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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : USACE018-44 DOD

FIRST ENVIRONMENT, INC.

10 Park Place, Bldg 1A, Suite 504

Butler, NJ - 07405

Phone No: 973-334-0003

ORDER ID : Q2815

ATTENTION : Al Smith

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q2815

Project ID : USACE018-44 DOD

Client : First Environment, Inc.

Lab Sample Number	Client Sample Number
Q2815-01	TW-705R-S
Q2815-02	TW-10PC-W
Q2815-03	TW-10P-E
Q2815-04	TW-10P-S
Q2815-05	TW-10P-W
Q2815-06	TW-10P-N
Q2815-07	TW-88H-E
Q2815-08	TW-88H-N
Q2815-09	TW-88H-W
Q2815-10	TW-88H-S
Q2815-11	TW-22M-W
Q2815-12	TW-22M-S
Q2815-13	TW-22M-E
Q2815-14	TW-22M-N
Q2815-15	TW-17M-E
Q2815-16	TW-17M-S
Q2815-17	TW-84SB-S
Q2815-18	TW-84SB-W
Q2815-19	DUP
Q2815-20	TW-11M-W
Q2815-21	TW-11M-E
Q2815-22	TW-11M-S
Q2815-23	TW-11M-N
Q2815-24	TB
Q2815-25	TW-11M-W
Q2815-26	FB

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: 8/22/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

First Environment, Inc.
Project Name: USACE018-44 DOD
Project # N/A
Order ID # Q2815
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
25 Water samples were received on 08/08/2025.

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 except for
TW-10P-N [Toluene-d8 - 84%],
TW-10P-NRE [4-Bromofluorobenzene - 117%],
TW-17M-S [4-Bromofluorobenzene - 116%],
TW-17M-SRE [4-Bromofluorobenzene - 118%],
TW-11M-E [1,2-Dichloroethane-d4 - 123%, 4-Bromofluorobenzene - 116%],
TW-11M-ERE [1,2-Dichloroethane-d4 - 119% and 4-Bromofluorobenzene - 117%]
Samples were reanalyzed to confirm the failure and reported.

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 VX047309.D met the requirements except for Methyl Acetate is failing high but no positive hit in associate sample therefore no corrective action taken.

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The Continuous Calibration File ID VX047400.D met the requirements except for Bromochloromethane is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

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

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

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_____

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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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2815 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 VX047309.D met the requirements except for Methyl Acetate is failing high but no positive hit in associate sample therefore no corrective action taken. The Continuous Calibration File ID VX047400.D met the requirements except for Bromochloromethane is failing high but no positive hit in associate sample therefore no corrective action taken.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries were met for all analysis except for TW-10P-N [Toluene-d8 - 84%], TW-10P-NRE [4-Bromofluorobenzene - 117%], TW-17M-S [4-Bromofluorobenzene - 116%], TW-17M-SRE [4-Bromofluorobenzene - 118%], TW-11M-E [1,2-Dichloroethane-d4 - 123%, 4-Bromofluorobenzene - 116%], TW-11M-ERE [1,2-Dichloroethane-d4 - 119% and 4-Bromofluorobenzene - 117%] Samples were reanalyzed to confirm the failure and reported.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓

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

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

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.

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

_____ _____

QA REVIEW Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2815

	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:** 08/22/2025

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LAB CHRONICLE

OrderID:	Q2815	**OrderDate:**	8/11/2025 10:33:09 AM
Client:	First Environment, Inc.	**Project:**	USACE018-44 DOD
Contact:	Al Smith	**Location:**	D41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2815-01	**TW-705R-S**	**Water**			**08/06/25**			**08/08/25**
			VOC-TCLVOA-10	8260-Low			08/18/25	
Q2815-02	**TW-10PC-W**	**Water**			**08/06/25**			**08/08/25**
			VOC-TCLVOA-10	8260-Low			08/18/25	
Q2815-03	**TW-10P-E**	**Water**			**08/06/25**			**08/08/25**
			VOC-TCLVOA-10	8260-Low			08/18/25	
Q2815-04	**TW-10P-S**	**Water**			**08/06/25**			**08/08/25**
			VOC-TCLVOA-10	8260-Low			08/18/25	
Q2815-05	**TW-10P-W**	**Water**			**08/06/25**			**08/08/25**
			VOC-TCLVOA-10	8260-Low			08/18/25	
Q2815-06	**TW-10P-N**	**Water**			**08/06/25**			**08/08/25**
			VOC-TCLVOA-10	8260-Low			08/13/25	
Q2815-06RE	**TW-10P-NRE**	**Water**			**08/06/25**			**08/08/25**
			VOC-TCLVOA-10	8260-Low			08/18/25	
Q2815-07	**TW-88H-E**	**Water**			**08/07/25**			**08/08/25**
			VOC-TCLVOA-10	8260-Low			08/13/25	
Q2815-08	**TW-88H-N**	**Water**			**08/07/25**			**08/08/25**
			VOC-TCLVOA-10	8260-Low			08/18/25	
Q2815-09	**TW-88H-W**	**Water**			**08/07/25**			**08/08/25**
			VOC-TCLVOA-10	8260-Low			08/18/25	
Q2815-10	**TW-88H-S**	**Water**			**08/07/25**			**08/08/25**
			VOC-TCLVOA-10	8260-Low			08/18/25	
Q2815-11	**TW-22M-W**	**Water**			**08/08/25**			**08/08/25**

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LAB CHRONICLE

			VOC-TCLVOA-10	8260-Low		08/19/25	
Q2815-12	**TW-22M-S**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/19/25	
Q2815-13	**TW-22M-E**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/18/25	
Q2815-14	**TW-22M-N**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/18/25	
Q2815-15	**TW-17M-E**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/18/25	
Q2815-16	**TW-17M-S**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/18/25	
Q2815-16RE	**TW-17M-SRE**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/19/25	
Q2815-17	**TW-84SB-S**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/18/25	
Q2815-18	**TW-84SB-W**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/19/25	
Q2815-19	**DUP**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/19/25	
Q2815-20	**TW-11M-W**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/19/25	
Q2815-21	**TW-11M-E**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/19/25	
Q2815-21RE	**TW-11M-ERE**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/20/25	
Q2815-22	**TW-11M-S**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/20/25	
Q2815-23	**TW-11M-N**	**Water**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low		08/19/25	

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LAB CHRONICLE

Q2815-24	**TB**	**Water**		**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low	08/19/25	
Q2815-26	**FB**	**Water**		**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260-Low	08/20/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2815

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Client ID:	**TW-705R-S**									
Q2815-01	TW-705R-S	Water	Acetone		4.40	J	1.50	3.80	5.00	ug/L
			Total Voc :		4.40					
			Total Concentration:		4.40					
Client ID:	**TW-10PC-W**									
Q2815-02	TW-10PC-W	Water	Acetone		4.20	J	1.50	3.80	5.00	ug/L
			Total Voc :		4.20					
			Total Concentration:		4.20					
Client ID:	**TW-10P-E**									
Q2815-03	TW-10P-E	Water	Acetone		7.70		1.50	3.80	5.00	ug/L
Q2815-03	TW-10P-E	Water	Carbon Disulfide		1.40		0.21	0.75	1.00	ug/L
			Total Voc :		9.10					
			Total Concentration:		9.10					
Client ID:	**TW-10P-S**									
Q2815-04	TW-10P-S	Water	Acetone		5.40		1.50	3.80	5.00	ug/L
			Total Voc :		5.40					
			Total Concentration:		5.40					
Client ID:	**TW-10P-W**									
Q2815-05	TW-10P-W	Water	Acetone		4.20	J	1.50	3.80	5.00	ug/L
			Total Voc :		4.20					
			Total Concentration:		4.20					
Client ID:	**TW-10P-N**									
Q2815-06	TW-10P-N	Water	Acetone		7.90		1.50	3.80	5.00	ug/L
Q2815-06	TW-10P-N	Water	Carbon Disulfide		0.45	J	0.21	0.75	1.00	ug/L
Q2815-06	TW-10P-N	Water	Methylene Chloride		0.51	J	0.28	0.50	1.00	ug/L
Q2815-06	TW-10P-N	Water	Chloroform		0.61	J	0.25	0.50	1.00	ug/L
			Total Voc :		9.47					
Q2815-06	TW-10P-N	Water	Sulfur dioxide	*	7.10	J	0		0	ug/L
			Total Tics :		7.10					
			Total Concentration:		16.6					
Client ID:	**TW-10P-NRE**									
Q2815-06RE	TW-10P-NRE	Water	Acetone		7.20		1.50	3.80	5.00	ug/L
			Total Voc :		7.20					
			Total Concentration:		7.20					
Client ID:	**TW-88H-E**									
Q2815-07	TW-88H-E	Water	Acetone		5.60		1.50	3.80	5.00	ug/L
Q2815-07	TW-88H-E	Water	Carbon Disulfide		0.29	J	0.21	0.75	1.00	ug/L
Q2815-07	TW-88H-E	Water	Methyl tert-butyl Ether		0.46	J	0.16	0.50	1.00	ug/L
			Total Voc :		6.35					
			Total Concentration:		6.35					
Client ID:	**TW-88H-N**									

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q2815

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Q2815-08	TW-88H-N	Water	Acetone		5.30		1.50	3.80	5.00	ug/L
Q2815-08	TW-88H-N	Water	Methyl tert-butyl Ether		13.5		0.16	0.50	1.00	ug/L
			Total Voc :			18.8				
			Total Concentration:			18.8				
Client ID:	**TW-88H-W**									
Q2815-09	TW-88H-W	Water	Acetone		3.70	J	1.50	3.80	5.00	ug/L
Q2815-09	TW-88H-W	Water	Methyl tert-butyl Ether		0.72	J	0.16	0.50	1.00	ug/L
Q2815-09	TW-88H-W	Water	Toluene		0.41	J	0.14	0.50	1.00	ug/L
			Total Voc :			4.83				
			Total Concentration:			4.83				
Client ID:	**TW-88H-S**									
Q2815-10	TW-88H-S	Water	Acetone		5.70		1.50	3.80	5.00	ug/L
Q2815-10	TW-88H-S	Water	Carbon Disulfide		0.41	J	0.21	0.75	1.00	ug/L
			Total Voc :			6.11				
			Total Concentration:			6.11				
Client ID:	**TW-22M-W**									
Q2815-11	TW-22M-W	Water	Acetone		4.40	J	1.50	3.80	5.00	ug/L
Q2815-11	TW-22M-W	Water	Carbon Disulfide		1.00		0.21	0.75	1.00	ug/L
			Total Voc :			5.40				
Q2815-11	TW-22M-W	Water	Sulfur dioxide	*	140	J	0		0	ug/L
			Total Tics :			140				
			Total Concentration:			145				
Client ID:	**TW-22M-S**									
Q2815-12	TW-22M-S	Water	Acetone		5.70		1.50	3.80	5.00	ug/L
Q2815-12	TW-22M-S	Water	Carbon Disulfide		1.20		0.21	0.75	1.00	ug/L
			Total Voc :			6.90				
Q2815-12	TW-22M-S	Water	Sulfur dioxide	*	11.6	J	0		0	ug/L
			Total Tics :			11.6				
			Total Concentration:			18.5				
Client ID:	**TW-22M-E**									
Q2815-13	TW-22M-E	Water	Acetone		4.00	J	1.50	3.80	5.00	ug/L
			Total Voc :			4.00				
			Total Concentration:			4.00				
Client ID:	**TW-22M-N**									
Q2815-14	TW-22M-N	Water	Acetone		6.10		1.50	3.80	5.00	ug/L
Q2815-14	TW-22M-N	Water	Carbon Disulfide		3.30		0.21	0.75	1.00	ug/L
			Total Voc :			9.40				
			Total Concentration:			9.40				
Client ID:	**TW-17M-E**									
Q2815-15	TW-17M-E	Water	Acetone		7.30		1.50	3.80	5.00	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q2815

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
			Total Voc :		7.30					
			Total Concentration:		7.30					
Client ID:	**TW-84SB-S**									
Q2815-17	TW-84SB-S	Water	Acetone		5.60		1.50	3.80	5.00	ug/L
			Total Voc :		5.60					
			Total Concentration:		5.60					
Client ID:	**TW-84SB-W**									
Q2815-18	TW-84SB-W	Water	Acetone		4.80	J	1.50	3.80	5.00	ug/L
			Total Voc :		4.80					
			Total Concentration:		4.80					
Client ID:	**DUP**									
Q2815-19	DUP	Water	Acetone		5.70		1.50	3.80	5.00	ug/L
			Total Voc :		5.70					
			Total Concentration:		5.70					
Client ID:	**TW-11M-W**									
Q2815-20	TW-11M-W	Water	Acetone		5.40		1.50	3.80	5.00	ug/L
Q2815-20	TW-11M-W	Water	Carbon Disulfide		0.69	J	0.21	0.75	1.00	ug/L
Q2815-20	TW-11M-W	Water	Trichloroethene		0.42	J	0.090	0.75	1.00	ug/L
			Total Voc :		6.51					
Q2815-20	TW-11M-W	Water	Sulfur dioxide	*	96.8	J	0		0	ug/L
			Total Tics :		96.8					
			Total Concentration:		103					
Client ID:	**TW-11M-E**									
Q2815-21	TW-11M-E	Water	Acetone		21.3		1.50	3.80	5.00	ug/L
Q2815-21	TW-11M-E	Water	Carbon Disulfide		0.57	J	0.21	0.75	1.00	ug/L
Q2815-21	TW-11M-E	Water	2-Butanone		3.60	J	0.98	2.50	5.00	ug/L
			Total Voc :		25.5					
Q2815-21	TW-11M-E	Water	Sulfur dioxide	*	13.3	J	0		0	ug/L
			Total Tics :		13.3					
			Total Concentration:		38.8					
Client ID:	**TW-11M-ERE**									
Q2815-21RE	TW-11M-ERE	Water	Acetone		15.8		1.50	3.80	5.00	ug/L
			Total Voc :		15.8					
			Total Concentration:		15.8					
Client ID:	**TW-11M-S**									
Q2815-22	TW-11M-S	Water	Acetone		5.00		1.50	3.80	5.00	ug/L
Q2815-22	TW-11M-S	Water	Carbon Disulfide		0.77	J	0.21	0.75	1.00	ug/L
			Total Voc :		5.77					
			Total Concentration:		5.77					
Client ID:	**TW-11M-N**									
Q2815-23	TW-11M-N	Water	Acetone		11.6		1.50	3.80	5.00	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q2815

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Q2815-23	TW-11M-N	Water	Carbon Disulfide		0.41	J	0.21	0.75	1.00	ug/L
Q2815-23	TW-11M-N	Water	m/p-Xylenes		0.39	J	0.24	1.00	2.00	ug/L
Q2815-23	TW-11M-N	Water	o-Xylene		0.53	J	0.12	0.50	1.00	ug/L
			Total Voc :		12.9					
Q2815-23	TW-11M-N	Water	Naphthalene, 1-methyl-	*	5.90	J	0		0	ug/L
Q2815-23	TW-11M-N	Water	Indane	*	26.1	J	0		0	ug/L
Q2815-23	TW-11M-N	Water	1,2,4-Trimethylbenzene	*	0.38	J	0.14		1.00	ug/L
			Total Tics :		32.4					
			Total Concentration:		45.3					

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q2815

Client: First Environment, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q2815-01	TW-705R-S	1,2-Dichloroethane-d4	50	53.8	108		81	118
		Dibromofluoromethane	50	50.5	101		80	119
		Toluene-d8	50	50.6	101		89	112
		4-Bromofluorobenzene	50	55.9	112		85	114
Q2815-02	TW-10PC-W	1,2-Dichloroethane-d4	50	54.7	109		81	118
		Dibromofluoromethane	50	50.5	101		80	119
		Toluene-d8	50	50.8	102		89	112
		4-Bromofluorobenzene	50	55.9	112		85	114
Q2815-03	TW-10P-E	1,2-Dichloroethane-d4	50	54.3	109		81	118
		Dibromofluoromethane	50	50.7	101		80	119
		Toluene-d8	50	50.5	101		89	112
		4-Bromofluorobenzene	50	55.7	111		85	114
Q2815-04	TW-10P-S	1,2-Dichloroethane-d4	50	54.3	109		81	118
		Dibromofluoromethane	50	50.9	102		80	119
		Toluene-d8	50	50.3	101		89	112
		4-Bromofluorobenzene	50	55.5	111		85	114
Q2815-05	TW-10P-W	1,2-Dichloroethane-d4	50	54.2	108		81	118
		Dibromofluoromethane	50	50.2	100		80	119
		Toluene-d8	50	50.4	101		89	112
		4-Bromofluorobenzene	50	55.0	110		85	114
Q2815-06	TW-10P-N	1,2-Dichloroethane-d4	50	53.8	108		81	118
		Dibromofluoromethane	50	51.0	102		80	119
		Toluene-d8	50	42.1	84	*	89	112
		4-Bromofluorobenzene	50	47.6	95		85	114
Q2815-06RE	TW-10P-NRE	1,2-Dichloroethane-d4	50	54.6	109		81	118
		Dibromofluoromethane	50	50.5	101		80	119
		Toluene-d8	50	50.5	101		89	112
		4-Bromofluorobenzene	50	58.3	117	*	85	114
Q2815-07	TW-88H-E	1,2-Dichloroethane-d4	50	57.9	116		81	118
		Dibromofluoromethane	50	55.4	111		80	119
		Toluene-d8	50	44.7	89		89	112
		4-Bromofluorobenzene	50	50.6	101		85	114
Q2815-08	TW-88H-N	1,2-Dichloroethane-d4	50	54.3	109		81	118
		Dibromofluoromethane	50	51.0	102		80	119
		Toluene-d8	50	50.7	101		89	112
		4-Bromofluorobenzene	50	57.0	114		85	114
Q2815-09	TW-88H-W	1,2-Dichloroethane-d4	50	54.6	109		81	118
		Dibromofluoromethane	50	50.9	102		80	119
		Toluene-d8	50	50.6	101		89	112
		4-Bromofluorobenzene	50	56.3	113		85	114
Q2815-10	TW-88H-S	1,2-Dichloroethane-d4	50	55.4	111		81	118
		Dibromofluoromethane	50	50.6	101		80	119
		Toluene-d8	50	50.4	101		89	112
		4-Bromofluorobenzene	50	55.9	112		85	114
Q2815-11	TW-22M-W	1,2-Dichloroethane-d4	50	53.5	107		81	118
		Dibromofluoromethane	50	49.0	98		80	119
		Toluene-d8	50	49.5	99		89	112
		4-Bromofluorobenzene	50	53.7	107		85	114
Q2815-12	TW-22M-S	1,2-Dichloroethane-d4	50	55.2	110		81	118
		Dibromofluoromethane	50	51.0	102		80	119

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Surrogate Summary

SDG No.: Q2815

Client: First Environment, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q2815-12	TW-22M-S	Toluene-d8	50	49.9	100		89	112
		4-Bromofluorobenzene	50	55.4	111		85	114
Q2815-13	TW-22M-E	1,2-Dichloroethane-d4	50	53.7	107		81	118
		Dibromofluoromethane	50	50.5	101		80	119
		Toluene-d8	50	50.1	100		89	112
		4-Bromofluorobenzene	50	54.3	109		85	114
Q2815-14	TW-22M-N	1,2-Dichloroethane-d4	50	57.2	114		81	118
		Dibromofluoromethane	50	49.4	99		80	119
		Toluene-d8	50	49.5	99		89	112
		4-Bromofluorobenzene	50	56.9	114		85	114
Q2815-15	TW-17M-E	1,2-Dichloroethane-d4	50	54.6	109		81	118
		Dibromofluoromethane	50	50.9	102		80	119
		Toluene-d8	50	49.7	99		89	112
		4-Bromofluorobenzene	50	55.1	110		85	114
Q2815-16	TW-17M-S	1,2-Dichloroethane-d4	50	53.3	106		81	118
		Dibromofluoromethane	50	52.1	104		80	119
		Toluene-d8	50	53.4	107		89	112
		4-Bromofluorobenzene	50	58.2	116	*	85	114
Q2815-16RE	TW-17M-SRE	1,2-Dichloroethane-d4	50	54.4	109		81	118
		Dibromofluoromethane	50	51.9	104		80	119
		Toluene-d8	50	53.0	106		89	112
		4-Bromofluorobenzene	50	59.0	118	*	85	114
Q2815-17	TW-84SB-S	1,2-Dichloroethane-d4	50	55.1	110		81	118
		Dibromofluoromethane	50	49.3	99		80	119
		Toluene-d8	50	49.3	99		89	112
		4-Bromofluorobenzene	50	55.1	110		85	114
Q2815-18	TW-84SB-W	1,2-Dichloroethane-d4	50	57.3	115		81	118
		Dibromofluoromethane	50	51.4	103		80	119
		Toluene-d8	50	51.1	102		89	112
		4-Bromofluorobenzene	50	56.1	112		85	114
Q2815-19	DUP	1,2-Dichloroethane-d4	50	57.3	115		81	118
		Dibromofluoromethane	50	50.5	101		80	119
		Toluene-d8	50	49.7	99		89	112
		4-Bromofluorobenzene	50	56.9	114		85	114
Q2815-20	TW-11M-W	1,2-Dichloroethane-d4	50	55.9	112		81	118
		Dibromofluoromethane	50	50.5	101		80	119
		Toluene-d8	50	49.7	99		89	112
		4-Bromofluorobenzene	50	55.7	111		85	114
Q2815-21	TW-11M-E	1,2-Dichloroethane-d4	50	61.7	123	*	81	118
		Dibromofluoromethane	50	52.8	106		80	119
		Toluene-d8	50	50.8	102		89	112
		4-Bromofluorobenzene	50	58.1	116	*	85	114
Q2815-21RE	TW-11M-ERE	1,2-Dichloroethane-d4	50	59.6	119	*	81	118
		Dibromofluoromethane	50	52.8	106		80	119
		Toluene-d8	50	51.9	104		89	112
		4-Bromofluorobenzene	50	58.5	117	*	85	114
Q2815-22	TW-11M-S	1,2-Dichloroethane-d4	50	54.9	110		81	118
		Dibromofluoromethane	50	51.1	102		80	119
		Toluene-d8	50	51.4	103		89	112
		4-Bromofluorobenzene	50	55.7	111		85	114

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Surrogate Summary

SDG No.: Q2815

Client: First Environment, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q2815-23	TW-11M-N	1,2-Dichloroethane-d4	50	58.7	117		81	118
		Dibromofluoromethane	50	51.1	102		80	119
		Toluene-d8	50	49.3	99		89	112
		4-Bromofluorobenzene	50	57.1	114		85	114
Q2815-24	TB	1,2-Dichloroethane-d4	50	55.0	110		81	118
		Dibromofluoromethane	50	50.8	102		80	119
		Toluene-d8	50	49.8	100		89	112
		4-Bromofluorobenzene	50	56.0	112		85	114
Q2815-26	FB	1,2-Dichloroethane-d4	50	56.0	112		81	118
		Dibromofluoromethane	50	50.8	102		80	119
		Toluene-d8	50	51.0	102		89	112
		4-Bromofluorobenzene	50	56.4	113		85	114
VX0813WBL01	VX0813WBL01	1,2-Dichloroethane-d4	50	57.9	116		81	118
		Dibromofluoromethane	50	56.7	113		80	119
		Toluene-d8	50	47.1	94		89	112
		4-Bromofluorobenzene	50	53.6	107		85	114
VX0813WBS01	VX0813WBS01	1,2-Dichloroethane-d4	50	54.7	109		81	118
		Dibromofluoromethane	50	55.7	111		80	119
		Toluene-d8	50	48.4	97		89	112
		4-Bromofluorobenzene	50	54.4	109		85	114
VX0818WBL01	VX0818WBL01	1,2-Dichloroethane-d4	50	54.0	108		81	118
		Dibromofluoromethane	50	50.9	102		80	119
		Toluene-d8	50	50.2	100		89	112
		4-Bromofluorobenzene	50	56.1	112		85	114
VX0818WBS01	VX0818WBS01	1,2-Dichloroethane-d4	50	49.7	99		81	118
		Dibromofluoromethane	50	51.4	103		80	119
		Toluene-d8	50	50.7	101		89	112
		4-Bromofluorobenzene	50	52.1	104		85	114
VX0818WBSD0	VX0818WBSD01	1,2-Dichloroethane-d4	50	51.8	104		81	118
		Dibromofluoromethane	50	51.7	103		80	119
		Toluene-d8	50	51.4	103		89	112
		4-Bromofluorobenzene	50	52.6	105		85	114
VX0819WBL01	VX0819WBL01	1,2-Dichloroethane-d4	50	57.3	114		81	118
		Dibromofluoromethane	50	50.9	102		80	119
		Toluene-d8	50	49.5	99		89	112
		4-Bromofluorobenzene	50	56.1	112		85	114
VX0819WBS01	VX0819WBS01	1,2-Dichloroethane-d4	50	54.3	109		81	118
		Dibromofluoromethane	50	52.1	104		80	119
		Toluene-d8	50	50.5	101		89	112
		4-Bromofluorobenzene	50	52.8	106		85	114
VX0820WBL01	VX0820WBL01	1,2-Dichloroethane-d4	50	57.9	116		81	118
		Dibromofluoromethane	50	51.3	103		80	119
		Toluene-d8	50	50.7	101		89	112
		4-Bromofluorobenzene	50	55.9	112		85	114
VX0820WBS01	VX0820WBS01	1,2-Dichloroethane-d4	50	49.0	98		81	118
		Dibromofluoromethane	50	49.9	100		80	119
		Toluene-d8	50	49.2	98		89	112
		4-Bromofluorobenzene	50	50.2	100		85	114

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2815 **Analytical Method:** SW8260-Low

Client: First Environment, Inc. **Datafile :** VX047312.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0813WBS01	Dichlorodifluoromethane	20	18.9	ug/L	95			32	152	
	Chloromethane	20	19.3	ug/L	97			50	139	
	Vinyl chloride	20	20.5	ug/L	103			58	137	
	Bromomethane	20	19.2	ug/L	96			53	141	
	Chloroethane	20	19.2	ug/L	96			60	138	
	Trichlorofluoromethane	20	19.4	ug/L	97			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.7	ug/L	94			70	136	
	1,1-Dichloroethene	20	20.0	ug/L	100			71	131	
	Acetone	100	110	ug/L	110			39	160	
	Carbon disulfide	20	18.9	ug/L	95			64	133	
	Methyl tert-butyl Ether	20	22.2	ug/L	111			71	124	
	Methyl Acetate	20	25.3	ug/L	127			56	136	
	Methylene Chloride	20	22.0	ug/L	110			74	124	
	trans-1,2-Dichloroethene	20	20.5	ug/L	103			75	124	
	1,1-Dichloroethane	20	21.1	ug/L	106			77	125	
	Cyclohexane	20	17.8	ug/L	89			71	130	
	2-Butanone	100	110	ug/L	110			56	143	
	Carbon Tetrachloride	20	19.2	ug/L	96			72	136	
	cis-1,2-Dichloroethene	20	20.9	ug/L	104			78	123	
	Bromochloromethane	20	23.8	ug/L	119			78	123	
	Chloroform	20	21.5	ug/L	108			79	124	
	1,1,1-Trichloroethane	20	20.4	ug/L	102			74	131	
	Methylcyclohexane	20	16.9	ug/L	85			72	132	
	Benzene	20	20.7	ug/L	104			79	120	
	1,2-Dichloroethane	20	22.0	ug/L	110			73	128	
	Trichloroethene	20	19.6	ug/L	98			79	123	
	1,2-Dichloropropane	20	20.7	ug/L	104			78	122	
	Bromodichloromethane	20	21.2	ug/L	106			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	20.6	ug/L	103			80	121	
	t-1,3-Dichloropropene	20	19.7	ug/L	99			73	127	
	cis-1,3-Dichloropropene	20	20.4	ug/L	102			75	124	
	1,1,2-Trichloroethane	20	22.2	ug/L	111			80	119	
	2-Hexanone	100	120	ug/L	120			57	139	
	Dibromochloromethane	20	21.8	ug/L	109			74	126	
	1,2-Dibromoethane	20	22.0	ug/L	110			77	121	
	Tetrachloroethene	20	19.3	ug/L	97			74	129	
	Chlorobenzene	20	20.1	ug/L	101			82	118	
	Ethyl Benzene	20	19.6	ug/L	98			79	121	
	m/p-Xylenes	40	40.4	ug/L	101			80	121	
	o-Xylene	20	20.1	ug/L	101			78	122	
	Styrene	20	20.7	ug/L	104			78	123	
	Bromoform	20	21.1	ug/L	106			66	130	
	Isopropylbenzene	20	18.9	ug/L	95			72	131	
	1,1,2,2-Tetrachloroethane	20	21.3	ug/L	106			71	121	
	1,3-Dichlorobenzene	20	20.0	ug/L	100			80	119	
	1,4-Dichlorobenzene	20	19.9	ug/L	100			79	118	
	1,2-Dichlorobenzene	20	19.8	ug/L	99			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q2815**	**Analytical Method:**	**SW8260-Low**
Client:	**First Environment, Inc.**	**Datafile :**	VX047312.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0813WBS01	1,2-Dibromo-3-Chloropropane	20	21.1	ug/L	106			62	128	
	1,2,4-Trichlorobenzene	20	19.4	ug/L	97			69	130	
	1,2,3-Trichlorobenzene	20	18.6	ug/L	93			69	129	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2815 **Analytical Method:** SW8260-Low

Client: First Environment, Inc. **Datafile :** VX047374.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0818WBS01	Dichlorodifluoromethane	20	20.5	ug/L	103			32	152	
	Chloromethane	20	22.6	ug/L	113			50	139	
	Vinyl chloride	20	19.1	ug/L	96			58	137	
	Bromomethane	20	13.9	ug/L	70			53	141	
	Chloroethane	20	26.7	ug/L	134			60	138	
	Trichlorofluoromethane	20	19.7	ug/L	99			65	141	
	1,1,2-Trichlorotrifluoroethane	20	20.3	ug/L	102			70	136	
	1,1-Dichloroethene	20	19.9	ug/L	100			71	131	
	Acetone	100	97.8	ug/L	98			39	160	
	Carbon disulfide	20	21.1	ug/L	106			64	133	
	Methyl tert-butyl Ether	20	19.1	ug/L	96			71	124	
	Methyl Acetate	20	20.1	ug/L	101			56	136	
	Methylene Chloride	20	19.2	ug/L	96			74	124	
	trans-1,2-Dichloroethene	20	19.2	ug/L	96			75	124	
	1,1-Dichloroethane	20	19.4	ug/L	97			77	125	
	Cyclohexane	20	19.9	ug/L	100			71	130	
	2-Butanone	100	99.2	ug/L	99			56	143	
	Carbon Tetrachloride	20	20.4	ug/L	102			72	136	
	cis-1,2-Dichloroethene	20	19.1	ug/L	96			78	123	
	Bromochloromethane	20	19.3	ug/L	97			78	123	
	Chloroform	20	20.0	ug/L	100			79	124	
	1,1,1-Trichloroethane	20	19.7	ug/L	99			74	131	
	Methylcyclohexane	20	20.0	ug/L	100			72	132	
	Benzene	20	20.1	ug/L	101			79	120	
	1,2-Dichloroethane	20	20.6	ug/L	103			73	128	
	Trichloroethene	20	19.8	ug/L	99			79	123	
	1,2-Dichloropropane	20	19.8	ug/L	99			78	122	
	Bromodichloromethane	20	20.3	ug/L	102			79	125	
	4-Methyl-2-Pentanone	100	100	ug/L	100			67	130	
	Toluene	20	20.5	ug/L	103			80	121	
	t-1,3-Dichloropropene	20	19.7	ug/L	99			73	127	
	cis-1,3-Dichloropropene	20	19.5	ug/L	98			75	124	
	1,1,2-Trichloroethane	20	20.4	ug/L	102			80	119	
	2-Hexanone	100	100	ug/L	100			57	139	
	Dibromochloromethane	20	20.4	ug/L	102			74	126	
	1,2-Dibromoethane	20	19.9	ug/L	100			77	121	
	Tetrachloroethene	20	20.0	ug/L	100			74	129	
	Chlorobenzene	20	19.8	ug/L	99			82	118	
	Ethyl Benzene	20	19.9	ug/L	100			79	121	
	m/p-Xylenes	40	40.7	ug/L	102			80	121	
	o-Xylene	20	20.0	ug/L	100			78	122	
	Styrene	20	20.2	ug/L	101			78	123	
	Bromoform	20	20.4	ug/L	102			66	130	
	Isopropylbenzene	20	19.8	ug/L	99			72	131	
	1,1,2,2-Tetrachloroethane	20	19.4	ug/L	97			71	121	
	1,3-Dichlorobenzene	20	19.5	ug/L	98			80	119	
	1,4-Dichlorobenzene	20	19.0	ug/L	95			79	118	
	1,2-Dichlorobenzene	20	19.3	ug/L	97			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2815 **Analytical Method:** SW8260-Low

Client: First Environment, Inc. **Datafile :** VX047374.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0818WBS01	1,2-Dibromo-3-Chloropropane	20	18.8	ug/L	94			62	128	
	1,2,4-Trichlorobenzene	20	19.0	ug/L	95			69	130	
	1,2,3-Trichlorobenzene	20	19.0	ug/L	95			69	129	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q2815**	**Analytical Method:**	**SW8260-Low**
Client:	**First Environment, Inc.**	**Datafile :**	VX047375.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0818WBSD01	Dichlorodifluoromethane	20	20.1	ug/L	101	2		32	152	20
	Chloromethane	20	22.9	ug/L	115	2		50	139	20
	Vinyl chloride	20	18.9	ug/L	95	1		58	137	20
	Bromomethane	20	14.9	ug/L	75	7		53	141	20
	Chloroethane	20	23.2	ug/L	116	14		60	138	20
	Trichlorofluoromethane	20	19.3	ug/L	97	2		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/L	101	1		70	136	20
	1,1-Dichloroethene	20	19.1	ug/L	96	4		71	131	20
	Acetone	100	100	ug/L	100	2		39	160	20
	Carbon disulfide	20	21.4	ug/L	107	1		64	133	20
	Methyl tert-butyl Ether	20	20.4	ug/L	102	6		71	124	20
	Methyl Acetate	20	22.4	ug/L	112	10		56	136	20
	Methylene Chloride	20	19.4	ug/L	97	1		74	124	20
	trans-1,2-Dichloroethene	20	19.1	ug/L	96	0		75	124	20
	1,1-Dichloroethane	20	19.8	ug/L	99	2		77	125	20
	Cyclohexane	20	19.3	ug/L	97	3		71	130	20
	2-Butanone	100	100	ug/L	100	1		56	143	20
	Carbon Tetrachloride	20	20.1	ug/L	101	1		72	136	20
	cis-1,2-Dichloroethene	20	19.8	ug/L	99	3		78	123	20
	Bromochloromethane	20	20.0	ug/L	100	3		78	123	20
	Chloroform	20	20.2	ug/L	101	1		79	124	20
	1,1,1-Trichloroethane	20	19.8	ug/L	99	0		74	131	20
	Methylcyclohexane	20	19.7	ug/L	99	1		72	132	20
	Benzene	20	20.5	ug/L	103	2		79	120	20
	1,2-Dichloroethane	20	20.9	ug/L	104	1		73	128	20
	Trichloroethene	20	19.8	ug/L	99	0		79	123	20
	1,2-Dichloropropane	20	20.5	ug/L	103	4		78	122	20
	Bromodichloromethane	20	20.2	ug/L	101	1		79	125	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		67	130	20
	Toluene	20	21.0	ug/L	105	2		80	121	20
	t-1,3-Dichloropropene	20	20.8	ug/L	104	5		73	127	20
	cis-1,3-Dichloropropene	20	20.2	ug/L	101	3		75	124	20
	1,1,2-Trichloroethane	20	20.8	ug/L	104	2		80	119	20
	2-Hexanone	100	110	ug/L	110	10		57	139	20
	Dibromochloromethane	20	21.0	ug/L	105	3		74	126	20
	1,2-Dibromoethane	20	21.0	ug/L	105	5		77	121	20
	Tetrachloroethene	20	20.0	ug/L	100	0		74	129	20
	Chlorobenzene	20	19.7	ug/L	99	0		82	118	20
	Ethyl Benzene	20	19.7	ug/L	99	1		79	121	20
	m/p-Xylenes	40	40.5	ug/L	101	1		80	121	20
	o-Xylene	20	19.8	ug/L	99	1		78	122	20
	Styrene	20	20.1	ug/L	101	0		78	123	20
	Bromoform	20	20.7	ug/L	104	2		66	130	20
	Isopropylbenzene	20	19.2	ug/L	96	3		72	131	20
	1,1,2,2-Tetrachloroethane	20	19.9	ug/L	100	3		71	121	20
	1,3-Dichlorobenzene	20	19.3	ug/L	97	1		80	119	20
	1,4-Dichlorobenzene	20	19.0	ug/L	95	0		79	118	20
	1,2-Dichlorobenzene	20	19.4	ug/L	97	0		80	119	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q2815**	**Analytical Method:**	**SW8260-Low**
Client:	**First Environment, Inc.**	**Datafile :**	VX047375.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0818WBSD01	1,2-Dibromo-3-Chloropropane	20	20.0	ug/L	100	6		62	128	20
	1,2,4-Trichlorobenzene	20	18.8	ug/L	94	1		69	130	20
	1,2,3-Trichlorobenzene	20	19.2	ug/L	96	1		69	129	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2815 **Analytical Method:** SW8260-Low

Client: First Environment, Inc. **Datafile :** VX047403.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0819WBS01	Dichlorodifluoromethane	20	16.6	ug/L	83			32	152	
	Chloromethane	20	17.2	ug/L	86			50	139	
	Vinyl chloride	20	16.6	ug/L	83			58	137	
	Bromomethane	20	18.2	ug/L	91			53	141	
	Chloroethane	20	17.5	ug/L	88			60	138	
	Trichlorofluoromethane	20	16.4	ug/L	82			65	141	
	1,1,2-Trichlorotrifluoroethane	20	16.5	ug/L	83			70	136	
	1,1-Dichloroethene	20	17.3	ug/L	86			71	131	
	Acetone	100	110	ug/L	110			39	160	
	Carbon disulfide	20	16.4	ug/L	82			64	133	
	Methyl tert-butyl Ether	20	19.2	ug/L	96			71	124	
	Methyl Acetate	20	19.3	ug/L	97			56	136	
	Methylene Chloride	20	19.0	ug/L	95			74	124	
	trans-1,2-Dichloroethene	20	17.7	ug/L	89			75	124	
	1,1-Dichloroethane	20	18.6	ug/L	93			77	125	
	Cyclohexane	20	16.7	ug/L	84			71	130	
	2-Butanone	100	110	ug/L	110			56	143	
	Carbon Tetrachloride	20	16.9	ug/L	85			72	136	
	cis-1,2-Dichloroethene	20	18.5	ug/L	93			78	123	
	Bromochloromethane	20	22.9	ug/L	115			78	123	
	Chloroform	20	18.9	ug/L	95			79	124	
	1,1,1-Trichloroethane	20	17.9	ug/L	90			74	131	
	Methylcyclohexane	20	15.2	ug/L	76			72	132	
	Benzene	20	18.0	ug/L	90			79	120	
	1,2-Dichloroethane	20	18.7	ug/L	94			73	128	
	Trichloroethene	20	17.2	ug/L	86			79	123	
	1,2-Dichloropropane	20	18.3	ug/L	92			78	122	
	Bromodichloromethane	20	18.3	ug/L	92			79	125	
	4-Methyl-2-Pentanone	100	95.7	ug/L	96			67	130	
	Toluene	20	18.1	ug/L	91			80	121	
	t-1,3-Dichloropropene	20	18.7	ug/L	94			73	127	
	cis-1,3-Dichloropropene	20	18.6	ug/L	93			75	124	
	1,1,2-Trichloroethane	20	18.8	ug/L	94			80	119	
	2-Hexanone	100	97.3	ug/L	97			57	139	
	Dibromochloromethane	20	18.8	ug/L	94			74	126	
	1,2-Dibromoethane	20	18.7	ug/L	94			77	121	
	Tetrachloroethene	20	16.7	ug/L	84			74	129	
	Chlorobenzene	20	17.6	ug/L	88			82	118	
	Ethyl Benzene	20	17.1	ug/L	86			79	121	
	m/p-Xylenes	40	35.1	ug/L	88			80	121	
	o-Xylene	20	17.6	ug/L	88			78	122	
	Styrene	20	18.3	ug/L	92			78	123	
	Bromoform	20	17.9	ug/L	90			66	130	
	Isopropylbenzene	20	16.6	ug/L	83			72	131	
	1,1,2,2-Tetrachloroethane	20	18.0	ug/L	90			71	121	
	1,3-Dichlorobenzene	20	17.2	ug/L	86			80	119	
	1,4-Dichlorobenzene	20	17.1	ug/L	86			79	118	
	1,2-Dichlorobenzene	20	17.5	ug/L	88			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q2815**	**Analytical Method:**	**SW8260-Low**
Client:	**First Environment, Inc.**	**Datafile :**	VX047403.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0819WBS01	1,2-Dibromo-3-Chloropropane	20	16.8	ug/L	84			62	128	
	1,2,4-Trichlorobenzene	20	16.6	ug/L	83			69	130	
	1,2,3-Trichlorobenzene	20	17.1	ug/L	86			69	129	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2815 **Analytical Method:** SW8260-Low

Client: First Environment, Inc. **Datafile :** VX047430.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0820WBS01	Dichlorodifluoromethane	20	17.2	ug/L	86			32	152	
	Chloromethane	20	16.6	ug/L	83			50	139	
	Vinyl chloride	20	16.1	ug/L	81			58	137	
	Bromomethane	20	16.7	ug/L	84			53	141	
	Chloroethane	20	15.8	ug/L	79			60	138	
	Trichlorofluoromethane	20	17.1	ug/L	86			65	141	
	1,1,2-Trichlorotrifluoroethane	20	17.8	ug/L	89			70	136	
	1,1-Dichloroethene	20	16.8	ug/L	84			71	131	
	Acetone	100	89.6	ug/L	90			39	160	
	Carbon disulfide	20	15.5	ug/L	78			64	133	
	Methyl tert-butyl Ether	20	17.0	ug/L	85			71	124	
	Methyl Acetate	20	18.7	ug/L	94			56	136	
	Methylene Chloride	20	17.2	ug/L	86			74	124	
	trans-1,2-Dichloroethene	20	16.7	ug/L	84			75	124	
	1,1-Dichloroethane	20	17.2	ug/L	86			77	125	
	Cyclohexane	20	17.0	ug/L	85			71	130	
	2-Butanone	100	93.1	ug/L	93			56	143	
	Carbon Tetrachloride	20	17.5	ug/L	88			72	136	
	cis-1,2-Dichloroethene	20	17.1	ug/L	86			78	123	
	Bromochloromethane	20	19.9	ug/L	100			78	123	
	Chloroform	20	17.4	ug/L	87			79	124	
	1,1,1-Trichloroethane	20	17.2	ug/L	86			74	131	
	Methylcyclohexane	20	17.1	ug/L	86			72	132	
	Benzene	20	17.6	ug/L	88			79	120	
	1,2-Dichloroethane	20	17.6	ug/L	88			73	128	
	Trichloroethene	20	17.2	ug/L	86			79	123	
	1,2-Dichloropropane	20	17.3	ug/L	86			78	122	
	Bromodichloromethane	20	17.5	ug/L	88			79	125	
	4-Methyl-2-Pentanone	100	93.5	ug/L	94			67	130	
	Toluene	20	18.0	ug/L	90			80	121	
	t-1,3-Dichloropropene	20	17.6	ug/L	88			73	127	
	cis-1,3-Dichloropropene	20	17.4	ug/L	87			75	124	
	1,1,2-Trichloroethane	20	18.1	ug/L	91			80	119	
	2-Hexanone	100	91.6	ug/L	92			57	139	
	Dibromochloromethane	20	17.7	ug/L	89			74	126	
	1,2-Dibromoethane	20	17.4	ug/L	87			77	121	
	Tetrachloroethene	20	17.2	ug/L	86			74	129	
	Chlorobenzene	20	17.3	ug/L	86			82	118	
	Ethyl Benzene	20	17.6	ug/L	88			79	121	
	m/p-Xylenes	40	35.8	ug/L	90			80	121	
	o-Xylene	20	17.9	ug/L	90			78	122	
	Styrene	20	18.0	ug/L	90			78	123	
	Bromoform	20	17.6	ug/L	88			66	130	
	Isopropylbenzene	20	17.3	ug/L	86			72	131	
	1,1,2,2-Tetrachloroethane	20	17.6	ug/L	88			71	121	
	1,3-Dichlorobenzene	20	16.9	ug/L	85			80	119	
	1,4-Dichlorobenzene	20	17.0	ug/L	85			79	118	
	1,2-Dichlorobenzene	20	17.2	ug/L	86			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q2815**	**Analytical Method:**	**SW8260-Low**
Client:	**First Environment, Inc.**	**Datafile :**	VX047430.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0820WBS01	1,2-Dibromo-3-Chloropropane	20	17.5	ug/L	88			62	128	
	1,2,4-Trichlorobenzene	20	16.3	ug/L	81			69	130	
	1,2,3-Trichlorobenzene	20	16.9	ug/L	85			69	129	

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VOLATILE METHOD BLANK SUMMARY

Client ID: VX0813WBL01

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2815

Lab File ID: VX047311.D Lab Sample ID: VX0813WBL01

Date Analyzed: 08/13/2025 Time Analyzed: 11:02

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
VX0813WBS01	VX0813WBS01	VX047312.D	08/13/2025
TW-10P-N	Q2815-06	VX047329.D	08/13/2025
TW-88H-E	Q2815-07	VX047330.D	08/13/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VX0818WBL01

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2815

Lab File ID: VX047373.D | Lab Sample ID: VX0818WBL01

Date Analyzed: 08/18/2025 | Time Analyzed: 11:50

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
VX0818WBS01	VX0818WBS01	VX047374.D	08/18/2025
VX0818WBSD01	VX0818WBSD01	VX047375.D	08/18/2025
TW-705R-S	Q2815-01	VX047377.D	08/18/2025
TW-10PC-W	Q2815-02	VX047378.D	08/18/2025
TW-10P-E	Q2815-03	VX047379.D	08/18/2025
TW-10P-S	Q2815-04	VX047380.D	08/18/2025
TW-10P-W	Q2815-05	VX047381.D	08/18/2025
TW-10P-NRE	Q2815-06RE	VX047382.D	08/18/2025
TW-88H-N	Q2815-08	VX047383.D	08/18/2025
TW-88H-W	Q2815-09	VX047384.D	08/18/2025
TW-88H-S	Q2815-10	VX047385.D	08/18/2025
TW-22M-E	Q2815-13	VX047388.D	08/18/2025
TW-22M-N	Q2815-14	VX047389.D	08/18/2025
TW-17M-E	Q2815-15	VX047390.D	08/18/2025
TW-17M-S	Q2815-16	VX047391.D	08/18/2025
TW-84SB-S	Q2815-17	VX047392.D	08/18/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VX0819WBL01

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2815

Lab File ID: VX047402.D Lab Sample ID: VX0819WBL01

Date Analyzed: 08/19/2025 Time Analyzed: 10:55

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
VX0819WBS01	VX0819WBS01	VX047403.D	08/19/2025
TW-22M-W	Q2815-11	VX047404.D	08/19/2025
TW-22M-S	Q2815-12	VX047406.D	08/19/2025
TW-17M-SRE	Q2815-16RE	VX047407.D	08/19/2025
TB	Q2815-24	VX047408.D	08/19/2025
TW-11M-W	Q2815-20	VX047412.D	08/19/2025
TW-11M-E	Q2815-21	VX047413.D	08/19/2025
TW-11M-N	Q2815-23	VX047415.D	08/19/2025
TW-84SB-W	Q2815-18	VX047419.D	08/19/2025
DUP	Q2815-19	VX047420.D	08/19/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VX0820WBL01

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2815

Lab File ID: VX047429.D Lab Sample ID: VX0820WBL01

Date Analyzed: 08/20/2025 Time Analyzed: 10:07

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
VX0820WBS01	VX0820WBS01	VX047430.D	08/20/2025
TW-11M-ERE	Q2815-21RE	VX047432.D	08/20/2025
TW-11M-S	Q2815-22	VX047433.D	08/20/2025
FB	Q2815-26	VX047434.D	08/20/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2815
Lab File ID: VX047054.D
BFB Injection Date: 07/21/2025
Instrument ID: MSVOA_X
BFB Injection Time: 08:53
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	19.4
75	30.0 - 60.0% of mass 95	52.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	72.5
175	5.0 - 9.0% of mass 174	5.3 (7.3) 1
176	95.0 - 101.0% of mass 174	69.5 (95.9) 1
177	5.0 - 9.0% of mass 176	5 (7.2) 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	VX047055.D	07/21/2025	09:47
VSTDICC005	VSTDICC005	VX047056.D	07/21/2025	10:08
VSTDICC020	VSTDICC020	VX047057.D	07/21/2025	10:29
VSTDICCC050	VSTDICCC050	VX047058.D	07/21/2025	10:50
VSTDICC100	VSTDICC100	VX047059.D	07/21/2025	11:11
VSTDICC150	VSTDICC150	VX047060.D	07/21/2025	11:32

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2815
Lab File ID: VX047308.D
BFB Injection Date: 08/13/2025
Instrument ID: MSVOA_X
BFB Injection Time: 08:30
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	19.3
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	6.5
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	72.3
175	5.0 - 9.0% of mass 174	5.5 (7.6) 1
176	95.0 - 101.0% of mass 174	71.1 (98.4) 1
177	5.0 - 9.0% of mass 176	4.6 (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
VSTDCCC050	VSTDCCC050	VX047309.D	08/13/2025	09:44
VX0813WBL01	VX0813WBL01	VX047311.D	08/13/2025	11:02
VX0813WBS01	VX0813WBS01	VX047312.D	08/13/2025	11:24
TW-10P-N	Q2815-06	VX047329.D	08/13/2025	17:40
TW-88H-E	Q2815-07	VX047330.D	08/13/2025	18:02
VSTDCCC050EC	VSTDCCC050	VX047334.D	08/13/2025	19:50

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2815
Lab File ID: VX047347.D
BFB Injection Date: 08/15/2025
Instrument ID: MSVOA_X
BFB Injection Time: 08:28
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	19.3
75	30.0 - 60.0% of mass 95	51.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	74.3
175	5.0 - 9.0% of mass 174	6.1 (8.2) 1
176	95.0 - 101.0% of mass 174	71.9 (96.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.2) 2

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

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VX047349.D	08/15/2025	09:40
VSTDICC020	VSTDICC020	VX047350.D	08/15/2025	10:01
VSTDICCC050	VSTDICCC050	VX047351.D	08/15/2025	10:22
VSTDICC100	VSTDICC100	VX047352.D	08/15/2025	10:43
VSTDICC150	VSTDICC150	VX047353.D	08/15/2025	11:05
VSTDICC001	VSTDICC001	VX047356.D	08/15/2025	12:30

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2815
Lab File ID: VX047370.D
BFB Injection Date: 08/18/2025
Instrument ID: MSVOA_X
BFB Injection Time: 09:32
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	19.4
75	30.0 - 60.0% of mass 95	52.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	73.3
175	5.0 - 9.0% of mass 174	5.4 (7.4) 1
176	95.0 - 101.0% of mass 174	70.6 (96.2) 1
177	5.0 - 9.0% of mass 176	4.4 (6.3) 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	VX047371.D	08/18/2025	10:00
VX0818WBL01	VX0818WBL01	VX047373.D	08/18/2025	11:50
VX0818WBS01	VX0818WBS01	VX047374.D	08/18/2025	12:17
VX0818WBSD01	VX0818WBSD01	VX047375.D	08/18/2025	12:44
TW-705R-S	Q2815-01	VX047377.D	08/18/2025	13:27
TW-10PC-W	Q2815-02	VX047378.D	08/18/2025	13:48
TW-10P-E	Q2815-03	VX047379.D	08/18/2025	14:10
TW-10P-S	Q2815-04	VX047380.D	08/18/2025	14:31
TW-10P-W	Q2815-05	VX047381.D	08/18/2025	14:53
TW-10P-NRE	Q2815-06RE	VX047382.D	08/18/2025	15:14
TW-88H-N	Q2815-08	VX047383.D	08/18/2025	15:35
TW-88H-W	Q2815-09	VX047384.D	08/18/2025	15:57
TW-88H-S	Q2815-10	VX047385.D	08/18/2025	16:18
TW-22M-E	Q2815-13	VX047388.D	08/18/2025	17:22
TW-22M-N	Q2815-14	VX047389.D	08/18/2025	17:44
TW-17M-E	Q2815-15	VX047390.D	08/18/2025	18:05
TW-17M-S	Q2815-16	VX047391.D	08/18/2025	18:27
TW-84SB-S	Q2815-17	VX047392.D	08/18/2025	18:48

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2815
Lab File ID: VX047370.D
BFB Injection Date: 08/18/2025
Instrument ID: MSVOA_X
BFB Injection Time: 09:32
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	19.4
75	30.0 - 60.0% of mass 95	52.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	73.3
175	5.0 - 9.0% of mass 174	5.4 (7.4) 1
176	95.0 - 101.0% of mass 174	70.6 (96.2) 1
177	5.0 - 9.0% of mass 176	4.4 (6.3) 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
VSTDCCC050EC	VSTDCCC050	VX047398.D	08/18/2025	20:57

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:	Alliance	Contract:	FIRS02
Lab Code:	ACE	SDG NO.:	Q2815
Lab File ID:	VX047399.D	BFB Injection Date:	08/19/2025
Instrument ID:	MSVOA_X	BFB Injection Time:	08:38
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
75	30.0 - 60.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	72.1
175	5.0 - 9.0% of mass 174	5.3 (7.4) 1
176	95.0 - 101.0% of mass 174	70.3 (97.6) 1
177	5.0 - 9.0% of mass 176	5 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047400.D	08/19/2025	09:37
VX0819WBL01	VX0819WBL01	VX047402.D	08/19/2025	10:55
VX0819WBS01	VX0819WBS01	VX047403.D	08/19/2025	11:55
TW-22M-W	Q2815-11	VX047404.D	08/19/2025	12:16
TW-22M-S	Q2815-12	VX047406.D	08/19/2025	12:59
TW-17M-SRE	Q2815-16RE	VX047407.D	08/19/2025	13:20
TB	Q2815-24	VX047408.D	08/19/2025	13:41
TW-11M-W	Q2815-20	VX047412.D	08/19/2025	15:11
TW-11M-E	Q2815-21	VX047413.D	08/19/2025	15:32
TW-11M-N	Q2815-23	VX047415.D	08/19/2025	16:14
TW-84SB-W	Q2815-18	VX047419.D	08/19/2025	17:39
DUP	Q2815-19	VX047420.D	08/19/2025	18:00
VSTDCCC050EC	VSTDCCC050	VX047425.D	08/19/2025	19:47

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2815
Lab File ID: VX047426.D
BFB Injection Date: 08/20/2025
Instrument ID: MSVOA_X
BFB Injection Time: 07:50
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	19.4
75	30.0 - 60.0% of mass 95	52.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	75.4
175	5.0 - 9.0% of mass 174	6 (7.9) 1
176	95.0 - 101.0% of mass 174	72.1 (95.6) 1
177	5.0 - 9.0% of mass 176	5 (6.9) 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	VX047427.D	08/20/2025	09:25
VX0820WBL01	VX0820WBL01	VX047429.D	08/20/2025	10:07
VX0820WBS01	VX0820WBS01	VX047430.D	08/20/2025	10:35
TW-11M-ERE	Q2815-21RE	VX047432.D	08/20/2025	11:28
TW-11M-S	Q2815-22	VX047433.D	08/20/2025	11:49
FB	Q2815-26	VX047434.D	08/20/2025	12:11
VSTDCCC050EC	VSTDCCC050	VX047453.D	08/20/2025	19:01

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2815

Lab File ID: VX047309.D Date Analyzed: 08/13/2025

Instrument ID: MSVOA_X Time Analyzed: 09:44

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	202458	5.56	343367	6.76	311895	10.05
UPPER LIMIT	404916	6.056	686734	7.263	623790	10.549
LOWER LIMIT	101229	5.056	171684	6.263	155948	9.549
EPA SAMPLE NO.						
TW-10P-N	208024	5.57	379571	6.78	354515	10.06
TW-88H-E	226623	5.57	419826	6.78	390050	10.06
VX0813WBL01	202155	5.56	360108	6.76	331541	10.06
VX0813WBS01	201153	5.57	351465	6.77	321390	10.06

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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2815

Lab File ID: VX047309.D Date Analyzed: 08/13/2025

Instrument ID: MSVOA_X Time Analyzed: 09:44

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

	IS4 AREA #	RT #				
12 HOUR STD	156059	12.018				
UPPER LIMIT	312118	12.518				
LOWER LIMIT	78029.5	11.518				
EPA SAMPLE NO.						
TW-10P-N	179591	12.02				
TW-88H-E	198183	12.02				
VX0813WBL01	172532	12.02				
VX0813WBS01	166290	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2815

Lab File ID: VX047371.D Date Analyzed: 08/18/2025

Instrument ID: MSVOA_X Time Analyzed: 10:00

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	269622	5.56	444434	6.76	389564	10.06
UPPER LIMIT	539244	6.056	888868	7.263	779128	10.555
LOWER LIMIT	134811	5.056	222217	6.263	194782	9.555
EPA SAMPLE NO.						
TW-705R-S	311120	5.57	608136	6.77	595081	10.06
TW-10PC-W	302793	5.57	599218	6.77	594774	10.06
TW-10P-E	308366	5.57	605898	6.77	599545	10.06
TW-10P-S	309908	5.56	607870	6.77	591077	10.06
TW-10P-W	309685	5.57	613603	6.77	600484	10.06
TW-10P-NRE	232145	5.56	447155	6.77	455584	10.06
TW-88H-N	210172	5.56	408314	6.77	407032	10.06
TW-88H-W	290353	5.57	574943	6.77	568154	10.06
TW-88H-S	302438	5.57	598959	6.77	585621	10.06
TW-22M-E	277386	5.57	540916	6.77	526432	10.06
TW-22M-N	216971	5.56	436090	6.77	439636	10.06
TW-17M-E	249880	5.57	486066	6.77	487332	10.06
TW-17M-S	266934	5.57	513263	6.77	504355	10.06
TW-84SB-S	215102	5.57	425527	6.77	427339	10.06
VX0818WBL01	325331	5.56	630884	6.76	620229	10.06
VX0818WBS01	256302	5.56	426348	6.77	389002	10.06
VX0818WBSD01	235521	5.56	398008	6.77	370209	10.06

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2815

Lab File ID: VX047371.D Date Analyzed: 08/18/2025

Instrument ID: MSVOA_X Time Analyzed: 10:00

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	269622	5.56	444434	6.76	389564	10.06
UPPER LIMIT	539244	6.056	888868	7.263	779128	10.555
LOWER LIMIT	134811	5.056	222217	6.263	194782	9.555
EPA SAMPLE NO.						

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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2815

Lab File ID: VX047371.D Date Analyzed: 08/18/2025

Instrument ID: MSVOA_X Time Analyzed: 10:00

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

	IS4 AREA #	RT #				
12 HOUR STD	190181	12.018				
UPPER LIMIT	380362	12.518				
LOWER LIMIT	95090.5	11.518				
EPA SAMPLE NO.						
TW-705R-S	295876	12.02				
TW-10PC-W	292088	12.02				
TW-10P-E	294795	12.02				
TW-10P-S	297143	12.02				
TW-10P-W	297817	12.02				
TW-10P-NRE	236692	12.02				
TW-88H-N	209517	12.02				
TW-88H-W	285001	12.02				
TW-88H-S	291956	12.02				
TW-22M-E	264053	12.02				
TW-22M-N	227147	12.02				
TW-17M-E	241466	12.02				
TW-17M-S	253687	12.02				
TW-84SB-S	220943	12.02				
VX0818WBL01	309313	12.02				
VX0818WBS01	197596	12.02				
VX0818WBSD01	191427	12.02				

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Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2815

Lab File ID: VX047371.D Date Analyzed: 08/18/2025

Instrument ID: MSVOA_X Time Analyzed: 10:00

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

	IS4 AREA #	RT #				
12 HOUR STD	190181	12.018				
UPPER LIMIT	380362	12.518				
LOWER LIMIT	95090.5	11.518				
EPA SAMPLE NO.						

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: FIRS02

Lab Code: ACE SDG NO.: Q2815

Lab File ID: VX047400.D Date Analyzed: 08/19/2025

Instrument ID: MSVOA_X Time Analyzed: 09:37

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	203851	5.56	365078	6.76	334051	10.06
UPPER LIMIT	407702	6.062	730156	7.263	668102	10.555
LOWER LIMIT	101926	5.062	182539	6.263	167026	9.555
EPA SAMPLE NO.						
TW-22M-W	192034	5.56	380026	6.77	374792	10.06
TW-22M-S	192217	5.56	378823	6.77	378260	10.06
TW-17M-SRE	215007	5.57	423090	6.77	413847	10.06
TW-84SB-W	257962	5.57	524123	6.77	526082	10.06
DUP	215558	5.56	430064	6.77	432045	10.06
TW-11M-W	205245	5.57	410791	6.77	412728	10.06
TW-11M-E	212215	5.57	432856	6.77	449898	10.06
TW-11M-N	203899	5.57	414517	6.77	421598	10.06
TB	205616	5.57	407837	6.77	405367	10.06
VX0819WBL01	204625	5.56	410508	6.76	416324	10.06
VX0819WBS01	225610	5.56	400778	6.76	370967	10.05

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

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

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2815

Lab File ID: VX047400.D Date Analyzed: 08/19/2025

Instrument ID: MSVOA_X Time Analyzed: 09:37

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

	IS4 AREA #	RT #				
12 HOUR STD	167955	12.018				
UPPER LIMIT	335910	12.518				
LOWER LIMIT	83977.5	11.518				
EPA SAMPLE NO.						
TW-22M-W	186642	12.02				
TW-22M-S	187039	12.02				
TW-17M-SRE	213885	12.02				
TW-84SB-W	264563	12.02				
DUP	228843	12.02				
TW-11M-W	211590	12.02				
TW-11M-E	233636	12.02				
TW-11M-N	218704	12.02				
TB	203950	12.02				
VX0819WBL01	212865	12.02				
VX0819WBS01	189862	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2815

Lab File ID: VX047427.D Date Analyzed: 08/20/2025

Instrument ID: MSVOA_X Time Analyzed: 09:25

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	222102	5.56	369648	6.76	338607	10.05
UPPER LIMIT	444204	6.056	739296	7.263	677214	10.549
LOWER LIMIT	111051	5.056	184824	6.263	169304	9.549
EPA SAMPLE NO.						
TW-11M-ERE	288810	5.57	596562	6.77	600326	10.06
TW-11M-S	275255	5.57	538445	6.77	528308	10.06
FB	317644	5.57	633243	6.77	619750	10.06
VX0820WBL01	280589	5.57	574542	6.77	560929	10.06
VX0820WBS01	244648	5.56	407608	6.76	368354	10.06

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,
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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2815

Lab File ID: VX047427.D Date Analyzed: 08/20/2025

Instrument ID: MSVOA_X Time Analyzed: 09:25

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

	IS4 AREA #	RT #				
12 HOUR STD	165668	12.018				
UPPER LIMIT	331336	12.518				
LOWER LIMIT	82834	11.518				
EPA SAMPLE NO.						
TW-11M-ERE	298812	12.02				
TW-11M-S	264520	12.02				
FB	313519	12.02				
VX0820WBL01	279679	12.02				
VX0820WBS01	188940	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-705R-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-01	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
VX047377.D	1	08/18/25 13:27	VX081825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	4.40	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	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
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-705R-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-01	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
VX047377.D	1	08/18/25 13:27	VX081825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.8		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.9		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	311000	5.568				
540-36-3	1,4-Difluorobenzene	608000	6.769				
3114-55-4	Chlorobenzene-d5	595000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	296000	12.018				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-705R-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-01	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
VX047377.D	1	08/18/25 13:27	VX081825

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\VX081825\
Data File : VX047377.D
Acq On : 18 Aug 2025 13:27
Operator : JC/MD
Sample : Q2815-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-705R-S

Quant Time: Aug 19 01:41:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

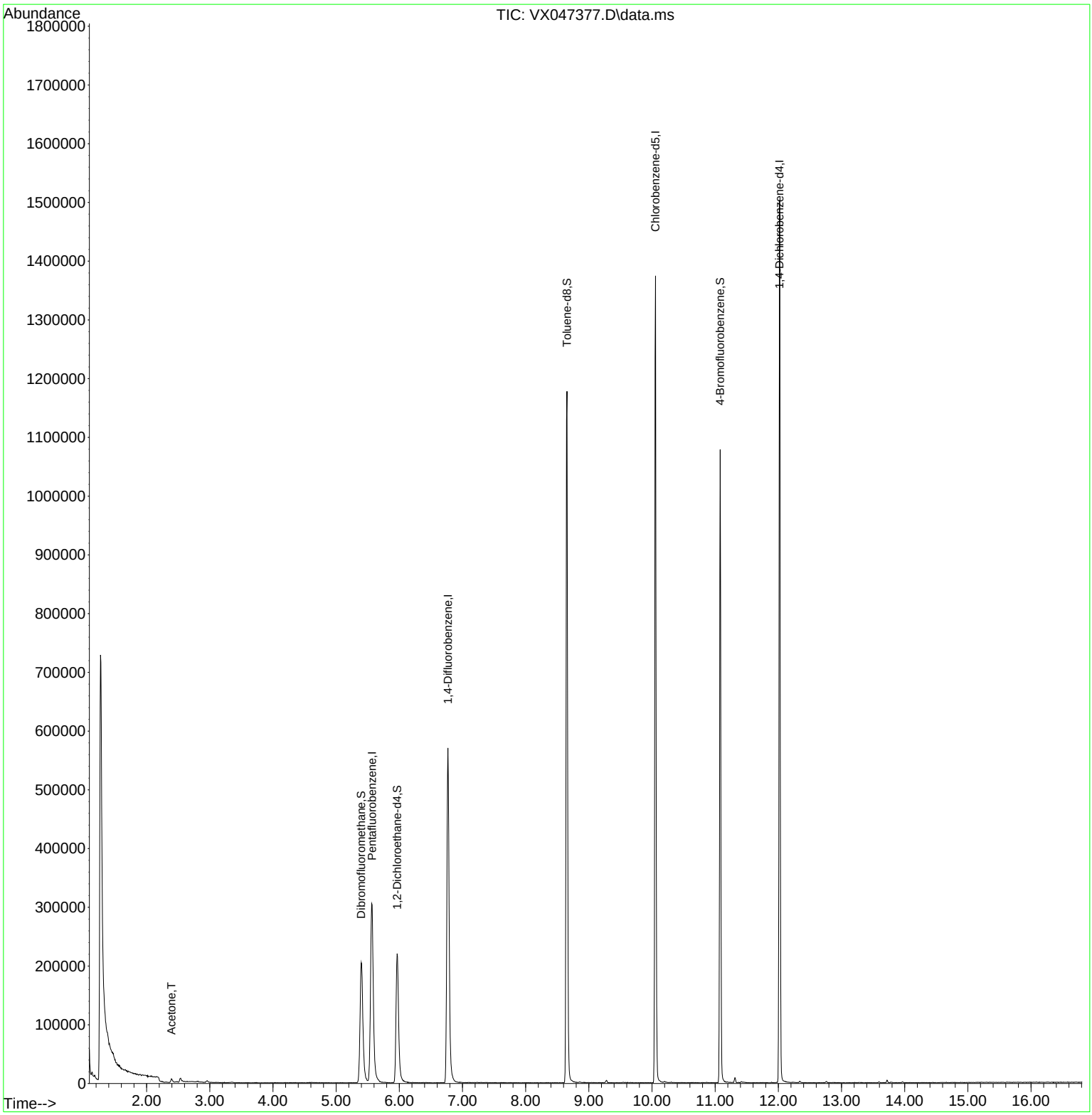
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	311120	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	608136	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	595081	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	295876	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	234233	53.794	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.580%			
35) Dibromofluoromethane	5.397	113	199309	50.498	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.000%			
50) Toluene-d8	8.653	98	713925	50.607	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.220%			
62) 4-Bromofluorobenzene	11.079	95	291116	55.921	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.840%			
Target Compounds						Qvalue
16) Acetone	2.392	43	7258	4.435	ug/l	96

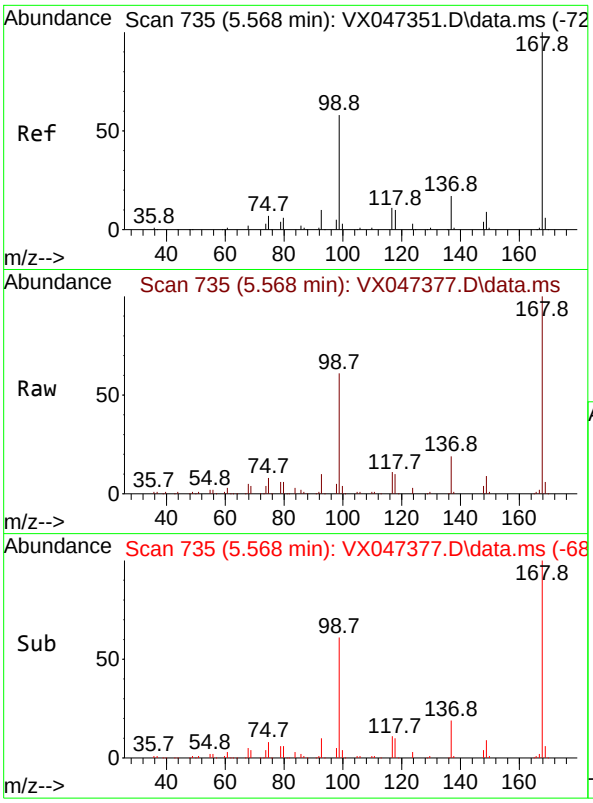
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047377.D
Acq On : 18 Aug 2025 13:27
Operator : JC/MD
Sample : Q2815-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-705R-S

Quant Time: Aug 19 01:41:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



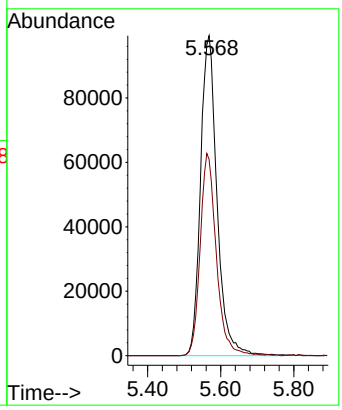


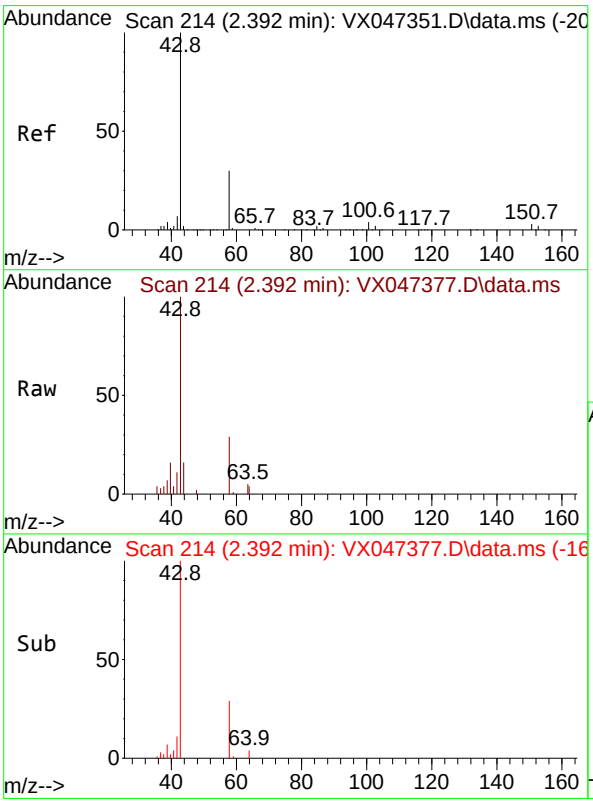
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047377.D
Acq: 18 Aug 2025 13:27

Instrument :
MSVOA_X
ClientSampleId :
TW-705R-S

Tgt Ion:168 Resp: 311120

Ion	Ratio	Lower	Upper
168	100		
99	61.3	47.9	71.9

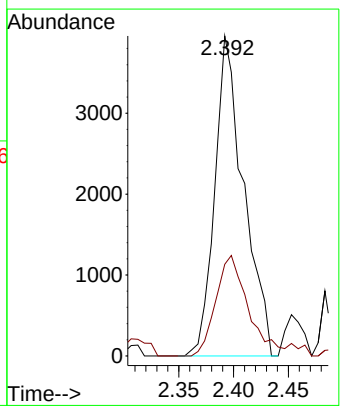


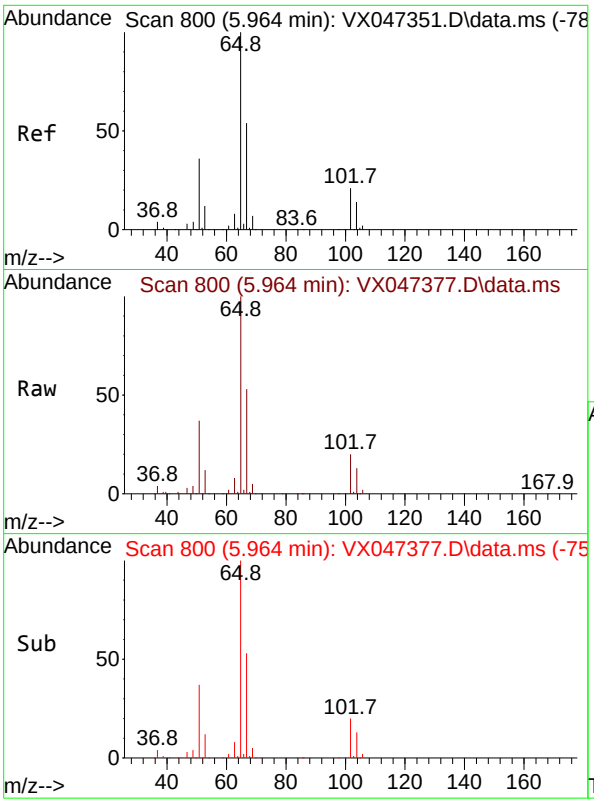


#16
Acetone
Concen: 4.435 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047377.D
Acq: 18 Aug 2025 13:27

Tgt Ion: 43 Resp: 7258

Ion	Ratio	Lower	Upper
43	100		
58	28.6	24.8	37.2



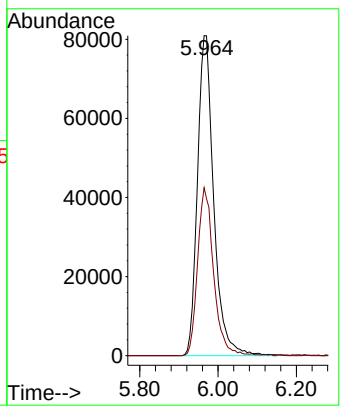


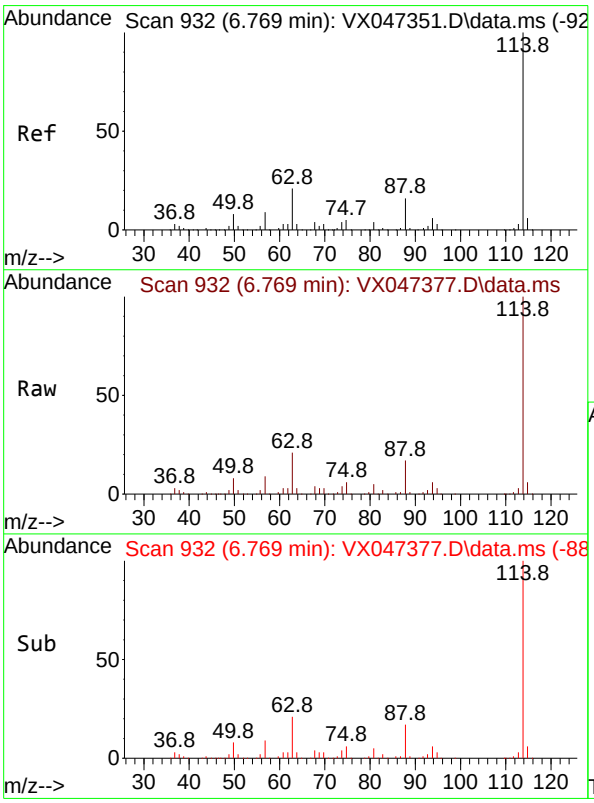
#33
1,2-Dichloroethane-d4
Concen: 53.794 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047377.D
Acq: 18 Aug 2025 13:27

Instrument :
MSVOA_X
ClientSampleId :
TW-705R-S

Tgt Ion: 65 Resp: 234233

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	106.0

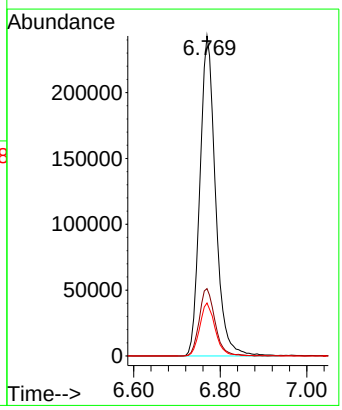


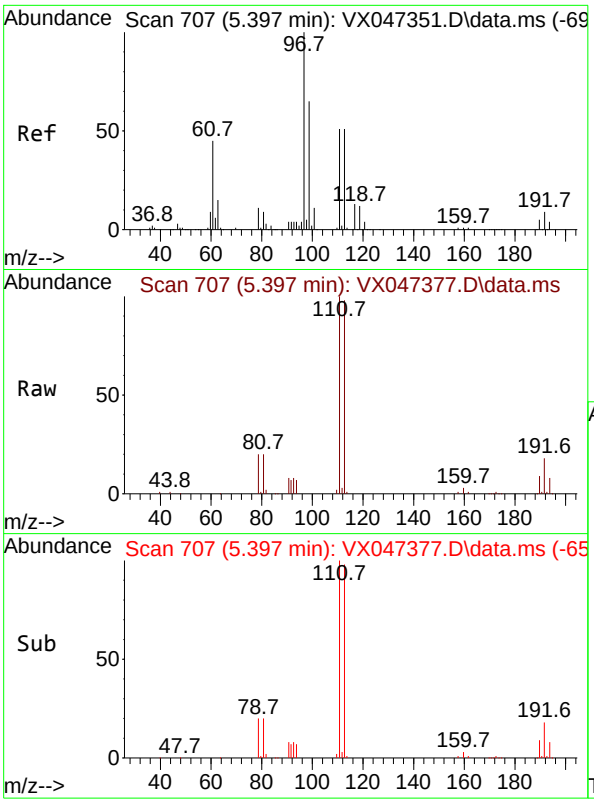


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047377.D
Acq: 18 Aug 2025 13:27

Tgt Ion:114 Resp: 608136

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	42.4
88	16.5	0.0	33.0



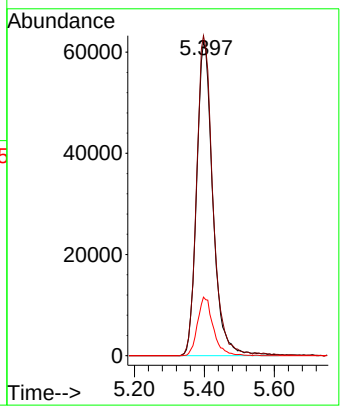


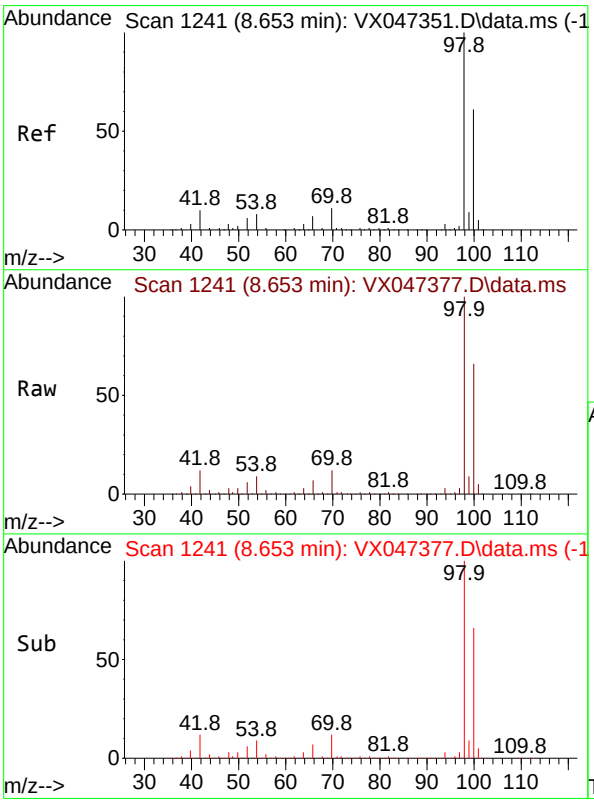
#35
Dibromofluoromethane
Concen: 50.498 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047377.D
Acq: 18 Aug 2025 13:27

Instrument :
MSVOA_X
ClientSampleId :
TW-705R-S

Tgt Ion:113 Resp: 199309

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.4	122.2
192	18.0	14.1	21.1

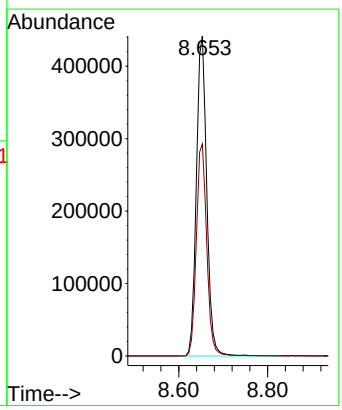


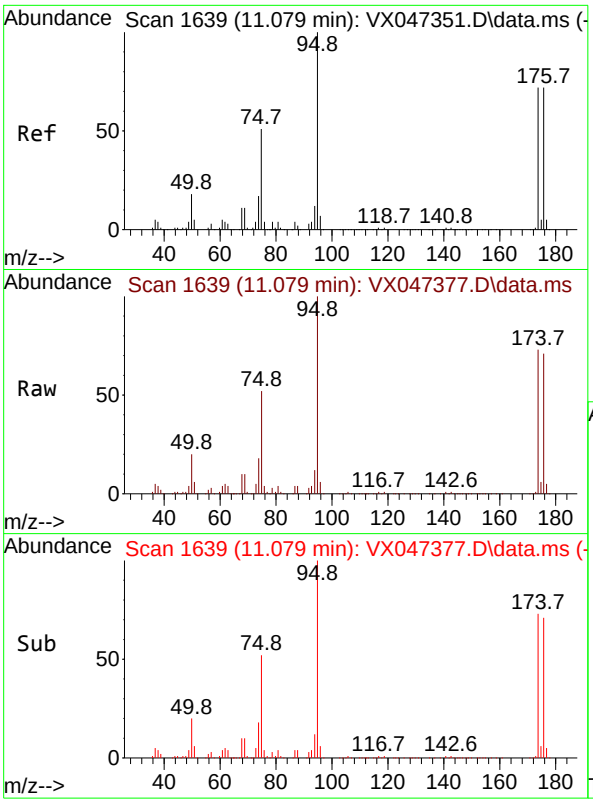


#50
Toluene-d8
Concen: 50.607 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047377.D
Acq: 18 Aug 2025 13:27

Tgt Ion: 98 Resp: 713925

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.9	80.9



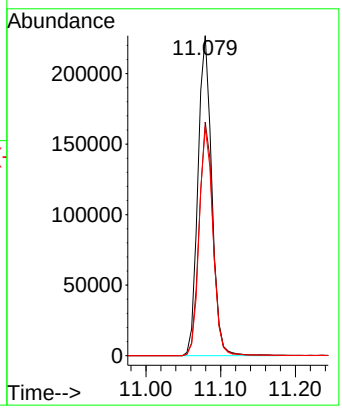


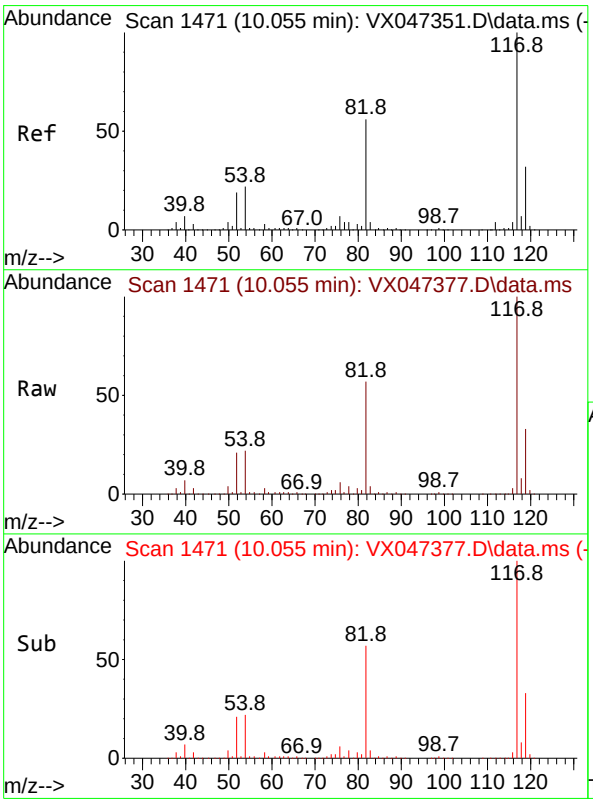
#62
4-Bromofluorobenzene
Concen: 55.921 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047377.D
Acq: 18 Aug 2025 13:27

Instrument :
MSVOA_X
ClientSampleId :
TW-705R-S

Tgt Ion: 95 Resp: 291116

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	148.0
176	71.1	0.0	145.4

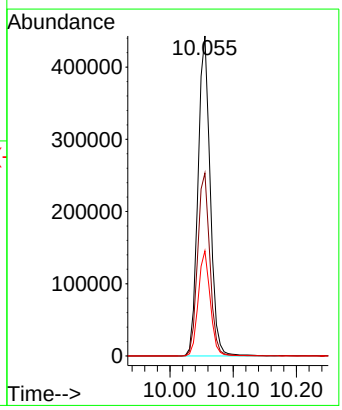


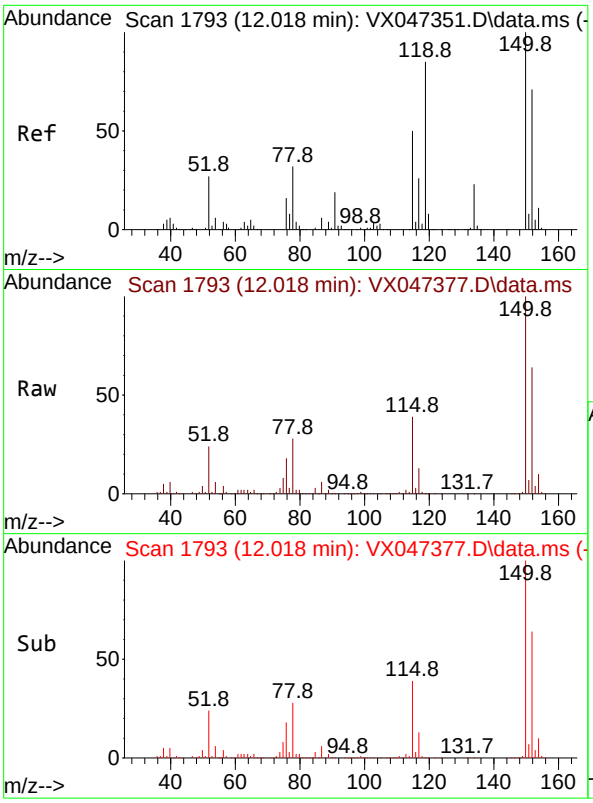


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047377.D
Acq: 18 Aug 2025 13:27

Tgt Ion:117 Resp: 595081

Ion	Ratio	Lower	Upper
117	100		
82	57.2	45.0	67.4
119	32.9	25.8	38.8



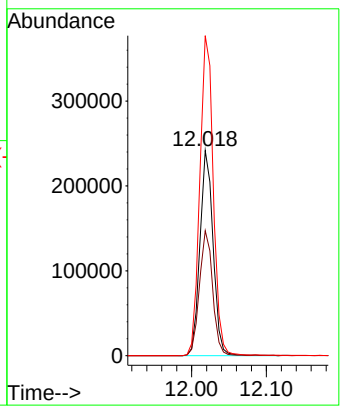


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047377.D
Acq: 18 Aug 2025 13:27

Instrument :
MSVOA_X
ClientSampleId :
TW-705R-S

Tgt Ion:152 Resp: 295876

Ion	Ratio	Lower	Upper
152	100		
115	61.2	44.6	133.8
150	160.0	0.0	349.8



Sample Results: **VX047377.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047377.D
Acq On : 18 Aug 2025 13:27
Operator : JC/MD
Sample : Q2815-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-705R-S

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047377.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.270	24	30	60	rBV	723125	2442276	100.00%	18.571%
2	5.397	695	707	724	rBV2	204514	652393	26.71%	4.961%
3	5.562	724	734	760	rVB	304767	958283	39.24%	7.287%
4	5.964	790	800	825	rBV	219608	636905	26.08%	4.843%
5	6.769	923	932	953	rBV	570054	1438467	58.90%	10.938%
6	8.653	1234	1241	1258	rBV	1177059	1924858	78.81%	14.637%
7	10.055	1465	1471	1489	rBV	1373863	1860093	76.16%	14.144%
8	11.079	1633	1639	1654	rBV	1077923	1386723	56.78%	10.545%
9	12.018	1788	1793	1809	rBV	1501660	1851039	75.79%	14.075%

Sum of corrected areas: 13151037

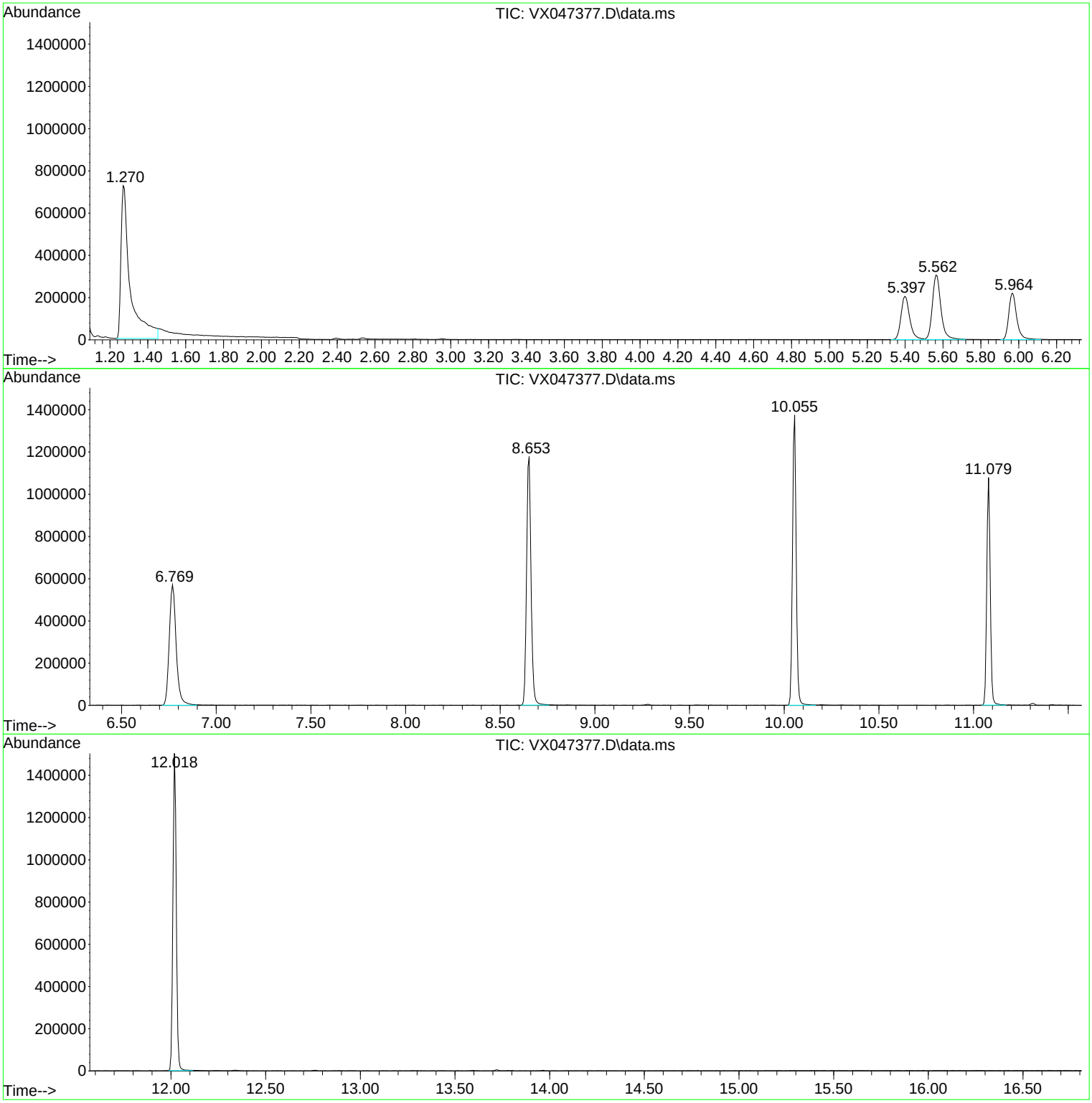
Sample Results: **VX047377.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047377.D
Acq On : 18 Aug 2025 13:27
Operator : JC/MD
Sample : Q2815-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-705R-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047377.D
Acq On : 18 Aug 2025 13:27
Operator : JC/MD
Sample : Q2815-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-705R-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081825\
Data File : VX047377.D
Acq On : 18 Aug 2025 13:27
Operator : JC/MD
Sample : Q2815-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-705R-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10PC-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-02	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
VX047378.D	1	08/18/25 13:48	VX081825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	4.20	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	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:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10PC-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-02	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
VX047378.D	1	08/18/25 13:48	VX081825

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	54.7		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.8		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.9		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	303000	5.568				
540-36-3	1,4-Difluorobenzene	599000	6.769				
3114-55-4	Chlorobenzene-d5	595000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	292000	12.018				

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10PC-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-02	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
VX047378.D	1	08/18/25 13:48	VX081825

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\VX081825\
Data File : VX047378.D
Acq On : 18 Aug 2025 13:48
Operator : JC/MD
Sample : Q2815-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10PC-W

Quant Time: Aug 19 01:42:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

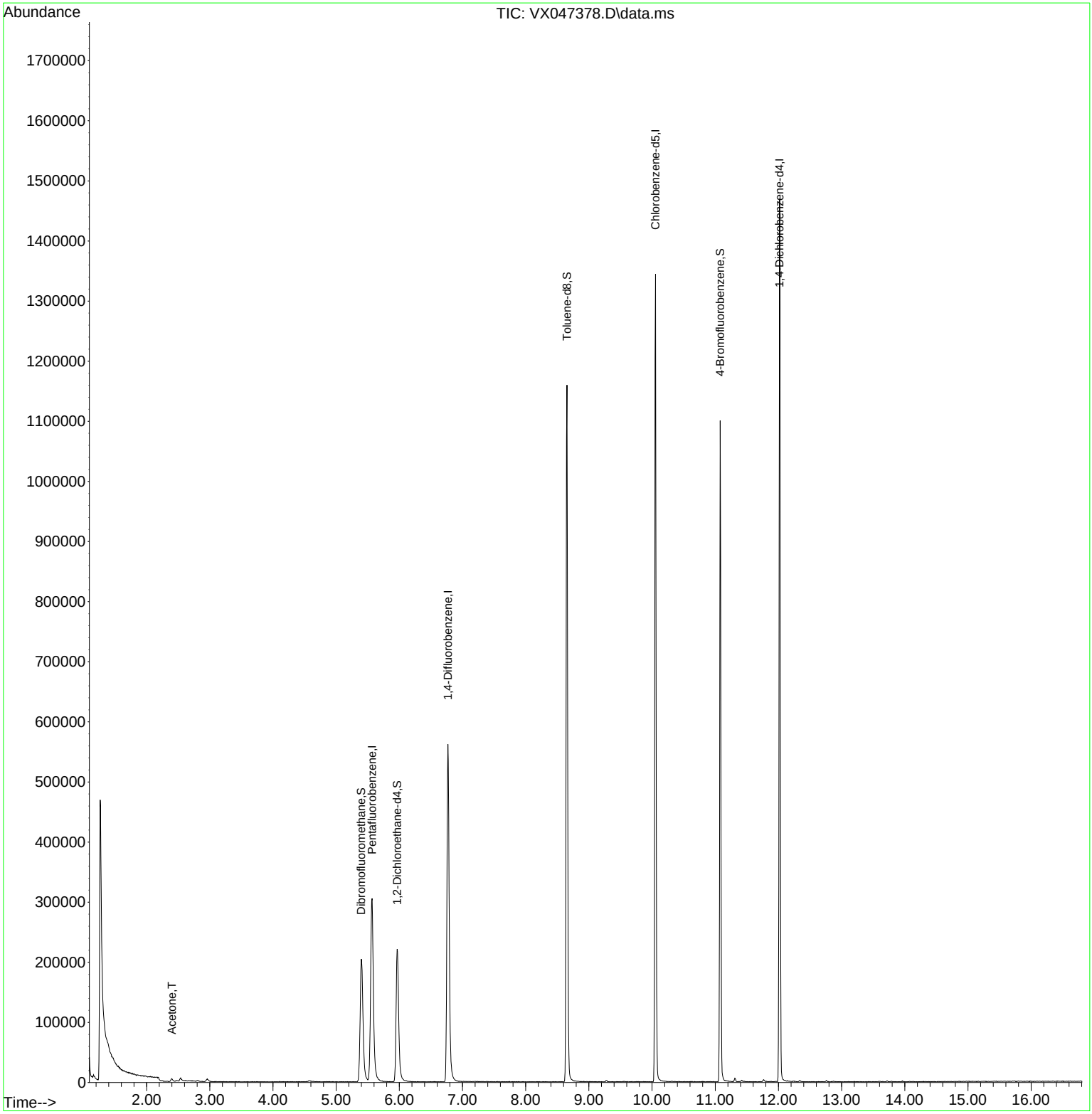
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	302793	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	599218	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	594774	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	292088	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	231927	54.730	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.460%			
35) Dibromofluoromethane	5.397	113	196571	50.546	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.100%			
50) Toluene-d8	8.653	98	705715	50.770	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.540%			
62) 4-Bromofluorobenzene	11.079	95	286508	55.855	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.720%			
Target Compounds						Qvalue
16) Acetone	2.398	43	6754	4.240	ug/l #	81

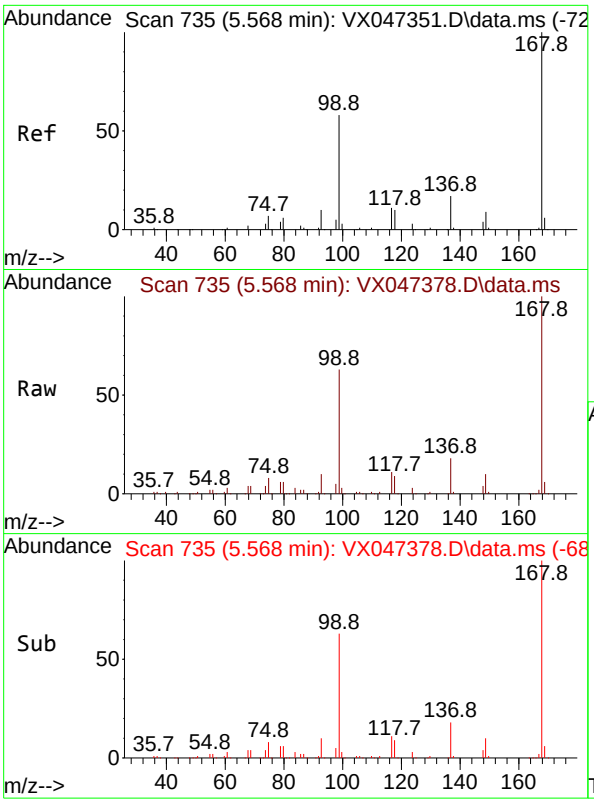
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047378.D
Acq On : 18 Aug 2025 13:48
Operator : JC/MD
Sample : Q2815-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10PC-W

Quant Time: Aug 19 01:42:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



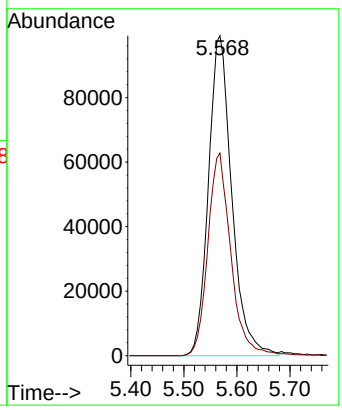


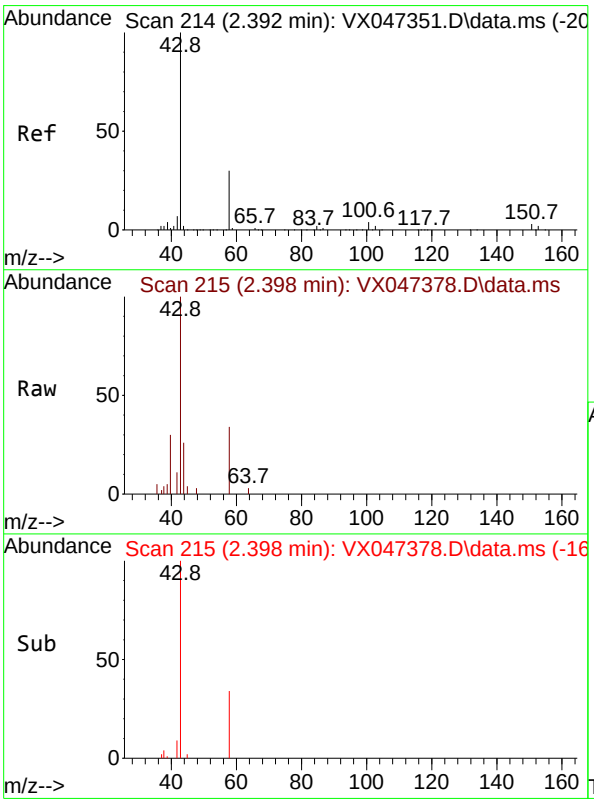
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047378.D
Acq: 18 Aug 2025 13:48

Instrument :
MSVOA_X
ClientSampleId :
TW-10PC-W

Tgt Ion:168 Resp: 302793

Ion	Ratio	Lower	Upper
168	100		
99	63.4	47.9	71.9

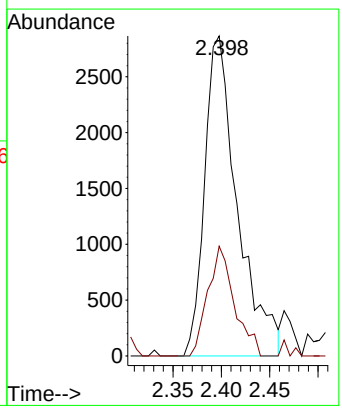


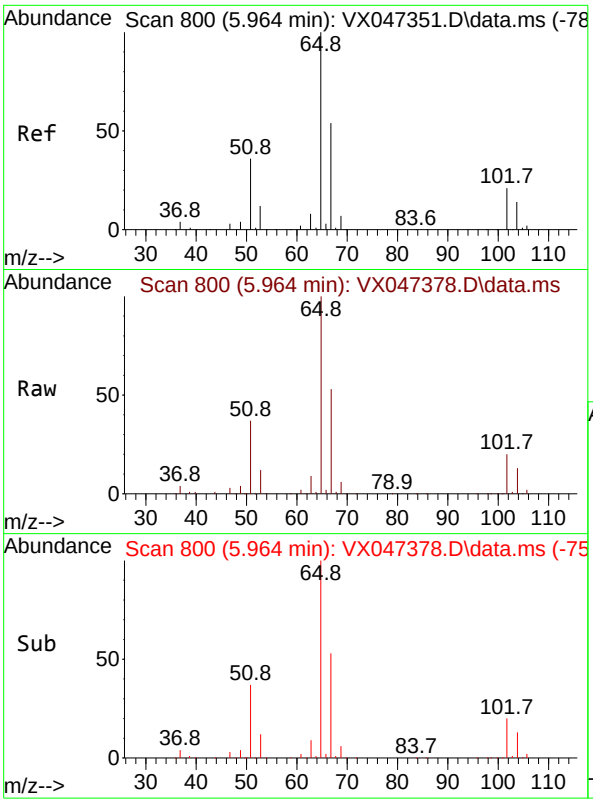


#16
Acetone
Concen: 4.240 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047378.D
Acq: 18 Aug 2025 13:48

Tgt Ion: 43 Resp: 6754

Ion	Ratio	Lower	Upper
43	100		
58	41.7	24.8	37.2#



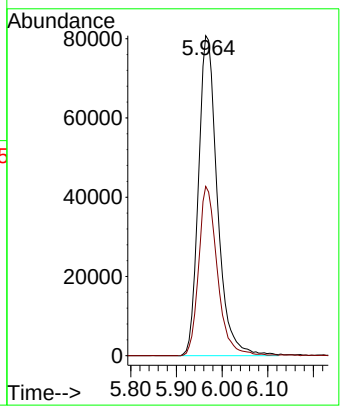


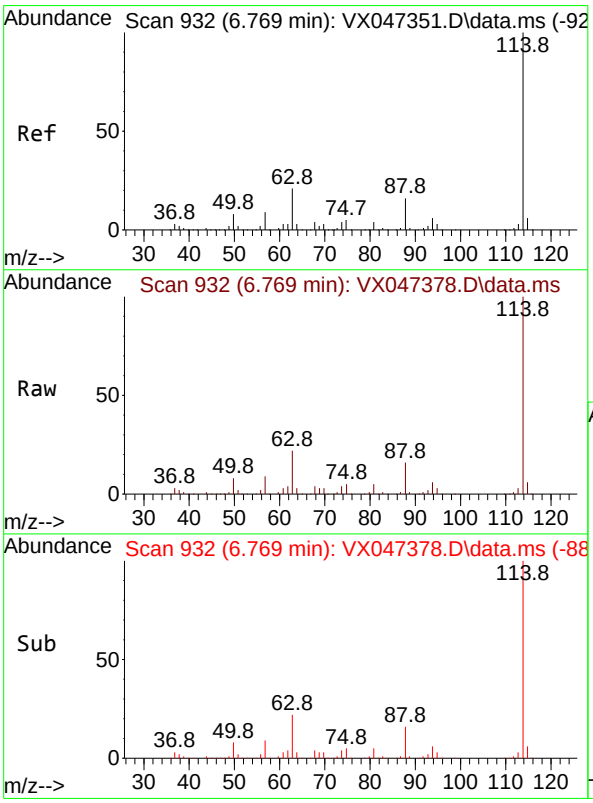
#33
1,2-Dichloroethane-d4
Concen: 54.730 ug/l
RT: 5.964 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047378.D
Acq: 18 Aug 2025 13:48

Instrument :
MSVOA_X
ClientSampleId :
TW-10PC-W

Tgt Ion: 65 Resp: 231927

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	106.0

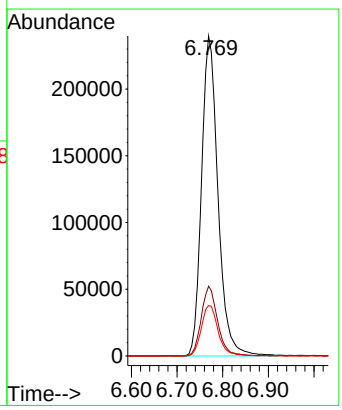


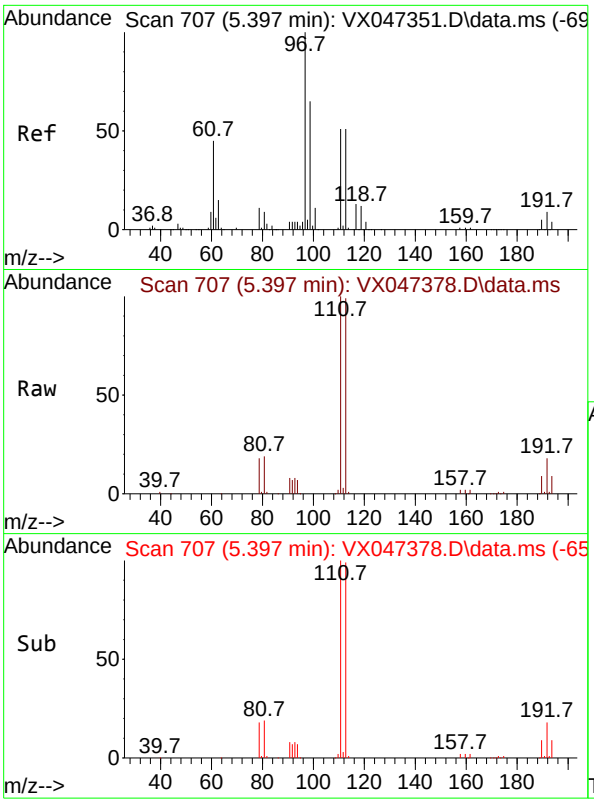


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. -0.000 min
Lab File: VX047378.D
Acq: 18 Aug 2025 13:48

Tgt Ion:114 Resp: 599218

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	42.4
88	15.8	0.0	33.0



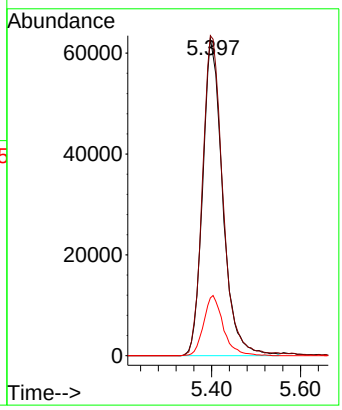


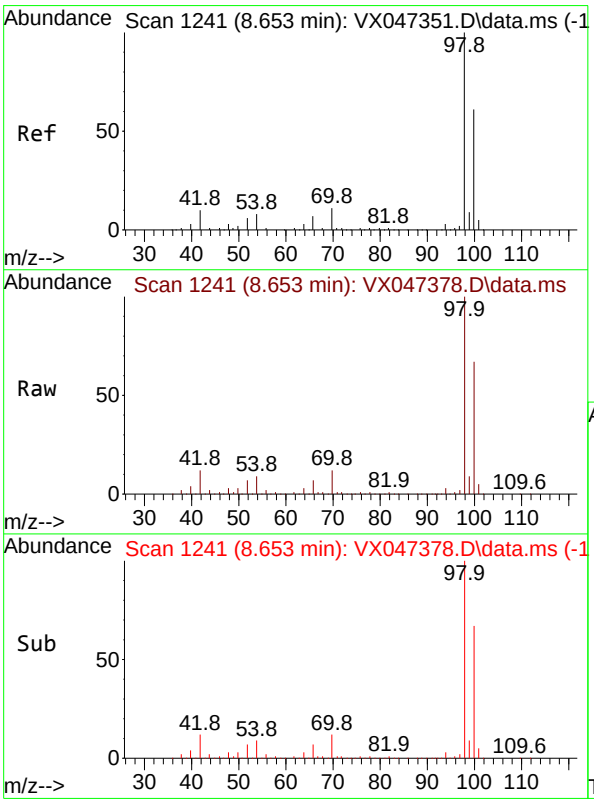
#35
Dibromofluoromethane
Concen: 50.546 ug/l
RT: 5.397 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047378.D
Acq: 18 Aug 2025 13:48

Instrument :
MSVOA_X
ClientSampleId :
TW-10PC-W

Tgt Ion:113 Resp: 196571

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.4	122.2
192	18.7	14.1	21.1

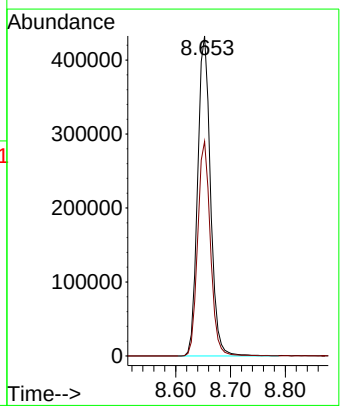


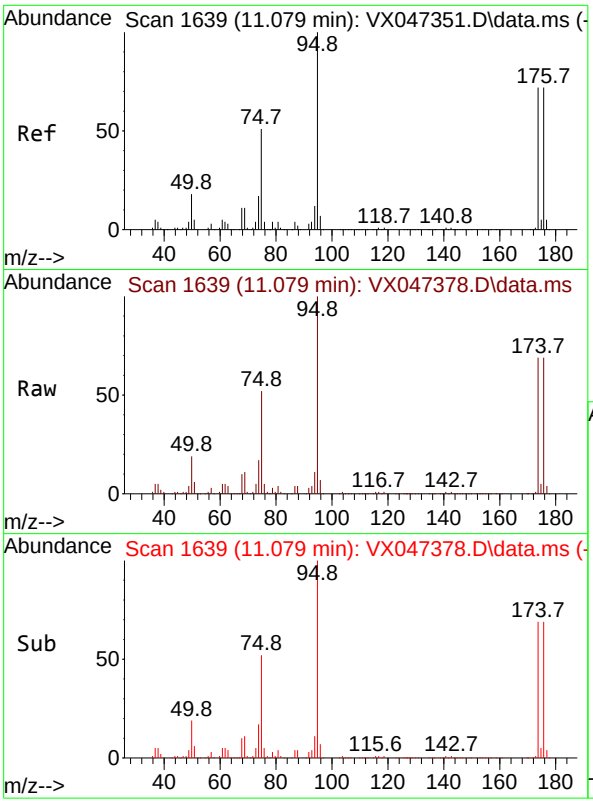


#50
Toluene-d8
Concen: 50.770 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX047378.D
Acq: 18 Aug 2025 13:48

Tgt Ion: 98 Resp: 705715

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.9	80.9



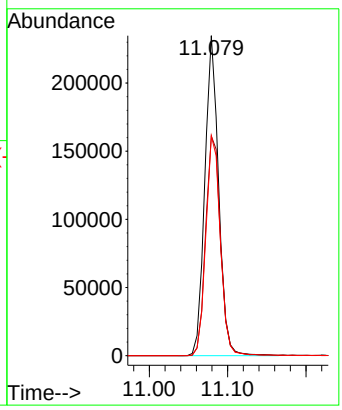


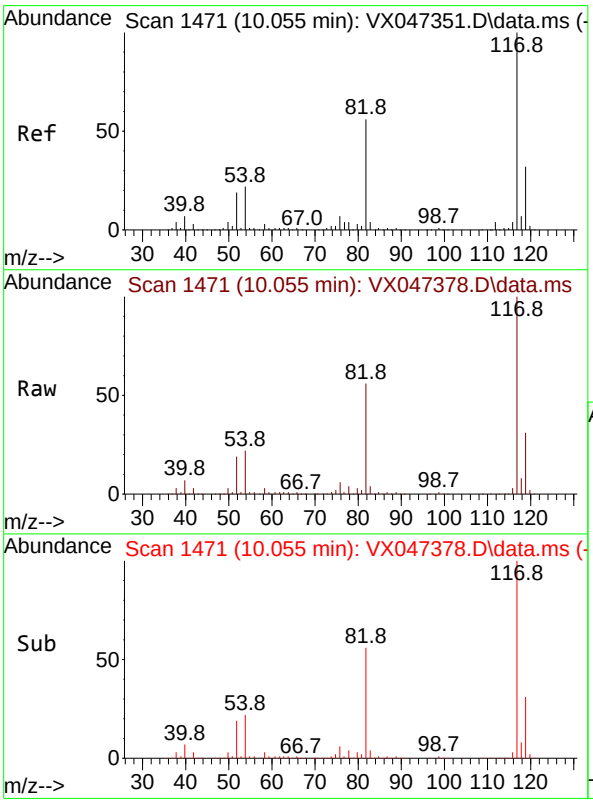
#62
4-Bromofluorobenzene
Concen: 55.855 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047378.D
Acq: 18 Aug 2025 13:48

Instrument :
MSVOA_X
ClientSampleId :
TW-10PC-W

Tgt Ion: 95 Resp: 286508

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	148.0
176	72.1	0.0	145.4

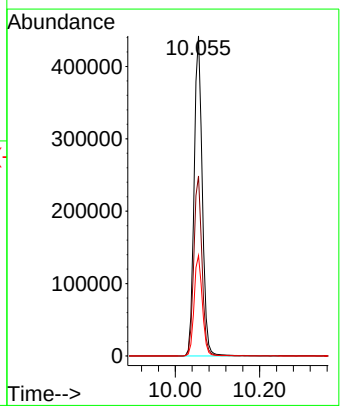


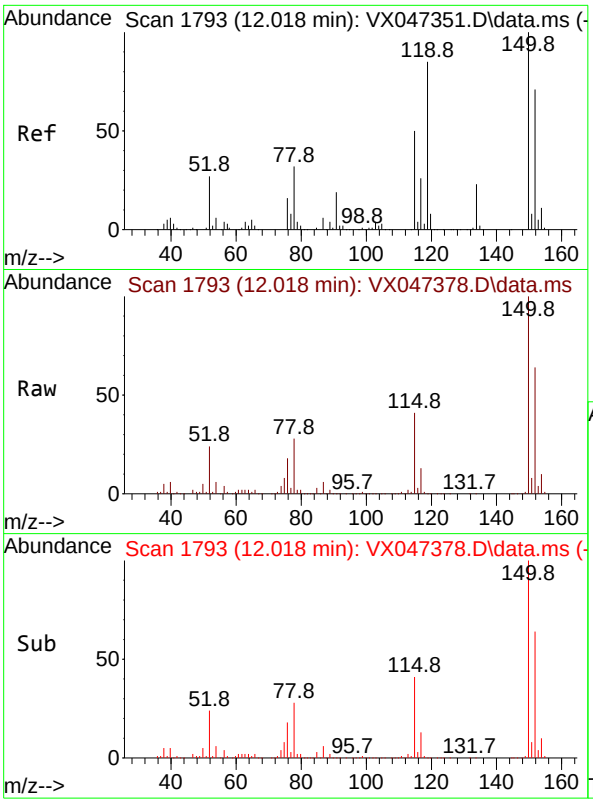


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX047378.D
Acq: 18 Aug 2025 13:48

Tgt Ion:117 Resp: 594774

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.0	67.4
119	31.3	25.8	38.8



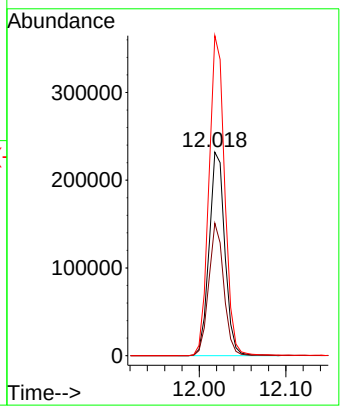


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047378.D
Acq: 18 Aug 2025 13:48

Instrument :
MSVOA_X
ClientSampleId :
TW-10PC-W

Tgt Ion:152 Resp: 292088

Ion	Ratio	Lower	Upper
152	100		
115	62.6	44.6	133.8
150	157.7	0.0	349.8



Sample Results: **VX047378.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047378.D
Acq On : 18 Aug 2025 13:48
Operator : JC/MD
Sample : Q2815-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10PC-W

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047378.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	24	29	62	rBV	465551	1627950	85.81%	13.347%
2	5.397	696	707	724	rBV2	204225	648398	34.18%	5.316%
3	5.568	724	735	759	rVB	304071	937497	49.42%	7.686%
4	5.964	789	800	824	rBV	220529	637272	33.59%	5.225%
5	6.769	921	932	957	rBV	561575	1421344	74.92%	11.653%
6	8.653	1234	1241	1258	rBV	1158595	1897067	100.00%	15.554%
7	10.055	1465	1471	1486	rBV	1343581	1836090	96.79%	15.054%
8	11.079	1634	1639	1650	rBV	1099618	1367840	72.10%	11.215%
9	12.018	1788	1793	1812	rBV	1468437	1823406	96.12%	14.950%

Sum of corrected areas: 12196864

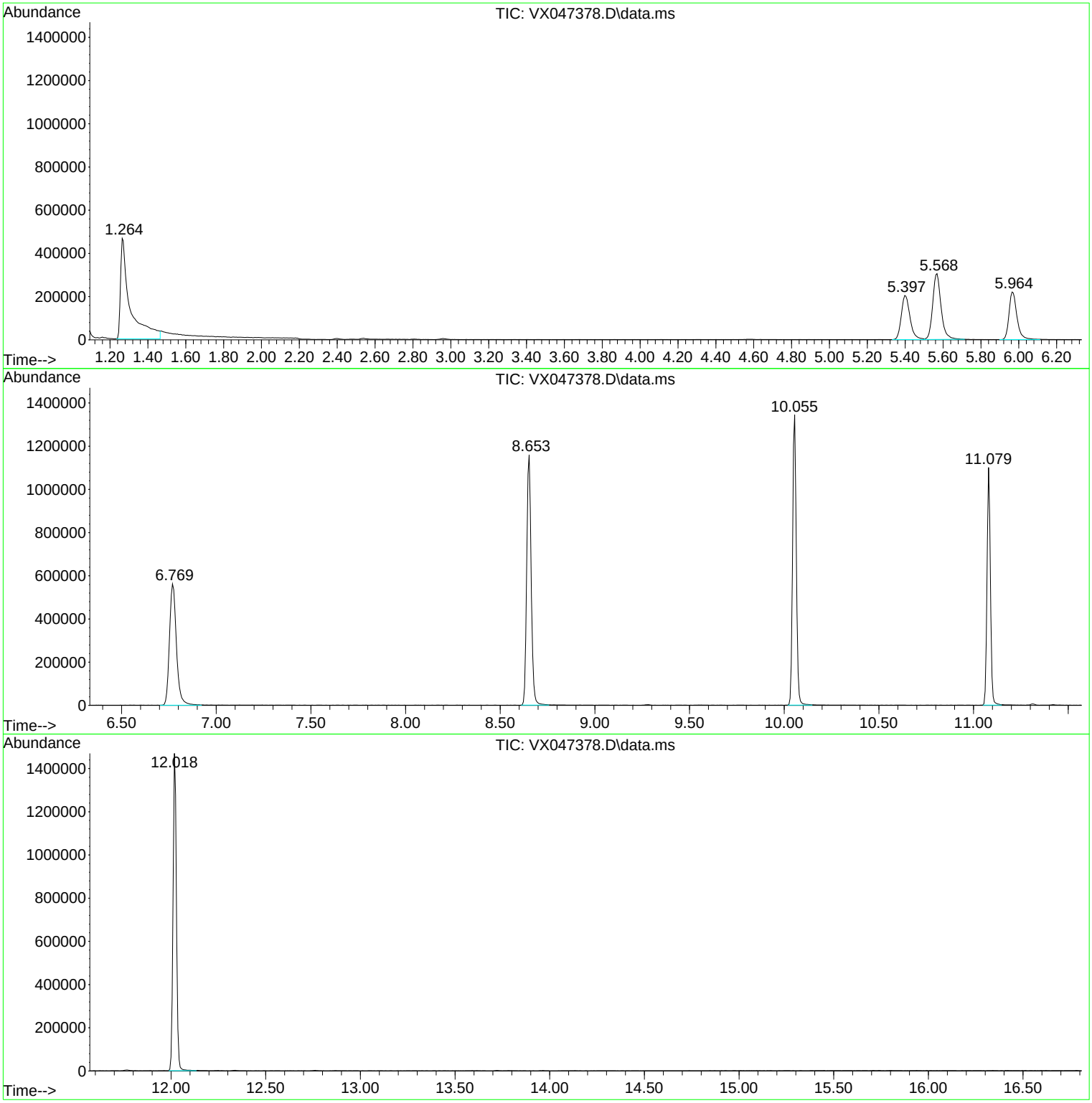
Sample Results: **VX047378.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047378.D
Acq On : 18 Aug 2025 13:48
Operator : JC/MD
Sample : Q2815-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10PC-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047378.D
Acq On : 18 Aug 2025 13:48
Operator : JC/MD
Sample : Q2815-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10PC-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081825\
Data File : VX047378.D
Acq On : 18 Aug 2025 13:48
Operator : JC/MD
Sample : Q2815-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10PC-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-03	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
VX047379.D	1	08/18/25 14:10	VX081825

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	7.70		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	1.40		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:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-03	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
VX047379.D	1	08/18/25 14:10	VX081825

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	54.3		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.7		85 - 114		111%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	308000	5.568				
540-36-3	1,4-Difluorobenzene	606000	6.769				
3114-55-4	Chlorobenzene-d5	600000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	295000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-03	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
VX047379.D	1	08/18/25 14:10	VX081825

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\VX081825\
Data File : VX047379.D
Acq On : 18 Aug 2025 14:10
Operator : JC/MD
Sample : Q2815-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-E

Quant Time: Aug 19 01:42:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

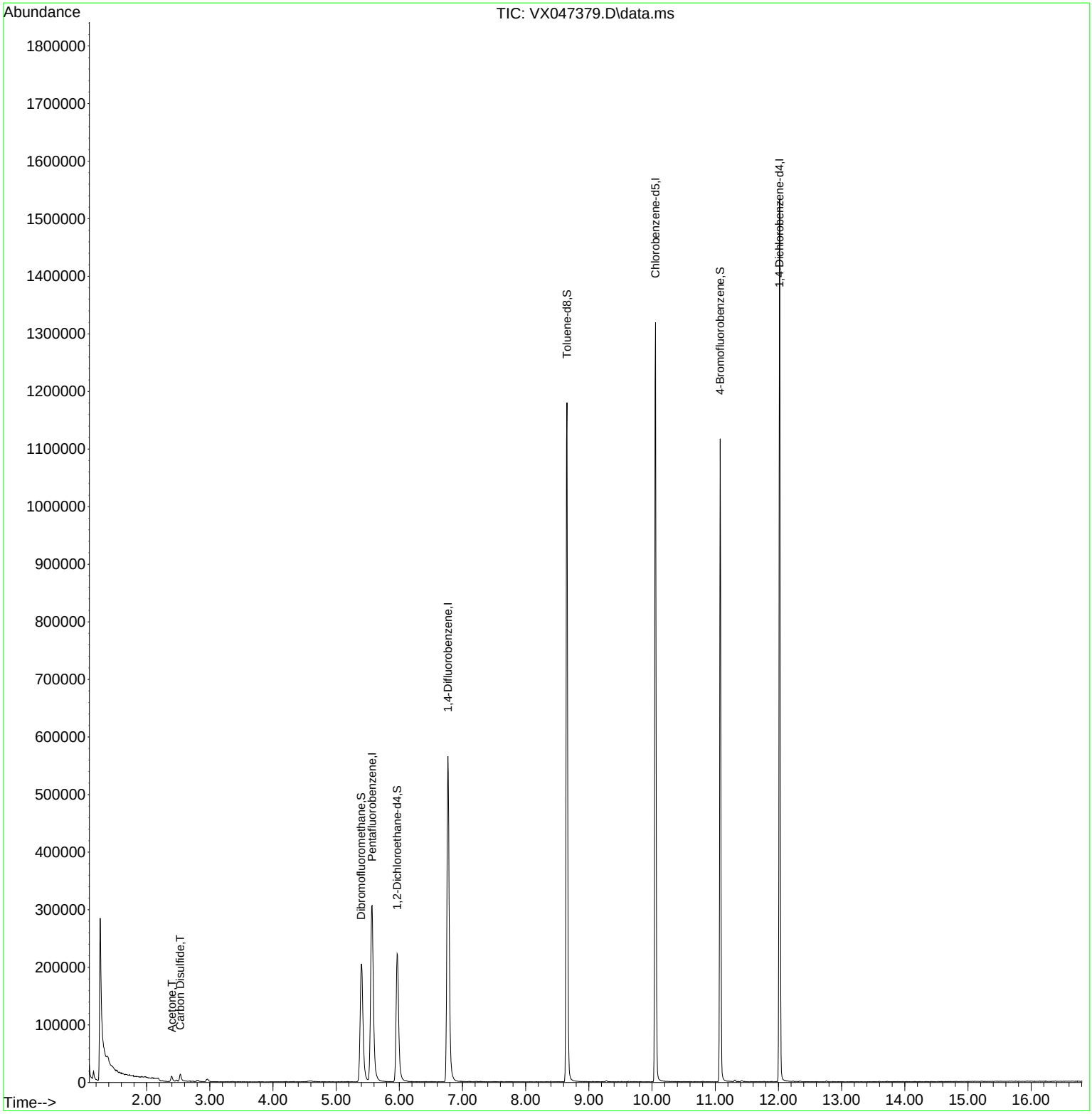
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	308366	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	605898	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	599545	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	294795	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	234341	54.300	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.600%			
35) Dibromofluoromethane	5.397	113	199372	50.701	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.400%			
50) Toluene-d8	8.653	98	710342	50.539	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.080%			
62) 4-Bromofluorobenzene	11.079	95	288770	55.676	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.360%			
Target Compounds						Qvalue
16) Acetone	2.398	43	12417	7.655	ug/l #	88
17) Carbon Disulfide	2.532	76	16656	1.422	ug/l	96

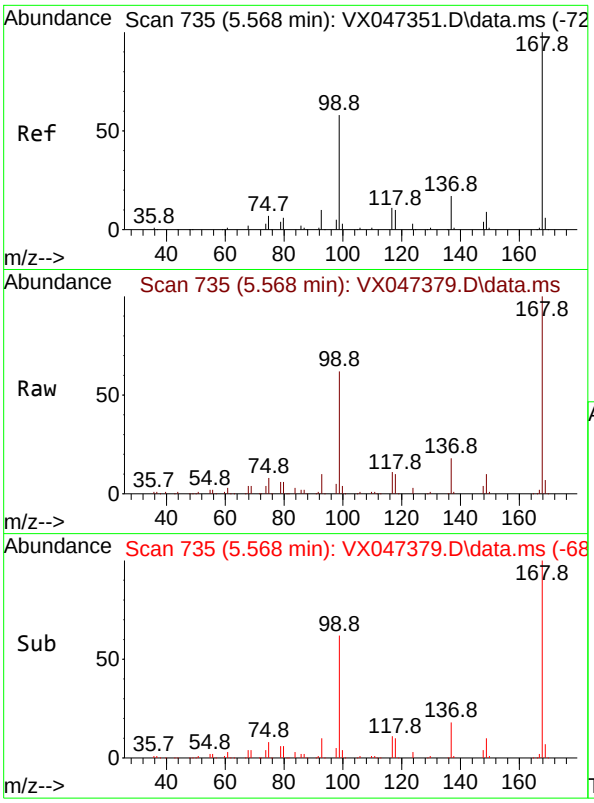
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047379.D
Acq On : 18 Aug 2025 14:10
Operator : JC/MD
Sample : Q2815-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-E

Quant Time: Aug 19 01:42:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



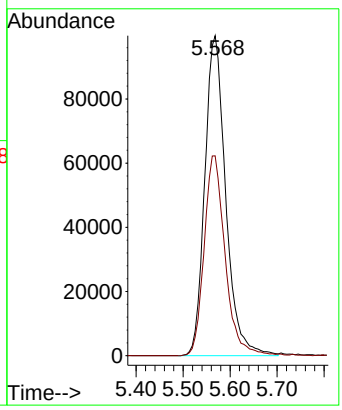


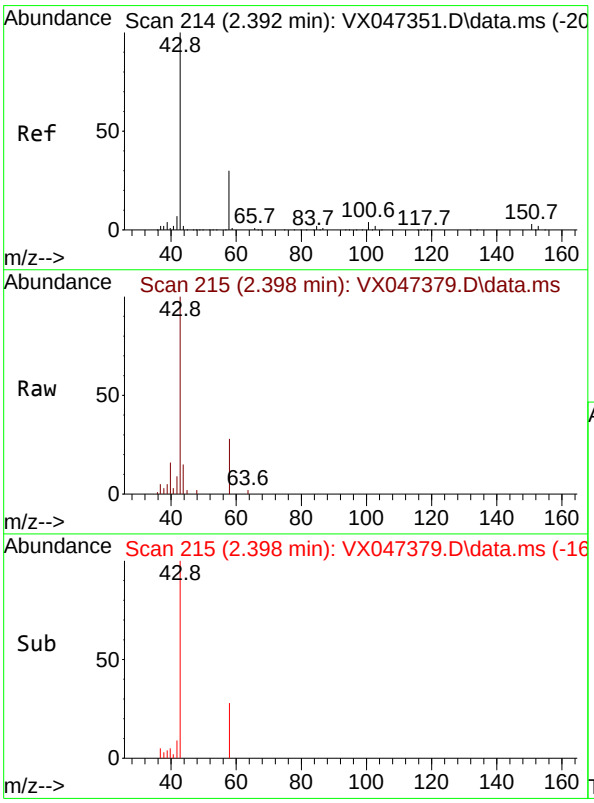
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047379.D
Acq: 18 Aug 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-E

Tgt Ion:168 Resp: 308366

Ion	Ratio	Lower	Upper
168	100		
99	62.4	47.9	71.9

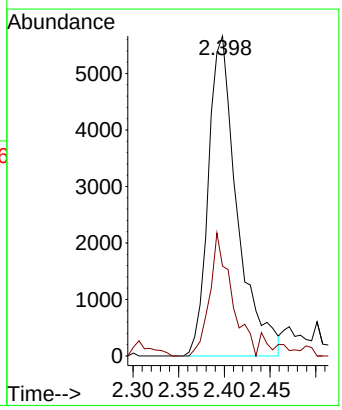


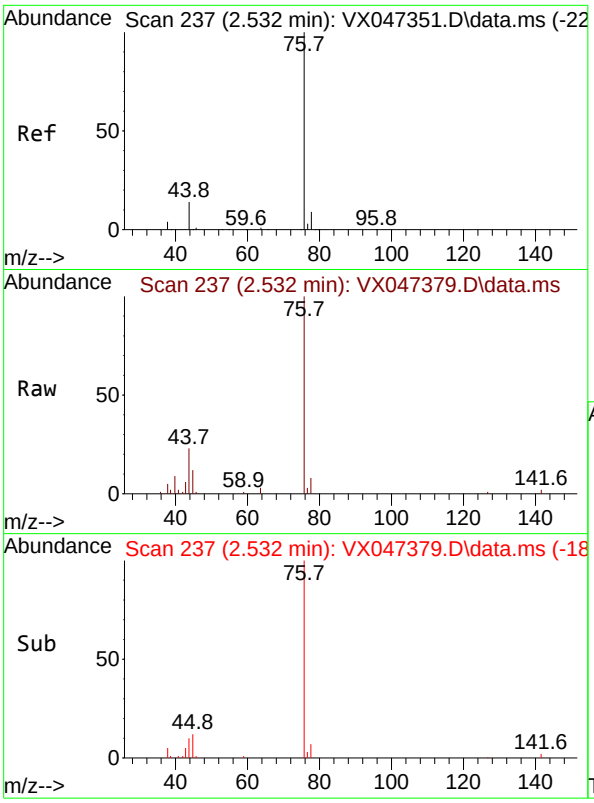


#16
Acetone
Concen: 7.655 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047379.D
Acq: 18 Aug 2025 14:10

Tgt Ion: 43 Resp: 12417

Ion	Ratio	Lower	Upper
43	100		
58	24.5	24.8	37.2#



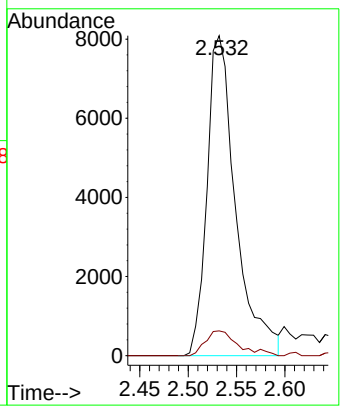


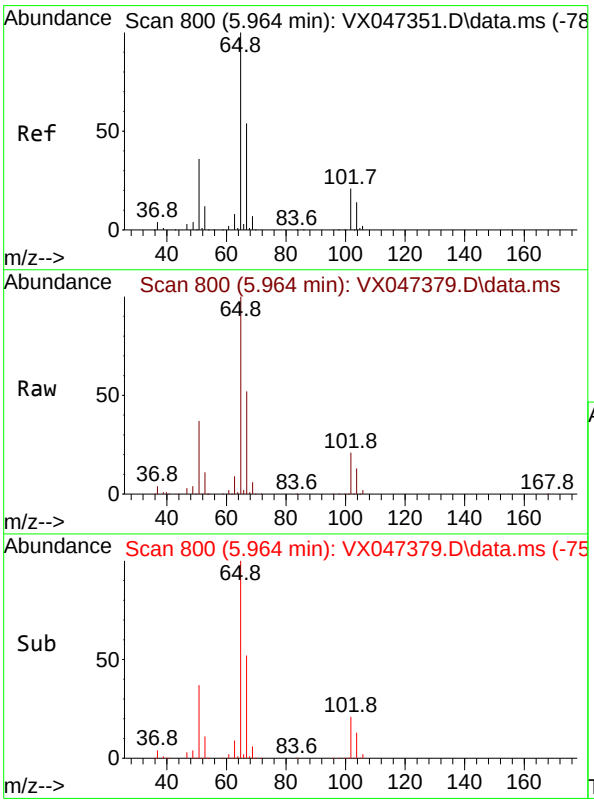
#17
Carbon Disulfide
Concen: 1.422 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047379.D
Acq: 18 Aug 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-E

Tgt Ion: 76 Resp: 16656

Ion	Ratio	Lower	Upper
76	100		
78	7.6	7.2	10.8

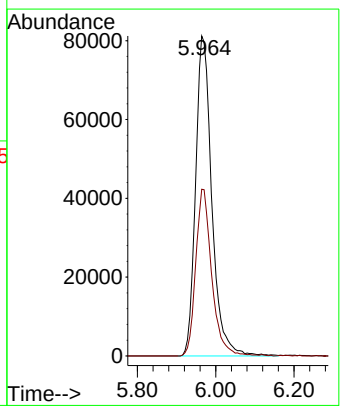


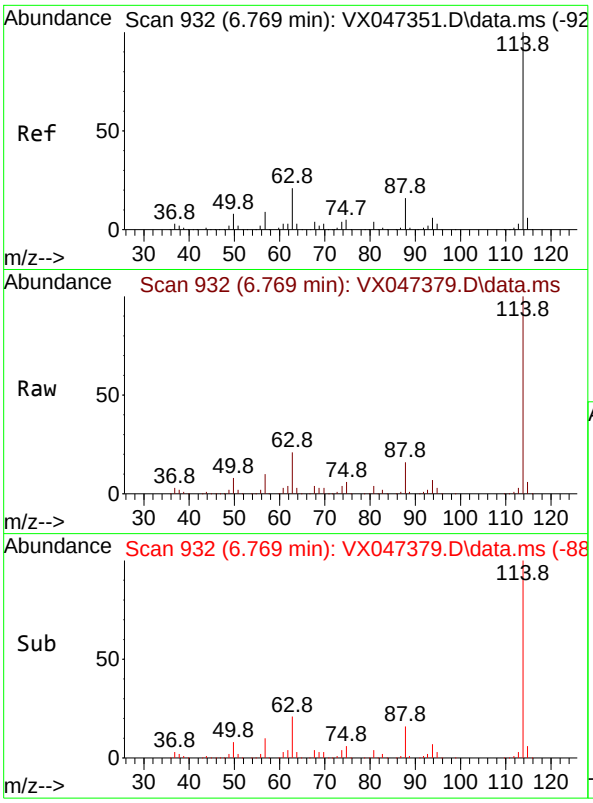


#33
1,2-Dichloroethane-d4
Concen: 54.300 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047379.D
Acq: 18 Aug 2025 14:10

Tgt Ion: 65 Resp: 234341

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	106.0



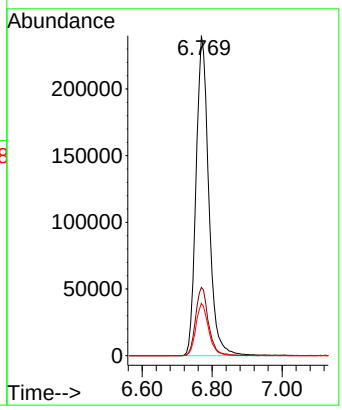


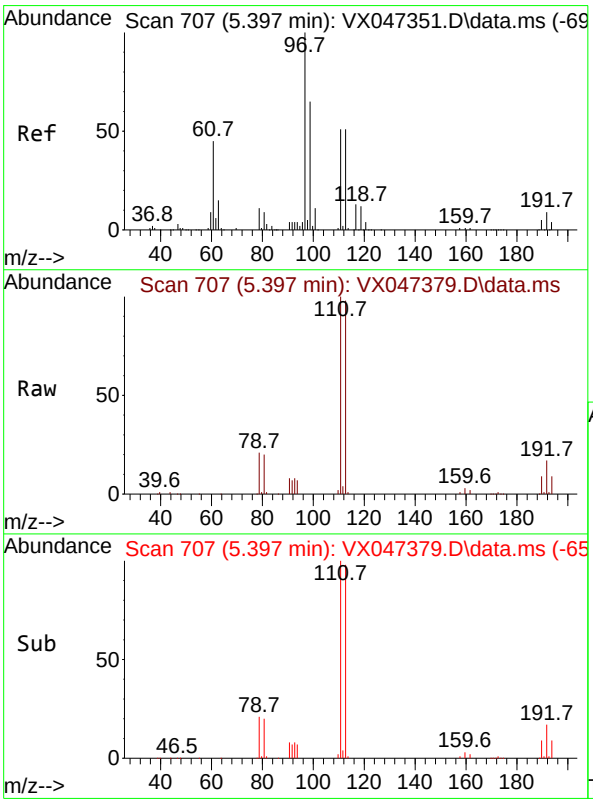
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047379.D
Acq: 18 Aug 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-E

Tgt Ion:114 Resp: 605898

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	42.4
88	16.4	0.0	33.0

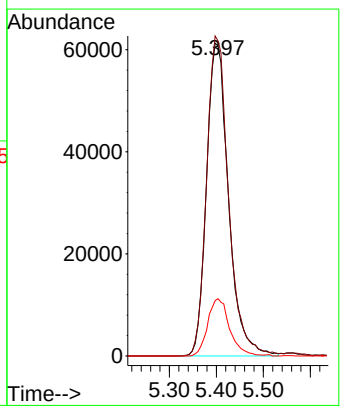


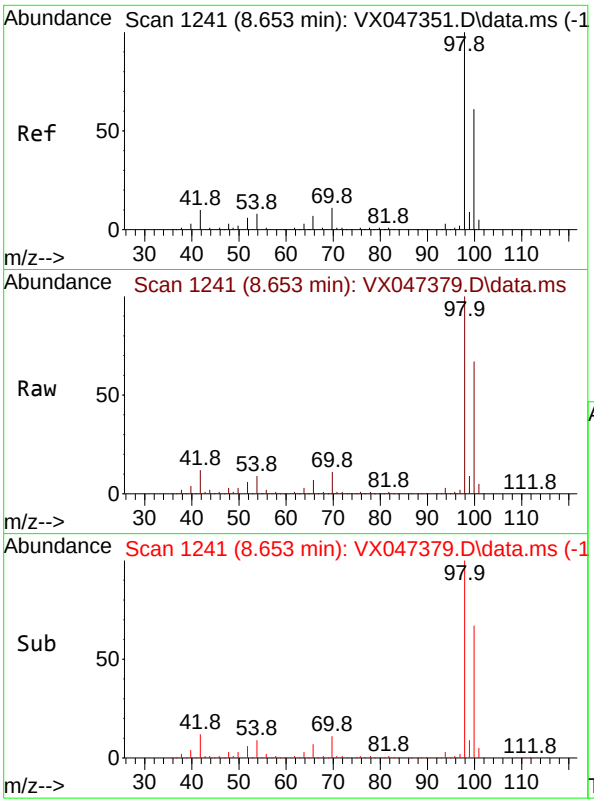


#35
Dibromofluoromethane
Concen: 50.701 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047379.D
Acq: 18 Aug 2025 14:10

Tgt Ion:113 Resp: 199372

Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.4	122.2
192	18.2	14.1	21.1



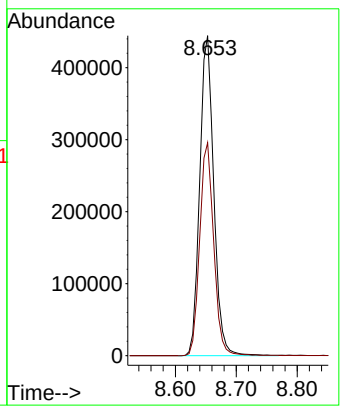


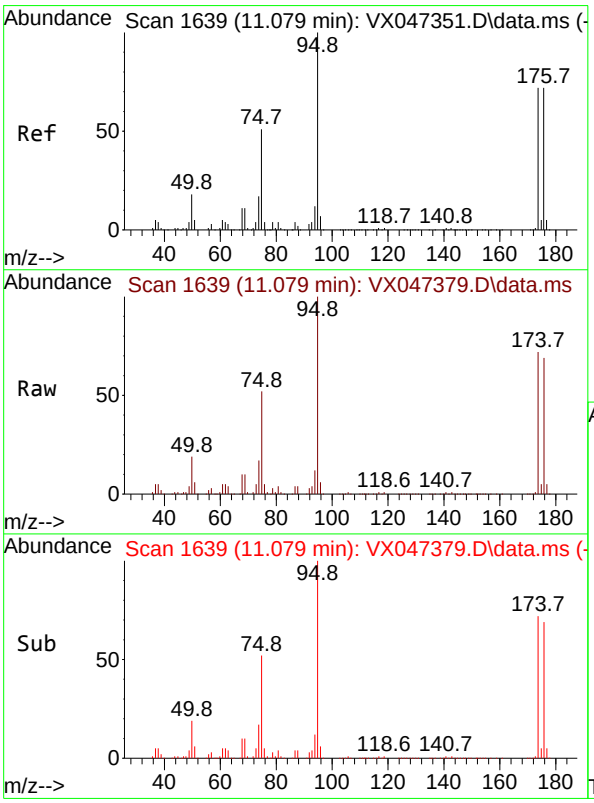
#50
Toluene-d8
Concen: 50.539 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047379.D
Acq: 18 Aug 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-E

Tgt Ion: 98 Resp: 710342

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.9	80.9

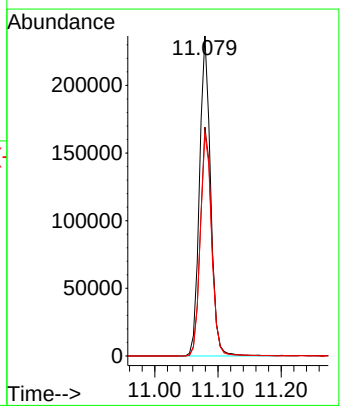


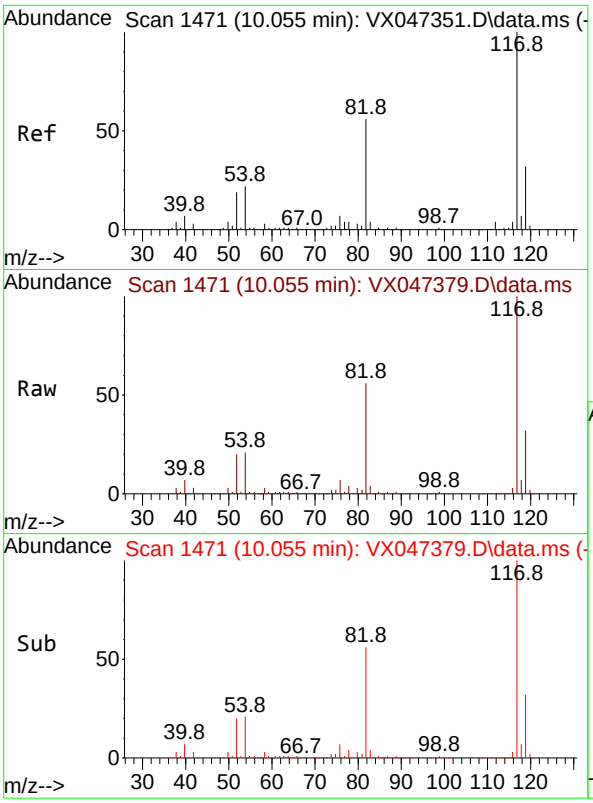


#62
4-Bromofluorobenzene
Concen: 55.676 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047379.D
Acq: 18 Aug 2025 14:10

Tgt Ion: 95 Resp: 288770

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	148.0
176	71.0	0.0	145.4



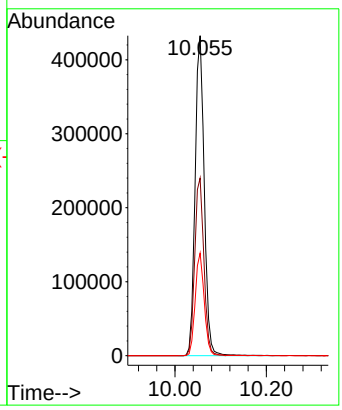


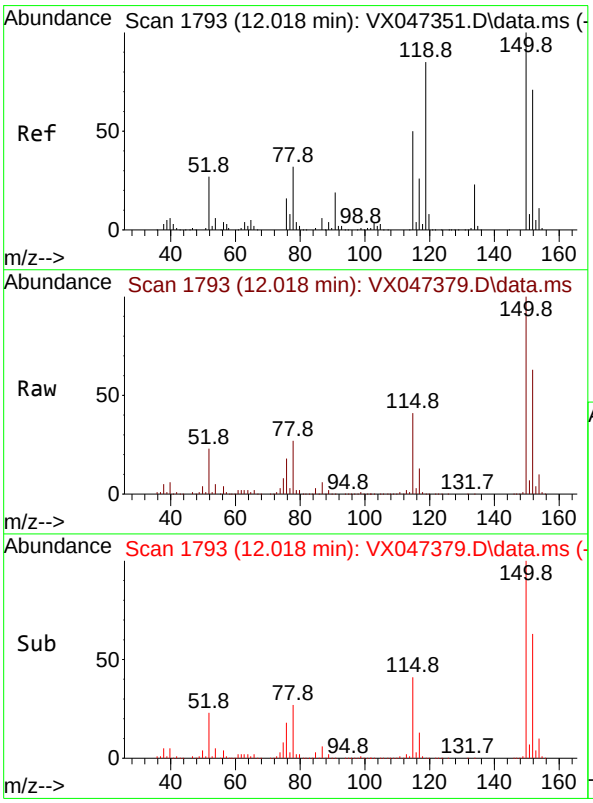
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047379.D
Acq: 18 Aug 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-E

Tgt Ion:117 Resp: 599545

Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.0	67.4
119	32.0	25.8	38.8

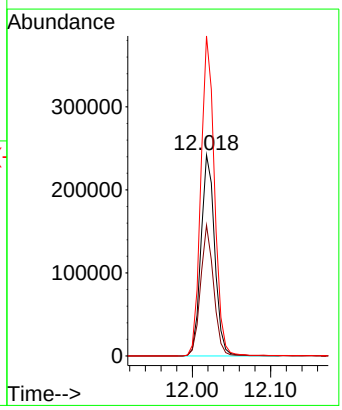




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047379.D
Acq: 18 Aug 2025 14:10

Tgt Ion:152 Resp: 294795

Ion	Ratio	Lower	Upper
152	100		
115	62.2	44.6	133.8
150	157.6	0.0	349.8



Sample Results: **VX047379.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047379.D
Acq On : 18 Aug 2025 14:10
Operator : JC/MD
Sample : Q2815-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-E

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047379.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	24	29	45	rBV	281632	733463	38.29%	6.417%
2	2.392	208	214	223	rBV	9448	20866	1.09%	0.183%
3	2.532	232	237	247	rBV2	12100	24682	1.29%	0.216%
4	5.397	691	707	724	rBV2	204480	656441	34.27%	5.743%
5	5.568	724	735	757	rVB	304695	948171	49.49%	8.295%
6	5.964	789	800	821	rBV	221889	641257	33.47%	5.610%
7	6.769	920	932	959	rBV	565402	1434366	74.87%	12.549%
8	8.653	1234	1241	1265	rBV	1179451	1915693	100.00%	16.760%
9	10.055	1465	1471	1488	rBV	1318410	1852614	96.71%	16.208%
10	11.079	1634	1639	1657	rBV	1115921	1369456	71.49%	11.981%
11	12.018	1788	1793	1807	rBV	1532865	1833318	95.70%	16.039%

Sum of corrected areas: 11430327

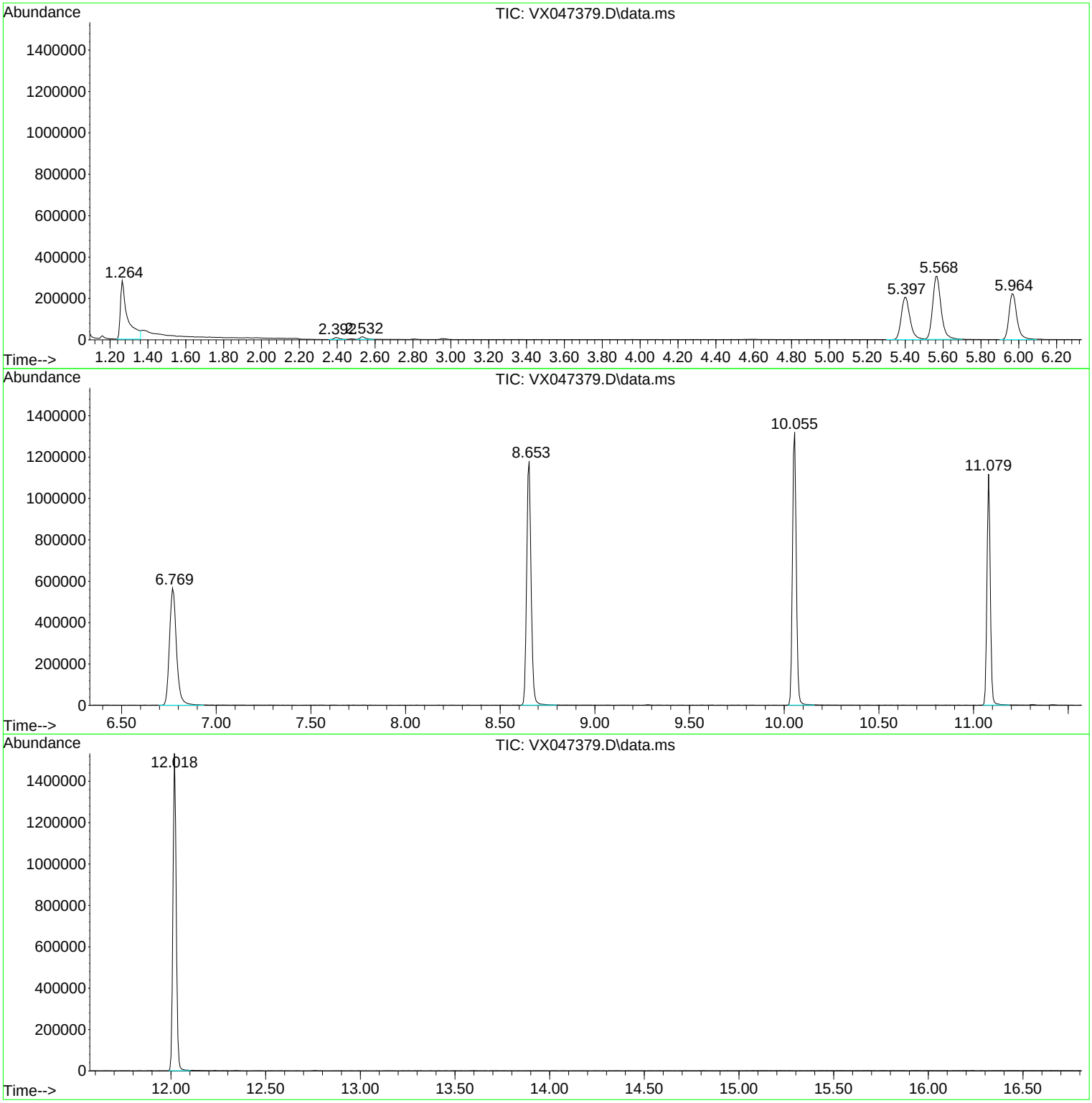
Sample Results: **VX047379.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047379.D
Acq On : 18 Aug 2025 14:10
Operator : JC/MD
Sample : Q2815-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047379.D
Acq On : 18 Aug 2025 14:10
Operator : JC/MD
Sample : Q2815-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081825\
Data File : VX047379.D
Acq On : 18 Aug 2025 14:10
Operator : JC/MD
Sample : Q2815-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-04	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
VX047380.D	1	08/18/25 14:31	VX081825

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	5.40		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:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-04	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
VX047380.D	1	08/18/25 14:31	VX081825

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	54.3		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.3		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.5		85 - 114		111%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	310000	5.562				
540-36-3	1,4-Difluorobenzene	608000	6.769				
3114-55-4	Chlorobenzene-d5	591000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	297000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-04	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
VX047380.D	1	08/18/25 14:31	VX081825

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\VX081825\
Data File : VX047380.D
Acq On : 18 Aug 2025 14:31
Operator : JC/MD
Sample : Q2815-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-S

Quant Time: Aug 19 01:42:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

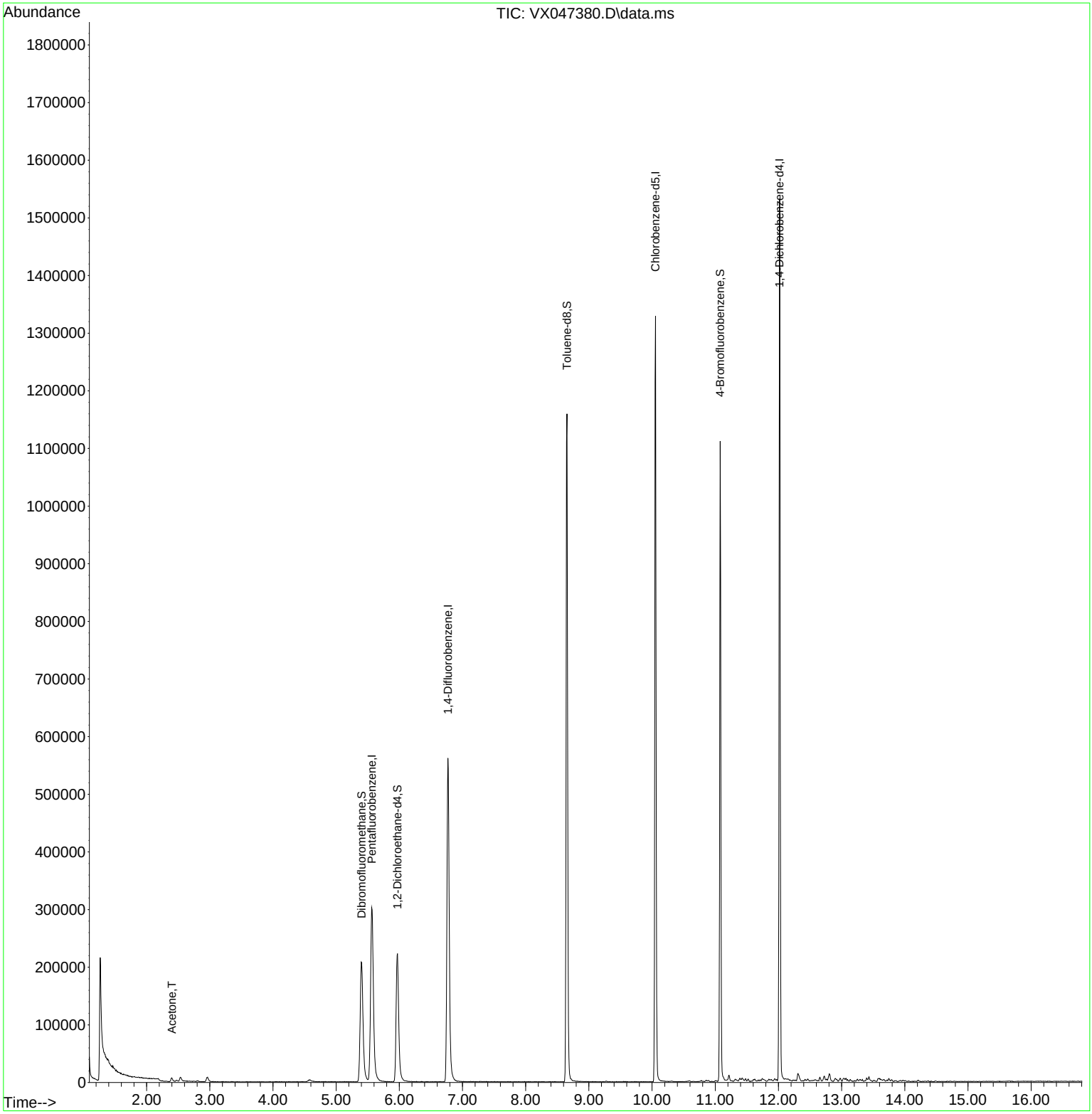
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	309908	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	607870	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	591077	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	297143	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	235710	54.345	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.700%			
35) Dibromofluoromethane	5.403	113	200682	50.868	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.740%			
50) Toluene-d8	8.653	98	709656	50.327	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.660%			
62) 4-Bromofluorobenzene	11.079	95	288877	55.516	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.040%			
Target Compounds						Qvalue
16) Acetone	2.398	43	8764	5.376	ug/l	96

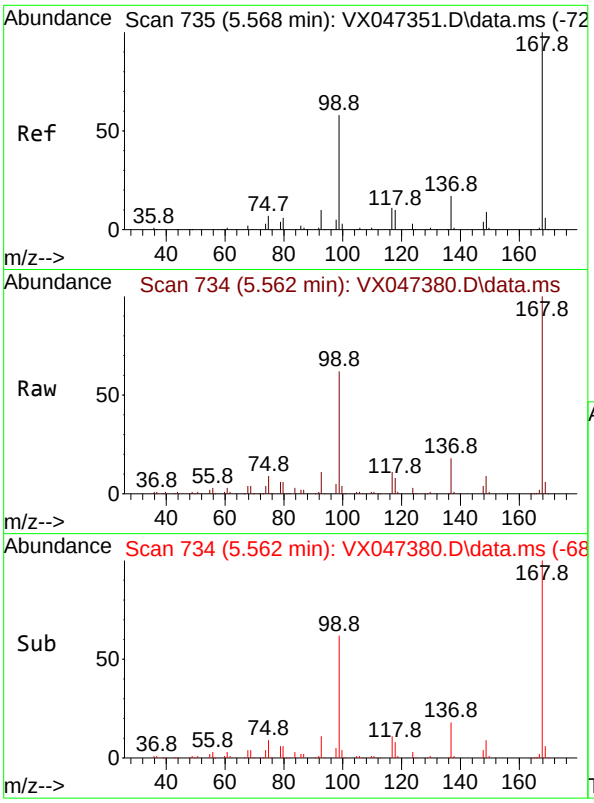
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047380.D
Acq On : 18 Aug 2025 14:31
Operator : JC/MD
Sample : Q2815-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-S

Quant Time: Aug 19 01:42:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



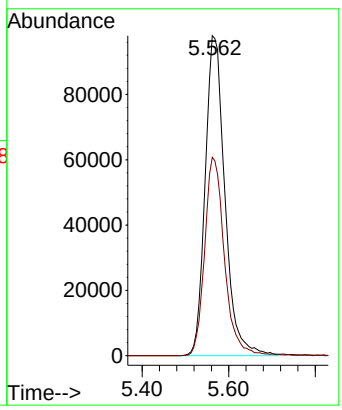


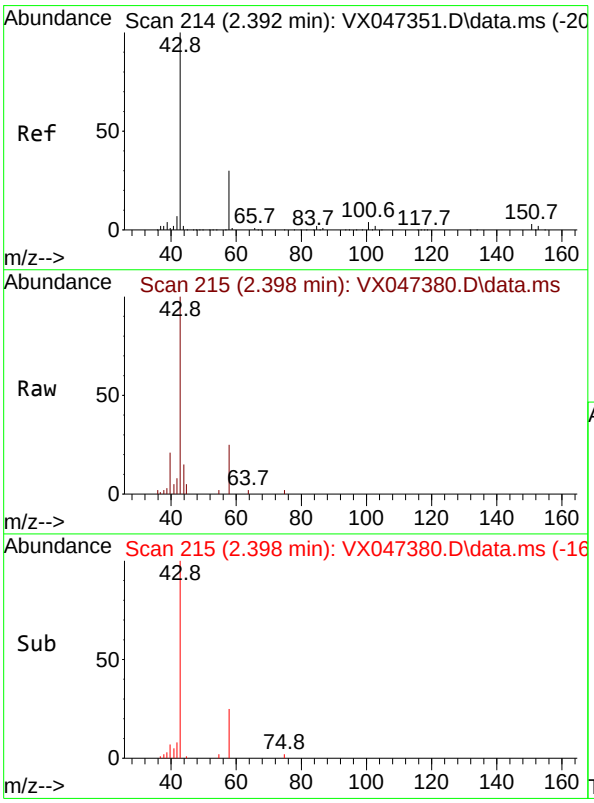
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047380.D
Acq: 18 Aug 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-S

Tgt Ion:168 Resp: 309908

Ion	Ratio	Lower	Upper
168	100		
99	62.0	47.9	71.9

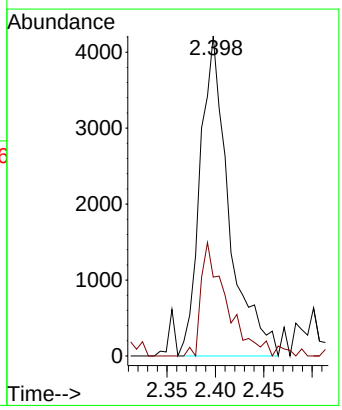


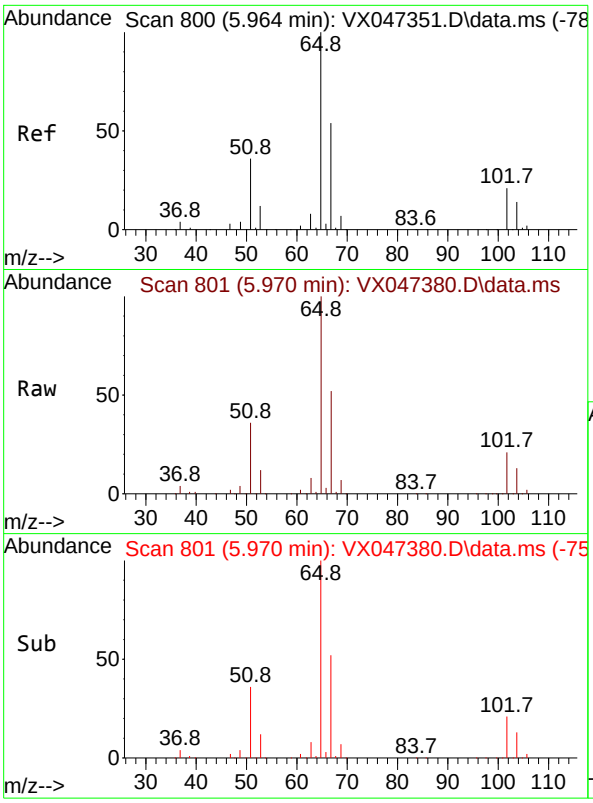


#16
Acetone
Concen: 5.376 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047380.D
Acq: 18 Aug 2025 14:31

Tgt Ion: 43 Resp: 8764

Ion	Ratio	Lower	Upper
43	100		
58	28.7	24.8	37.2



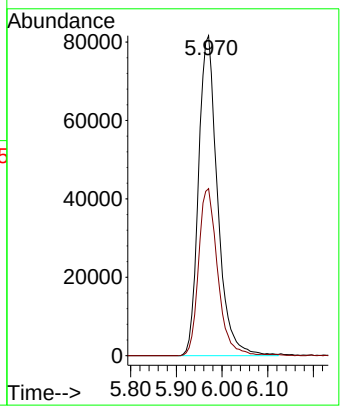


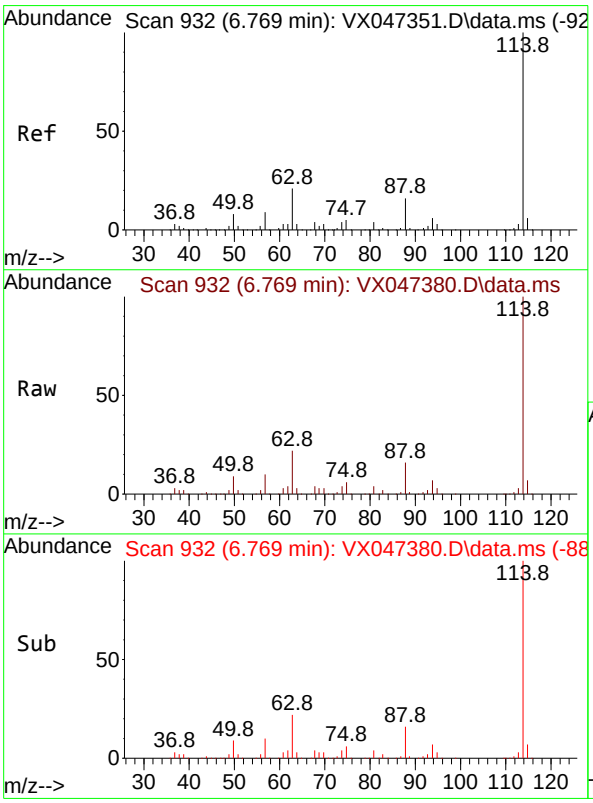
#33
1,2-Dichloroethane-d4
Concen: 54.345 ug/l
RT: 5.970 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047380.D
Acq: 18 Aug 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-S

Tgt Ion: 65 Resp: 235710

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	106.0

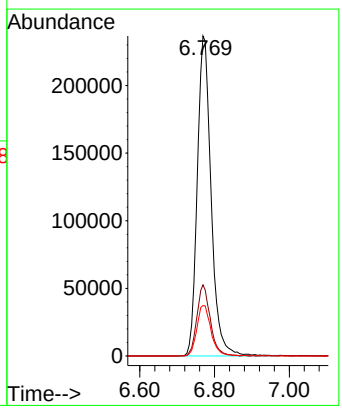


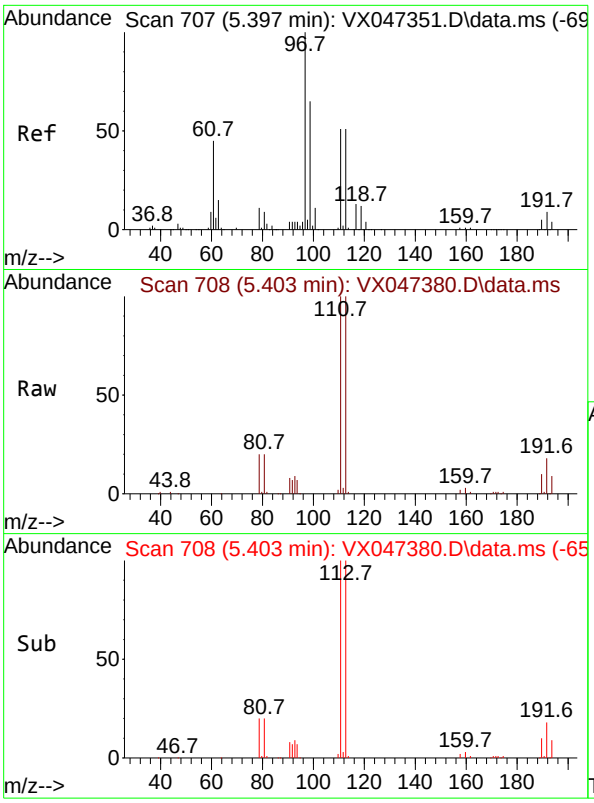


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047380.D
Acq: 18 Aug 2025 14:31

Tgt Ion:114 Resp: 607870

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	42.4
88	15.8	0.0	33.0



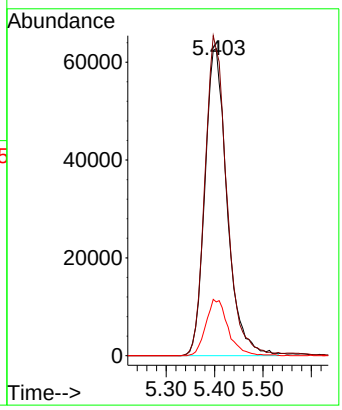


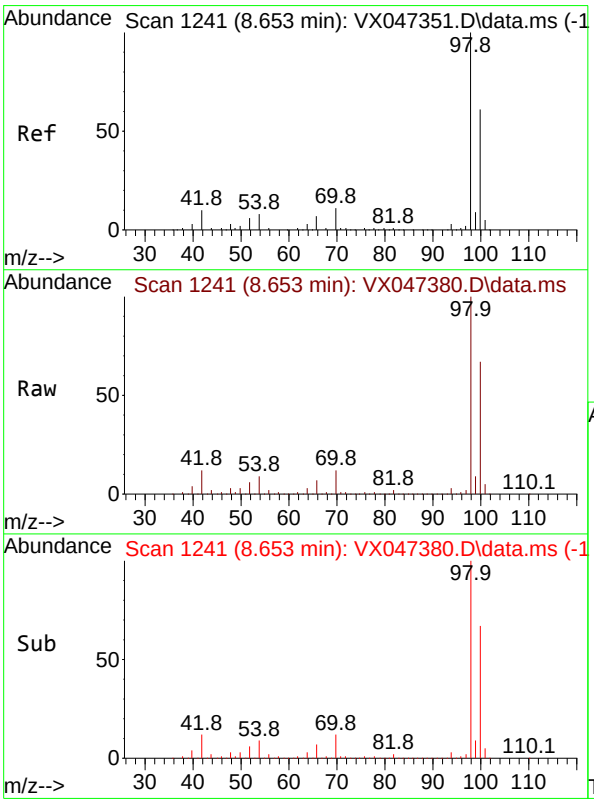
#35
Dibromofluoromethane
Concen: 50.868 ug/l
RT: 5.403 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047380.D
Acq: 18 Aug 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-S

Tgt Ion:113 Resp: 200682

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.4	122.2
192	18.3	14.1	21.1

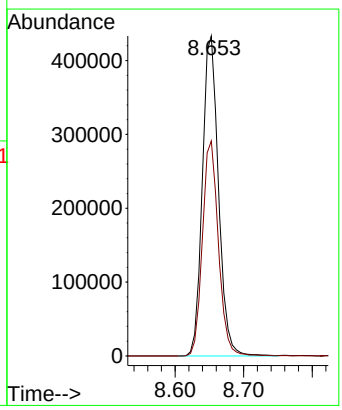


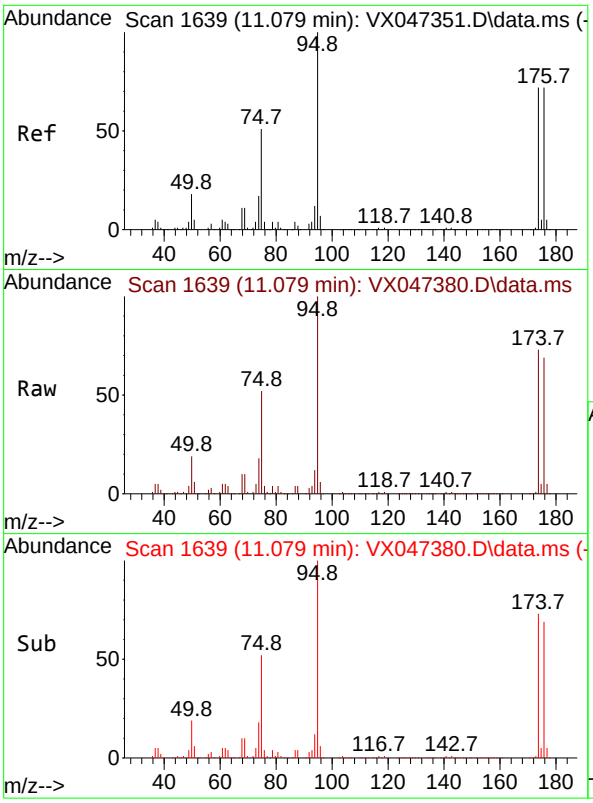


#50
Toluene-d8
Concen: 50.327 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047380.D
Acq: 18 Aug 2025 14:31

Tgt Ion: 98 Resp: 709656

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.9	80.9



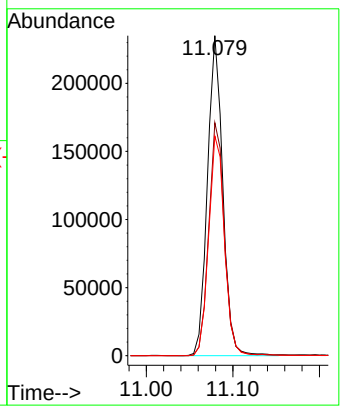


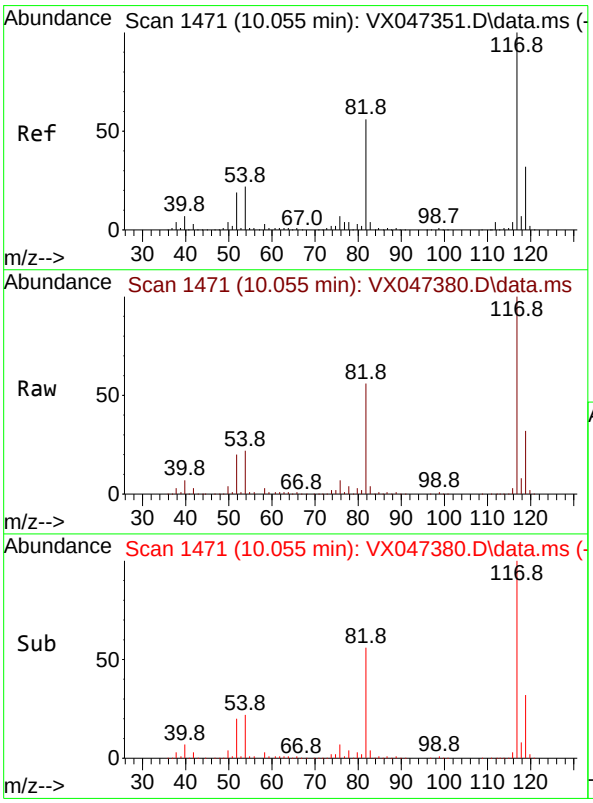
#62
4-Bromofluorobenzene
Concen: 55.516 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047380.D
Acq: 18 Aug 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-S

Tgt Ion: 95 Resp: 288877

Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	148.0
176	70.9	0.0	145.4

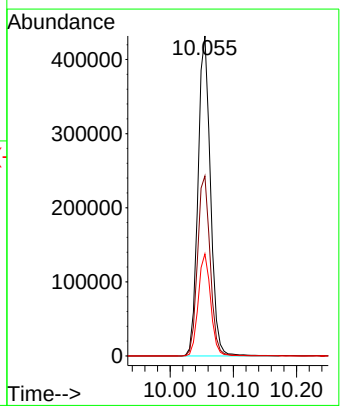


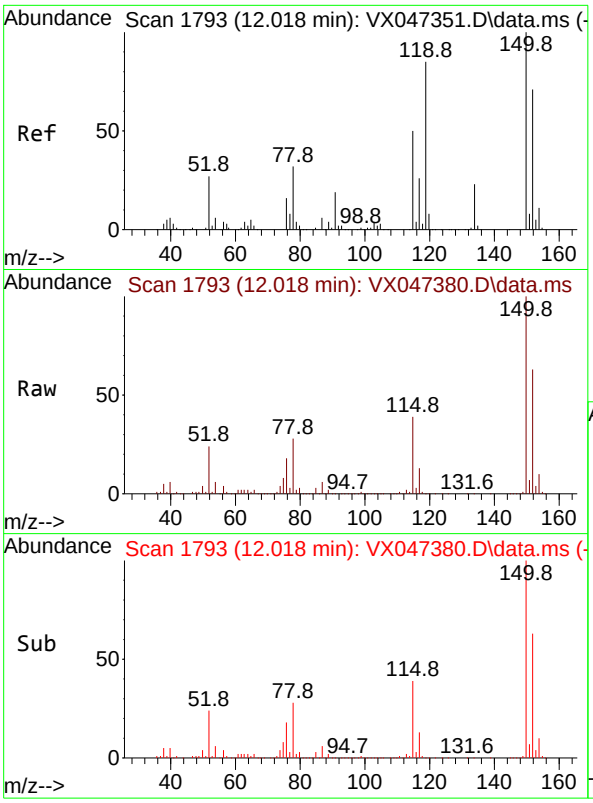


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047380.D
Acq: 18 Aug 2025 14:31

Tgt Ion:117 Resp: 591077

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.0	67.4
119	31.9	25.8	38.8



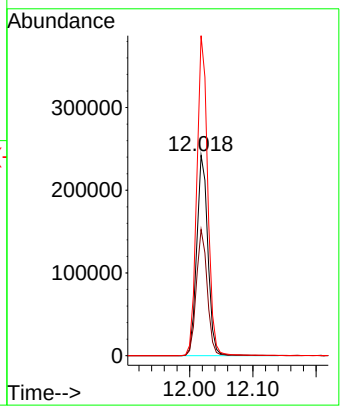


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047380.D
Acq: 18 Aug 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-S

Tgt Ion:152 Resp: 297143

Ion	Ratio	Lower	Upper
152	100		
115	61.7	44.6	133.8
150	157.1	0.0	349.8



Sample Results: **VX047380.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047380.D
Acq On : 18 Aug 2025 14:31
Operator : JC/MD
Sample : Q2815-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-S

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047380.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	24	29	45	rBV	212838	582904	30.53%	5.152%
2	5.397	695	707	724	rBV2	207653	660635	34.60%	5.839%
3	5.562	724	734	754	rVB	300232	940583	49.27%	8.313%
4	5.970	788	801	821	rBV	222759	646781	33.88%	5.716%
5	6.769	923	932	953	rBV	561337	1436369	75.23%	12.695%
6	8.653	1234	1241	1251	rBV	1158678	1909228	100.00%	16.874%
7	10.055	1465	1471	1485	rBV	1328201	1837480	96.24%	16.240%
8	11.079	1634	1639	1653	rBV	1109841	1381870	72.38%	12.213%
9	11.219	1656	1662	1672	rVB7	10669	20338	1.07%	0.180%
10	12.018	1788	1793	1805	rBV	1529970	1842343	96.50%	16.283%
11	12.311	1837	1841	1851	rVB7	12981	28148	1.47%	0.249%
12	12.804	1917	1922	1932	rVB6	13226	28028	1.47%	0.248%

Sum of corrected areas: 11314707

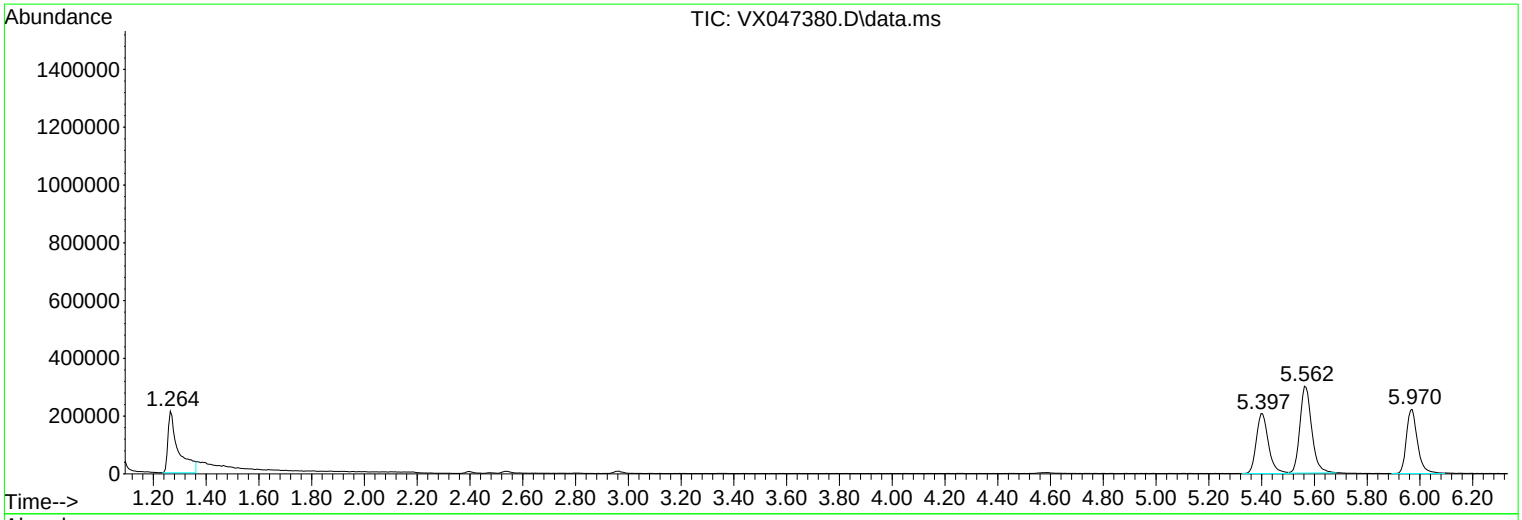
Sample Results: **VX047380.D**

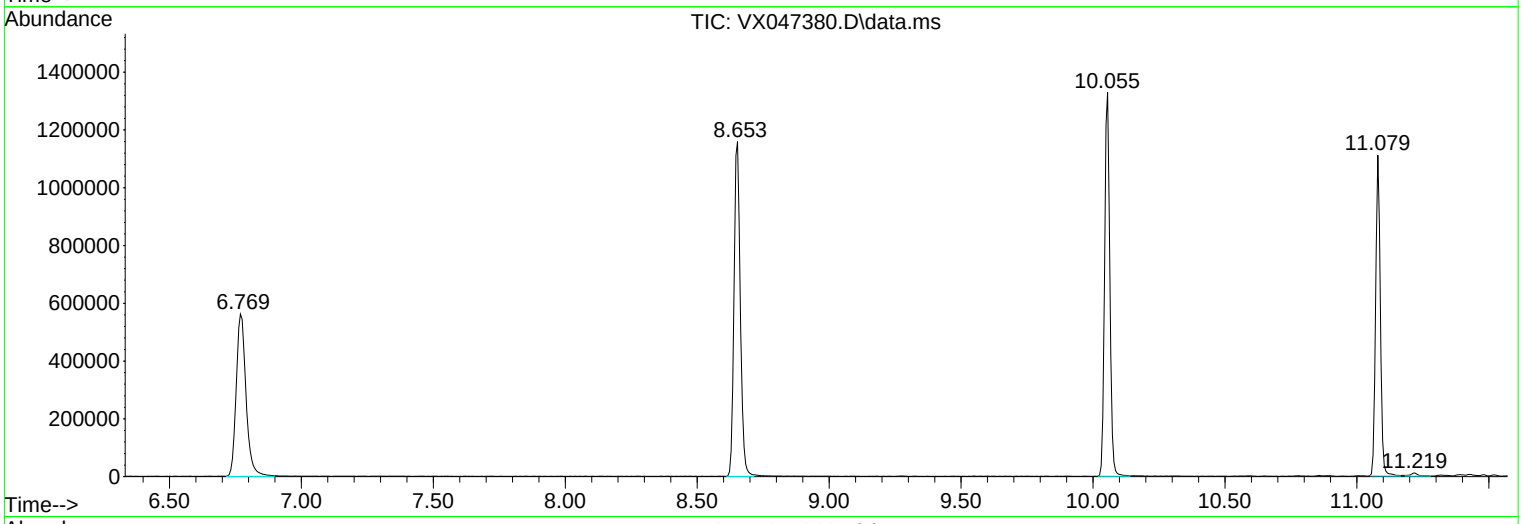
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047380.D
Acq On : 18 Aug 2025 14:31
Operator : JC/MD
Sample : Q2815-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

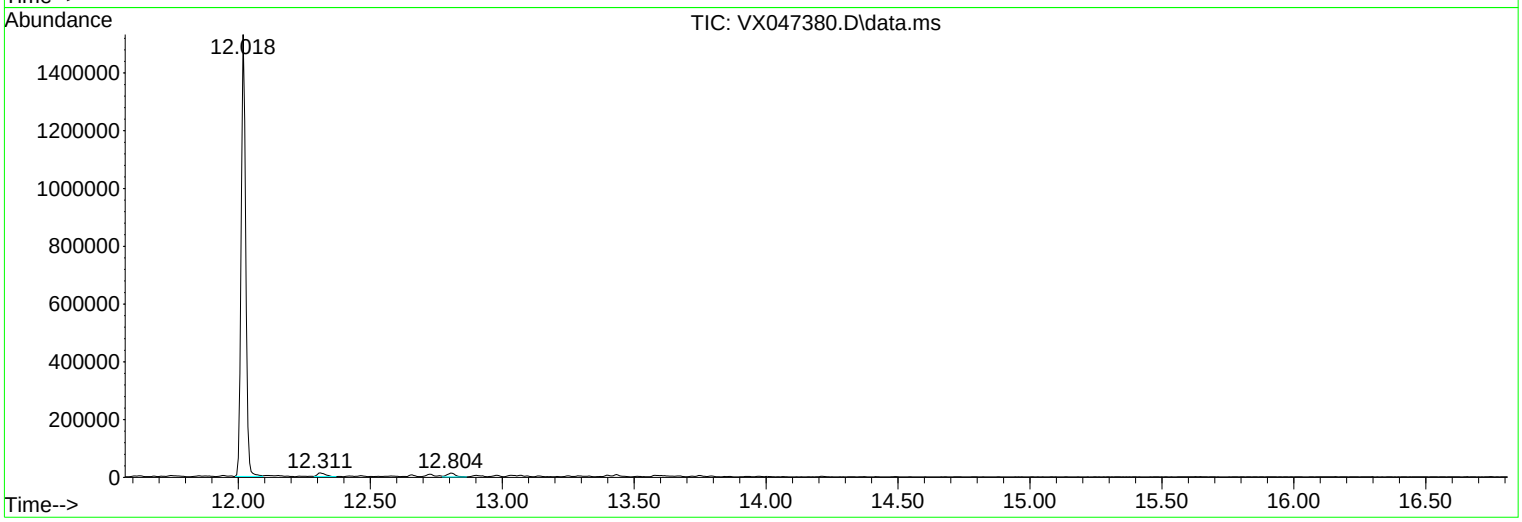
Instrument :
MSVOA_X
ClientSampleId :
TW-10P-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047380.D
Acq On : 18 Aug 2025 14:31
Operator : JC/MD
Sample : Q2815-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047380.D
Acq On : 18 Aug 2025 14:31
Operator : JC/MD
Sample : Q2815-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-05	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
VX047381.D	1	08/18/25 14:53	VX081825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	4.20	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	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

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-05	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
VX047381.D	1	08/18/25 14:53	VX081825

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	54.2		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	50.4		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.1		85 - 114		110%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	310000	5.568				
540-36-3	1,4-Difluorobenzene	614000	6.769				
3114-55-4	Chlorobenzene-d5	600000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	298000	12.018				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-05	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
VX047381.D	1	08/18/25 14:53	VX081825

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\VX081825\
Data File : VX047381.D
Acq On : 18 Aug 2025 14:53
Operator : JC/MD
Sample : Q2815-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-W

Quant Time: Aug 19 01:43:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

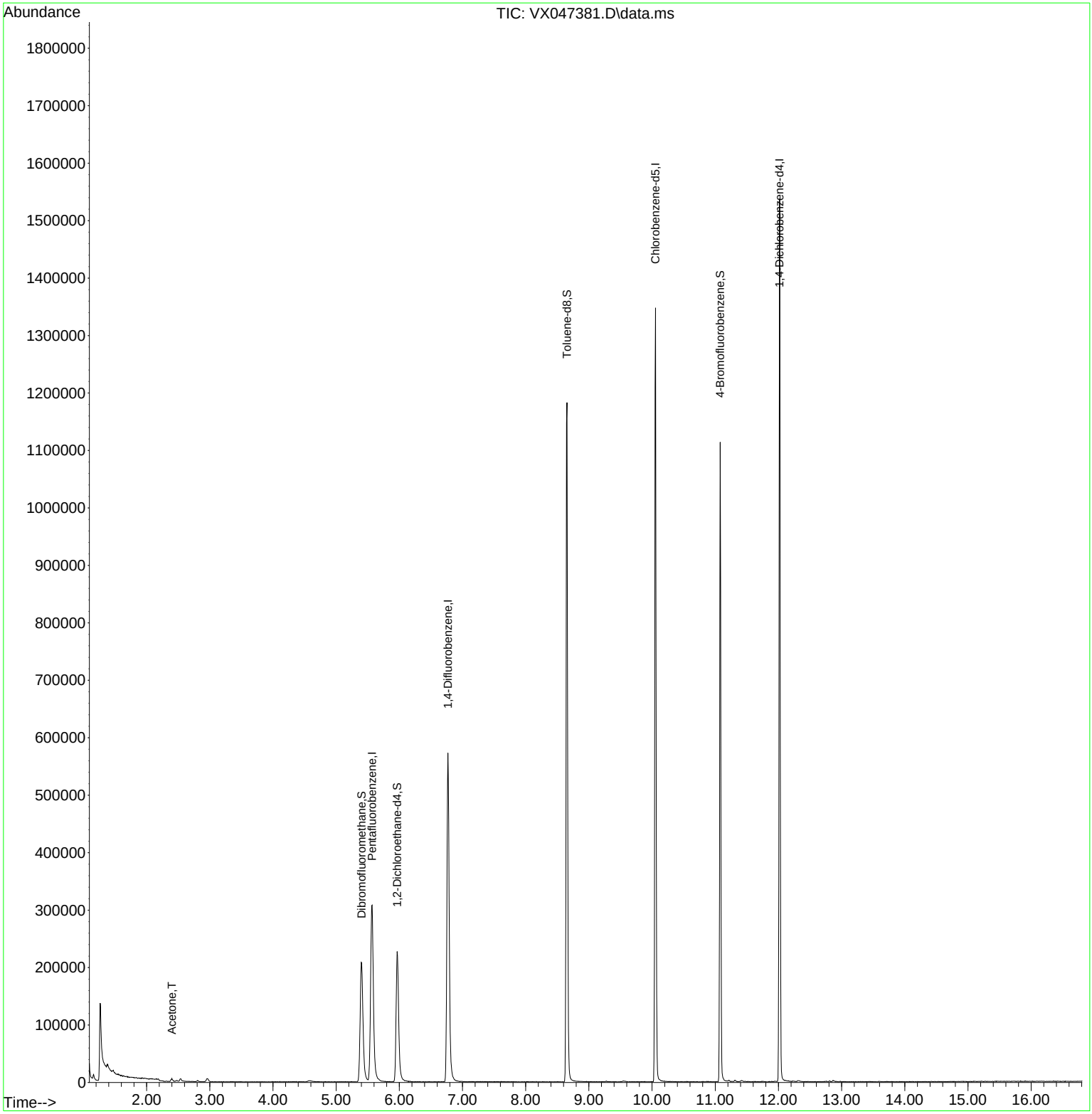
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	309685	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	613603	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	600484	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	297817	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	234917	54.202	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.400%			
35) Dibromofluoromethane	5.403	113	199891	50.194	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.380%			
50) Toluene-d8	8.653	98	716925	50.367	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.740%			
62) 4-Bromofluorobenzene	11.079	95	289159	55.051	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.100%			
Target Compounds						Qvalue
16) Acetone	2.398	43	6805	4.177	ug/l #	88

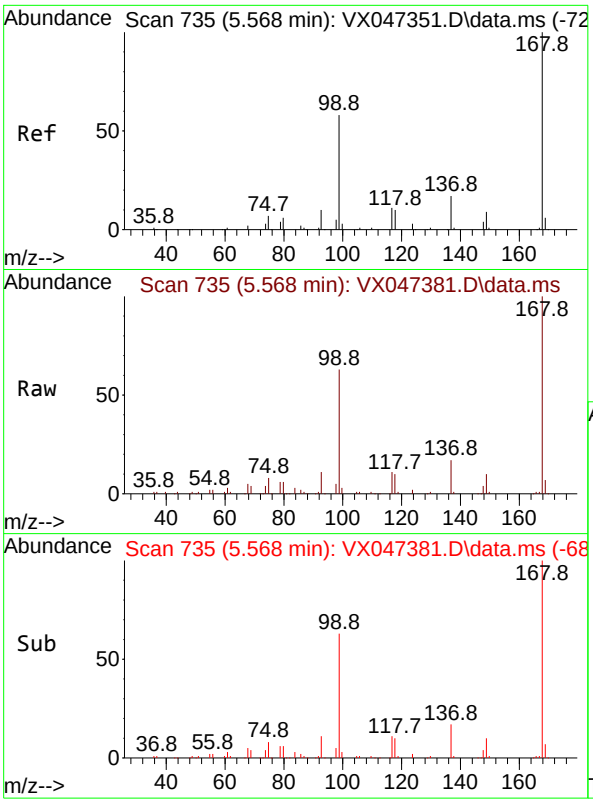
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047381.D
Acq On : 18 Aug 2025 14:53
Operator : JC/MD
Sample : Q2815-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-W

Quant Time: Aug 19 01:43:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



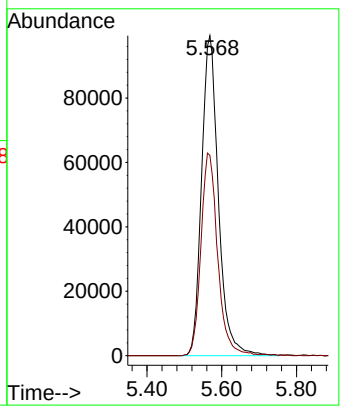


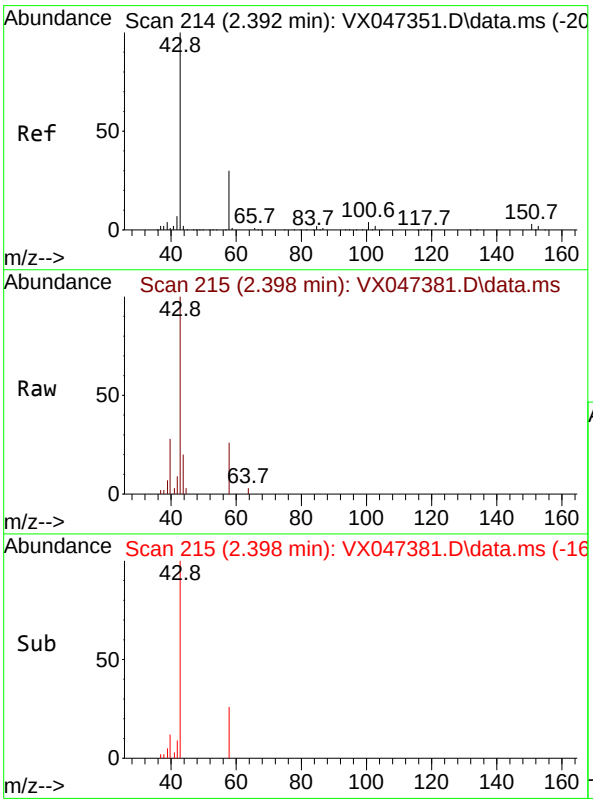
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047381.D
Acq: 18 Aug 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-W

Tgt Ion:168 Resp: 309685

Ion	Ratio	Lower	Upper
168	100		
99	62.6	47.9	71.9

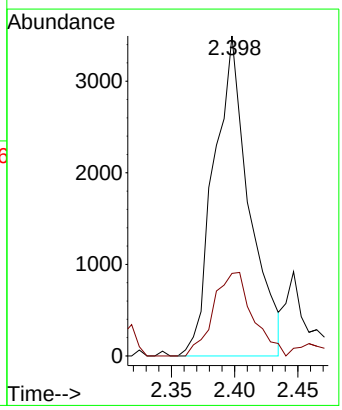


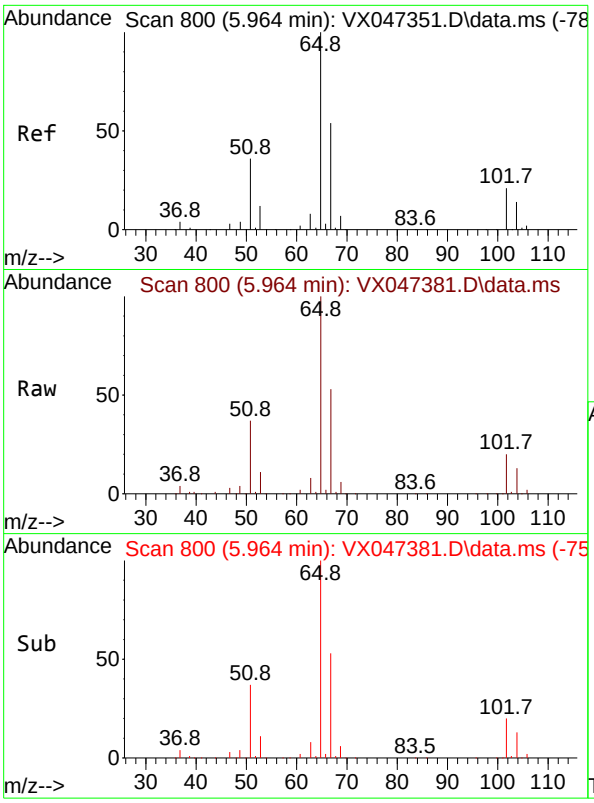


#16
Acetone
Concen: 4.177 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047381.D
Acq: 18 Aug 2025 14:53

Tgt Ion: 43 Resp: 6805

Ion	Ratio	Lower	Upper
43	100		
58	24.3	24.8	37.2#



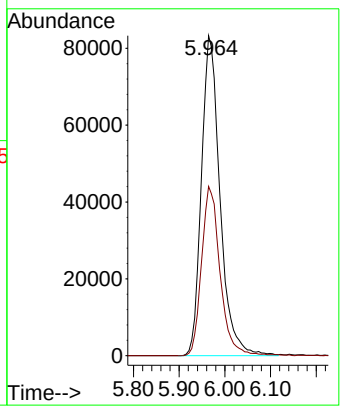


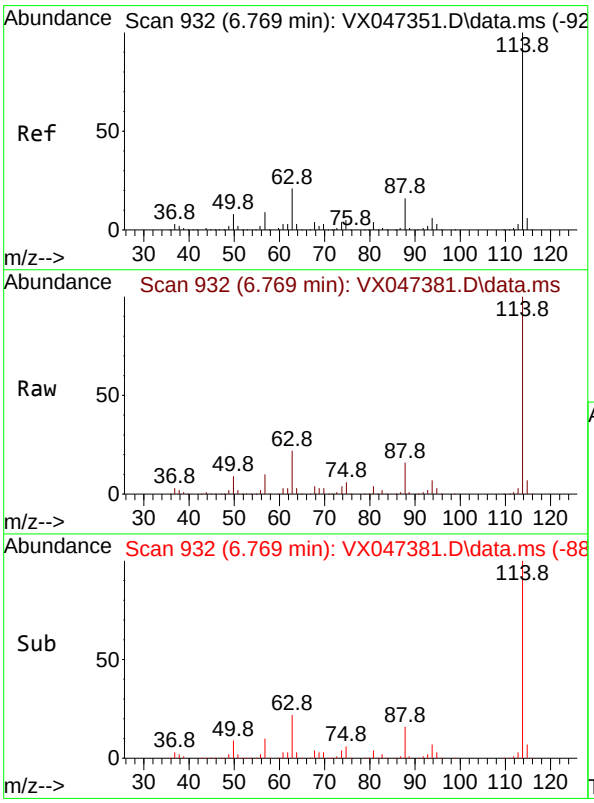
#33
1,2-Dichloroethane-d4
Concen: 54.202 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047381.D
Acq: 18 Aug 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-W

Tgt Ion: 65 Resp: 234917

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	106.0

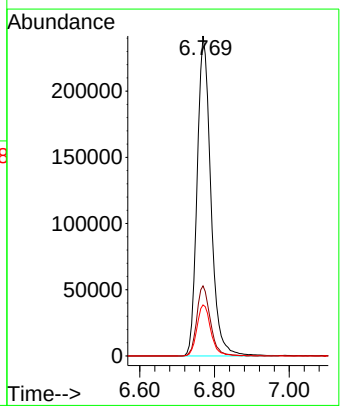


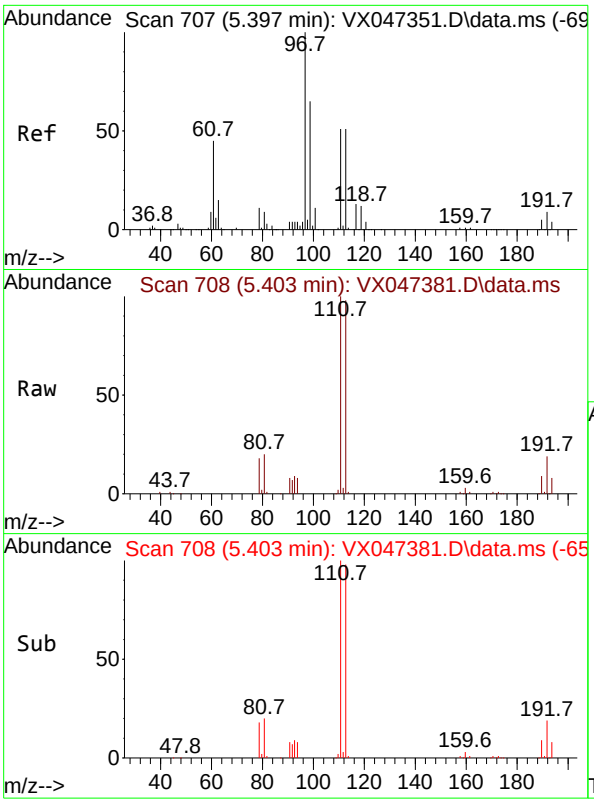


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047381.D
Acq: 18 Aug 2025 14:53

Tgt Ion:114 Resp: 613603

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	42.4
88	16.0	0.0	33.0



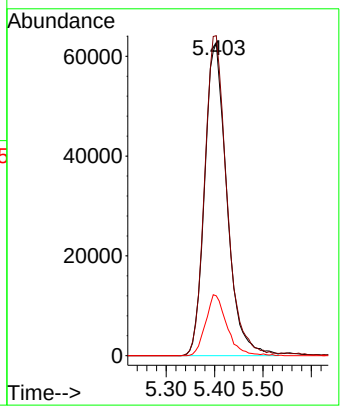


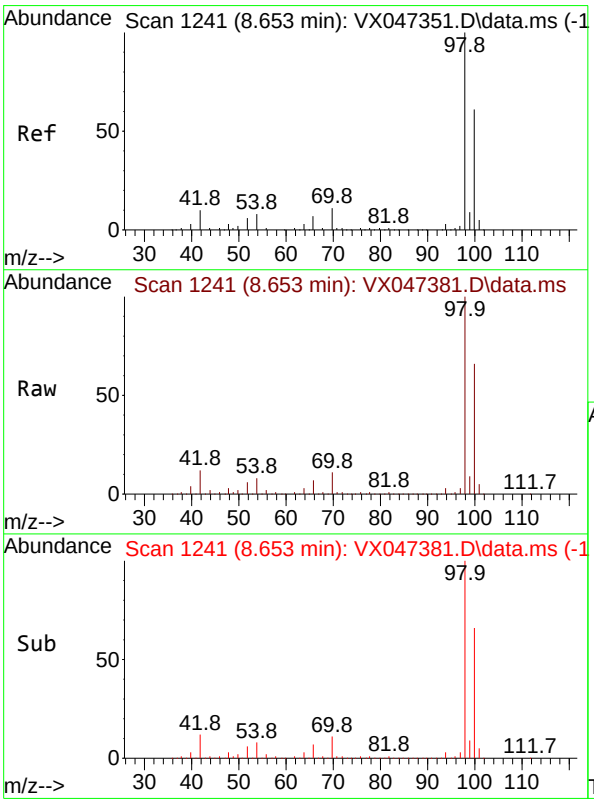
#35
Dibromofluoromethane
Concen: 50.194 ug/l
RT: 5.403 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047381.D
Acq: 18 Aug 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-W

Tgt Ion:113 Resp: 199891

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.4	122.2
192	18.8	14.1	21.1

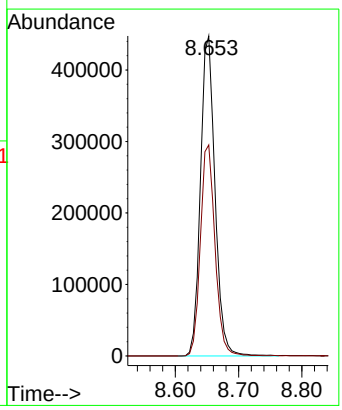


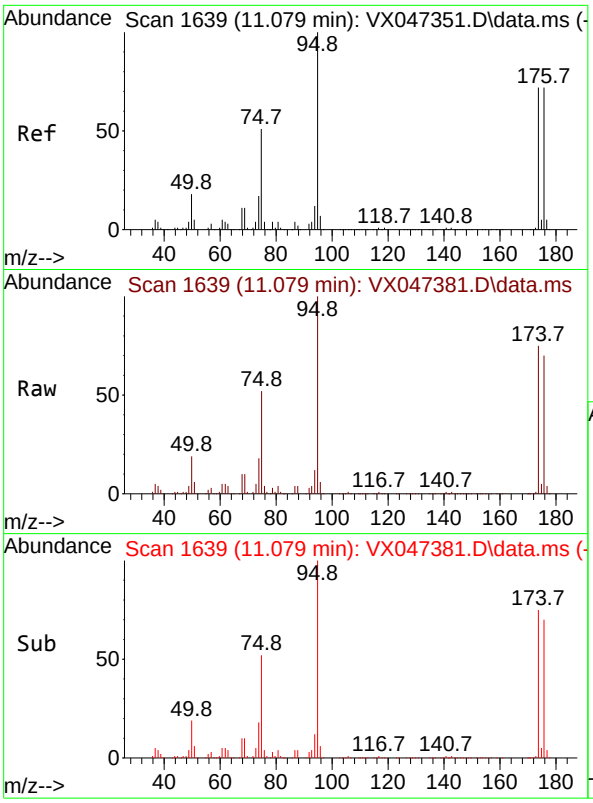


#50
Toluene-d8
Concen: 50.367 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047381.D
Acq: 18 Aug 2025 14:53

Tgt Ion: 98 Resp: 716925

Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.9	80.9



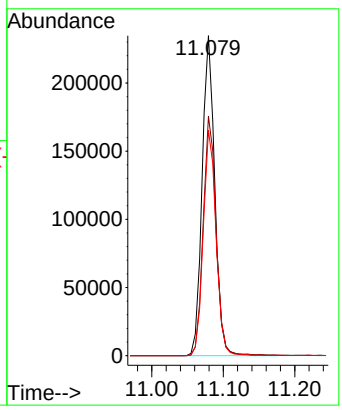


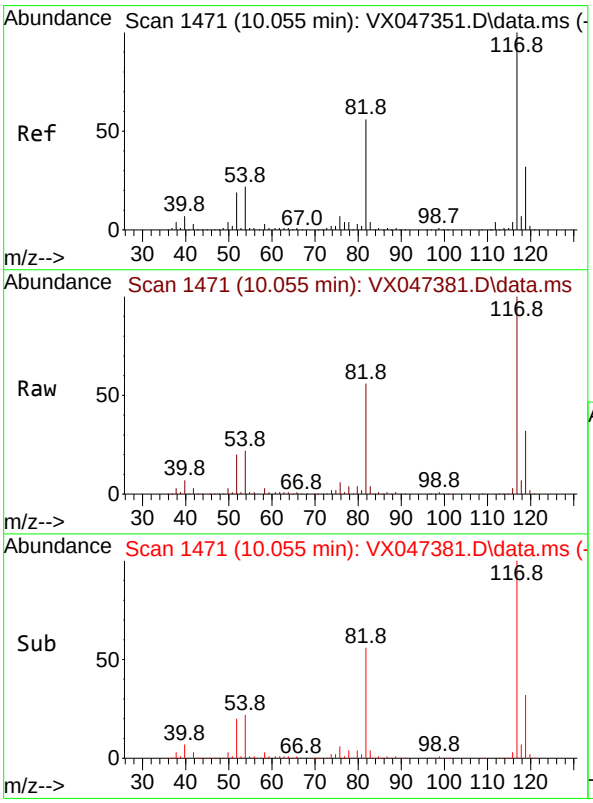
#62
4-Bromofluorobenzene
Concen: 55.051 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047381.D
Acq: 18 Aug 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-W

Tgt Ion: 95 Resp: 289159

Ion	Ratio	Lower	Upper
95	100		
174	75.9	0.0	148.0
176	71.3	0.0	145.4

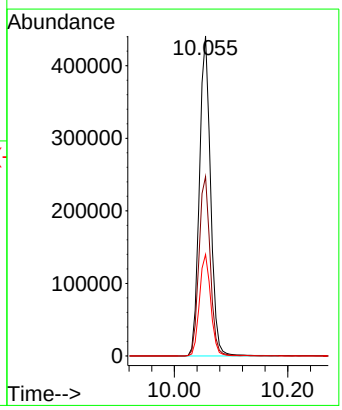


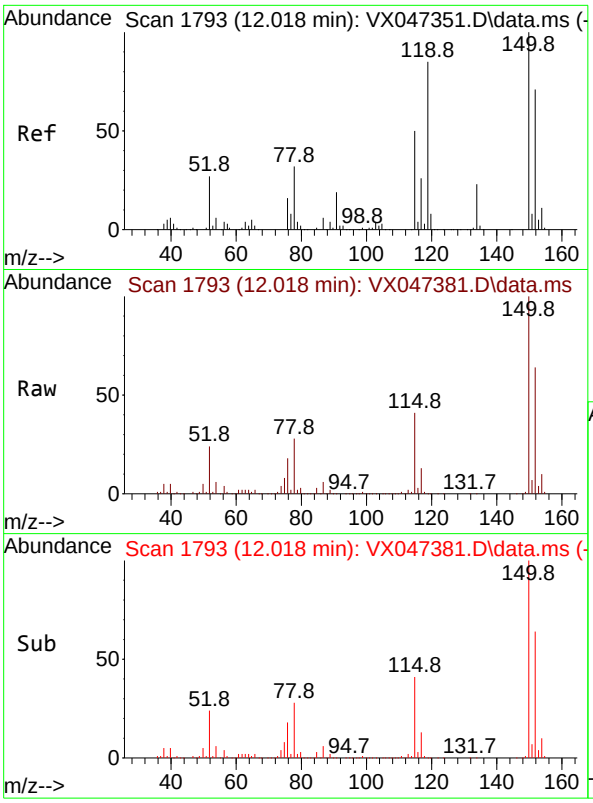


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047381.D
Acq: 18 Aug 2025 14:53

Tgt Ion:117 Resp: 600484

Ion	Ratio	Lower	Upper
117	100		
82	56.1	45.0	67.4
119	31.7	25.8	38.8



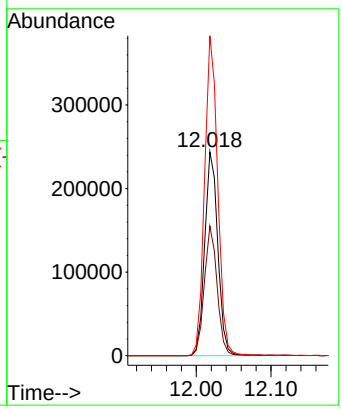


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047381.D
Acq: 18 Aug 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-W

Tgt Ion:152 Resp: 297817

Ion	Ratio	Lower	Upper
152	100		
115	62.1	44.6	133.8
150	157.1	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047381.D
Acq On : 18 Aug 2025 14:53
Operator : JC/MD
Sample : Q2815-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-W

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047381.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	24	29	45	rBV	134356	368061	19.06%	3.293%
2	1.374	45	47	59	rVB5	13267	41345	2.14%	0.370%
3	5.397	694	707	724	rBV4	208056	661192	34.24%	5.916%
4	5.568	724	735	760	rVB	306597	963795	49.92%	8.624%
5	5.964	791	800	820	rBV	226723	644319	33.37%	5.765%
6	6.769	922	932	955	rBV	572388	1451596	75.18%	12.988%
7	8.653	1234	1241	1257	rBV	1181971	1930871	100.00%	17.276%
8	10.055	1465	1471	1486	rBV	1346642	1870831	96.89%	16.739%
9	11.079	1634	1639	1654	rBV	1112930	1387647	71.87%	12.416%
10	12.018	1788	1793	1805	rBV	1535753	1856666	96.16%	16.612%

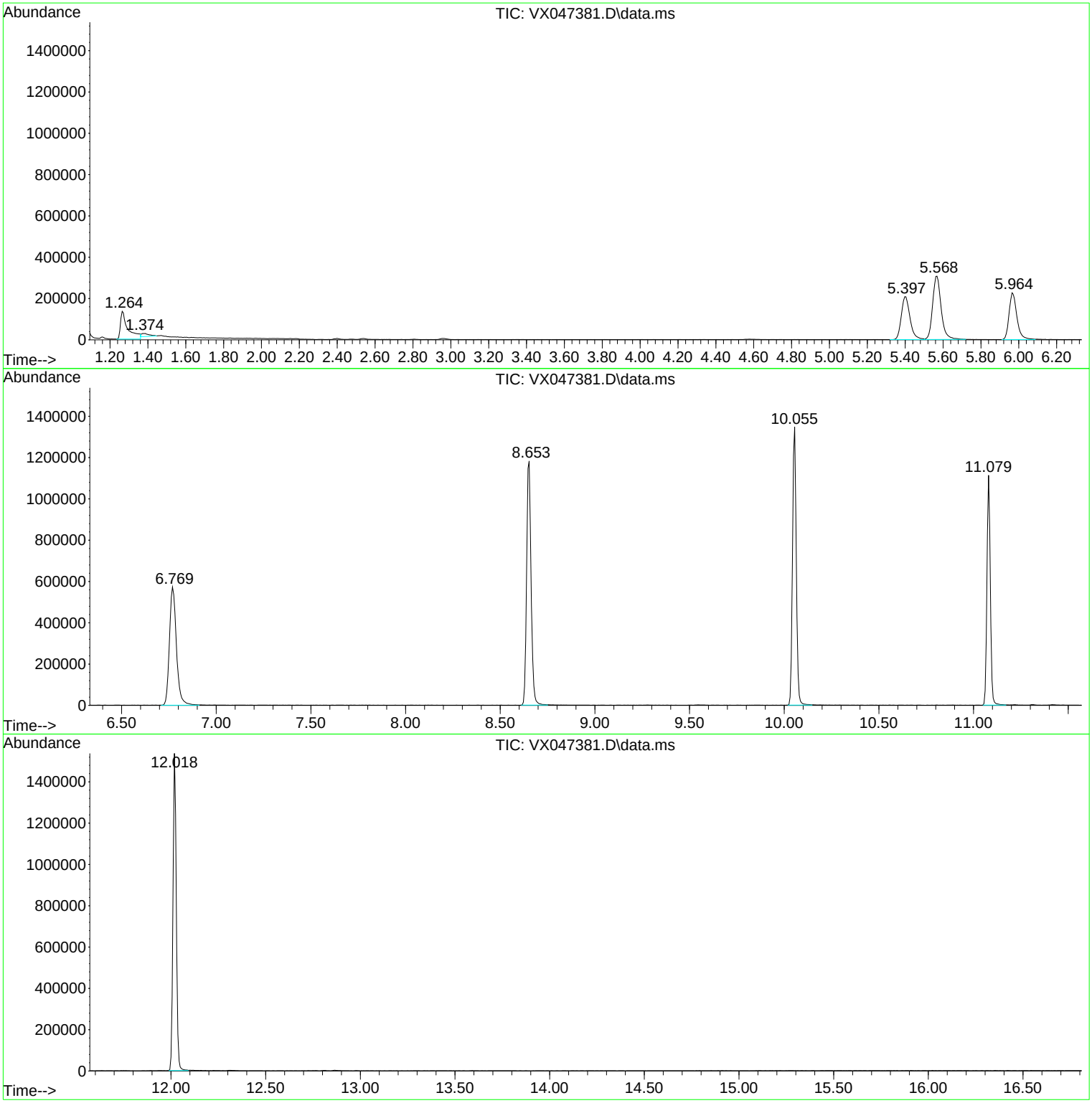
Sum of corrected areas: 11176323

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047381.D
Acq On : 18 Aug 2025 14:53
Operator : JC/MD
Sample : Q2815-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047381.D
Acq On : 18 Aug 2025 14:53
Operator : JC/MD
Sample : Q2815-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081825\
Data File : VX047381.D
Acq On : 18 Aug 2025 14:53
Operator : JC/MD
Sample : Q2815-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-N	SDG No.:	Q2815
Lab Sample ID:	Q2815-06	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
VX047329.D	1	08/13/25 17:40	VX081325

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	7.90		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.45	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	0.51	J	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	0.61	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	0.75	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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-N	SDG No.:	Q2815
Lab Sample ID:	Q2815-06	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
VX047329.D	1	08/13/25 17:40	VX081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.8		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	42.1	*	89 - 112		84%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.6		85 - 114		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	208000	5.568				
540-36-3	1,4-Difluorobenzene	380000	6.775				
3114-55-4	Chlorobenzene-d5	355000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	180000	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-N	SDG No.:	Q2815
Lab Sample ID:	Q2815-06	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
VX047329.D	1	08/13/25 17:40	VX081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
007446-09-5	Sulfur dioxide	7.10	J			1.27	ug/L

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\VX081325\
Data File : VX047329.D
Acq On : 13 Aug 2025 17:40
Operator : JC/MD
Sample : Q2815-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-N

Quant Time: Aug 14 03:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

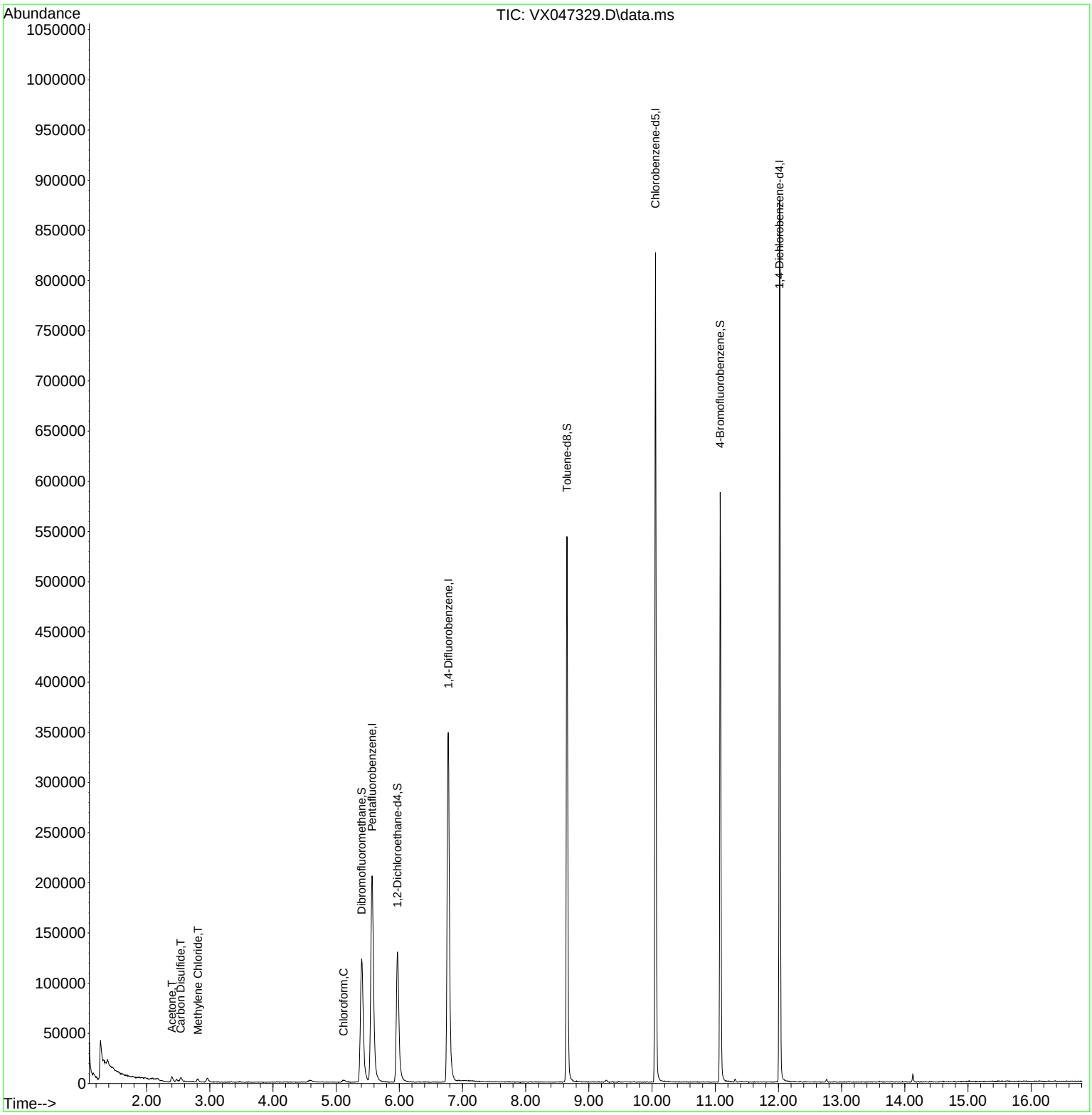
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	208024	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	379571	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	354515	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	179591	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	139384	53.789	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.580%			
35) Dibromofluoromethane	5.403	113	119617	51.040	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.080%			
50) Toluene-d8	8.653	98	319829	42.140	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 84.280%#			
62) 4-Bromofluorobenzene	11.079	95	155728	47.613	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.220%			
Target Compounds						Qvalue
16) Acetone	2.398	43	8178	7.878	ug/l	94
17) Carbon Disulfide	2.538	76	3372	0.446	ug/l #	90
20) Methylene Chloride	2.812	84	1468	0.514	ug/l #	86
30) Chloroform	5.117	83	3126	0.608	ug/l #	81

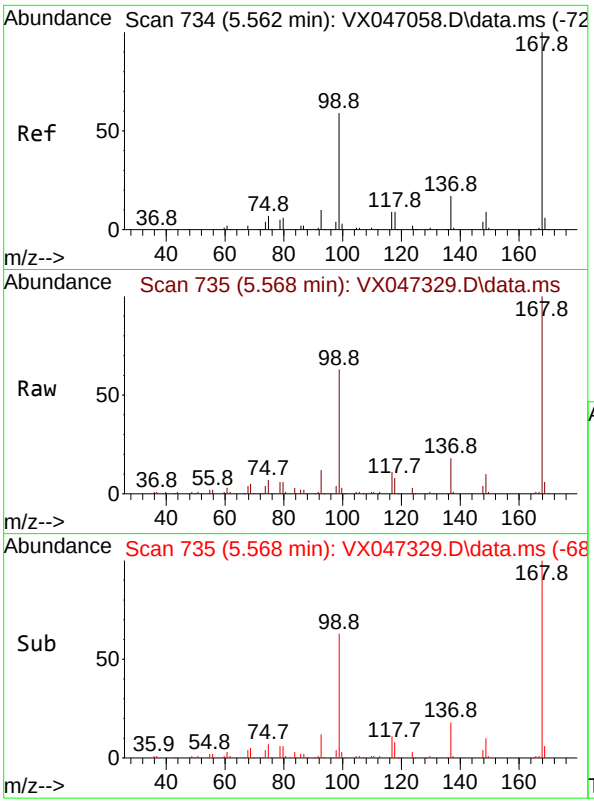
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047329.D
Acq On : 13 Aug 2025 17:40
Operator : JC/MD
Sample : Q2815-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-N

Quant Time: Aug 14 03:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration



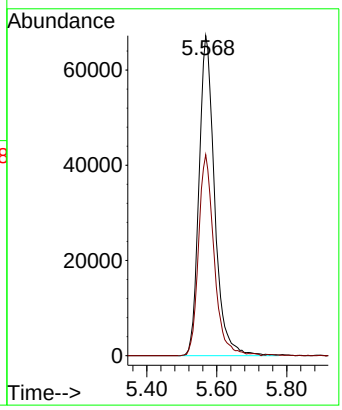


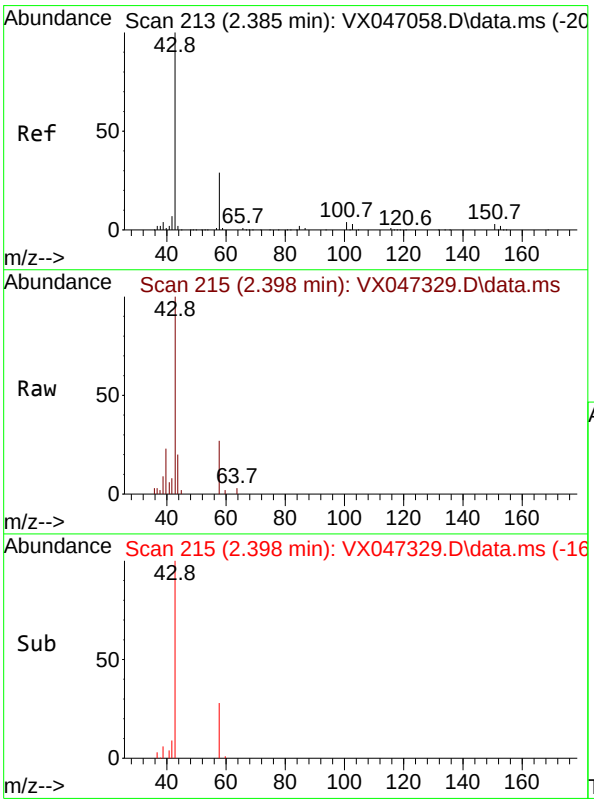
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047329.D
Acq: 13 Aug 2025 17:40

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-N

Tgt Ion:168 Resp: 208024

Ion	Ratio	Lower	Upper
168	100		
99	62.8	48.0	72.0

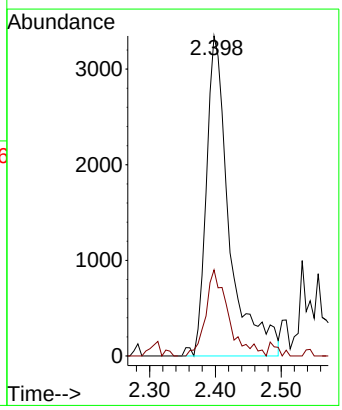


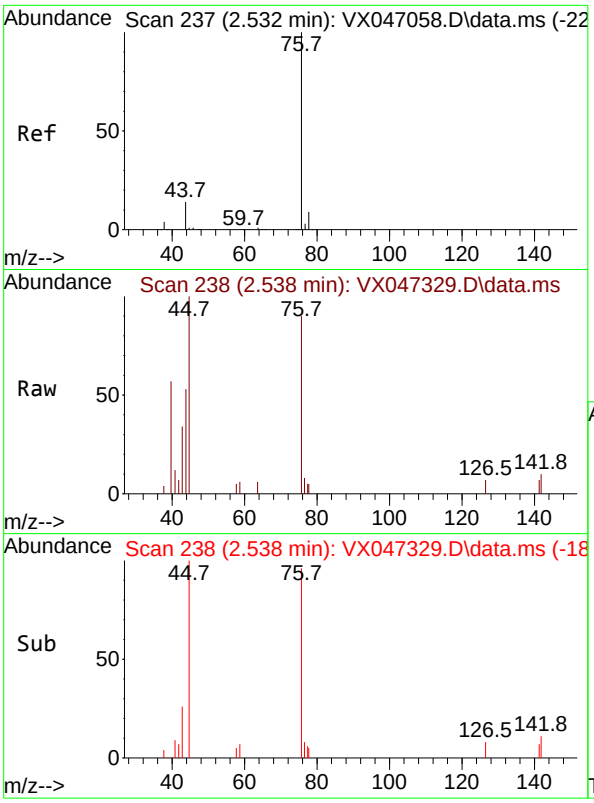


#16
Acetone
Concen: 7.878 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.012 min
Lab File: VX047329.D
Acq: 13 Aug 2025 17:40

Tgt Ion: 43 Resp: 8178

Ion	Ratio	Lower	Upper
43	100		
58	27.0	24.0	36.0



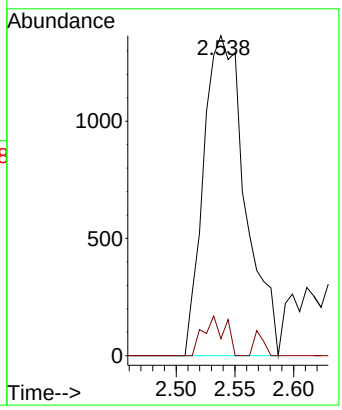


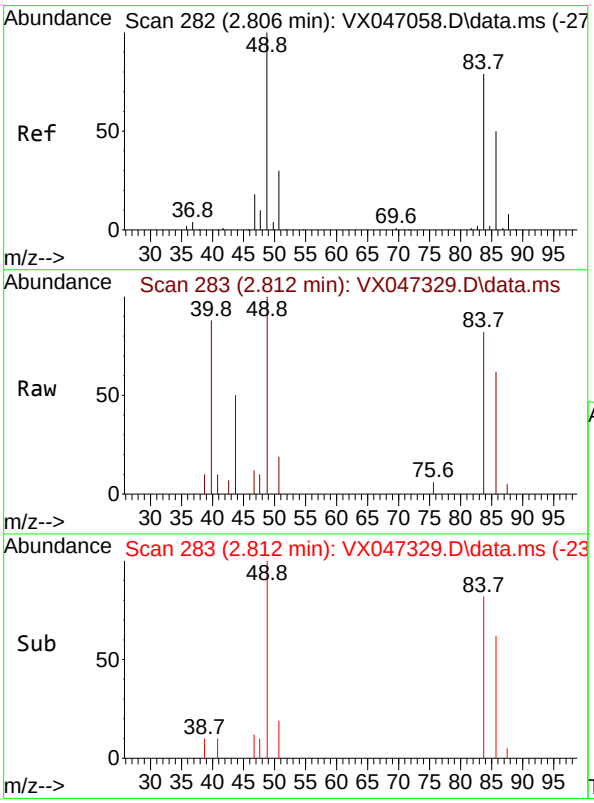
#17
Carbon Disulfide
Concen: 0.446 ug/l
RT: 2.538 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047329.D
Acq: 13 Aug 2025 17:40

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-N

Tgt Ion: 76 Resp: 3372

Ion	Ratio	Lower	Upper
76	100		
78	5.3	7.0	10.4#

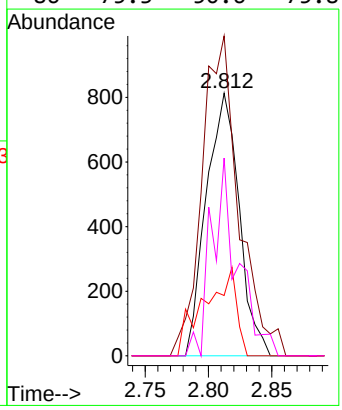


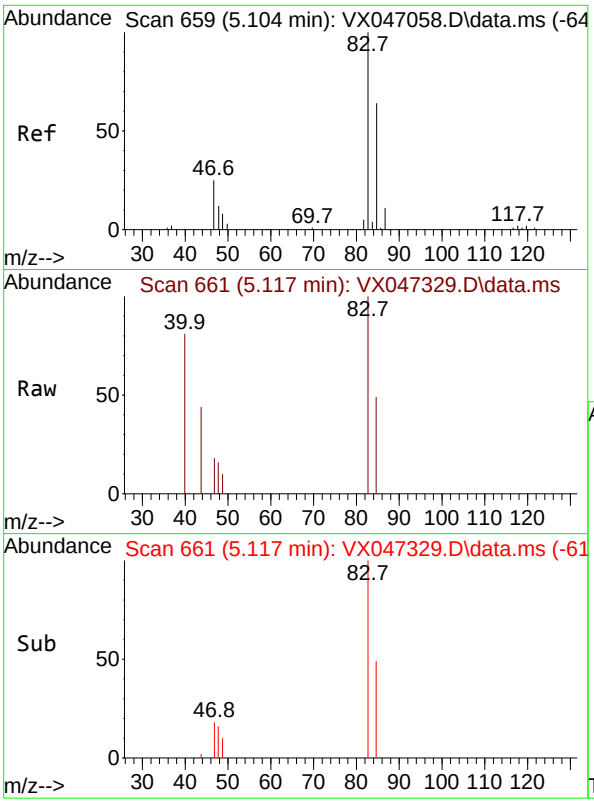


#20
Methylene Chloride
Concen: 0.514 ug/l
RT: 2.812 min Scan# 283
Delta R.T. 0.006 min
Lab File: VX047329.D
Acq: 13 Aug 2025 17:40

Tgt Ion: 84 Resp: 1468

Ion	Ratio	Lower	Upper
84	100		
49	114.9	101.6	152.4
51	23.0	30.3	45.5#
86	75.3	50.6	75.8



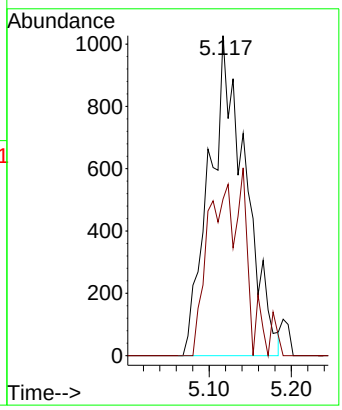


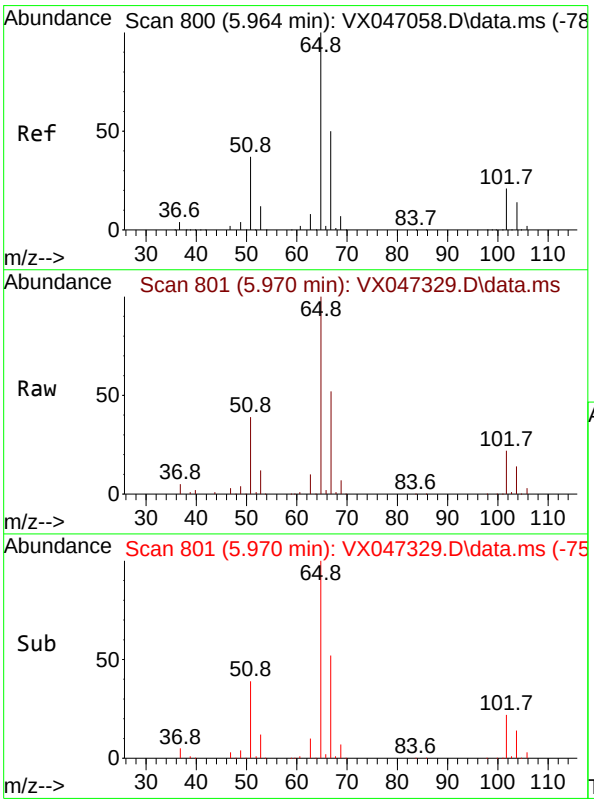
#30
Chloroform
Concen: 0.608 ug/l
RT: 5.117 min Scan# 6
Delta R.T. 0.012 min
Lab File: VX047329.D
Acq: 13 Aug 2025 17:40

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-N

Tgt Ion: 83 Resp: 3126

Ion	Ratio	Lower	Upper
83	100		
85	48.9	50.9	76.3#

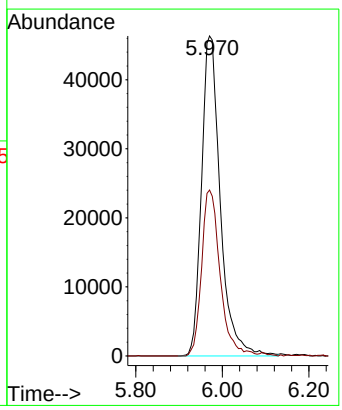


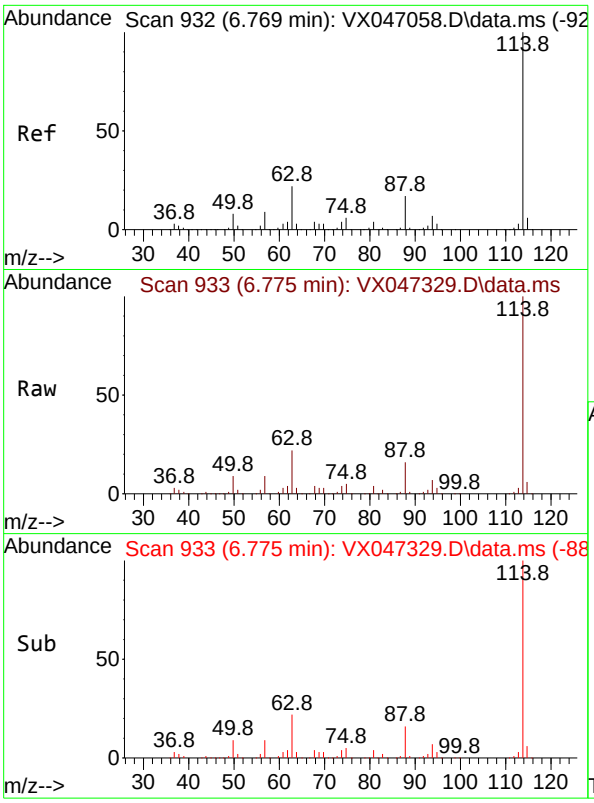


#33
1,2-Dichloroethane-d4
Concen: 53.789 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.006 min
Lab File: VX047329.D
Acq: 13 Aug 2025 17:40

Tgt Ion: 65 Resp: 139384

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	104.8



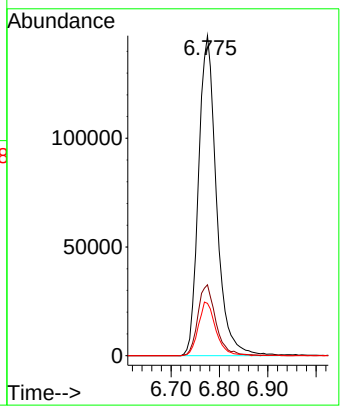


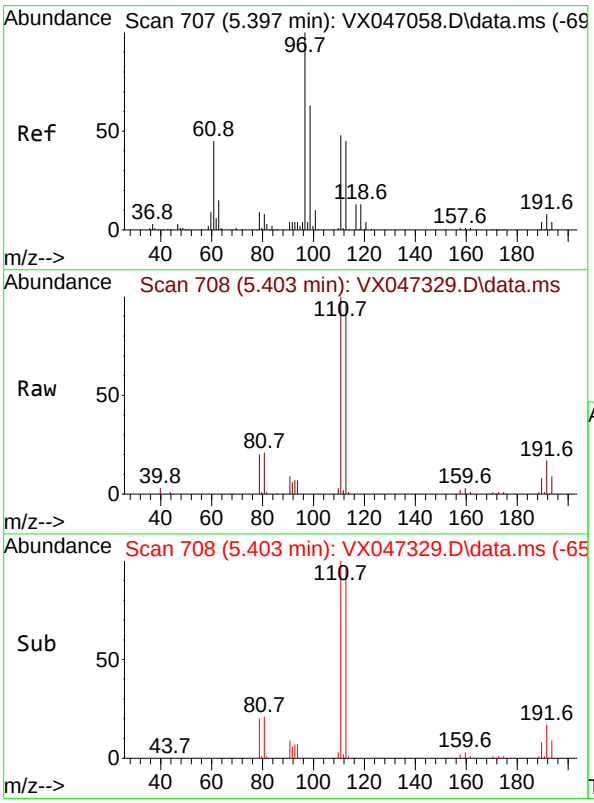
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.775 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047329.D
Acq: 13 Aug 2025 17:40

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-N

Tgt Ion:114 Resp: 379571

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	43.2
88	16.3	0.0	33.8

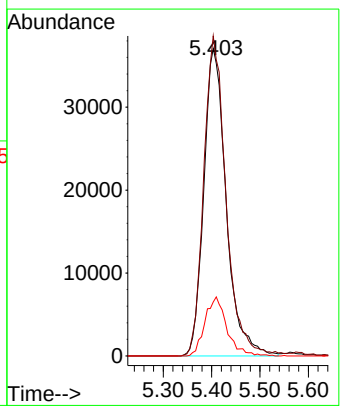


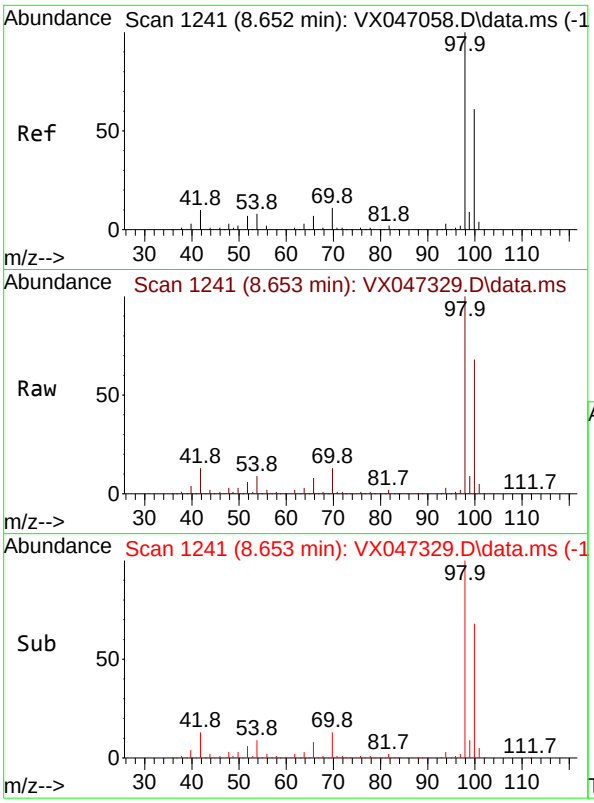


#35
Dibromofluoromethane
Concen: 51.040 ug/l
RT: 5.403 min Scan# 708
Delta R.T. 0.006 min
Lab File: VX047329.D
Acq: 13 Aug 2025 17:40

Tgt Ion:113 Resp: 119617

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.6	124.0
192	18.8	14.9	22.3



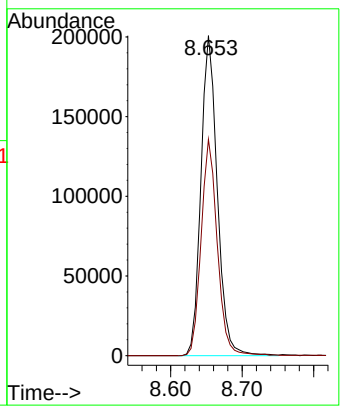


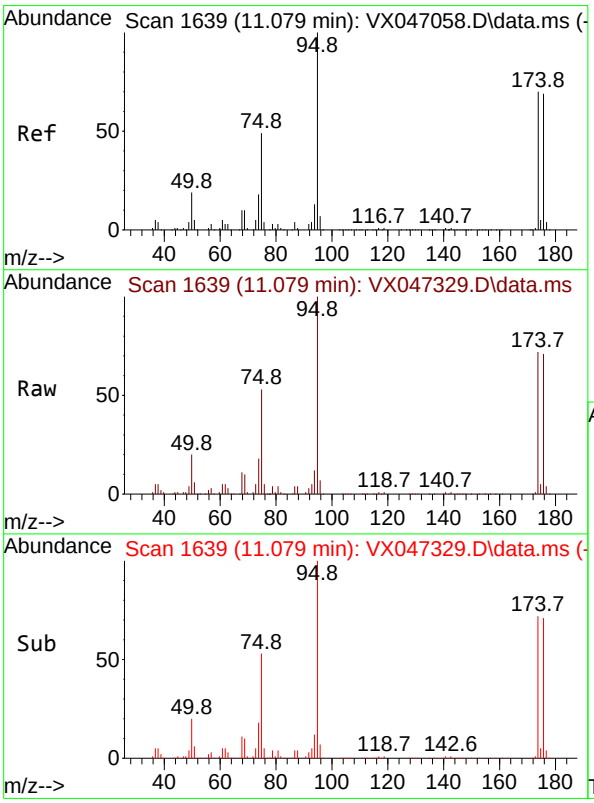
#50
Toluene-d8
Concen: 42.140 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047329.D
Acq: 13 Aug 2025 17:40

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-N

Tgt Ion: 98 Resp: 319829

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.3	79.9

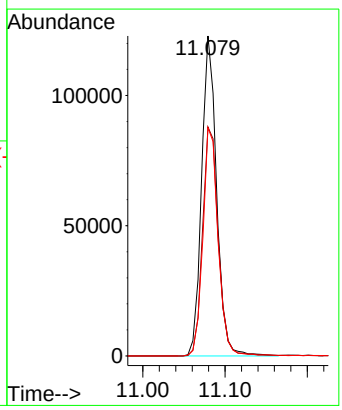


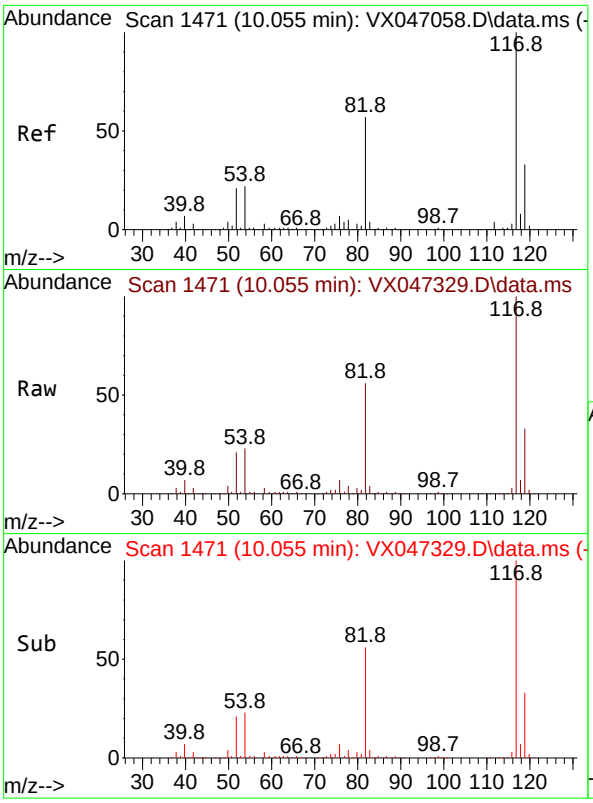


#62
4-Bromofluorobenzene
Concen: 47.613 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047329.D
Acq: 13 Aug 2025 17:40

Tgt Ion: 95 Resp: 155728

Ion	Ratio	Lower	Upper
95	100		
174	75.0	0.0	144.6
176	72.5	0.0	139.6



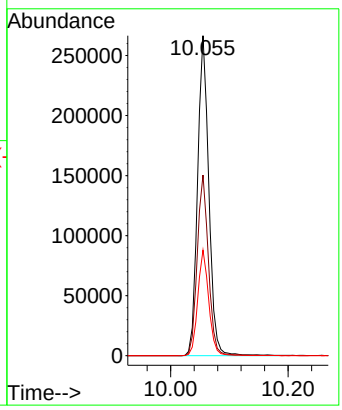


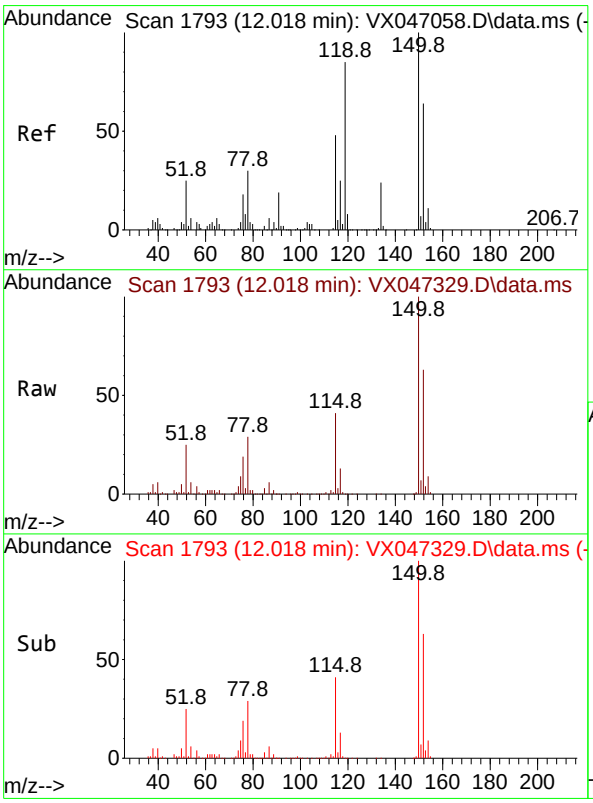
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047329.D
Acq: 13 Aug 2025 17:40

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-N

Tgt Ion:117 Resp: 354515

Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.4	68.2
119	33.0	26.1	39.1

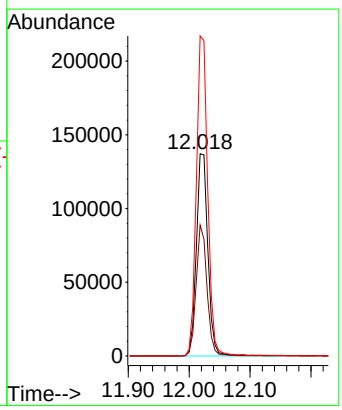




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047329.D
Acq: 13 Aug 2025 17:40

Tgt Ion:152 Resp: 179591

Ion	Ratio	Lower	Upper
152	100		
115	61.2	45.6	136.7
150	155.7	0.0	354.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047329.D
Acq On : 13 Aug 2025 17:40
Operator : JC/MD
Sample : Q2815-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-N

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\82X072125W.M
Title : SW846 8260

Signal : TIC: VX047329.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.270	25	30	36	rBV	39017	91483	8.22%	1.459%
2	2.398	210	215	222	rBV2	5283	11605	1.04%	0.185%
3	5.403	697	708	724	rBV3	122785	392688	35.30%	6.263%
4	5.568	726	735	763	rVB	205529	646144	58.08%	10.306%
5	5.970	791	801	819	rBV	129914	379752	34.14%	6.057%
6	6.775	923	933	954	rBV	348229	906805	81.51%	14.463%
7	8.653	1233	1241	1257	rBV	543540	869057	78.12%	13.861%
8	10.055	1465	1471	1488	rBV	826636	1106846	99.49%	17.654%
9	11.079	1634	1639	1653	rBV	587678	752879	67.68%	12.008%
10	12.018	1788	1793	1806	rBV	878510	1112489	100.00%	17.744%

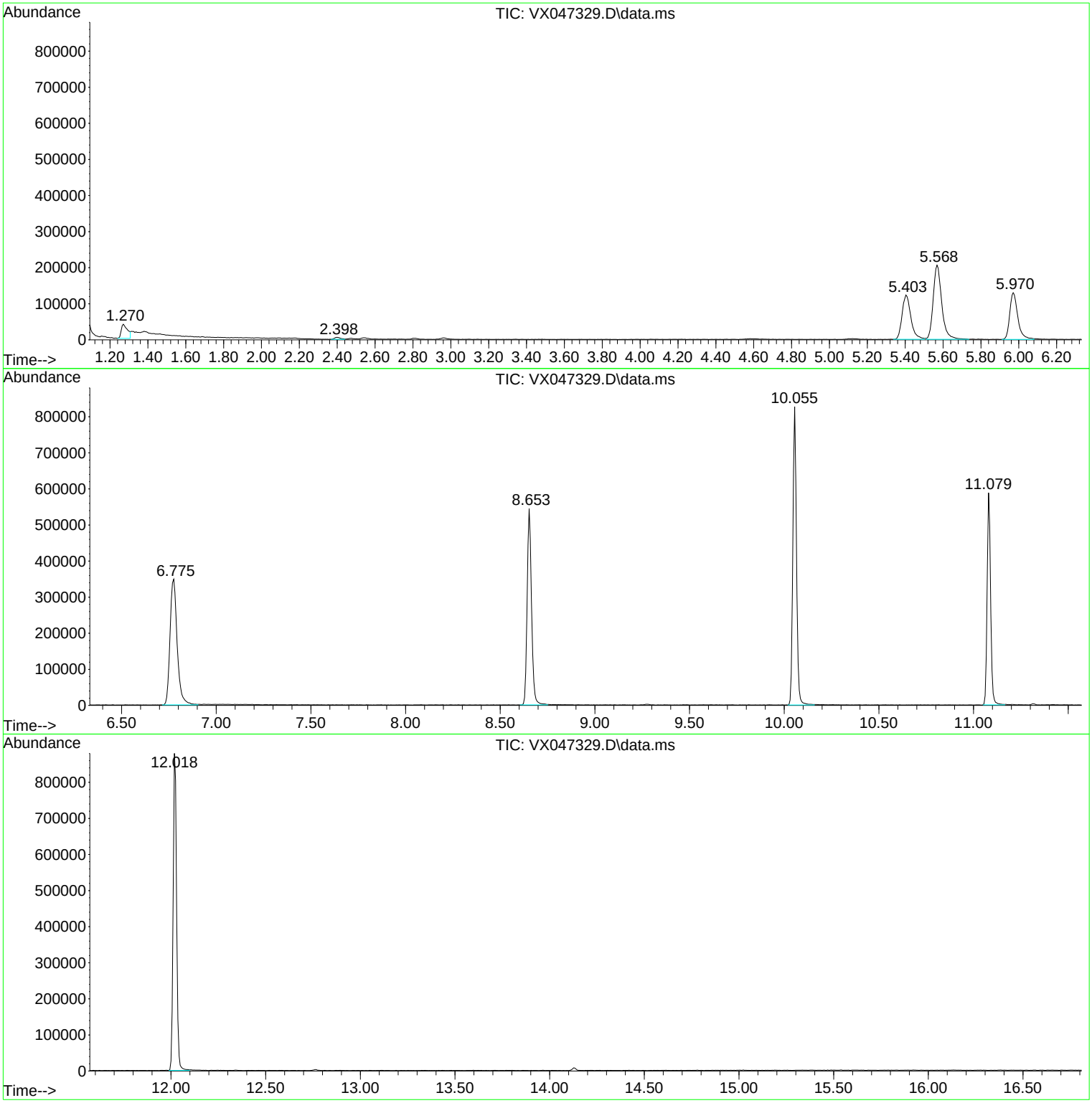
Sum of corrected areas: 6269748

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047329.D
Acq On : 13 Aug 2025 17:40
Operator : JC/MD
Sample : Q2815-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047329.D
Acq On : 13 Aug 2025 17:40
Operator : JC/MD
Sample : Q2815-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260

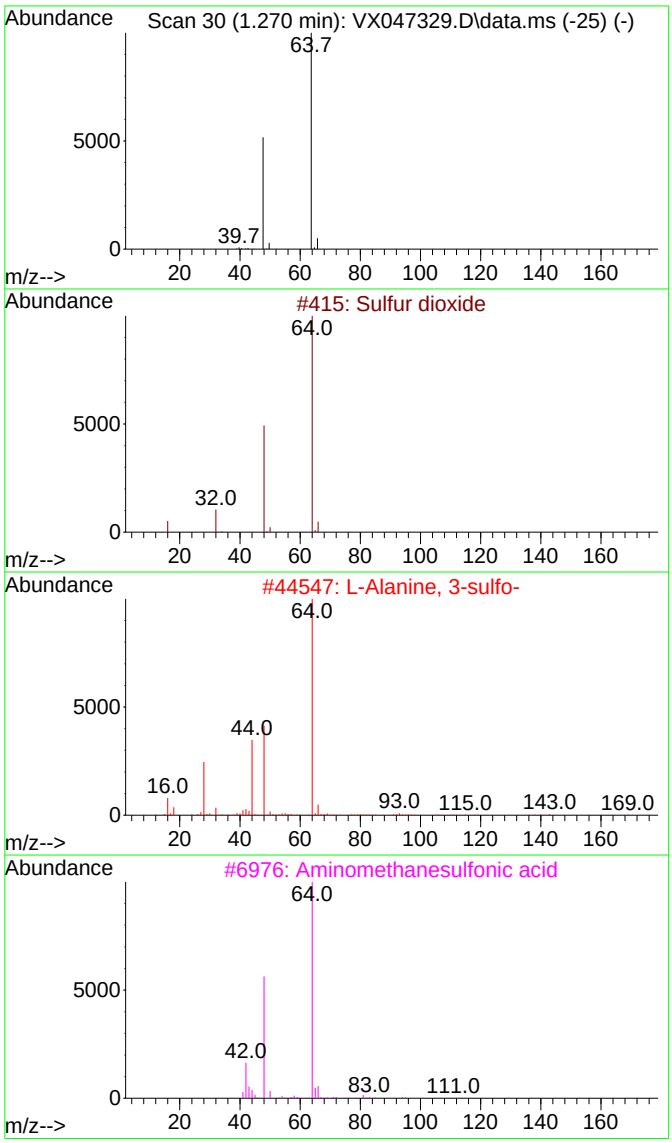
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

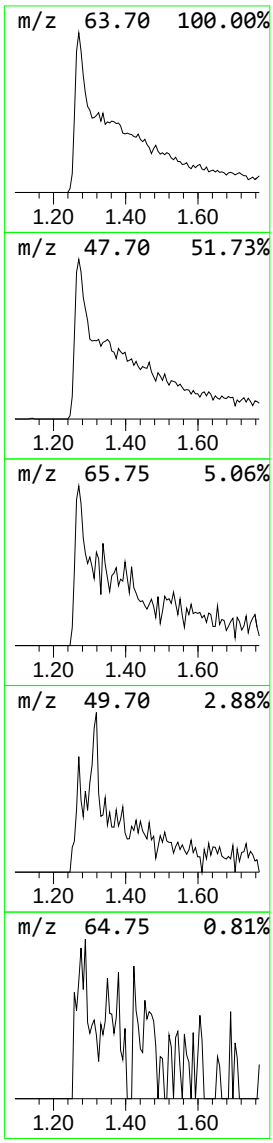
****

Peak Number 1 Sulfur dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.270	7.08 ug/l	91483	Pentafluorobenzene	5.568

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	74
2	L-Alanine, 3-sulfo-	169	C3H7NO5S	000498-40-8	9
3	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	9
4	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	4
5	Ethyl Chloride	64	C2H5Cl	000075-00-3	3





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047329.D
Acq On : 13 Aug 2025 17:40
Operator : JC/MD
Sample : Q2815-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.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
Sulfur dioxide	1.270	7.1	ug/l	91483	1	5.568	646144	50.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-NRE	SDG No.:	Q2815
Lab Sample ID:	Q2815-06RE	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
VX047382.D	1	08/18/25 15:14	VX081825

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	7.20		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:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-NRE	SDG No.:	Q2815
Lab Sample ID:	Q2815-06RE	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
VX047382.D	1	08/18/25 15:14	VX081825

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	54.6		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	58.3	*	85 - 114		117%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	232000	5.562				
540-36-3	1,4-Difluorobenzene	447000	6.769				
3114-55-4	Chlorobenzene-d5	456000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	237000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-10P-NRE	SDG No.:	Q2815
Lab Sample ID:	Q2815-06RE	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
VX047382.D	1	08/18/25 15:14	VX081825

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\VX081825\
Data File : VX047382.D
Acq On : 18 Aug 2025 15:14
Operator : JC/MD
Sample : Q2815-06RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-NRE

Quant Time: Aug 19 01:43:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

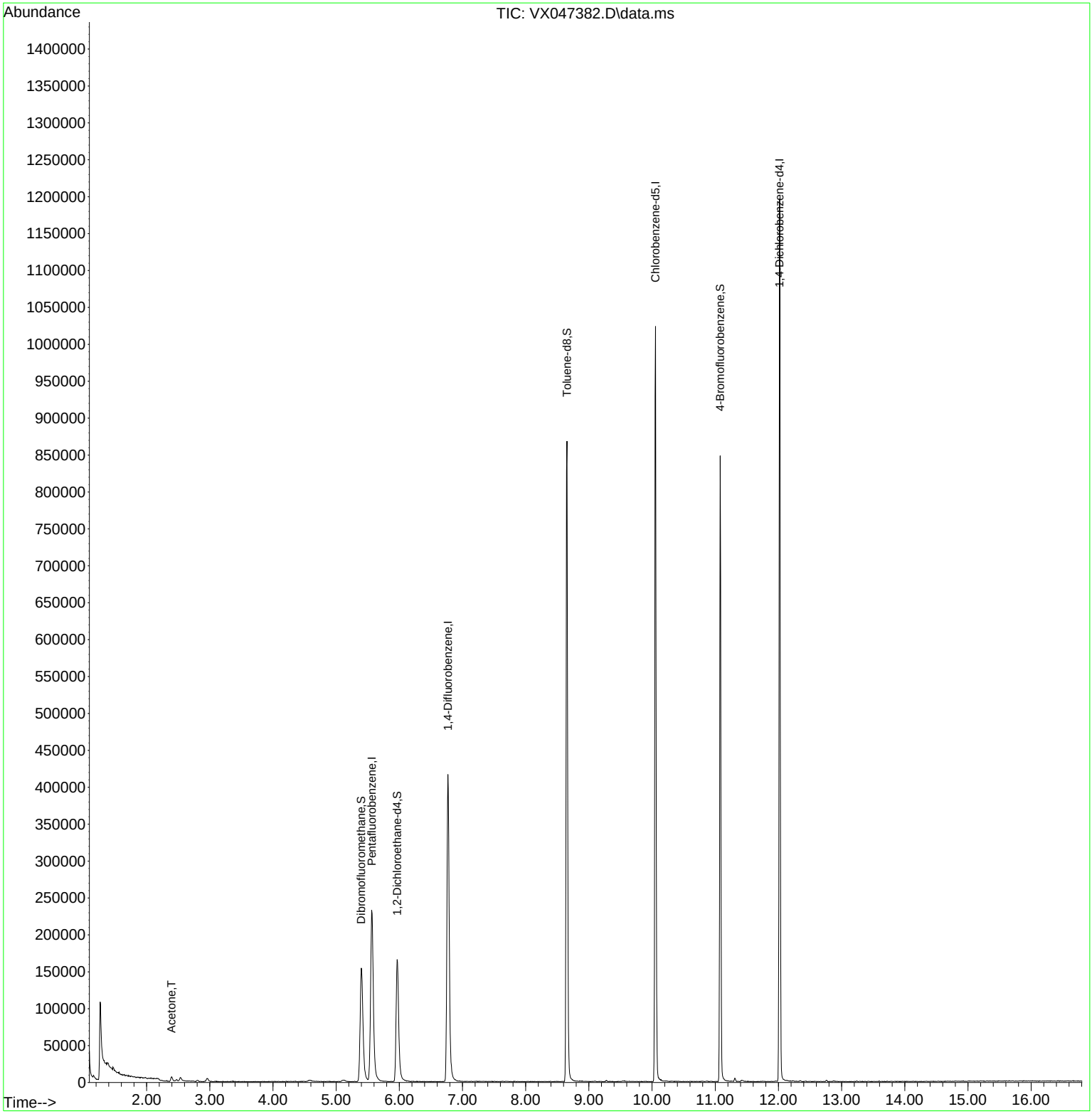
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	232145	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	447155	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	455584	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	236692	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	177252	54.557	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.120%			
35) Dibromofluoromethane	5.397	113	146545	50.497	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.000%			
50) Toluene-d8	8.653	98	523865	50.504	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.000%			
62) 4-Bromofluorobenzene	11.079	95	223111	58.288	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 116.580%			
Target Compounds						Qvalue
16) Acetone	2.392	43	8786	7.194	ug/l	98

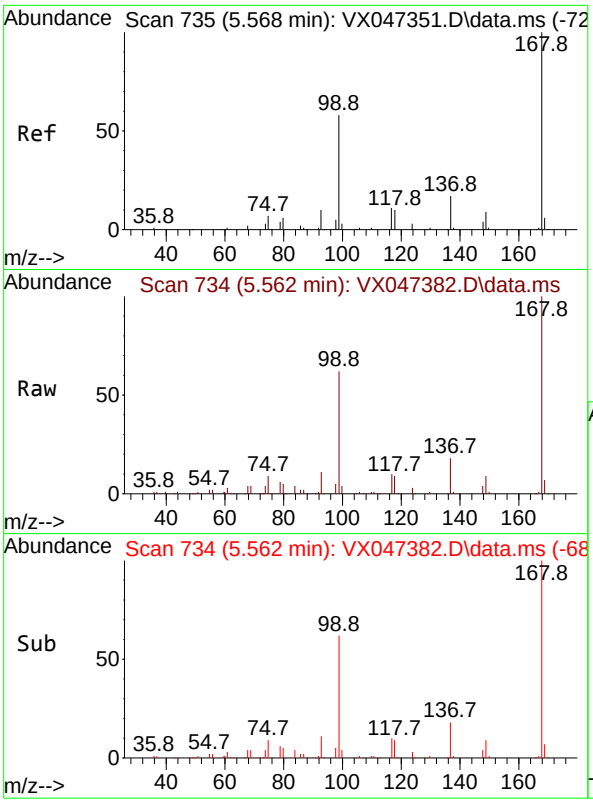
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047382.D
Acq On : 18 Aug 2025 15:14
Operator : JC/MD
Sample : Q2815-06RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-NRE

Quant Time: Aug 19 01:43:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



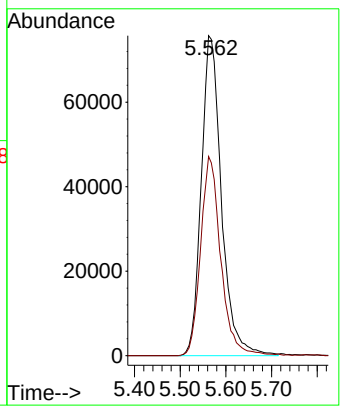


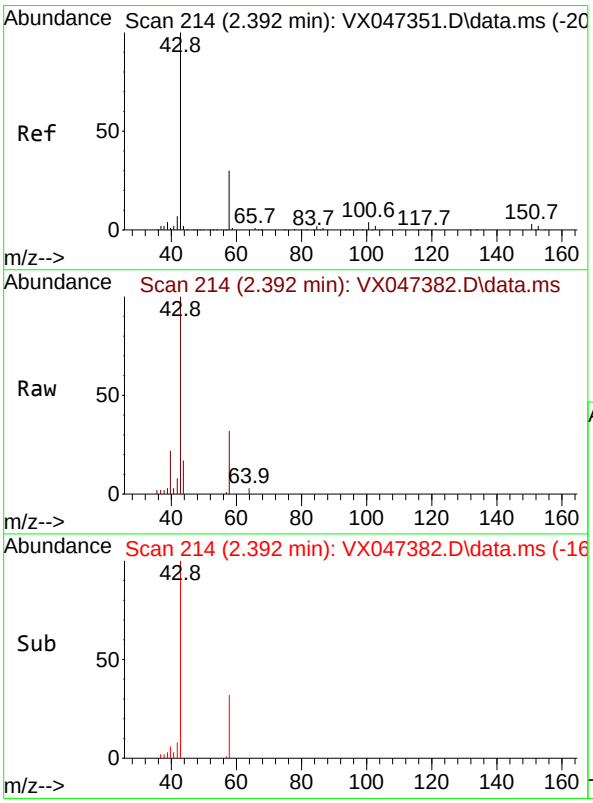
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047382.D
Acq: 18 Aug 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-NRE

Tgt Ion:168 Resp: 232145

Ion	Ratio	Lower	Upper
168	100		
99	62.2	47.9	71.9

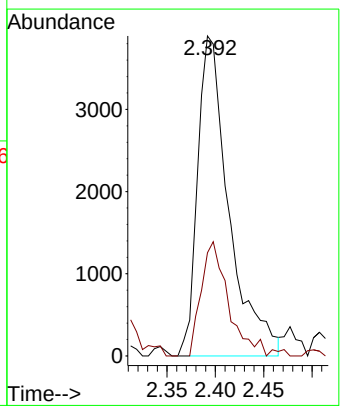


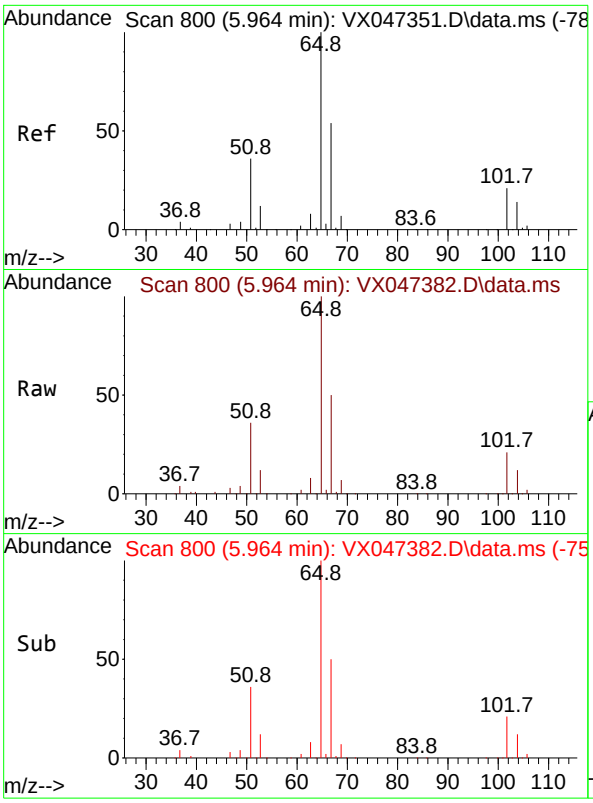


#16
Acetone
Concen: 7.194 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047382.D
Acq: 18 Aug 2025 15:14

Tgt Ion: 43 Resp: 8786

Ion	Ratio	Lower	Upper
43	100		
58	32.3	24.8	37.2



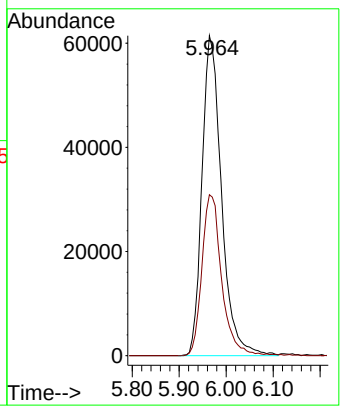


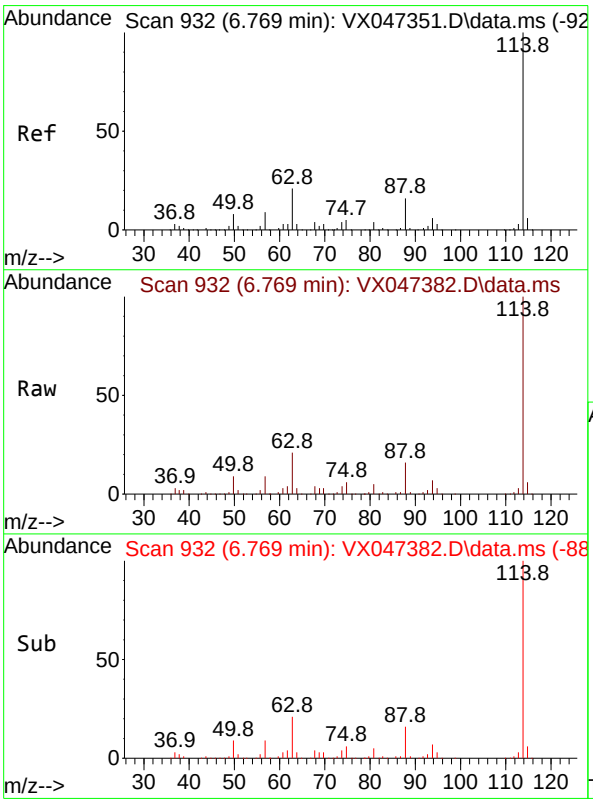
#33
1,2-Dichloroethane-d4
Concen: 54.557 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047382.D
Acq: 18 Aug 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-NRE

Tgt Ion: 65 Resp: 177252

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	106.0

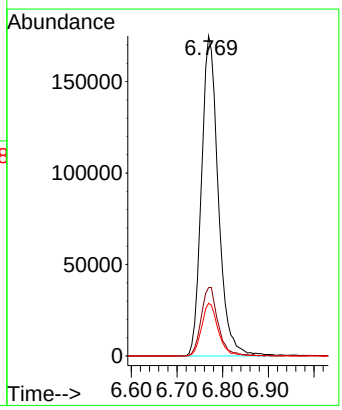


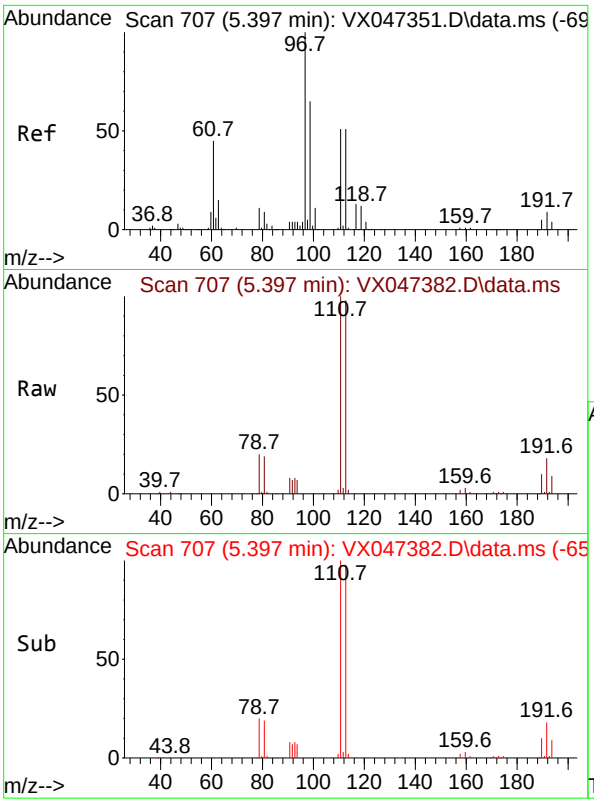


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047382.D
Acq: 18 Aug 2025 15:14

Tgt Ion:114 Resp: 447155

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	42.4
88	16.5	0.0	33.0



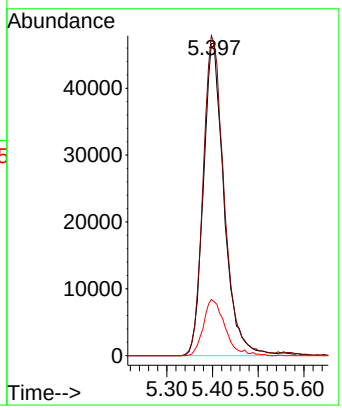


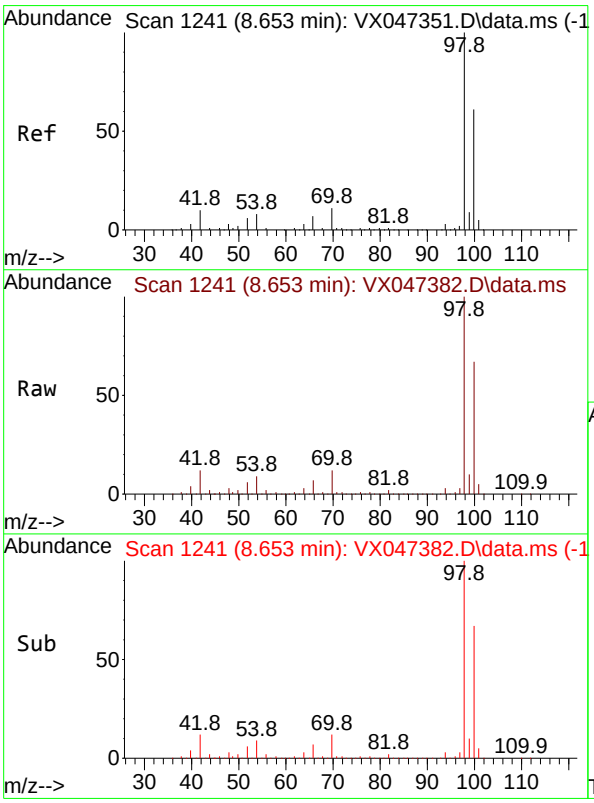
#35
Dibromofluoromethane
Concen: 50.497 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047382.D
Acq: 18 Aug 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-NRE

Tgt Ion:113 Resp: 146545

Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.4	122.2
192	18.9	14.1	21.1

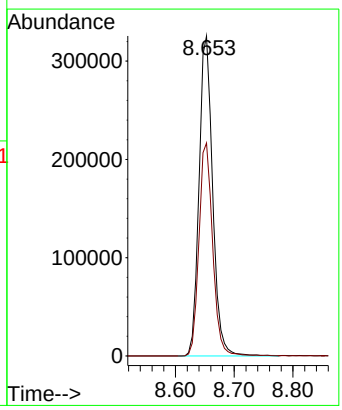


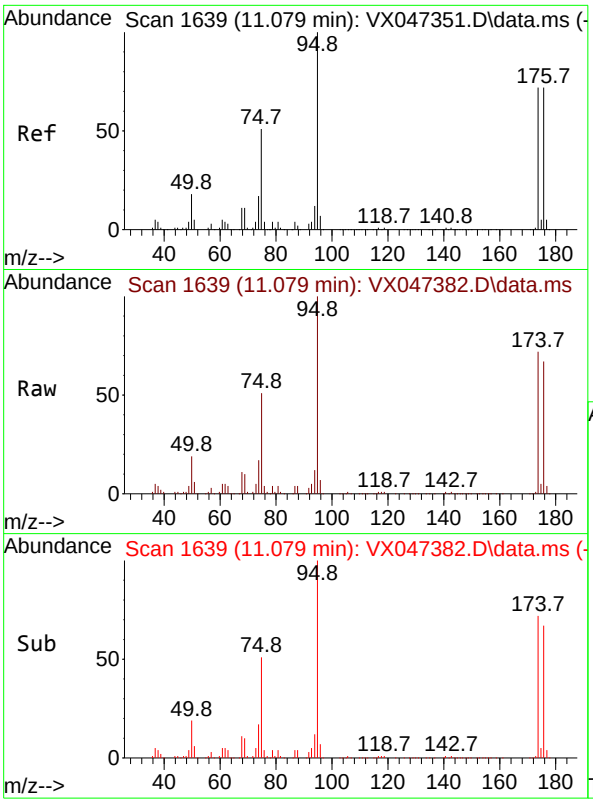


#50
Toluene-d8
Concen: 50.504 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047382.D
Acq: 18 Aug 2025 15:14

Tgt Ion: 98 Resp: 523865

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.9	80.9



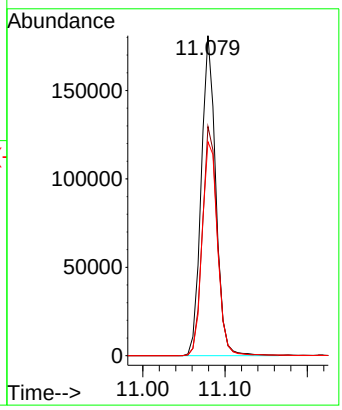


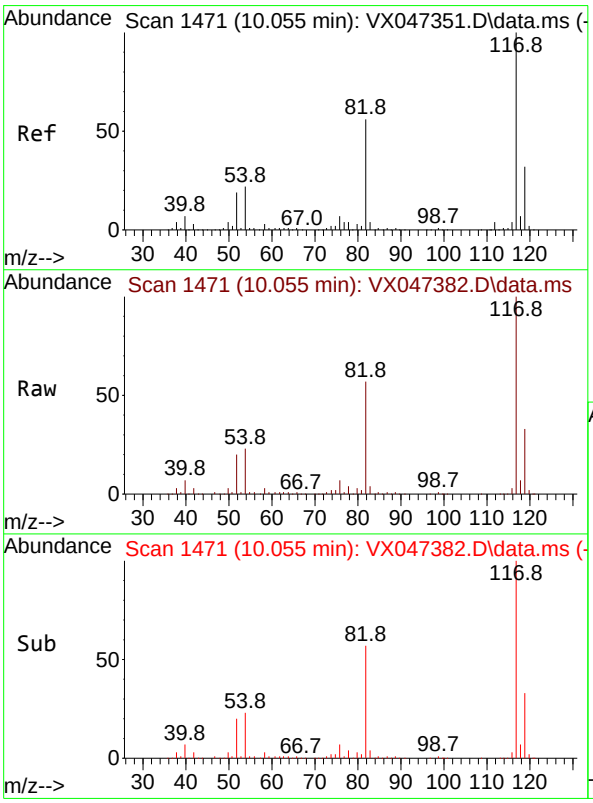
#62
4-Bromofluorobenzene
Concen: 58.288 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047382.D
Acq: 18 Aug 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-NRE

Tgt Ion: 95 Resp: 223111

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	148.0
176	71.1	0.0	145.4

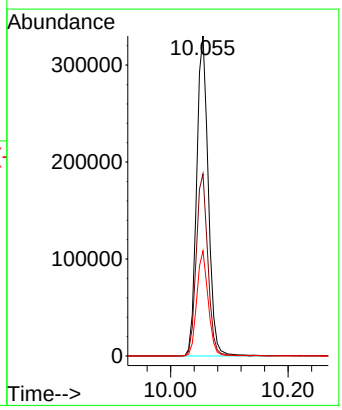


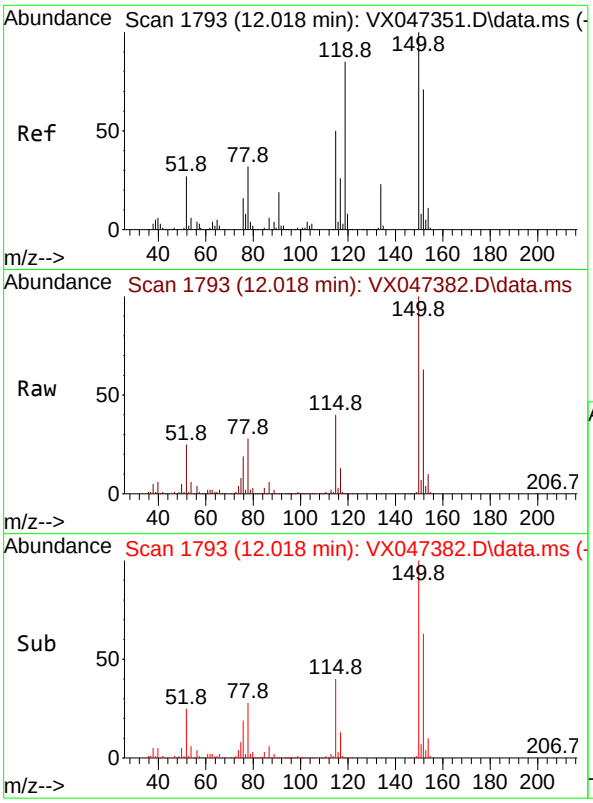


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047382.D
Acq: 18 Aug 2025 15:14

Tgt Ion:117 Resp: 455584

Ion	Ratio	Lower	Upper
117	100		
82	56.9	45.0	67.4
119	32.8	25.8	38.8



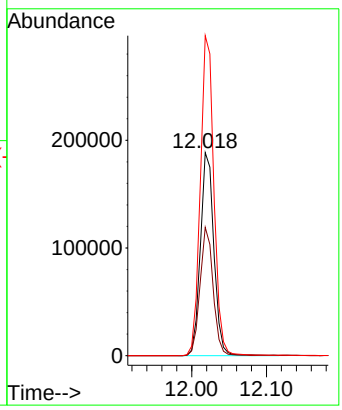


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047382.D
Acq: 18 Aug 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
TW-10P-NRE

Tgt Ion:152 Resp: 236692

Ion	Ratio	Lower	Upper
152	100		
115	61.5	44.6	133.8
150	158.1	0.0	349.8



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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-88H-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-07	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
VX047330.D	1	08/13/25 18:02	VX081325

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	5.60		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.29	J	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.46	J	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:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-88H-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-07	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
VX047330.D	1	08/13/25 18:02	VX081325

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	57.8		81 - 118		116%	SPK: 50
1868-53-7	Dibromofluoromethane	55.4		80 - 119		111%	SPK: 50
2037-26-5	Toluene-d8	44.7		89 - 112		89%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	227000	5.568				
540-36-3	1,4-Difluorobenzene	420000	6.775				
3114-55-4	Chlorobenzene-d5	390000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	198000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-88H-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-07	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
VX047330.D	1	08/13/25 18:02	VX081325

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\VX081325\
Data File : VX047330.D
Acq On : 13 Aug 2025 18:02
Operator : JC/MD
Sample : Q2815-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-E

Quant Time: Aug 14 03:32:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

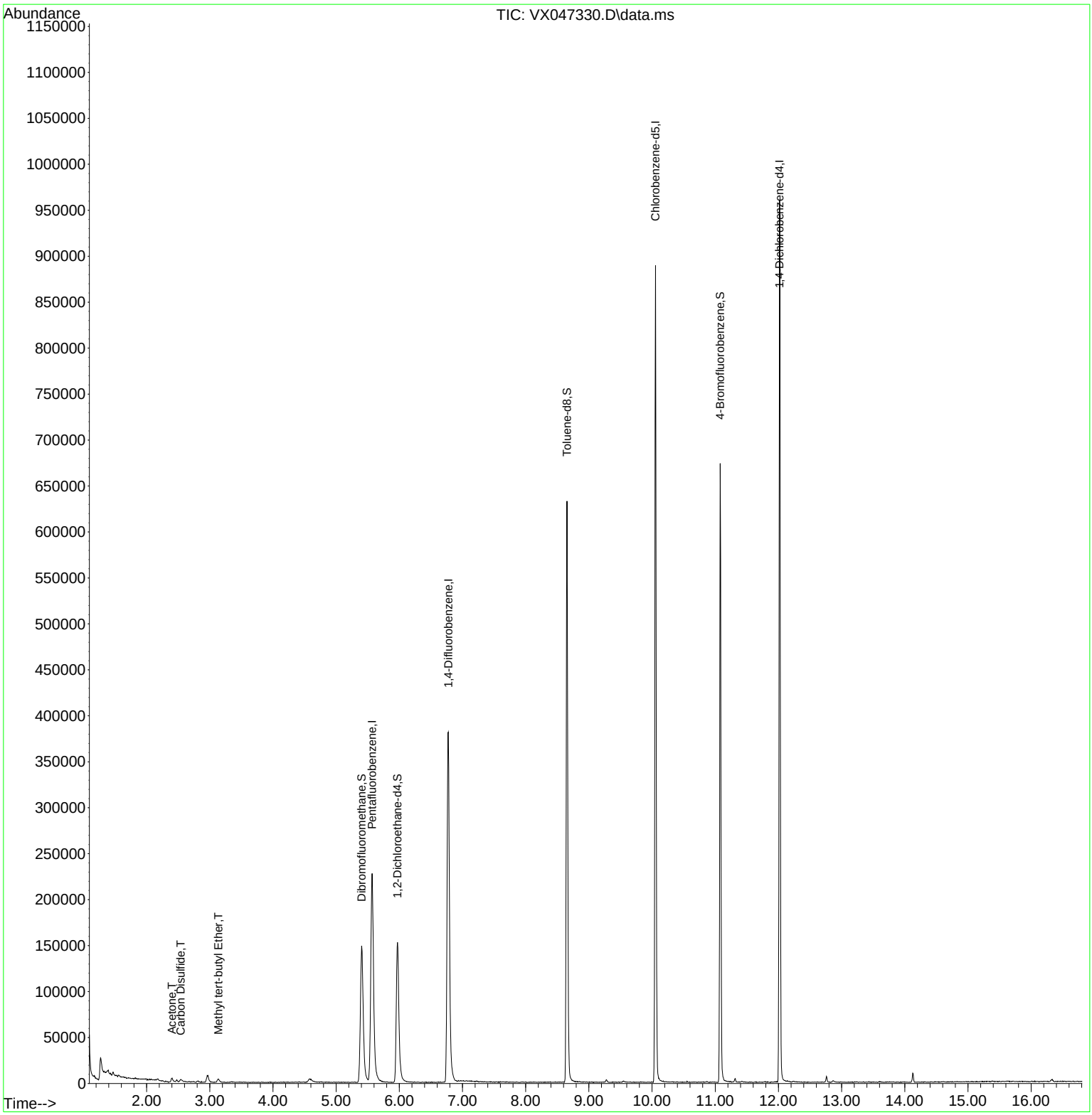
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	226623	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	419826	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	390050	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	198183	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	163301	57.847	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 115.700%			
35) Dibromofluoromethane	5.403	113	143599	55.398	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.800%			
50) Toluene-d8	8.653	98	374974	44.668	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 89.340%#			
62) 4-Bromofluorobenzene	11.079	95	183003	50.587	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.180%			
Target Compounds						Qvalue
16) Acetone	2.398	43	6333	5.600	ug/l	99
17) Carbon Disulfide	2.538	76	2398	0.291	ug/l #	88
19) Methyl tert-butyl Ether	3.136	73	4013	0.463	ug/l #	89

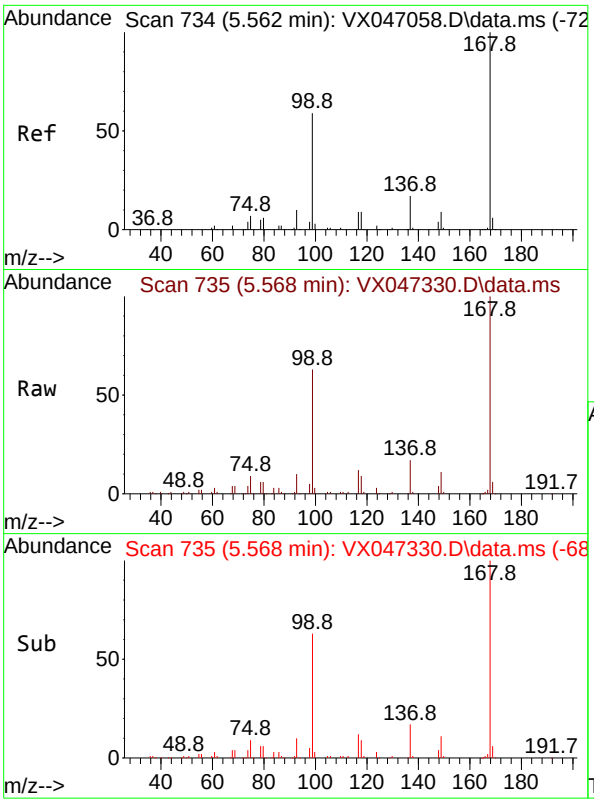
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047330.D
Acq On : 13 Aug 2025 18:02
Operator : JC/MD
Sample : Q2815-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-E

Quant Time: Aug 14 03:32:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration



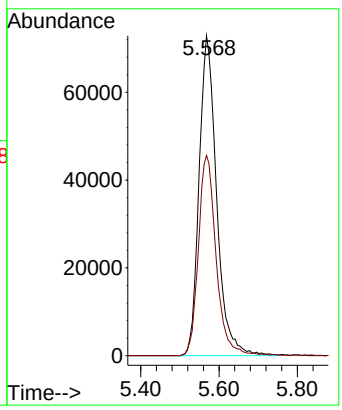


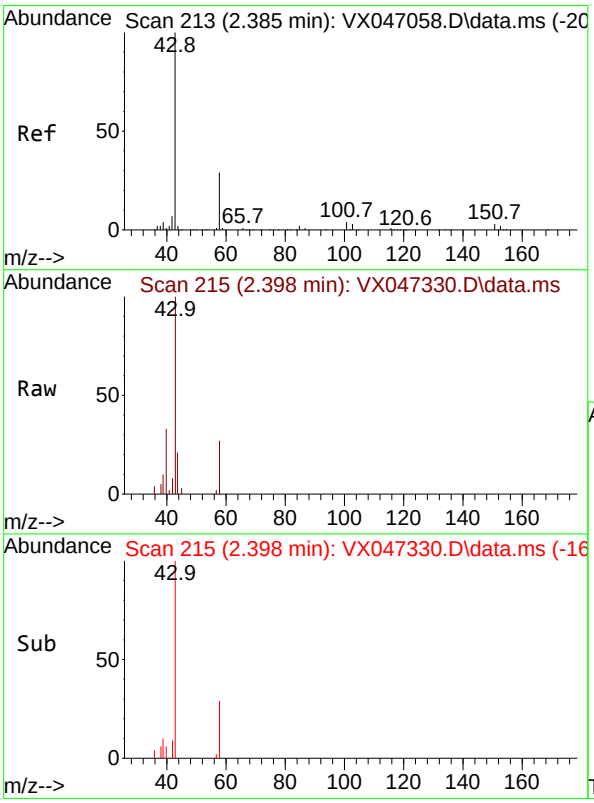
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047330.D
Acq: 13 Aug 2025 18:02

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-E

Tgt Ion:168 Resp: 226623

Ion	Ratio	Lower	Upper
168	100		
99	62.6	48.0	72.0

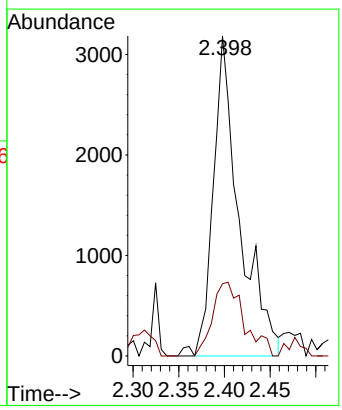


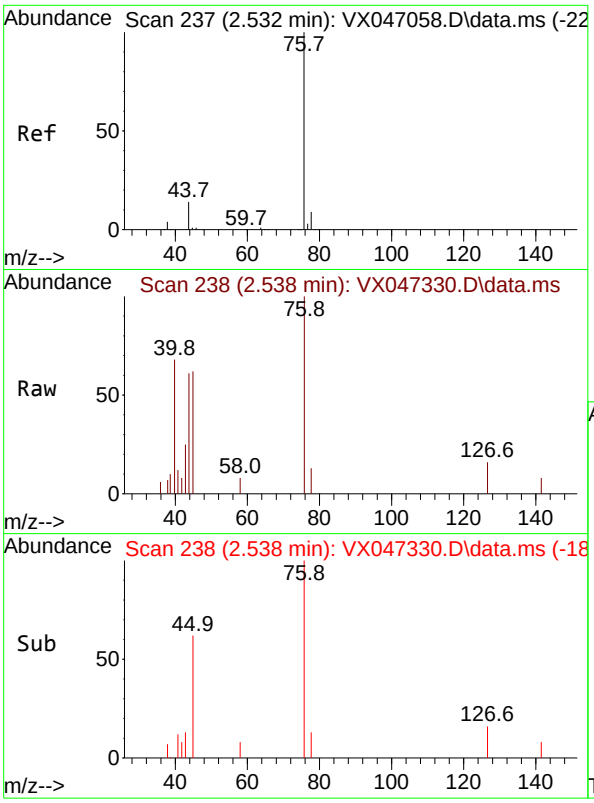


#16
Acetone
Concen: 5.600 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.012 min
Lab File: VX047330.D
Acq: 13 Aug 2025 18:02

Tgt Ion: 43 Resp: 6333

Ion	Ratio	Lower	Upper
43	100		
58	29.3	24.0	36.0



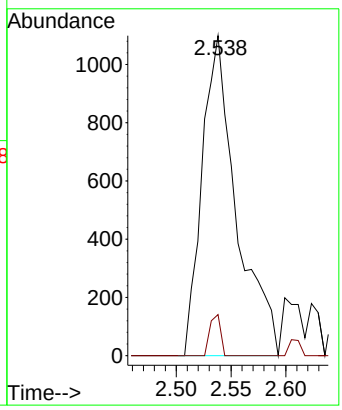


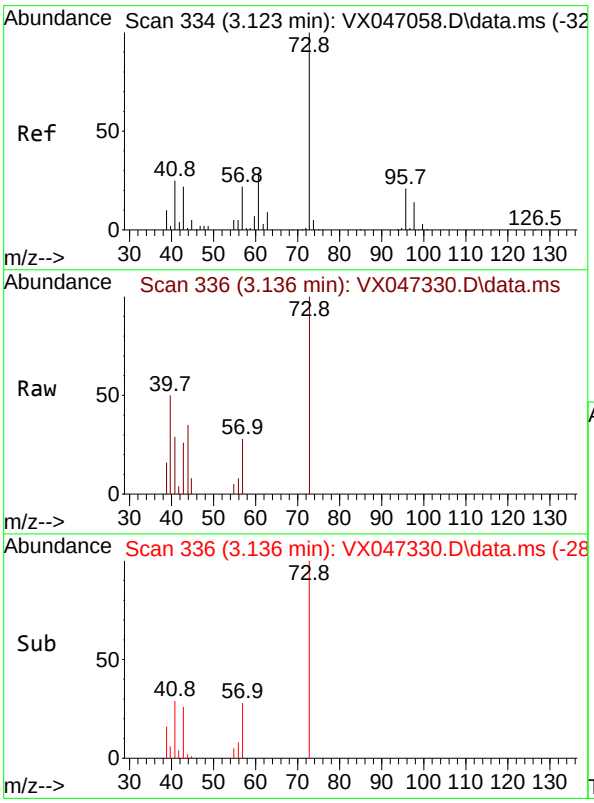
#17
Carbon Disulfide
Concen: 0.291 ug/l
RT: 2.538 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047330.D
Acq: 13 Aug 2025 18:02

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-E

Tgt Ion: 76 Resp: 2398

Ion	Ratio	Lower	Upper
76	100		
78	12.8	7.0	10.4#

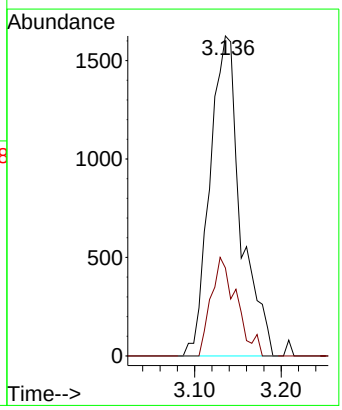


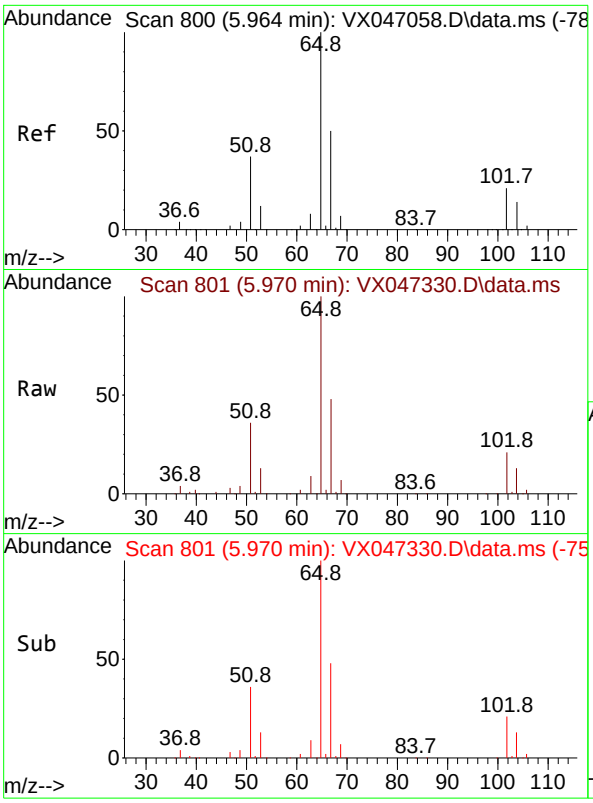


#19
Methyl tert-butyl Ether
Concen: 0.463 ug/l
RT: 3.136 min Scan# 336
Delta R.T. 0.013 min
Lab File: VX047330.D
Acq: 13 Aug 2025 18:02

Tgt Ion: 73 Resp: 4013

Ion	Ratio	Lower	Upper
73	100		
57	27.5	17.7	26.5#



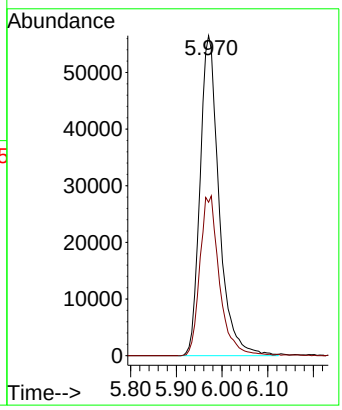


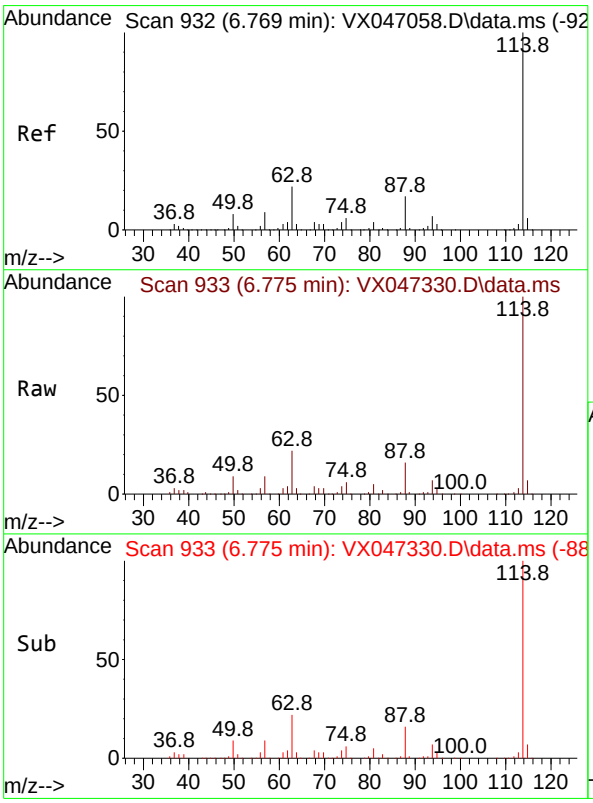
#33
1,2-Dichloroethane-d4
Concen: 57.847 ug/l
RT: 5.970 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047330.D
Acq: 13 Aug 2025 18:02

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-E

Tgt Ion: 65 Resp: 163301

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	104.8

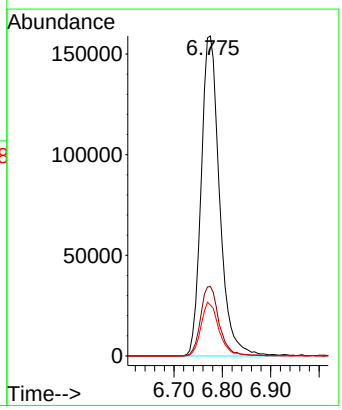


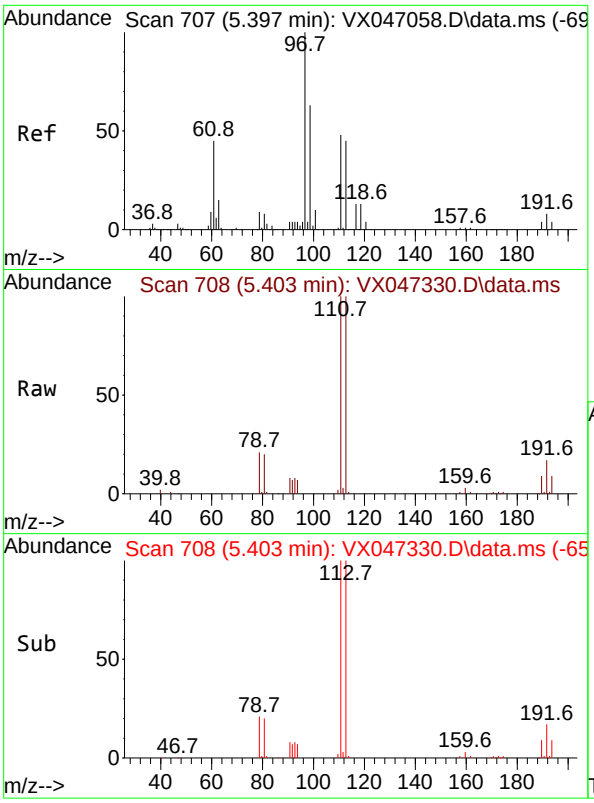


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.775 min Scan# 933
Delta R.T. 0.006 min
Lab File: VX047330.D
Acq: 13 Aug 2025 18:02

Tgt Ion:114 Resp: 419826

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.2
88	15.9	0.0	33.8



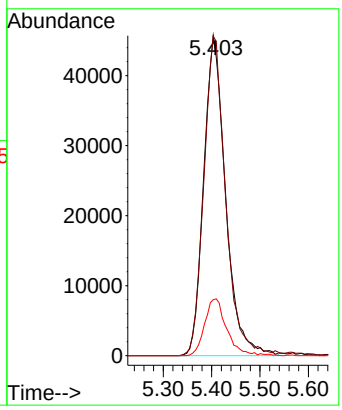


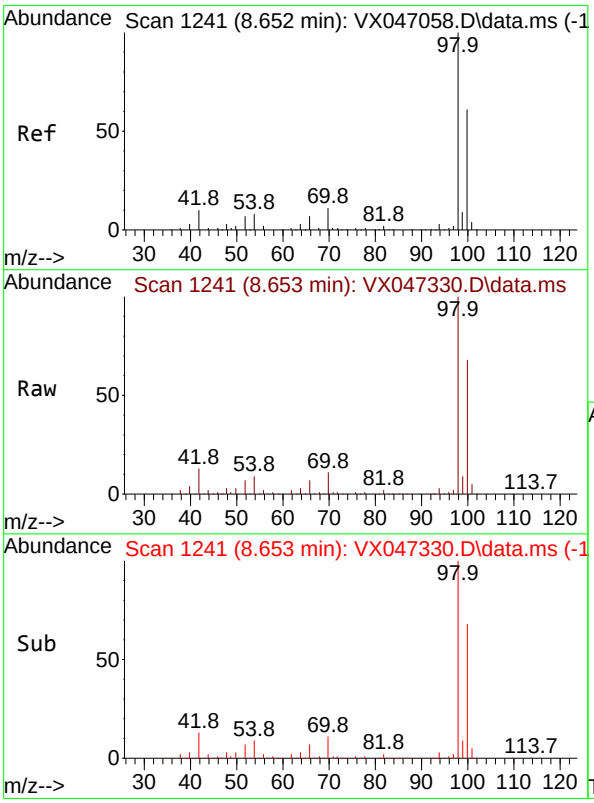
#35
Dibromofluoromethane
Concen: 55.398 ug/l
RT: 5.403 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047330.D
Acq: 13 Aug 2025 18:02

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-E

Tgt Ion:113 Resp: 143599

Ion	Ratio	Lower	Upper
113	100		
111	99.6	82.6	124.0
192	17.9	14.9	22.3

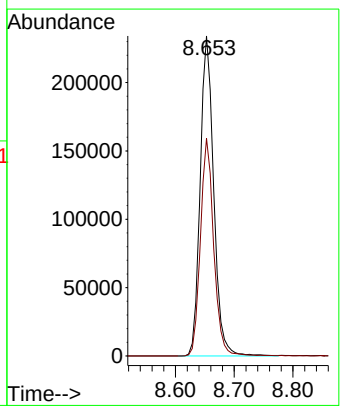


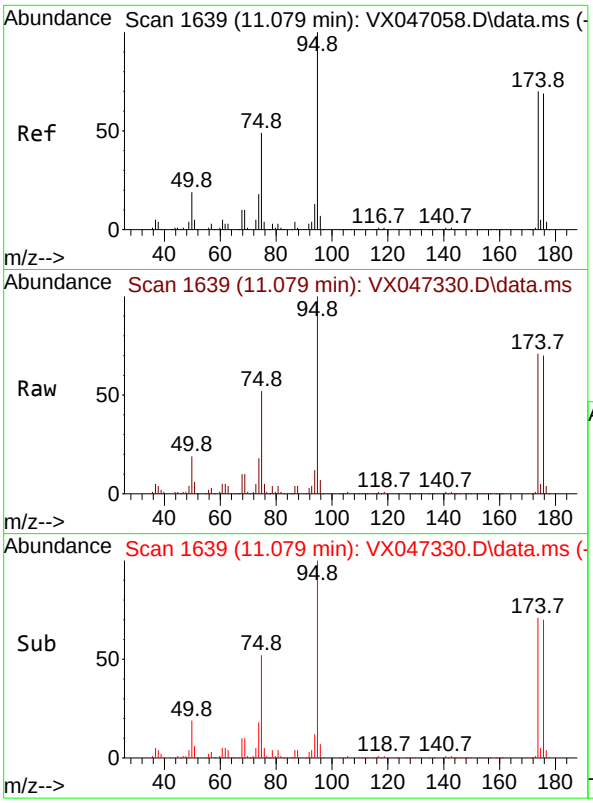


#50
Toluene-d8
Concen: 44.668 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047330.D
Acq: 13 Aug 2025 18:02

Tgt Ion: 98 Resp: 374974

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.3	79.9



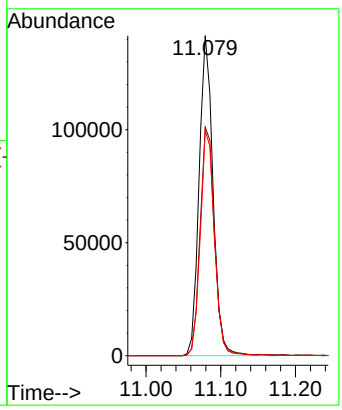


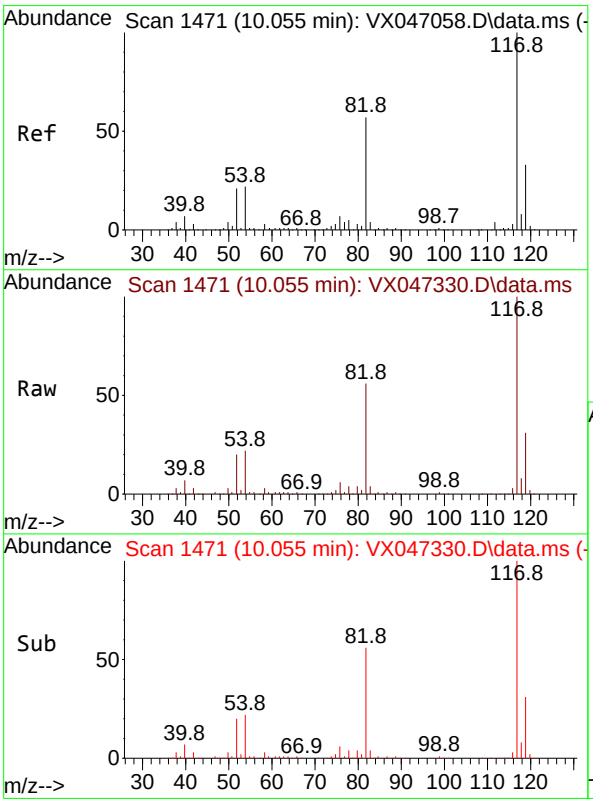
#62
4-Bromofluorobenzene
Concen: 50.587 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047330.D
Acq: 13 Aug 2025 18:02

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-E

Tgt Ion: 95 Resp: 183003

Ion	Ratio	Lower	Upper
95	100		
174	74.2	0.0	144.6
176	71.5	0.0	139.6

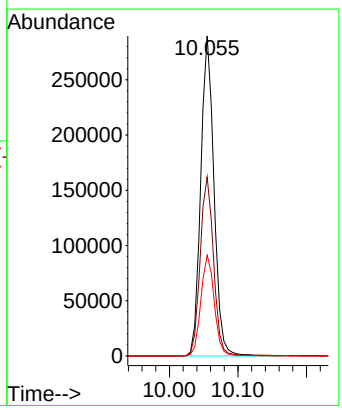


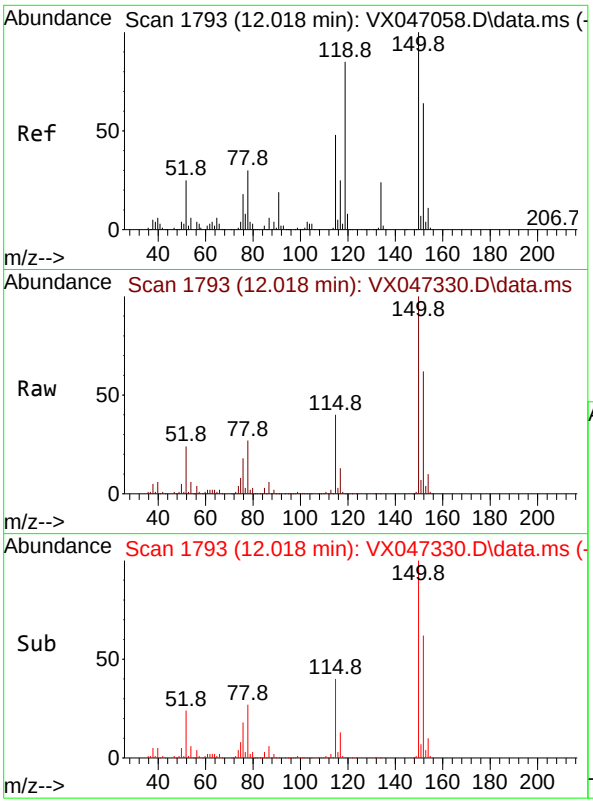


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047330.D
Acq: 13 Aug 2025 18:02

Tgt Ion:117 Resp: 390050

Ion	Ratio	Lower	Upper
117	100		
82	55.9	45.4	68.2
119	31.4	26.1	39.1



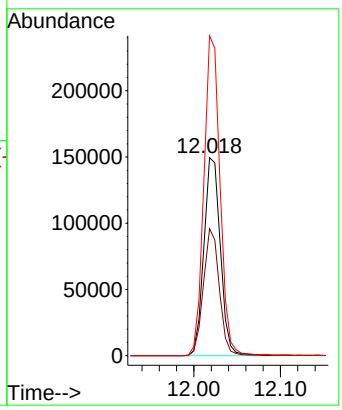


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047330.D
Acq: 13 Aug 2025 18:02

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-E

Tgt Ion:152 Resp: 198183

Ion	Ratio	Lower	Upper
152	100		
115	61.8	45.6	136.7
150	158.2	0.0	354.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047330.D
Acq On : 13 Aug 2025 18:02
Operator : JC/MD
Sample : Q2815-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-E

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\82X072125W.M
Title : SW846 8260

Signal : TIC: VX047330.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.270	25	30	38	rBV	23991	63357	5.11%	0.899%
2	2.971	301	309	317	rBV2	7307	17811	1.44%	0.253%
3	5.403	697	708	725	rBV4	148636	467467	37.72%	6.631%
4	5.568	725	735	755	rVB	225467	691420	55.79%	9.808%
5	5.970	790	801	823	rBV2	152540	450230	36.33%	6.386%
6	6.775	923	933	952	rBV	380730	1001637	80.82%	14.208%
7	8.653	1234	1241	1254	rBV	632369	1014084	81.83%	14.384%
8	10.055	1465	1471	1489	rBV	888611	1215127	98.05%	17.236%
9	11.079	1634	1639	1650	rBV	673058	876067	70.69%	12.427%
10	12.018	1788	1793	1807	rBV	959508	1239297	100.00%	17.579%
11	14.127	2133	2139	2144	rVB	9869	13372	1.08%	0.190%

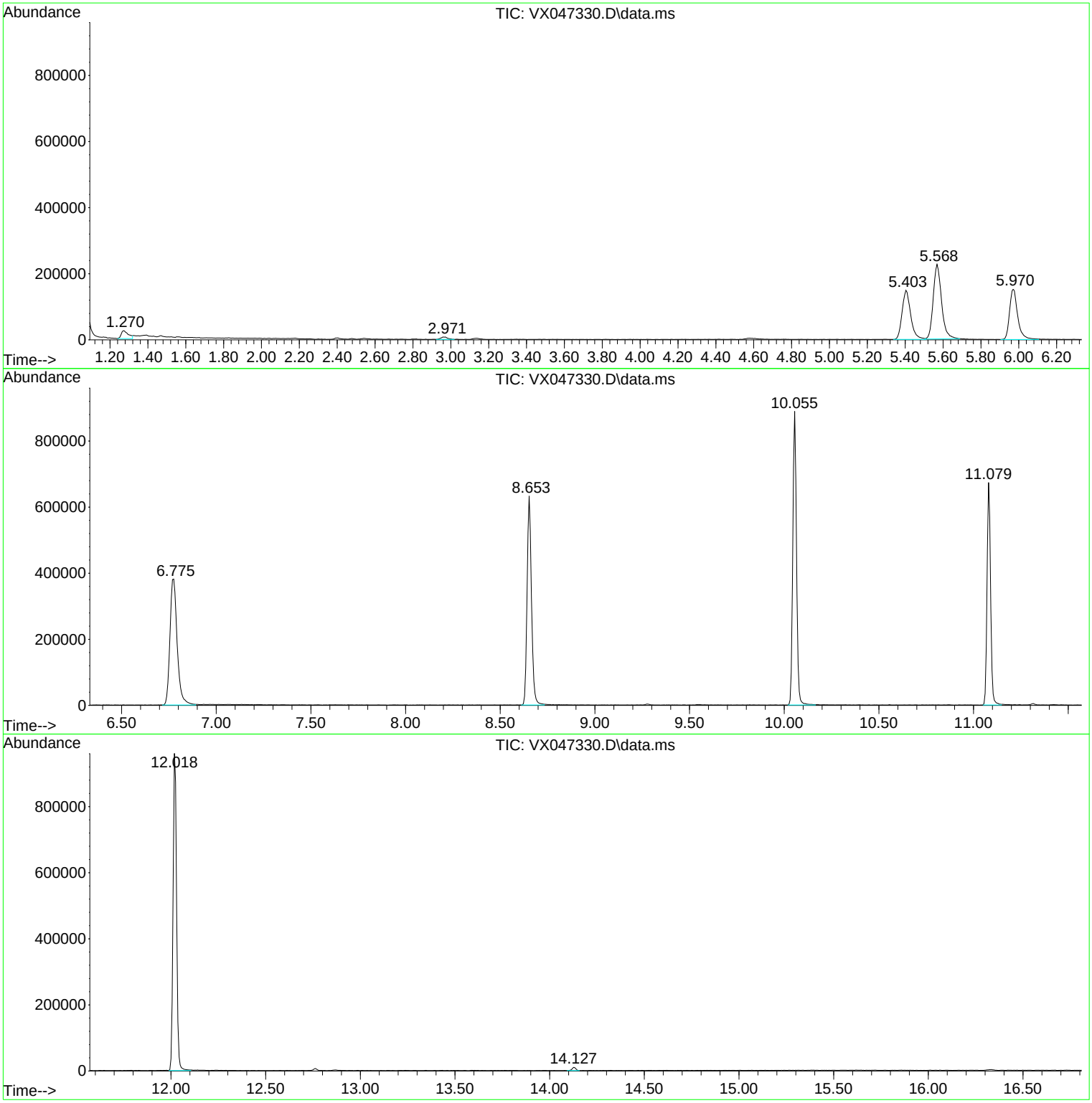
Sum of corrected areas: 7049869

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047330.D
Acq On : 13 Aug 2025 18:02
Operator : JC/MD
Sample : Q2815-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047330.D
Acq On : 13 Aug 2025 18:02
Operator : JC/MD
Sample : Q2815-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.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\VX081325\
Data File : VX047330.D
Acq On : 13 Aug 2025 18:02
Operator : JC/MD
Sample : Q2815-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.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:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-88H-N	SDG No.:	Q2815
Lab Sample ID:	Q2815-08	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
VX047383.D	1	08/18/25 15:35	VX081825

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	5.30		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	13.5		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:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-88H-N	SDG No.:	Q2815
Lab Sample ID:	Q2815-08	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
VX047383.D	1	08/18/25 15:35	VX081825

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	54.3		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.7		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.0		85 - 114		114%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	210000	5.562				
540-36-3	1,4-Difluorobenzene	408000	6.769				
3114-55-4	Chlorobenzene-d5	407000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	210000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-88H-N	SDG No.:	Q2815
Lab Sample ID:	Q2815-08	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
VX047383.D	1	08/18/25 15:35	VX081825

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\VX081825\
Data File : VX047383.D
Acq On : 18 Aug 2025 15:35
Operator : JC/MD
Sample : Q2815-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-N

Quant Time: Aug 19 01:44:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

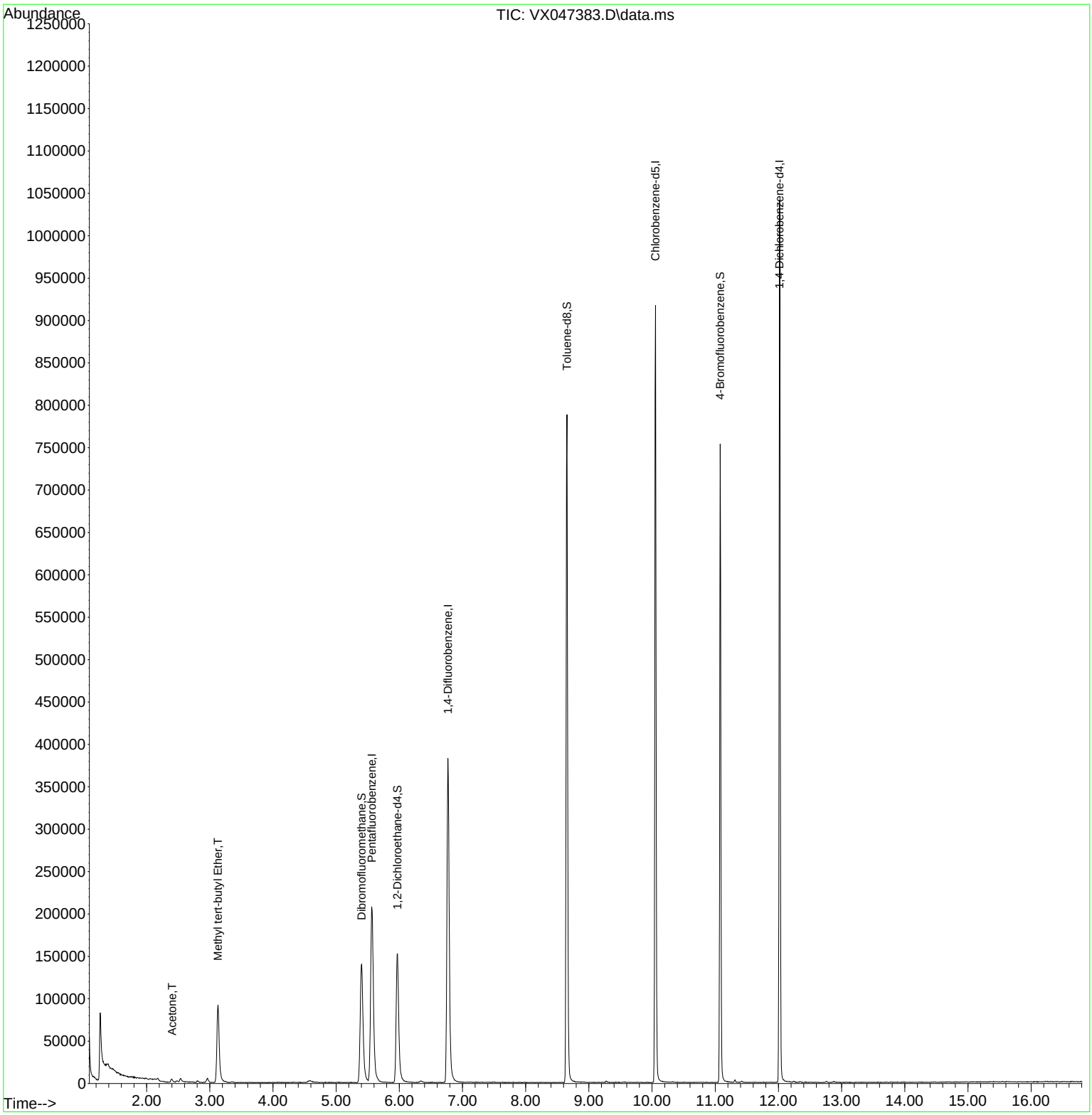
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	210172	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	408314	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	407032	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	209517	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	159813	54.332	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.660%			
35) Dibromofluoromethane	5.404	113	135188	51.014	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.020%			
50) Toluene-d8	8.653	98	480604	50.741	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.480%			
62) 4-Bromofluorobenzene	11.079	95	199196	56.990	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 113.980%			
Target Compounds						Qvalue
16) Acetone	2.404	43	5829	5.272	ug/l	89
19) Methyl tert-butyl Ether	3.130	73	108594	13.489	ug/l	98

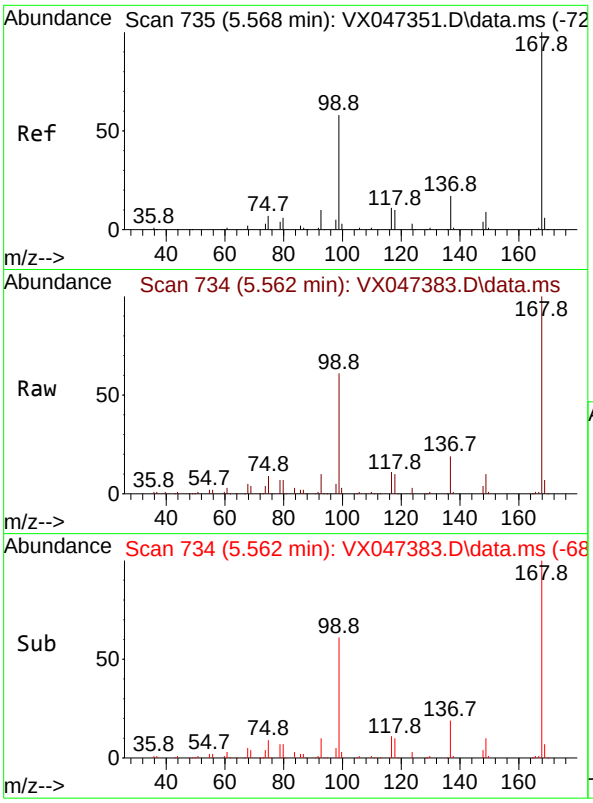
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047383.D
Acq On : 18 Aug 2025 15:35
Operator : JC/MD
Sample : Q2815-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-N

Quant Time: Aug 19 01:44:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



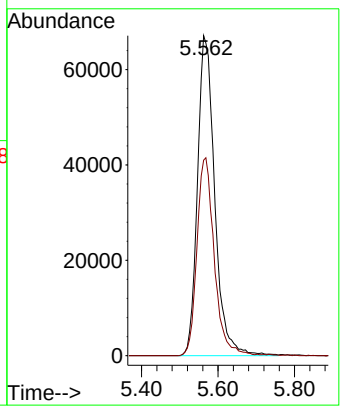


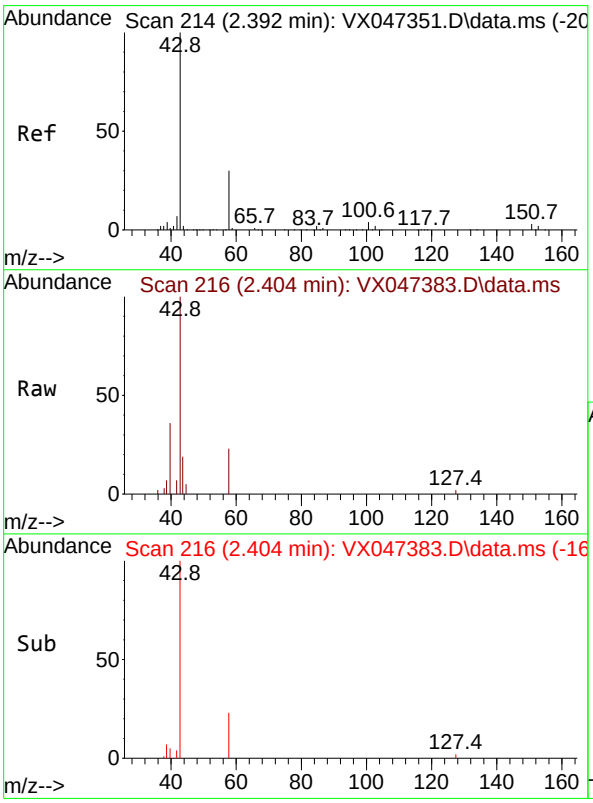
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047383.D
Acq: 18 Aug 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-N

Tgt Ion:168 Resp: 210172

Ion	Ratio	Lower	Upper
168	100		
99	61.1	47.9	71.9

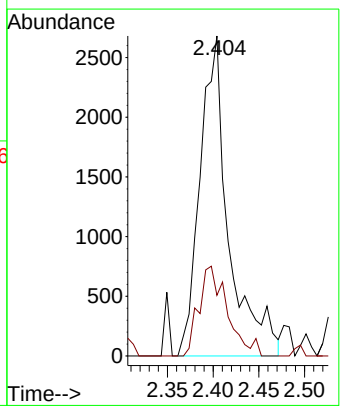


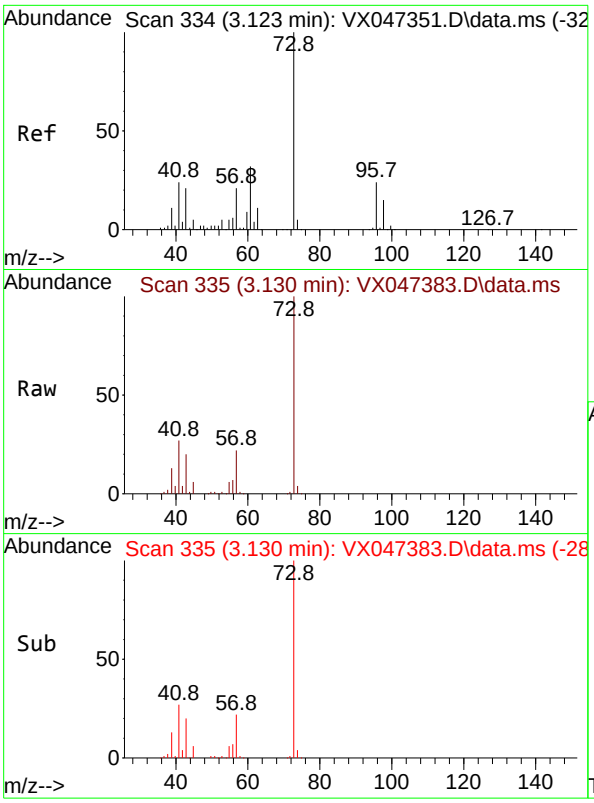


#16
Acetone
Concen: 5.272 ug/l
RT: 2.404 min Scan# 216
Delta R.T. 0.012 min
Lab File: VX047383.D
Acq: 18 Aug 2025 15:35

Tgt Ion: 43 Resp: 5829

Ion	Ratio	Lower	Upper
43	100		
58	24.8	24.8	37.2



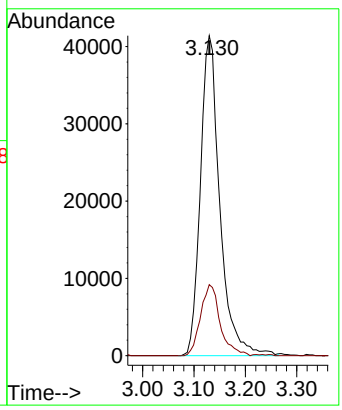


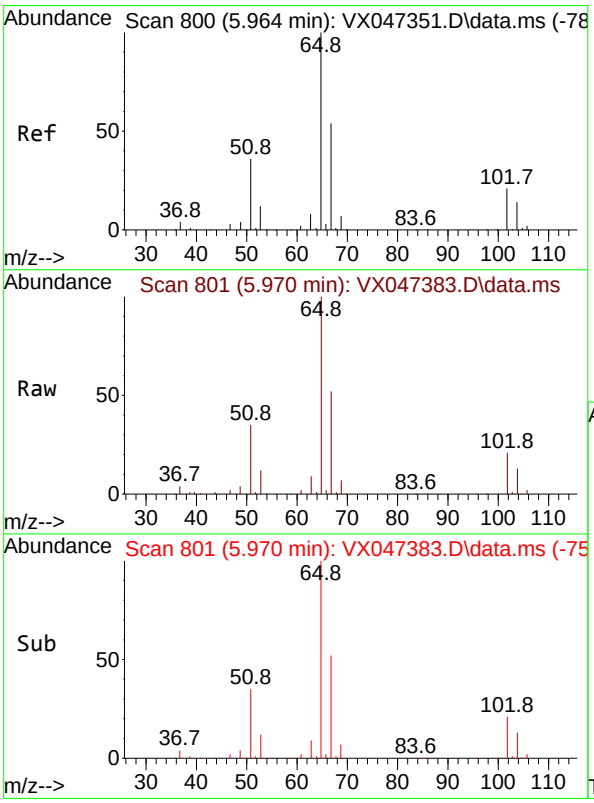
#19
Methyl tert-butyl Ether
Concen: 13.489 ug/l
RT: 3.130 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047383.D
Acq: 18 Aug 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-N

Tgt Ion: 73 Resp: 108594

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.0	25.6

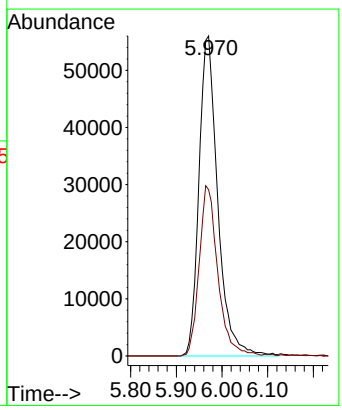


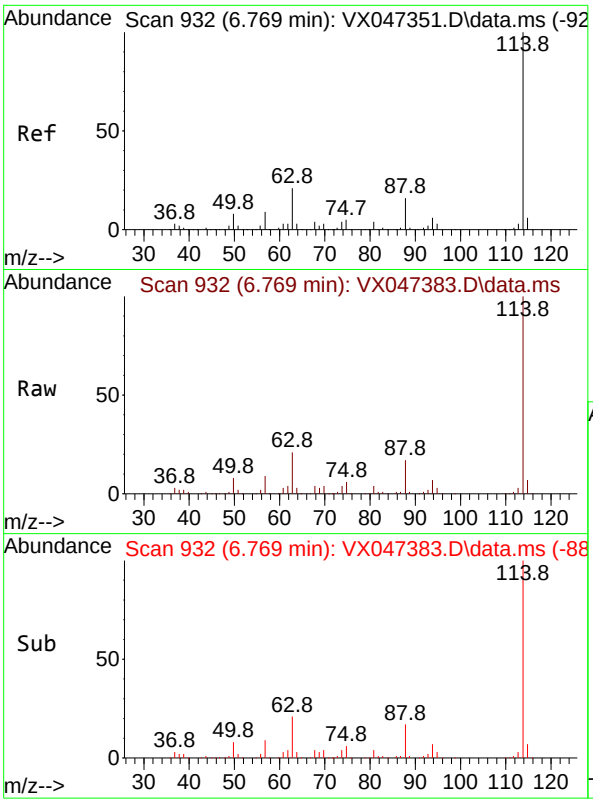


#33
1,2-Dichloroethane-d4
Concen: 54.332 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.006 min
Lab File: VX047383.D
Acq: 18 Aug 2025 15:35

Tgt Ion: 65 Resp: 159813

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	106.0



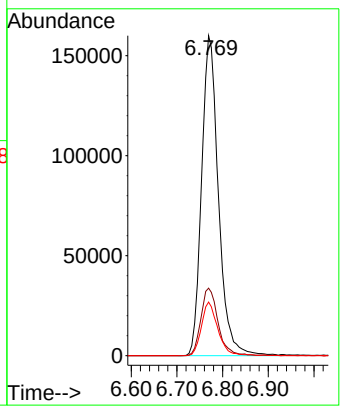


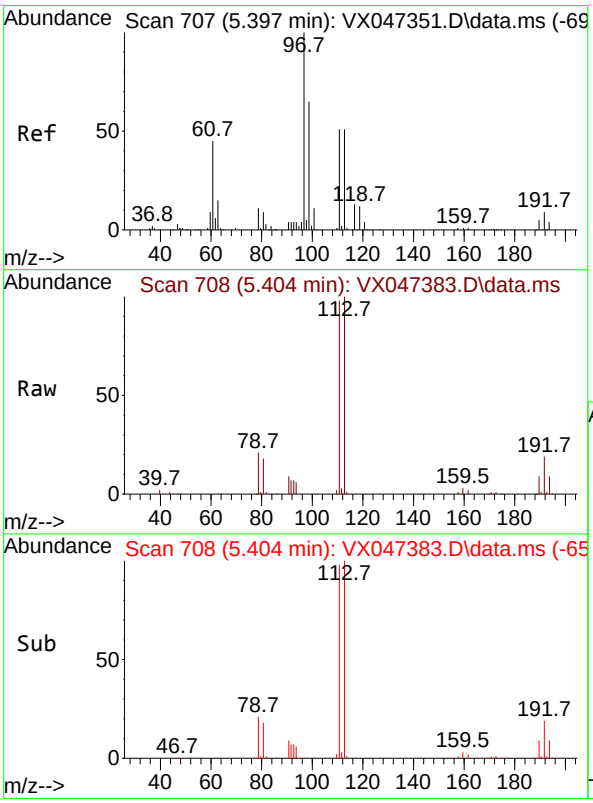
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047383.D
Acq: 18 Aug 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-N

Tgt Ion:114 Resp: 408314

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	42.4
88	16.8	0.0	33.0

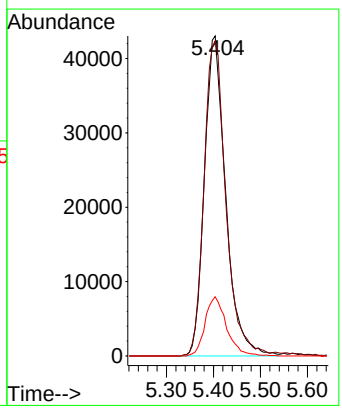


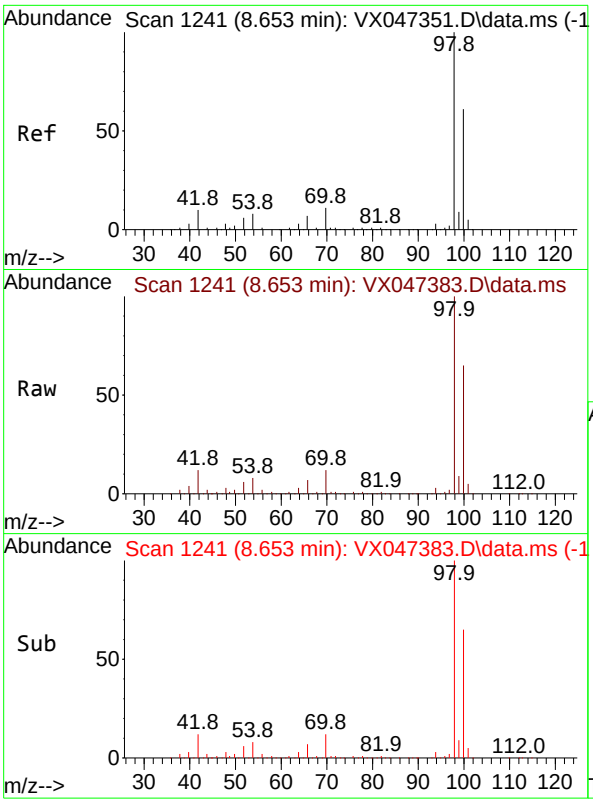


#35
Dibromofluoromethane
Concen: 51.014 ug/l
RT: 5.404 min Scan# 708
Delta R.T. 0.006 min
Lab File: VX047383.D
Acq: 18 Aug 2025 15:35

Tgt Ion:113 Resp: 135188

Ion	Ratio	Lower	Upper
113	100		
111	101.0	81.4	122.2
192	18.7	14.1	21.1



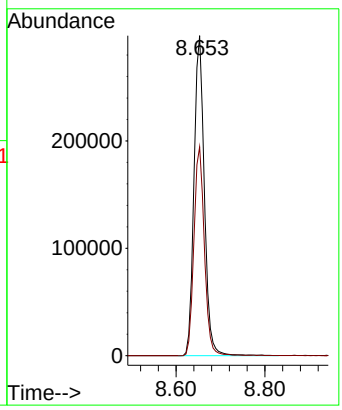


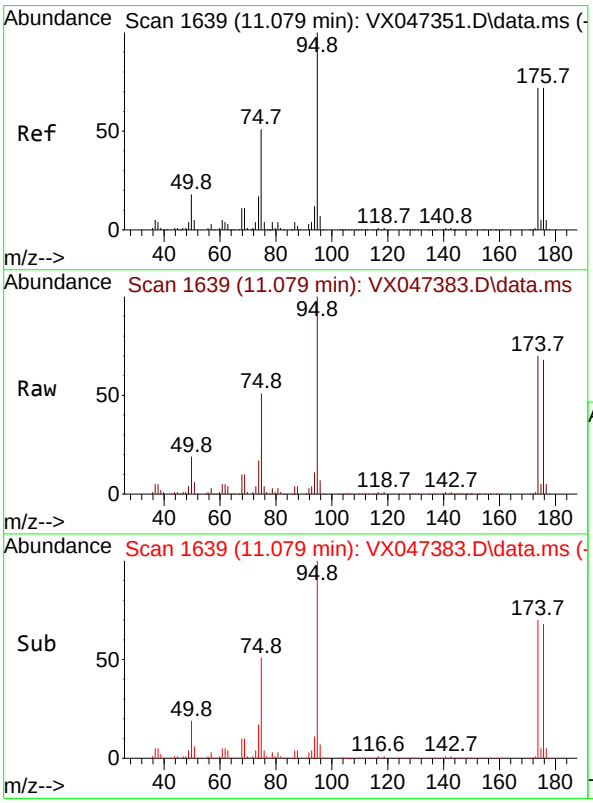
#50
Toluene-d8
Concen: 50.741 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047383.D
Acq: 18 Aug 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-N

Tgt Ion: 98 Resp: 480604

Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.9	80.9

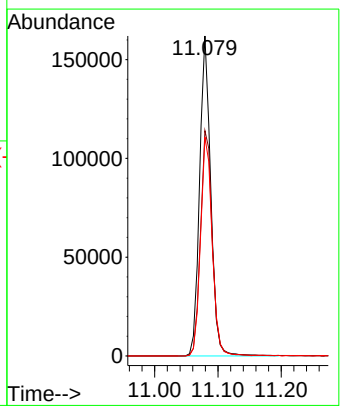


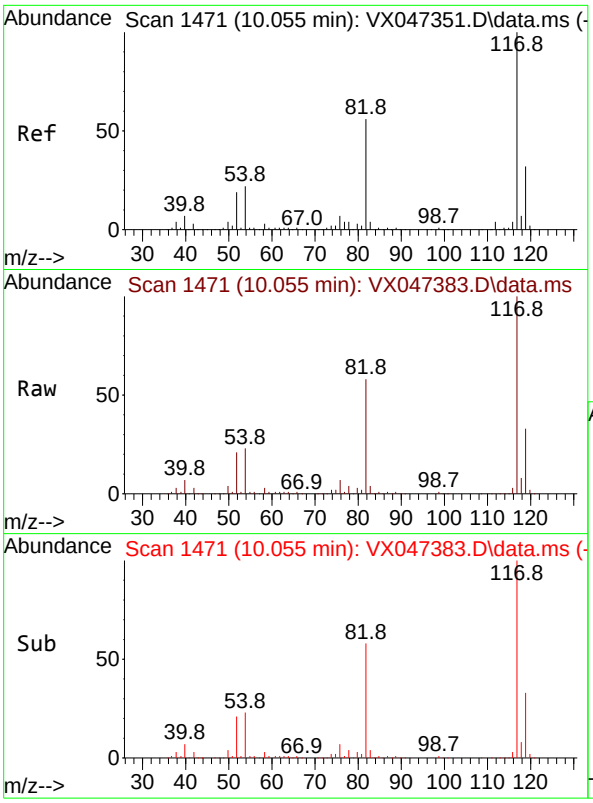


#62
4-Bromofluorobenzene
Concen: 56.990 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047383.D
Acq: 18 Aug 2025 15:35

Tgt Ion: 95 Resp: 199196

Ion	Ratio	Lower	Upper
95	100		
174	74.2	0.0	148.0
176	71.3	0.0	145.4



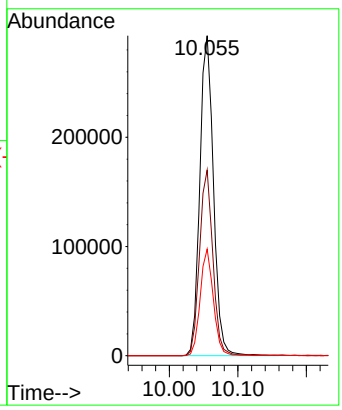


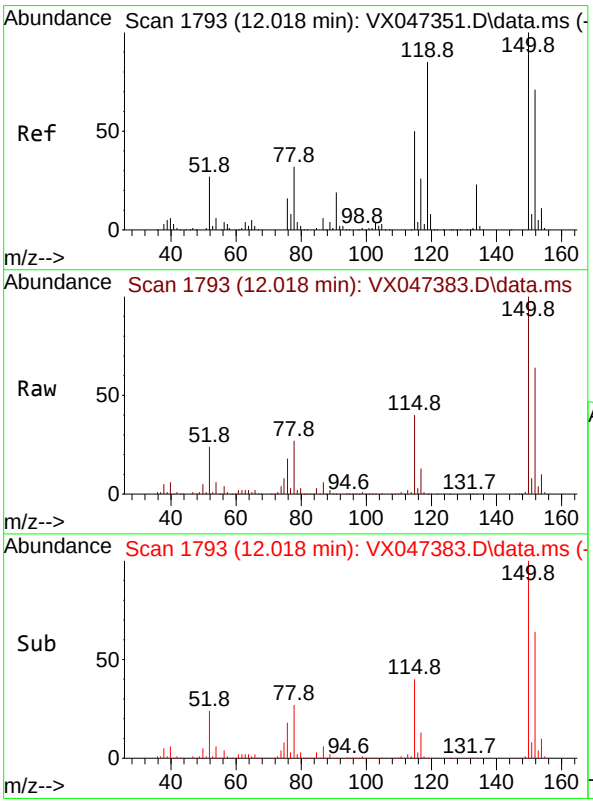
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047383.D
Acq: 18 Aug 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-N

Tgt Ion:117 Resp: 407032

Ion	Ratio	Lower	Upper
117	100		
82	58.0	45.0	67.4
119	33.3	25.8	38.8

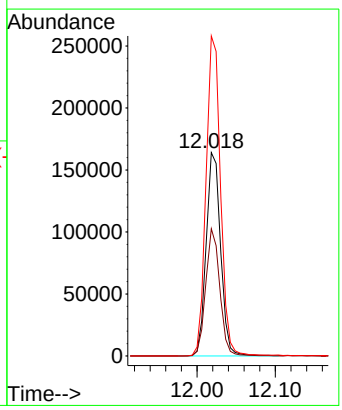




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047383.D
Acq: 18 Aug 2025 15:35

Tgt Ion:152 Resp: 209517

Ion	Ratio	Lower	Upper
152	100		
115	61.0	44.6	133.8
150	158.6	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047383.D
Acq On : 18 Aug 2025 15:35
Operator : JC/MD
Sample : Q2815-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-N

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047383.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	24	29	43	rBV	79494	211098	16.21%	2.719%
2	3.130	326	335	353	rBV	91526	241035	18.51%	3.105%
3	5.404	695	708	725	rBV2	139357	446901	34.32%	5.757%
4	5.562	725	734	755	rVB	206354	640593	49.19%	8.252%
5	5.970	789	801	818	rBV	152294	443237	34.04%	5.709%
6	6.769	923	932	955	rBV	382113	972401	74.68%	12.526%
7	8.653	1234	1241	1258	rBV	787795	1291093	99.15%	16.631%
8	10.055	1465	1471	1488	rBV	916575	1269227	97.47%	16.349%
9	11.079	1634	1639	1651	rBV	752989	945541	72.61%	12.180%
10	12.018	1788	1793	1808	rBV	1040389	1302176	100.00%	16.773%

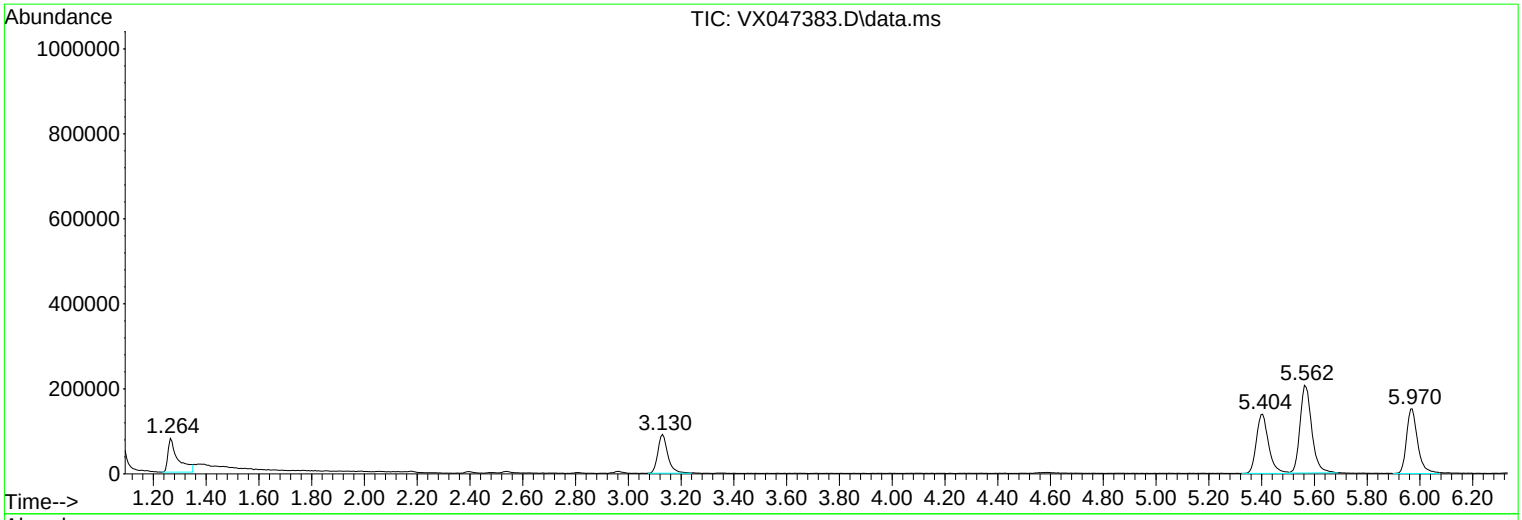
Sum of corrected areas: 7763302

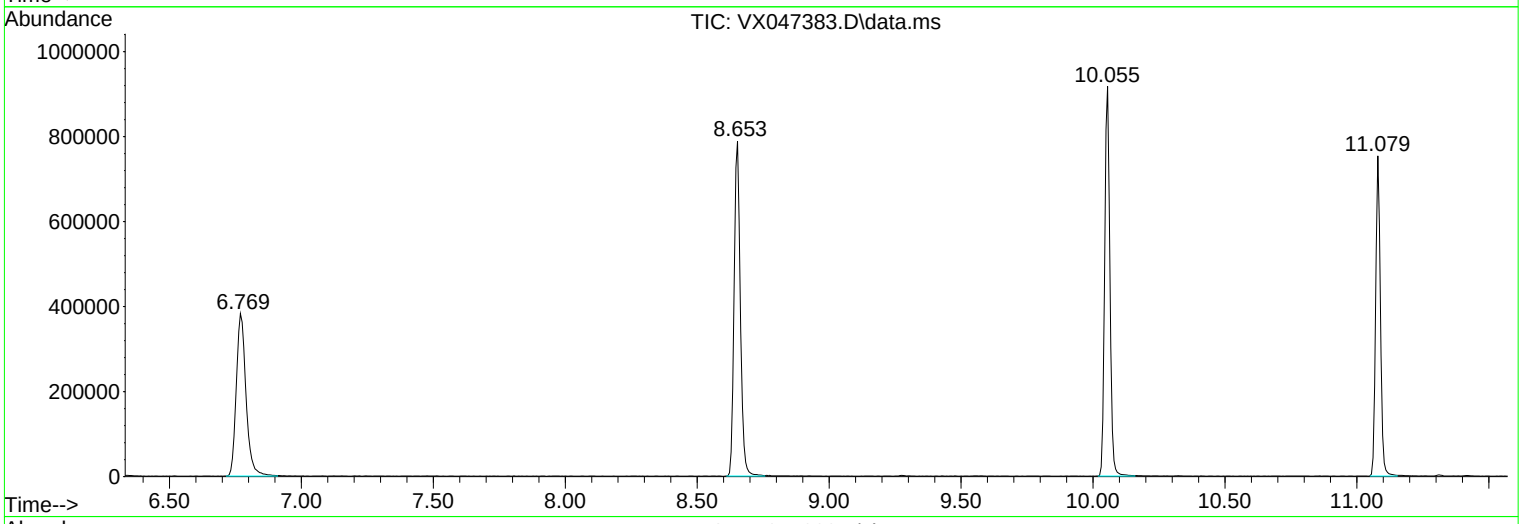
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047383.D
Acq On : 18 Aug 2025 15:35
Operator : JC/MD
Sample : Q2815-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

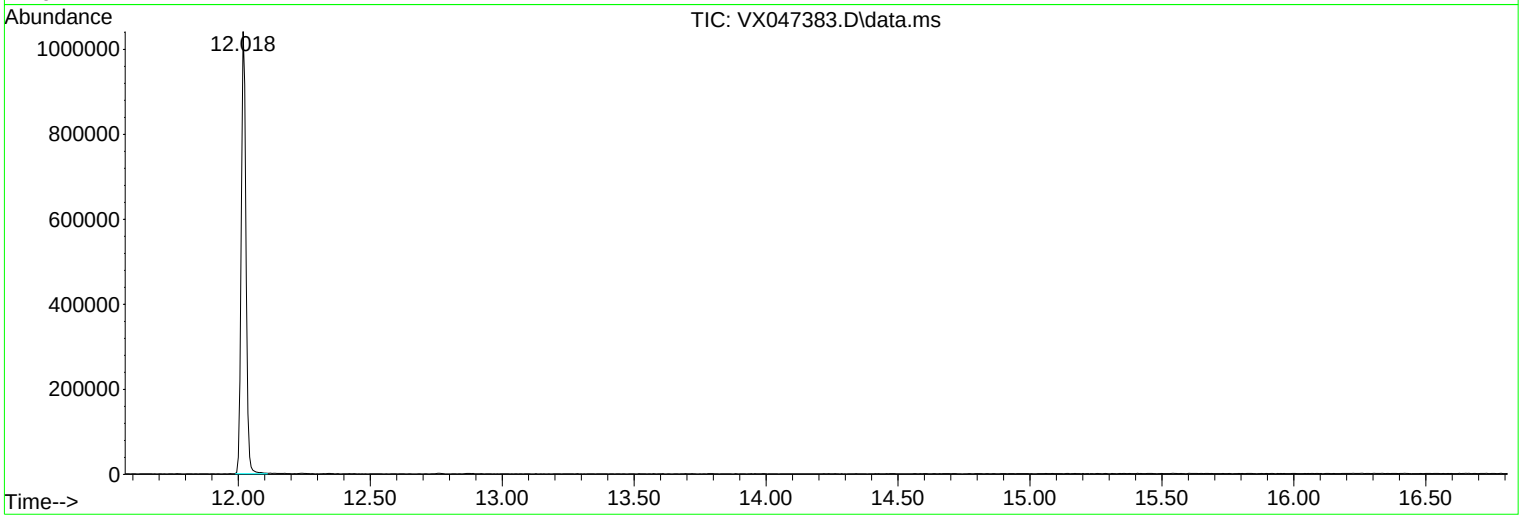
Instrument :
MSVOA_X
ClientSampleId :
TW-88H-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047383.D
Acq On : 18 Aug 2025 15:35
Operator : JC/MD
Sample : Q2815-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081825\
Data File : VX047383.D
Acq On : 18 Aug 2025 15:35
Operator : JC/MD
Sample : Q2815-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-88H-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-09	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
VX047384.D	1	08/18/25 15:57	VX081825

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	3.70	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.72	J	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	0.41	J	0.14	0.50	1.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-88H-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-09	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
VX047384.D	1	08/18/25 15:57	VX081825

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	54.6		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.3		85 - 114		113%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	290000	5.568				
540-36-3	1,4-Difluorobenzene	575000	6.769				
3114-55-4	Chlorobenzene-d5	568000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	285000	12.018				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-88H-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-09	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
VX047384.D	1	08/18/25 15:57	VX081825

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\VX081825\
Data File : VX047384.D
Acq On : 18 Aug 2025 15:57
Operator : JC/MD
Sample : Q2815-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

Quant Time: Aug 19 01:44:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

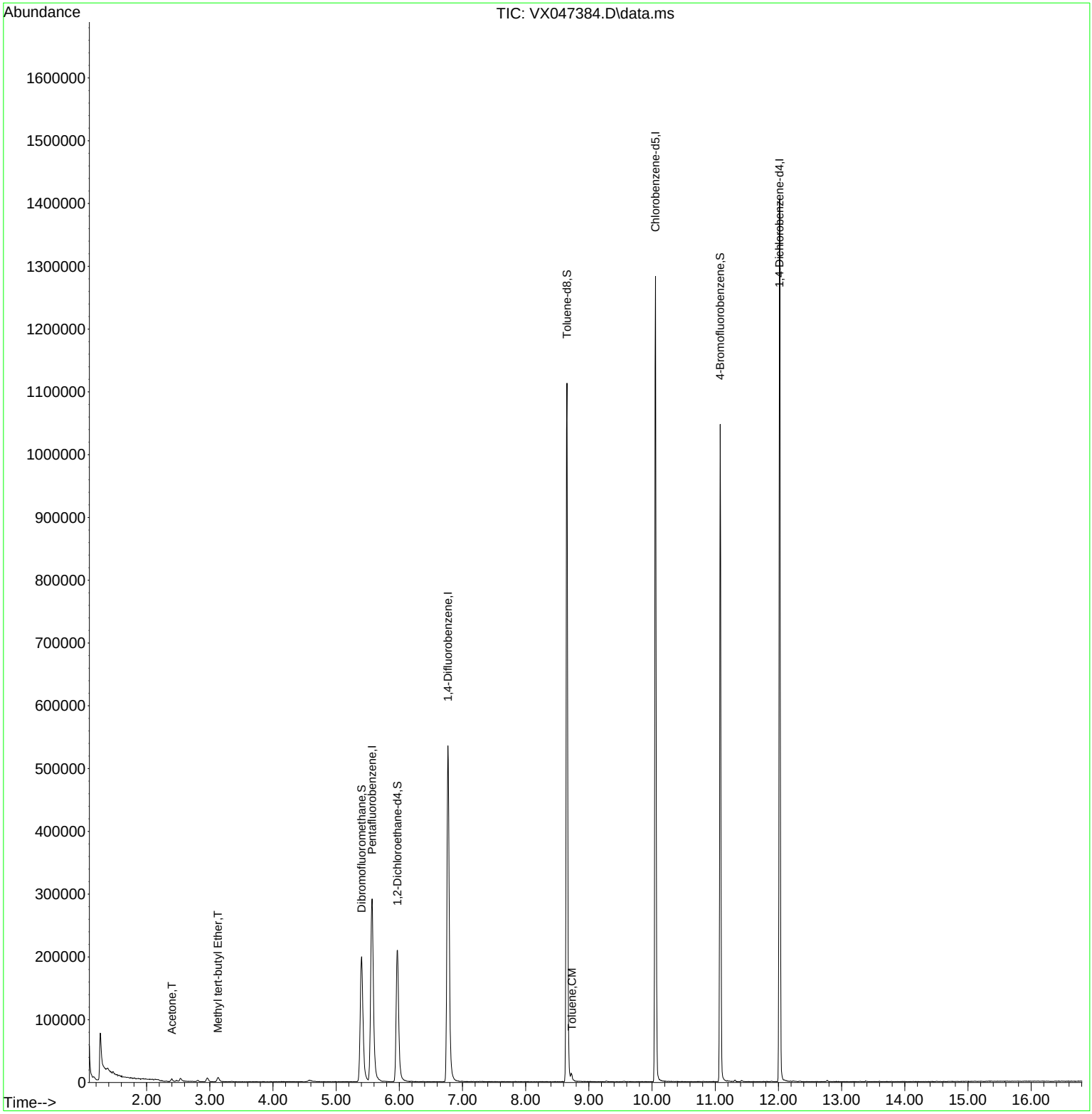
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	290353	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	574943	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	568154	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	285001	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	221717	54.562	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.120%			
35) Dibromofluoromethane	5.403	113	190013	50.922	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.840%			
50) Toluene-d8	8.653	98	675048	50.614	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.220%			
62) 4-Bromofluorobenzene	11.079	95	276904	56.262	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 112.520%			
Target Compounds						Qvalue
16) Acetone	2.398	43	5720	3.745	ug/l	94
19) Methyl tert-butyl Ether	3.129	73	8021	0.721	ug/l	91
52) Toluene	8.732	92	4470	0.410	ug/l	94

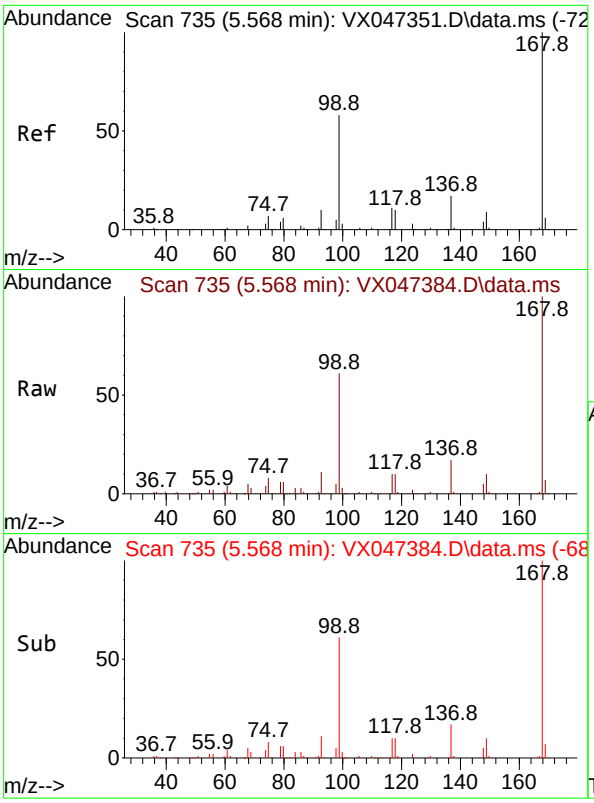
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047384.D
Acq On : 18 Aug 2025 15:57
Operator : JC/MD
Sample : Q2815-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

Quant Time: Aug 19 01:44:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



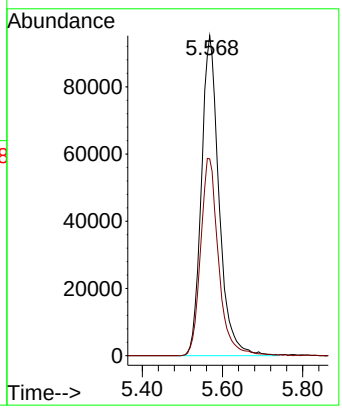


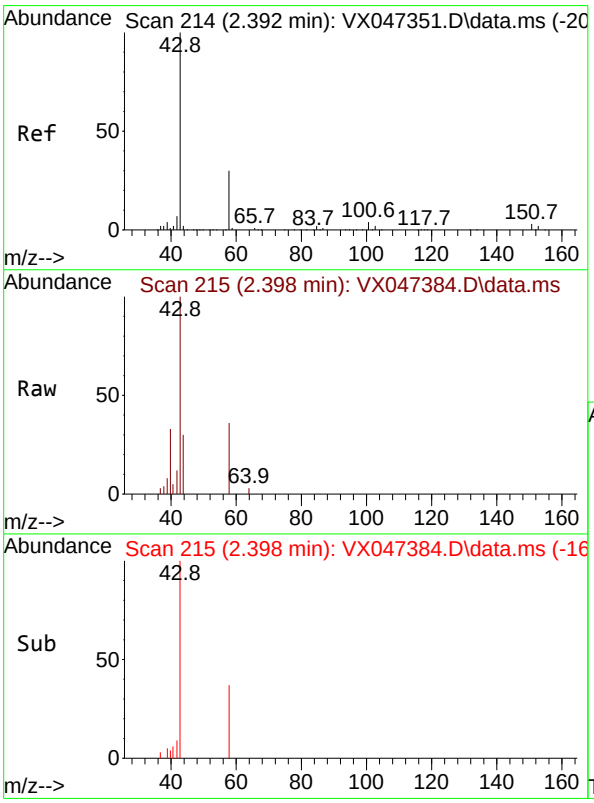
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047384.D
Acq: 18 Aug 2025 15:57

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

Tgt Ion:168 Resp: 290353

Ion	Ratio	Lower	Upper
168	100		
99	61.5	47.9	71.9

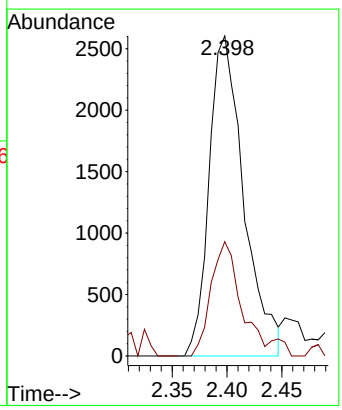


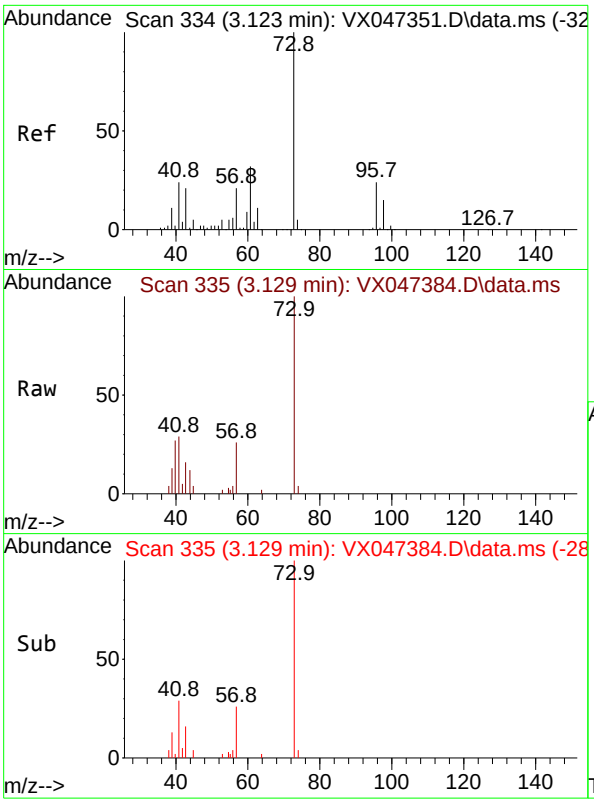


#16
Acetone
Concen: 3.745 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047384.D
Acq: 18 Aug 2025 15:57

Tgt Ion: 43 Resp: 5720

Ion	Ratio	Lower	Upper
43	100		
58	27.6	24.8	37.2



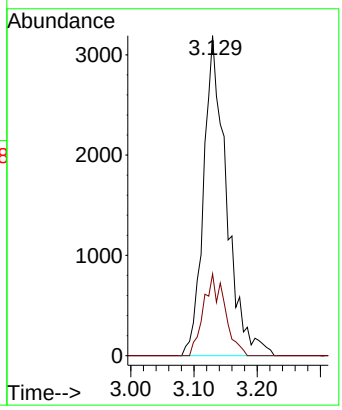


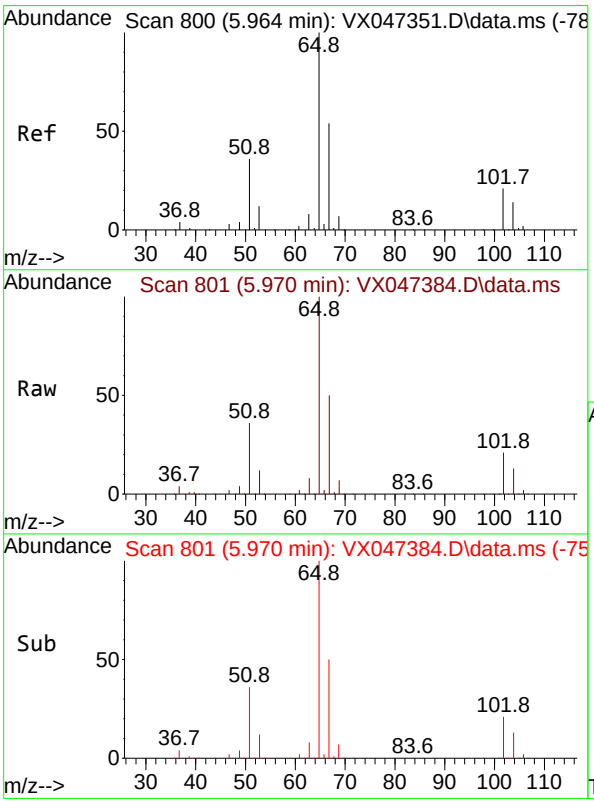
#19
Methyl tert-butyl Ether
Concen: 0.721 ug/l
RT: 3.129 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047384.D
Acq: 18 Aug 2025 15:57

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

Tgt Ion: 73 Resp: 8021

Ion	Ratio	Lower	Upper
73	100		
57	25.5	17.0	25.6

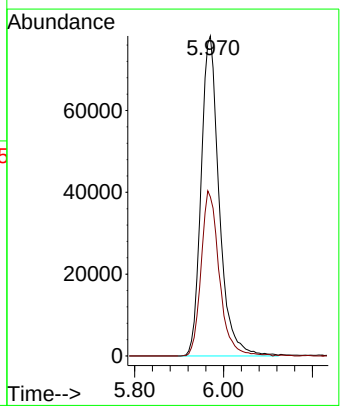


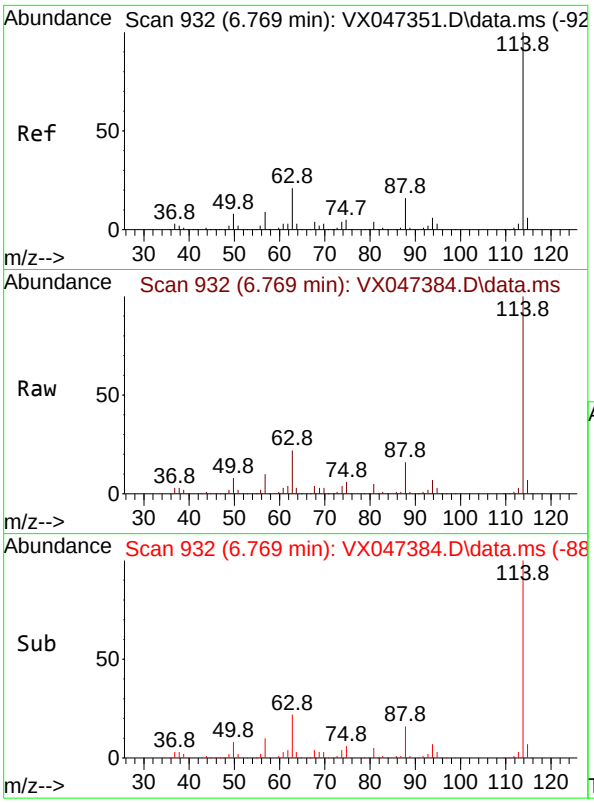


#33
1,2-Dichloroethane-d4
Concen: 54.562 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.006 min
Lab File: VX047384.D
Acq: 18 Aug 2025 15:57

Tgt Ion: 65 Resp: 221717

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	106.0



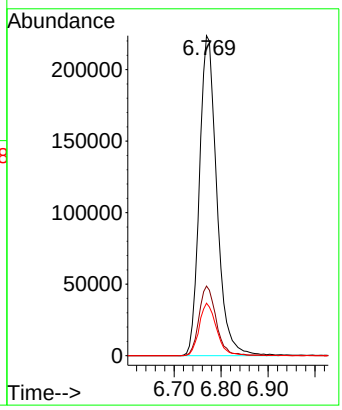


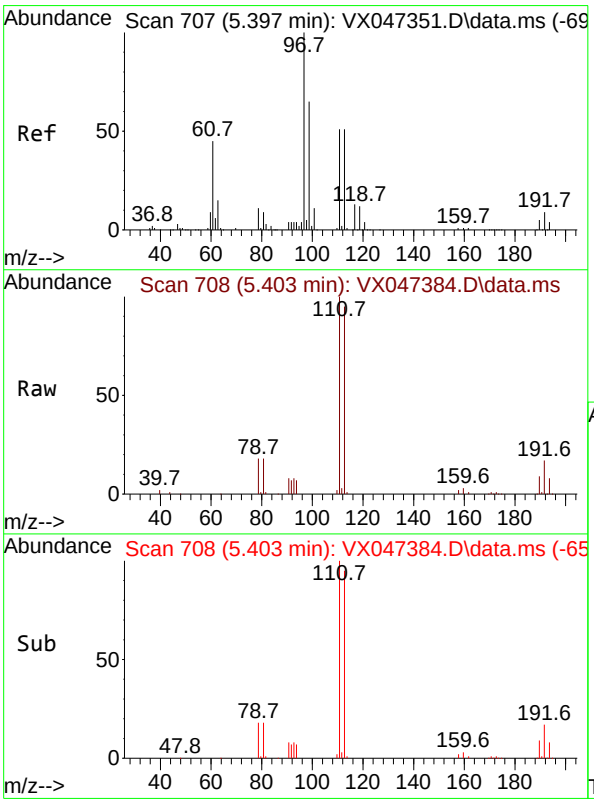
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047384.D
Acq: 18 Aug 2025 15:57

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

Tgt Ion:114 Resp: 574943

Ion	Ratio	Lower	Upper
114	100		
63	24.7	0.0	42.4
88	16.4	0.0	33.0

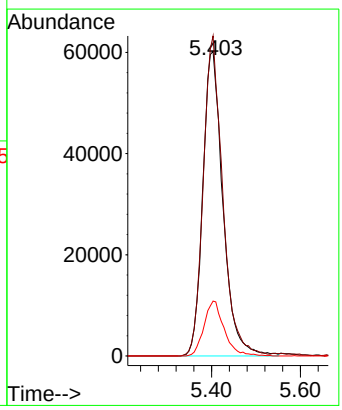


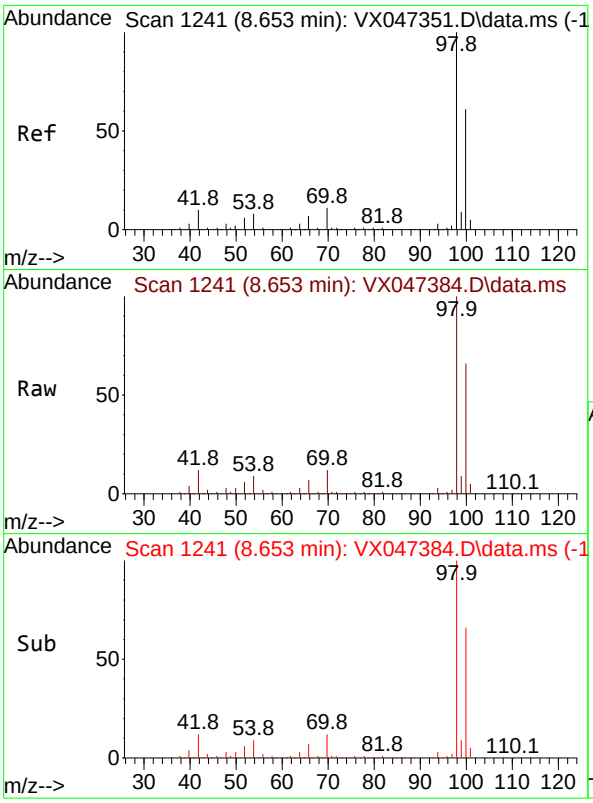


#35
Dibromofluoromethane
Concen: 50.922 ug/l
RT: 5.403 min Scan# 708
Delta R.T. 0.006 min
Lab File: VX047384.D
Acq: 18 Aug 2025 15:57

Tgt Ion:113 Resp: 190013

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.4	122.2
192	18.0	14.1	21.1



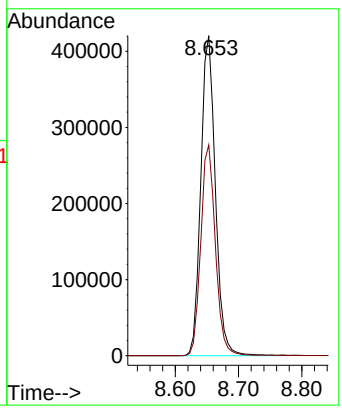


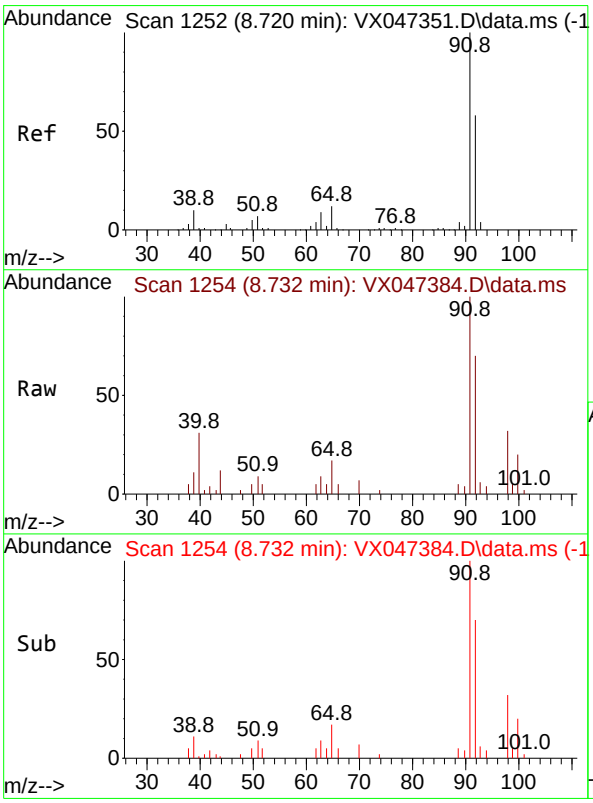
#50
Toluene-d8
Concen: 50.614 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047384.D
Acq: 18 Aug 2025 15:57

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

Tgt Ion: 98 Resp: 675048

Ion	Ratio	Lower	Upper
98	100		
100	66.0	53.9	80.9

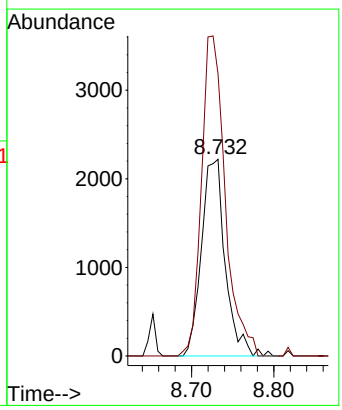


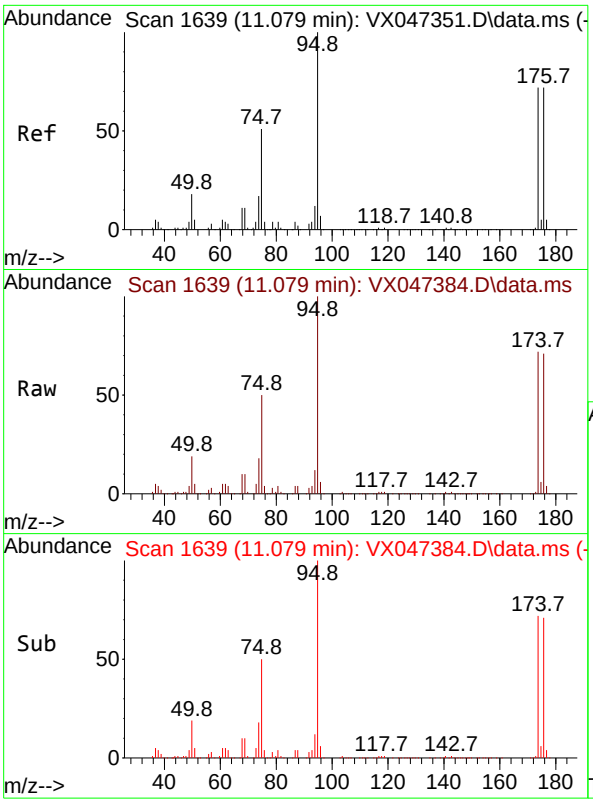


#52
Toluene
Concen: 0.410 ug/l
RT: 8.732 min Scan# 1254
Delta R.T. 0.012 min
Lab File: VX047384.D
Acq: 18 Aug 2025 15:57

Tgt Ion: 92 Resp: 4470

Ion	Ratio	Lower	Upper
92	100		
91	162.3	136.3	204.5



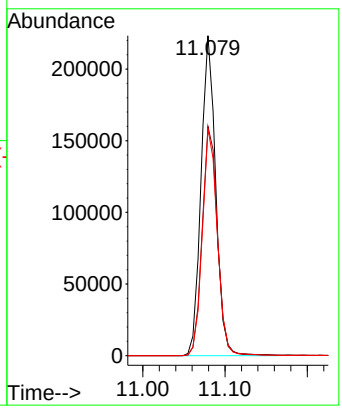


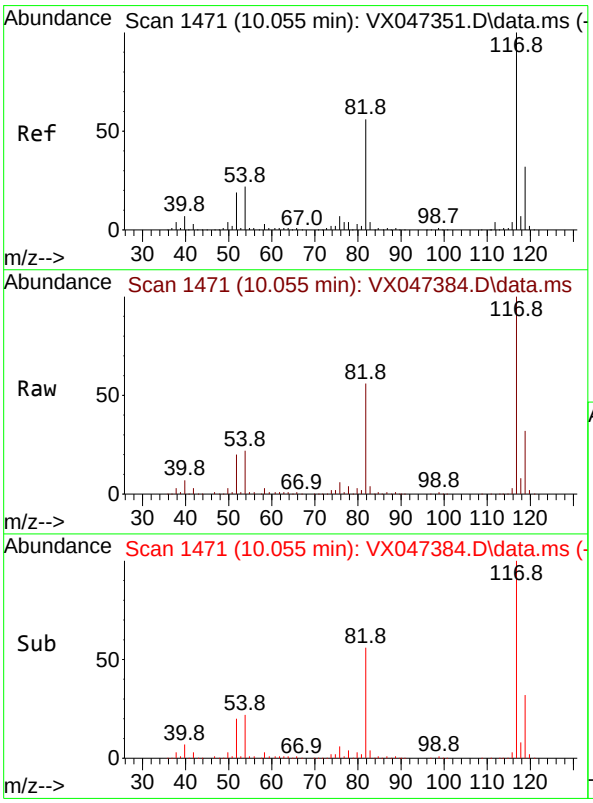
#62
4-Bromofluorobenzene
Concen: 56.262 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047384.D
Acq: 18 Aug 2025 15:57

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

Tgt Ion: 95 Resp: 276904

Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	148.0
176	72.4	0.0	145.4

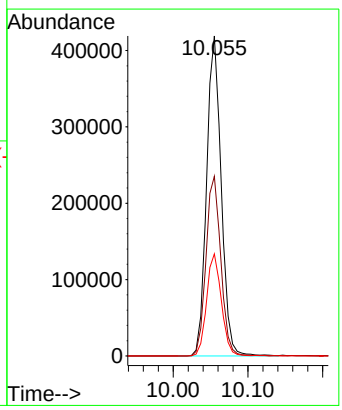


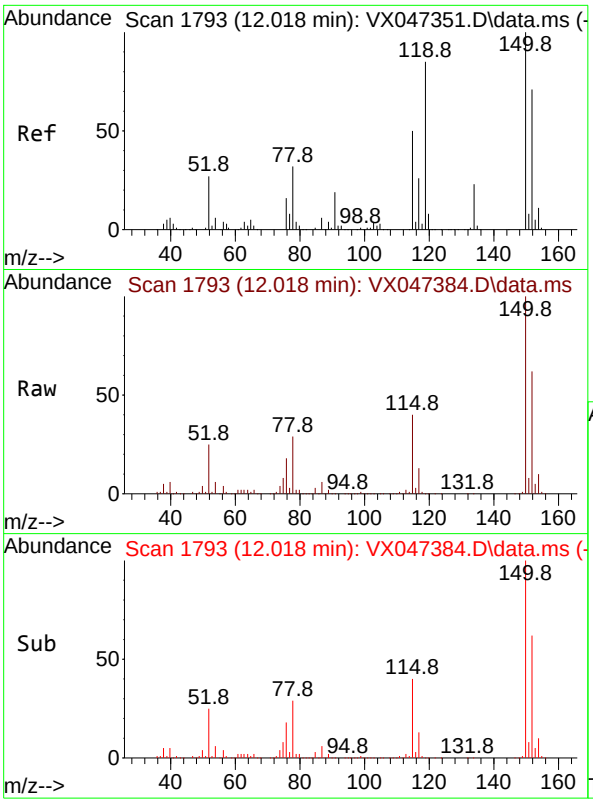


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047384.D
Acq: 18 Aug 2025 15:57

Tgt Ion:117 Resp: 568154

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.0	67.4
119	31.9	25.8	38.8



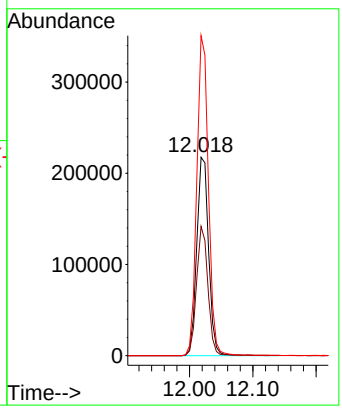


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047384.D
Acq: 18 Aug 2025 15:57

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

Tgt Ion:152 Resp: 285001

Ion	Ratio	Lower	Upper
152	100		
115	62.5	44.6	133.8
150	157.9	0.0	349.8



Sample Results: **VX047384.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047384.D
Acq On : 18 Aug 2025 15:57
Operator : JC/MD
Sample : Q2815-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047384.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	24	29	44	rBV	74415	219347	12.13%	2.105%
2	5.403	695	708	725	rBV4	199241	623670	34.48%	5.986%
3	5.568	725	735	761	rVB	290937	902341	49.89%	8.661%
4	5.970	791	801	829	rBV	209331	604904	33.45%	5.806%
5	6.769	923	932	953	rBV	535269	1366377	75.55%	13.114%
6	8.653	1234	1241	1250	rBV	1112567	1808532	100.00%	17.358%
7	8.720	1250	1252	1259	rVB2	11362	18554	1.03%	0.178%
8	10.055	1465	1471	1485	rBV	1282707	1774760	98.13%	17.034%
9	11.079	1634	1639	1656	rBV	1046753	1322772	73.14%	12.696%
10	12.018	1788	1793	1804	rBV	1406115	1777595	98.29%	17.061%

Sum of corrected areas: 10418852

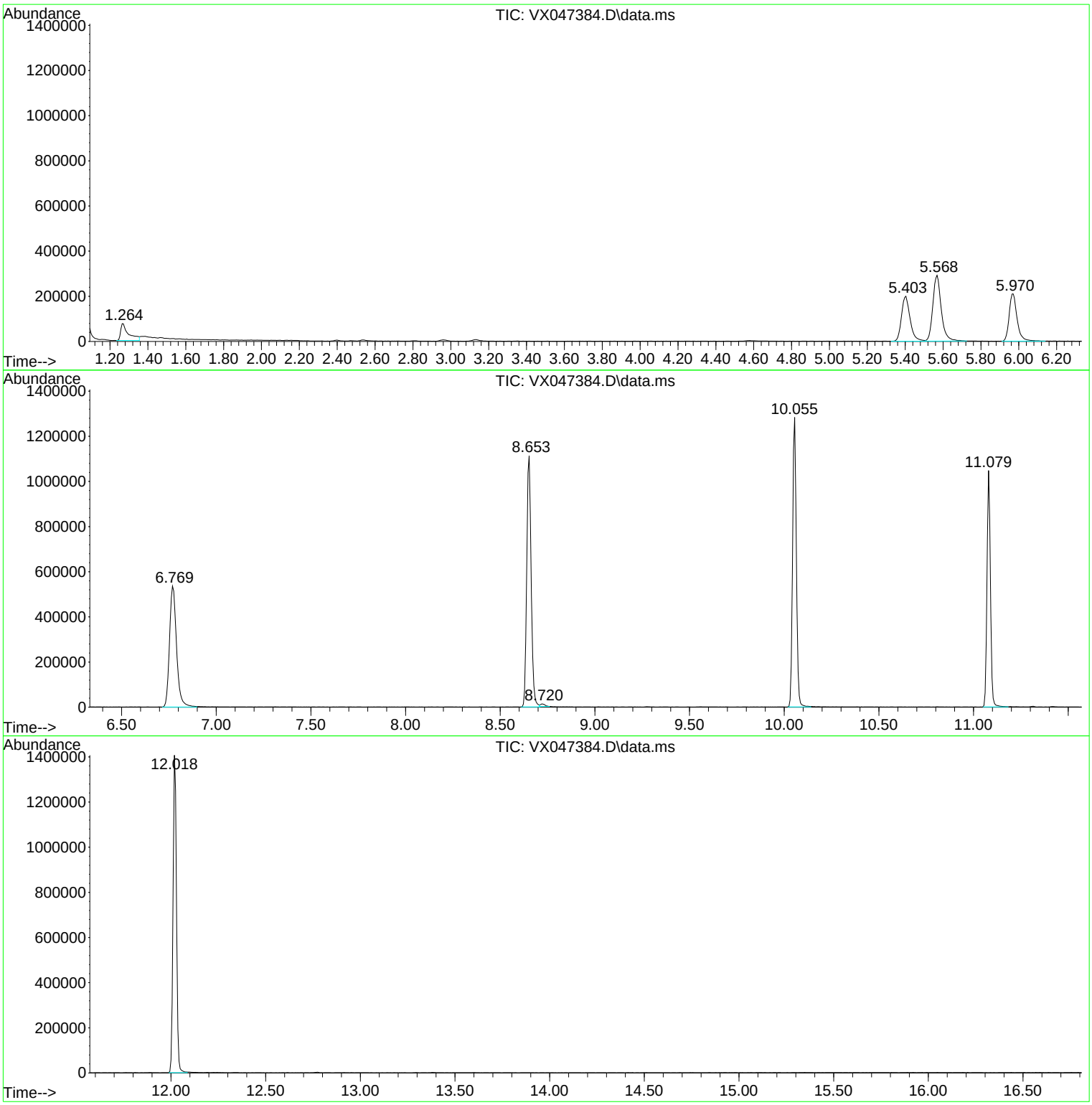
Sample Results: **VX047384.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047384.D
Acq On : 18 Aug 2025 15:57
Operator : JC/MD
Sample : Q2815-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047384.D
Acq On : 18 Aug 2025 15:57
Operator : JC/MD
Sample : Q2815-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081825\
Data File : VX047384.D
Acq On : 18 Aug 2025 15:57
Operator : JC/MD
Sample : Q2815-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-88H-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-10	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
VX047385.D	1	08/18/25 16:18	VX081825

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	5.70		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.41	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	0.50	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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-88H-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-10	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
VX047385.D	1	08/18/25 16:18	VX081825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.4		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.4		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.8		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	302000	5.568				
540-36-3	1,4-Difluorobenzene	599000	6.769				
3114-55-4	Chlorobenzene-d5	586000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	292000	12.018				

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-88H-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-10	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
VX047385.D	1	08/18/25 16:18	VX081825

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\VX081825\
Data File : VX047385.D
Acq On : 18 Aug 2025 16:18
Operator : JC/MD
Sample : Q2815-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-S

Quant Time: Aug 19 01:45:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

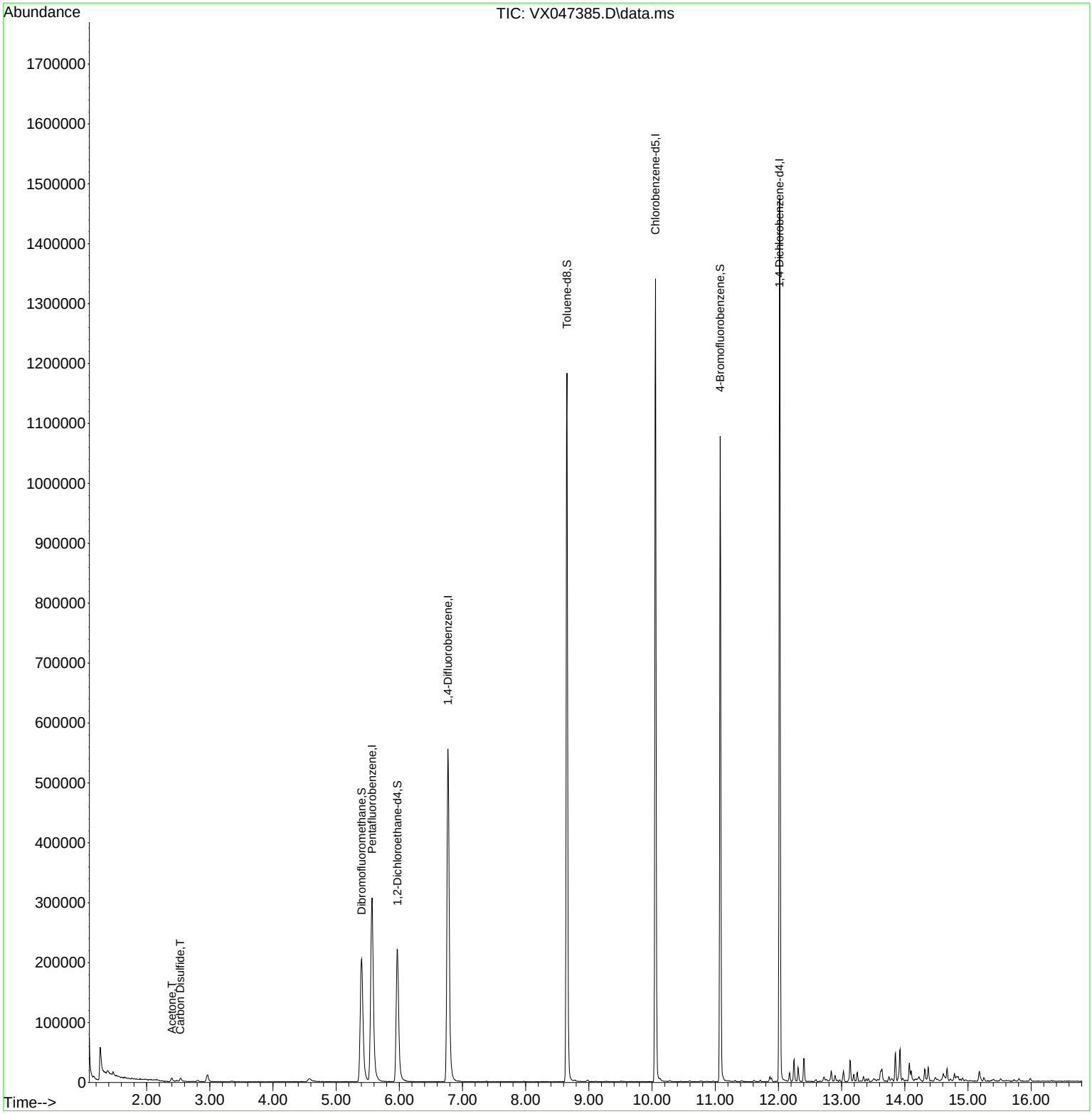
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	302438	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	598959	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	585621	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	291956	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	234397	55.377	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 110.760%			
35) Dibromofluoromethane	5.403	113	196800	50.626	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.260%			
50) Toluene-d8	8.653	98	700819	50.439	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.880%			
62) 4-Bromofluorobenzene	11.079	95	286348	55.848	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.700%			
Target Compounds						Qvalue
16) Acetone	2.398	43	9034	5.678	ug/l	97
17) Carbon Disulfide	2.532	76	4734	0.412	ug/l #	93

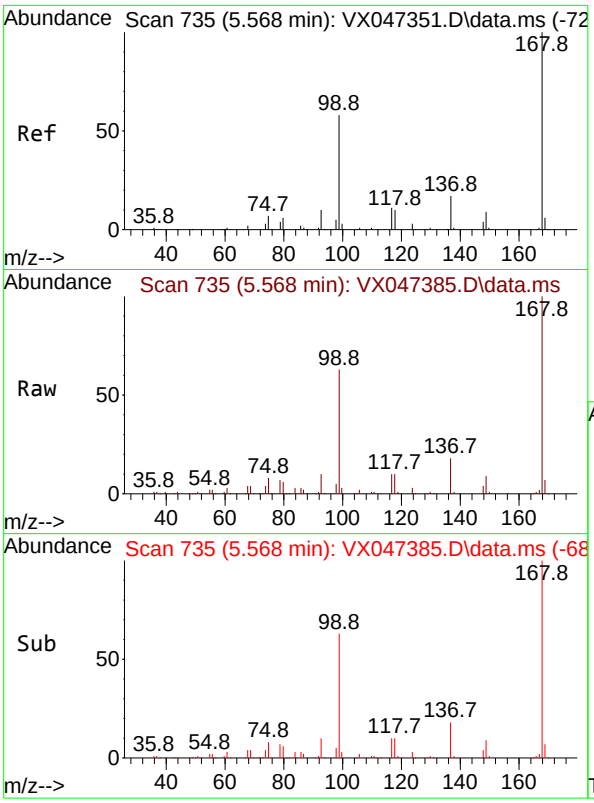
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047385.D
Acq On : 18 Aug 2025 16:18
Operator : JC/MD
Sample : Q2815-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-S

Quant Time: Aug 19 01:45:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



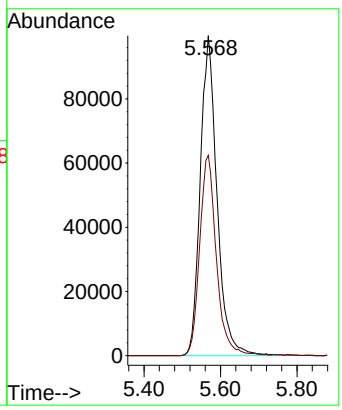


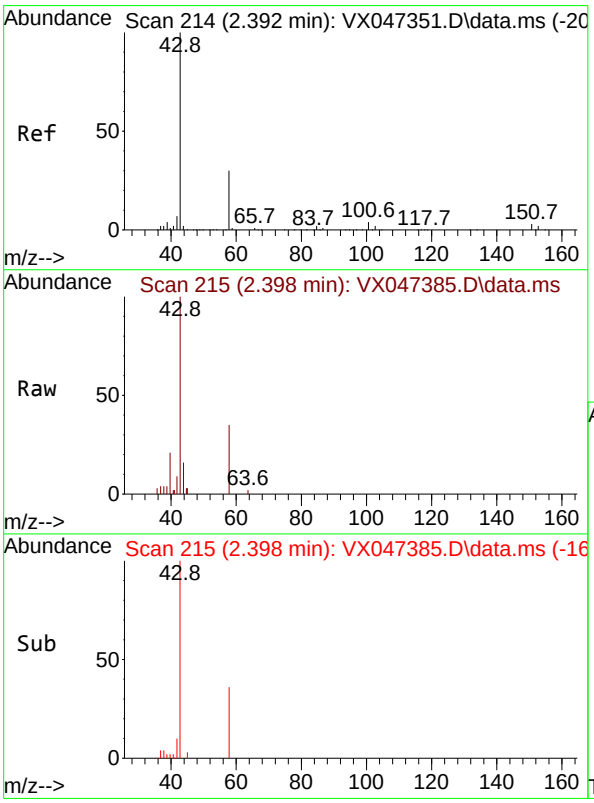
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047385.D
Acq: 18 Aug 2025 16:18

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-S

Tgt Ion:168 Resp: 302438

Ion	Ratio	Lower	Upper
168	100		
99	62.6	47.9	71.9

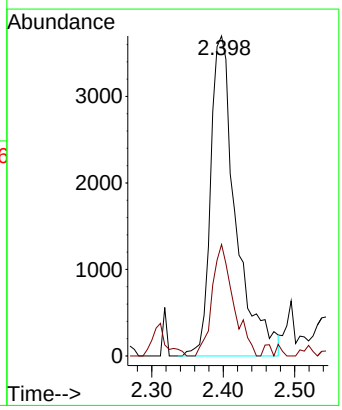


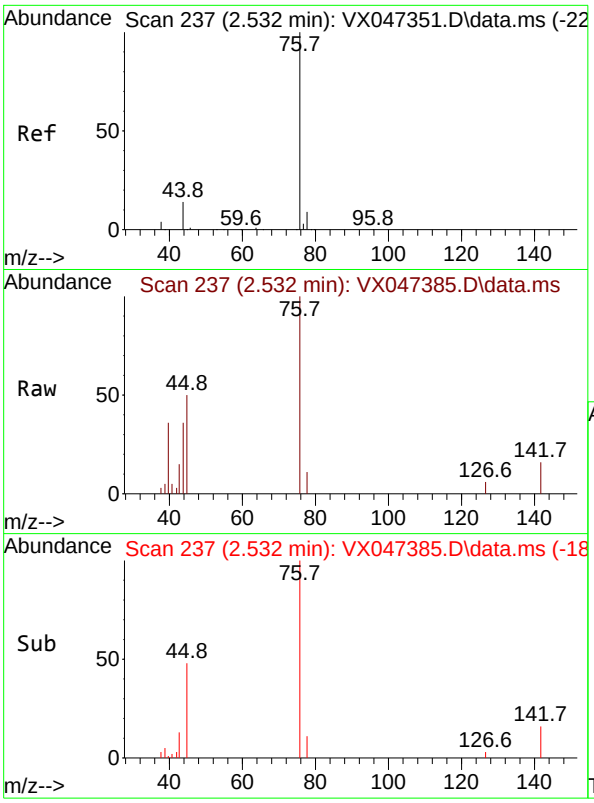


#16
Acetone
Concen: 5.678 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047385.D
Acq: 18 Aug 2025 16:18

Tgt Ion: 43 Resp: 9034

Ion	Ratio	Lower	Upper
43	100		
58	32.8	24.8	37.2



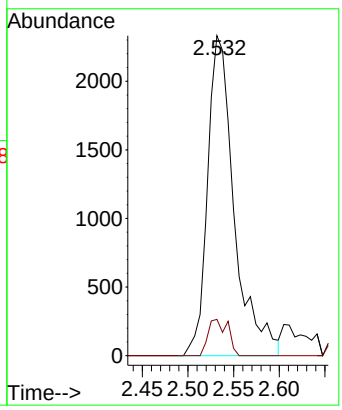


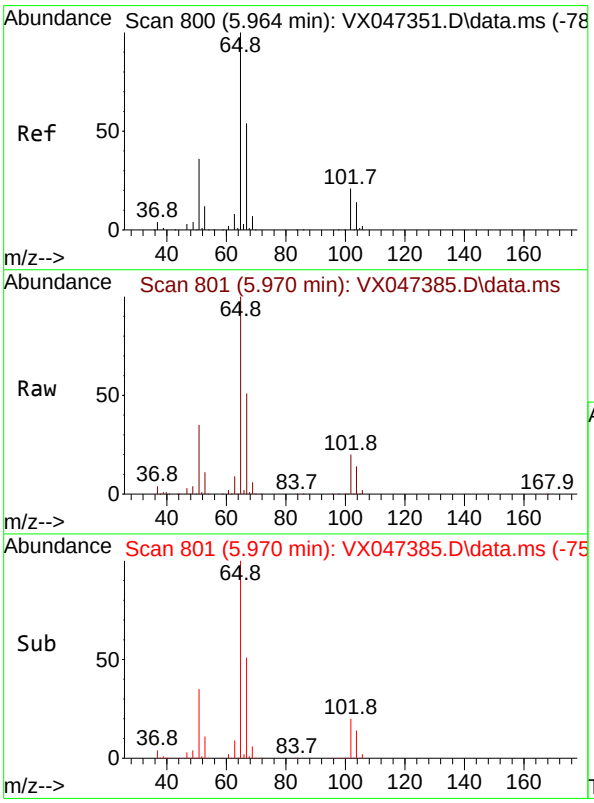
#17
Carbon Disulfide
Concen: 0.412 ug/l
RT: 2.532 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047385.D
Acq: 18 Aug 2025 16:18

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-S

Tgt Ion: 76 Resp: 4734

Ion	Ratio	Lower	Upper
76	100		
78	11.4	7.2	10.8#

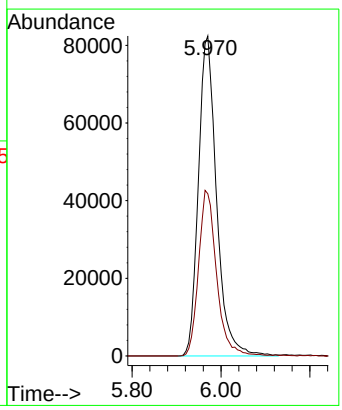


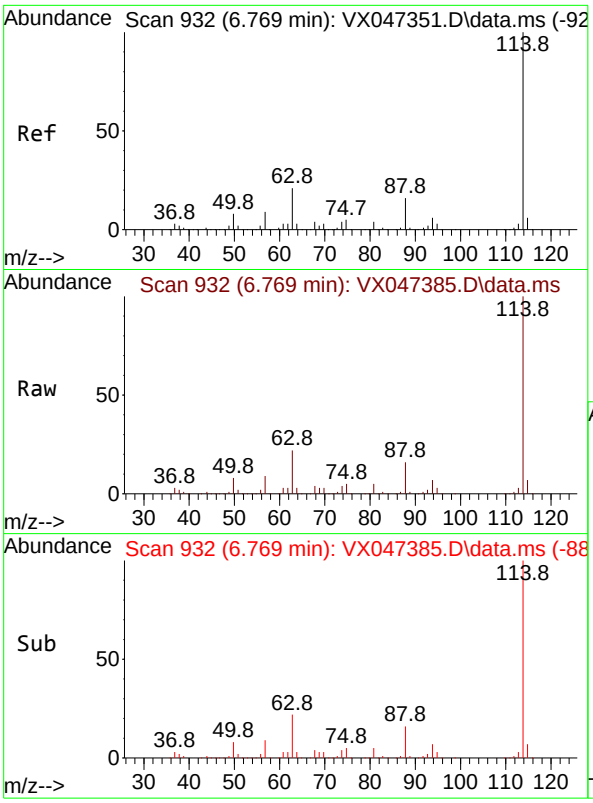


#33
1,2-Dichloroethane-d4
Concen: 55.377 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.006 min
Lab File: VX047385.D
Acq: 18 Aug 2025 16:18

Tgt Ion: 65 Resp: 234397

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	106.0



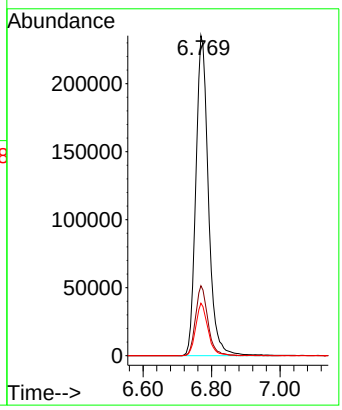


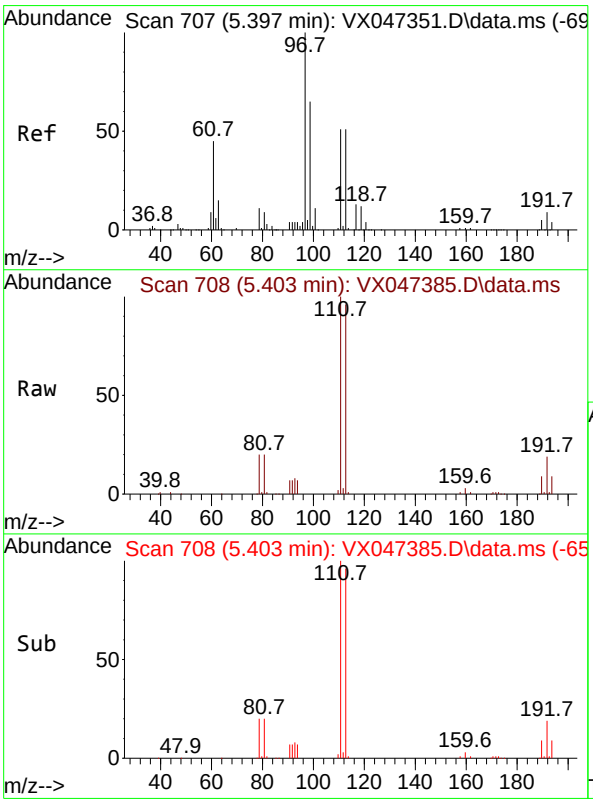
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047385.D
Acq: 18 Aug 2025 16:18

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-S

Tgt Ion:114 Resp: 598959

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	42.4
88	16.4	0.0	33.0

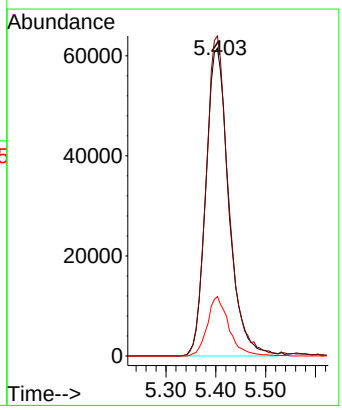


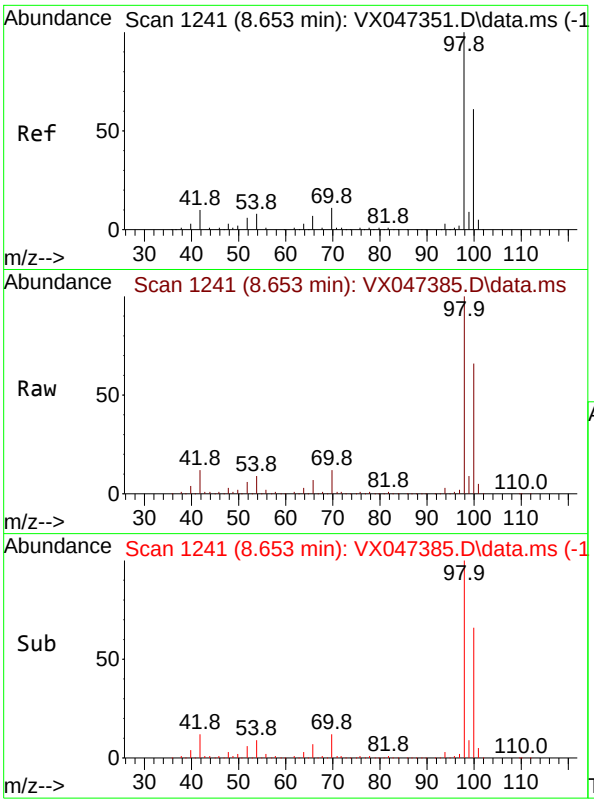


#35
Dibromofluoromethane
Concen: 50.626 ug/l
RT: 5.403 min Scan# 708
Delta R.T. 0.006 min
Lab File: VX047385.D
Acq: 18 Aug 2025 16:18

Tgt Ion:113 Resp: 196800

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.4	122.2
192	18.2	14.1	21.1



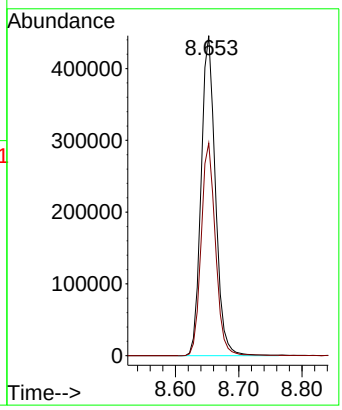


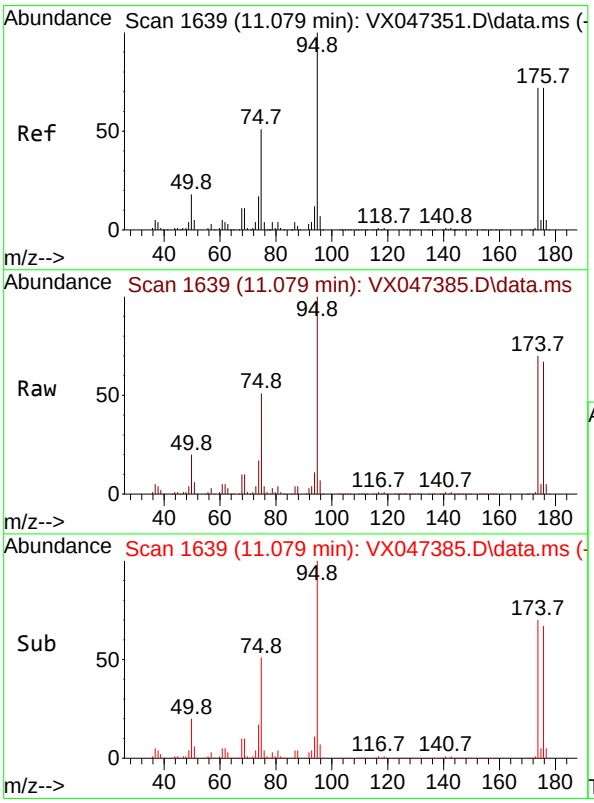
#50
Toluene-d8
Concen: 50.439 ug/l
RT: 8.653 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047385.D
Acq: 18 Aug 2025 16:18

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-S

Tgt Ion: 98 Resp: 700819

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.9	80.9

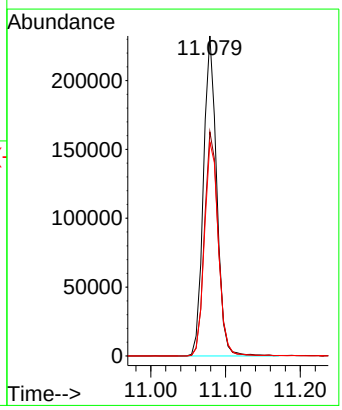


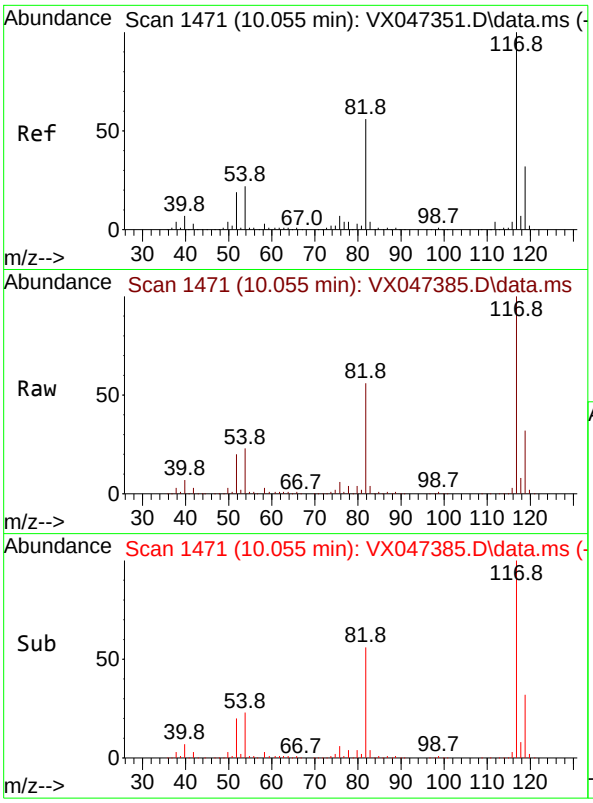


#62
4-Bromofluorobenzene
Concen: 55.848 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX047385.D
Acq: 18 Aug 2025 16:18

Tgt Ion: 95 Resp: 286348

Ion	Ratio	Lower	Upper
95	100		
174	72.6	0.0	148.0
176	70.2	0.0	145.4



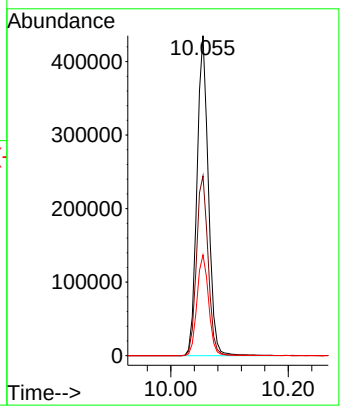


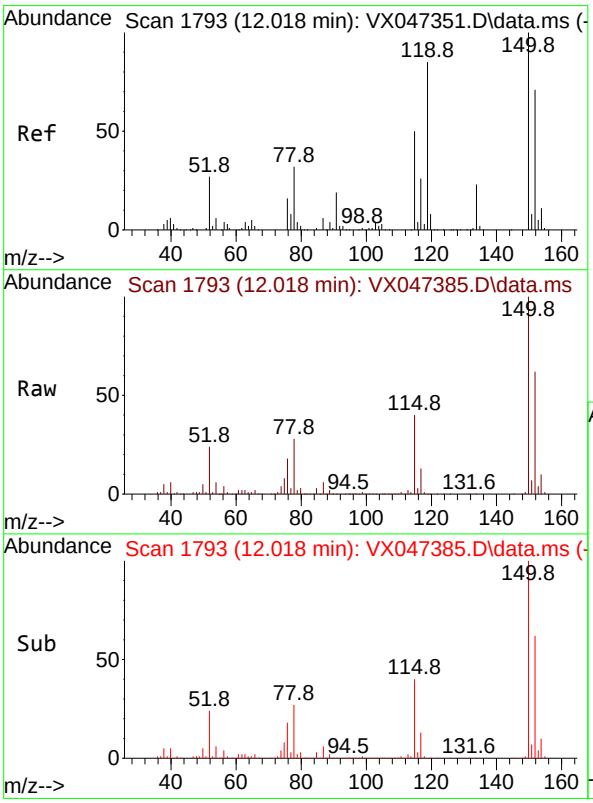
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047385.D
Acq: 18 Aug 2025 16:18

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-S

Tgt Ion:117 Resp: 585621

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.0	67.4
119	31.5	25.8	38.8

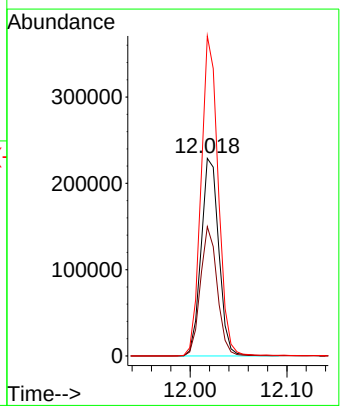




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX047385.D
Acq: 18 Aug 2025 16:18

Tgt Ion:152 Resp: 291956

Ion	Ratio	Lower	Upper
152	100		
115	62.4	44.6	133.8
150	157.5	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047385.D
Acq On : 18 Aug 2025 16:18
Operator : JC/MD
Sample : Q2815-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-S

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047385.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	25	29	40	rBV	54271	134083	7.09%	1.183%
2	2.965	300	308	316	rBV2	11480	27870	1.47%	0.246%
3	4.580	562	573	581	rBV4	5122	19410	1.03%	0.171%
4	5.403	697	708	725	rBV2	204299	643033	34.00%	5.674%
5	5.568	725	735	761	rVB	306725	937801	49.58%	8.275%
6	5.964	791	800	818	rBV	221168	633273	33.48%	5.588%
7	6.769	921	932	954	rBV	555677	1416252	74.87%	12.497%
8	8.653	1234	1241	1257	rBV	1182557	1891517	100.00%	16.691%
9	10.055	1465	1471	1481	rBV	1340261	1828343	96.66%	16.133%
10	11.079	1634	1639	1651	rBV	1076760	1359990	71.90%	12.000%
11	12.018	1788	1793	1809	rBV	1473078	1822180	96.33%	16.079%
12	12.249	1824	1831	1836	rBV	36636	48402	2.56%	0.427%
13	12.310	1838	1841	1848	rVB2	23063	29007	1.53%	0.256%
14	12.402	1851	1856	1862	rBV	38815	50165	2.65%	0.443%
15	12.835	1922	1927	1933	rVB2	16557	23246	1.23%	0.205%
16	13.030	1953	1959	1964	rBV4	17746	24119	1.28%	0.213%
17	13.133	1969	1976	1981	rBV2	35142	51160	2.70%	0.451%
18	13.633	2056	2058	2067	rVB	19996	30692	1.62%	0.271%
19	13.853	2089	2094	2098	rBV	46230	59809	3.16%	0.528%
20	13.926	2098	2106	2110	rBV	52664	75127	3.97%	0.663%
21	14.072	2126	2130	2133	rBV	29776	40665	2.15%	0.359%
22	14.103	2133	2135	2142	rVB6	16629	20375	1.08%	0.180%
23	14.225	2149	2155	2164	rVB10	7818	19678	1.04%	0.174%
24	14.316	2164	2170	2175	rBV	20443	31156	1.65%	0.275%
25	14.371	2175	2179	2184	rVB2	22382	30890	1.63%	0.273%
26	14.609	2210	2218	2225	rBV9	11617	30169	1.59%	0.266%
27	14.670	2225	2228	2233	rVB2	20081	25383	1.34%	0.224%
28	15.182	2307	2312	2320	rVB2	15648	29025	1.53%	0.256%

Sum of corrected areas: 11332820

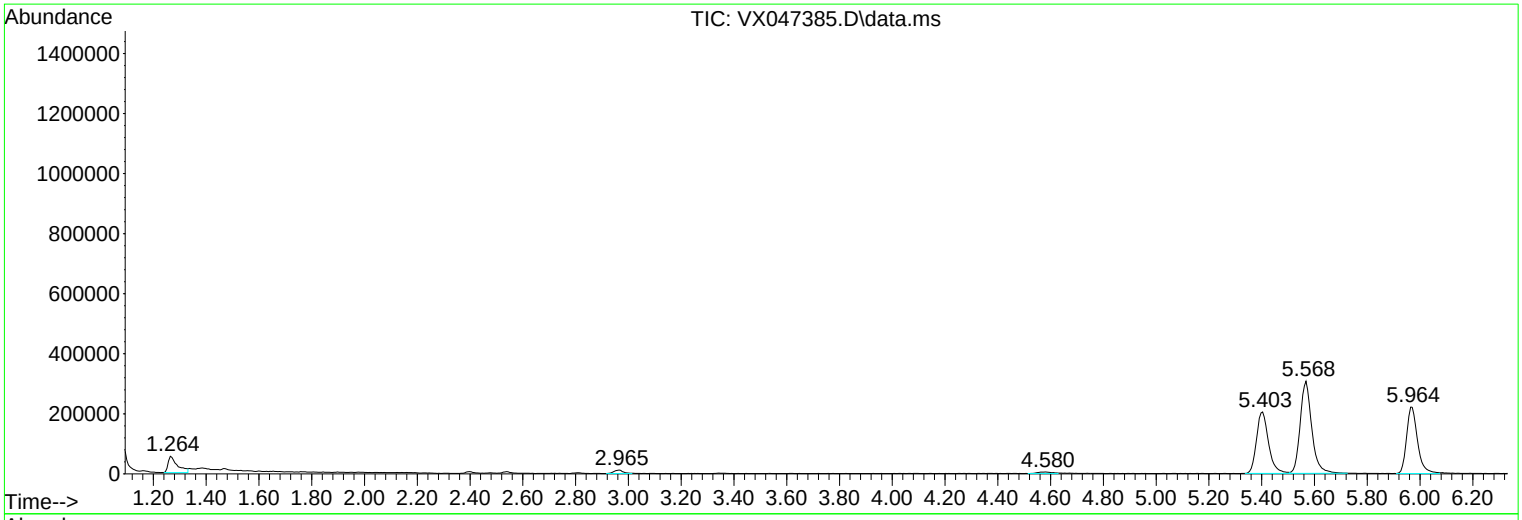
Sample Results: **VX047385.D**

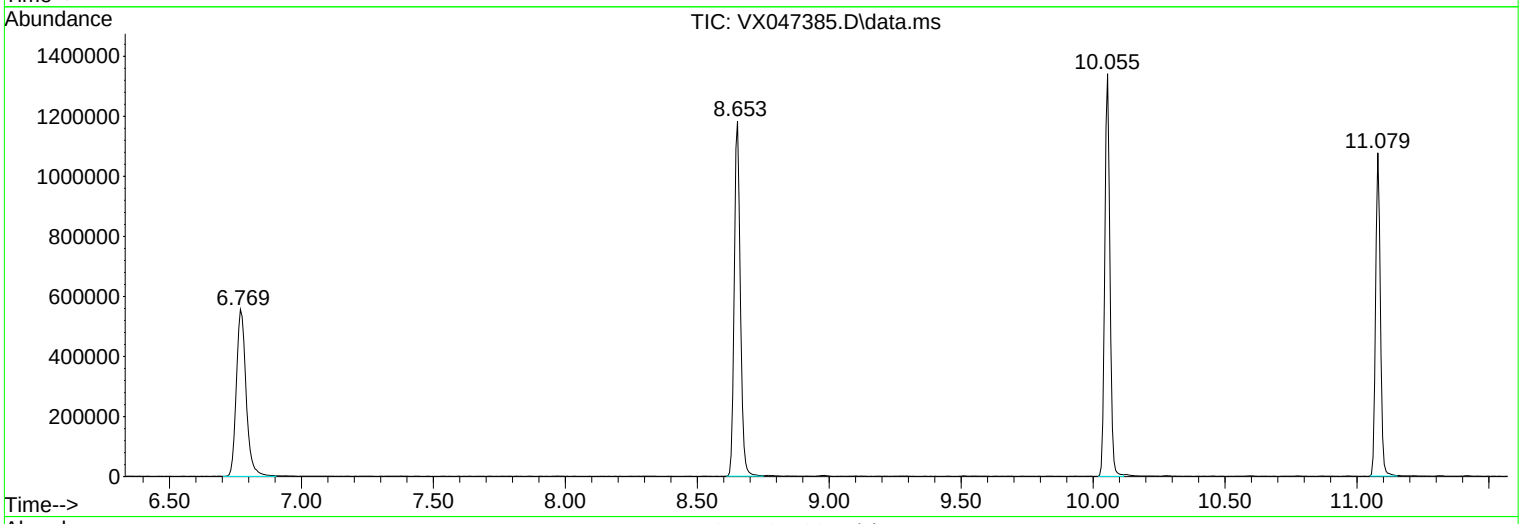
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047385.D
Acq On : 18 Aug 2025 16:18
Operator : JC/MD
Sample : Q2815-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

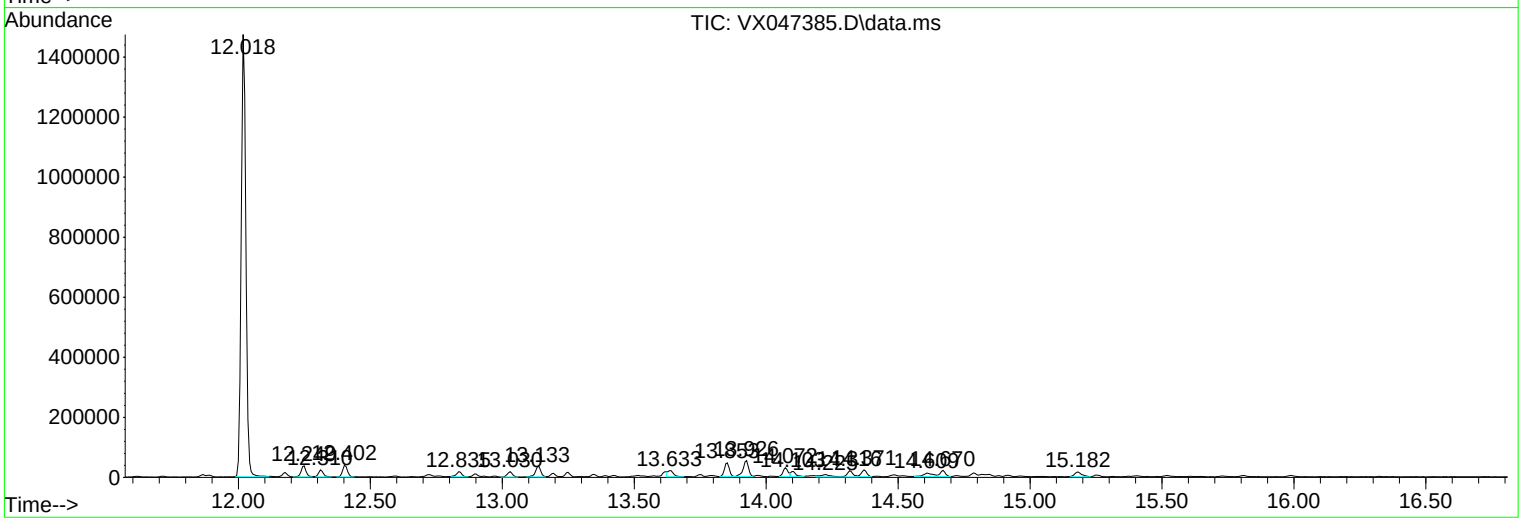
Instrument :
MSVOA_X
ClientSampleId :
TW-88H-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047385.D
Acq On : 18 Aug 2025 16:18
Operator : JC/MD
Sample : Q2815-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081825\
Data File : VX047385.D
Acq On : 18 Aug 2025 16:18
Operator : JC/MD
Sample : Q2815-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-88H-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-22M-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-11	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
VX047404.D	1	08/19/25 12:16	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	4.40	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	1.00		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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-22M-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-11	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
VX047404.D	1	08/19/25 12:16	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.5		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	49.5		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.7		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	192000	5.562				
540-36-3	1,4-Difluorobenzene	380000	6.769				
3114-55-4	Chlorobenzene-d5	375000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	187000	12.018				
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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-22M-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-11	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
VX047404.D	1	08/19/25 12:16	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
007446-09-5	Sulfur dioxide	140	J			1.28	ug/L

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\VX081925\
Data File : VX047404.D
Acq On : 19 Aug 2025 12:16
Operator : JC/MD
Sample : Q2815-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

Quant Time: Aug 20 01:24:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

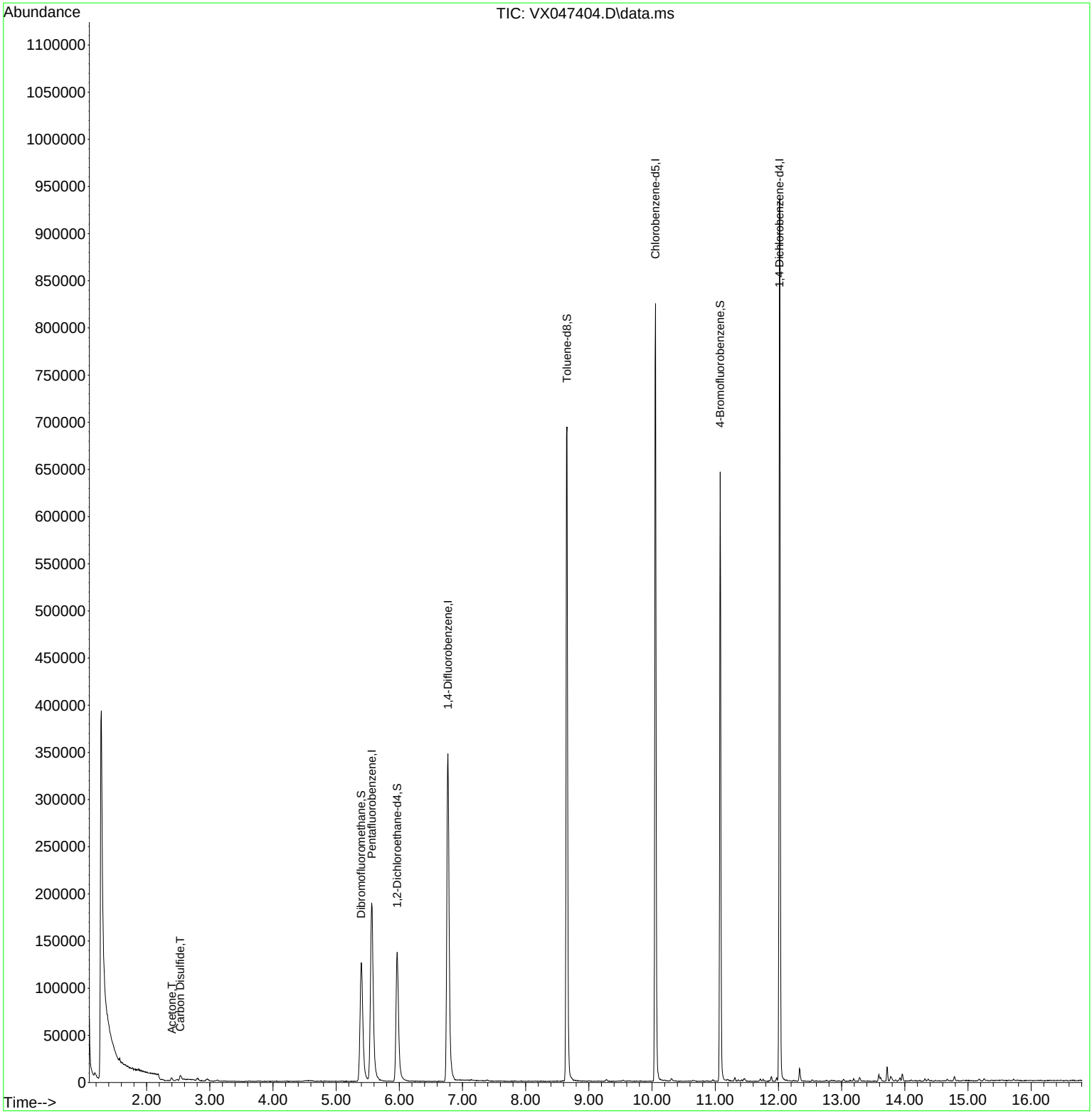
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	192034	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	380026	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	374792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	186642	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	143693	53.466	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.940%			
35) Dibromofluoromethane	5.397	113	120767	48.965	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.920%			
50) Toluene-d8	8.653	98	436381	49.501	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.000%			
62) 4-Bromofluorobenzene	11.079	95	174627	53.680	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.360%			
Target Compounds						Qvalue
16) Acetone	2.398	43	4402	4.358	ug/l	93
17) Carbon Disulfide	2.532	76	7427	1.018	ug/l	95

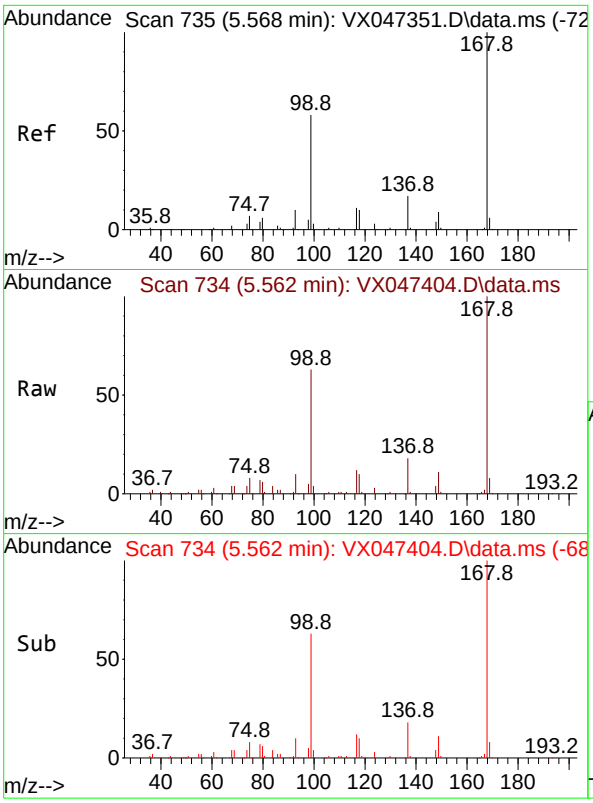
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047404.D
Acq On : 19 Aug 2025 12:16
Operator : JC/MD
Sample : Q2815-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

Quant Time: Aug 20 01:24:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



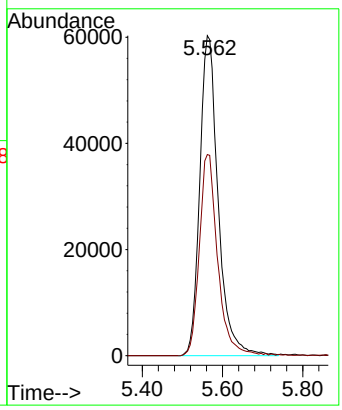


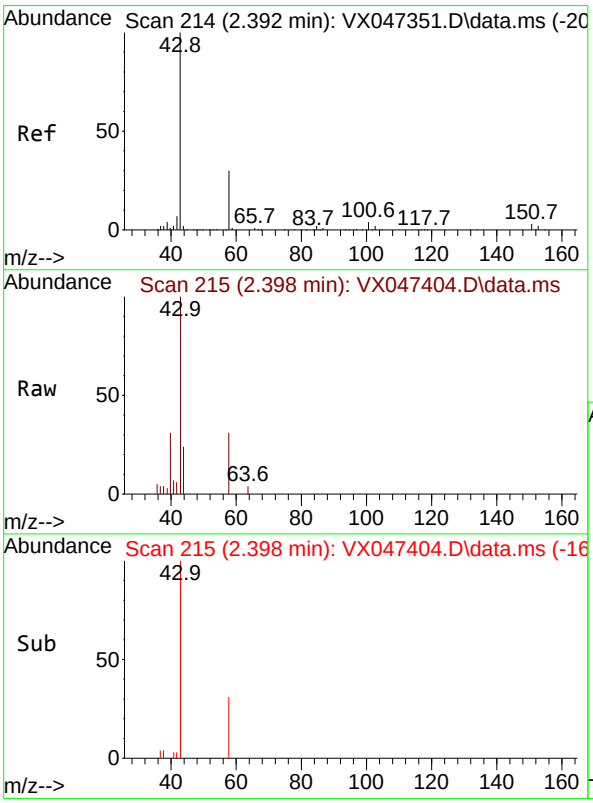
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

Tgt Ion:168 Resp: 192034

Ion	Ratio	Lower	Upper
168	100		
99	62.8	47.9	71.9

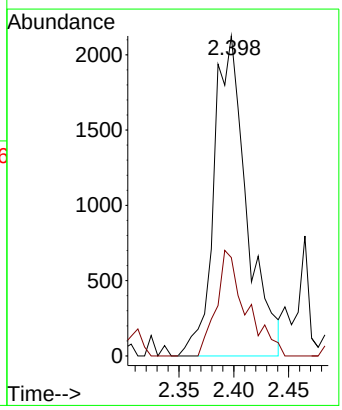


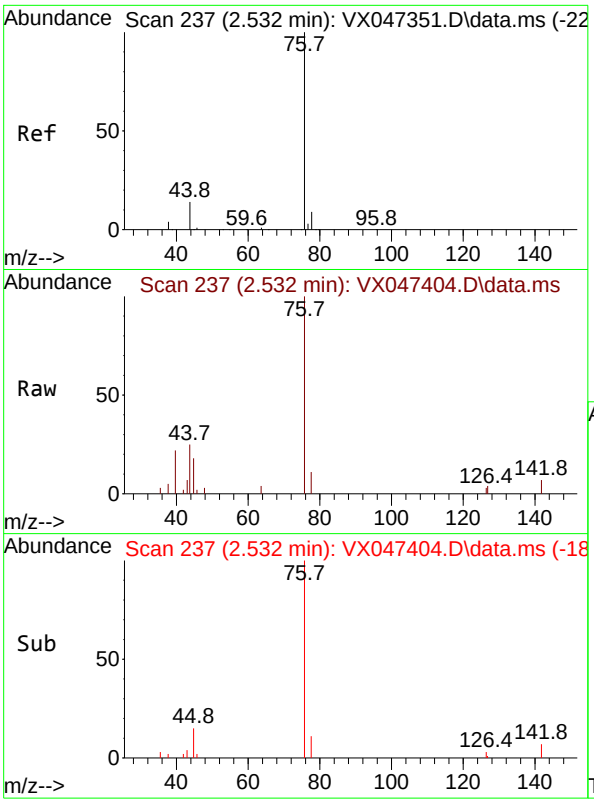


#16
Acetone
Concen: 4.358 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion: 43 Resp: 4402

Ion	Ratio	Lower	Upper
43	100		
58	34.6	24.8	37.2



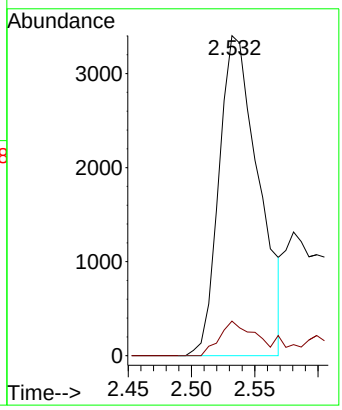


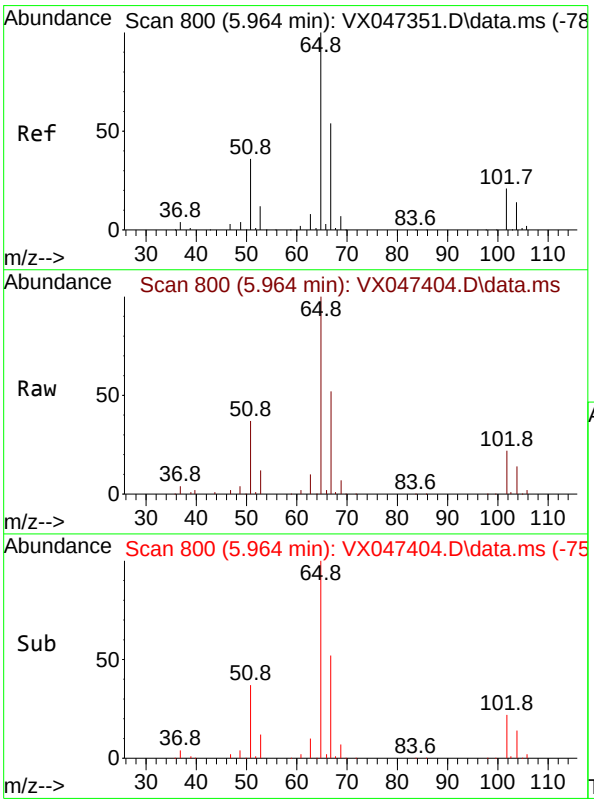
#17
Carbon Disulfide
Concen: 1.018 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

Tgt Ion: 76 Resp: 7427

Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.2	10.8

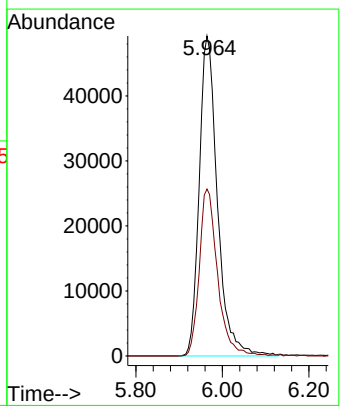


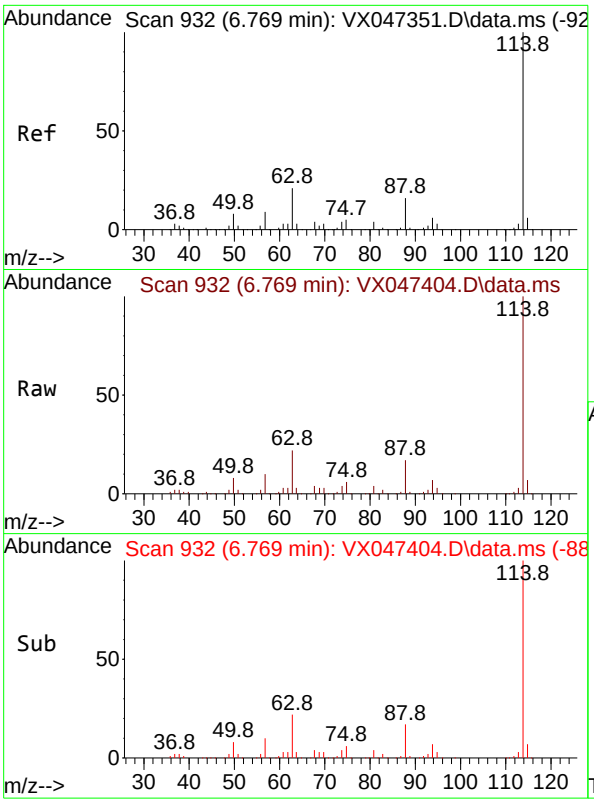


#33
1,2-Dichloroethane-d4
Concen: 53.466 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion: 65 Resp: 143693

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.0



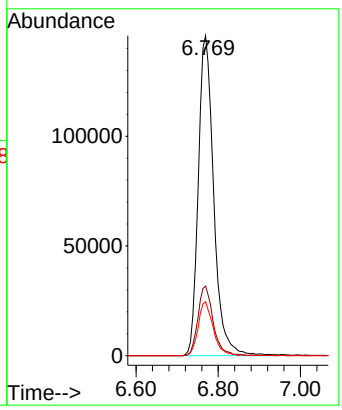


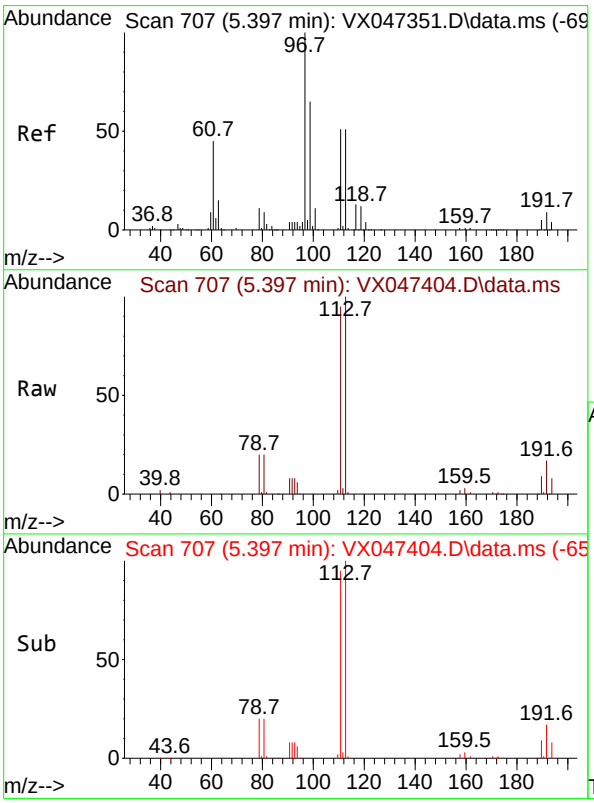
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

Tgt Ion:114 Resp: 380026

Ion	Ratio	Lower	Upper
114	100		
63	24.9	0.0	42.4
88	16.8	0.0	33.0

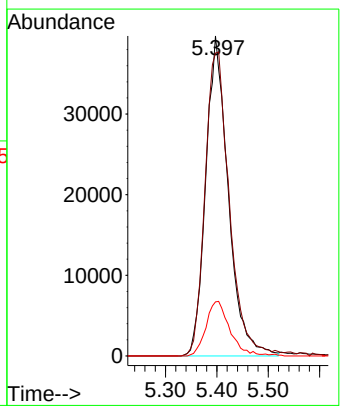


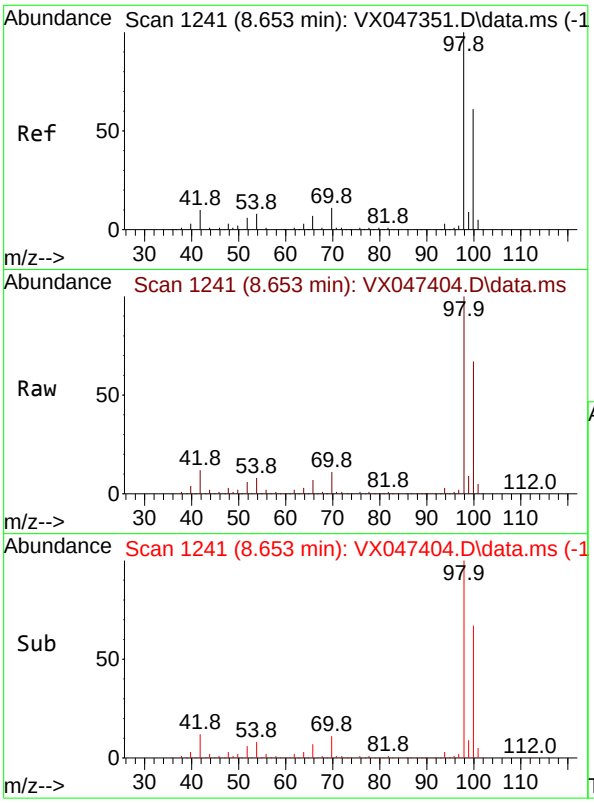


#35
Dibromofluoromethane
Concen: 48.965 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion:113 Resp: 120767

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.4	122.2
192	18.2	14.1	21.1



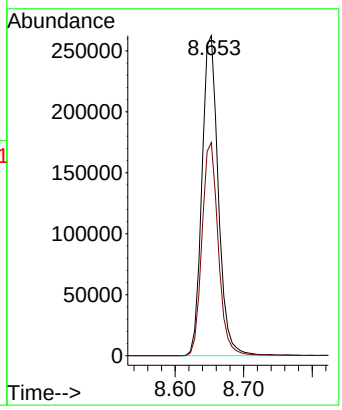


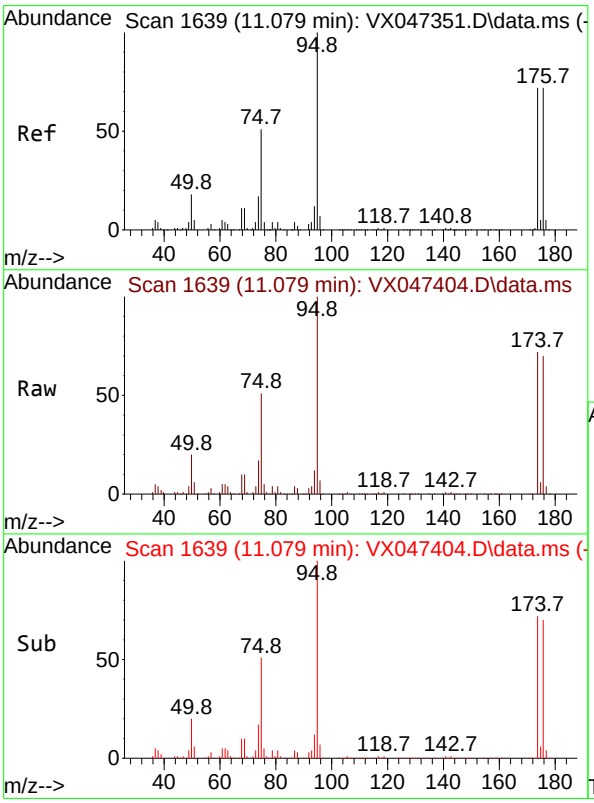
#50
Toluene-d8
Concen: 49.501 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

Tgt Ion: 98 Resp: 436381

Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.9	80.9

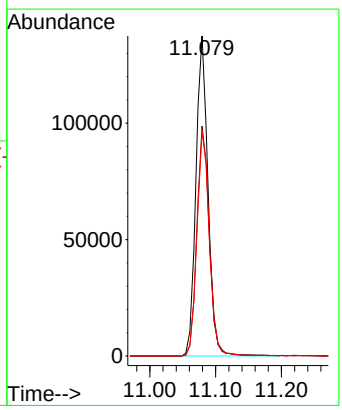


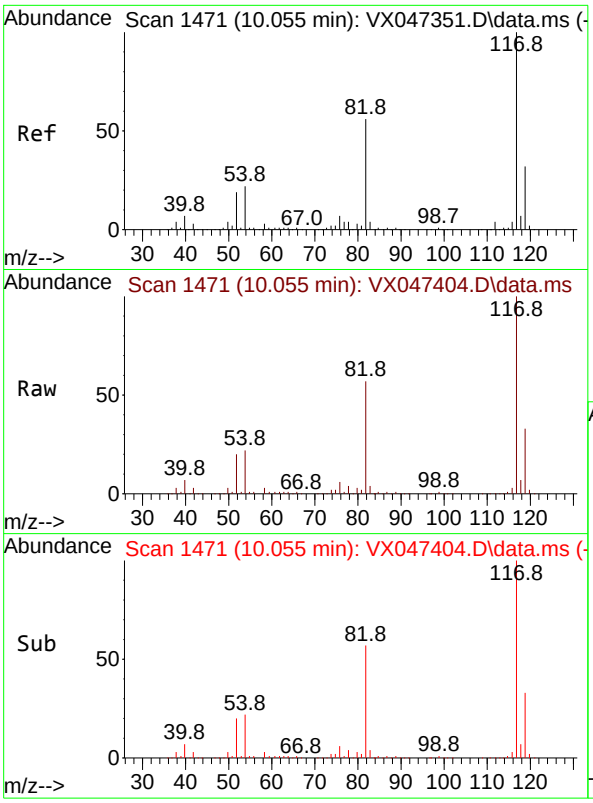


#62
4-Bromofluorobenzene
Concen: 53.680 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion: 95 Resp: 174627

Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	148.0
176	71.4	0.0	145.4



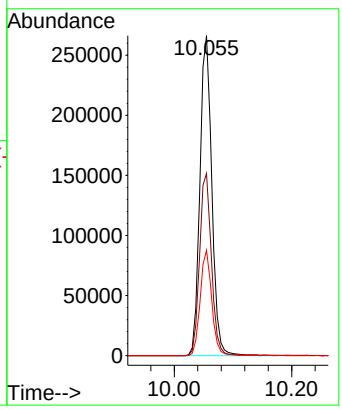


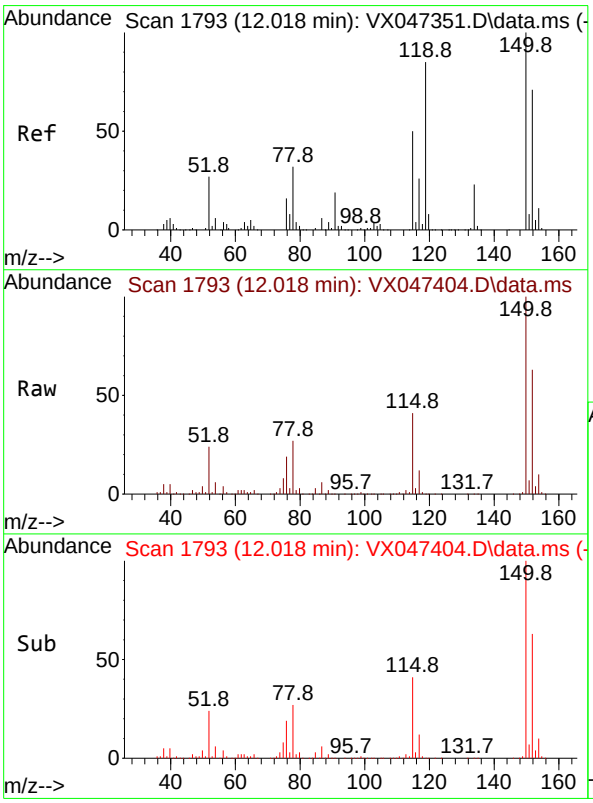
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

Tgt Ion:117 Resp: 374792

Ion	Ratio	Lower	Upper
117	100		
82	57.0	45.0	67.4
119	32.9	25.8	38.8

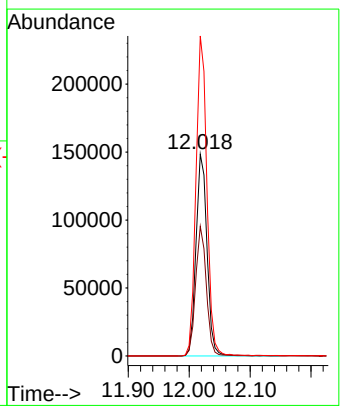




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion:152 Resp: 186642

Ion	Ratio	Lower	Upper
152	100		
115	62.4	44.6	133.8
150	157.4	0.0	349.8



Sample Results: **VX047404.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047404.D
Acq On : 19 Aug 2025 12:16
Operator : JC/MD
Sample : Q2815-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047404.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.282	25	32	76	rBV	389670	1599657	100.00%	19.366%
2	5.397	696	707	724	rBV2	125809	397740	24.86%	4.815%
3	5.562	724	734	755	rVB	188071	586304	36.65%	7.098%
4	5.964	790	800	824	rBV	136859	397924	24.88%	4.817%
5	6.769	922	932	950	rBV	347529	900798	56.31%	10.905%
6	8.653	1234	1241	1255	rBV	693482	1173618	73.37%	14.208%
7	10.055	1465	1471	1486	rBV	824289	1168862	73.07%	14.150%
8	11.079	1634	1639	1652	rBV	645687	833521	52.11%	10.091%
9	12.018	1788	1793	1807	rVB	934475	1163626	72.74%	14.087%
10	12.335	1839	1845	1855	rBV3	13393	19782	1.24%	0.239%
11	13.719	2068	2072	2076	rBV3	14807	18487	1.16%	0.224%

Sum of corrected areas: 8260319

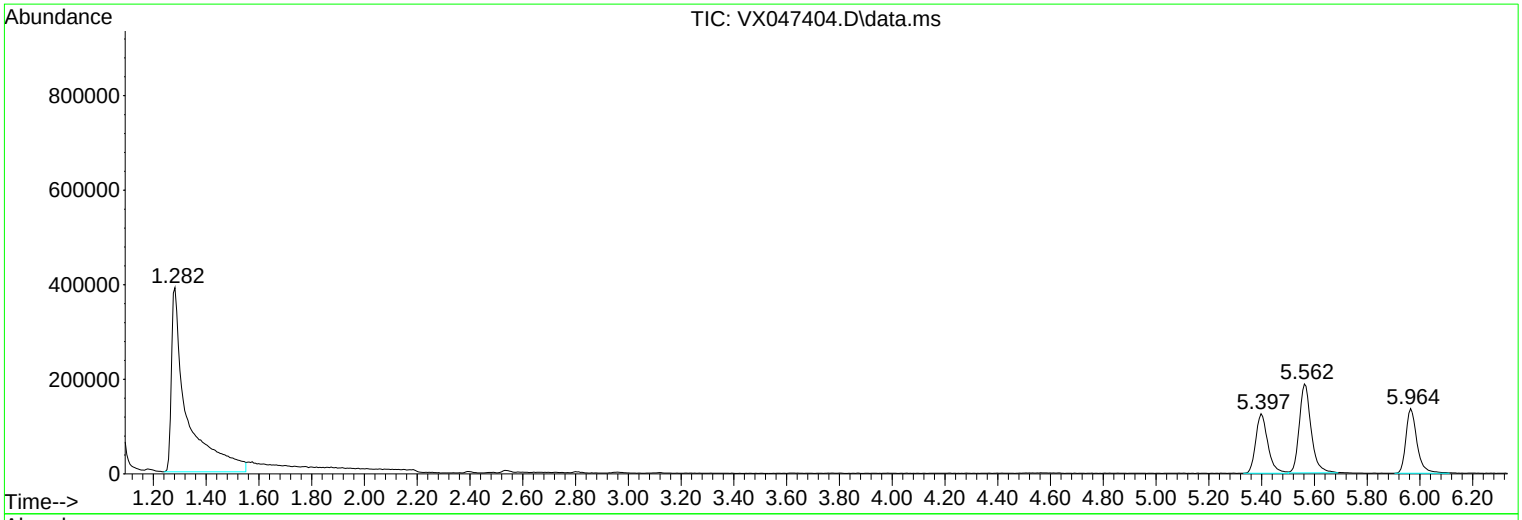
Sample Results: **VX047404.D**

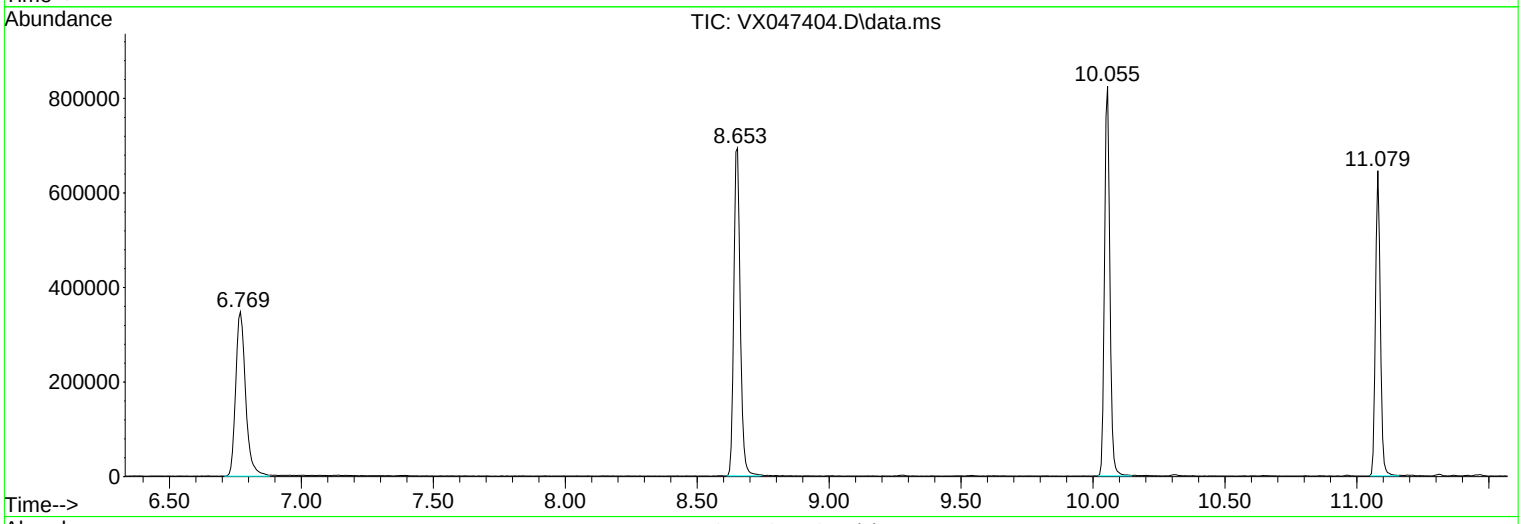
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047404.D
Acq On : 19 Aug 2025 12:16
Operator : JC/MD
Sample : Q2815-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

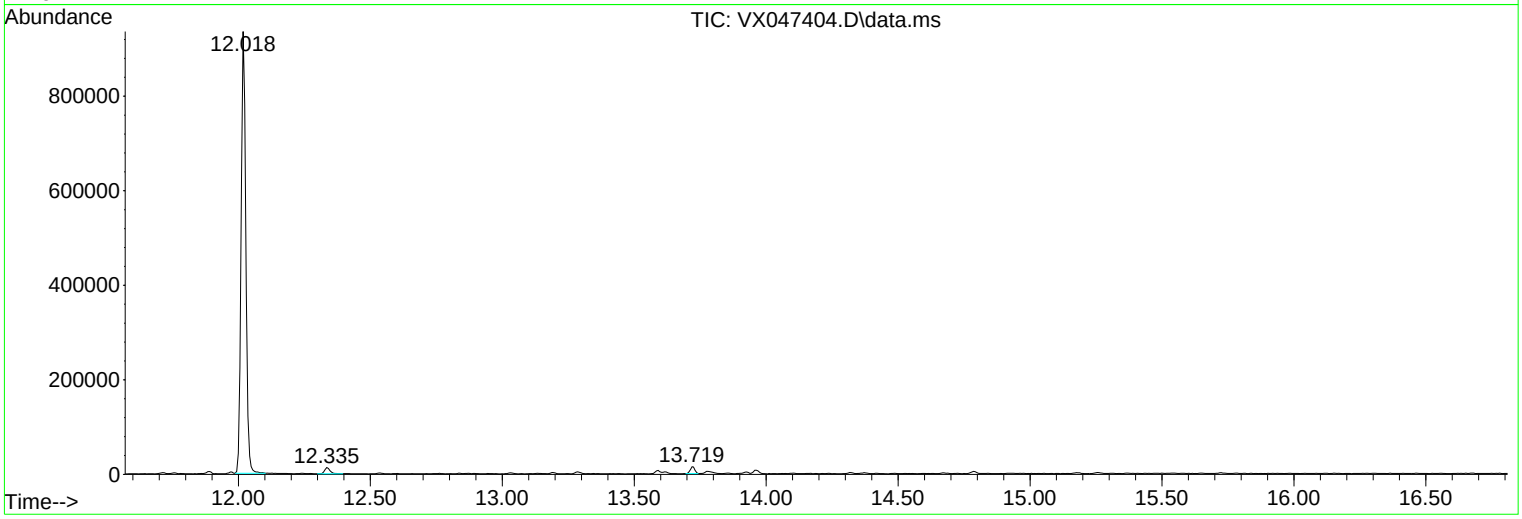
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047404.D
Acq On : 19 Aug 2025 12:16
Operator : JC/MD
Sample : Q2815-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

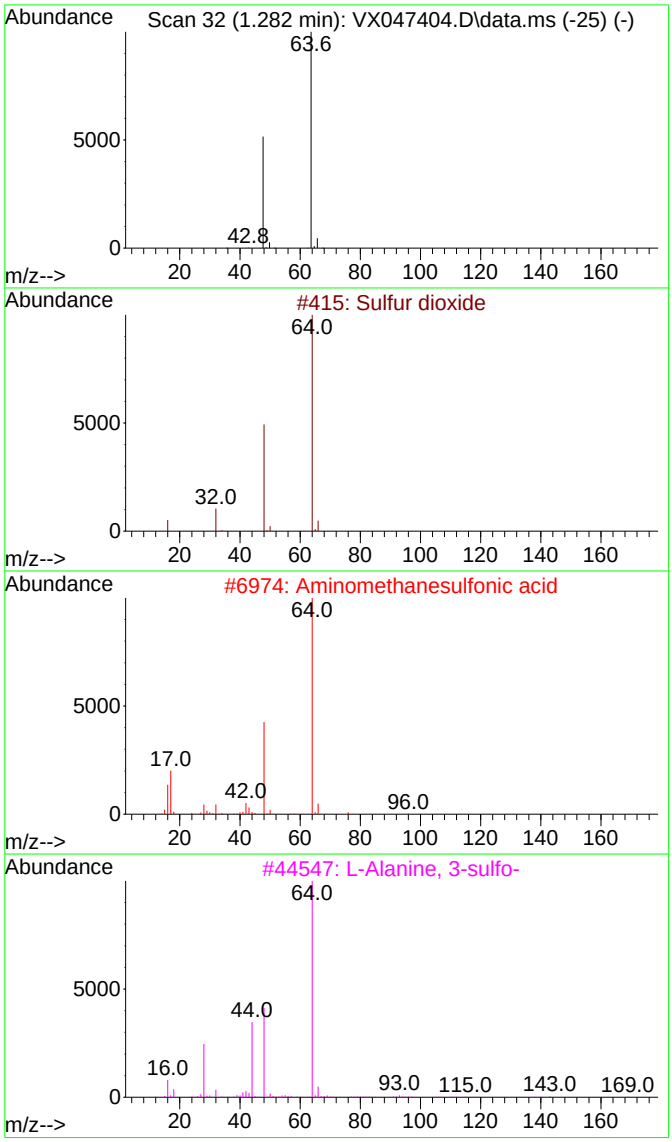
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

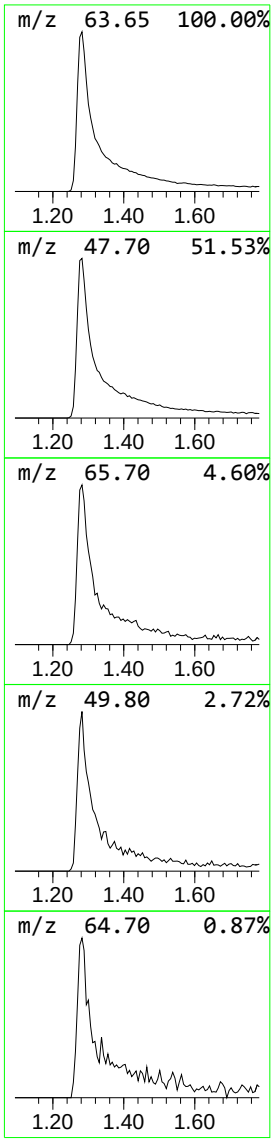
****

Peak Number 1 Sulfur dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.282	136.42 ug/l	1599660	Pentafluorobenzene	5.562

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	83
2	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	74
3	L-Alanine, 3-sulfo-	169	C3H7NO5S	000498-40-8	9
4	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	4
5	Ethyl Chloride	64	C2H5Cl	000075-00-3	3





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047404.D
Acq On : 19 Aug 2025 12:16
Operator : JC/MD
Sample : Q2815-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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
Sulfur dioxide	1.282	136.4	ug/l	1599660	1	5.562	586304	50.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-22M-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-12	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
VX047406.D	1	08/19/25 12:59	VX081925

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	5.70		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	1.20		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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-22M-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-12	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
VX047406.D	1	08/19/25 12:59	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.2		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.9		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.3		85 - 114		111%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	192000	5.562				
540-36-3	1,4-Difluorobenzene	379000	6.769				
3114-55-4	Chlorobenzene-d5	378000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	187000	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-22M-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-12	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
VX047406.D	1	08/19/25 12:59	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
007446-09-5	Sulfur dioxide	11.6	J			1.27	ug/L

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\VX081925\
Data File : VX047406.D
Acq On : 19 Aug 2025 12:59
Operator : JC/MD
Sample : Q2815-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

Quant Time: Aug 20 01:25:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

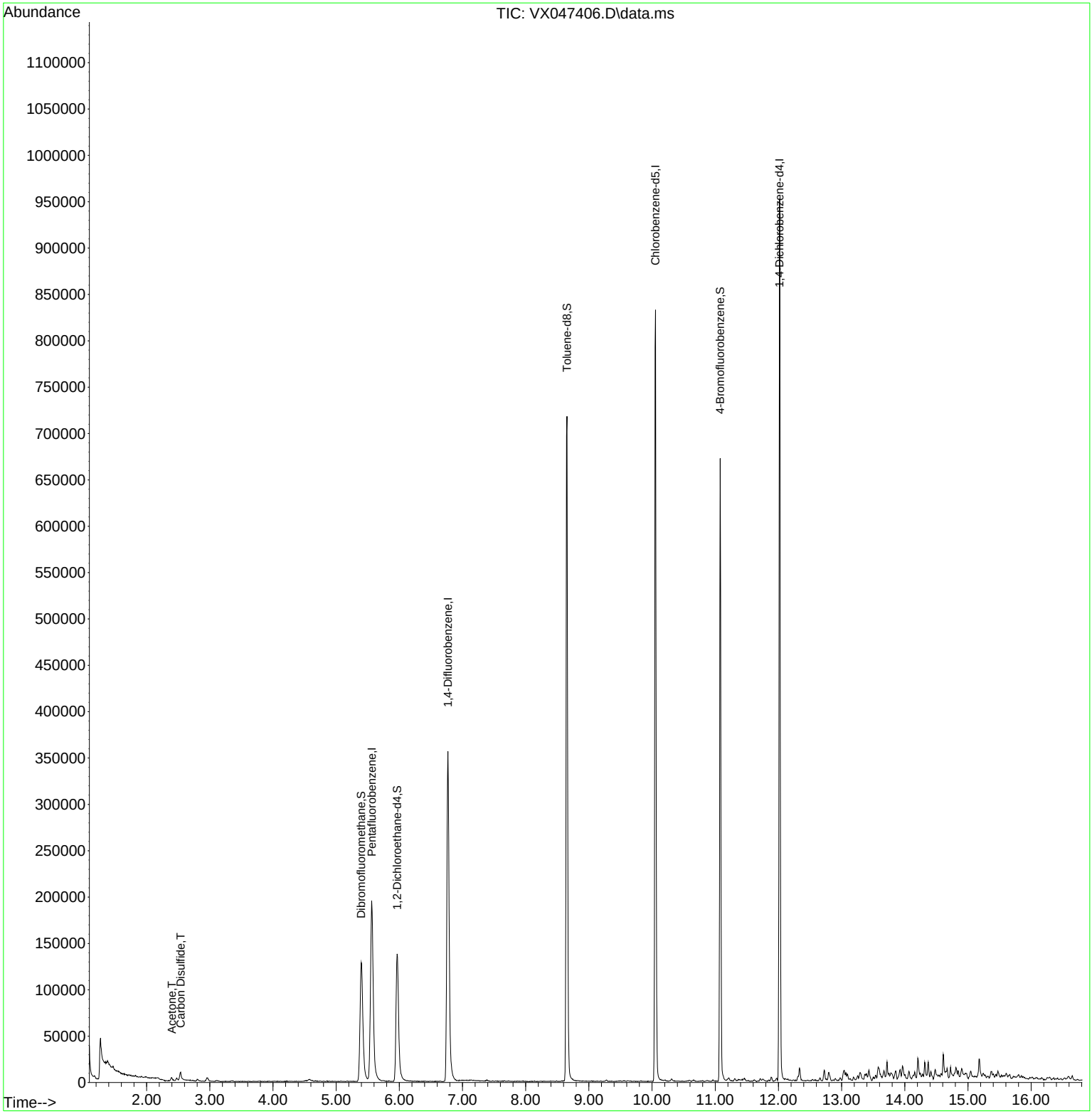
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	192217	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	378823	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	378260	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	187039	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	148535	55.215	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 110.420%			
35) Dibromofluoromethane	5.397	113	125348	50.984	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.960%			
50) Toluene-d8	8.653	98	438277	49.874	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.740%			
62) 4-Bromofluorobenzene	11.079	95	179486	55.349	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.700%			
Target Compounds						Qvalue
16) Acetone	2.398	43	5746	5.683	ug/l #	87
17) Carbon Disulfide	2.538	76	9106	1.247	ug/l #	93

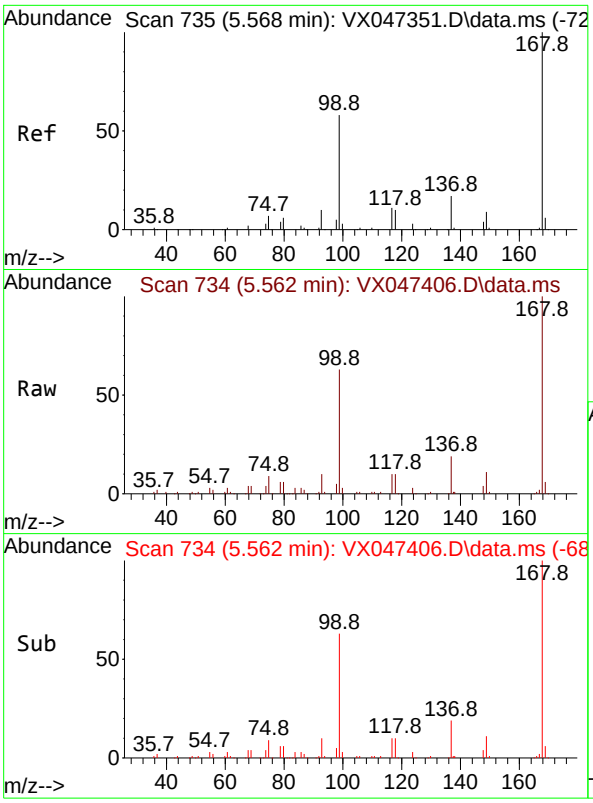
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047406.D
Acq On : 19 Aug 2025 12:59
Operator : JC/MD
Sample : Q2815-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

Quant Time: Aug 20 01:25:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



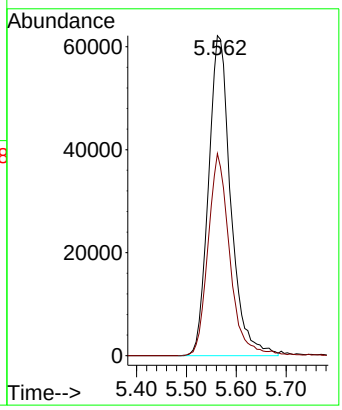


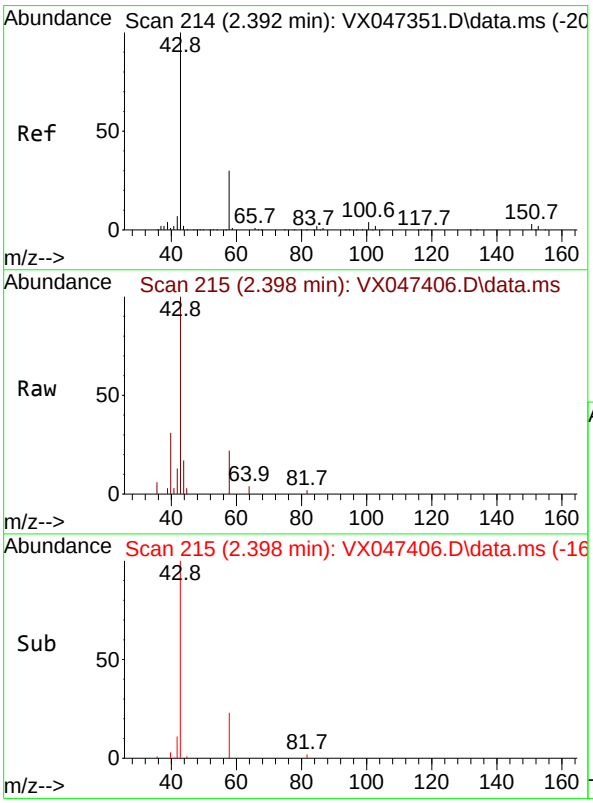
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

Tgt Ion:168 Resp: 192217

Ion	Ratio	Lower	Upper
168	100		
99	63.1	47.9	71.9

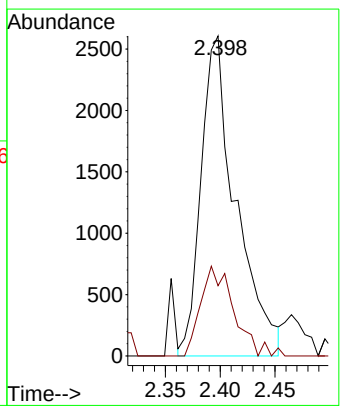


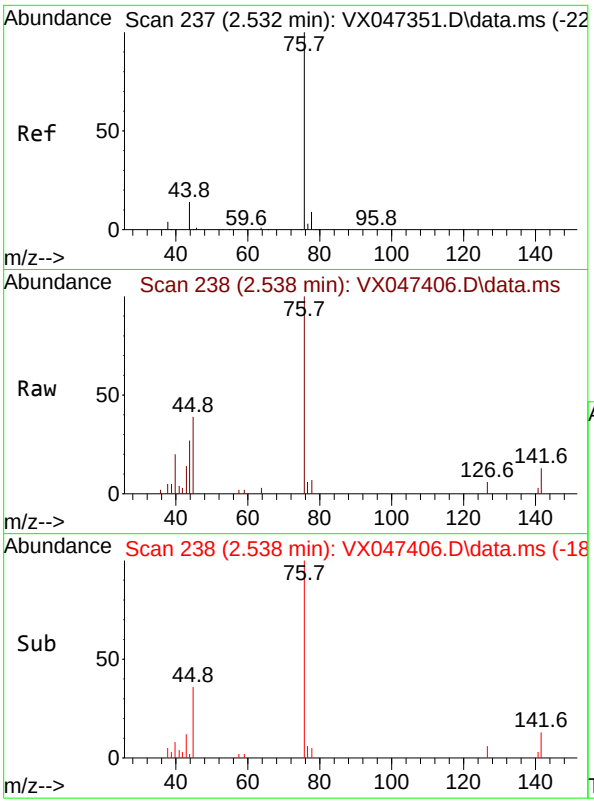


#16
Acetone
Concen: 5.683 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion: 43 Resp: 5746

Ion	Ratio	Lower	Upper
43	100		
58	24.1	24.8	37.2#



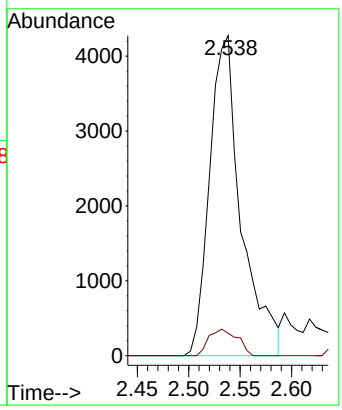


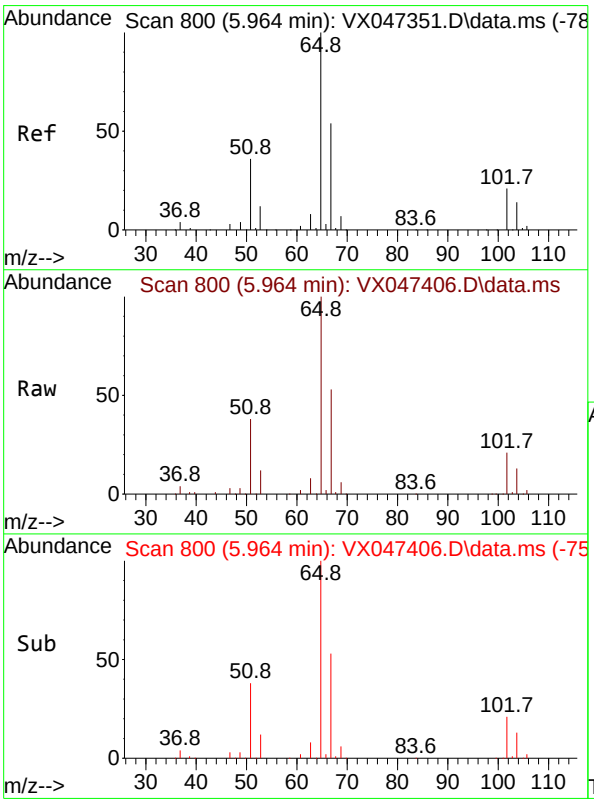
#17
Carbon Disulfide
Concen: 1.247 ug/l
RT: 2.538 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

Tgt Ion: 76 Resp: 9106

Ion	Ratio	Lower	Upper
76	100		
78	6.6	7.2	10.8#

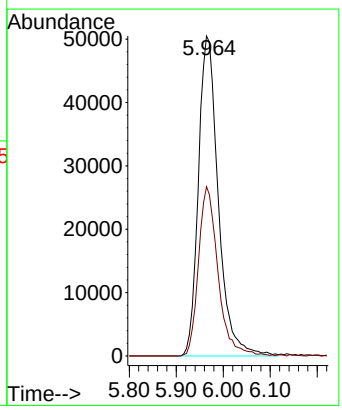


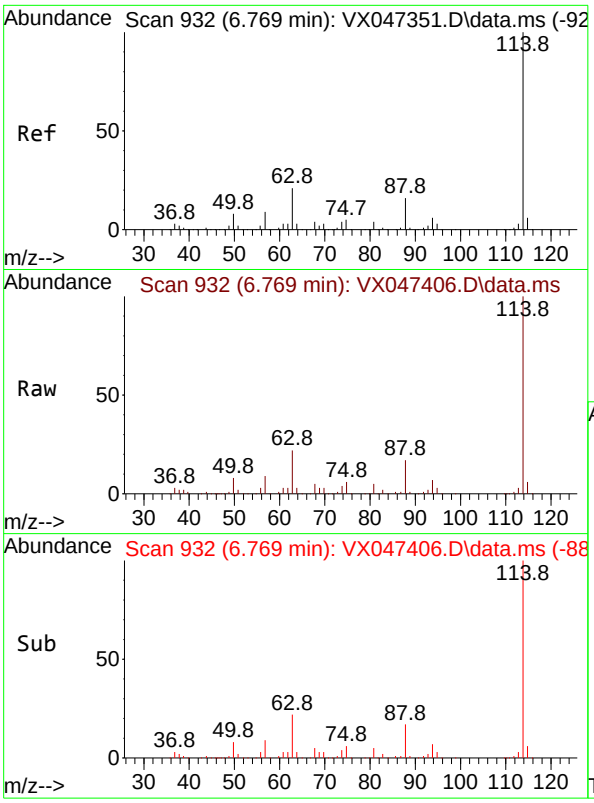


#33
1,2-Dichloroethane-d4
Concen: 55.215 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion: 65 Resp: 148535

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	106.0



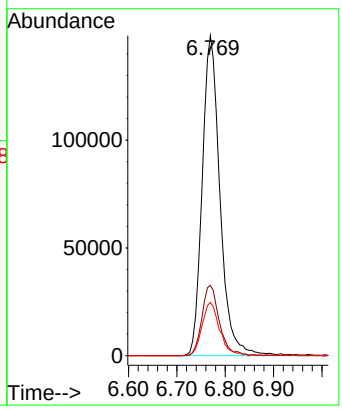


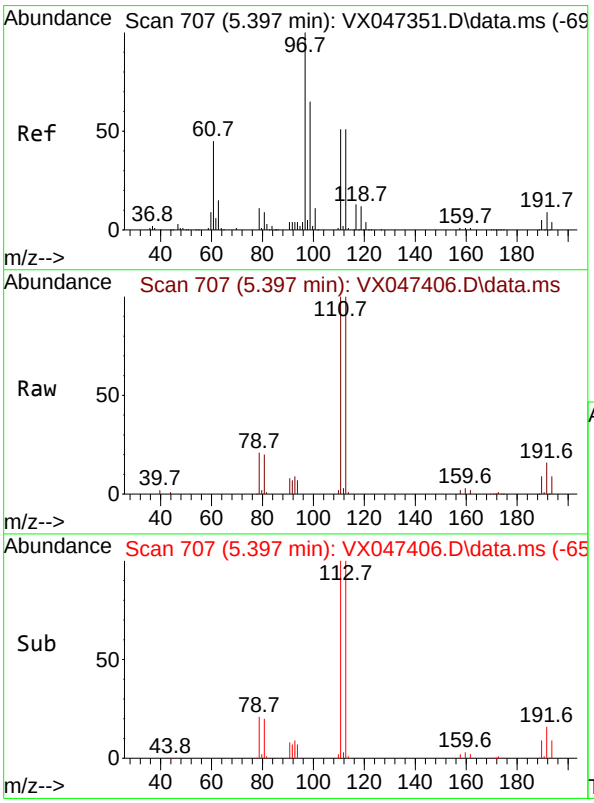
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

Tgt Ion:114 Resp: 378823

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	42.4
88	16.7	0.0	33.0

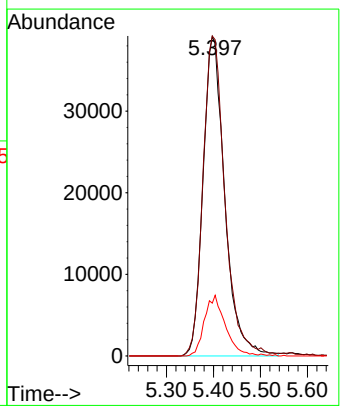


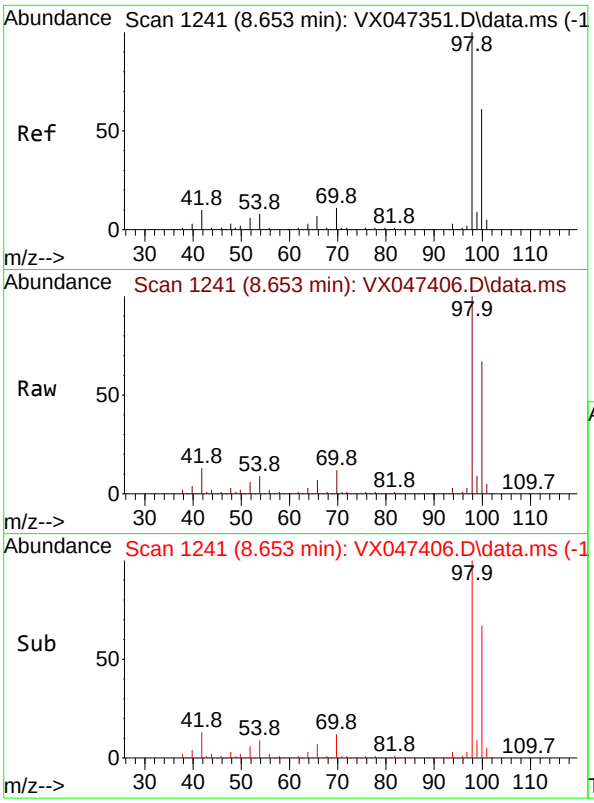


#35
Dibromofluoromethane
Concen: 50.984 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion:113 Resp: 125348

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.4	122.2
192	18.2	14.1	21.1



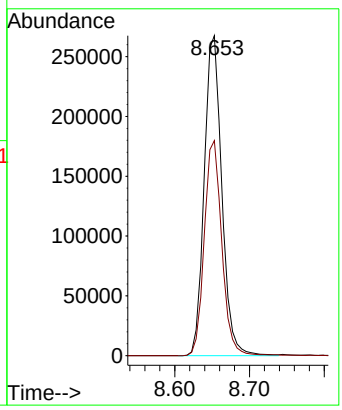


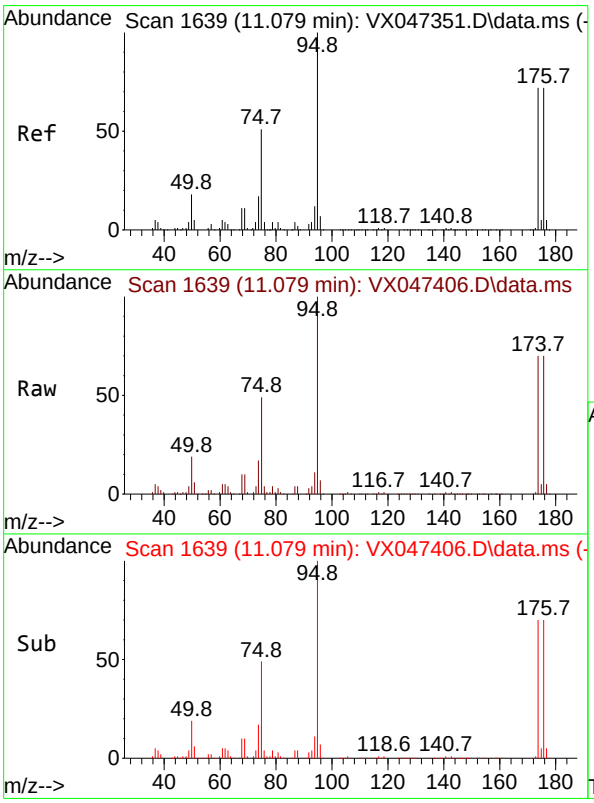
#50
Toluene-d8
Concen: 49.874 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

Tgt Ion: 98 Resp: 438277

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.9	80.9

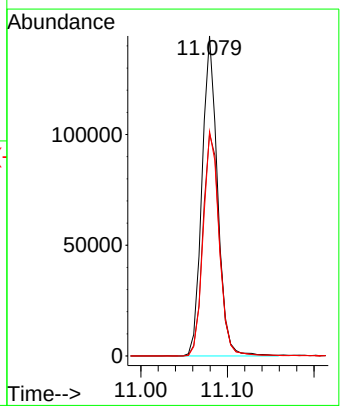


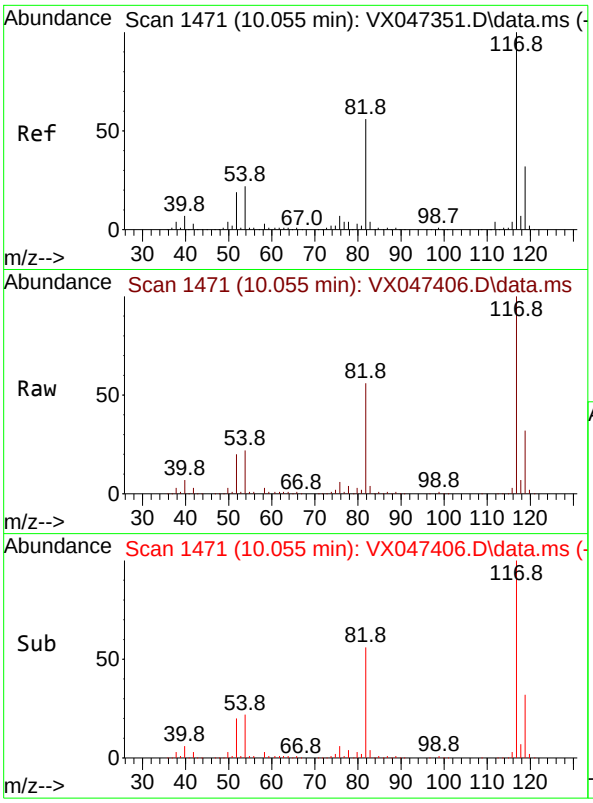


#62
4-Bromofluorobenzene
Concen: 55.349 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion: 95 Resp: 179486

Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	148.0
176	72.2	0.0	145.4



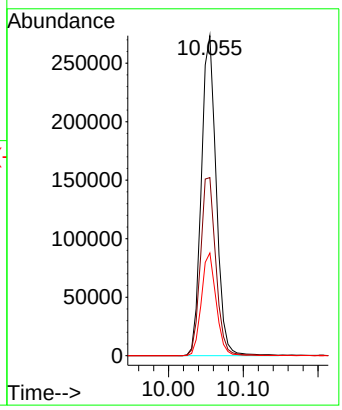


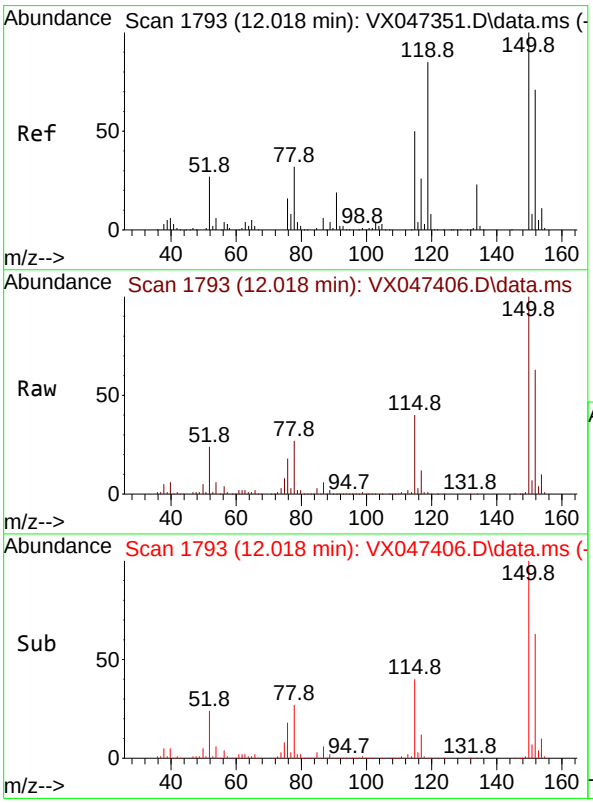
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

Tgt Ion:117 Resp: 378260

Ion	Ratio	Lower	Upper
117	100		
82	55.7	45.0	67.4
119	32.1	25.8	38.8

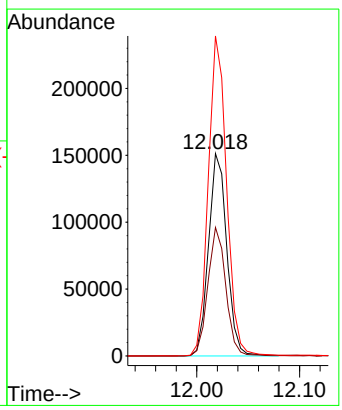




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion:152 Resp: 187039

Ion	Ratio	Lower	Upper
152	100		
115	62.5	44.6	133.8
150	158.1	0.0	349.8



Sample Results: **VX047406.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047406.D
Acq On : 19 Aug 2025 12:59
Operator : JC/MD
Sample : Q2815-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047406.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.270	25	30	41	rBV	44050	139086	11.69%	1.883%
2	2.538	232	238	250	rVB2	8457	16955	1.43%	0.230%
3	5.397	696	707	723	rBV2	128065	409547	34.43%	5.545%
4	5.562	723	734	760	rVB	194531	597826	50.26%	8.094%
5	5.964	791	800	820	rBV	137411	402877	33.87%	5.454%
6	6.769	921	932	951	rBV	356026	905236	76.10%	12.255%
7	8.653	1234	1241	1260	rBV	716882	1189473	100.00%	16.103%
8	10.055	1465	1471	1483	rBV	831806	1180415	99.24%	15.981%
9	11.079	1634	1639	1654	rBV	671726	862103	72.48%	11.671%
10	12.018	1788	1793	1806	rBV	950876	1176552	98.91%	15.928%
11	12.335	1837	1845	1849	rBV8	13515	25607	2.15%	0.347%
12	12.725	1903	1909	1913	rBV2	11645	18916	1.59%	0.256%
13	12.799	1916	1921	1929	rVB5	9087	17912	1.51%	0.242%
14	13.042	1954	1961	1963	rBV5	10959	21475	1.81%	0.291%
15	13.292	1998	2002	2011	rVB6	7155	14427	1.21%	0.195%
16	13.433	2021	2025	2032	rVB3	11568	21523	1.81%	0.291%
17	13.579	2045	2049	2059	rBV7	11664	28553	2.40%	0.387%
18	13.719	2068	2072	2075	rVV4	16274	20031	1.68%	0.271%
19	13.780	2079	2082	2089	rVB6	6270	14566	1.22%	0.197%
20	13.859	2089	2095	2098	rVB6	8955	16050	1.35%	0.217%
21	13.926	2098	2106	2109	rBV5	10220	19998	1.68%	0.271%
22	13.963	2109	2112	2117	rBV5	11021	16717	1.41%	0.226%
23	14.067	2125	2129	2136	rVB5	8173	13384	1.13%	0.181%
24	14.207	2148	2152	2157	rBV5	21107	32354	2.72%	0.438%
25	14.317	2167	2170	2175	rBV3	15245	19320	1.62%	0.262%
26	14.371	2175	2179	2183	rVB2	15940	20630	1.73%	0.279%
27	14.414	2183	2186	2192	rVB7	8674	14686	1.23%	0.199%
28	14.481	2192	2197	2201	rBV4	10563	20096	1.69%	0.272%
29	14.609	2215	2218	2223	rBV3	22396	31100	2.61%	0.421%
30	14.725	2233	2237	2244	rBV6	10888	17183	1.44%	0.233%
31	14.810	2244	2251	2255	rBV6	9099	17126	1.44%	0.232%
32	14.902	2261	2266	2273	rBV6	8690	18221	1.53%	0.247%
33	15.042	2283	2289	2293	rBV7	8164	16412	1.38%	0.222%
34	15.176	2305	2311	2318	rBV3	19710	35902	3.02%	0.486%
35	15.365	2337	2342	2346	rBV8	7282	14202	1.19%	0.192%

Sample Results: **VX047406.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047406.D
Acq On : 19 Aug 2025 12:59
Operator : JC/MD
Sample : Q2815-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

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\82X081525W.M
Title : SW846 8260

Sum of corrected areas: 7386461

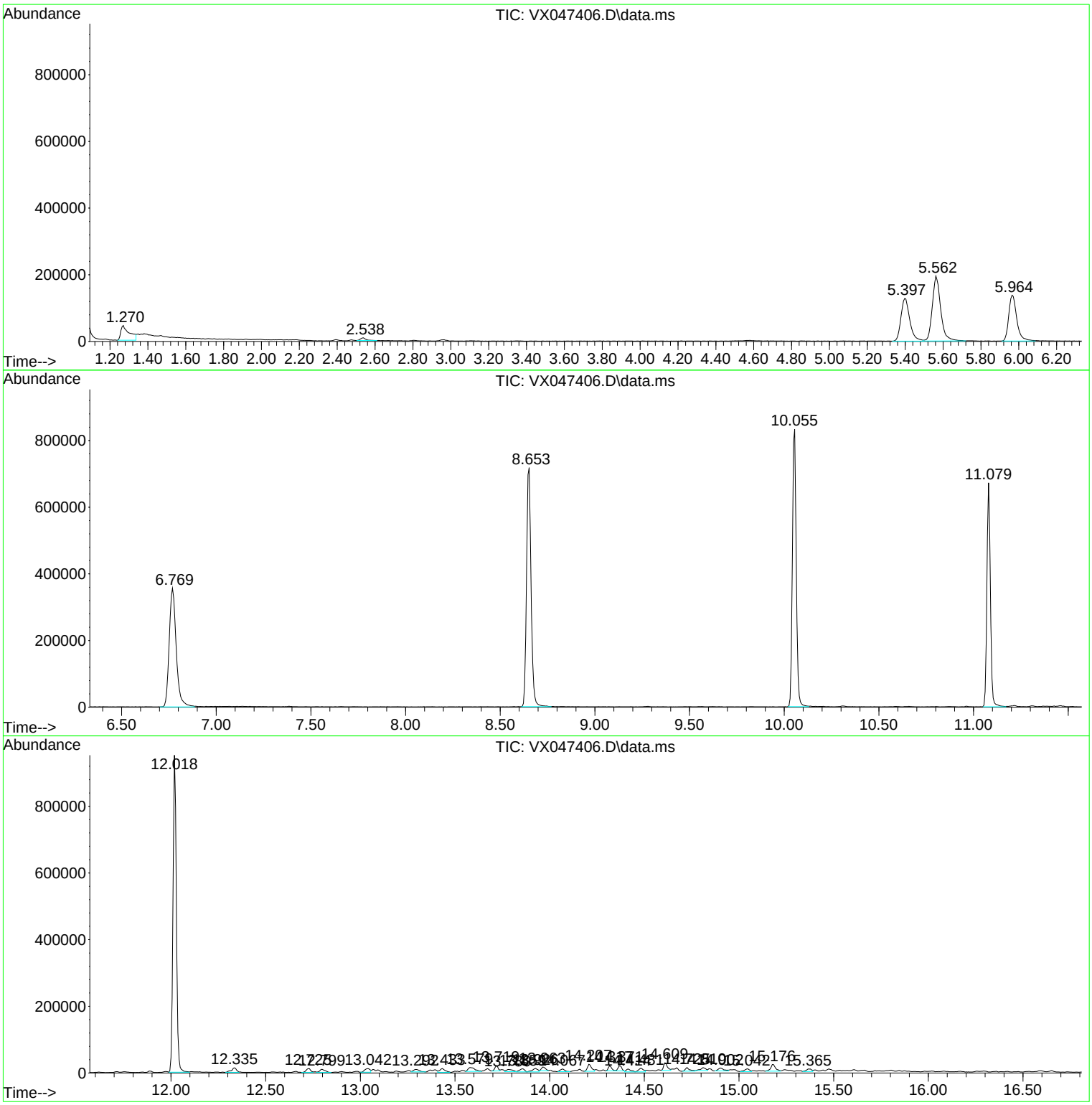
Sample Results: **VX047406.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047406.D
Acq On : 19 Aug 2025 12:59
Operator : JC/MD
Sample : Q2815-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047406.D
Acq On : 19 Aug 2025 12:59
Operator : JC/MD
Sample : Q2815-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

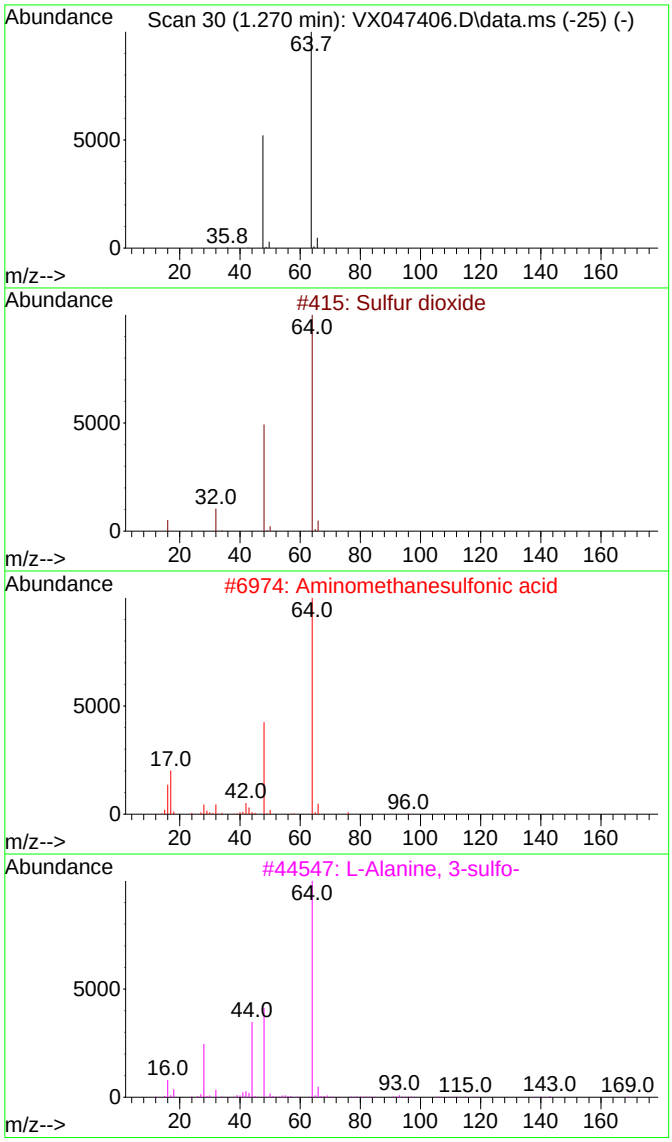
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

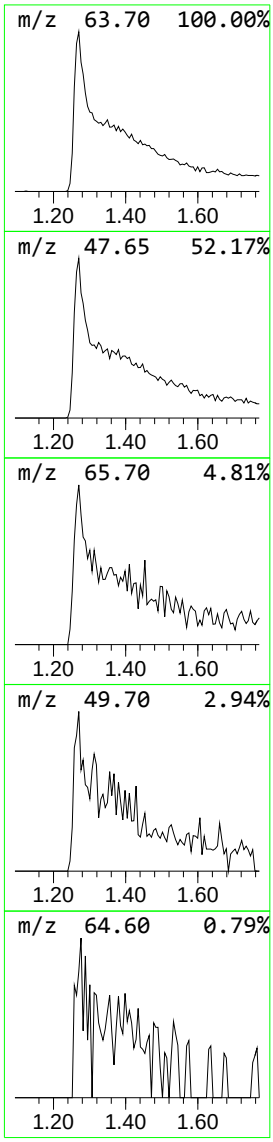
****

Peak Number 1 Sulfur dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.270	11.63 ug/l	139086	Pentafluorobenzene	5.562

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	90
2	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	64
3	L-Alanine, 3-sulfo-	169	C3H7NO5S	000498-40-8	9
4	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	4
5	Ethyl Chloride	64	C2H5Cl	000075-00-3	3





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047406.D
Acq On : 19 Aug 2025 12:59
Operator : JC/MD
Sample : Q2815-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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
Sulfur dioxide	1.270	11.6	ug/l	139086	1	5.562	597826	50.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-22M-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-13	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
VX047388.D	1	08/18/25 17:22	VX081825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	4.00	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-22M-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-13	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
VX047388.D	1	08/18/25 17:22	VX081825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.7		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.1		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.3		85 - 114		109%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	277000	5.568				
540-36-3	1,4-Difluorobenzene	541000	6.769				
3114-55-4	Chlorobenzene-d5	526000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	264000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-22M-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-13	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
VX047388.D	1	08/18/25 17:22	VX081825

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\VX081825\
Data File : VX047388.D
Acq On : 18 Aug 2025 17:22
Operator : JC/MD
Sample : Q2815-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-E

Quant Time: Aug 19 01:46:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

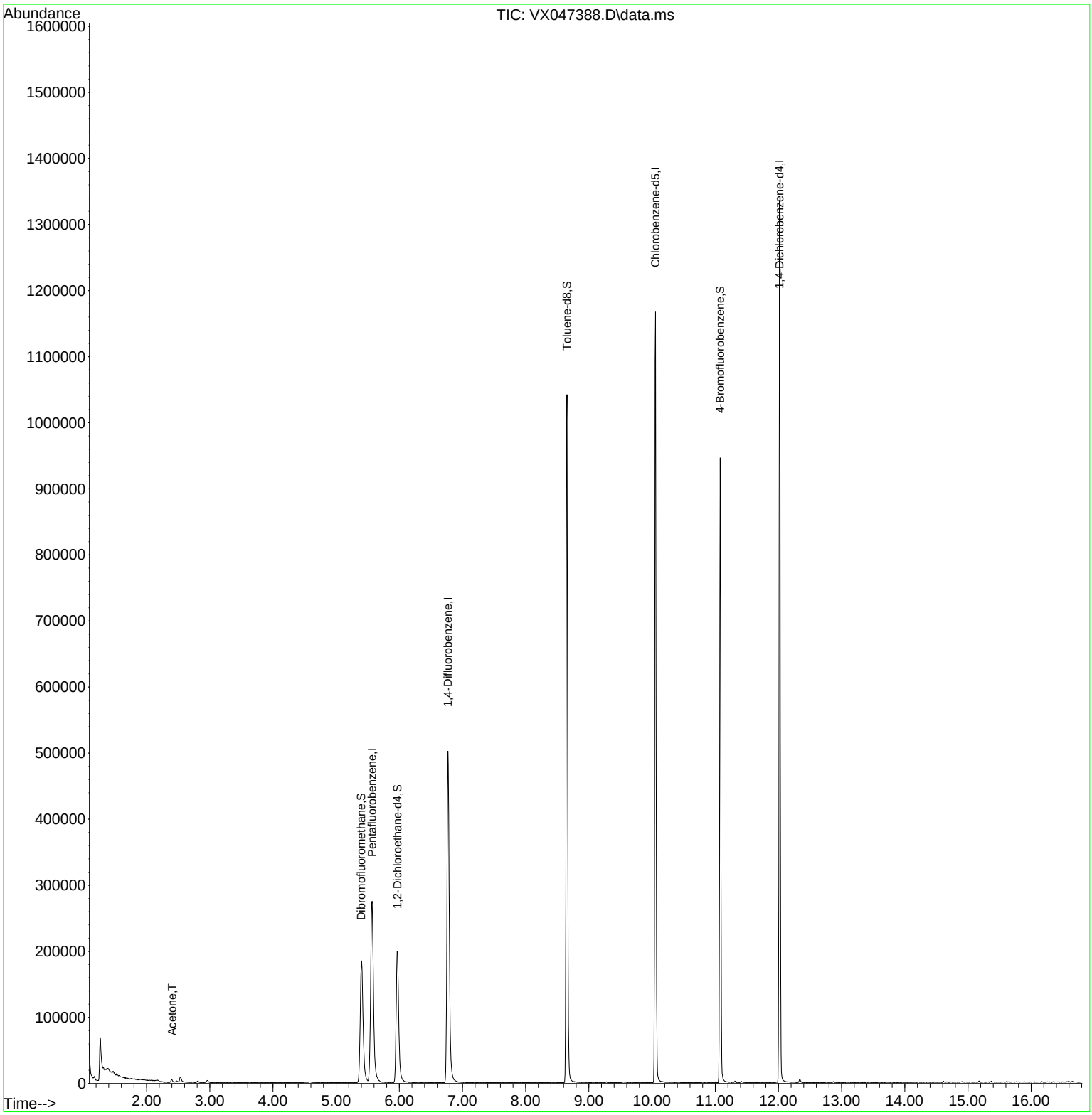
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	277386	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	540916	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	526432	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	264053	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	208313	53.660	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.320%			
35) Dibromofluoromethane	5.397	113	177109	50.450	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.900%			
50) Toluene-d8	8.653	98	628803	50.113	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.220%			
62) 4-Bromofluorobenzene	11.079	95	251447	54.304	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.600%			
Target Compounds						Qvalue
16) Acetone	2.404	43	5882	4.031	ug/l	99

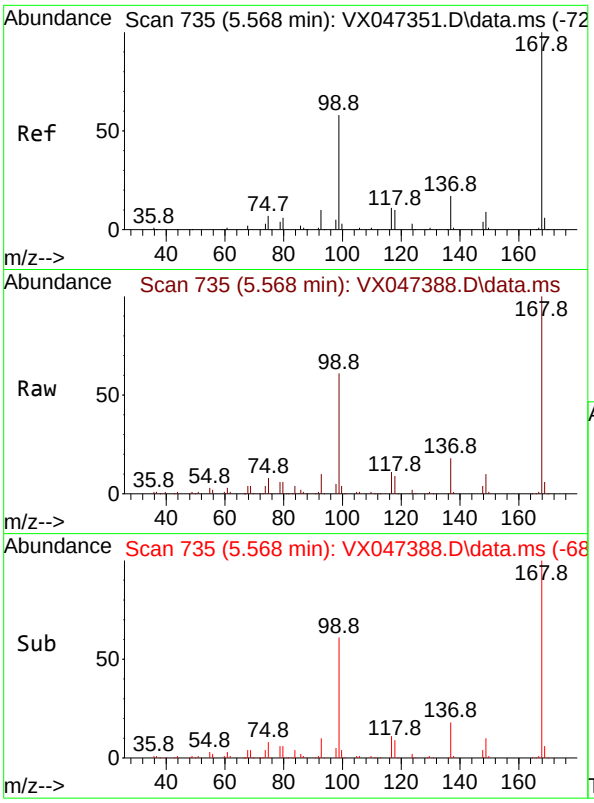
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047388.D
Acq On : 18 Aug 2025 17:22
Operator : JC/MD
Sample : Q2815-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-E

Quant Time: Aug 19 01:46:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



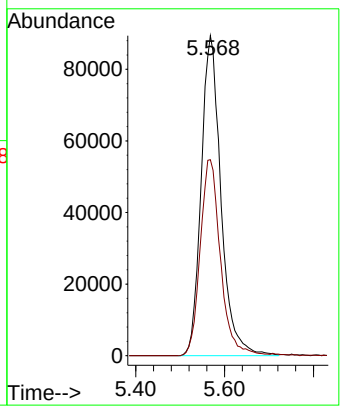


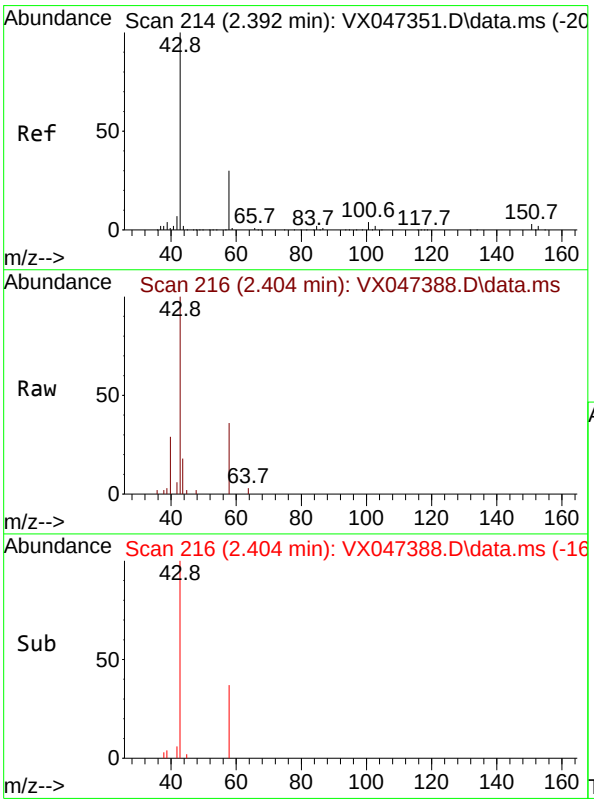
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047388.D
Acq: 18 Aug 2025 17:22

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-E

Tgt Ion:168 Resp: 277386

Ion	Ratio	Lower	Upper
168	100		
99	61.2	47.9	71.9

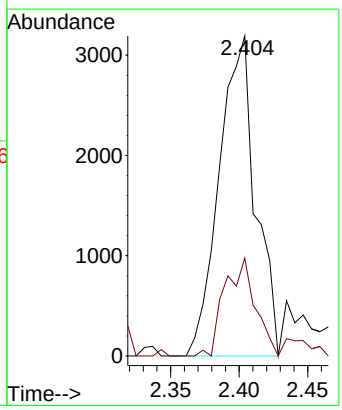


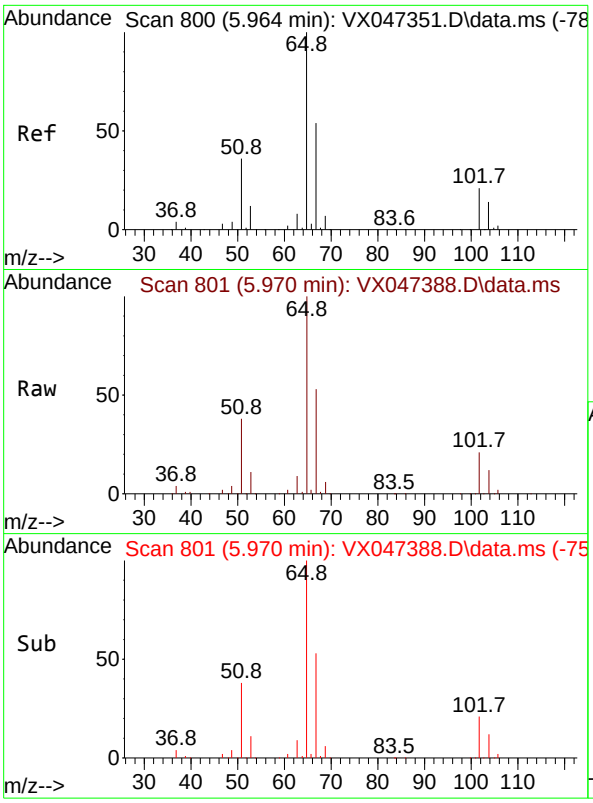


#16
Acetone
Concen: 4.031 ug/l
RT: 2.404 min Scan# 216
Delta R.T. 0.012 min
Lab File: VX047388.D
Acq: 18 Aug 2025 17:22

Tgt Ion: 43 Resp: 5882

Ion	Ratio	Lower	Upper
43	100		
58	30.6	24.8	37.2



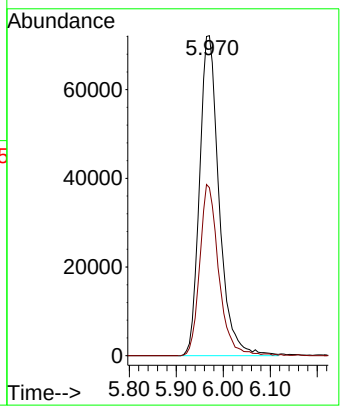


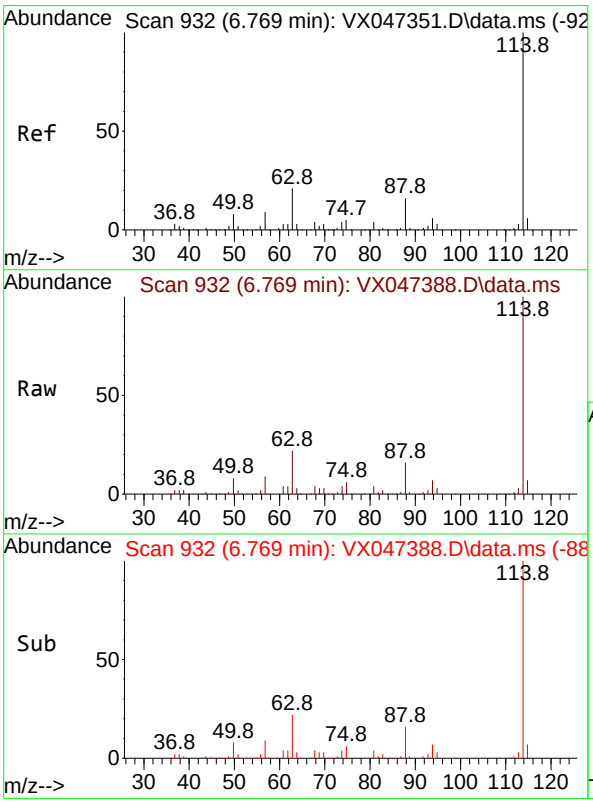
#33
1,2-Dichloroethane-d4
Concen: 53.660 ug/l
RT: 5.970 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047388.D
Acq: 18 Aug 2025 17:22

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-E

Tgt Ion: 65 Resp: 208313

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	106.0

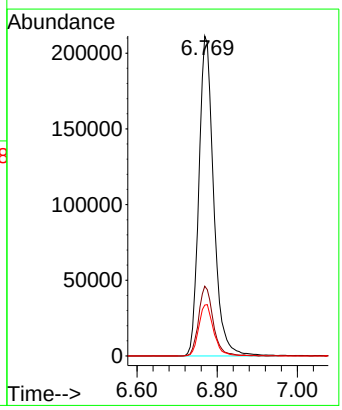


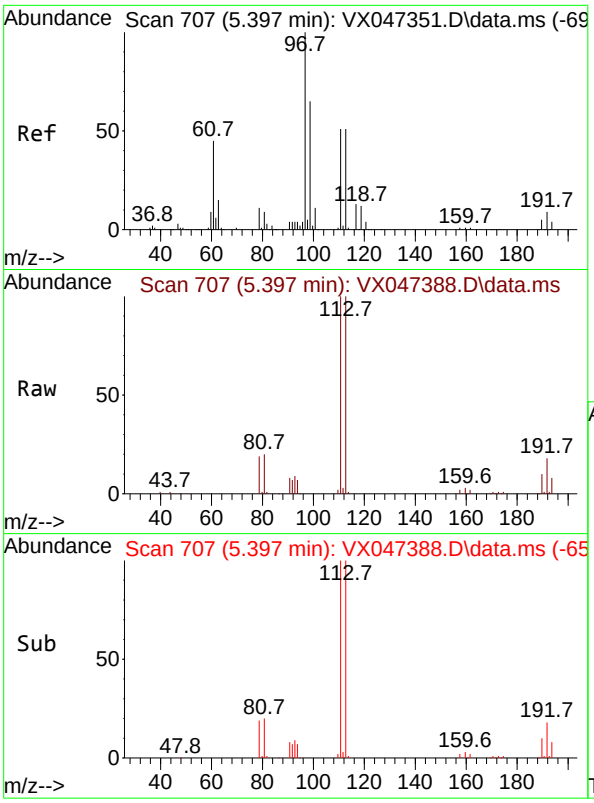


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047388.D
Acq: 18 Aug 2025 17:22

Tgt Ion:114 Resp: 540916

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	42.4
88	15.9	0.0	33.0



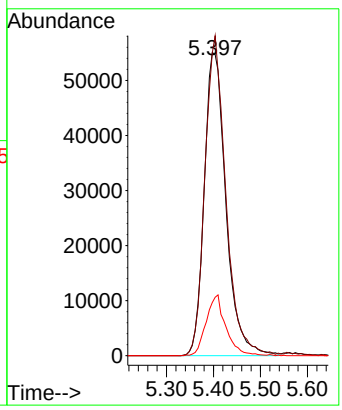


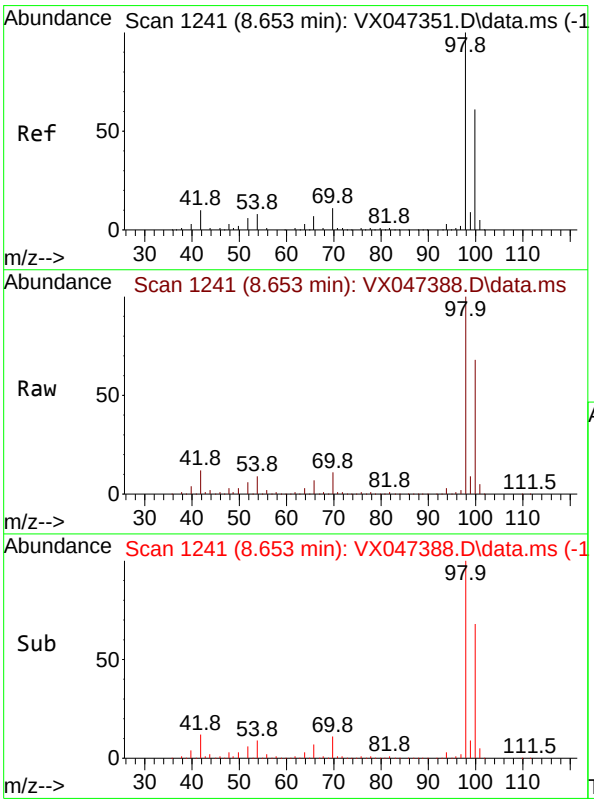
#35
Dibromofluoromethane
Concen: 50.450 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047388.D
Acq: 18 Aug 2025 17:22

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-E

Tgt Ion:113 Resp: 177109

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.4	122.2
192	18.1	14.1	21.1

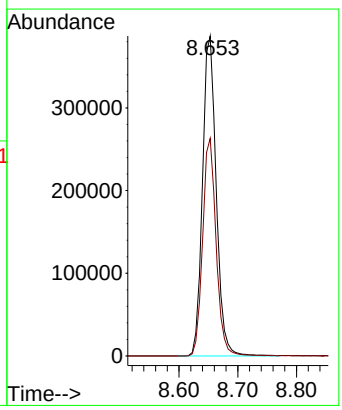


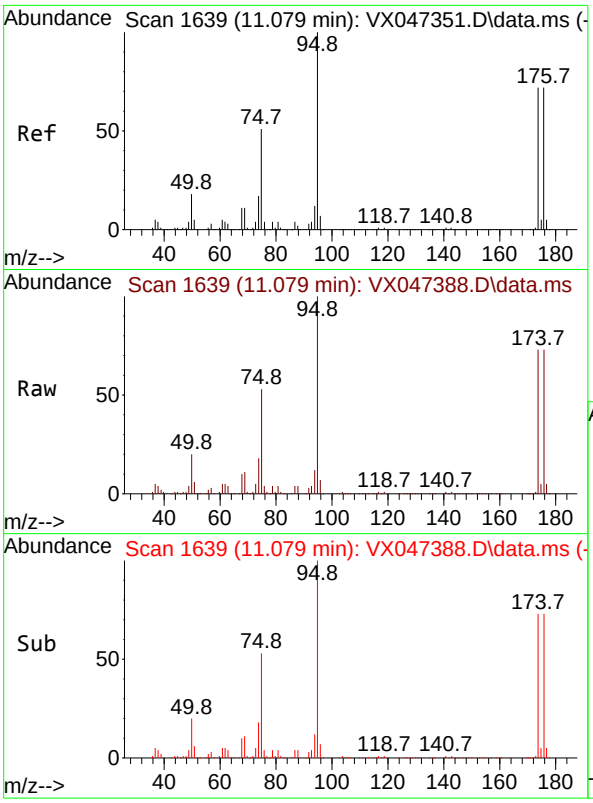


#50
Toluene-d8
Concen: 50.113 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047388.D
Acq: 18 Aug 2025 17:22

Tgt Ion: 98 Resp: 628803

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.9	80.9



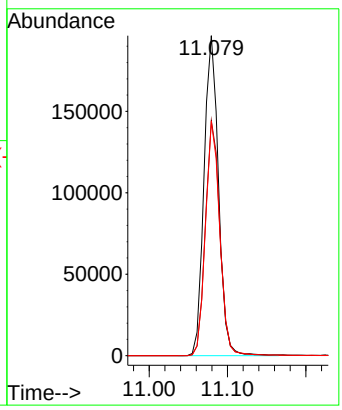


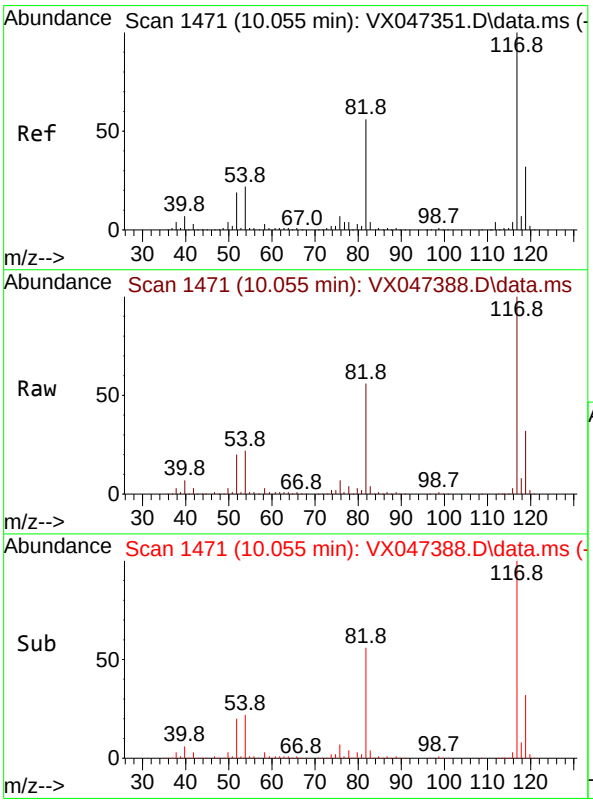
#62
4-Bromofluorobenzene
Concen: 54.304 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047388.D
Acq: 18 Aug 2025 17:22

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-E

Tgt Ion: 95 Resp: 251447

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	148.0
176	72.6	0.0	145.4

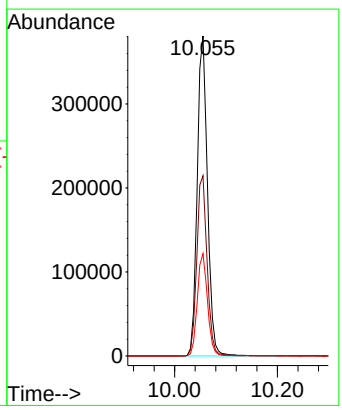


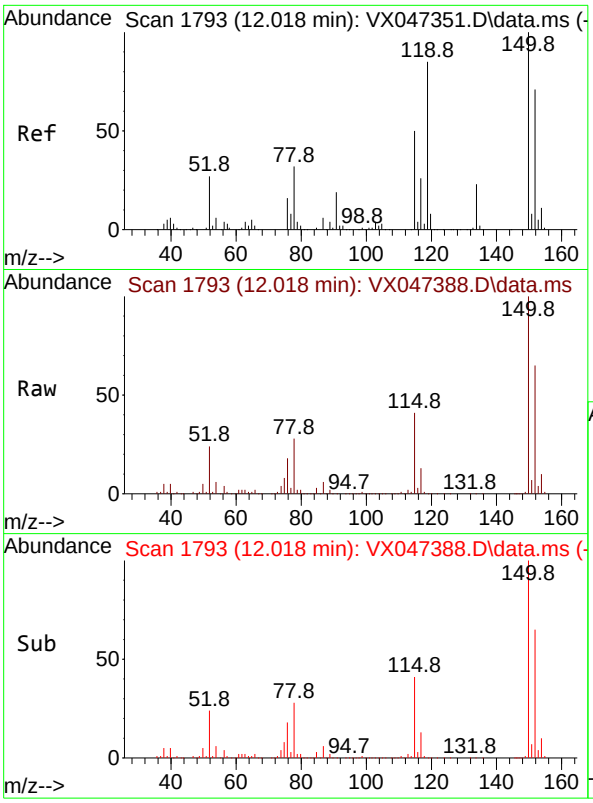


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047388.D
Acq: 18 Aug 2025 17:22

Tgt Ion:117 Resp: 526432

Ion	Ratio	Lower	Upper
117	100		
82	56.4	45.0	67.4
119	32.0	25.8	38.8



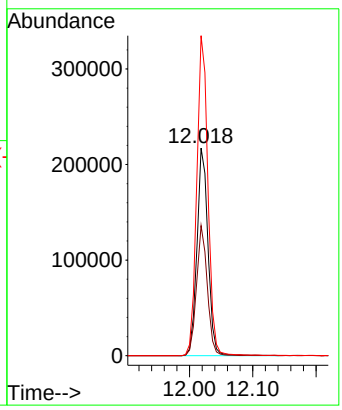


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047388.D
Acq: 18 Aug 2025 17:22

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-E

Tgt Ion:152 Resp: 264053

Ion	Ratio	Lower	Upper
152	100		
115	61.3	44.6	133.8
150	156.2	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047388.D
Acq On : 18 Aug 2025 17:22
Operator : JC/MD
Sample : Q2815-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-E

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047388.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	25	29	36	rBV	64063	133799	7.87%	1.395%
2	5.403	694	708	724	rBV2	184739	581147	34.17%	6.059%
3	5.568	724	735	757	rVB	273741	857232	50.41%	8.937%
4	5.964	790	800	819	rBV	199376	566915	33.34%	5.910%
5	6.769	922	932	956	rBV	501953	1282205	75.40%	13.367%
6	8.653	1234	1241	1260	rBV	1041555	1700557	100.00%	17.729%
7	10.055	1465	1471	1483	rBV	1166214	1635206	96.16%	17.047%
8	11.079	1634	1639	1653	rBV	945304	1205122	70.87%	12.564%
9	12.018	1788	1793	1810	rBV	1335231	1630006	95.85%	16.993%

Sum of corrected areas: 9592189

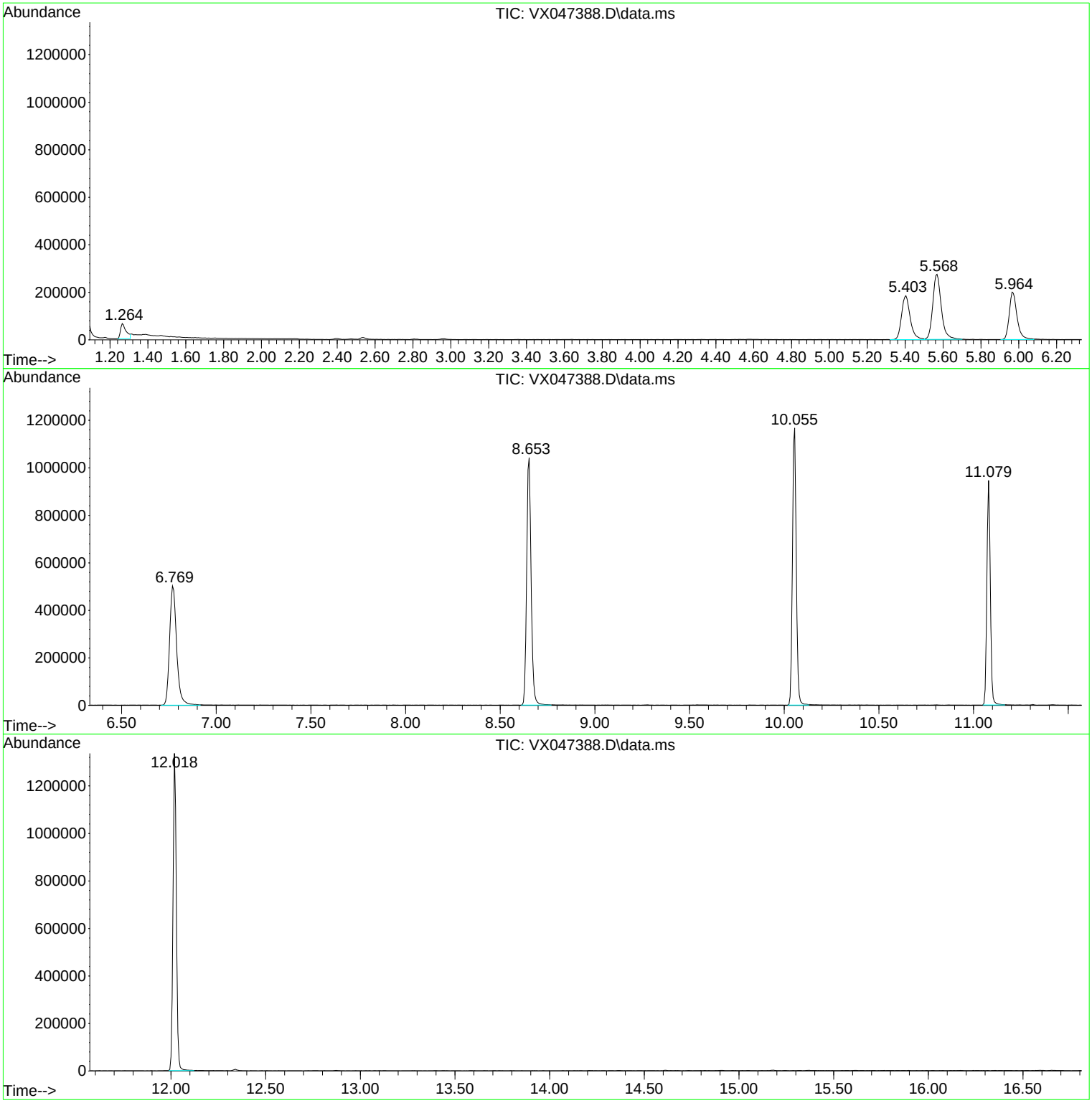
Sample Results: **VX047388.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047388.D
Acq On : 18 Aug 2025 17:22
Operator : JC/MD
Sample : Q2815-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047388.D
Acq On : 18 Aug 2025 17:22
Operator : JC/MD
Sample : Q2815-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081825\
Data File : VX047388.D
Acq On : 18 Aug 2025 17:22
Operator : JC/MD
Sample : Q2815-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-22M-N	SDG No.:	Q2815
Lab Sample ID:	Q2815-14	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
VX047389.D	1	08/18/25 17:44	VX081825

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	6.10		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	3.30		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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-22M-N	SDG No.:	Q2815
Lab Sample ID:	Q2815-14	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
VX047389.D	1	08/18/25 17:44	VX081825

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	57.2		81 - 118		114%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	49.5		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.9		85 - 114		114%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	217000	5.562				
540-36-3	1,4-Difluorobenzene	436000	6.769				
3114-55-4	Chlorobenzene-d5	440000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	227000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-22M-N	SDG No.:	Q2815
Lab Sample ID:	Q2815-14	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
VX047389.D	1	08/18/25 17:44	VX081825

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\VX081825\
Data File : VX047389.D
Acq On : 18 Aug 2025 17:44
Operator : JC/MD
Sample : Q2815-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-N

Quant Time: Aug 19 01:47:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

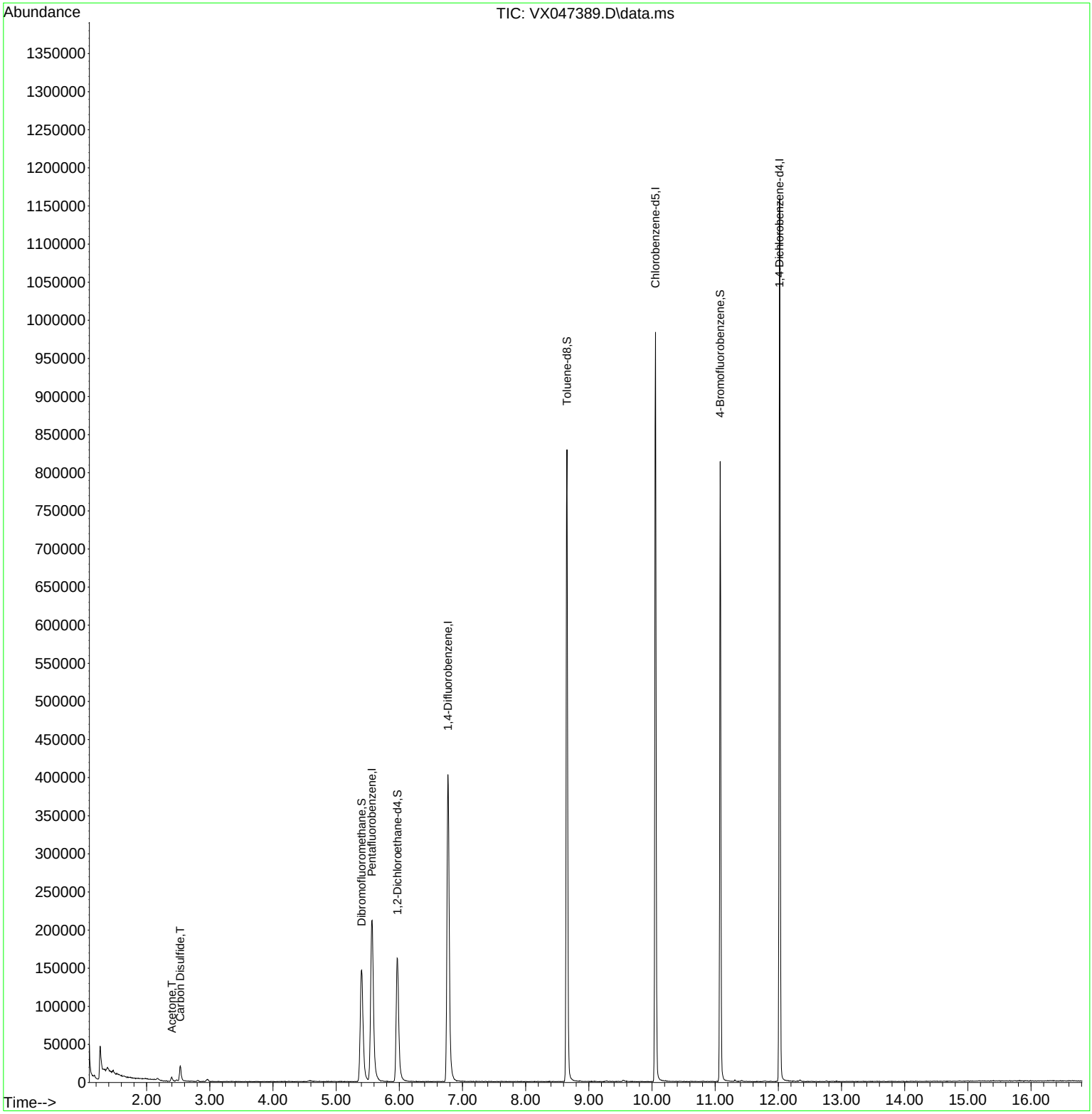
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	216971	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	436090	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	439636	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	227147	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.971	65	173632	57.180	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 114.360%			
35) Dibromofluoromethane	5.404	113	139762	49.381	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.760%			
50) Toluene-d8	8.653	98	500774	49.503	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.000%			
62) 4-Bromofluorobenzene	11.079	95	212376	56.891	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 113.780%			
Target Compounds						Qvalue
16) Acetone	2.398	43	6991	6.125	ug/l #	87
17) Carbon Disulfide	2.532	76	27495	3.335	ug/l	100

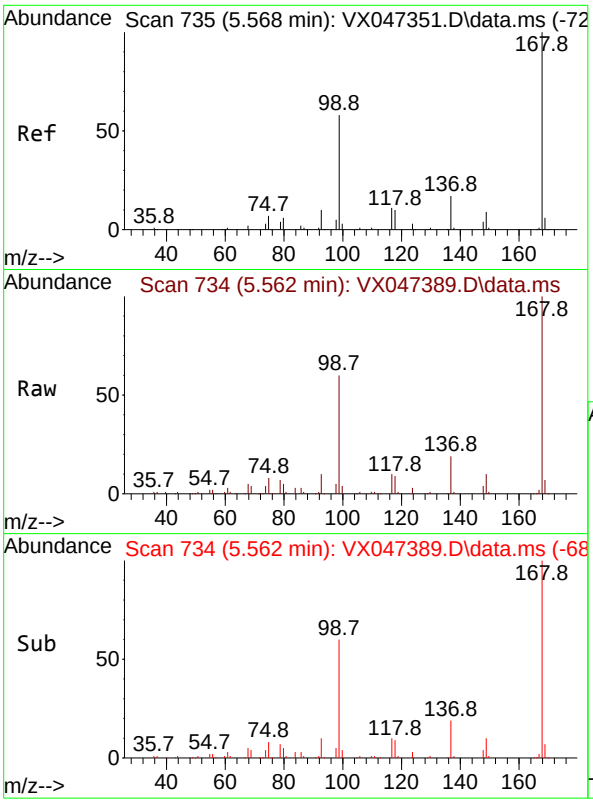
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047389.D
Acq On : 18 Aug 2025 17:44
Operator : JC/MD
Sample : Q2815-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-N

Quant Time: Aug 19 01:47:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



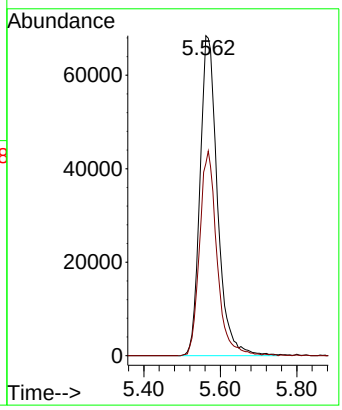


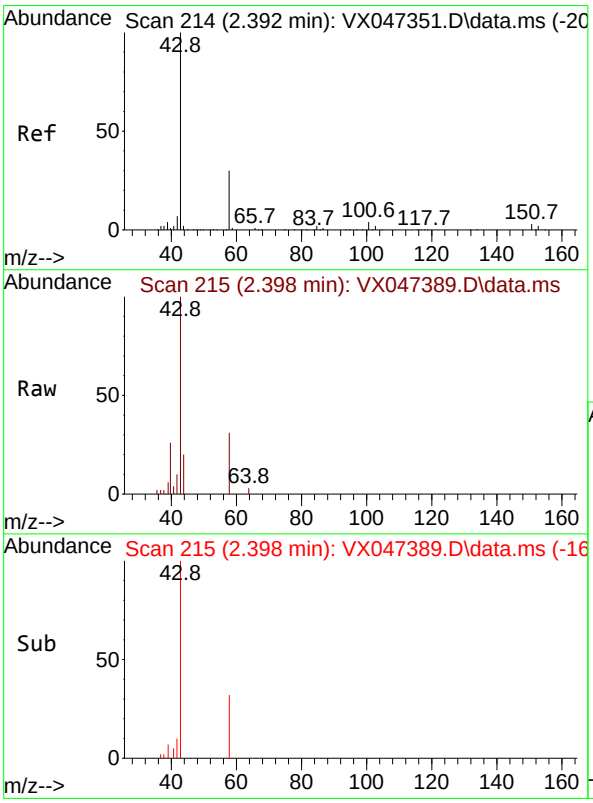
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047389.D
Acq: 18 Aug 2025 17:44

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-N

Tgt Ion:168 Resp: 216971

Ion	Ratio	Lower	Upper
168	100		
99	60.1	47.9	71.9

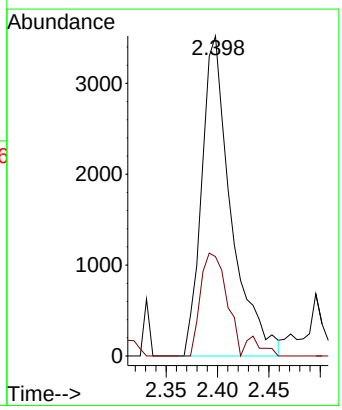


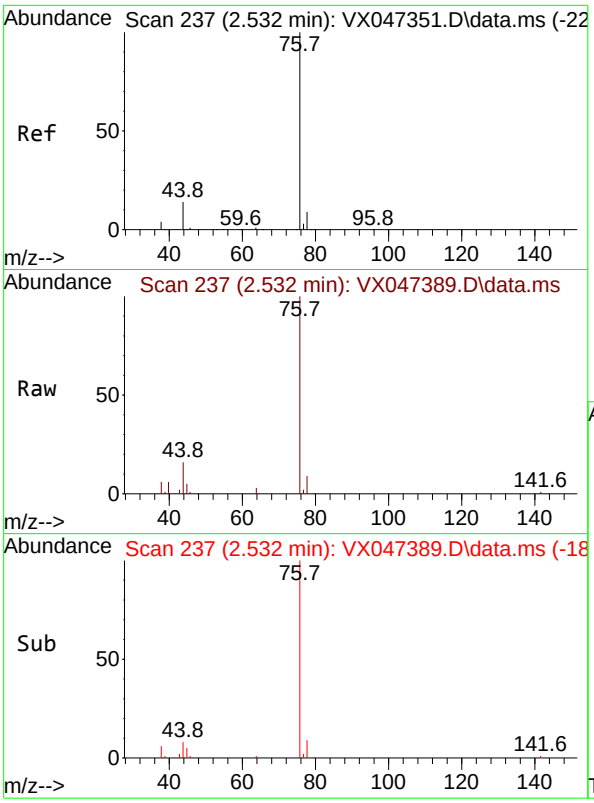


#16
Acetone
Concen: 6.125 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047389.D
Acq: 18 Aug 2025 17:44

Tgt Ion: 43 Resp: 6991

Ion	Ratio	Lower	Upper
43	100		
58	37.9	24.8	37.2#



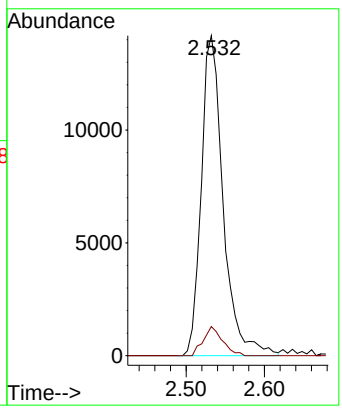


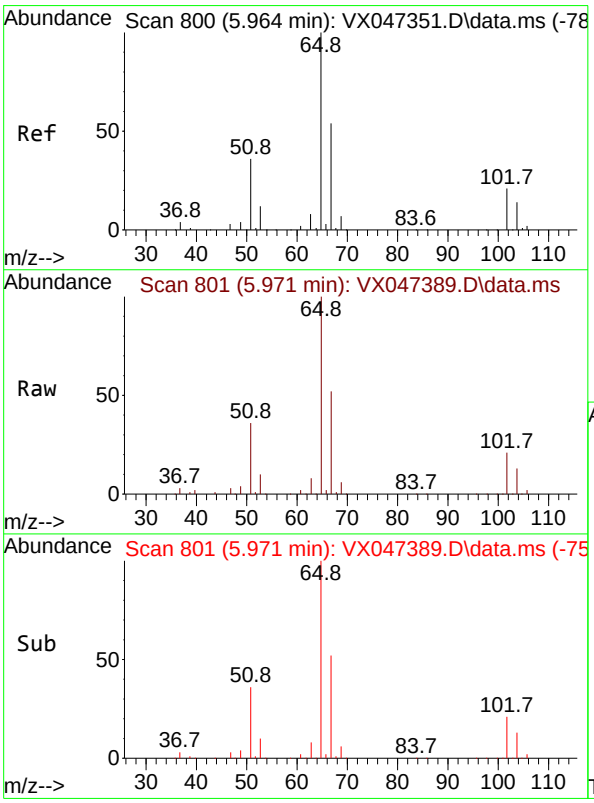
#17
Carbon Disulfide
Concen: 3.335 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047389.D
Acq: 18 Aug 2025 17:44

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-N

Tgt Ion: 76 Resp: 27495

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

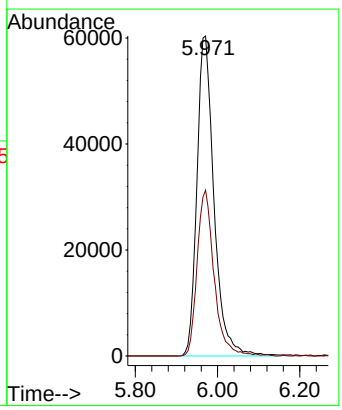


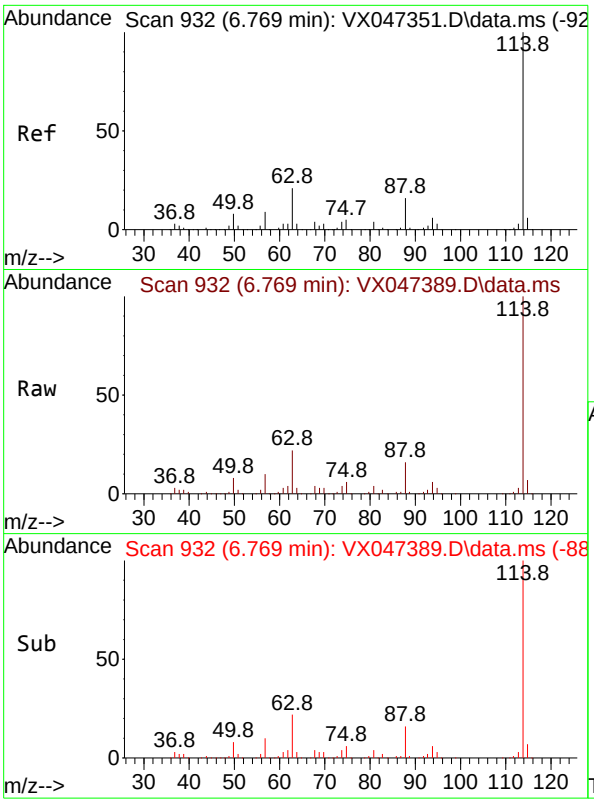


#33
1,2-Dichloroethane-d4
Concen: 57.180 ug/l
RT: 5.971 min Scan# 801
Delta R.T. 0.006 min
Lab File: VX047389.D
Acq: 18 Aug 2025 17:44

Tgt Ion: 65 Resp: 173632

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	106.0



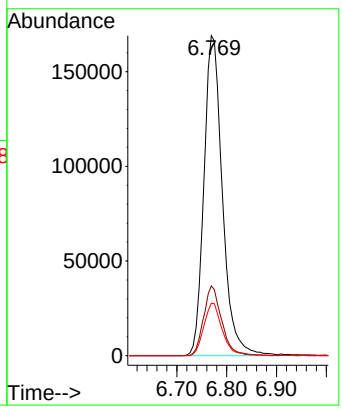


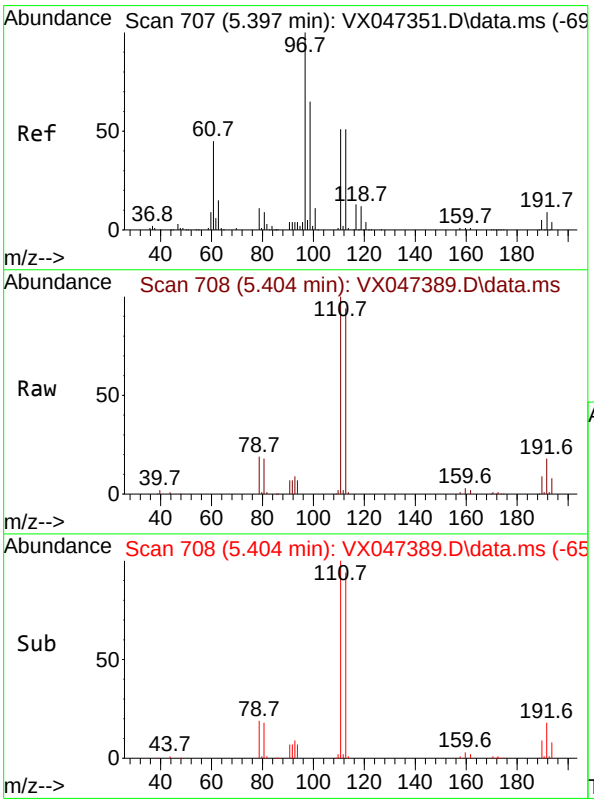
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047389.D
Acq: 18 Aug 2025 17:44

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-N

Tgt Ion:114 Resp: 436090

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	42.4
88	16.4	0.0	33.0

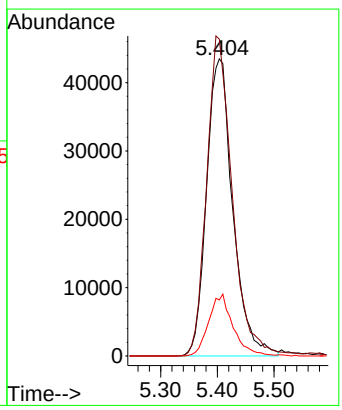


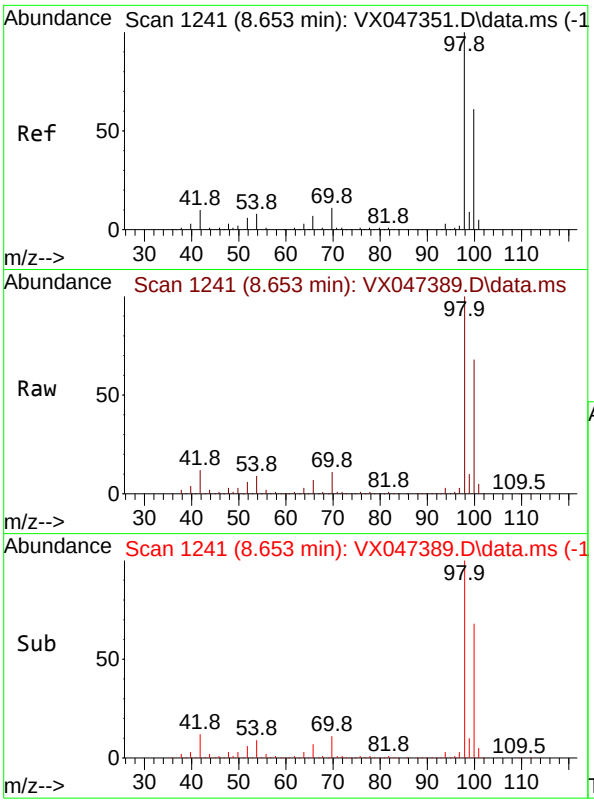


#35
Dibromofluoromethane
Concen: 49.381 ug/l
RT: 5.404 min Scan# 708
Delta R.T. 0.006 min
Lab File: VX047389.D
Acq: 18 Aug 2025 17:44

Tgt Ion:113 Resp: 139762

Ion	Ratio	Lower	Upper
113	100		
111	105.3	81.4	122.2
192	19.2	14.1	21.1



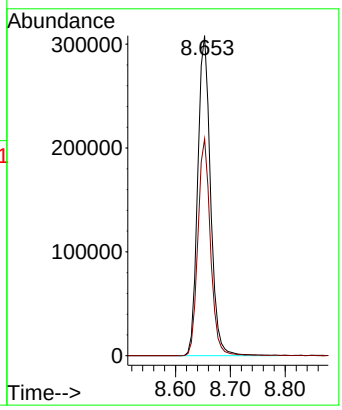


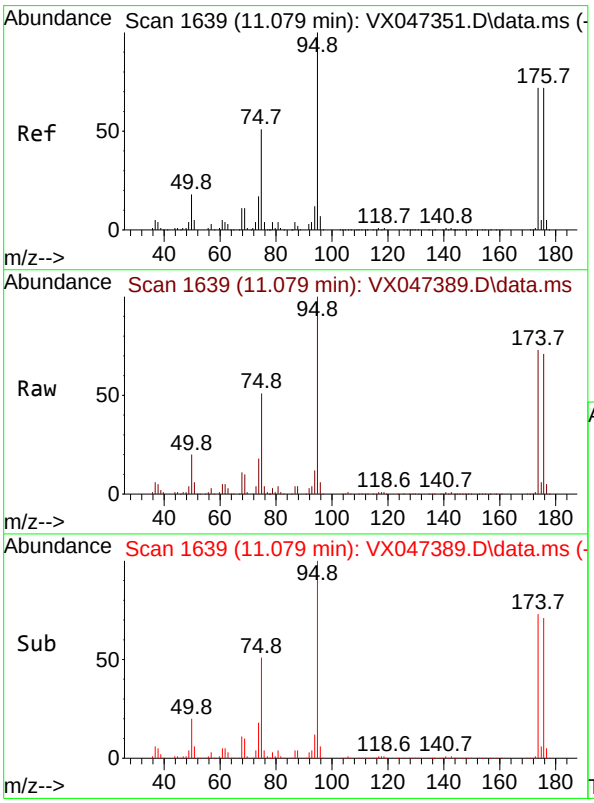
#50
Toluene-d8
Concen: 49.503 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047389.D
Acq: 18 Aug 2025 17:44

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-N

Tgt Ion: 98 Resp: 500774

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.9	80.9

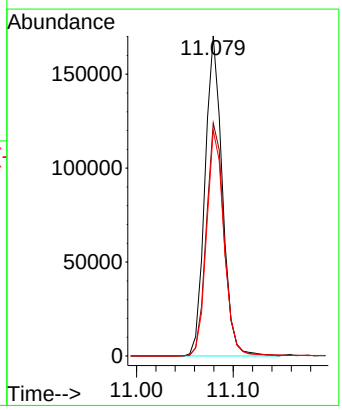


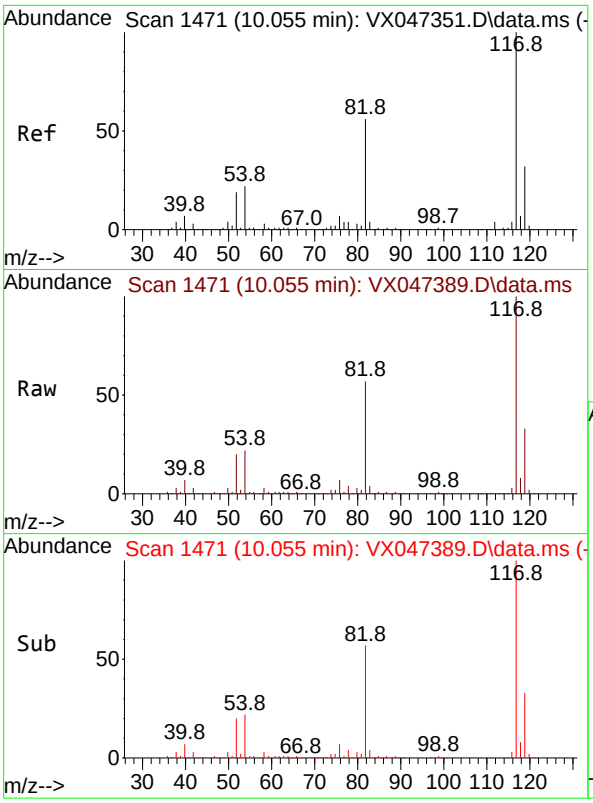


#62
4-Bromofluorobenzene
Concen: 56.891 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047389.D
Acq: 18 Aug 2025 17:44

Tgt Ion: 95 Resp: 212376

Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	148.0
176	71.1	0.0	145.4



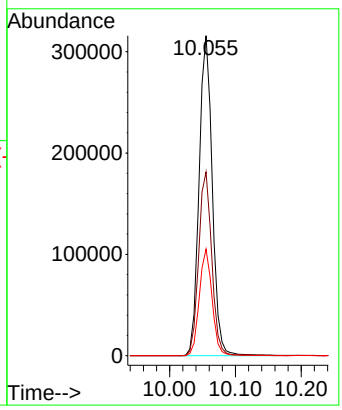


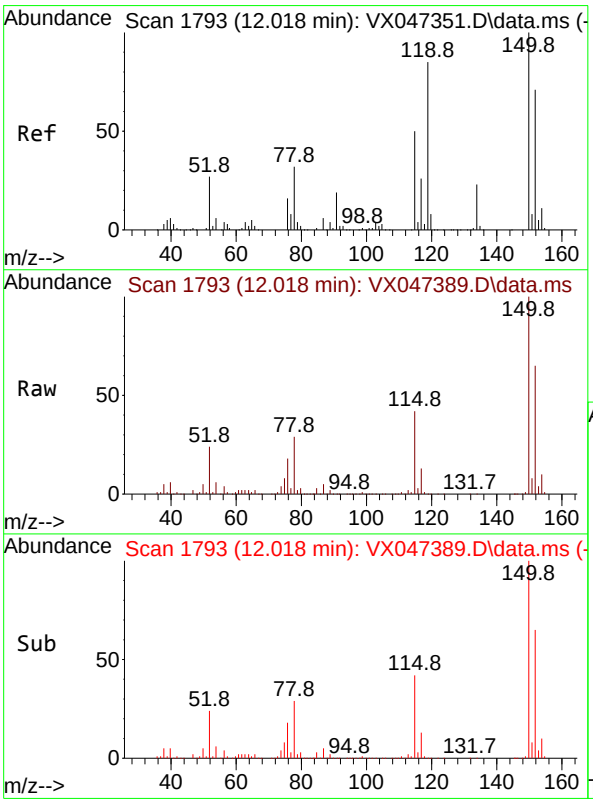
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047389.D
Acq: 18 Aug 2025 17:44

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-N

Tgt Ion:117 Resp: 439636

Ion	Ratio	Lower	Upper
117	100		
82	57.4	45.0	67.4
119	33.3	25.8	38.8

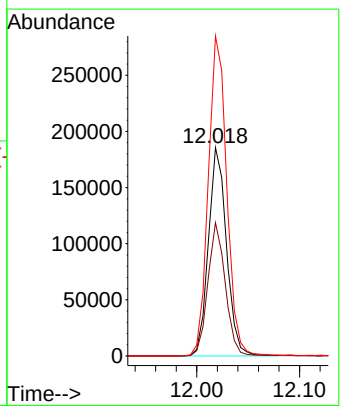




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047389.D
Acq: 18 Aug 2025 17:44

Tgt Ion:152 Resp: 227147

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.6	133.8
150	156.8	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047389.D
Acq On : 18 Aug 2025 17:44
Operator : JC/MD
Sample : Q2815-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-N

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047389.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	25	29	37	rBV	42786	92490	6.54%	1.166%
2	2.532	232	237	248	rVB2	19540	37825	2.67%	0.477%
3	5.404	697	708	725	rBV3	146064	469957	33.21%	5.926%
4	5.568	725	735	758	rVB2	211073	674890	47.69%	8.511%
5	5.964	789	800	820	rBV	162067	471762	33.34%	5.949%
6	6.769	923	932	949	rBV	402927	1031190	72.87%	13.004%
7	8.653	1234	1241	1257	rBV	829174	1351211	95.48%	17.039%
8	10.055	1465	1471	1484	rBV	983229	1371363	96.91%	17.294%
9	11.079	1634	1639	1653	rBV	812742	1014118	71.66%	12.789%
10	12.018	1788	1793	1807	rBV	1157710	1415104	100.00%	17.845%

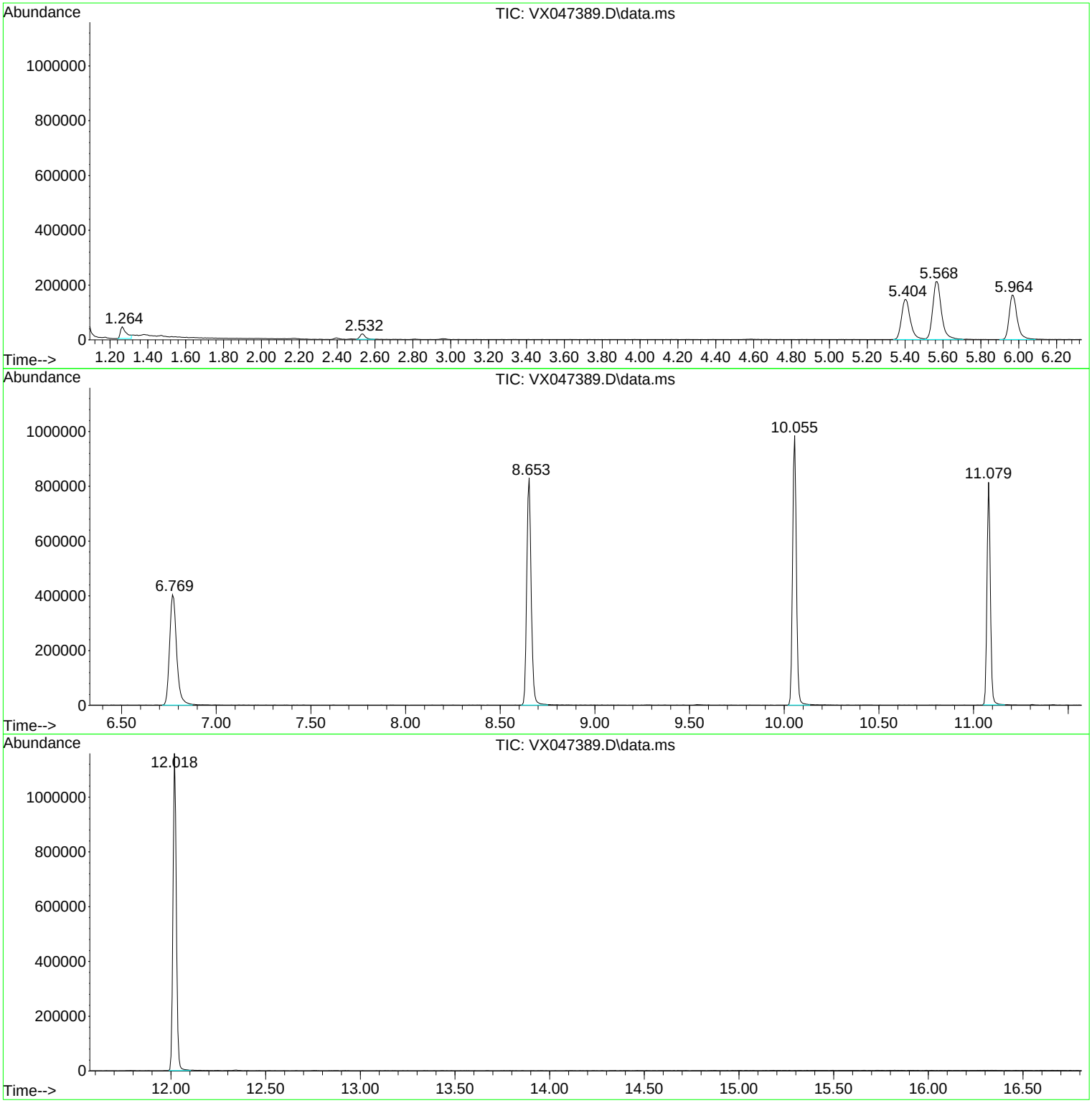
Sum of corrected areas: 7929910

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047389.D
Acq On : 18 Aug 2025 17:44
Operator : JC/MD
Sample : Q2815-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047389.D
Acq On : 18 Aug 2025 17:44
Operator : JC/MD
Sample : Q2815-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081825\
Data File : VX047389.D
Acq On : 18 Aug 2025 17:44
Operator : JC/MD
Sample : Q2815-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-17M-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-15	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
VX047390.D	1	08/18/25 18:05	VX081825

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	7.30		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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-17M-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-15	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
VX047390.D	1	08/18/25 18:05	VX081825

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	54.6		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.7		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.1		85 - 114		110%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	250000	5.568				
540-36-3	1,4-Difluorobenzene	486000	6.769				
3114-55-4	Chlorobenzene-d5	487000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	241000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-17M-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-15	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
VX047390.D	1	08/18/25 18:05	VX081825

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047390.D
Acq On : 18 Aug 2025 18:05
Operator : JC/MD
Sample : Q2815-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-E

Quant Time: Aug 19 01:47:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

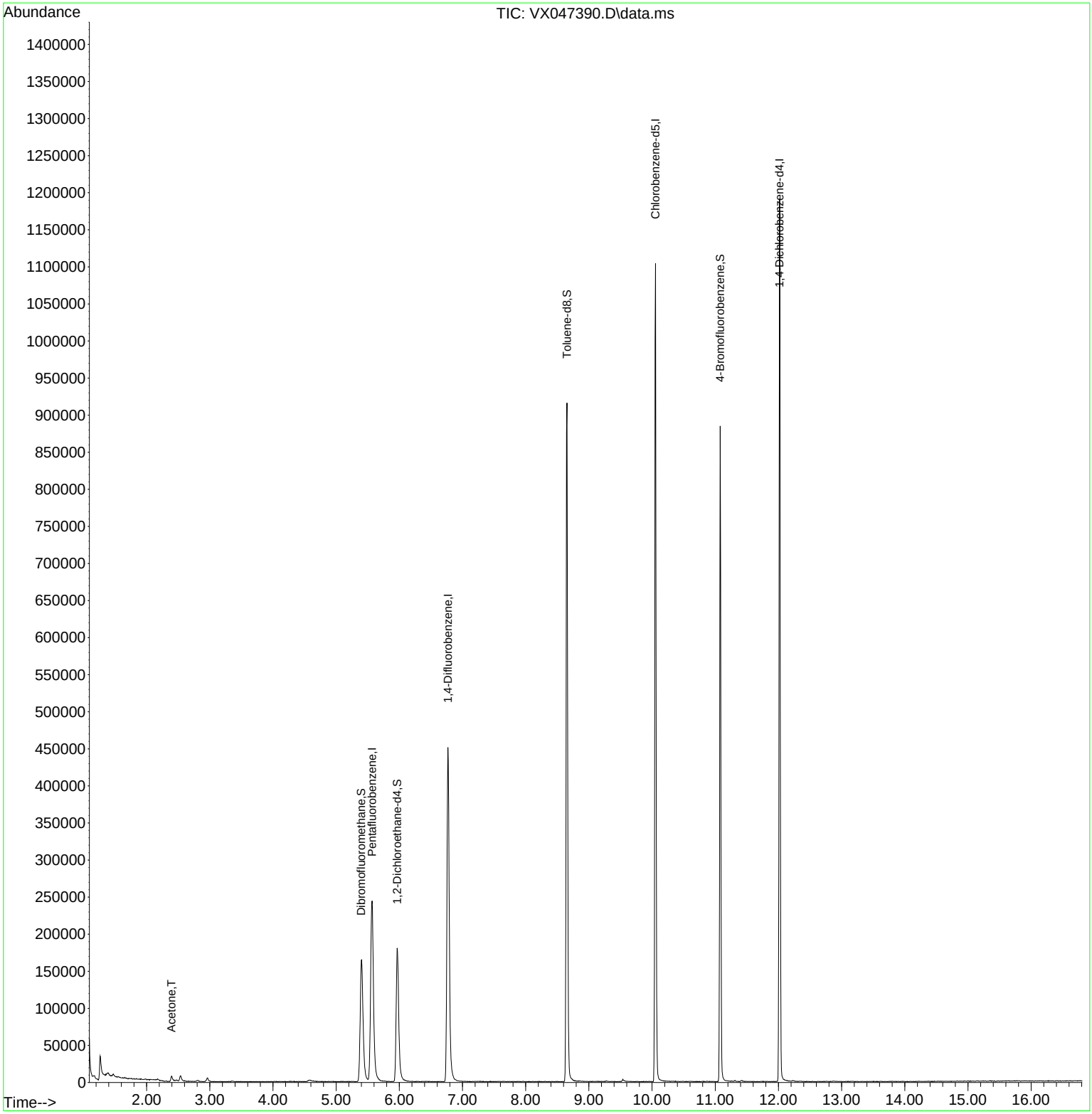
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	249880	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	486066	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	487332	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	241466	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	191023	54.622	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.240%			
35) Dibromofluoromethane	5.397	113	160622	50.917	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.840%			
50) Toluene-d8	8.653	98	560013	49.667	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.340%			
62) 4-Bromofluorobenzene	11.079	95	229359	55.123	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.240%			
Target Compounds						Qvalue
16) Acetone	2.392	43	9634	7.329	ug/l	98

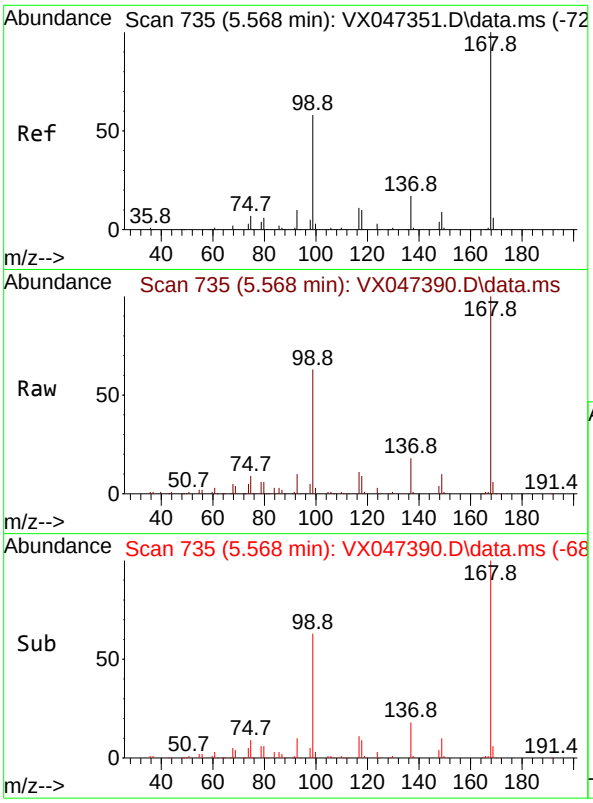
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047390.D
Acq On : 18 Aug 2025 18:05
Operator : JC/MD
Sample : Q2815-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-E

Quant Time: Aug 19 01:47:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



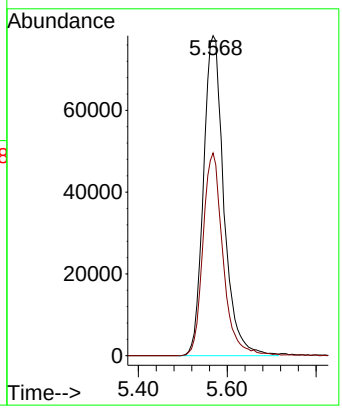


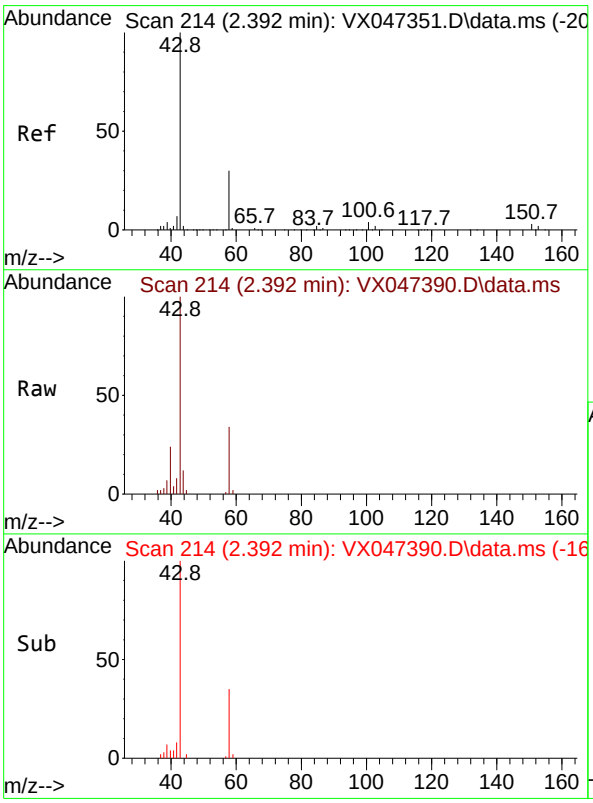
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047390.D
Acq: 18 Aug 2025 18:05

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-E

Tgt Ion:168 Resp: 249880

Ion	Ratio	Lower	Upper
168	100		
99	63.4	47.9	71.9

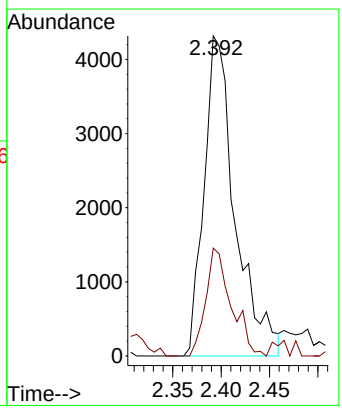


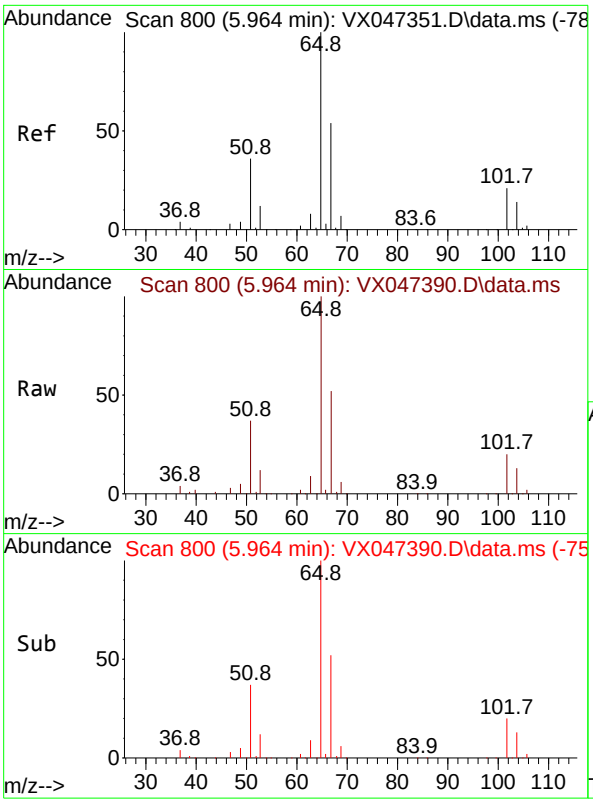


#16
Acetone
Concen: 7.329 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047390.D
Acq: 18 Aug 2025 18:05

Tgt Ion: 43 Resp: 9634

Ion	Ratio	Lower	Upper
43	100		
58	32.1	24.8	37.2



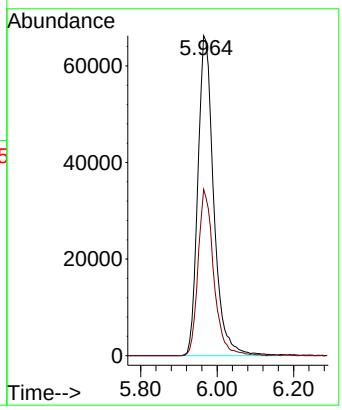


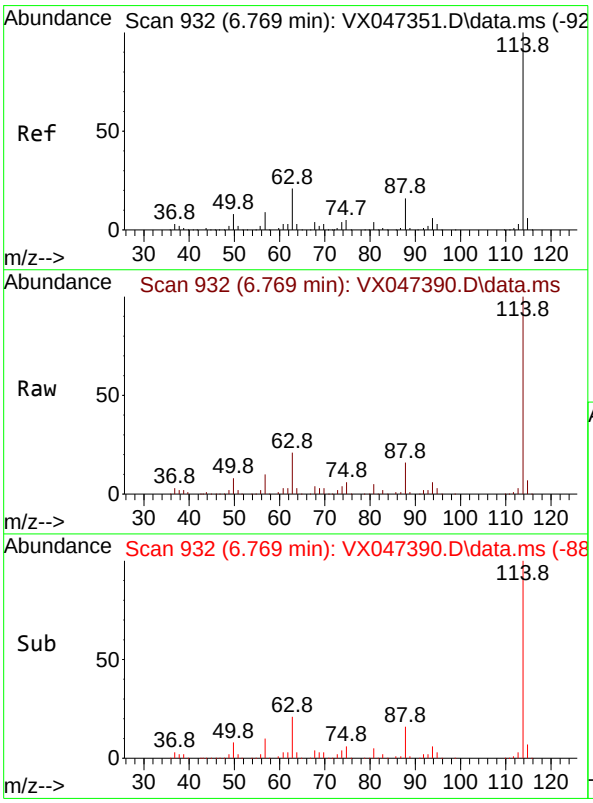
#33
1,2-Dichloroethane-d4
Concen: 54.622 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047390.D
Acq: 18 Aug 2025 18:05

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-E

Tgt Ion: 65 Resp: 191023

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	106.0

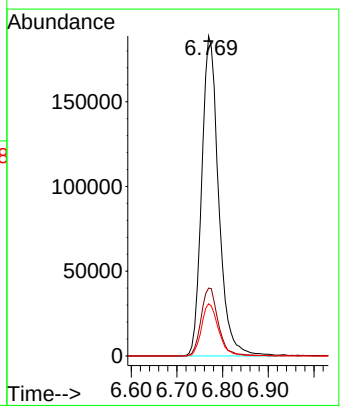


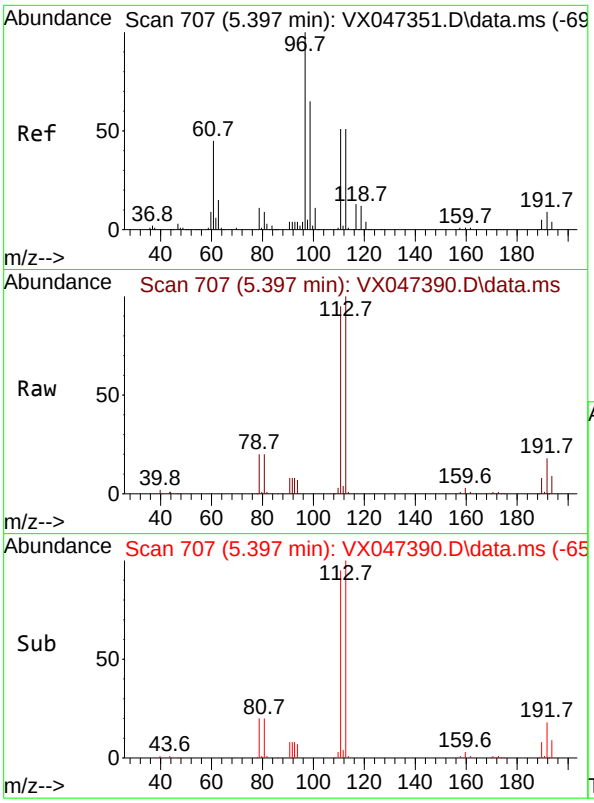


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047390.D
Acq: 18 Aug 2025 18:05

Tgt Ion:114 Resp: 486066

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	16.3	0.0	33.0



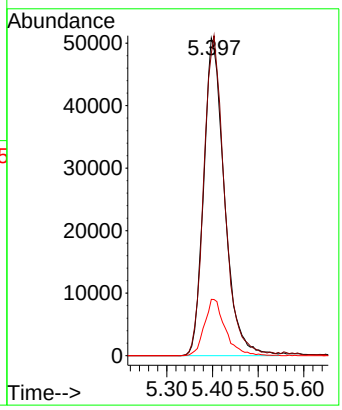


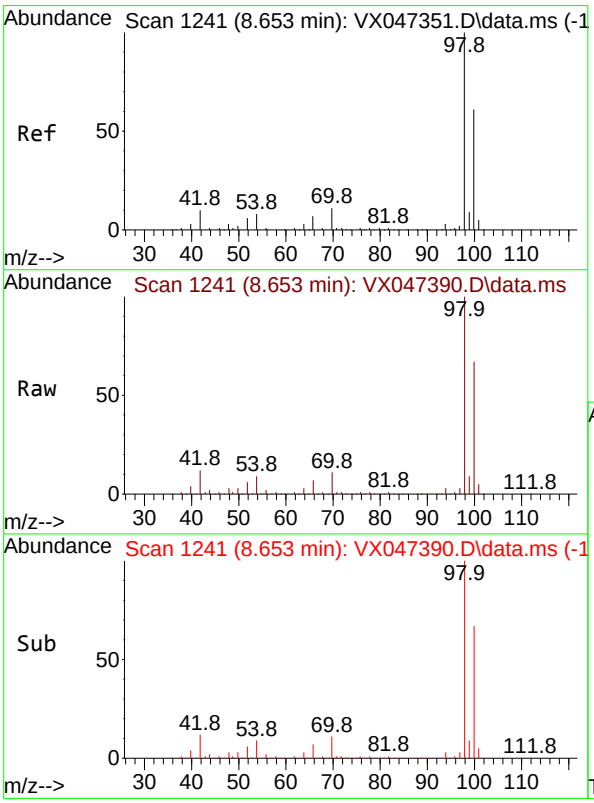
#35
Dibromofluoromethane
Concen: 50.917 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047390.D
Acq: 18 Aug 2025 18:05

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-E

Tgt Ion:113 Resp: 160622

Ion	Ratio	Lower	Upper
113	100		
111	100.5	81.4	122.2
192	17.8	14.1	21.1

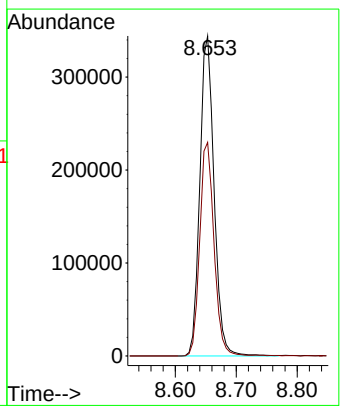


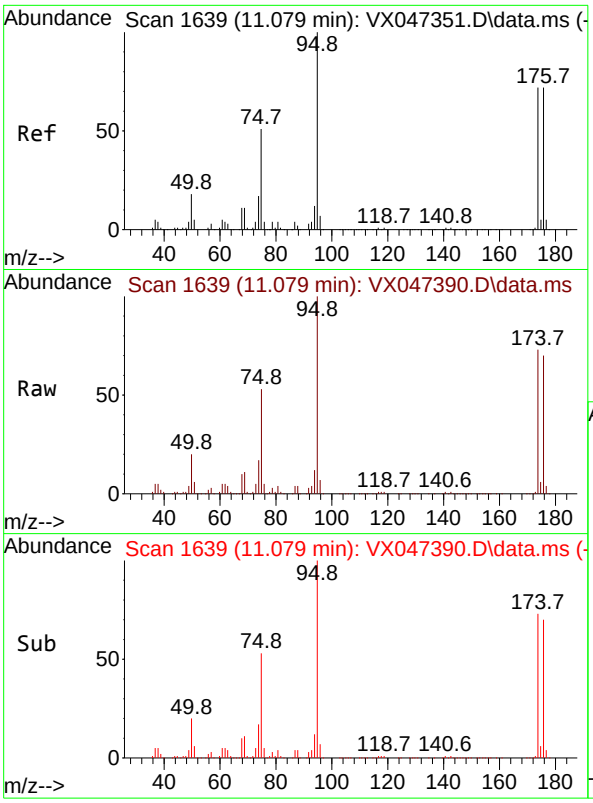


#50
Toluene-d8
Concen: 49.667 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047390.D
Acq: 18 Aug 2025 18:05

Tgt Ion: 98 Resp: 560013

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.9	80.9



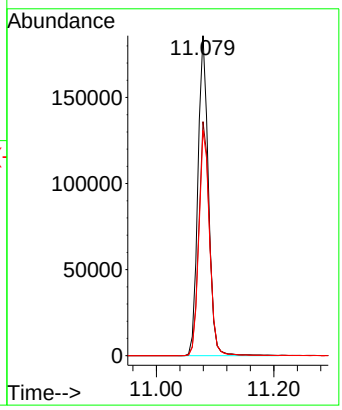


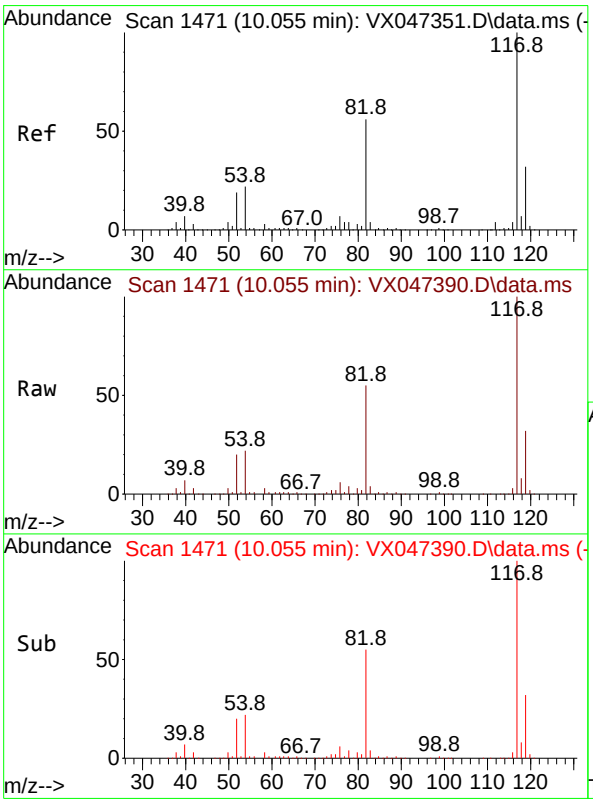
#62
4-Bromofluorobenzene
Concen: 55.123 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047390.D
Acq: 18 Aug 2025 18:05

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-E

Tgt Ion: 95 Resp: 229359

Ion	Ratio	Lower	Upper
95	100		
174	74.6	0.0	148.0
176	71.9	0.0	145.4

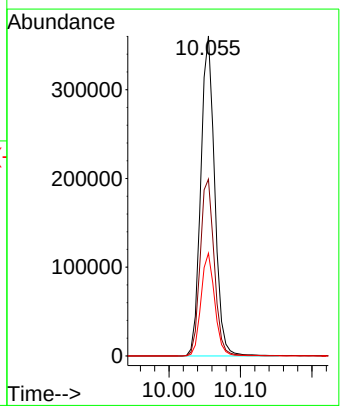


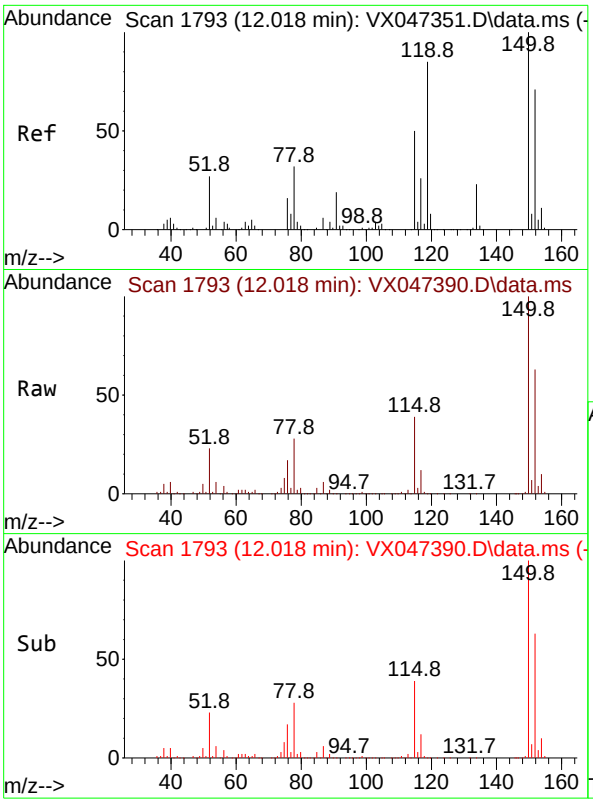


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047390.D
Acq: 18 Aug 2025 18:05

Tgt Ion:117 Resp: 487332

Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.0	67.4
119	32.1	25.8	38.8



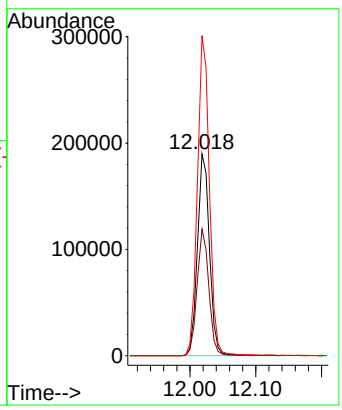


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047390.D
Acq: 18 Aug 2025 18:05

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-E

Tgt Ion:152 Resp: 241466

Ion	Ratio	Lower	Upper
152	100		
115	61.3	44.6	133.8
150	157.3	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047390.D
Acq On : 18 Aug 2025 18:05
Operator : JC/MD
Sample : Q2815-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-E

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047390.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	24	29	37	rBV	32164	69986	4.63%	0.807%
2	2.538	232	238	247	rVB3	7270	15802	1.05%	0.182%
3	5.404	696	708	725	rBV3	164317	524988	34.76%	6.053%
4	5.568	725	735	759	rVB	242935	772198	51.12%	8.903%
5	5.964	790	800	817	rBV	180082	512966	33.96%	5.914%
6	6.769	923	932	962	rBV	450607	1162524	76.96%	13.404%
7	8.653	1234	1241	1258	rBV	915125	1510497	100.00%	17.416%
8	10.055	1465	1471	1483	rBV	1103416	1504368	99.59%	17.345%
9	11.079	1634	1639	1653	rBV	883970	1097875	72.68%	12.658%
10	12.018	1788	1793	1808	rBV	1190112	1502015	99.44%	17.318%

Sum of corrected areas: 8673219

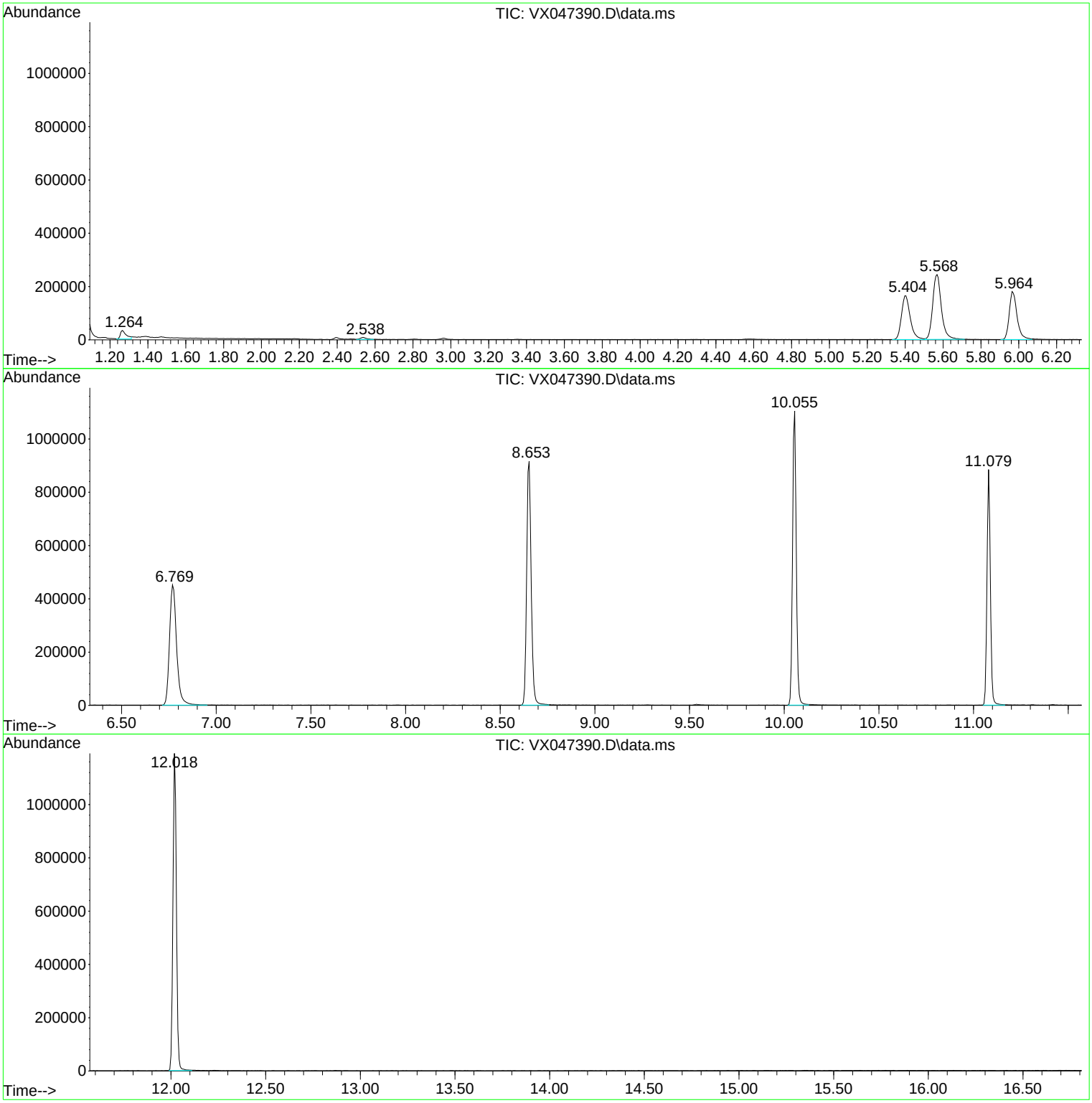
Sample Results: **VX047390.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047390.D
Acq On : 18 Aug 2025 18:05
Operator : JC/MD
Sample : Q2815-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047390.D
Acq On : 18 Aug 2025 18:05
Operator : JC/MD
Sample : Q2815-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081825\
Data File : VX047390.D
Acq On : 18 Aug 2025 18:05
Operator : JC/MD
Sample : Q2815-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-17M-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-16	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
VX047391.D	1	08/18/25 18:27	VX081825

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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-17M-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-16	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
VX047391.D	1	08/18/25 18:27	VX081825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	53.4		89 - 112		107%	SPK: 50
460-00-4	4-Bromofluorobenzene	58.2	*	85 - 114		116%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	267000	5.568				
540-36-3	1,4-Difluorobenzene	513000	6.769				
3114-55-4	Chlorobenzene-d5	504000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	254000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-17M-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-16	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
VX047391.D	1	08/18/25 18:27	VX081825

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\VX081825\
Data File : VX047391.D
Acq On : 18 Aug 2025 18:27
Operator : JC/MD
Sample : Q2815-16
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-S

Quant Time: Aug 19 01:47:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	266934	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	513263	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	504355	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	253687	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	198926	53.248	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.500%			
35) Dibromofluoromethane	5.403	113	173468	52.075	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.140%			
50) Toluene-d8	8.653	98	636171	53.431	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.860%			
62) 4-Bromofluorobenzene	11.079	95	255538	58.161	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 116.320%			

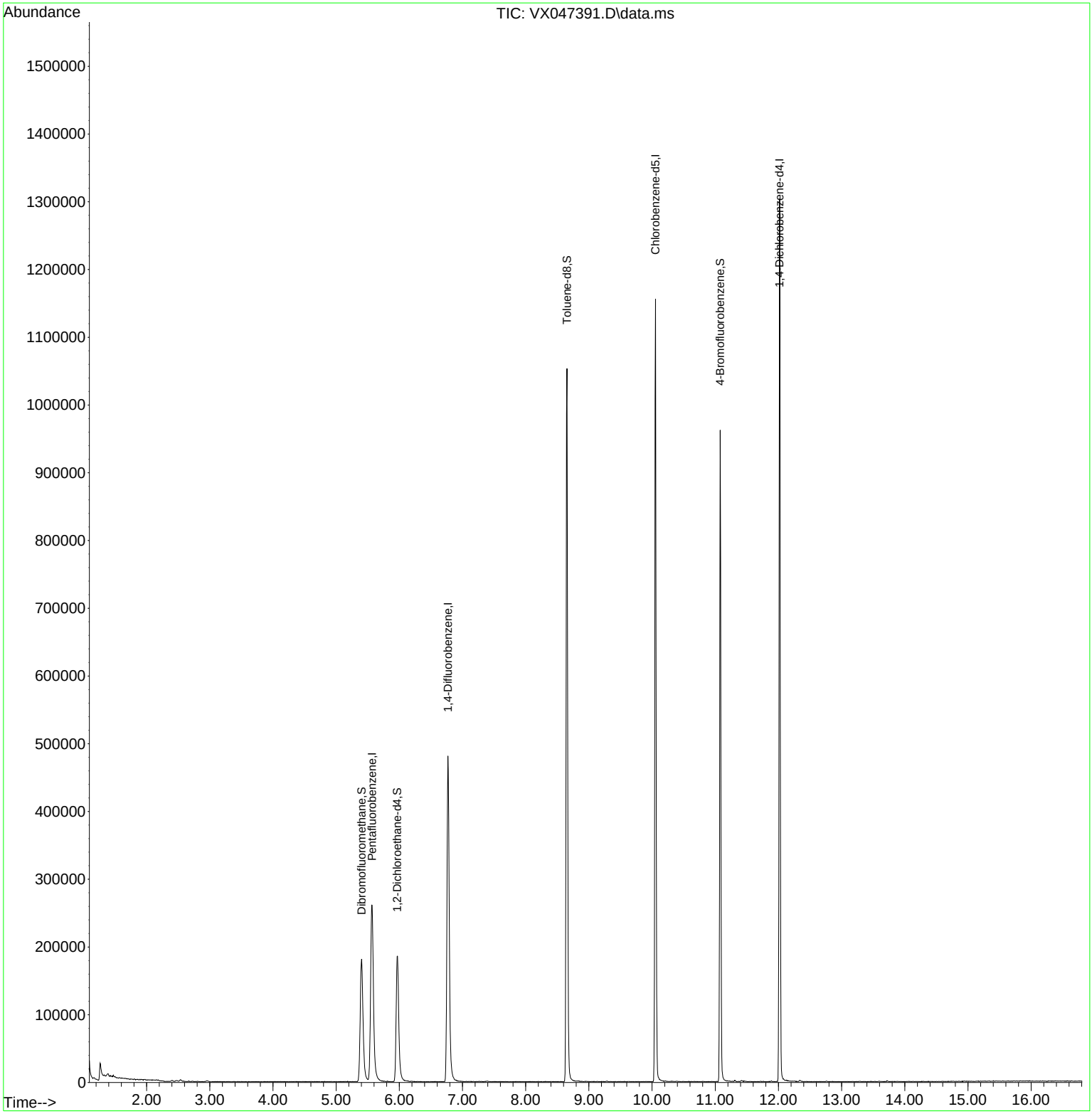
Target Compounds Qvalue

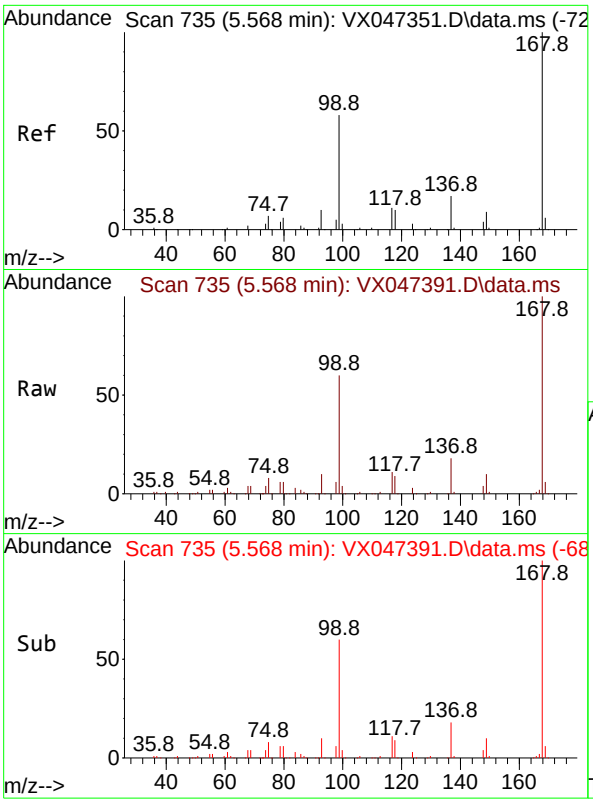
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047391.D
Acq On : 18 Aug 2025 18:27
Operator : JC/MD
Sample : Q2815-16
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-S

Quant Time: Aug 19 01:47:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



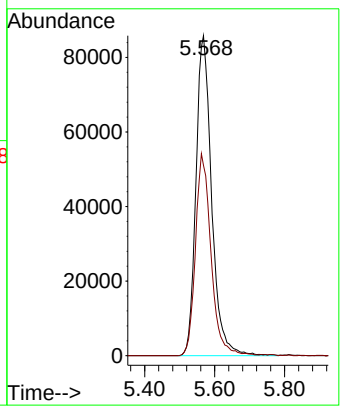


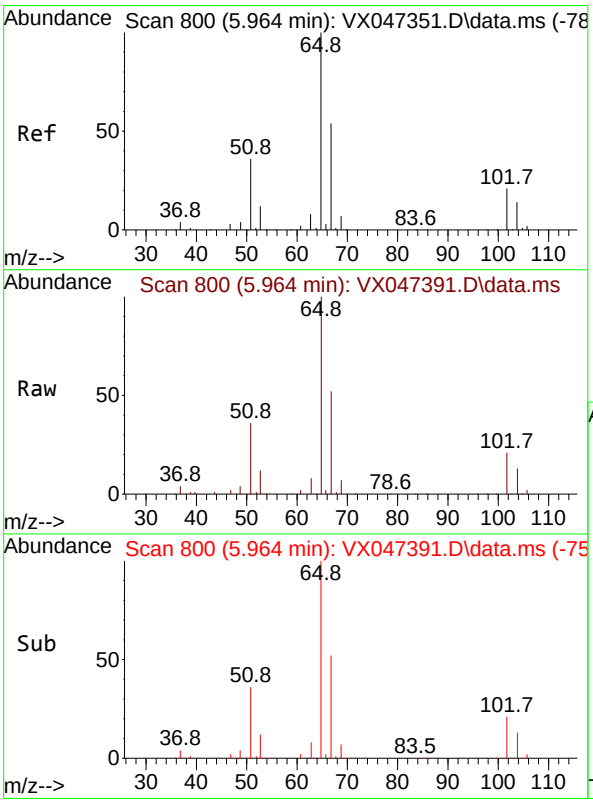
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047391.D
Acq: 18 Aug 2025 18:27

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-S

Tgt Ion:168 Resp: 266934

Ion	Ratio	Lower	Upper
168	100		
99	59.5	47.9	71.9

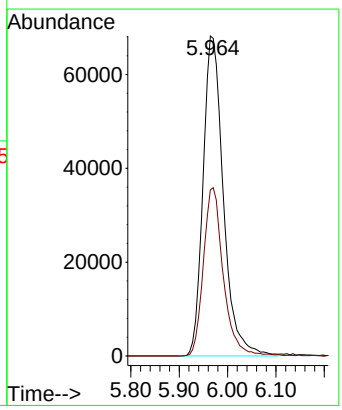


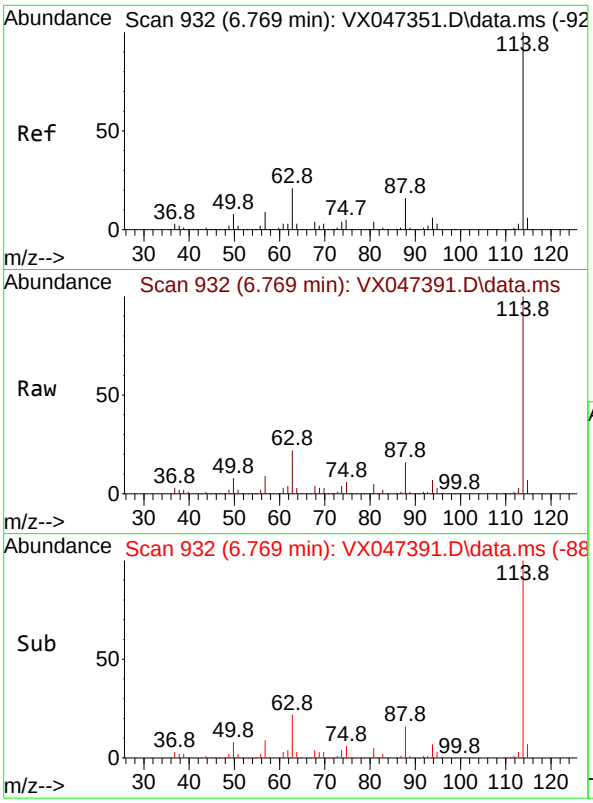


#33
1,2-Dichloroethane-d4
Concen: 53.248 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047391.D
Acq: 18 Aug 2025 18:27

Tgt Ion: 65 Resp: 198926

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	106.0



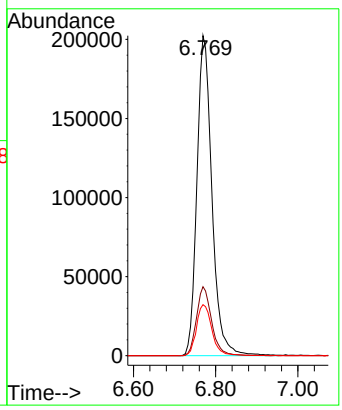


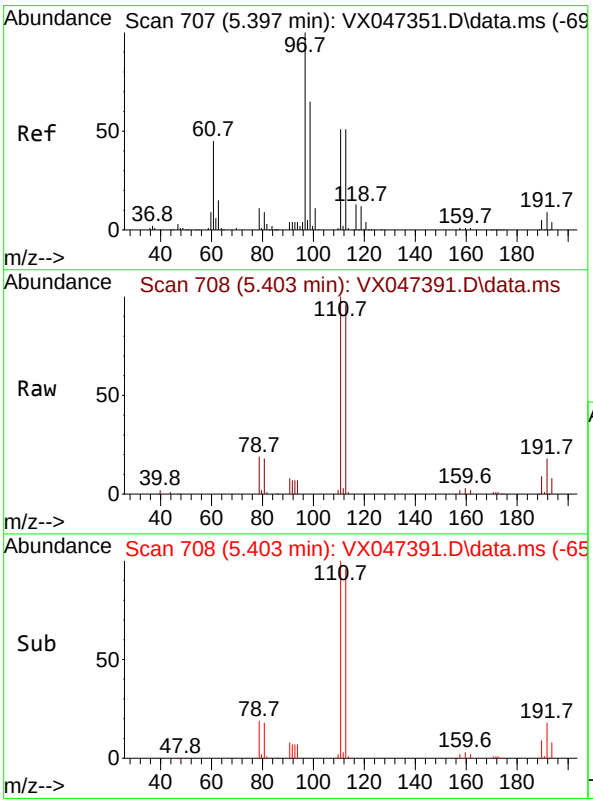
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047391.D
Acq: 18 Aug 2025 18:27

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-S

Tgt Ion:114 Resp: 513263

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	42.4
88	16.0	0.0	33.0

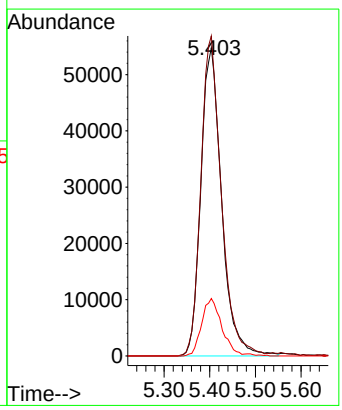


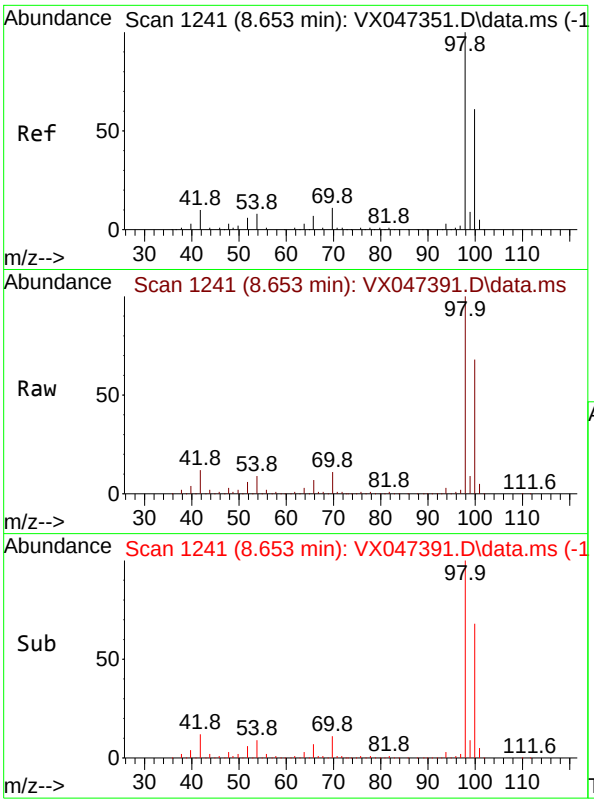


#35
Dibromofluoromethane
Concen: 52.075 ug/l
RT: 5.403 min Scan# 708
Delta R.T. 0.006 min
Lab File: VX047391.D
Acq: 18 Aug 2025 18:27

Tgt Ion:113 Resp: 173468

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.4	122.2
192	18.0	14.1	21.1



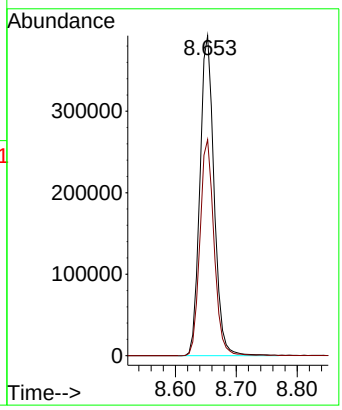


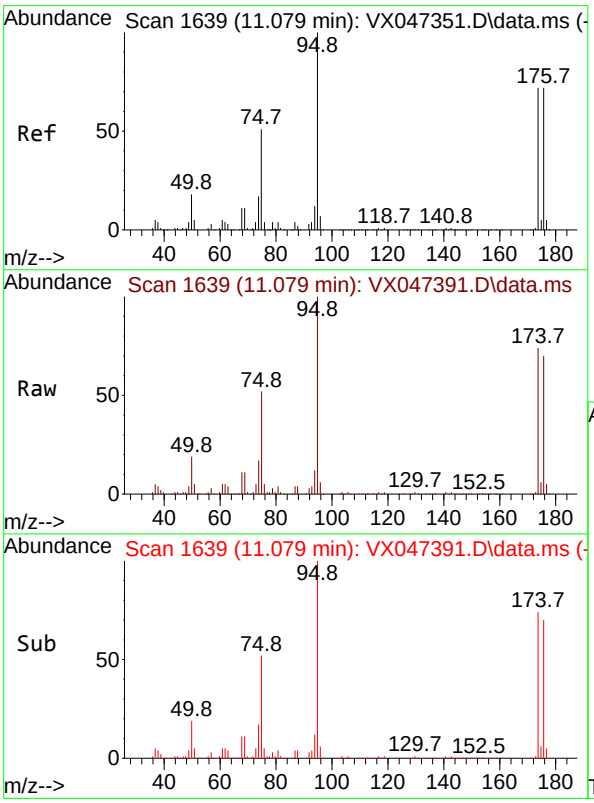
#50
Toluene-d8
Concen: 53.431 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047391.D
Acq: 18 Aug 2025 18:27

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-S

Tgt Ion: 98 Resp: 636171

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.9	80.9

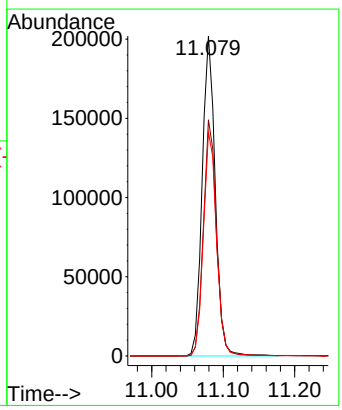


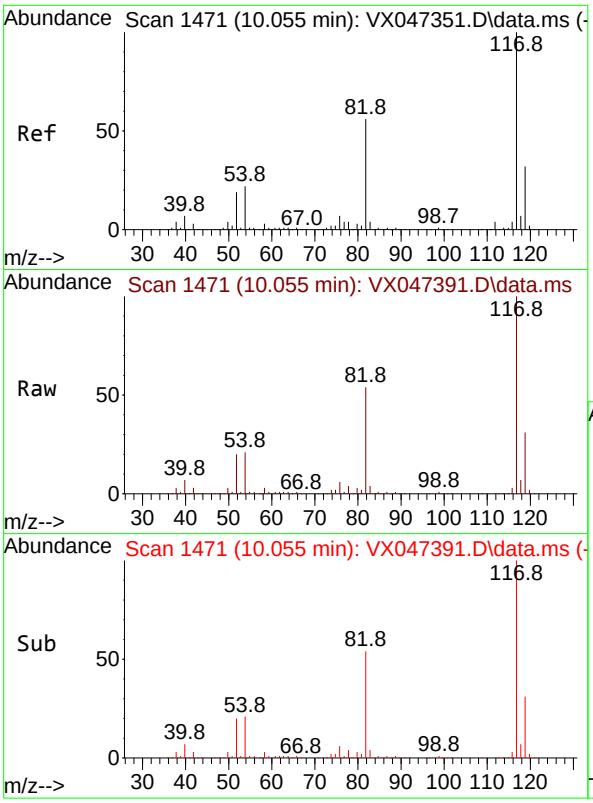


#62
4-Bromofluorobenzene
Concen: 58.161 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047391.D
Acq: 18 Aug 2025 18:27

Tgt Ion: 95 Resp: 255538

Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	148.0
176	70.8	0.0	145.4



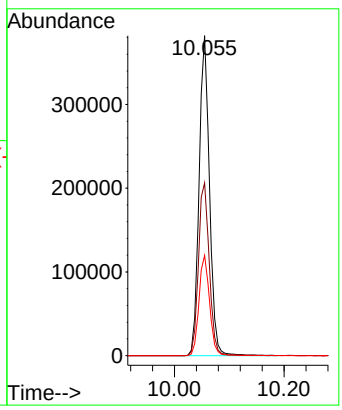


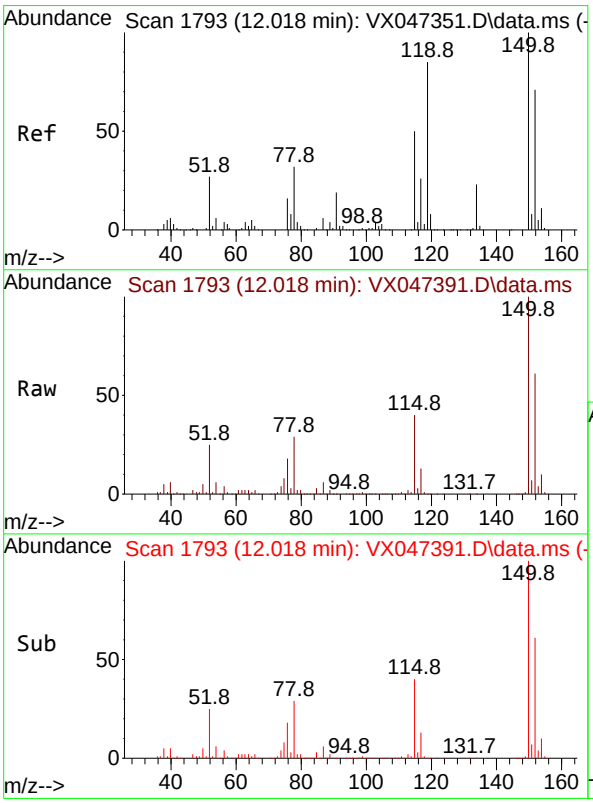
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047391.D
Acq: 18 Aug 2025 18:27

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-S

Tgt Ion:117 Resp: 504355

Ion	Ratio	Lower	Upper
117	100		
82	54.0	45.0	67.4
119	31.4	25.8	38.8

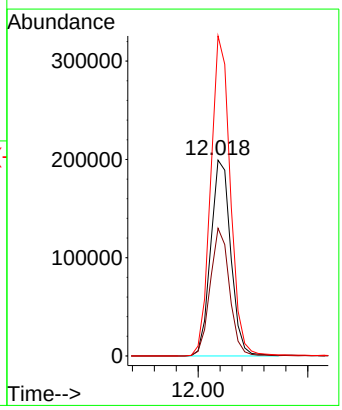




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047391.D
Acq: 18 Aug 2025 18:27

Tgt Ion:152 Resp: 253687

Ion	Ratio	Lower	Upper
152	100		
115	62.8	44.6	133.8
150	160.0	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047391.D
Acq On : 18 Aug 2025 18:27
Operator : JC/MD
Sample : Q2815-16
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-S

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047391.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	25	29	38	rBV	25103	57693	3.35%	0.618%
2	5.403	695	708	724	rBV3	181034	570844	33.10%	6.116%
3	5.562	724	734	760	rVB2	260014	827717	47.99%	8.868%
4	5.970	790	801	819	rBV	185548	540881	31.36%	5.795%
5	6.769	922	932	950	rBV	480797	1220499	70.77%	13.077%
6	8.653	1234	1241	1262	rBV	1052364	1724626	100.00%	18.478%
7	10.055	1465	1471	1492	rBV	1155042	1565548	90.78%	16.774%
8	11.079	1634	1639	1656	rBV	961439	1218352	70.64%	13.054%
9	12.018	1788	1793	1807	rBV	1302784	1607248	93.19%	17.220%

Sum of corrected areas: 9333408

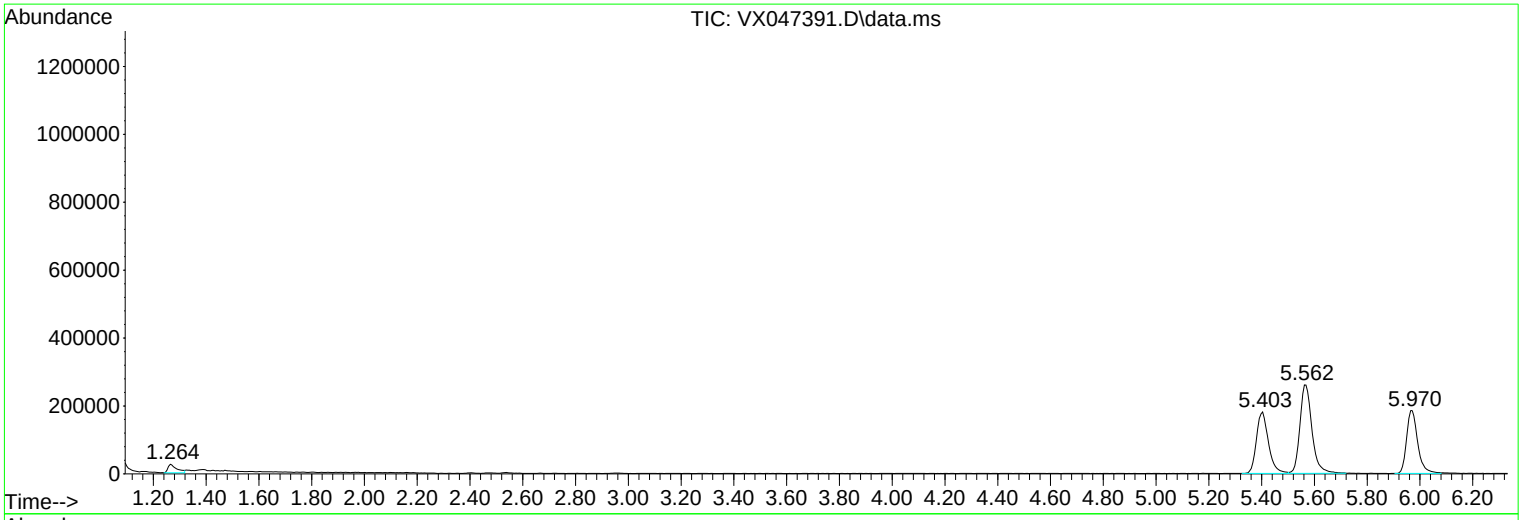
Sample Results: **VX047391.D**

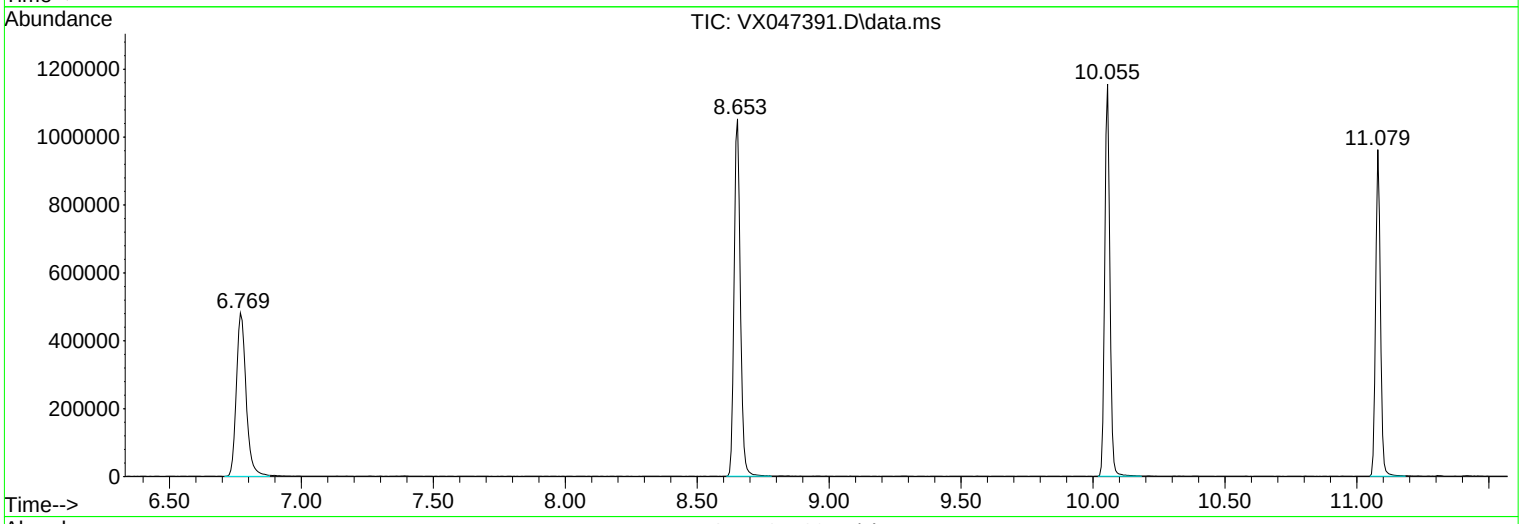
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047391.D
Acq On : 18 Aug 2025 18:27
Operator : JC/MD
Sample : Q2815-16
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

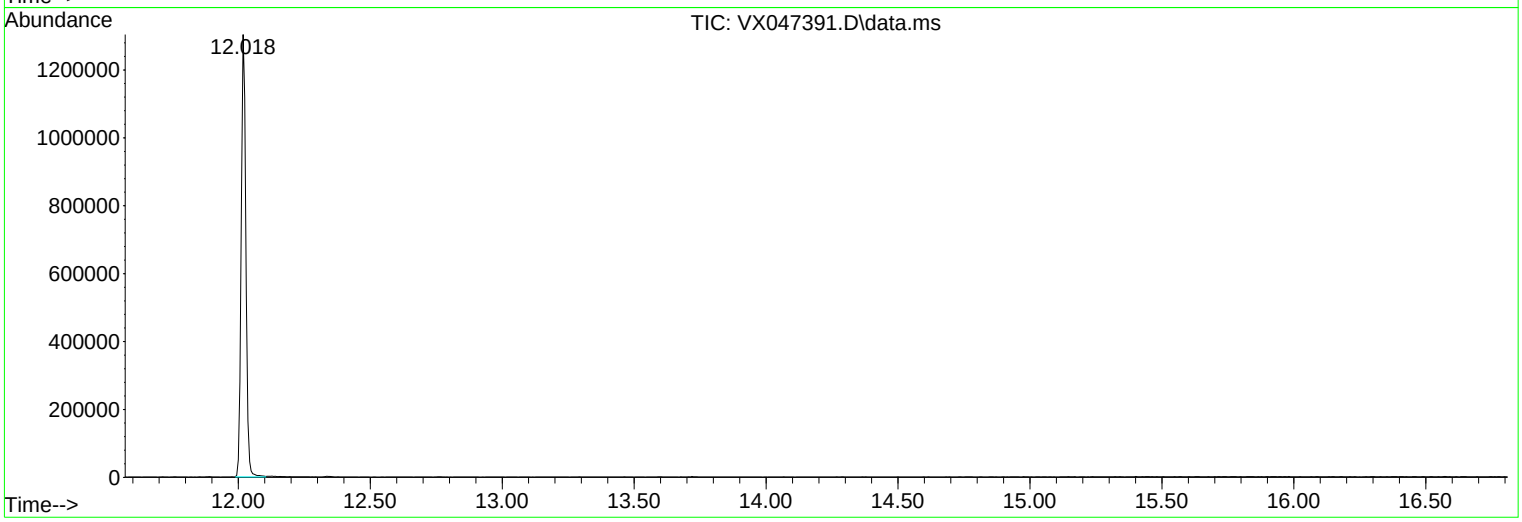
Instrument :
MSVOA_X
ClientSampleId :
TW-17M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047391.D
Acq On : 18 Aug 2025 18:27
Operator : JC/MD
Sample : Q2815-16
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047391.D
Acq On : 18 Aug 2025 18:27
Operator : JC/MD
Sample : Q2815-16
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-17M-SRE	SDG No.:	Q2815
Lab Sample ID:	Q2815-16RE	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
VX047407.D	1	08/19/25 13:20	VX081925

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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-17M-SRE	SDG No.:	Q2815
Lab Sample ID:	Q2815-16RE	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
VX047407.D	1	08/19/25 13:20	VX081925

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	54.4		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	53.0		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	59.0	*	85 - 114		118%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	215000	5.568				
540-36-3	1,4-Difluorobenzene	423000	6.769				
3114-55-4	Chlorobenzene-d5	414000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	214000	12.018				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-17M-SRE	SDG No.:	Q2815
Lab Sample ID:	Q2815-16RE	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
VX047407.D	1	08/19/25 13:20	VX081925

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\VX081925\
Data File : VX047407.D
Acq On : 19 Aug 2025 13:20
Operator : JC/MD
Sample : Q2815-16RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-SRE

Quant Time: Aug 20 01:25:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

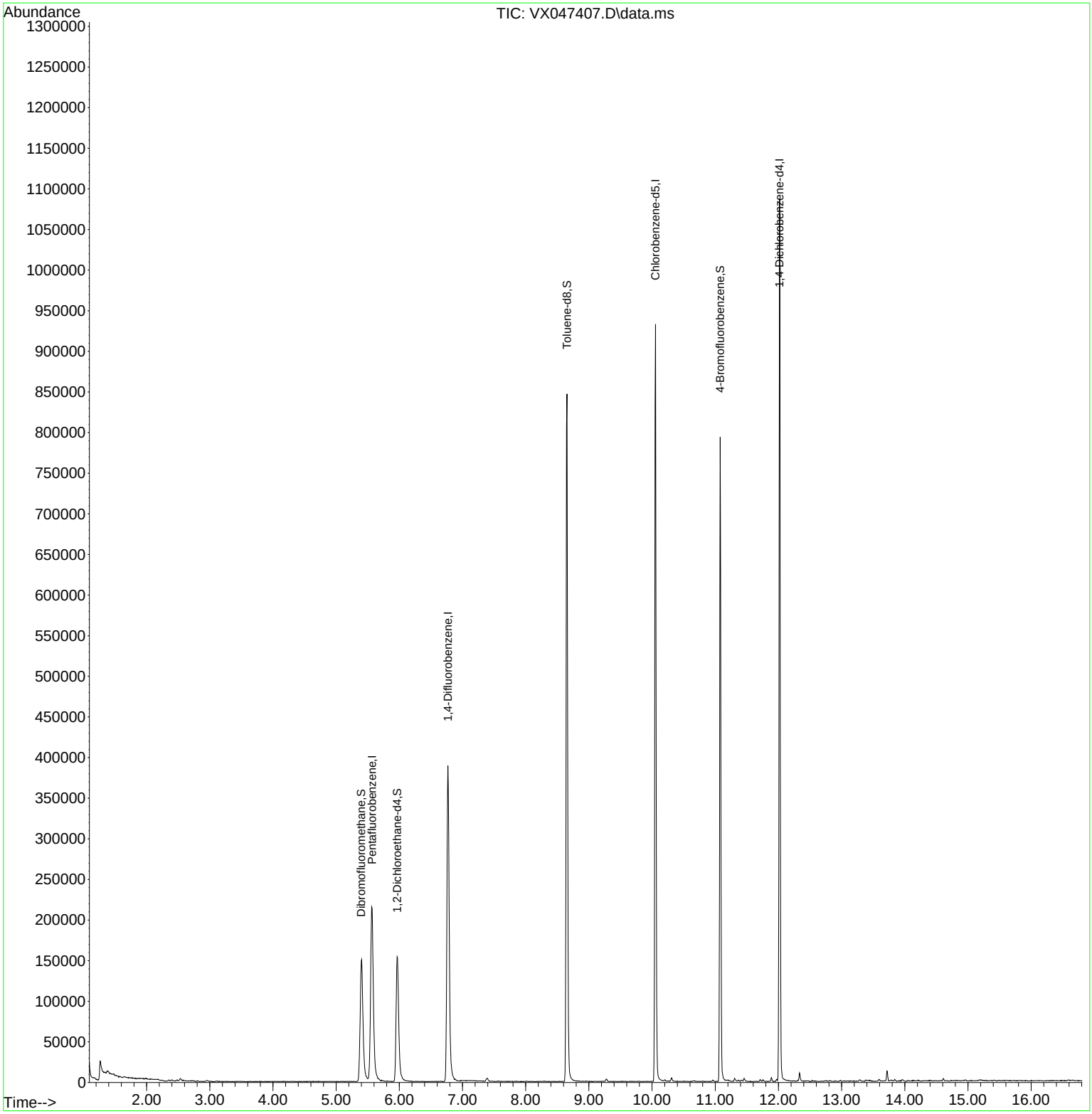
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	215007	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	423090	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	413847	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	213885	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	163703	54.403	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.800%			
35) Dibromofluoromethane	5.397	113	142384	51.853	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.700%			
50) Toluene-d8	8.653	98	520126	52.995	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.000%			
62) 4-Bromofluorobenzene	11.079	95	213718	59.009	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 118.020%			
Target Compounds						Qvalue

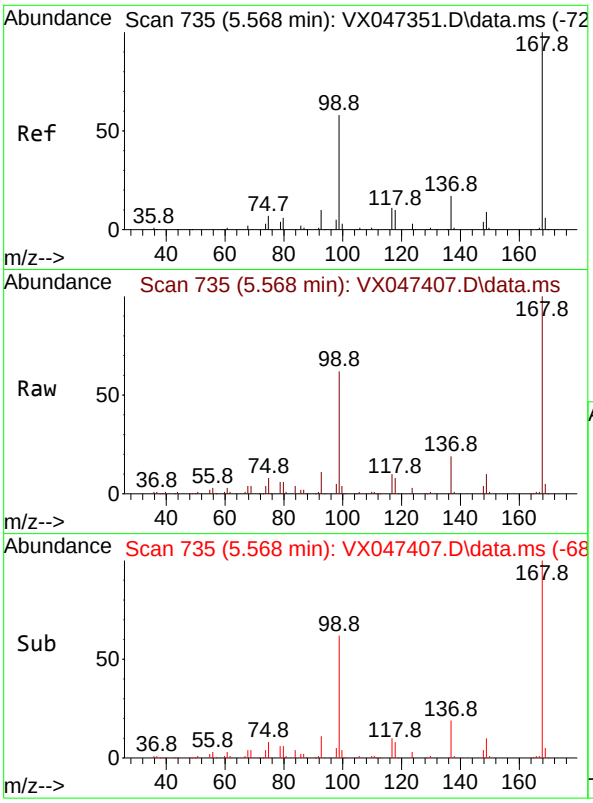
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047407.D
Acq On : 19 Aug 2025 13:20
Operator : JC/MD
Sample : Q2815-16RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-SRE

Quant Time: Aug 20 01:25:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



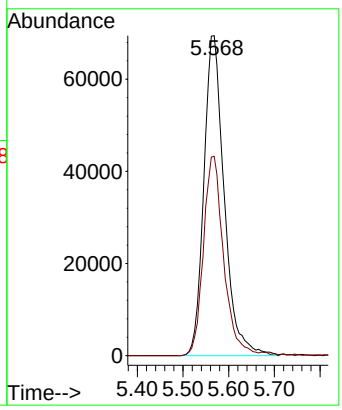


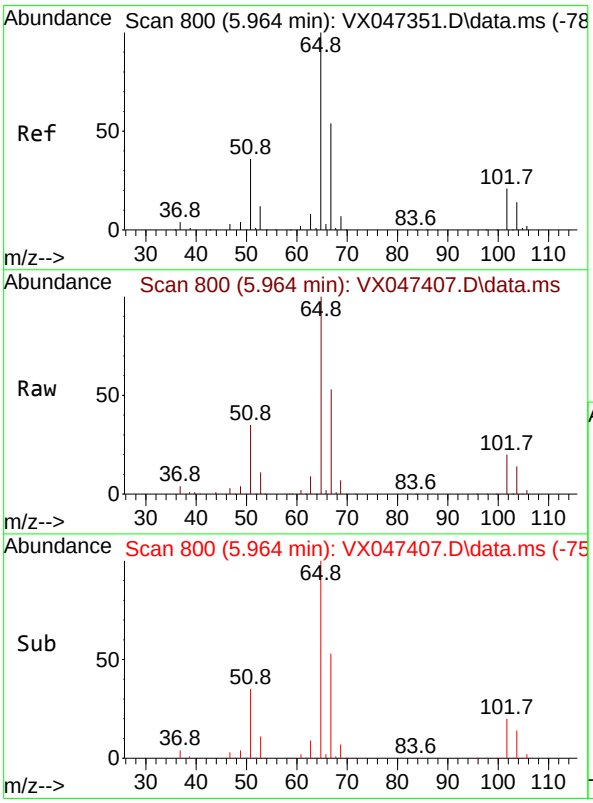
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047407.D
Acq: 19 Aug 2025 13:20

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-SRE

Tgt Ion:168 Resp: 215007

Ion	Ratio	Lower	Upper
168	100		
99	62.3	47.9	71.9

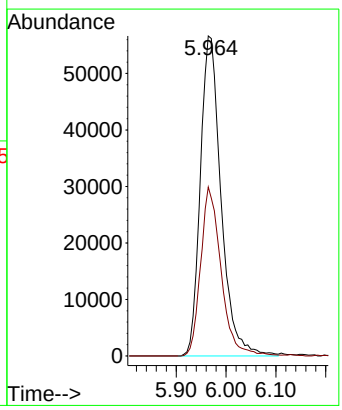


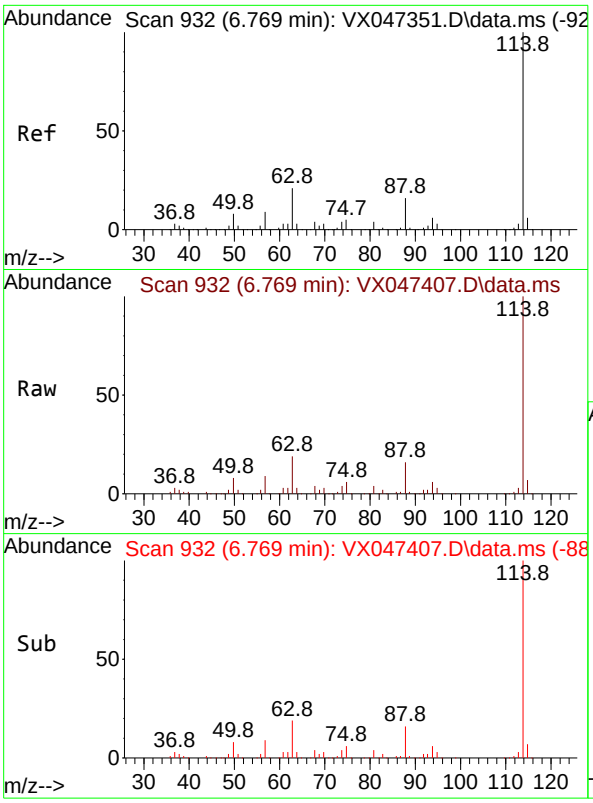


#33
1,2-Dichloroethane-d4
Concen: 54.403 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047407.D
Acq: 19 Aug 2025 13:20

Tgt Ion: 65 Resp: 163703

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	106.0



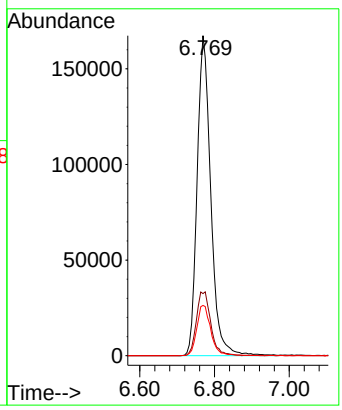


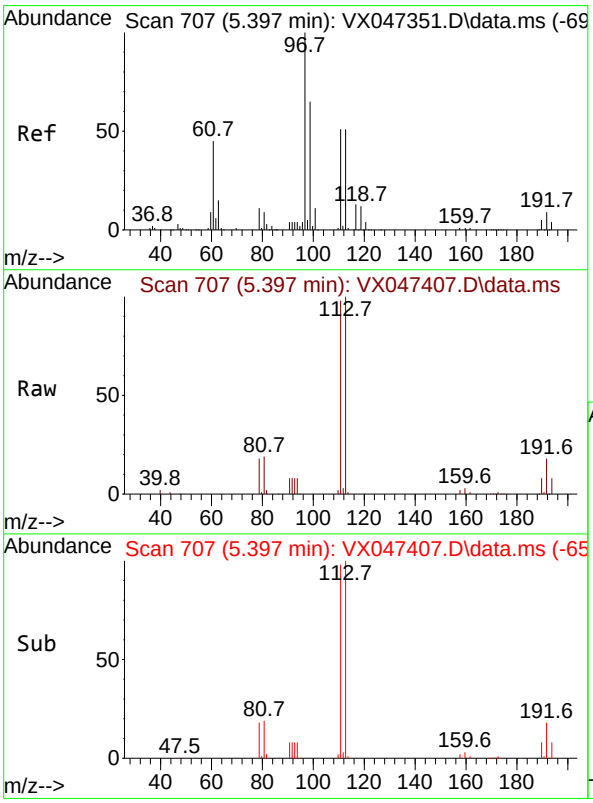
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047407.D
Acq: 19 Aug 2025 13:20

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-SRE

Tgt Ion:114 Resp: 423090

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	42.4
88	15.7	0.0	33.0

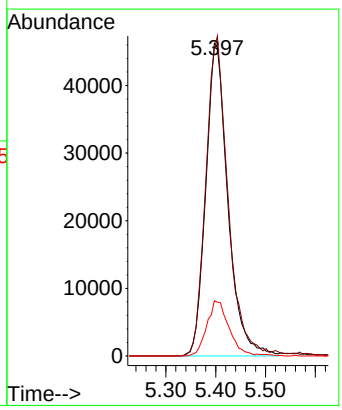


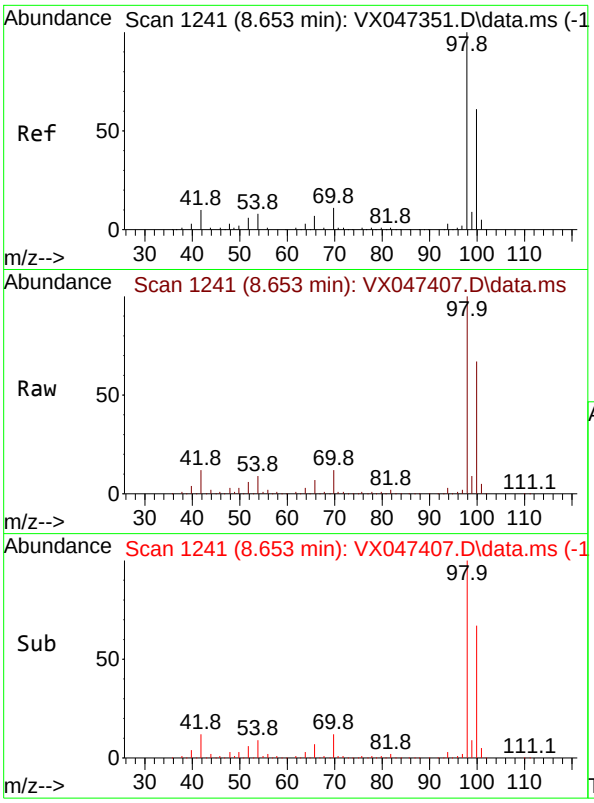


#35
Dibromofluoromethane
Concen: 51.853 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047407.D
Acq: 19 Aug 2025 13:20

Tgt Ion:113 Resp: 142384

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.4	122.2
192	17.9	14.1	21.1



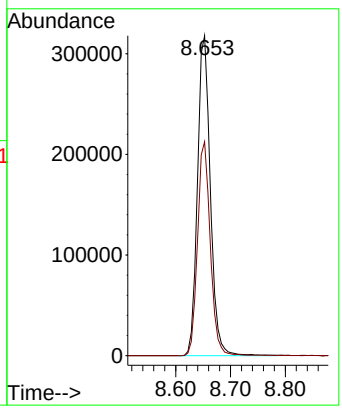


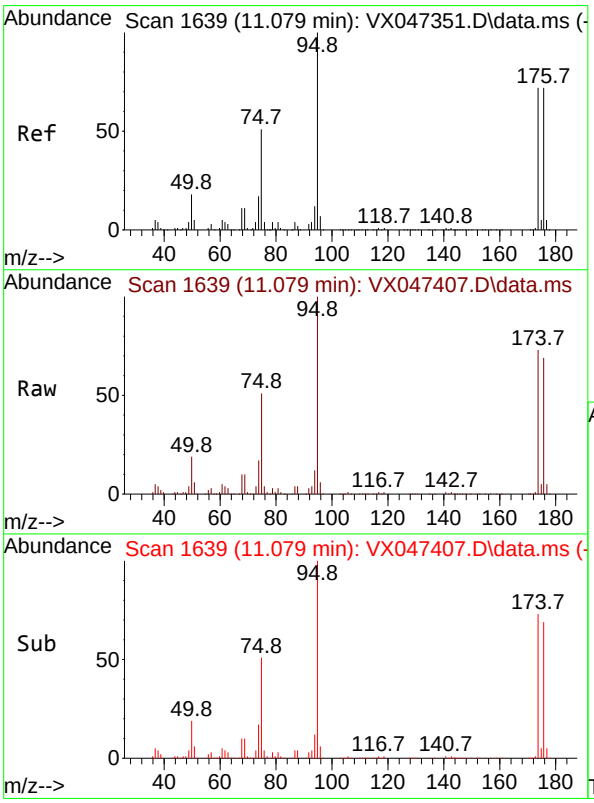
#50
Toluene-d8
Concen: 52.995 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047407.D
Acq: 19 Aug 2025 13:20

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-SRE

Tgt Ion: 98 Resp: 520126

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.9	80.9

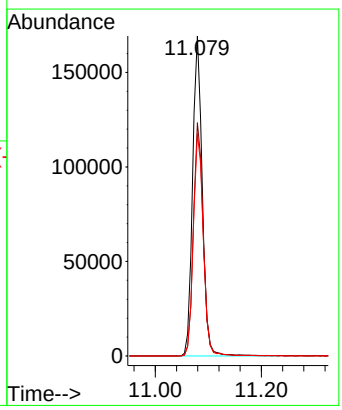


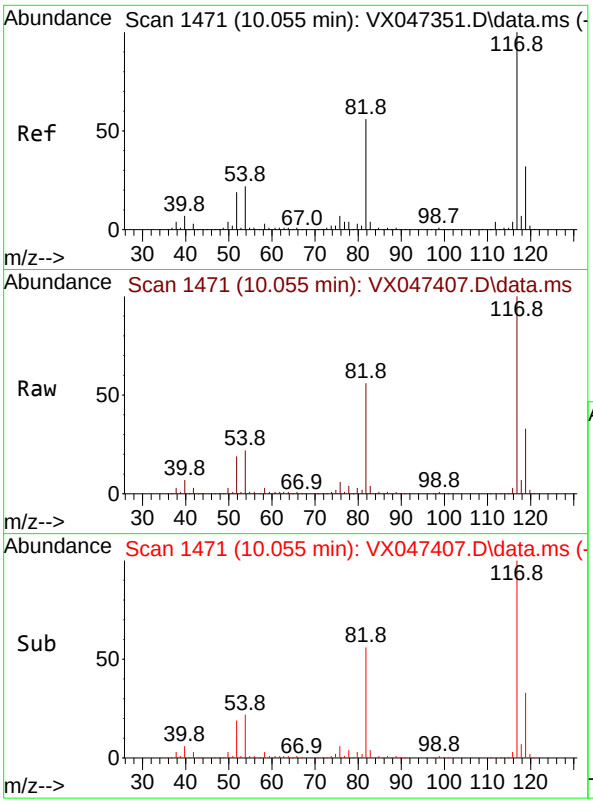


#62
4-Bromofluorobenzene
Concen: 59.009 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047407.D
Acq: 19 Aug 2025 13:20

Tgt Ion: 95 Resp: 213718

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	148.0
176	71.1	0.0	145.4



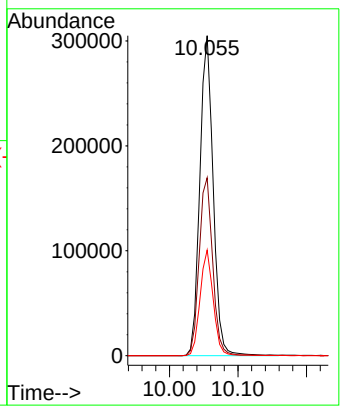


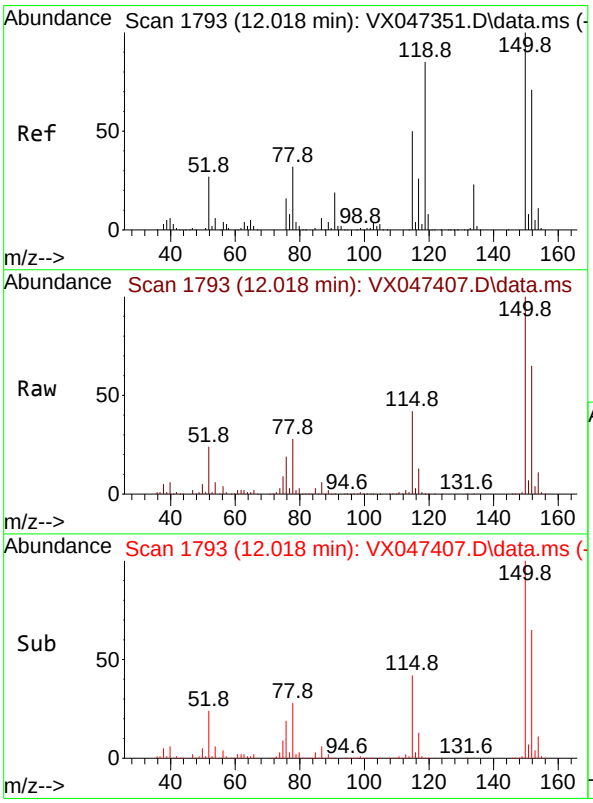
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047407.D
Acq: 19 Aug 2025 13:20

Instrument :
MSVOA_X
ClientSampleId :
TW-17M-SRE

Tgt Ion:117 Resp: 413847

Ion	Ratio	Lower	Upper
117	100		
82	55.6	45.0	67.4
119	33.0	25.8	38.8

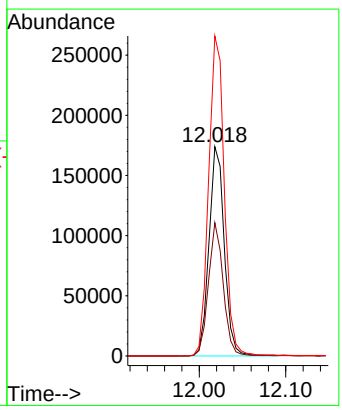




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047407.D
Acq: 19 Aug 2025 13:20

Tgt Ion:152 Resp: 213885

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.6	133.8
150	156.8	0.0	349.8



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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-84SB-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-17	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
VX047392.D	1	08/18/25 18:48	VX081825

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	5.60		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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-84SB-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-17	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
VX047392.D	1	08/18/25 18:48	VX081825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.1		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	49.3		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.1		85 - 114		110%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	215000	5.568				
540-36-3	1,4-Difluorobenzene	426000	6.769				
3114-55-4	Chlorobenzene-d5	427000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	221000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-84SB-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-17	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
VX047392.D	1	08/18/25 18:48	VX081825

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\VX081825\
Data File : VX047392.D
Acq On : 18 Aug 2025 18:48
Operator : JC/MD
Sample : Q2815-17
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-S

Quant Time: Aug 19 01:48:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

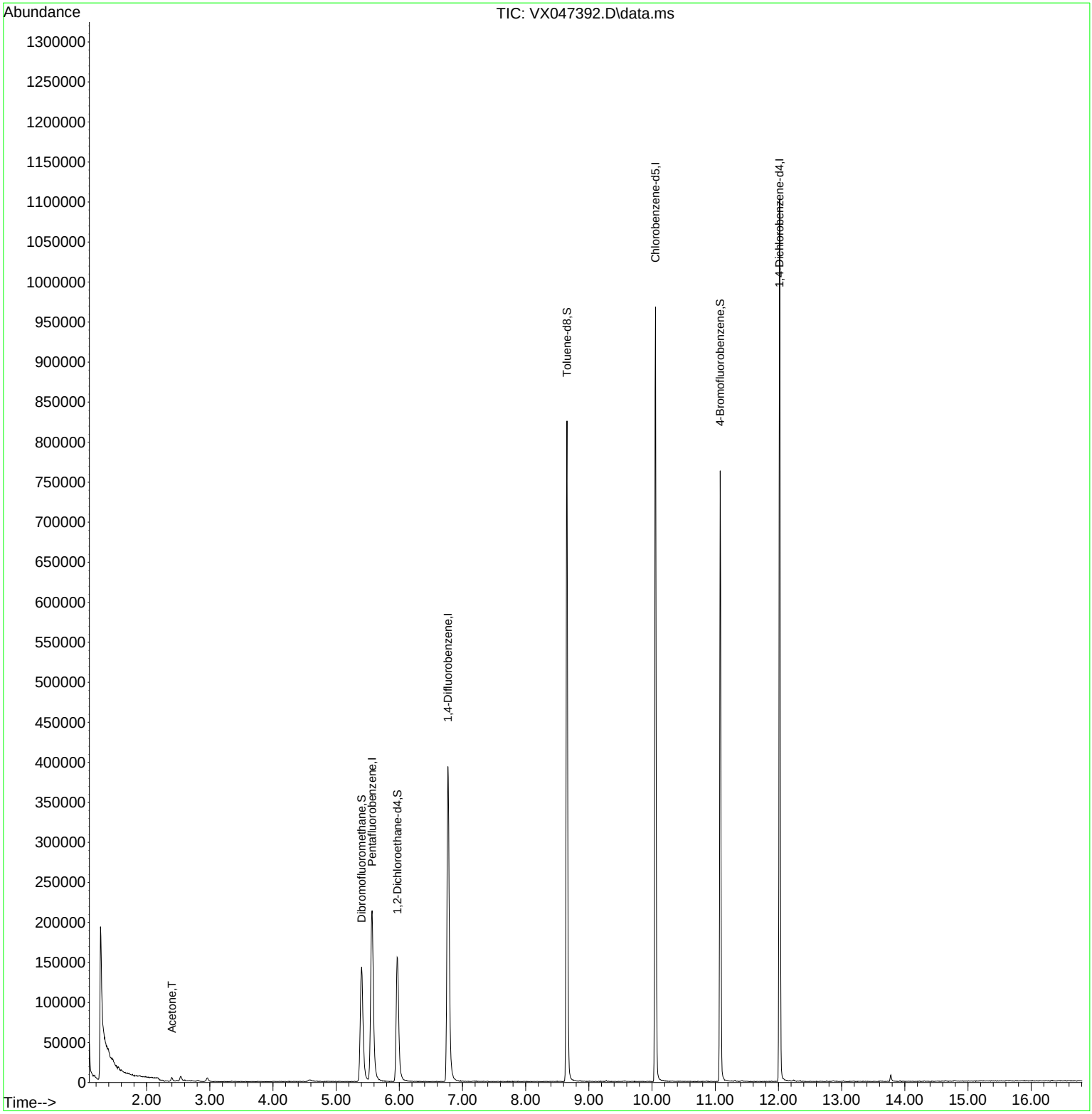
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	215102	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	425527	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	427339	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	220943	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	165827	55.084	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 110.160%			
35) Dibromofluoromethane	5.403	113	136245	49.334	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.660%			
50) Toluene-d8	8.653	98	486424	49.278	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.560%			
62) 4-Bromofluorobenzene	11.079	95	200744	55.110	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.220%			
Target Compounds						Qvalue
16) Acetone	2.398	43	6384	5.642	ug/l #	78

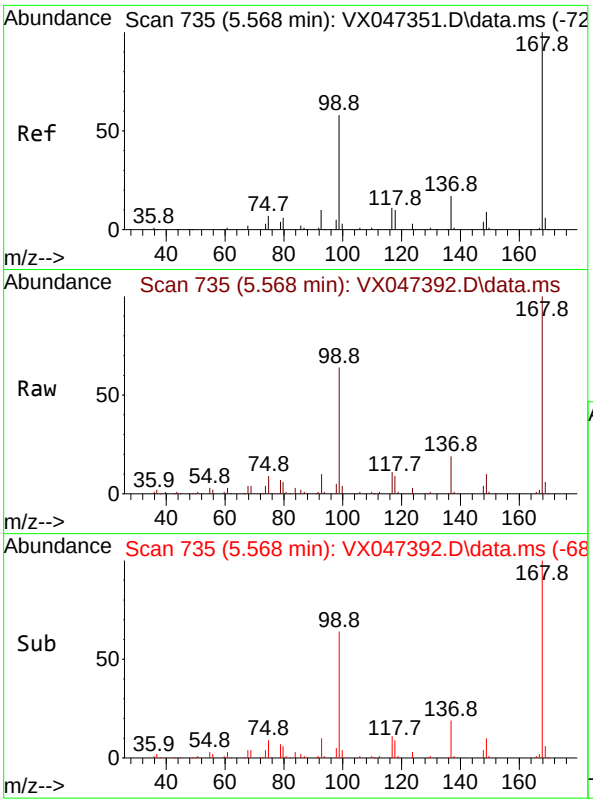
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047392.D
Acq On : 18 Aug 2025 18:48
Operator : JC/MD
Sample : Q2815-17
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-S

Quant Time: Aug 19 01:48:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



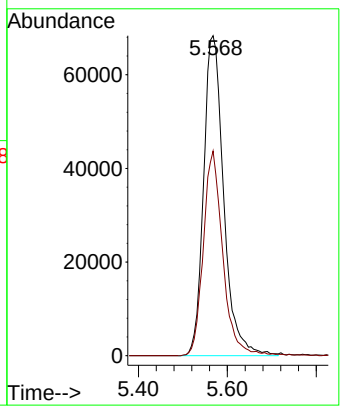


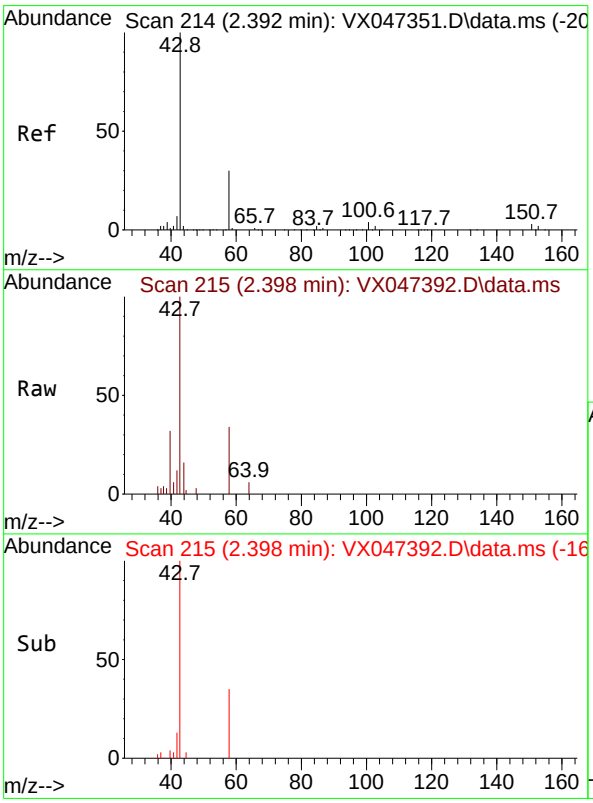
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047392.D
Acq: 18 Aug 2025 18:48

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-S

Tgt Ion:168 Resp: 215102

Ion	Ratio	Lower	Upper
168	100		
99	64.0	47.9	71.9

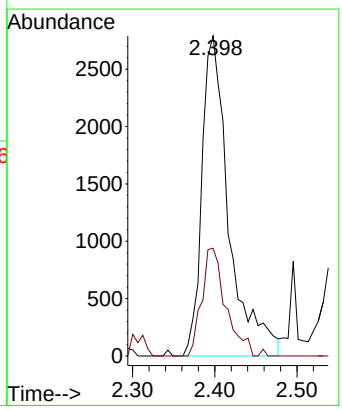


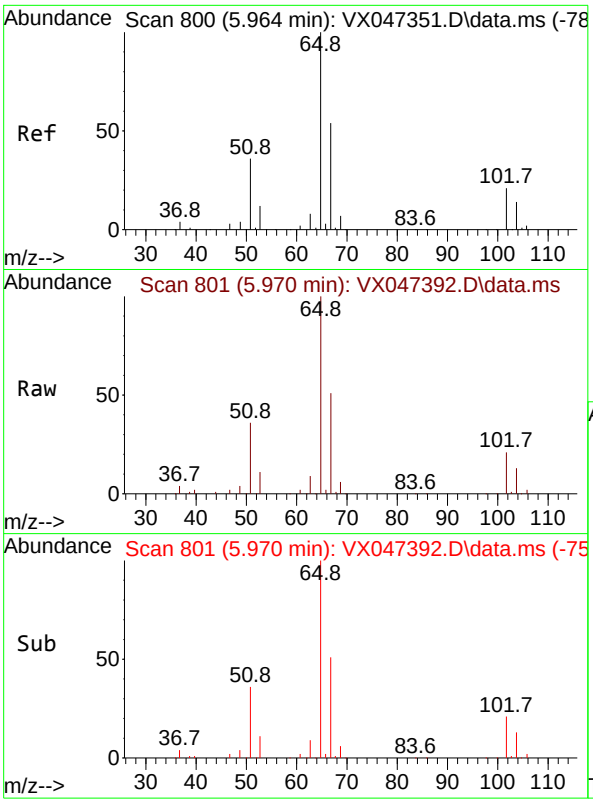


#16
Acetone
Concen: 5.642 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047392.D
Acq: 18 Aug 2025 18:48

Tgt Ion: 43 Resp: 6384

Ion	Ratio	Lower	Upper
43	100		
58	42.8	24.8	37.2#



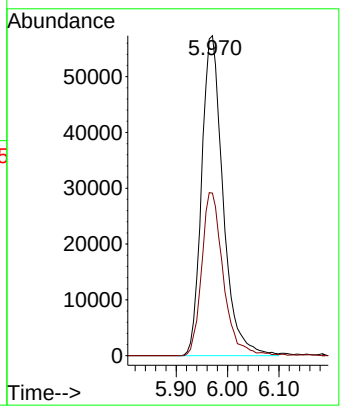


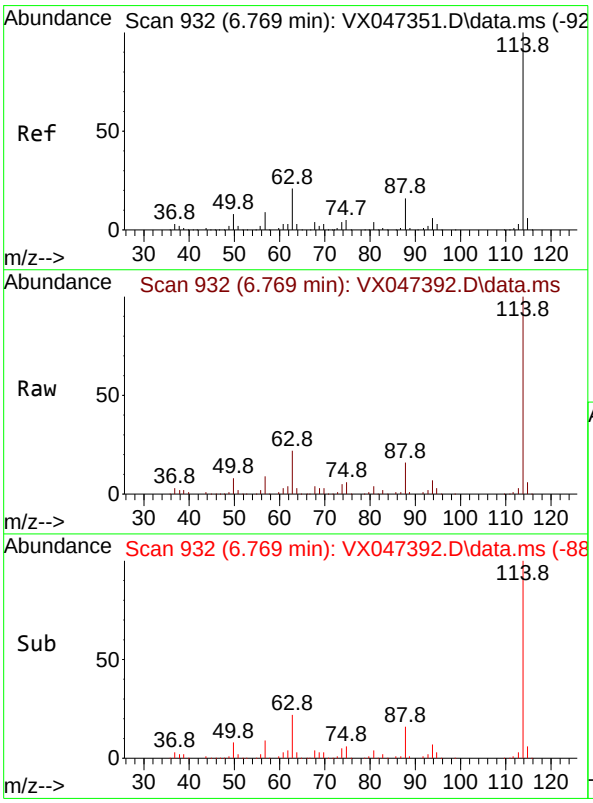
#33
1,2-Dichloroethane-d4
Concen: 55.084 ug/l
RT: 5.970 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047392.D
Acq: 18 Aug 2025 18:48

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-S

Tgt Ion: 65 Resp: 165827

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	106.0

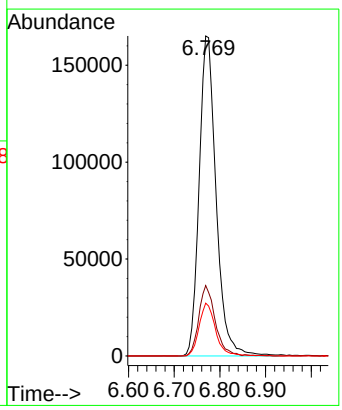


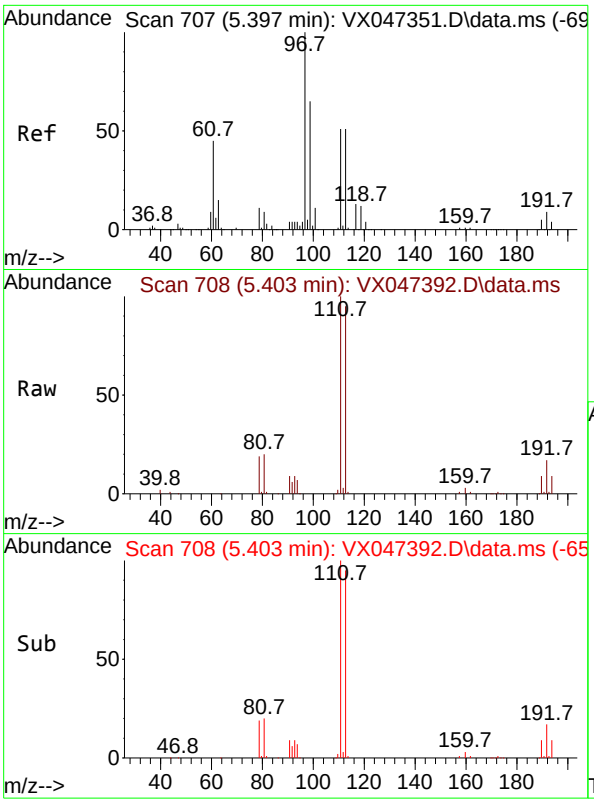


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047392.D
Acq: 18 Aug 2025 18:48

Tgt Ion:114 Resp: 425527

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	42.4
88	16.5	0.0	33.0



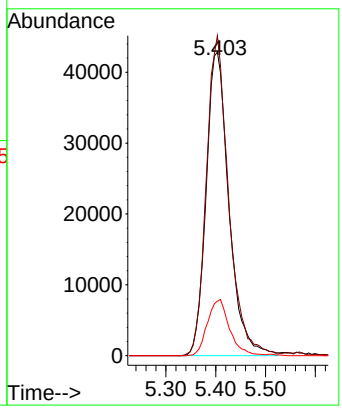


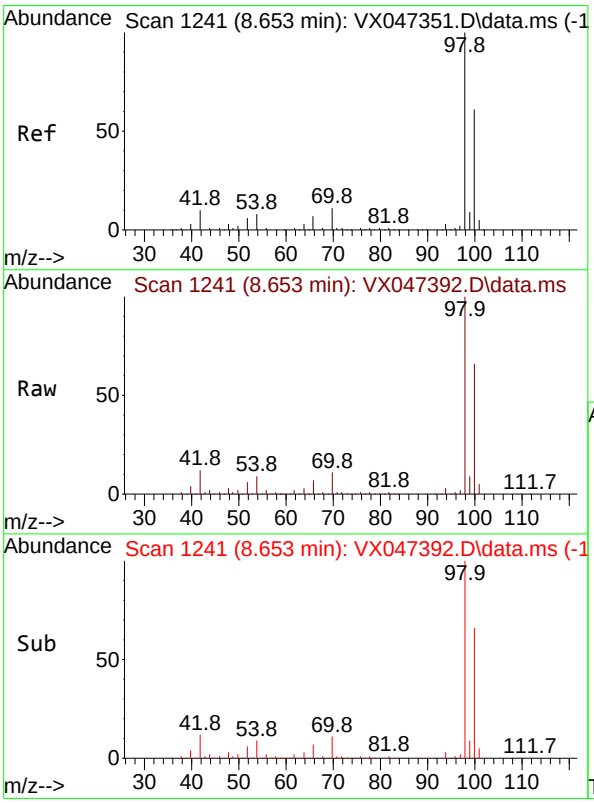
#35
Dibromofluoromethane
Concen: 49.334 ug/l
RT: 5.403 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047392.D
Acq: 18 Aug 2025 18:48

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-S

Tgt Ion:113 Resp: 136245

Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.4	122.2
192	18.0	14.1	21.1

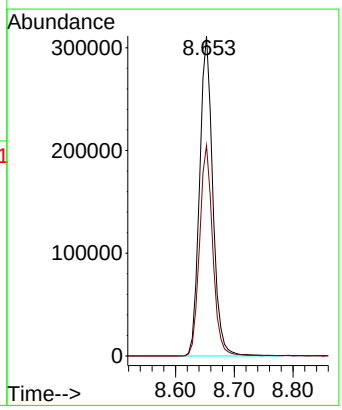


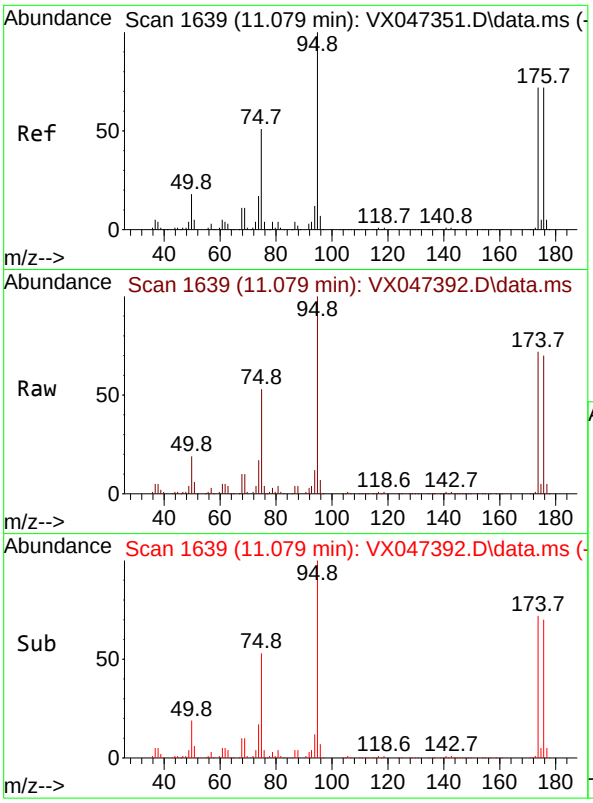


#50
Toluene-d8
Concen: 49.278 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047392.D
Acq: 18 Aug 2025 18:48

Tgt Ion: 98 Resp: 486424

Ion	Ratio	Lower	Upper
98	100		
100	65.4	53.9	80.9



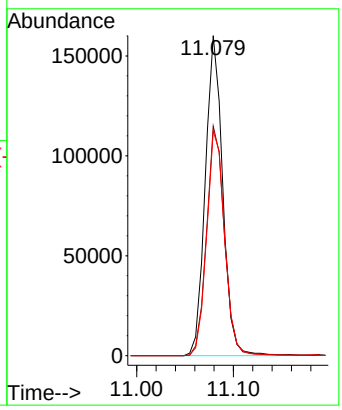


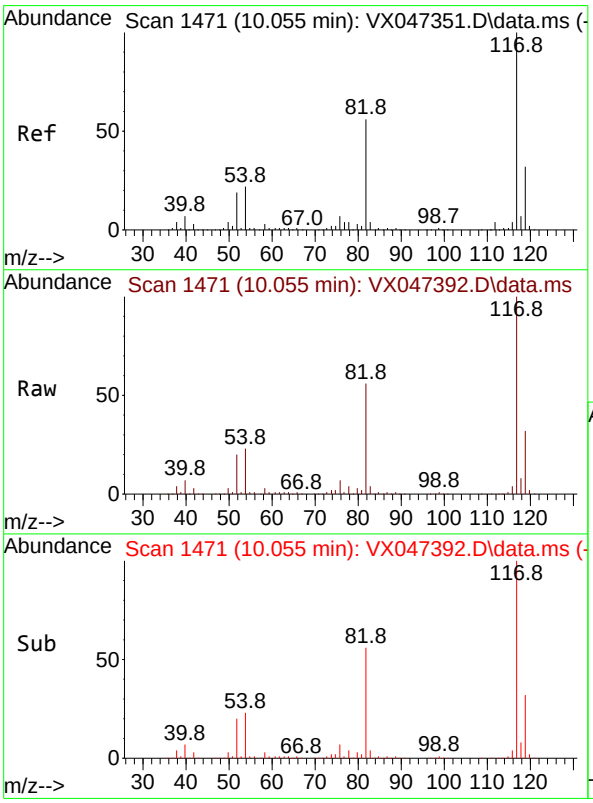
#62
4-Bromofluorobenzene
Concen: 55.110 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047392.D
Acq: 18 Aug 2025 18:48

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-S

Tgt Ion: 95 Resp: 200744

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	148.0
176	72.5	0.0	145.4

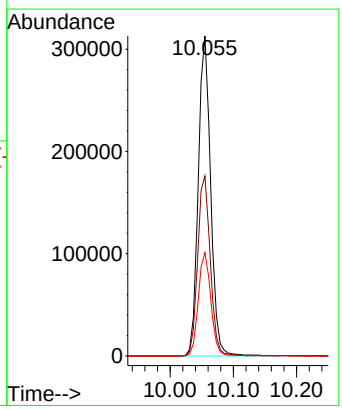


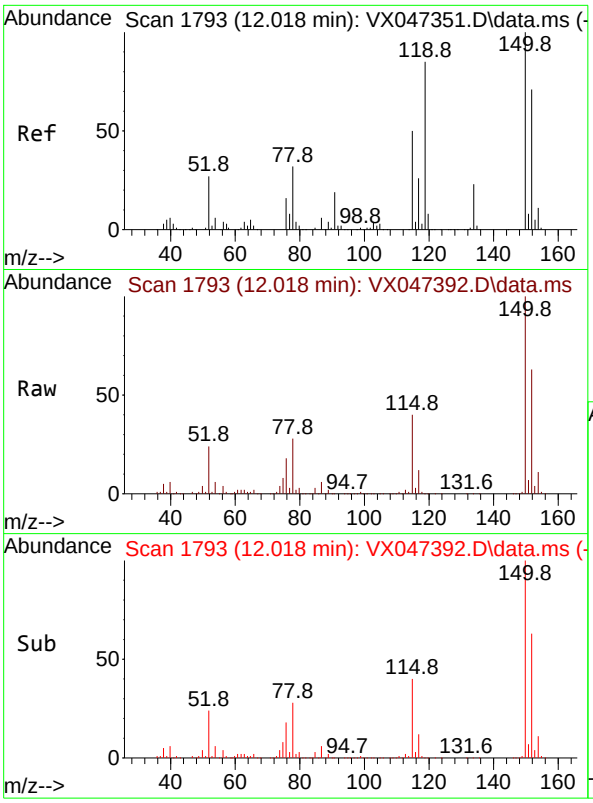


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047392.D
Acq: 18 Aug 2025 18:48

Tgt Ion:117 Resp: 427339

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.0	67.4
119	32.3	25.8	38.8



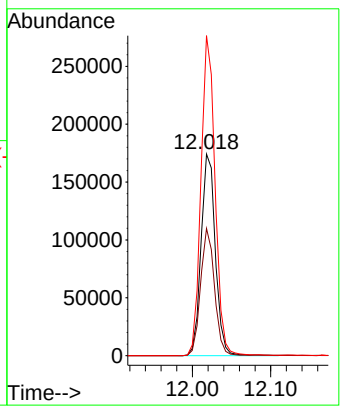


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047392.D
Acq: 18 Aug 2025 18:48

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-S

Tgt Ion:152 Resp: 220943

Ion	Ratio	Lower	Upper
152	100		
115	61.6	44.6	133.8
150	156.4	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047392.D
Acq On : 18 Aug 2025 18:48
Operator : JC/MD
Sample : Q2815-17
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-S

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047392.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.270	25	30	45	rBV	190546	564203	41.35%	6.962%
2	5.403	696	708	725	rBV2	143334	451655	33.10%	5.573%
3	5.568	725	735	753	rVB	211706	647306	47.44%	7.988%
4	5.964	790	800	822	rBV	155164	452537	33.16%	5.584%
5	6.769	920	932	957	rBV	393487	1011690	74.14%	12.484%
6	8.653	1234	1241	1257	rBV	825048	1301783	95.40%	16.064%
7	10.055	1465	1471	1487	rBV	967581	1345265	98.58%	16.600%
8	11.079	1634	1639	1650	rBV	762758	964943	70.71%	11.907%
9	12.018	1788	1793	1802	rBV	1102517	1364590	100.00%	16.839%

Sum of corrected areas: 8103972

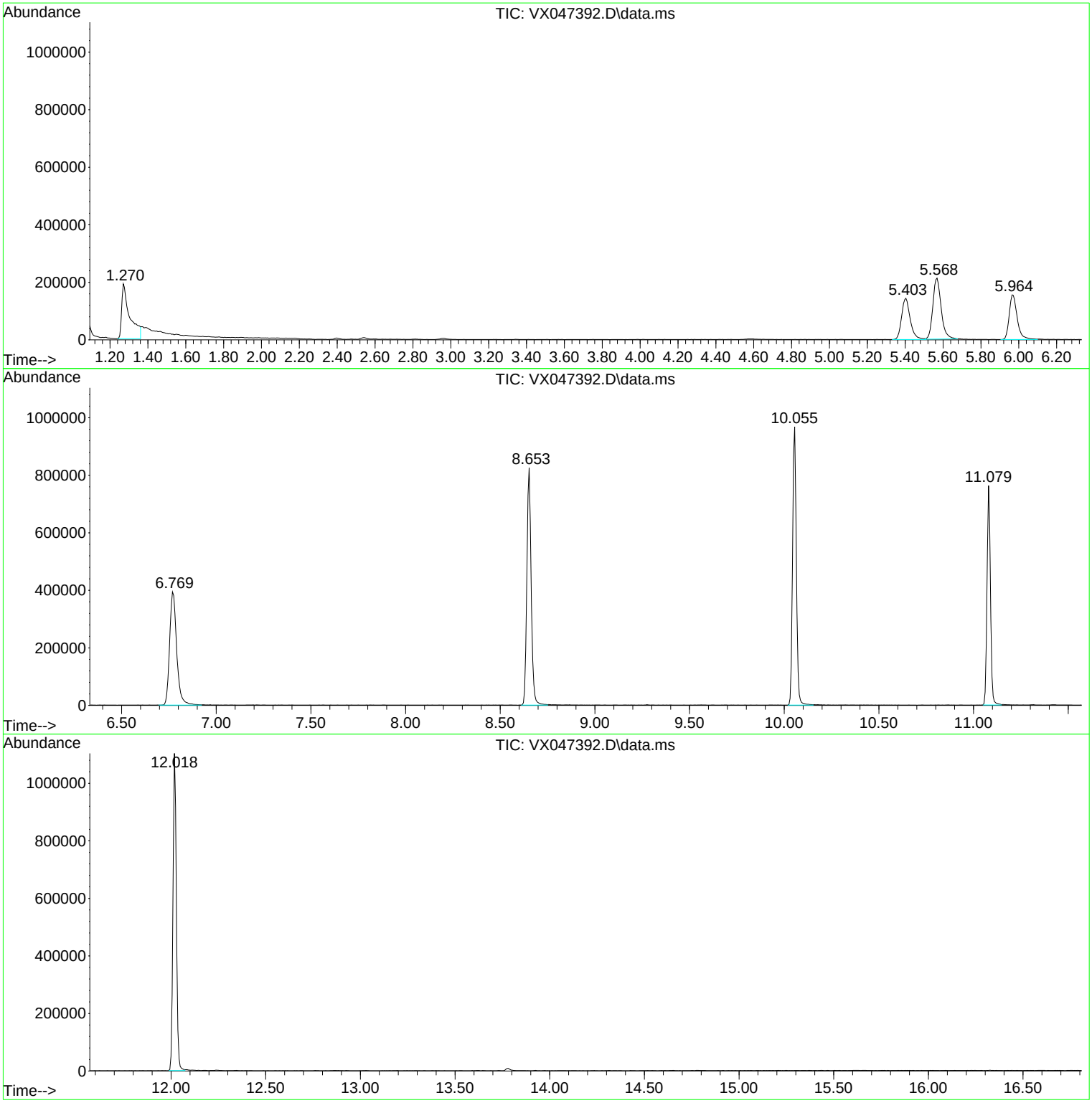
Sample Results: **VX047392.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047392.D
Acq On : 18 Aug 2025 18:48
Operator : JC/MD
Sample : Q2815-17
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047392.D
Acq On : 18 Aug 2025 18:48
Operator : JC/MD
Sample : Q2815-17
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047392.D
Acq On : 18 Aug 2025 18:48
Operator : JC/MD
Sample : Q2815-17
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-84SB-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-18	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
VX047419.D	1	08/19/25 17:39	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	4.80	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-84SB-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-18	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
VX047419.D	1	08/19/25 17:39	VX081925

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	57.3		81 - 118		115%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	51.1		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.1		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	258000	5.568				
540-36-3	1,4-Difluorobenzene	524000	6.769				
3114-55-4	Chlorobenzene-d5	526000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	265000	12.018				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-84SB-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-18	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
VX047419.D	1	08/19/25 17:39	VX081925

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\VX081925\
Data File : VX047419.D
Acq On : 19 Aug 2025 17:39
Operator : JC/MD
Sample : Q2815-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-W

Quant Time: Aug 20 01:30:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

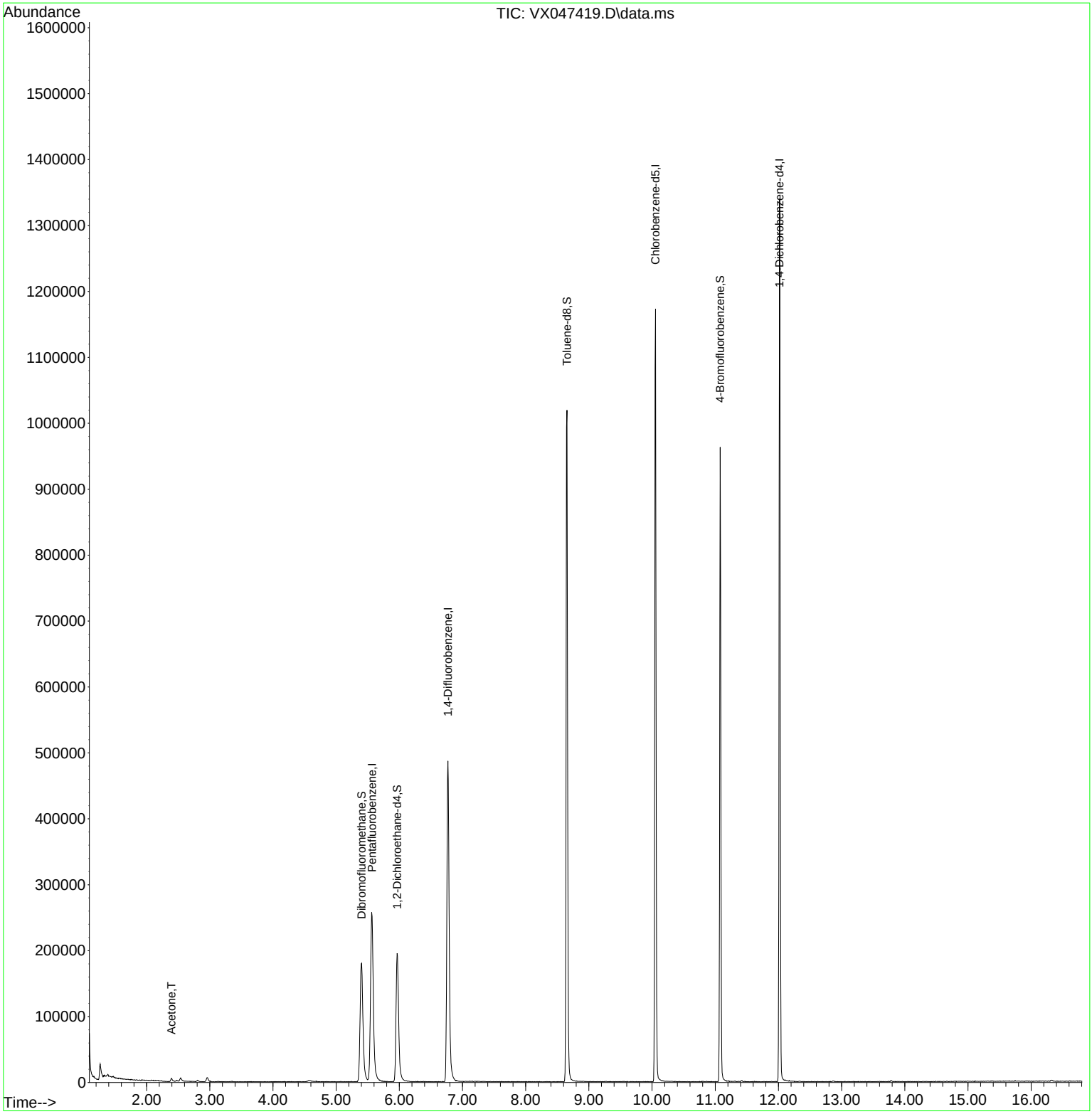
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	257962	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	524123	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	526082	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	264563	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	206988	57.333	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 114.660%			
35) Dibromofluoromethane	5.404	113	174696	51.357	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.720%			
50) Toluene-d8	8.653	98	621257	51.098	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.200%			
62) 4-Bromofluorobenzene	11.079	95	251572	56.071	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 112.140%			
Target Compounds						Qvalue
16) Acetone	2.392	43	6455	4.757	ug/l	95

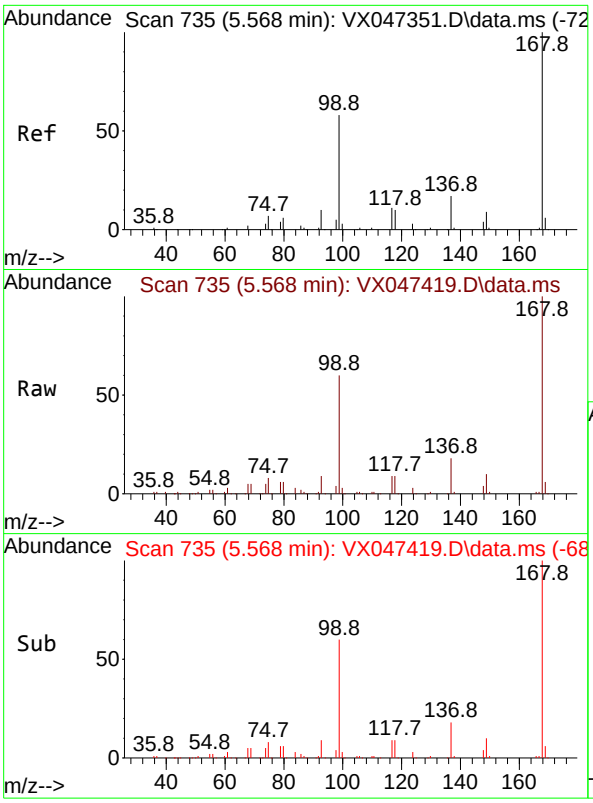
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047419.D
Acq On : 19 Aug 2025 17:39
Operator : JC/MD
Sample : Q2815-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-W

Quant Time: Aug 20 01:30:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



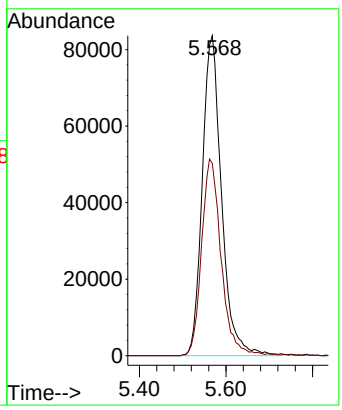


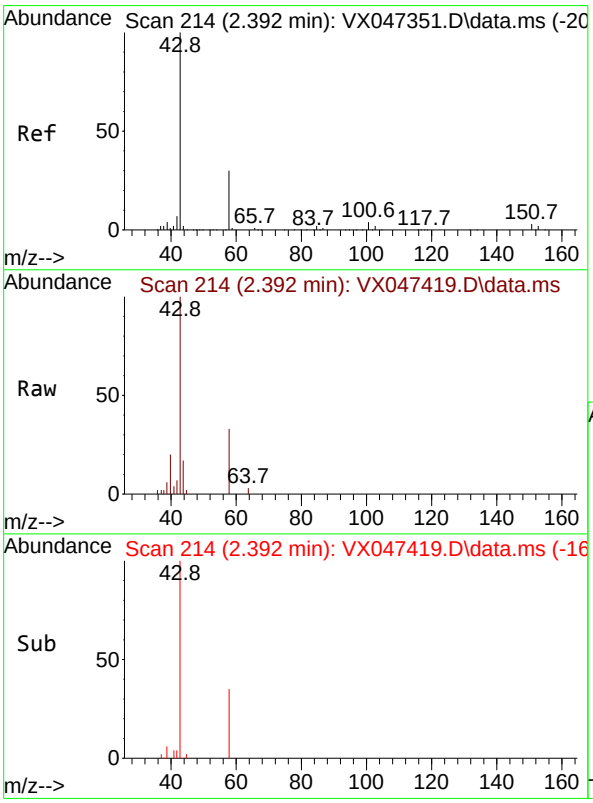
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047419.D
Acq: 19 Aug 2025 17:39

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-W

Tgt Ion:168 Resp: 257962

Ion	Ratio	Lower	Upper
168	100		
99	60.1	47.9	71.9

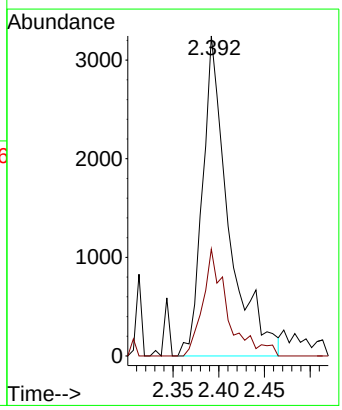


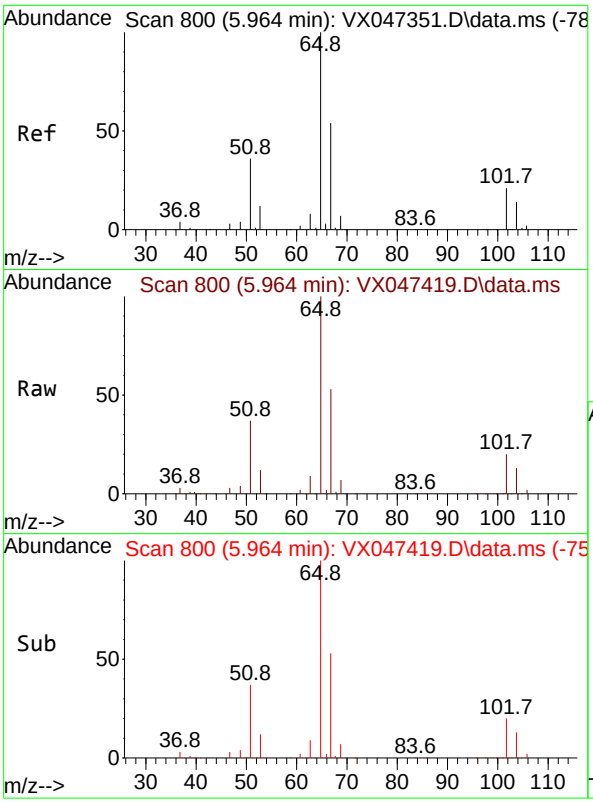


#16
Acetone
Concen: 4.757 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047419.D
Acq: 19 Aug 2025 17:39

Tgt Ion: 43 Resp: 6455

Ion	Ratio	Lower	Upper
43	100		
58	28.5	24.8	37.2



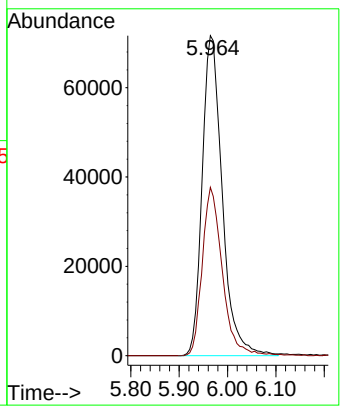


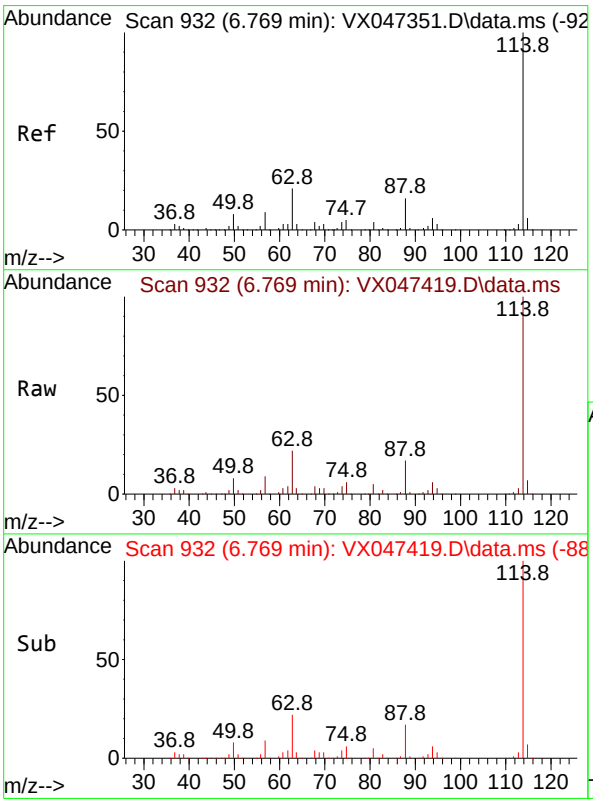
#33
1,2-Dichloroethane-d4
Concen: 57.333 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047419.D
Acq: 19 Aug 2025 17:39

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-W

Tgt Ion: 65 Resp: 206988

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	106.0

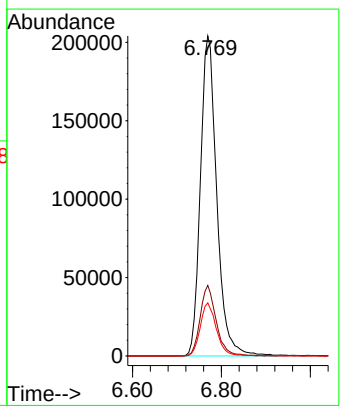


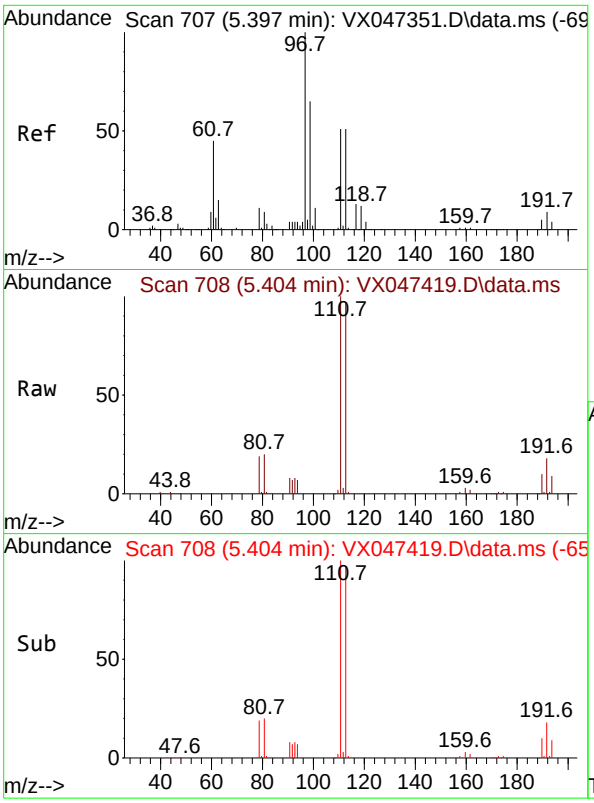


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047419.D
Acq: 19 Aug 2025 17:39

Tgt Ion:114 Resp: 524123

Ion	Ratio	Lower	Upper
114	100		
63	25.1	0.0	42.4
88	16.6	0.0	33.0



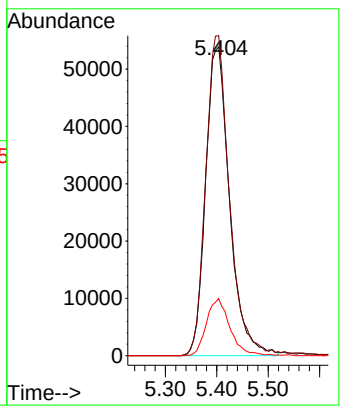


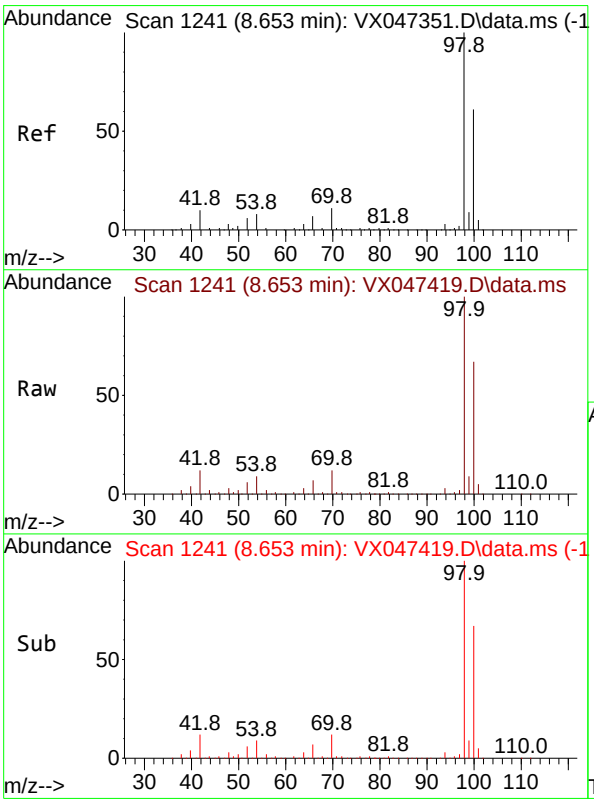
#35
Dibromofluoromethane
Concen: 51.357 ug/l
RT: 5.404 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047419.D
Acq: 19 Aug 2025 17:39

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-W

Tgt Ion:113 Resp: 174696

Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.4	122.2
192	18.0	14.1	21.1

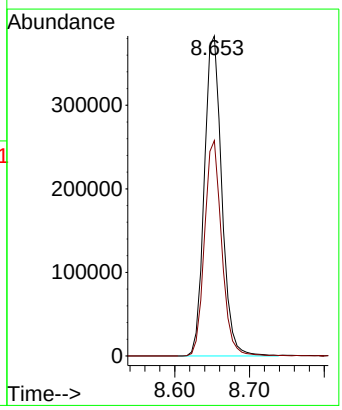


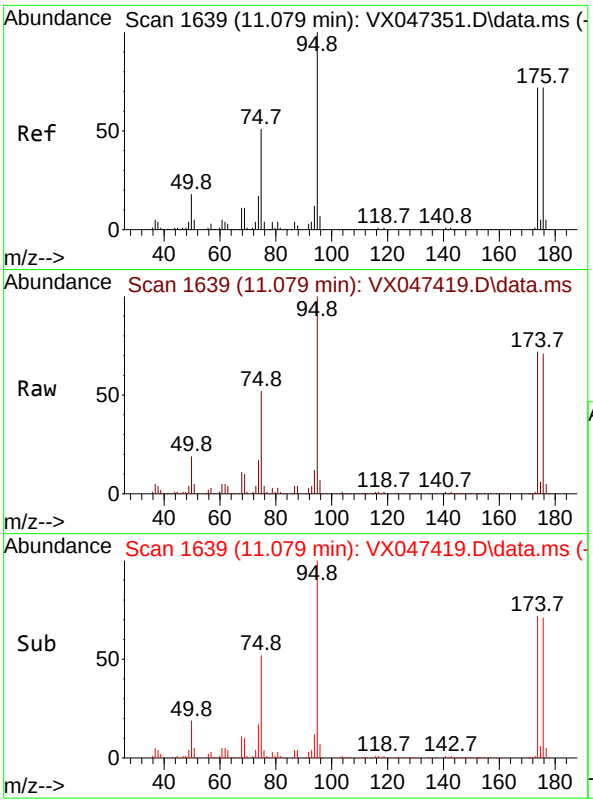


#50
Toluene-d8
Concen: 51.098 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047419.D
Acq: 19 Aug 2025 17:39

Tgt Ion: 98 Resp: 621257

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.9	80.9



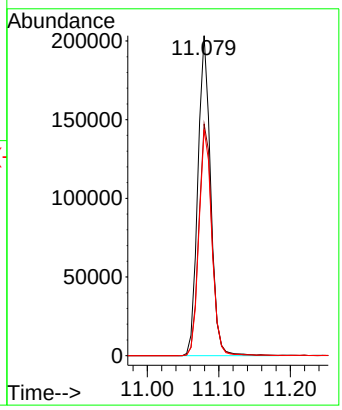


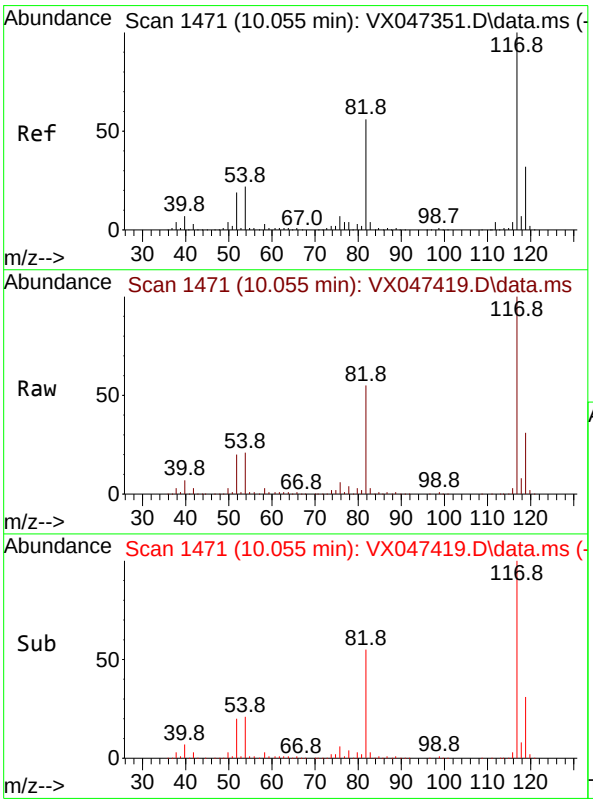
#62
4-Bromofluorobenzene
Concen: 56.071 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047419.D
Acq: 19 Aug 2025 17:39

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-W

Tgt Ion: 95 Resp: 251572

Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	148.0
176	71.5	0.0	145.4

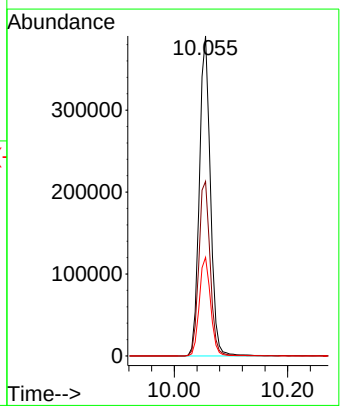


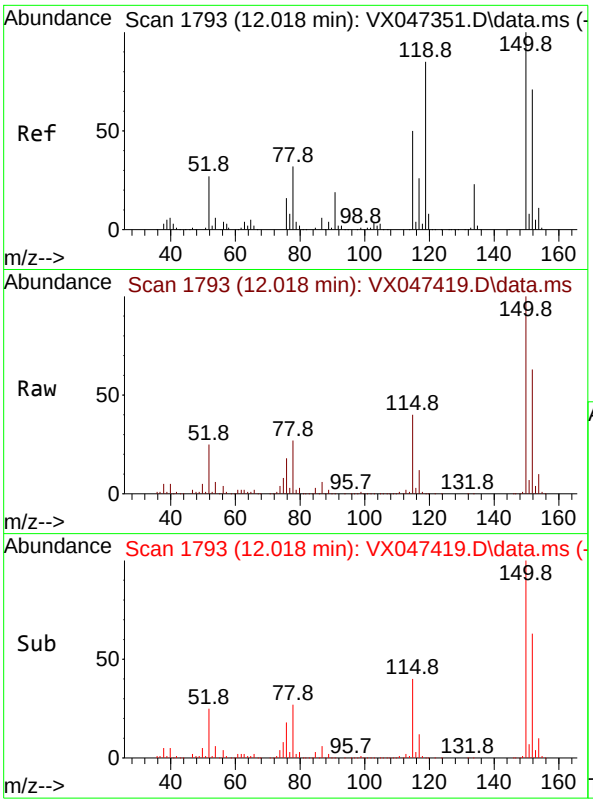


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047419.D
Acq: 19 Aug 2025 17:39

Tgt Ion:117 Resp: 526082

Ion	Ratio	Lower	Upper
117	100		
82	54.6	45.0	67.4
119	30.8	25.8	38.8



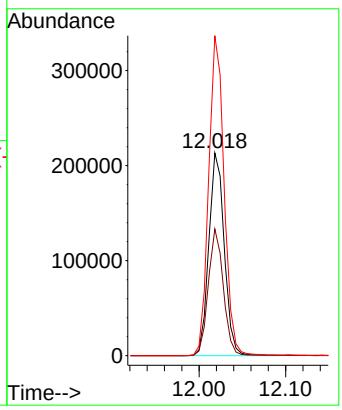


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047419.D
Acq: 19 Aug 2025 17:39

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-W

Tgt Ion:152 Resp: 264563

Ion	Ratio	Lower	Upper
152	100		
115	61.2	44.6	133.8
150	158.2	0.0	349.8



Sample Results: **VX047419.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047419.D
Acq On : 19 Aug 2025 17:39
Operator : JC/MD
Sample : Q2815-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-W

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047419.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	25	29	36	rBV	23594	47267	2.83%	0.505%
2	5.404	697	708	723	rBV2	179549	573815	34.34%	6.135%
3	5.562	723	734	754	rVB	255224	787721	47.14%	8.422%
4	5.964	791	800	821	rBV	194714	563034	33.70%	6.020%
5	6.769	922	932	953	rBV	486574	1245035	74.51%	13.312%
6	8.653	1232	1241	1258	rBV	1018759	1670970	100.00%	17.866%
7	10.055	1465	1471	1488	rBV	1172010	1622212	97.08%	17.345%
8	11.079	1634	1639	1655	rBV	962128	1205758	72.16%	12.892%
9	12.018	1788	1793	1806	rBV	1338892	1636931	97.96%	17.502%

Sum of corrected areas: 9352743

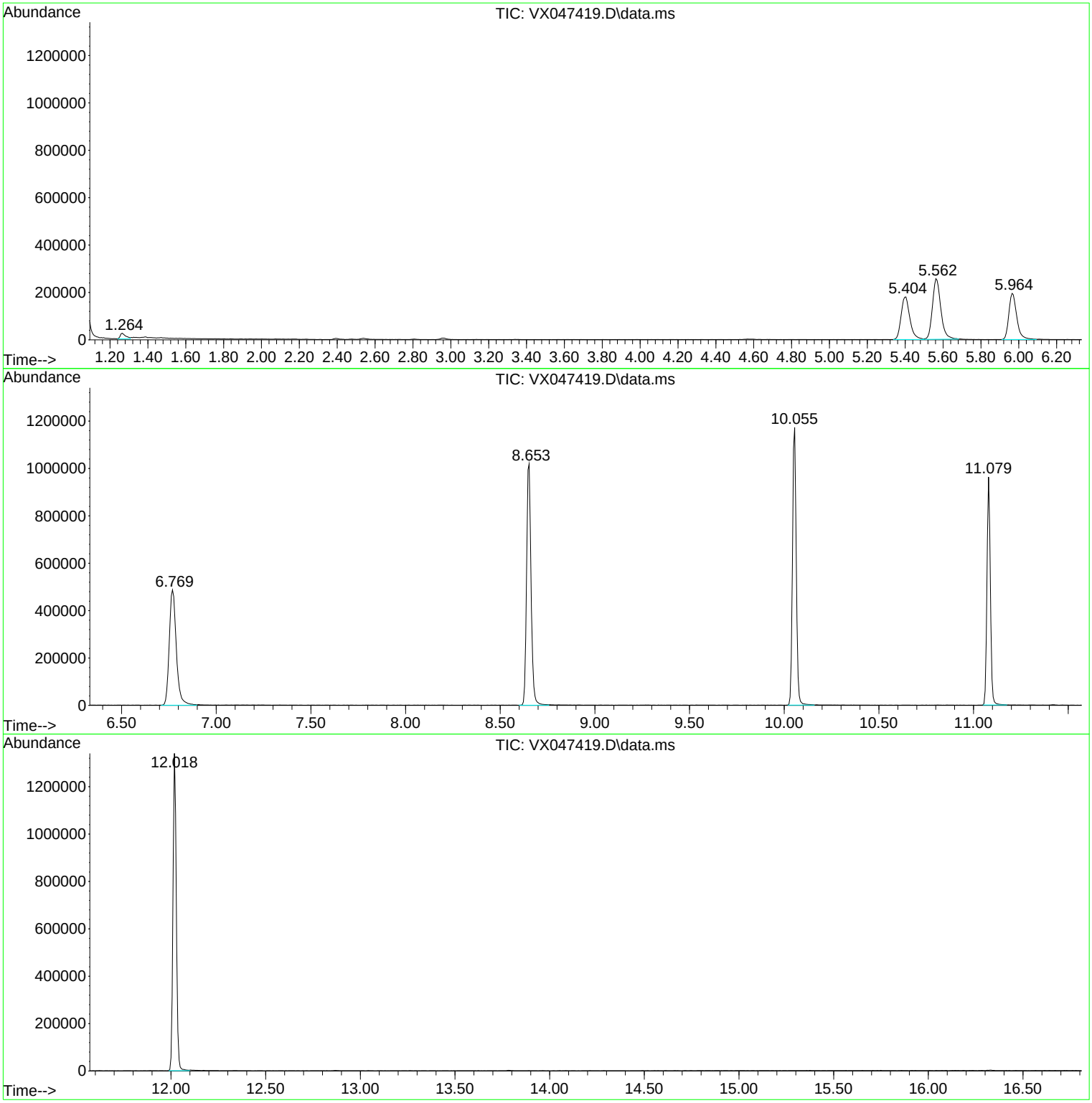
Sample Results: **VX047419.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047419.D
Acq On : 19 Aug 2025 17:39
Operator : JC/MD
Sample : Q2815-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047419.D
Acq On : 19 Aug 2025 17:39
Operator : JC/MD
Sample : Q2815-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081925\
Data File : VX047419.D
Acq On : 19 Aug 2025 17:39
Operator : JC/MD
Sample : Q2815-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-84SB-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	DUP	SDG No.:	Q2815
Lab Sample ID:	Q2815-19	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
VX047420.D	1	08/19/25 18:00	VX081925

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	5.70		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
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	DUP	SDG No.:	Q2815
Lab Sample ID:	Q2815-19	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
VX047420.D	1	08/19/25 18:00	VX081925

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	57.3		81 - 118		115%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	49.7		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.9		85 - 114		114%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	216000	5.562				
540-36-3	1,4-Difluorobenzene	430000	6.769				
3114-55-4	Chlorobenzene-d5	432000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	229000	12.018				

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	DUP	SDG No.:	Q2815
Lab Sample ID:	Q2815-19	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
VX047420.D	1	08/19/25 18:00	VX081925

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\VX081925\
Data File : VX047420.D
Acq On : 19 Aug 2025 18:00
Operator : JC/MD
Sample : Q2815-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP

Quant Time: Aug 20 01:30:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

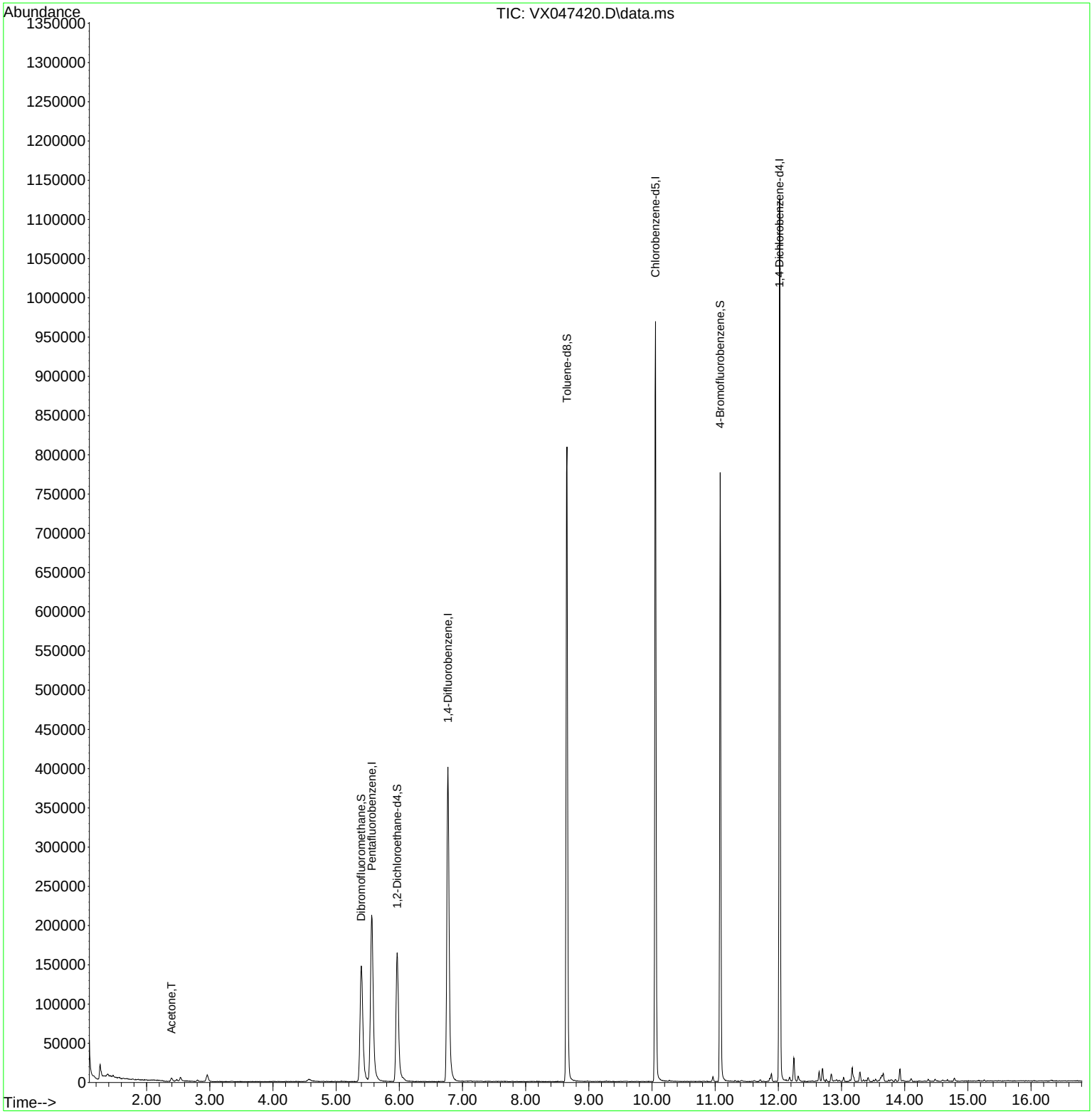
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	215558	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	430064	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	432045	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	228843	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	172997	57.345	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 114.680%			
35) Dibromofluoromethane	5.397	113	140913	50.486	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.980%			
50) Toluene-d8	8.653	98	496027	49.720	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.440%			
62) 4-Bromofluorobenzene	11.079	95	209487	56.903	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 113.800%			
Target Compounds						Qvalue
16) Acetone	2.392	43	6491	5.724	ug/l	97

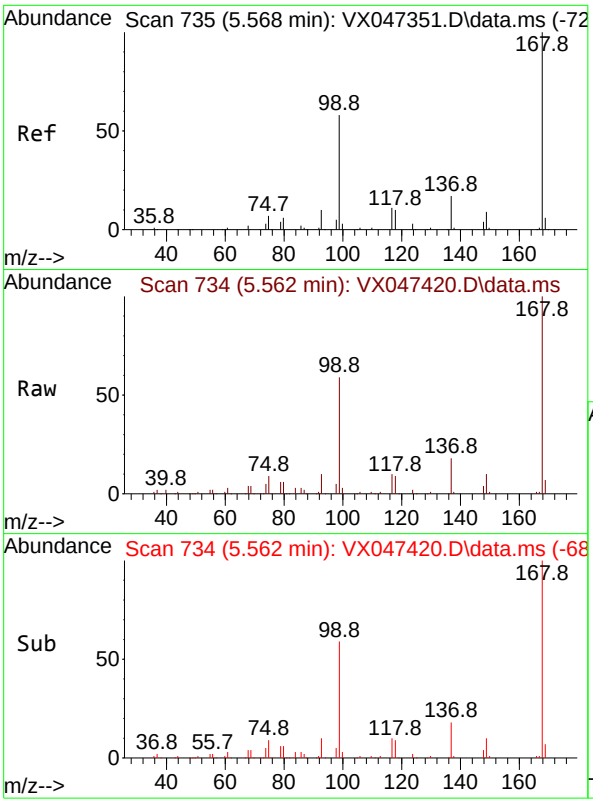
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047420.D
Acq On : 19 Aug 2025 18:00
Operator : JC/MD
Sample : Q2815-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP

Quant Time: Aug 20 01:30:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



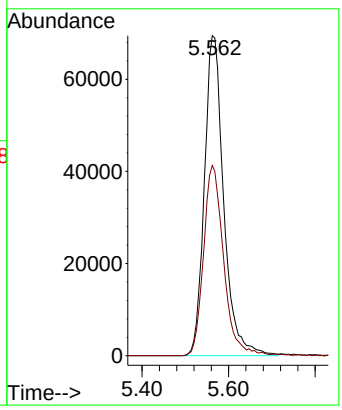


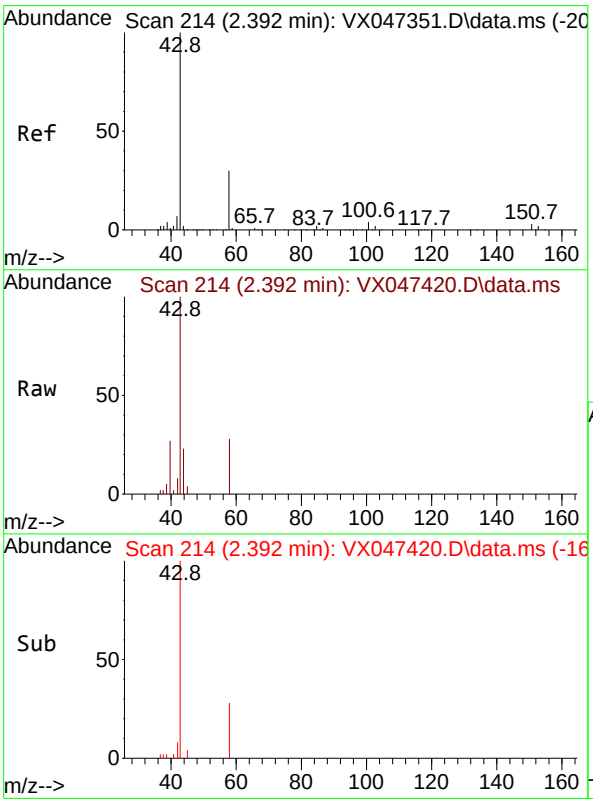
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047420.D
Acq: 19 Aug 2025 18:00

Instrument :
MSVOA_X
ClientSampleId :
DUP

Tgt Ion:168 Resp: 215558

Ion	Ratio	Lower	Upper
168	100		
99	59.4	47.9	71.9

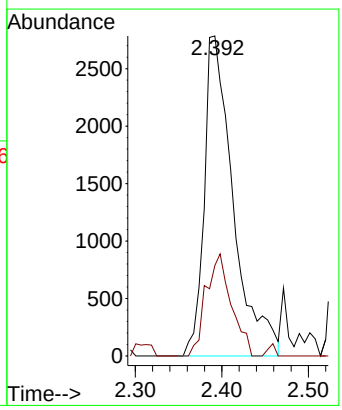


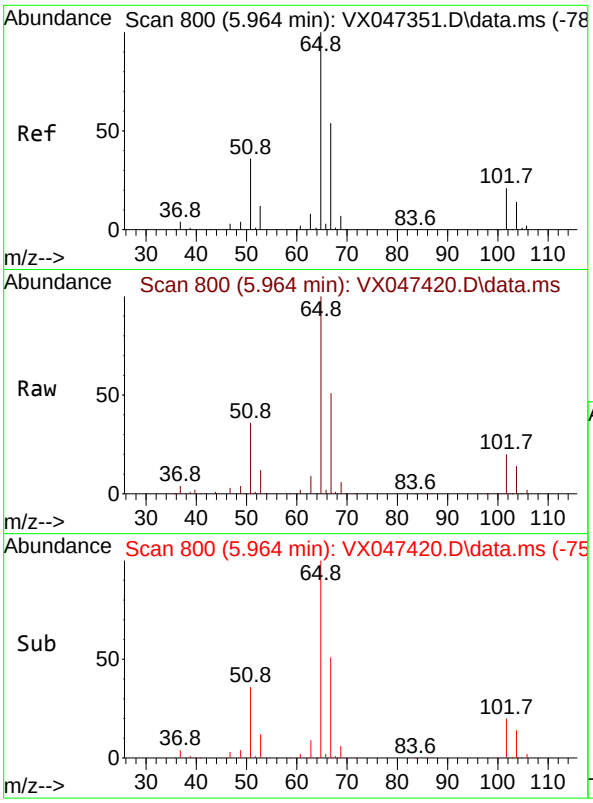


#16
Acetone
Concen: 5.724 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047420.D
Acq: 19 Aug 2025 18:00

Tgt Ion: 43 Resp: 6491

Ion	Ratio	Lower	Upper
43	100		
58	29.6	24.8	37.2



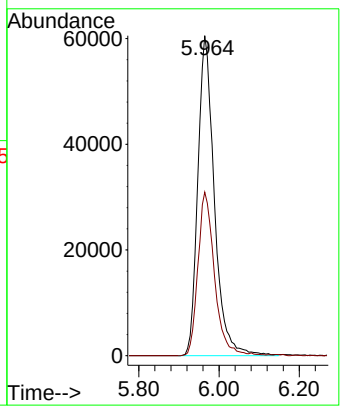


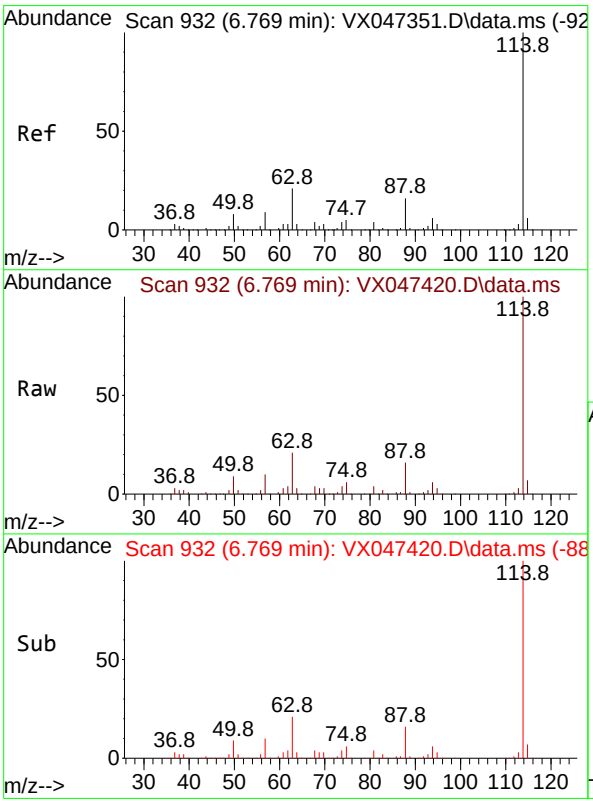
#33
1,2-Dichloroethane-d4
Concen: 57.345 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047420.D
Acq: 19 Aug 2025 18:00

Instrument :
MSVOA_X
ClientSampleId :
DUP

Tgt Ion: 65 Resp: 172997

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	106.0

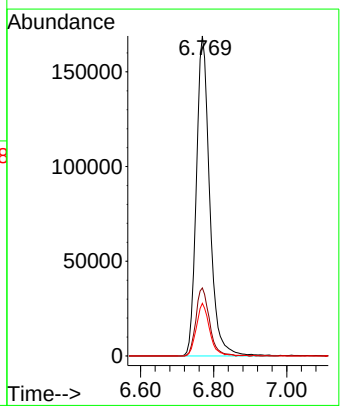


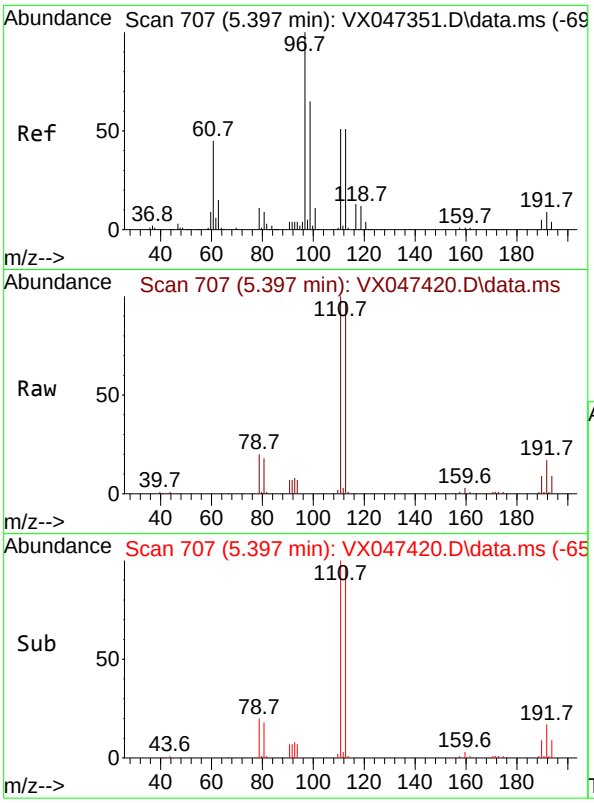


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047420.D
Acq: 19 Aug 2025 18:00

Tgt Ion:114 Resp: 430064

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	16.5	0.0	33.0



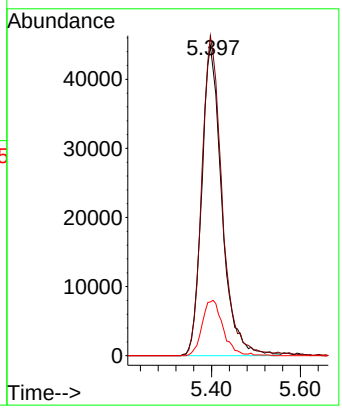


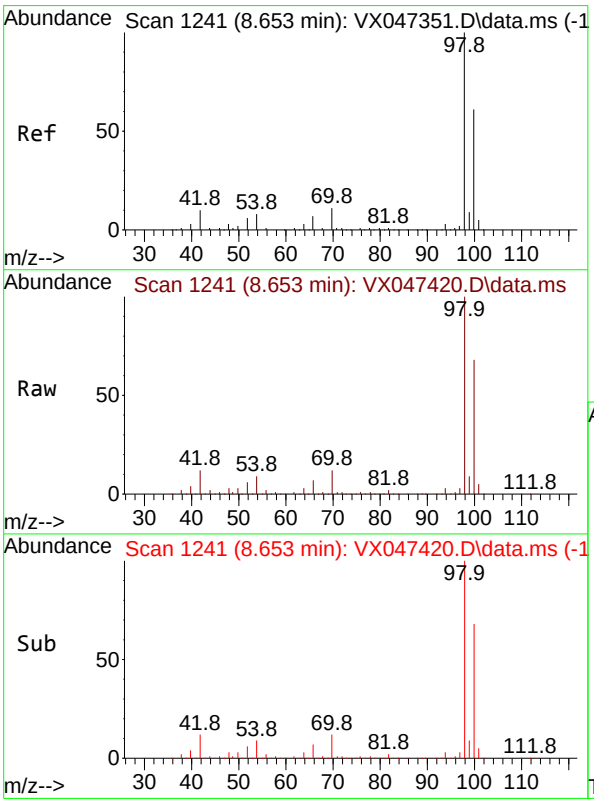
#35
Dibromofluoromethane
Concen: 50.486 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047420.D
Acq: 19 Aug 2025 18:00

Instrument :
MSVOA_X
ClientSampleId :
DUP

Tgt Ion:113 Resp: 140913

Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.4	122.2
192	18.4	14.1	21.1

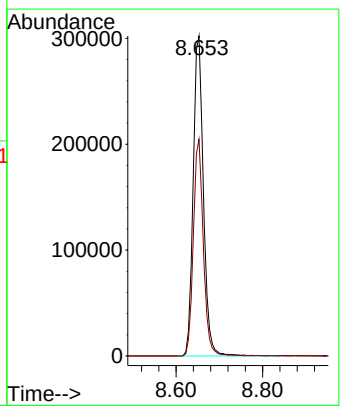


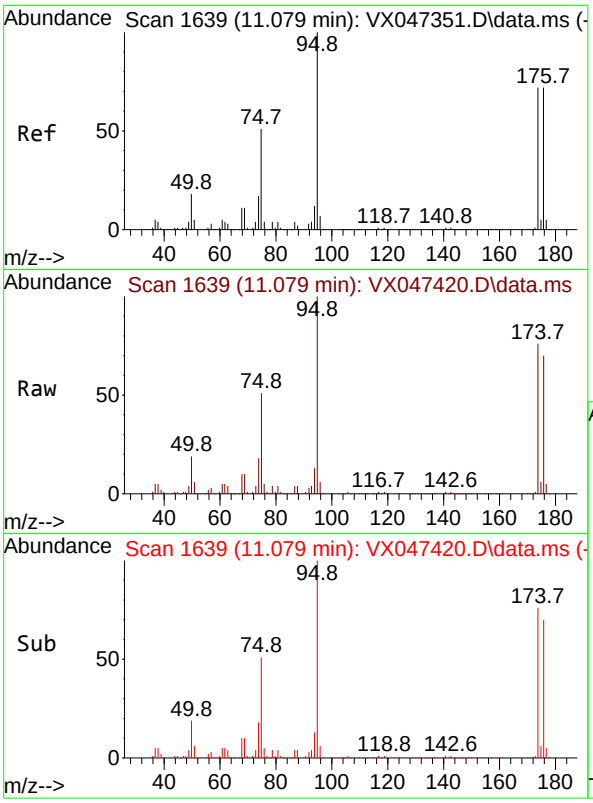


#50
Toluene-d8
Concen: 49.720 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047420.D
Acq: 19 Aug 2025 18:00

Tgt Ion: 98 Resp: 496027

Ion	Ratio	Lower	Upper
98	100		
100	66.0	53.9	80.9



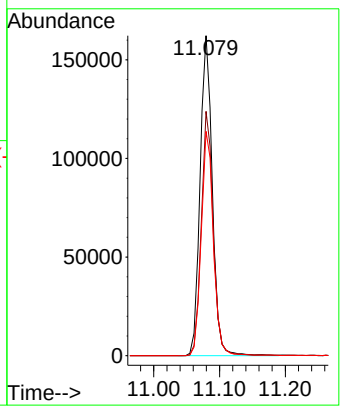


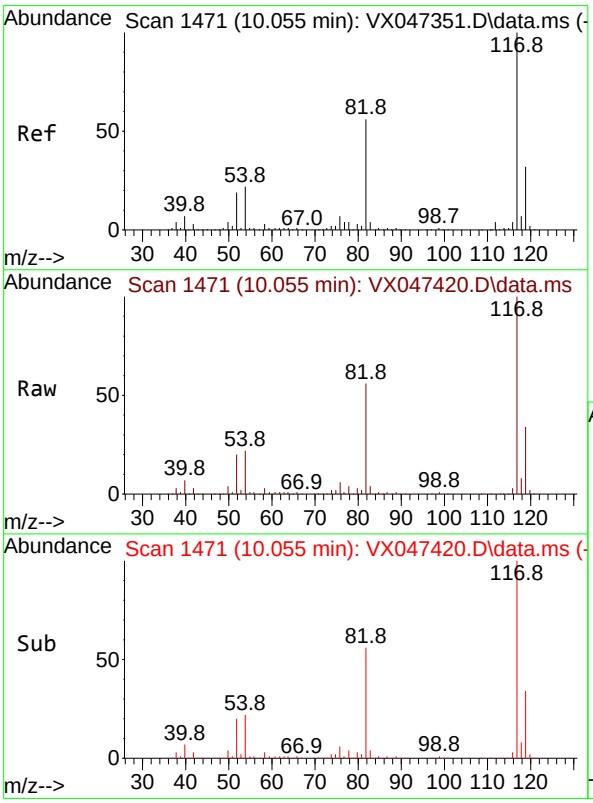
#62
4-Bromofluorobenzene
Concen: 56.903 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047420.D
Acq: 19 Aug 2025 18:00

Instrument :
MSVOA_X
ClientSampleId :
DUP

Tgt Ion: 95 Resp: 209487

Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	148.0
176	69.6	0.0	145.4

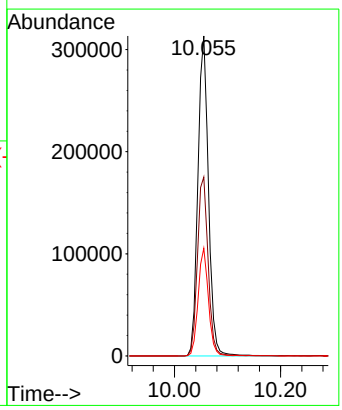


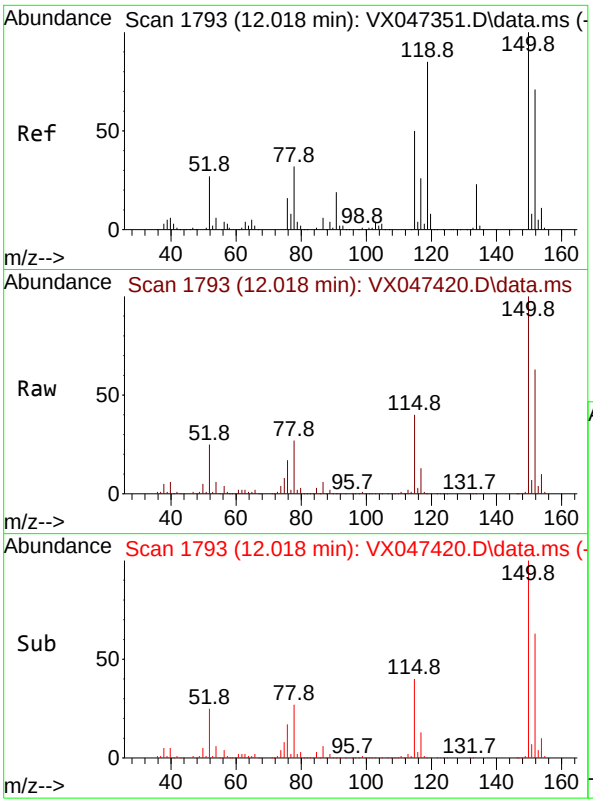


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047420.D
Acq: 19 Aug 2025 18:00

Tgt Ion:117 Resp: 432045

Ion	Ratio	Lower	Upper
117	100		
82	55.9	45.0	67.4
119	33.7	25.8	38.8



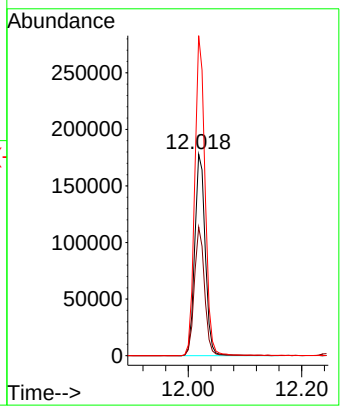


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047420.D
Acq: 19 Aug 2025 18:00

Instrument :
MSVOA_X
ClientSampleId :
DUP

Tgt Ion:152 Resp: 228843

Ion	Ratio	Lower	Upper
152	100		
115	62.1	44.6	133.8
150	156.0	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047420.D
Acq On : 19 Aug 2025 18:00
Operator : JC/MD
Sample : Q2815-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047420.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	25	29	35	rBV	18405	34110	2.40%	0.431%
2	2.959	300	307	315	rVB3	8493	18332	1.29%	0.232%
3	5.397	696	707	724	rBV2	147549	467348	32.94%	5.907%
4	5.562	724	734	757	rVB	211135	655928	46.22%	8.291%
5	5.964	790	800	814	rBV2	164270	470212	33.14%	5.944%
6	6.769	922	932	957	rBV	400881	1023445	72.12%	12.937%
7	8.653	1234	1241	1259	rBV	808632	1331402	93.83%	16.829%
8	10.055	1465	1471	1489	rBV	968386	1346911	94.92%	17.025%
9	11.079	1634	1639	1652	rBV	776228	994316	70.07%	12.568%
10	12.018	1788	1793	1804	rBV	1124447	1418998	100.00%	17.936%
11	12.244	1825	1830	1837	rVB3	29743	42680	3.01%	0.539%
12	12.646	1892	1896	1900	rBV2	12120	14864	1.05%	0.188%
13	12.701	1900	1905	1912	rVB	16488	24849	1.75%	0.314%
14	13.170	1978	1982	1991	rVB2	17755	29495	2.08%	0.373%
15	13.292	1997	2002	2006	rBV2	11773	16216	1.14%	0.205%
16	13.926	2098	2106	2110	rBV	15887	22167	1.56%	0.280%

Sum of corrected areas: 7911273

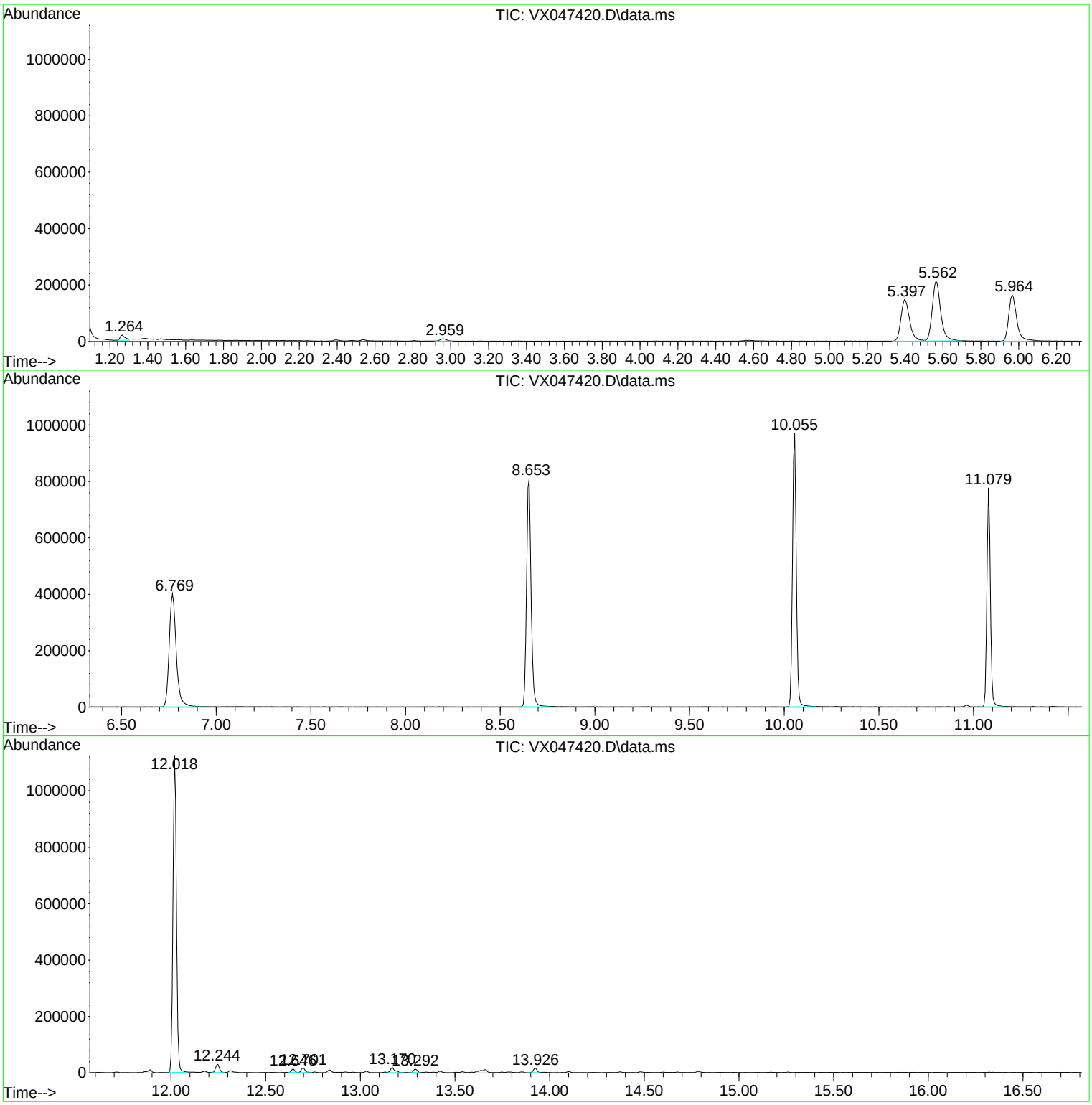
Sample Results: **VX047420.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047420.D
Acq On : 19 Aug 2025 18:00
Operator : JC/MD
Sample : Q2815-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047420.D
Acq On : 19 Aug 2025 18:00
Operator : JC/MD
Sample : Q2815-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081925\
Data File : VX047420.D
Acq On : 19 Aug 2025 18:00
Operator : JC/MD
Sample : Q2815-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-20	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
VX047412.D	1	08/19/25 15:11	VX081925

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	5.40		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.69	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	0.50	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	0.42	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	0.50	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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-20	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
VX047412.D	1	08/19/25 15:11	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.9		81 - 118		112%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	49.7		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.7		85 - 114		111%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	205000	5.568				
540-36-3	1,4-Difluorobenzene	411000	6.769				
3114-55-4	Chlorobenzene-d5	413000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	212000	12.018				
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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-W	SDG No.:	Q2815
Lab Sample ID:	Q2815-20	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
VX047412.D	1	08/19/25 15:11	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
007446-09-5	Sulfur dioxide	96.8	J			1.28	ug/L

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\VX081925\
Data File : VX047412.D
Acq On : 19 Aug 2025 15:11
Operator : JC/MD
Sample : Q2815-20
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-W

Quant Time: Aug 20 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

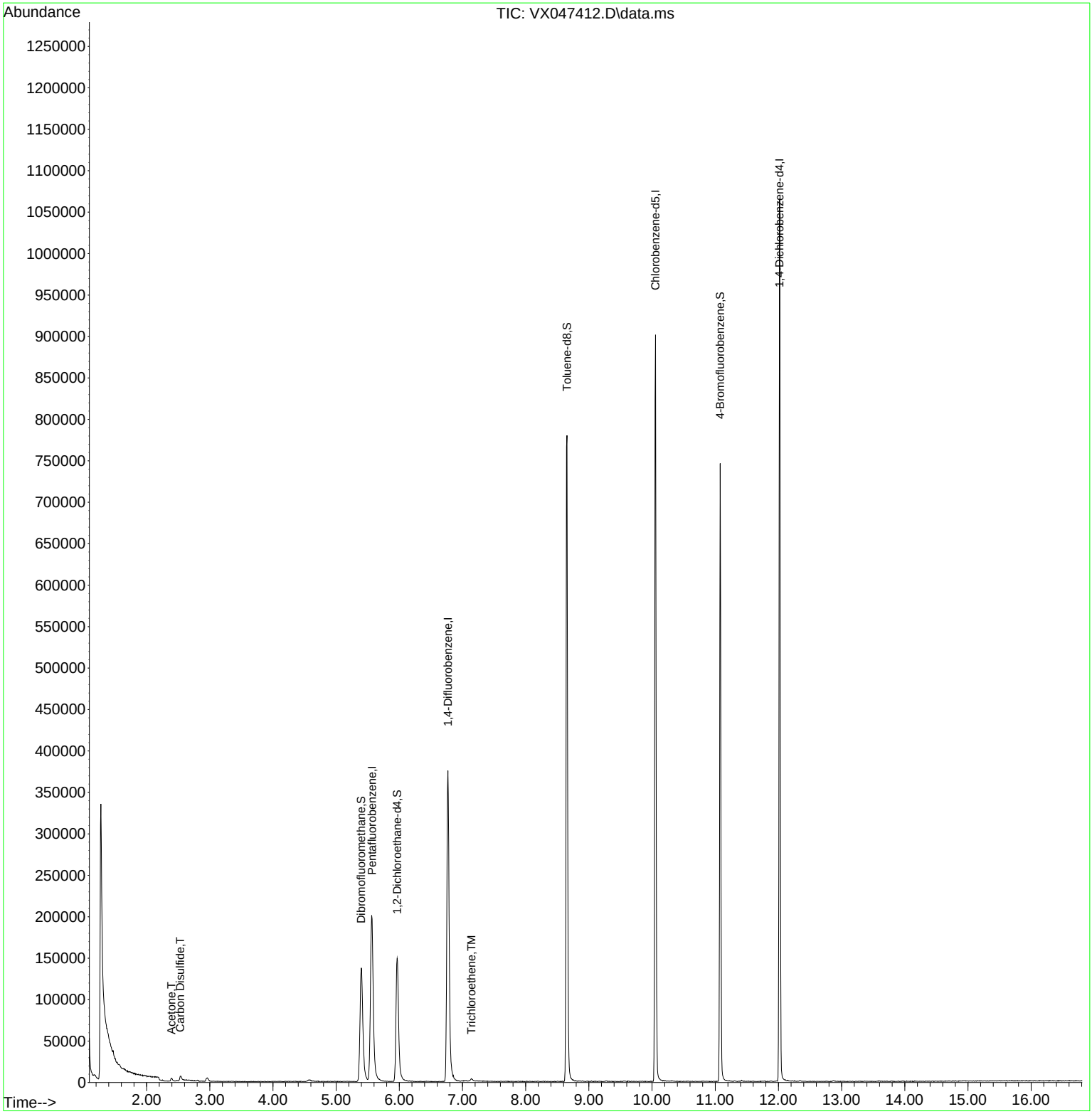
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	205245	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	410791	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	412728	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	211590	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	160690	55.941	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 111.880%			
35) Dibromofluoromethane	5.397	113	134529	50.460	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.920%			
50) Toluene-d8	8.653	98	473845	49.725	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.460%			
62) 4-Bromofluorobenzene	11.079	95	195878	55.703	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.400%			
Target Compounds						Qvalue
16) Acetone	2.392	43	5802	5.374	ug/l #	75
17) Carbon Disulfide	2.532	76	5355	0.687	ug/l	97
44) Trichloroethene	7.141	130	1369	0.424	ug/l	77

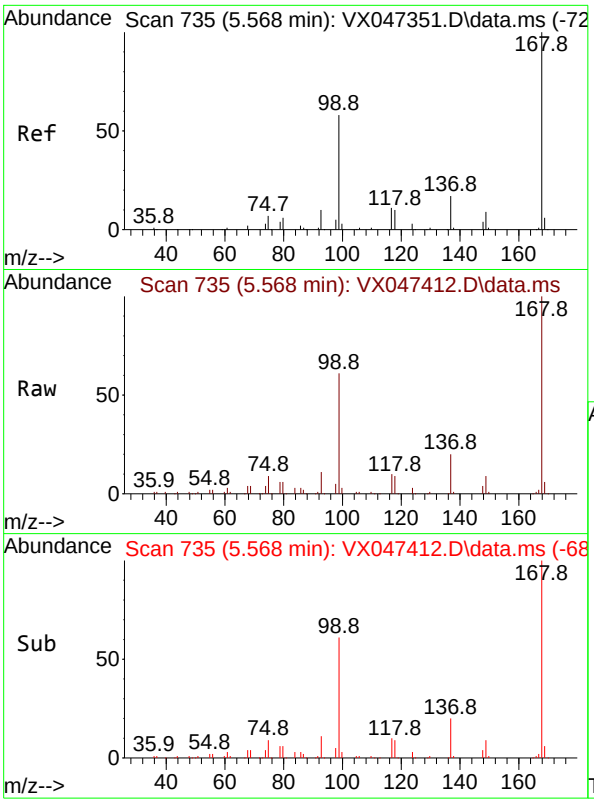
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047412.D
Acq On : 19 Aug 2025 15:11
Operator : JC/MD
Sample : Q2815-20
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-W

Quant Time: Aug 20 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



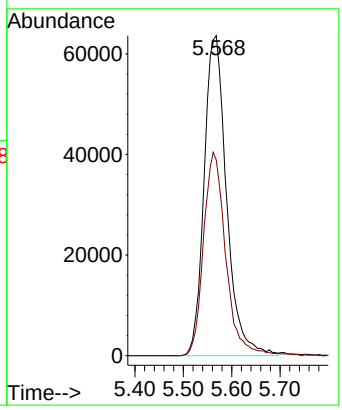


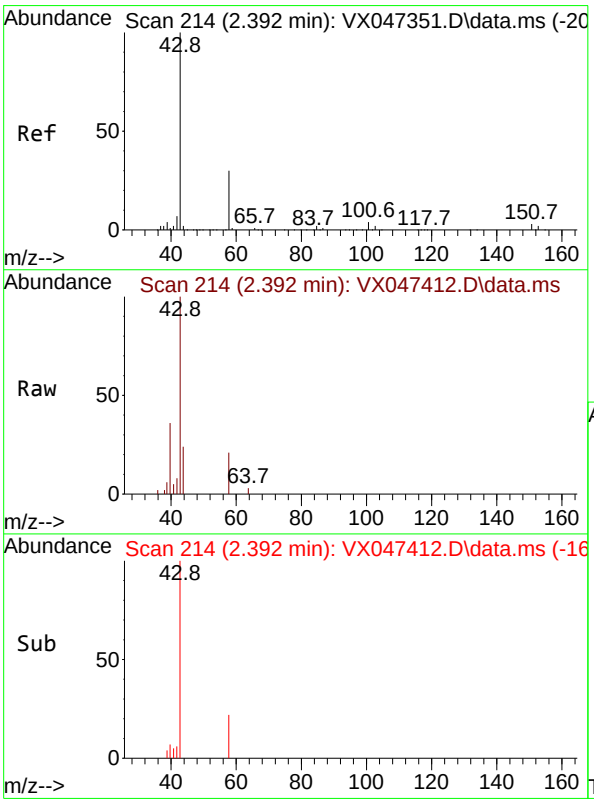
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047412.D
Acq: 19 Aug 2025 15:11

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-W

Tgt Ion:168 Resp: 205245

Ion	Ratio	Lower	Upper
168	100		
99	61.1	47.9	71.9

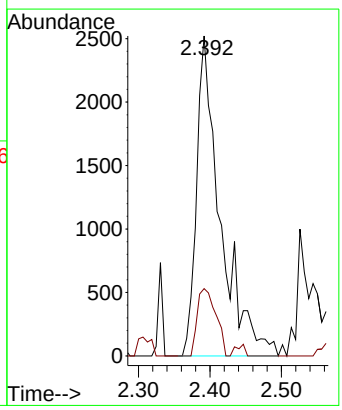


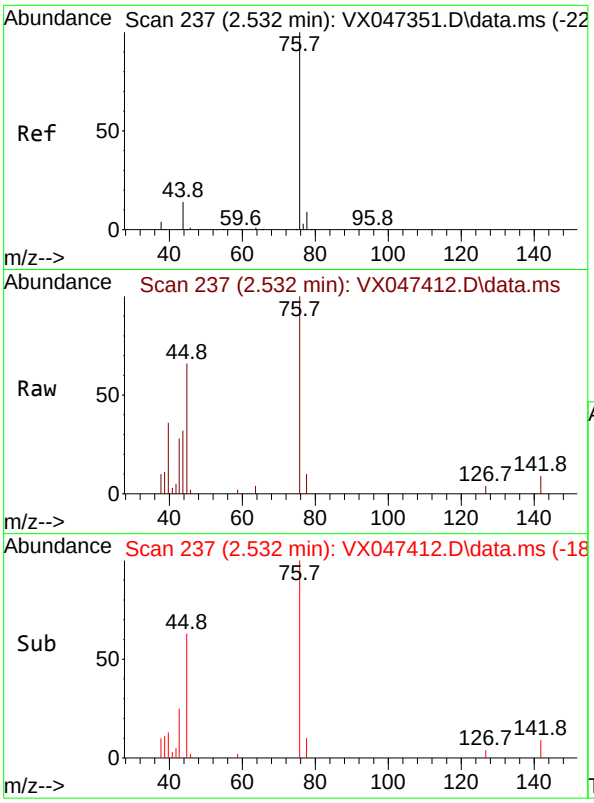


#16
Acetone
Concen: 5.374 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047412.D
Acq: 19 Aug 2025 15:11

Tgt Ion: 43 Resp: 5802

Ion	Ratio	Lower	Upper
43	100		
58	17.0	24.8	37.2#



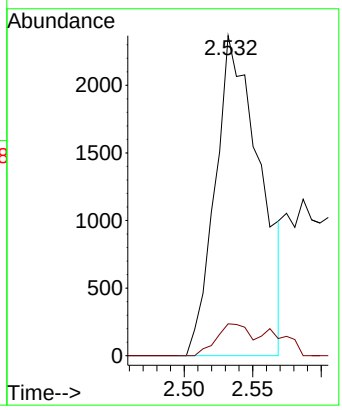


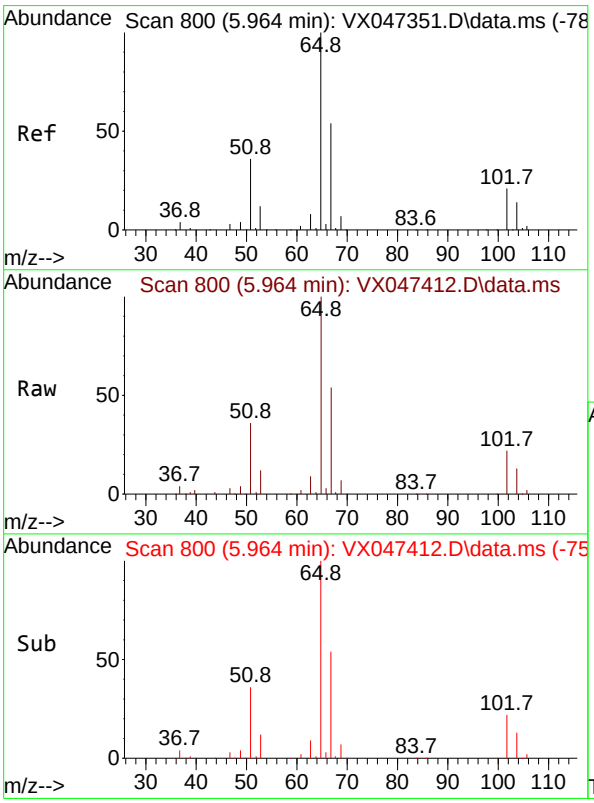
#17
Carbon Disulfide
Concen: 0.687 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047412.D
Acq: 19 Aug 2025 15:11

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-W

Tgt Ion: 76 Resp: 5355

Ion	Ratio	Lower	Upper
76	100		
78	10.0	7.2	10.8

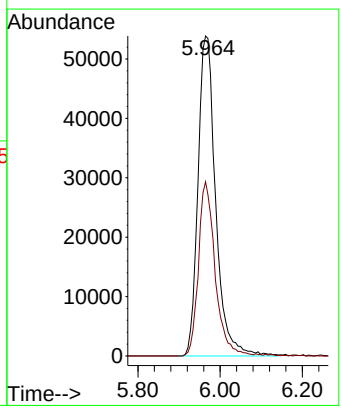


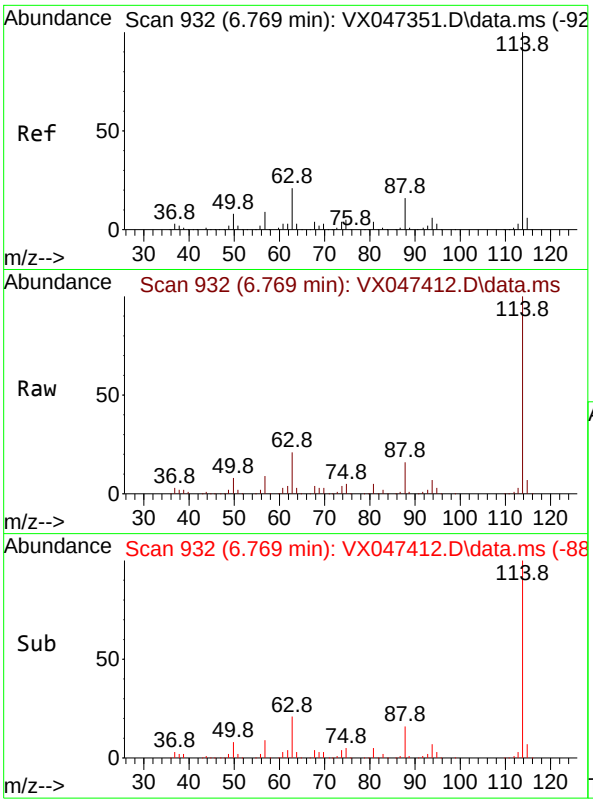


#33
1,2-Dichloroethane-d4
Concen: 55.941 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047412.D
Acq: 19 Aug 2025 15:11

Tgt Ion: 65 Resp: 160690

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	106.0



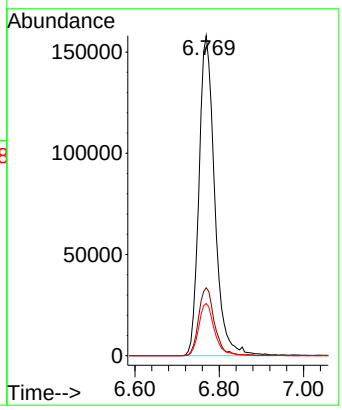


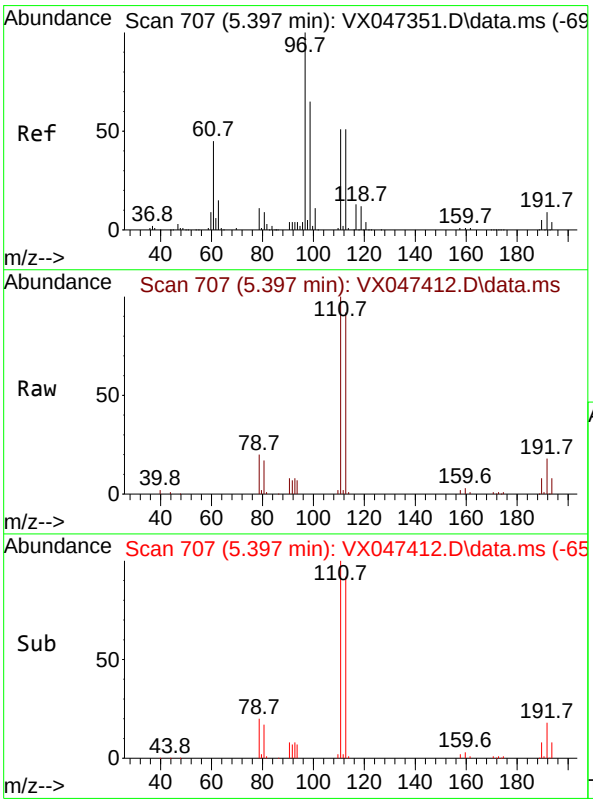
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047412.D
Acq: 19 Aug 2025 15:11

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-W

Tgt Ion:114 Resp: 410791

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	16.3	0.0	33.0

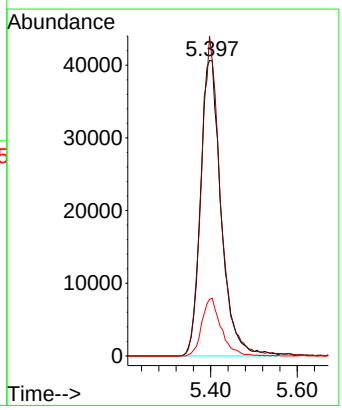


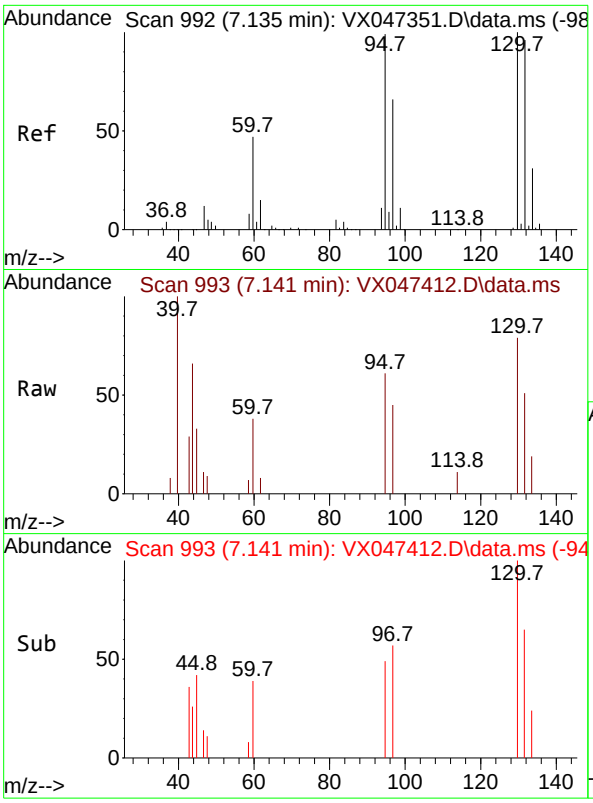


#35
Dibromofluoromethane
Concen: 50.460 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047412.D
Acq: 19 Aug 2025 15:11

Tgt Ion:113 Resp: 134529

Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.4	122.2
192	18.2	14.1	21.1



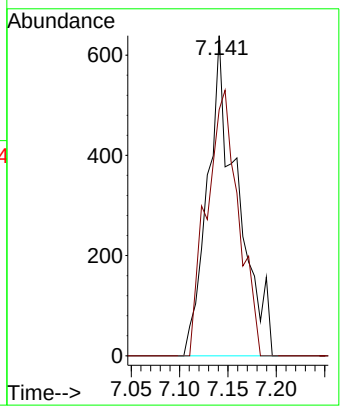


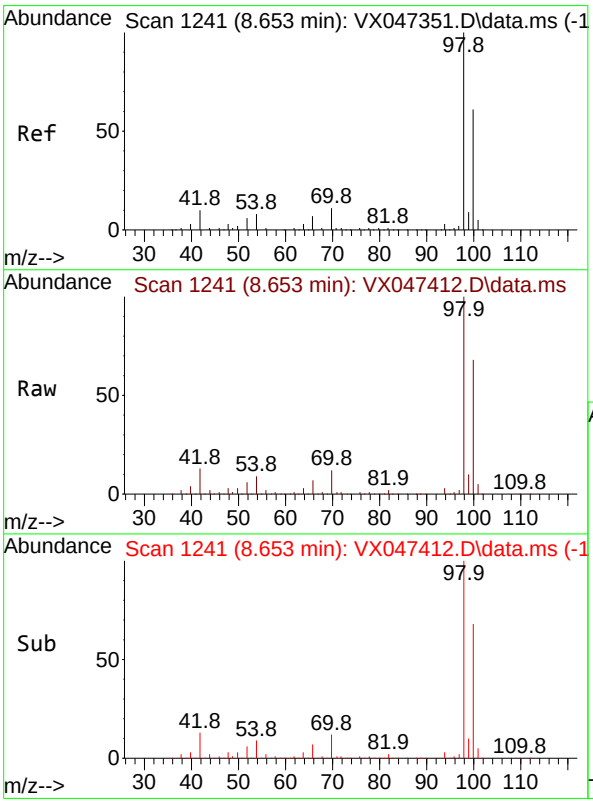
#44
Trichloroethene
Concen: 0.424 ug/l
RT: 7.141 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047412.D
Acq: 19 Aug 2025 15:11

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-W

Tgt Ion:130 Resp: 1369

Ion	Ratio	Lower	Upper
130	100		
95	76.8	0.0	198.6

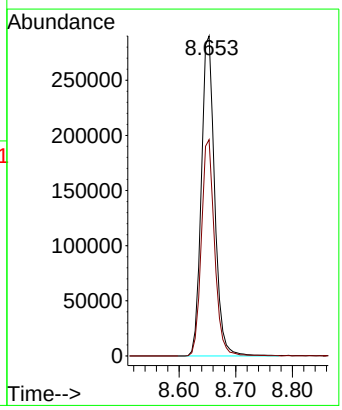


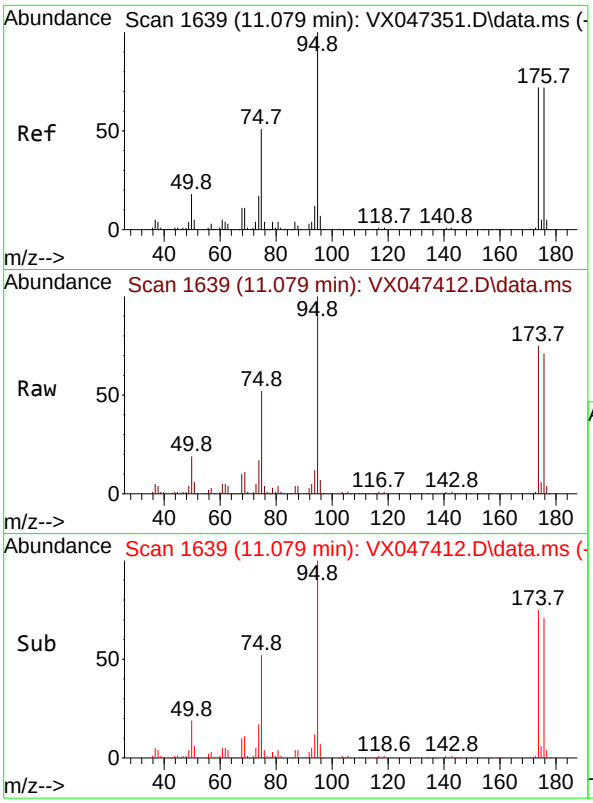


#50
Toluene-d8
Concen: 49.725 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047412.D
Acq: 19 Aug 2025 15:11

Tgt Ion: 98 Resp: 473845

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.9	80.9



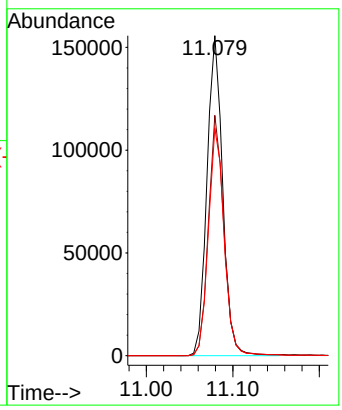


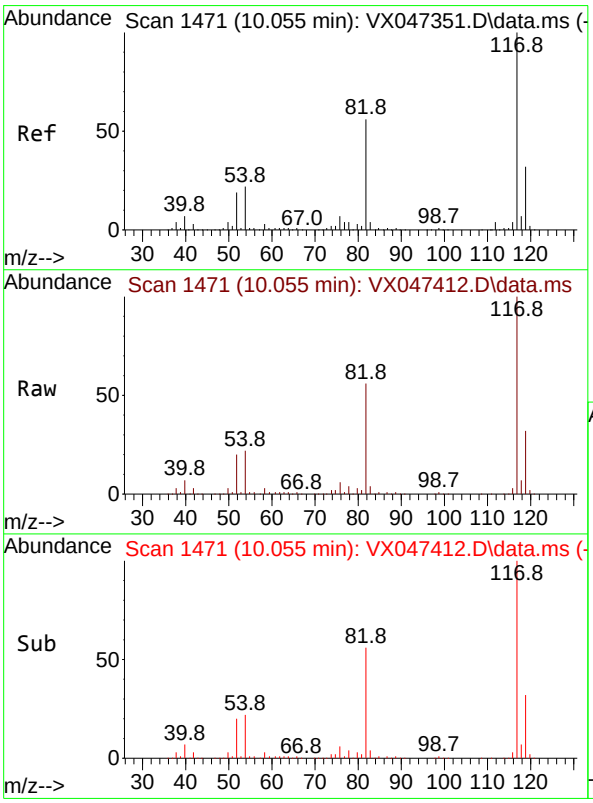
#62
4-Bromofluorobenzene
Concen: 55.703 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047412.D
Acq: 19 Aug 2025 15:11

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-W

Tgt Ion: 95 Resp: 195878

Ion	Ratio	Lower	Upper
95	100		
174	74.2	0.0	148.0
176	71.6	0.0	145.4

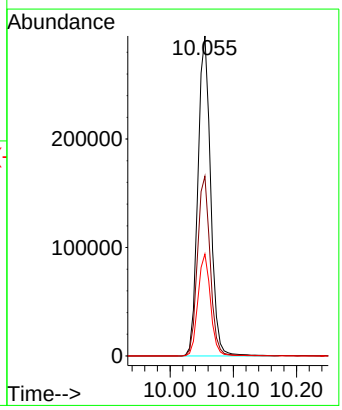


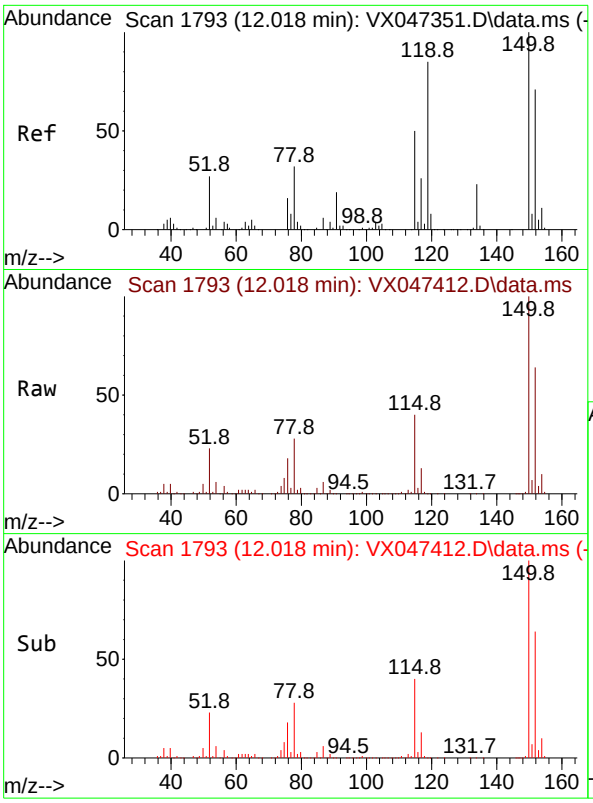


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047412.D
Acq: 19 Aug 2025 15:11

Tgt Ion:117 Resp: 412728

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.0	67.4
119	31.8	25.8	38.8



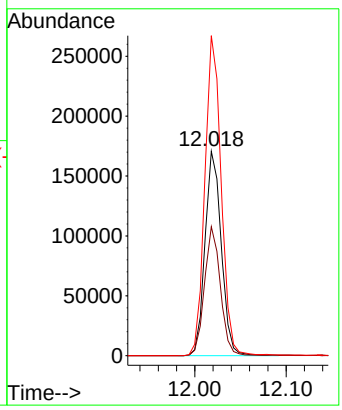


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047412.D
Acq: 19 Aug 2025 15:11

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-W

Tgt Ion:152 Resp: 211590

Ion	Ratio	Lower	Upper
152	100		
115	61.8	44.6	133.8
150	157.3	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047412.D
Acq On : 19 Aug 2025 15:11
Operator : JC/MD
Sample : Q2815-20
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-W

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047412.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.276	25	31	62	rBV	331986	1239863	94.68%	14.499%
2	2.538	232	238	245	rBV3	5614	13599	1.04%	0.159%
3	5.397	695	707	724	rBV2	137208	441230	33.69%	5.160%
4	5.562	724	734	763	rVB	200234	640500	48.91%	7.490%
5	5.964	790	800	818	rBV2	148160	434397	33.17%	5.080%
6	6.769	923	932	951	rBV	374859	970736	74.13%	11.351%
7	8.653	1234	1241	1256	rBV	779214	1287147	98.29%	15.051%
8	10.055	1465	1471	1489	rBV	900678	1279521	97.70%	14.962%
9	11.079	1634	1639	1653	rBV	745324	935058	71.40%	10.934%
10	12.018	1788	1793	1806	rBV	1064560	1309588	100.00%	15.314%

Sum of corrected areas: 8551639

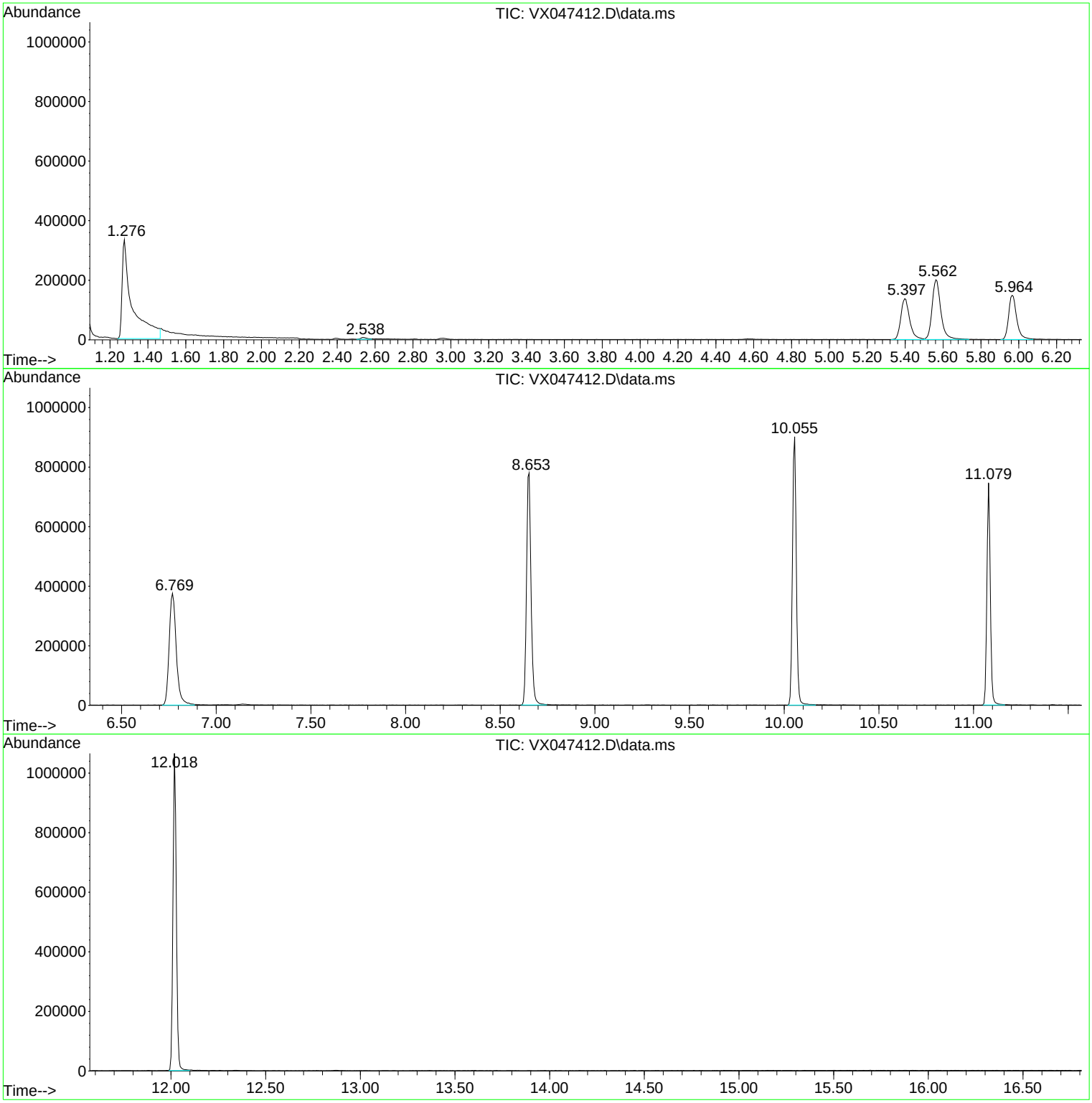
Sample Results: **VX047412.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047412.D
Acq On : 19 Aug 2025 15:11
Operator : JC/MD
Sample : Q2815-20
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047412.D
Acq On : 19 Aug 2025 15:11
Operator : JC/MD
Sample : Q2815-20
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

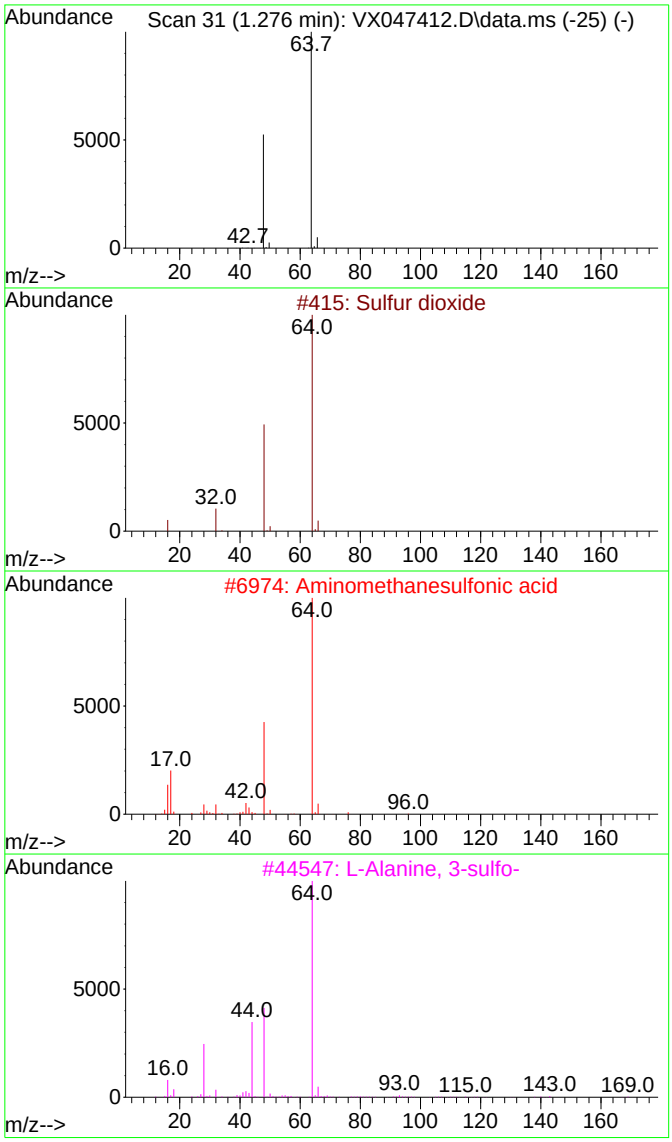
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

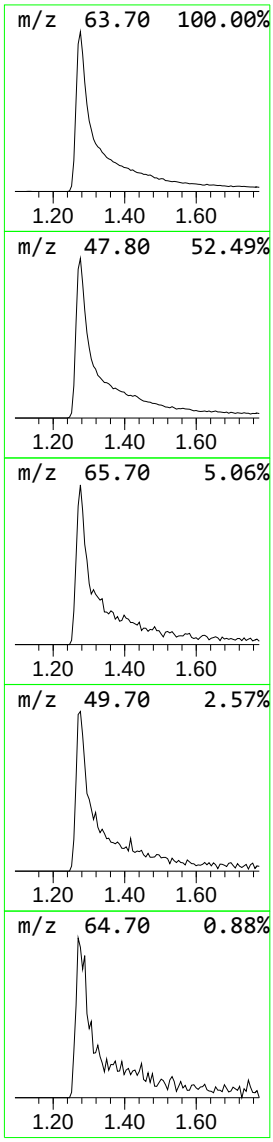
****

Peak Number 1 Sulfur dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.276	96.79 ug/l	1239860	Pentafluorobenzene	5.568

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	83
2	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	74
3	L-Alanine, 3-sulfo-	169	C3H7NO5S	000498-40-8	9
4	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	4
5	Ethyl Chloride	64	C2H5Cl	000075-00-3	3





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047412.D
Acq On : 19 Aug 2025 15:11
Operator : JC/MD
Sample : Q2815-20
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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
Sulfur dioxide	1.276	96.8	ug/l	1239860	1	5.568	640500	50.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-21	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
VX047413.D	1	08/19/25 15:32	VX081925

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	21.3		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.57	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	3.60	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	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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-21	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
VX047413.D	1	08/19/25 15:32	VX081925

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	61.7	*	81 - 118		123%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	50.8		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	58.1	*	85 - 114		116%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	212000	5.568				
540-36-3	1,4-Difluorobenzene	433000	6.769				
3114-55-4	Chlorobenzene-d5	450000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	234000	12.018				
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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-E	SDG No.:	Q2815
Lab Sample ID:	Q2815-21	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
VX047413.D	1	08/19/25 15:32	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
007446-09-5	Sulfur dioxide	13.3	J			1.27	ug/L

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\VX081925\
Data File : VX047413.D
Acq On : 19 Aug 2025 15:32
Operator : JC/MD
Sample : Q2815-21
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

Quant Time: Aug 20 01:27:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

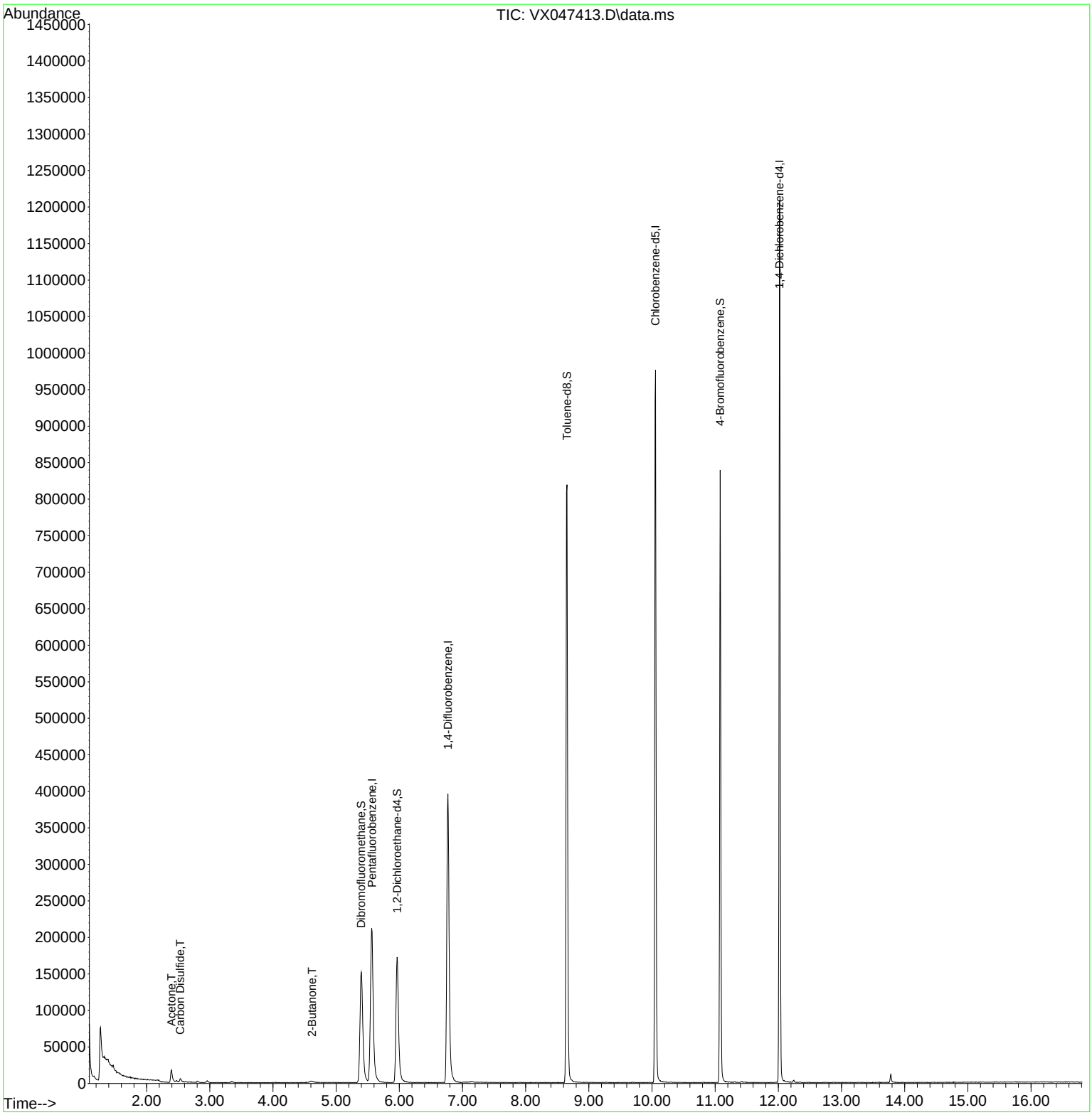
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	212215	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	432856	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	449898	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	233636	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	183303	61.718	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 123.440%#			
35) Dibromofluoromethane	5.397	113	148199	52.753	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.500%			
50) Toluene-d8	8.653	98	509829	50.774	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.540%			
62) 4-Bromofluorobenzene	11.079	95	215430	58.140	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 116.280%			
Target Compounds						Qvalue
16) Acetone	2.392	43	23805	21.324	ug/l	100
17) Carbon Disulfide	2.532	76	4582	0.568	ug/l	96
25) 2-Butanone	4.617	43	5322	3.640	ug/l #	76

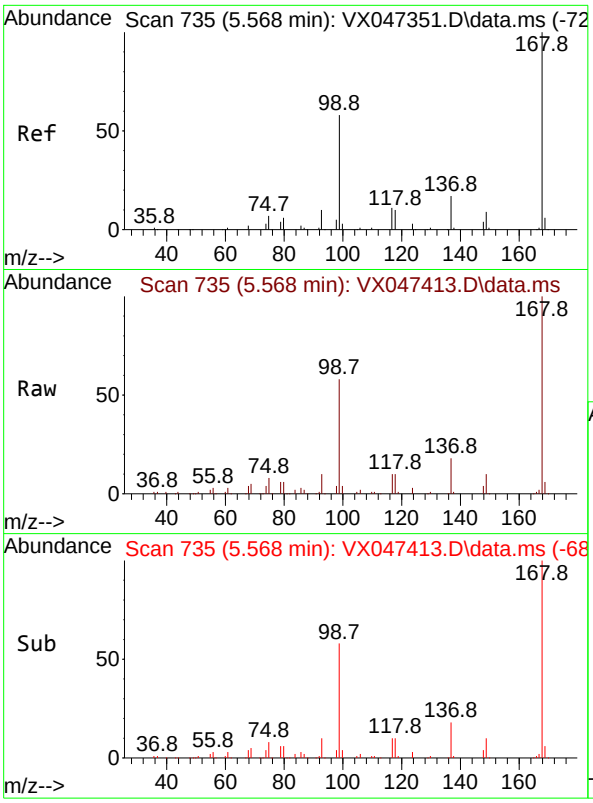
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047413.D
Acq On : 19 Aug 2025 15:32
Operator : JC/MD
Sample : Q2815-21
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

Quant Time: Aug 20 01:27:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



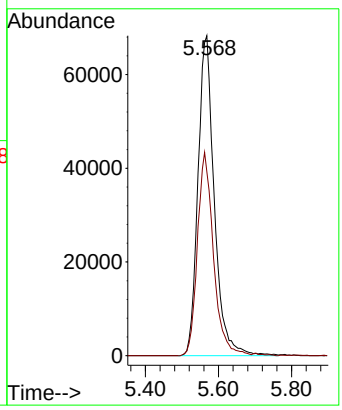


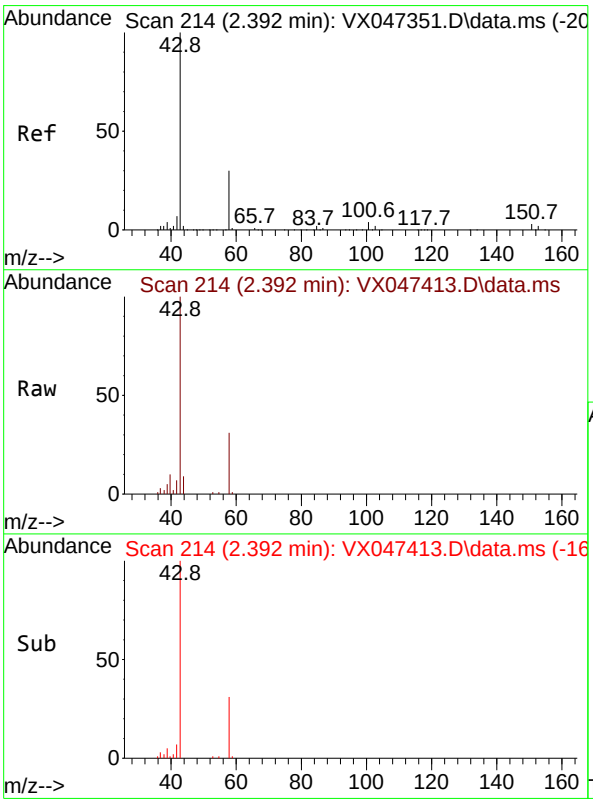
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

Tgt Ion:168 Resp: 212215

Ion	Ratio	Lower	Upper
168	100		
99	57.5	47.9	71.9

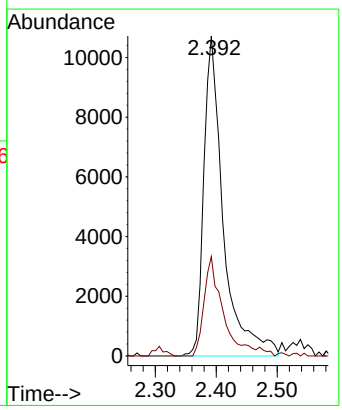


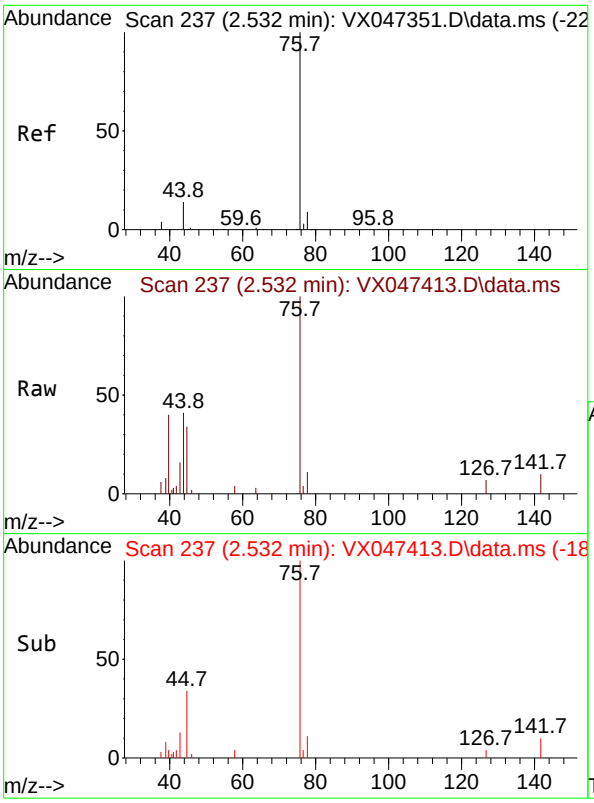


#16
Acetone
Concen: 21.324 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion: 43 Resp: 23805

Ion	Ratio	Lower	Upper
43	100		
58	31.0	24.8	37.2



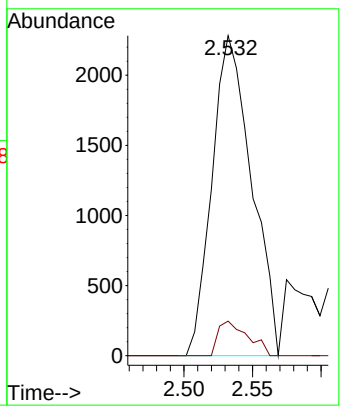


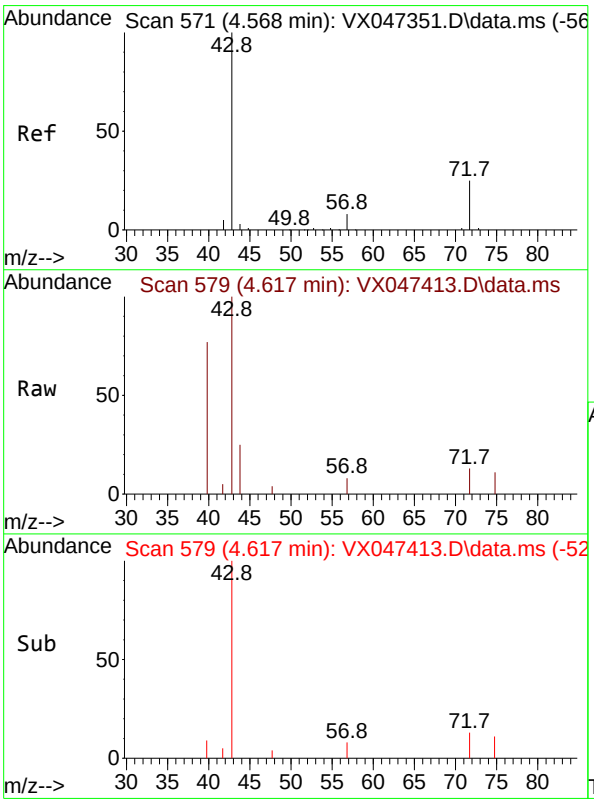
#17
Carbon Disulfide
Concen: 0.568 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

Tgt Ion: 76 Resp: 4582

Ion	Ratio	Lower	Upper
76	100		
78	10.4	7.2	10.8

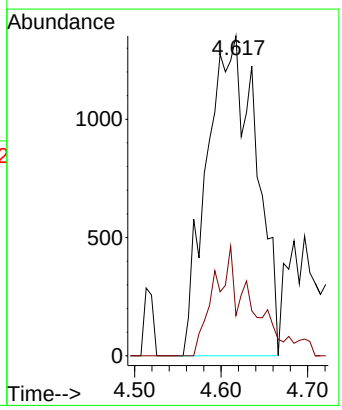


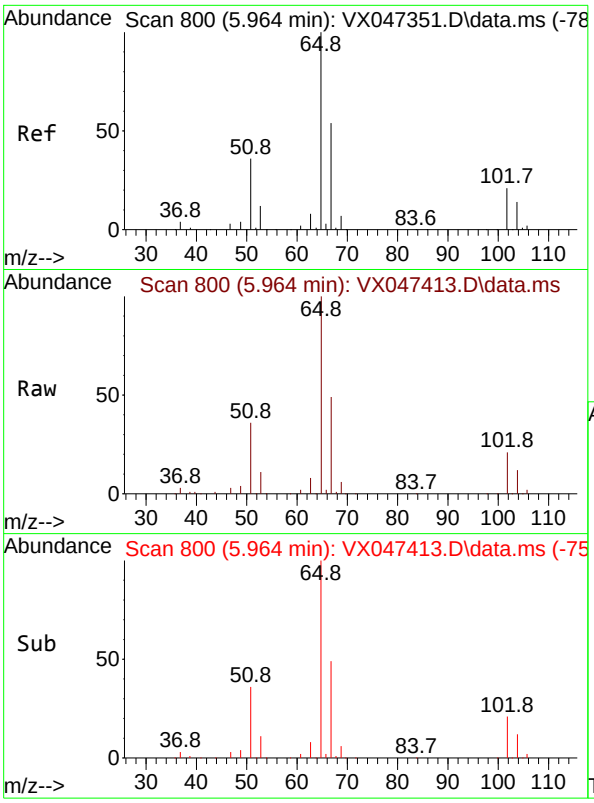


#25
2-Butanone
Concen: 3.640 ug/l
RT: 4.617 min Scan# 579
Delta R.T. 0.049 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion: 43 Resp: 5322

Ion	Ratio	Lower	Upper
43	100		
72	12.6	19.8	29.8#



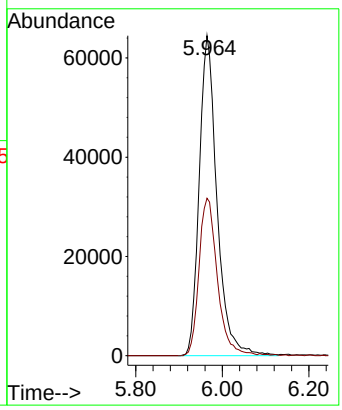


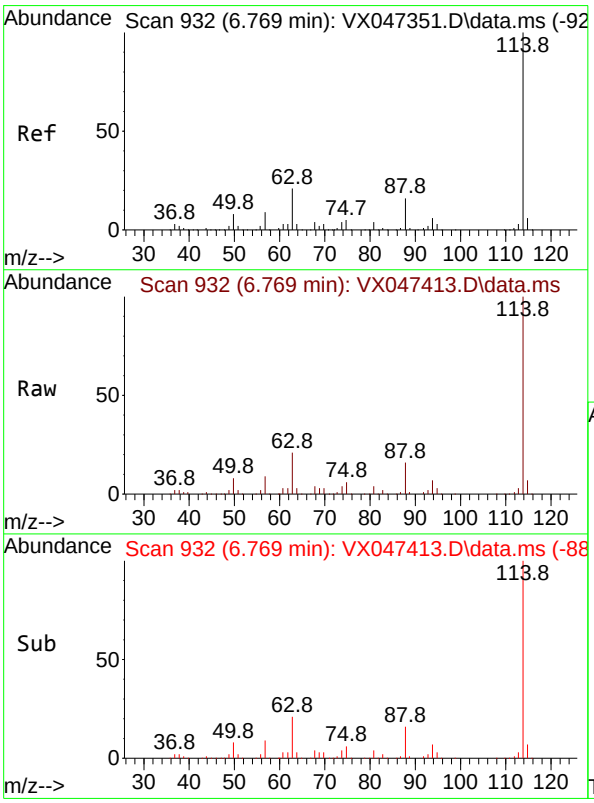
#33
1,2-Dichloroethane-d4
Concen: 61.718 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

Tgt Ion: 65 Resp: 183303

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	106.0

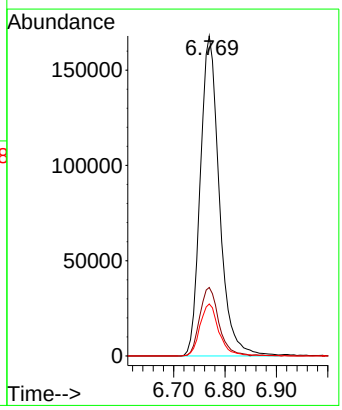


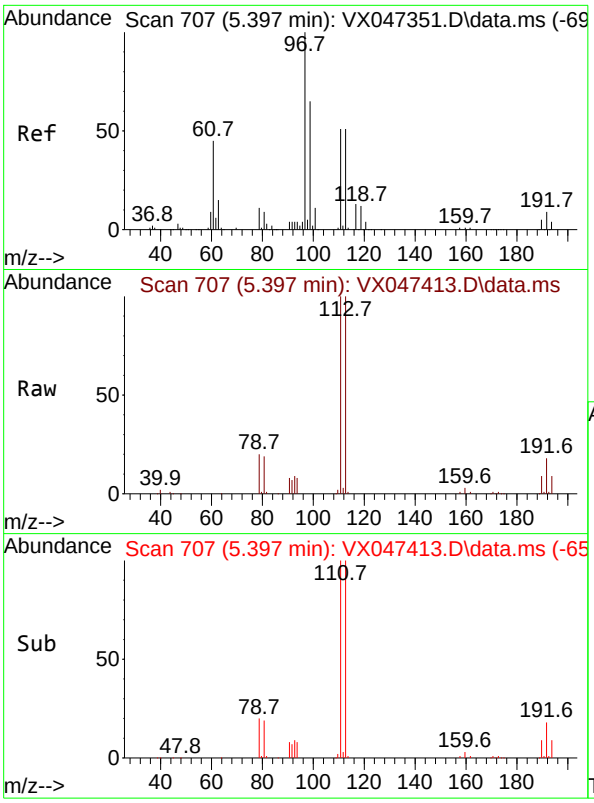


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion:114 Resp: 432856

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	42.4
88	16.2	0.0	33.0



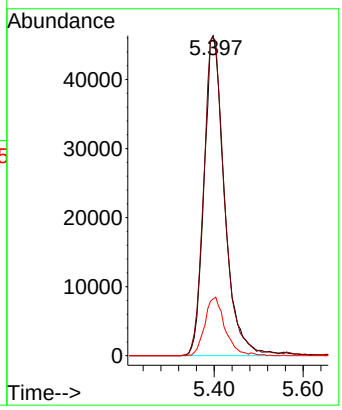


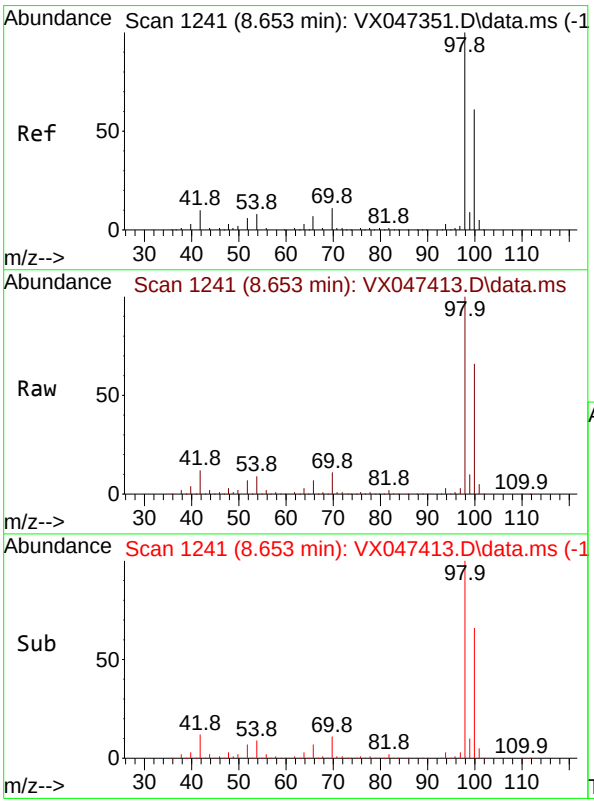
#35
Dibromofluoromethane
Concen: 52.753 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

Tgt Ion:113 Resp: 148199

Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.4	122.2
192	17.8	14.1	21.1

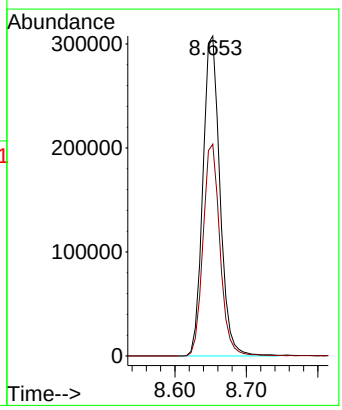


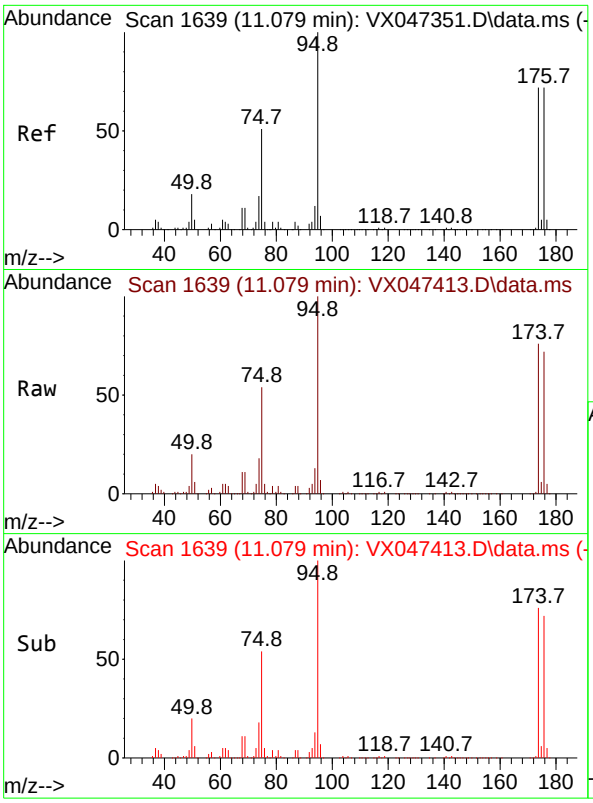


#50
Toluene-d8
Concen: 50.774 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion: 98 Resp: 509829

Ion	Ratio	Lower	Upper
98	100		
100	65.8	53.9	80.9



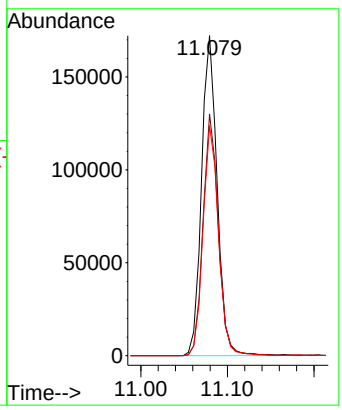


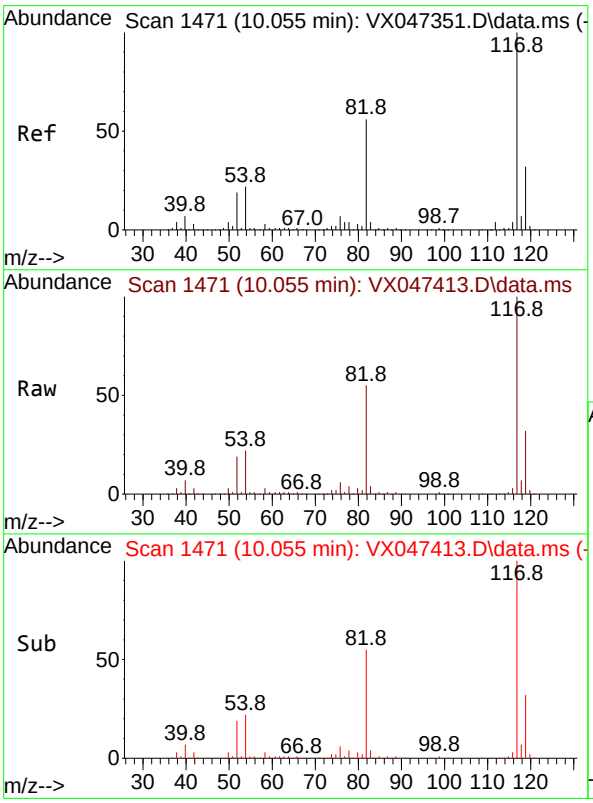
#62
4-Bromofluorobenzene
Concen: 58.140 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

Tgt Ion: 95 Resp: 215430

Ion	Ratio	Lower	Upper
95	100		
174	74.2	0.0	148.0
176	71.3	0.0	145.4

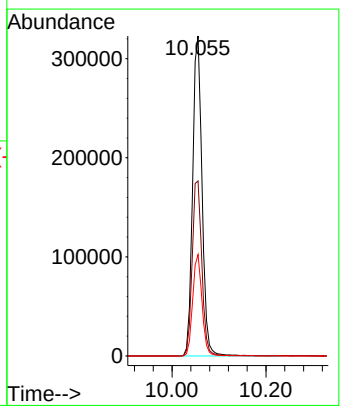


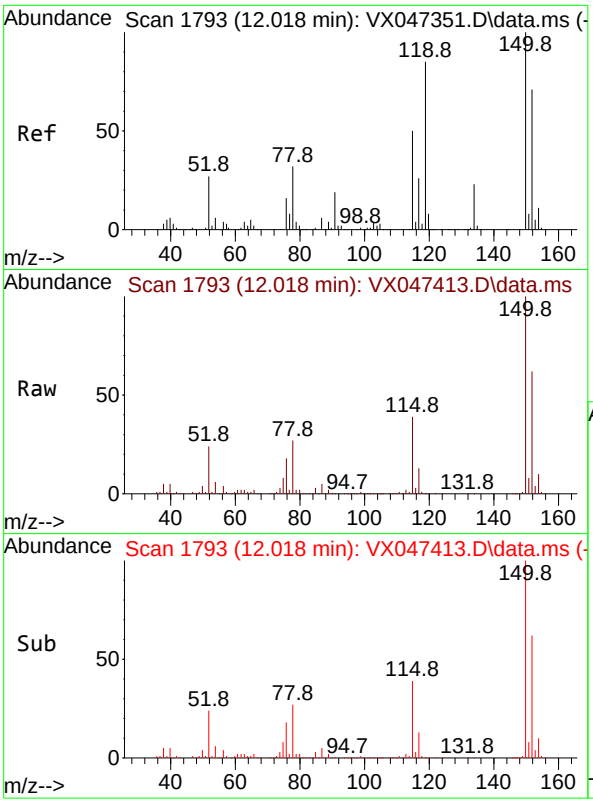


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion:117 Resp: 449898

Ion	Ratio	Lower	Upper
117	100		
82	54.7	45.0	67.4
119	31.7	25.8	38.8



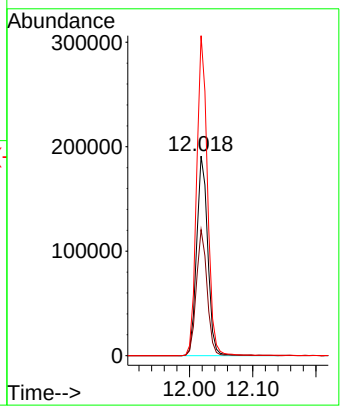


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

Tgt Ion:152 Resp: 233636

Ion	Ratio	Lower	Upper
152	100		
115	61.4	44.6	133.8
150	157.3	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047413.D
Acq On : 19 Aug 2025 15:32
Operator : JC/MD
Sample : Q2815-21
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047413.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.270	24	30	36	rBV	72292	173264	11.99%	2.132%
2	2.392	208	214	223	rBV	17049	35781	2.48%	0.440%
3	5.397	695	707	723	rBV3	151426	486167	33.64%	5.982%
4	5.562	724	734	755	rVB2	210277	652150	45.13%	8.025%
5	5.964	790	800	822	rBV	171626	496392	34.35%	6.108%
6	6.769	922	932	955	rBV	395234	1031712	71.39%	12.695%
7	8.653	1234	1241	1259	rBV	818569	1370789	94.85%	16.867%
8	10.055	1465	1471	1483	rBV	975536	1383833	95.75%	17.028%
9	11.079	1634	1639	1652	rBV	838339	1035138	71.63%	12.737%
10	12.018	1788	1793	1804	rBV	1207764	1445185	100.00%	17.783%
11	13.780	2076	2082	2087	rBV	11302	16467	1.14%	0.203%

Sum of corrected areas: 8126878

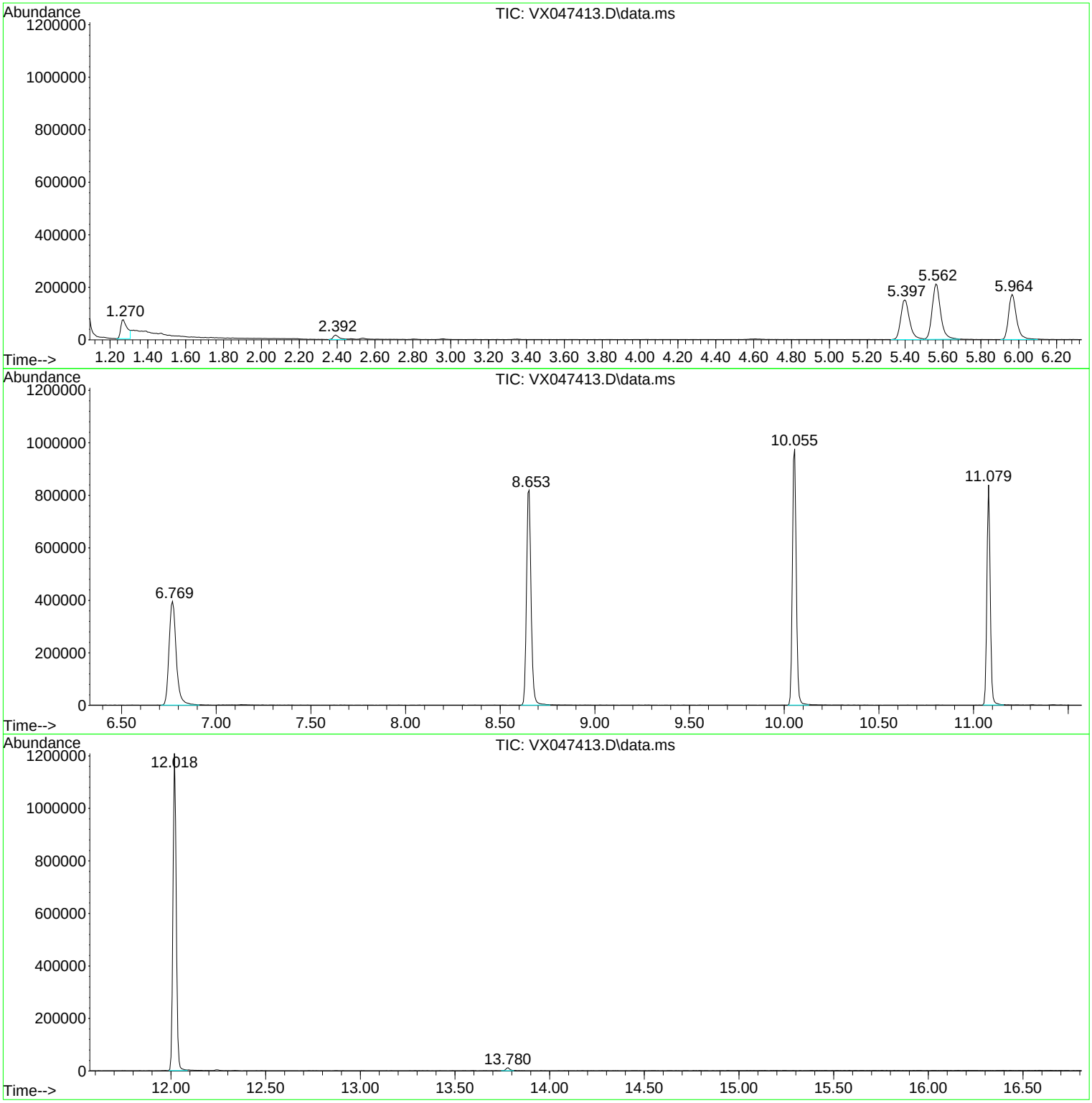
Sample Results: **VX047413.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047413.D
Acq On : 19 Aug 2025 15:32
Operator : JC/MD
Sample : Q2815-21
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047413.D
Acq On : 19 Aug 2025 15:32
Operator : JC/MD
Sample : Q2815-21
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

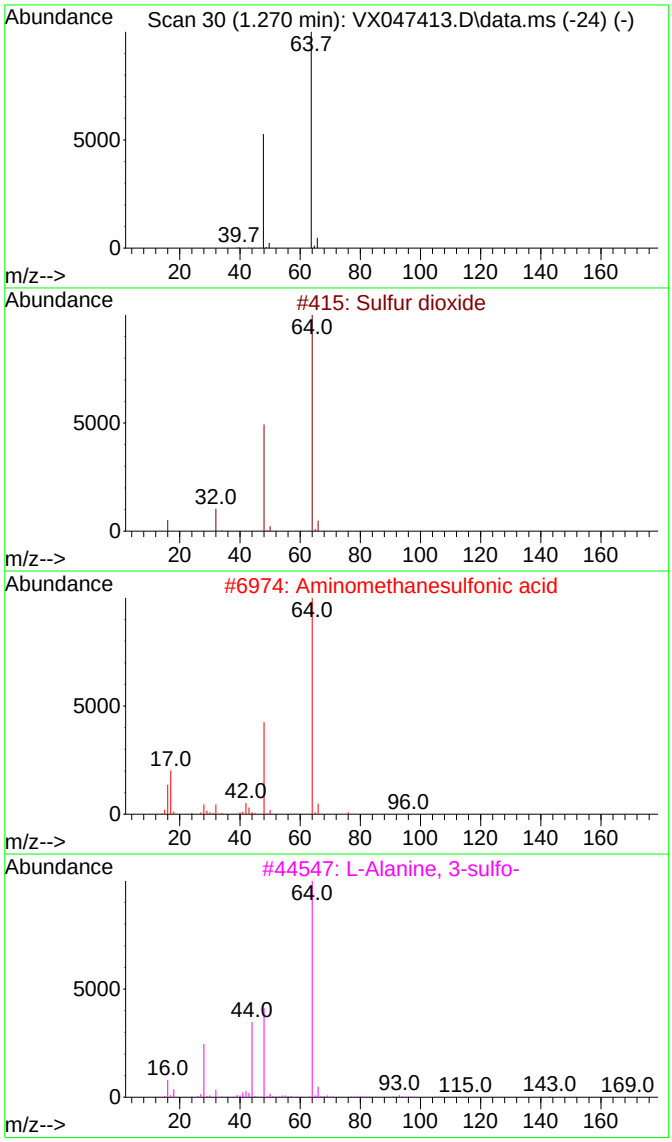
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

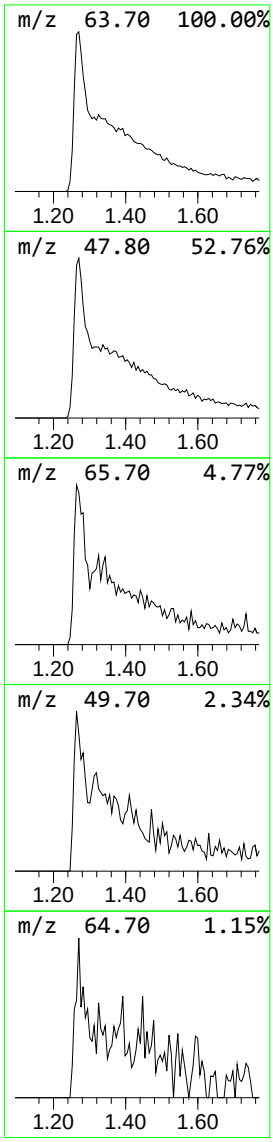
****

Peak Number 1 Sulfur dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.270	13.28 ug/l	173264	Pentafluorobenzene	5.568

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	83
2	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	74
3	L-Alanine, 3-sulfo-	169	C3H7NO5S	000498-40-8	9
4	Ethyl Chloride	64	C2H5Cl	000075-00-3	3
5	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	3





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047413.D
Acq On : 19 Aug 2025 15:32
Operator : JC/MD
Sample : Q2815-21
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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
Sulfur dioxide	1.270	13.3	ug/l	173264	1	5.568	652150	50.0

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-ERE	SDG No.:	Q2815
Lab Sample ID:	Q2815-21RE	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
VX047432.D	1	08/20/25 11:28	VX082025

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	15.8		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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-ERE	SDG No.:	Q2815
Lab Sample ID:	Q2815-21RE	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
VX047432.D	1	08/20/25 11:28	VX082025

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	59.6	*	81 - 118		119%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	51.9		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	58.5	*	85 - 114		117%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	289000	5.568				
540-36-3	1,4-Difluorobenzene	597000	6.769				
3114-55-4	Chlorobenzene-d5	600000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	299000	12.018				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-ERE	SDG No.:	Q2815
Lab Sample ID:	Q2815-21RE	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
VX047432.D	1	08/20/25 11:28	VX082025

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\VX082025\
Data File : VX047432.D
Acq On : 20 Aug 2025 11:28
Operator : JC/MD
Sample : Q2815-21RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-ERE

Quant Time: Aug 21 01:28:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

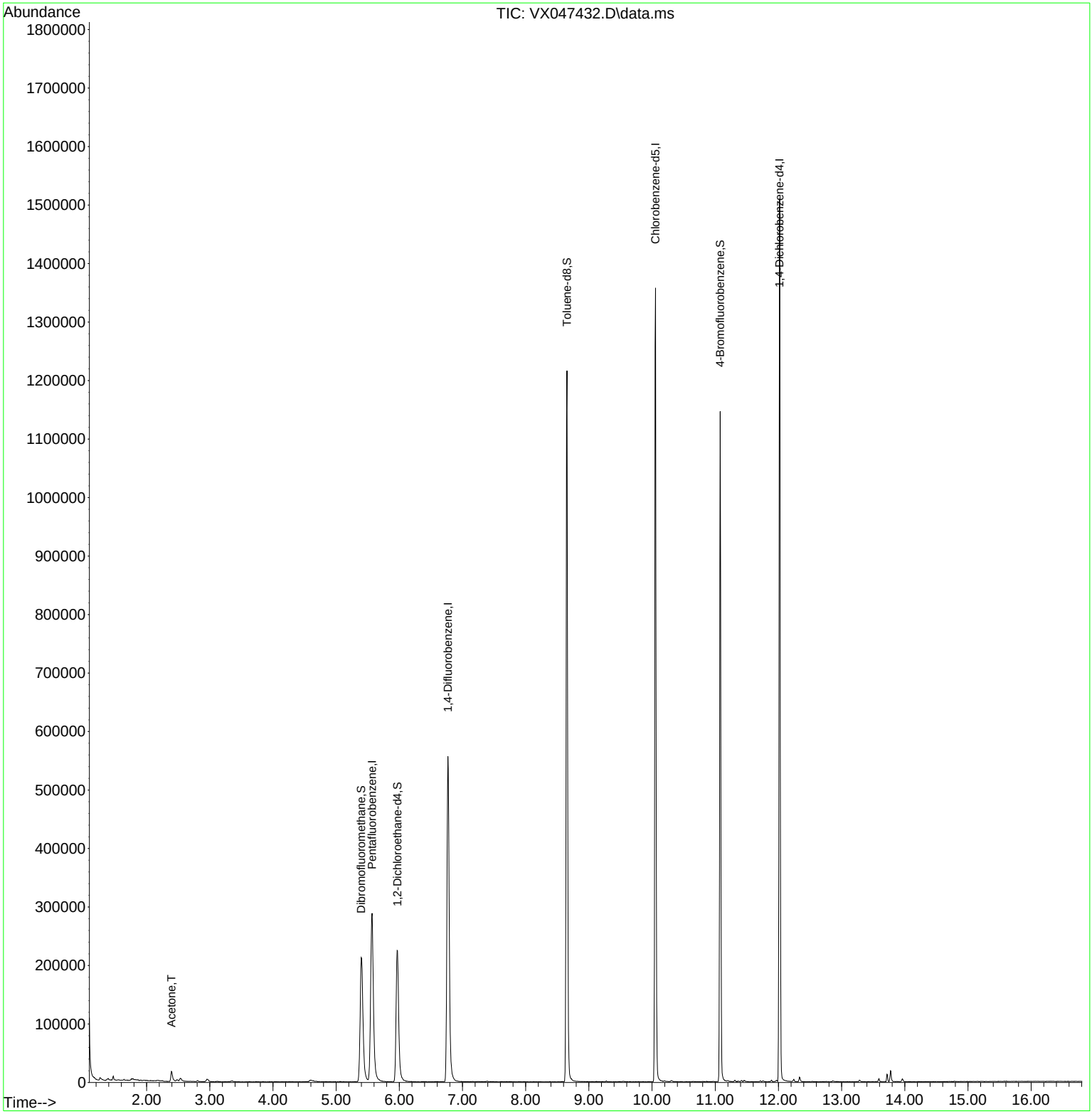
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	288810	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	596562	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	600326	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	298812	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	240940	59.609	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 119.220%#			
35) Dibromofluoromethane	5.397	113	204272	52.760	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.520%			
50) Toluene-d8	8.653	98	718573	51.925	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.860%			
62) 4-Bromofluorobenzene	11.079	95	298984	58.547	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 117.100%			
Target Compounds						Qvalue
16) Acetone	2.392	43	24055	15.833	ug/l	96

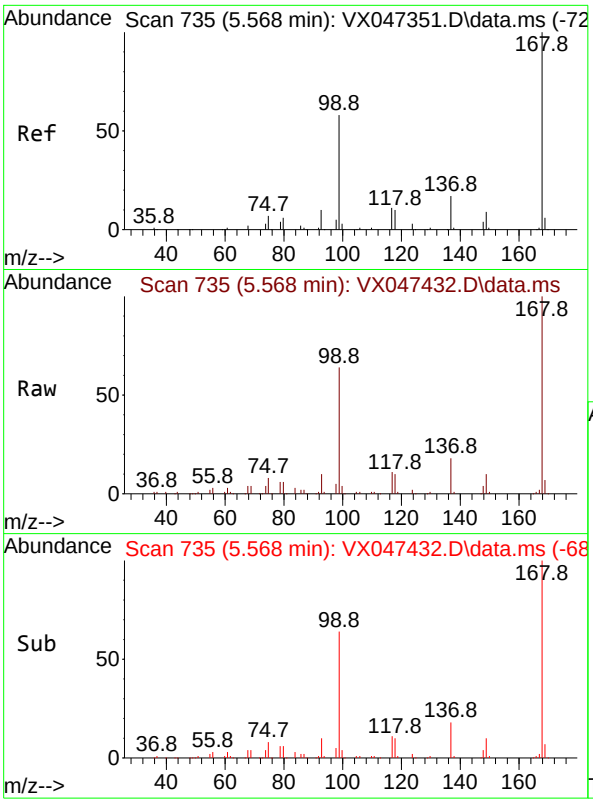
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047432.D
Acq On : 20 Aug 2025 11:28
Operator : JC/MD
Sample : Q2815-21RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-ERE

Quant Time: Aug 21 01:28:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



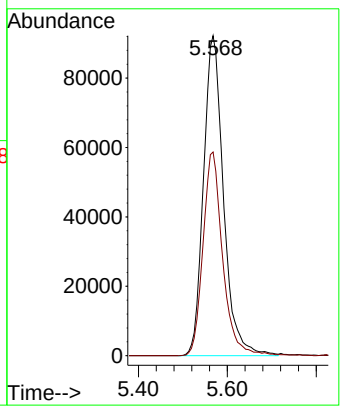


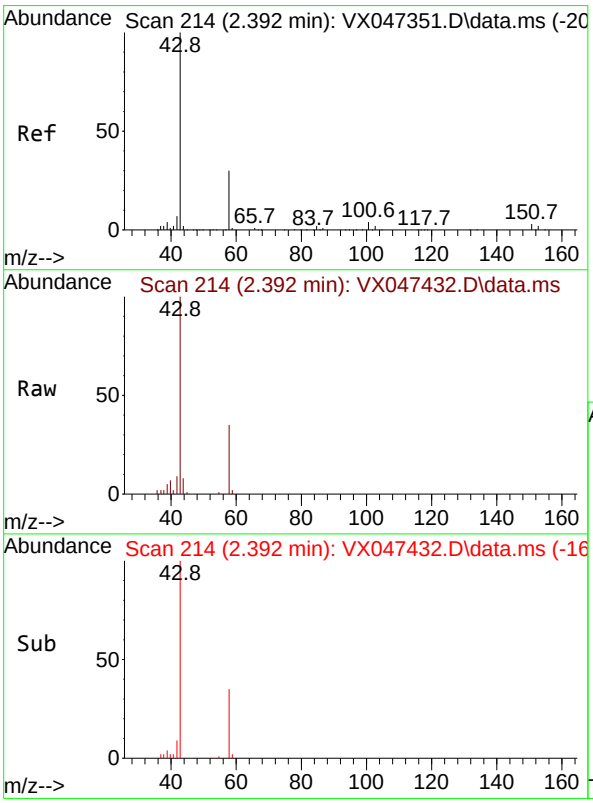
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-ERE

Tgt Ion:168 Resp: 288810

Ion	Ratio	Lower	Upper
168	100		
99	63.7	47.9	71.9

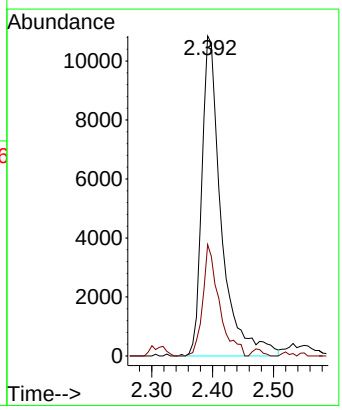


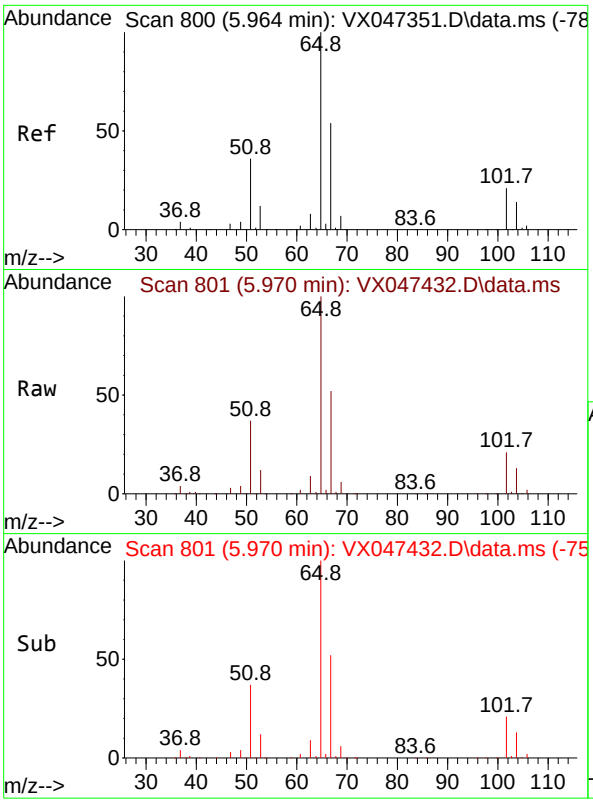


#16
Acetone
Concen: 15.833 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Tgt Ion: 43 Resp: 24055

Ion	Ratio	Lower	Upper
43	100		
58	32.9	24.8	37.2



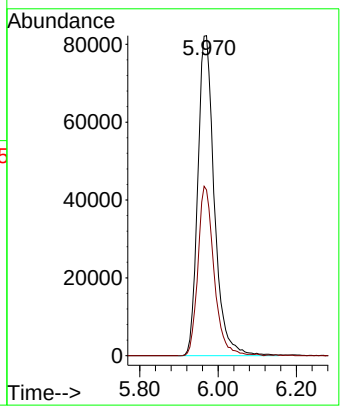


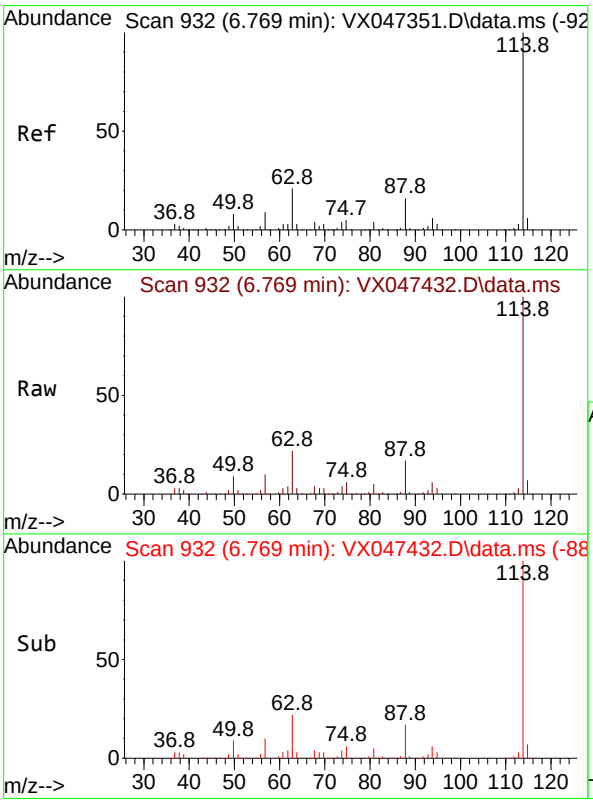
#33
1,2-Dichloroethane-d4
Concen: 59.609 ug/l
RT: 5.970 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-ERE

Tgt Ion: 65 Resp: 240940

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	106.0

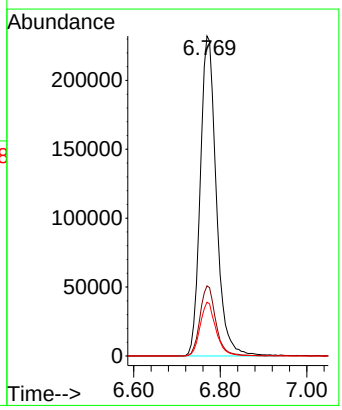


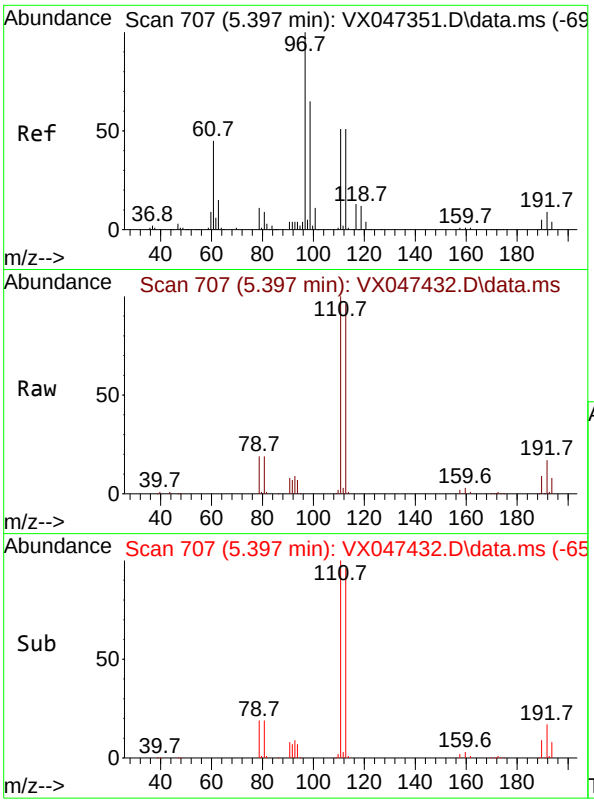


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Tgt Ion:114 Resp: 596562

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	42.4
88	16.8	0.0	33.0



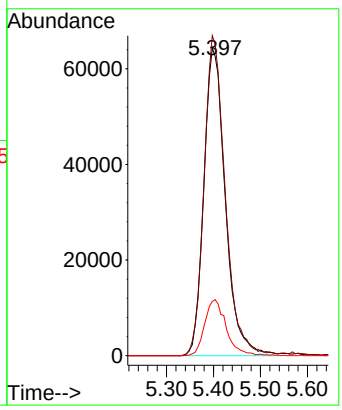


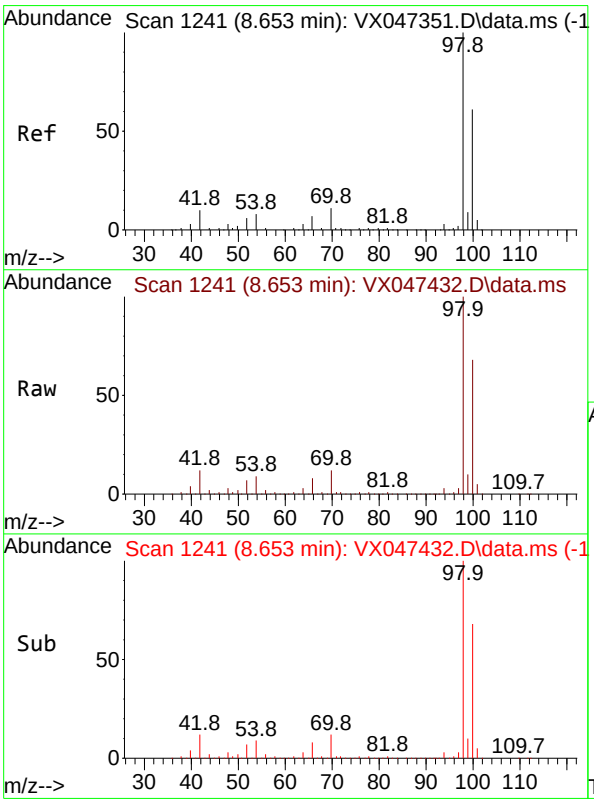
#35
Dibromofluoromethane
Concen: 52.760 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-ERE

Tgt Ion:113 Resp: 204272

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.4	122.2
192	18.3	14.1	21.1

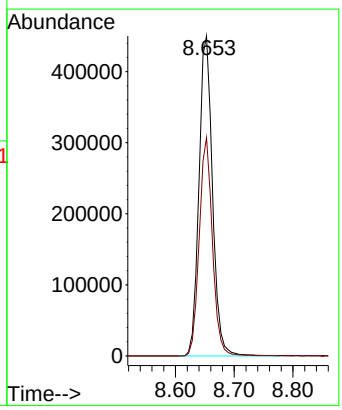


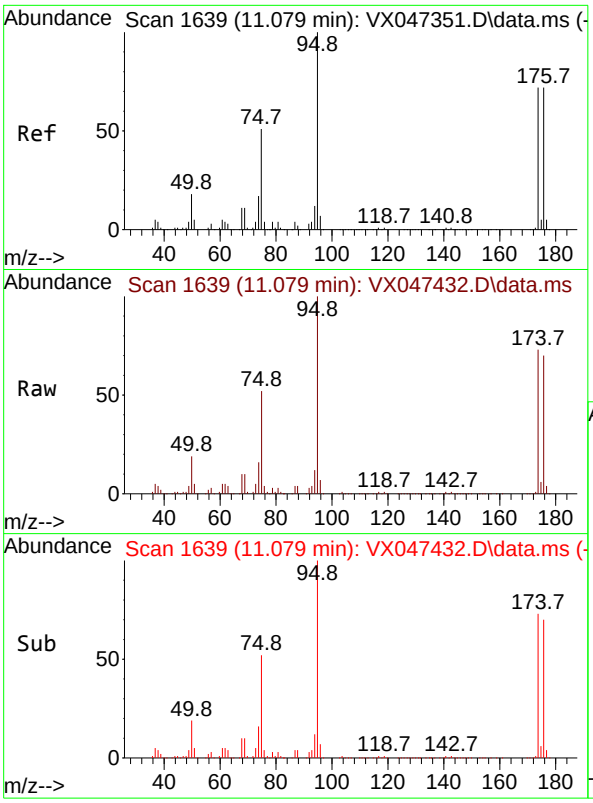


#50
Toluene-d8
Concen: 51.925 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Tgt Ion: 98 Resp: 718573

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.9	80.9



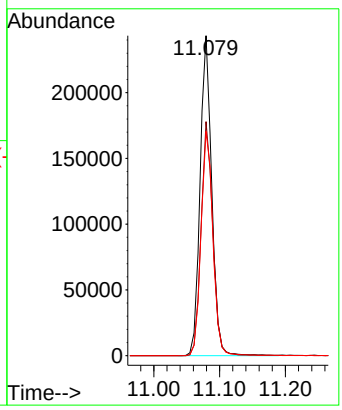


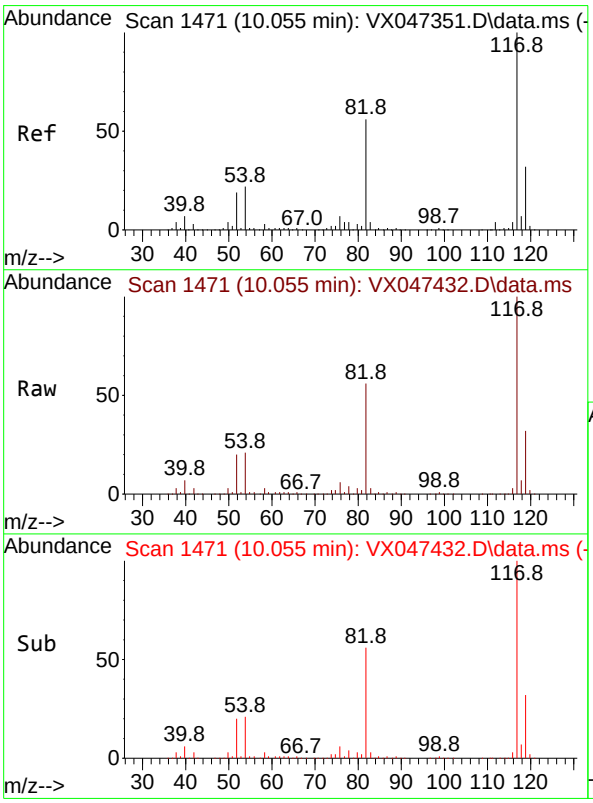
#62
4-Bromofluorobenzene
Concen: 58.547 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-ERE

Tgt Ion: 95 Resp: 298984

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	148.0
176	71.6	0.0	145.4

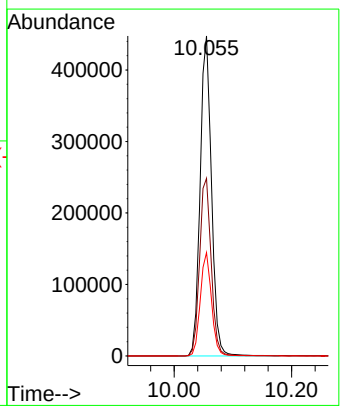


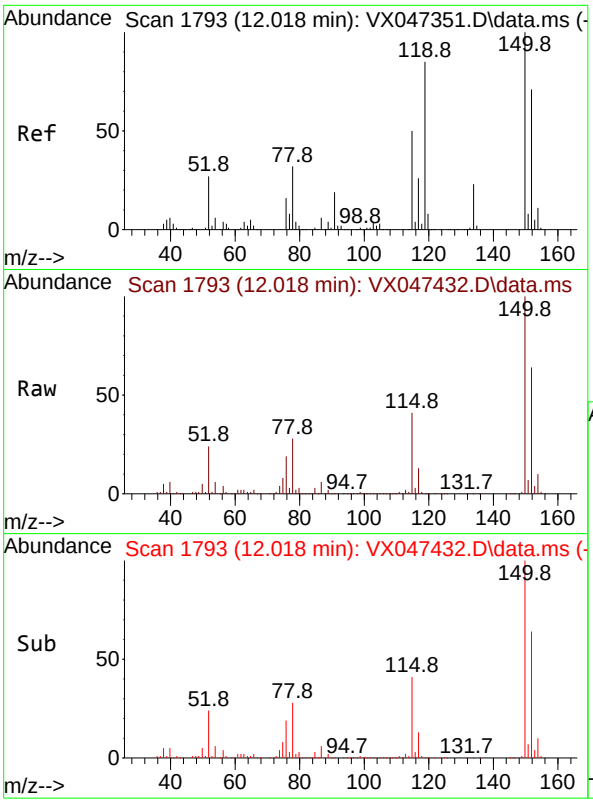


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Tgt Ion:117 Resp: 600326

Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.0	67.4
119	32.3	25.8	38.8



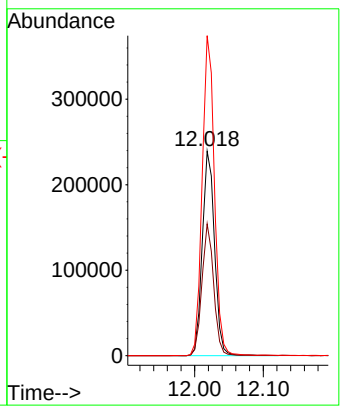


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-ERE

Tgt Ion:152 Resp: 298812

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.6	133.8
150	156.0	0.0	349.8



Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-22	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
VX047433.D	1	08/20/25 11:49	VX082025

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	5.00		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.77	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	0.50	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

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-22	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
VX047433.D	1	08/20/25 11:49	VX082025

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	54.9		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	51.4		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.7		85 - 114		111%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	275000	5.568				
540-36-3	1,4-Difluorobenzene	538000	6.769				
3114-55-4	Chlorobenzene-d5	528000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	265000	12.018				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-S	SDG No.:	Q2815
Lab Sample ID:	Q2815-22	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
VX047433.D	1	08/20/25 11:49	VX082025

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\VX082025\
Data File : VX047433.D
Acq On : 20 Aug 2025 11:49
Operator : JC/MD
Sample : Q2815-22
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-S

Quant Time: Aug 21 01:29:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

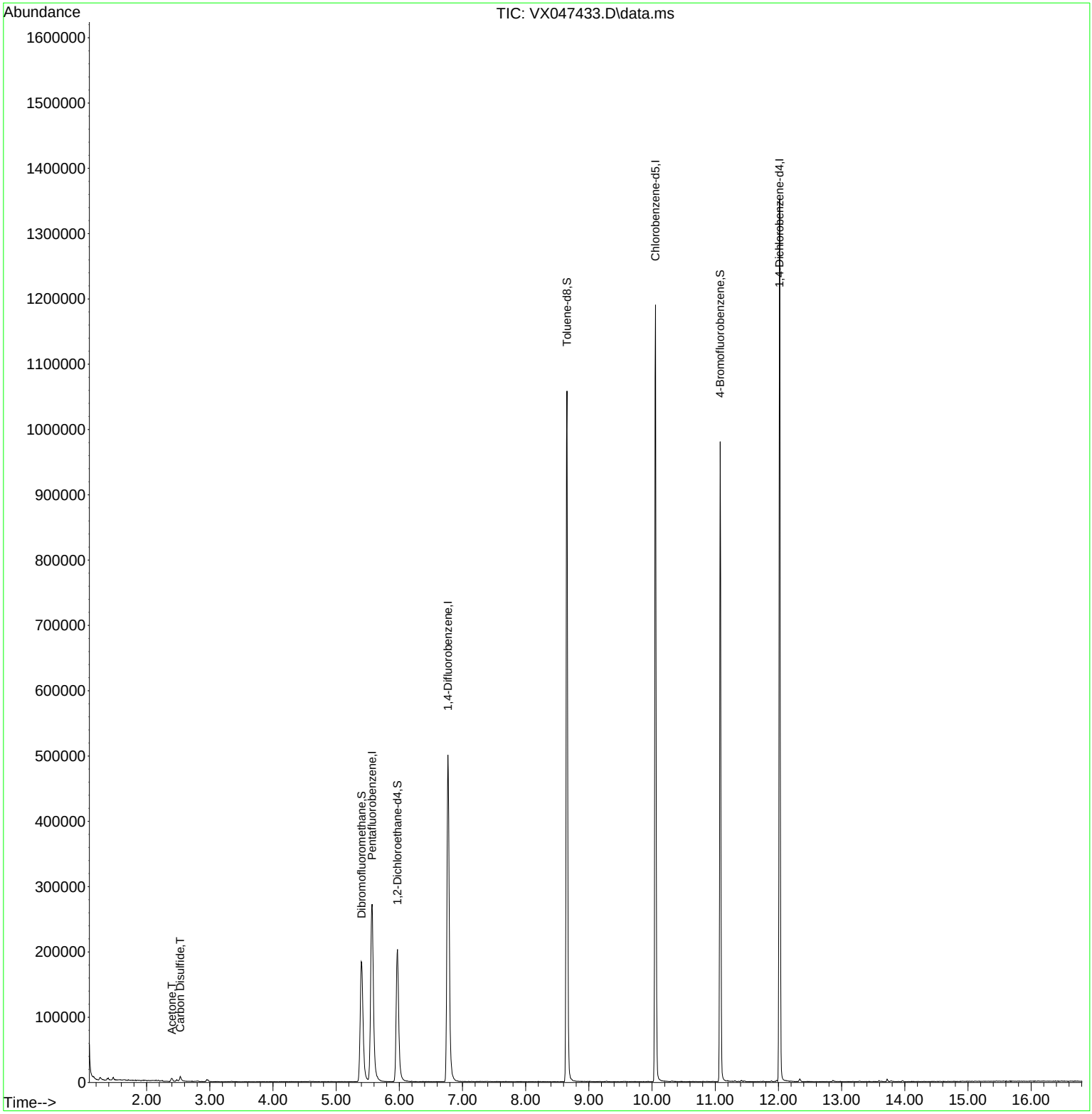
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	275255	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	538445	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	528308	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	264520	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.971	65	211576	54.922	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.840%			
35) Dibromofluoromethane	5.404	113	178714	51.141	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.280%			
50) Toluene-d8	8.653	98	641607	51.368	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.740%			
62) 4-Bromofluorobenzene	11.079	95	256712	55.695	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.400%			
Target Compounds						Qvalue
16) Acetone	2.398	43	7219	4.985	ug/l	96
17) Carbon Disulfide	2.532	76	8056	0.770	ug/l	99

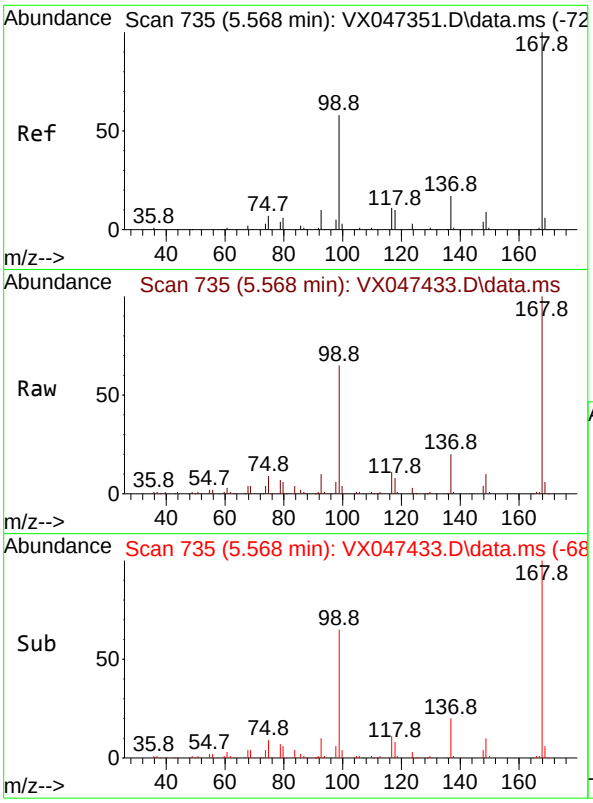
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047433.D
Acq On : 20 Aug 2025 11:49
Operator : JC/MD
Sample : Q2815-22
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-S

Quant Time: Aug 21 01:29:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



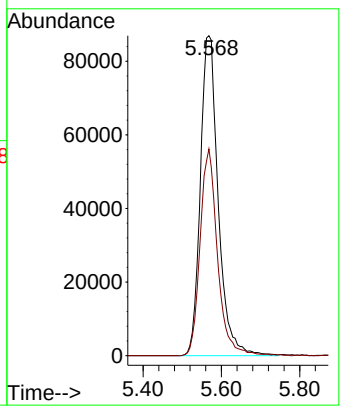


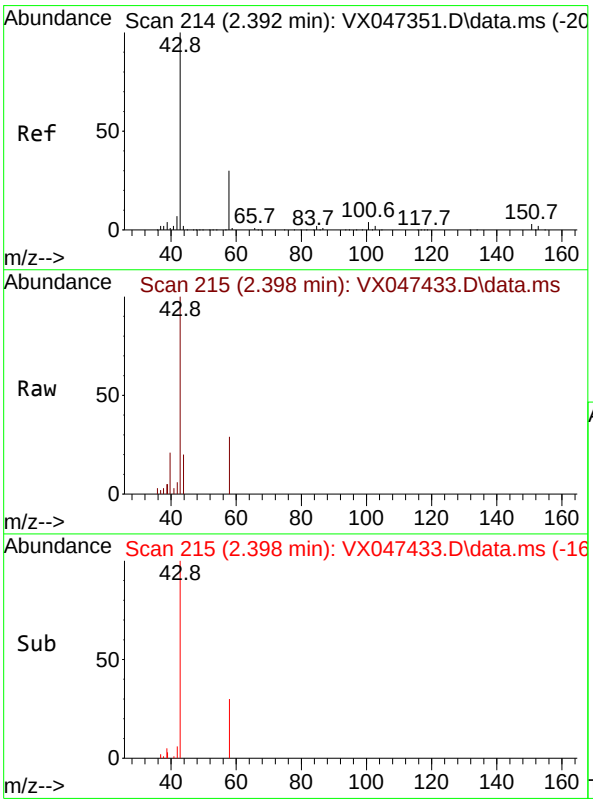
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047433.D
Acq: 20 Aug 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-S

Tgt Ion:168 Resp: 275255

Ion	Ratio	Lower	Upper
168	100		
99	64.6	47.9	71.9

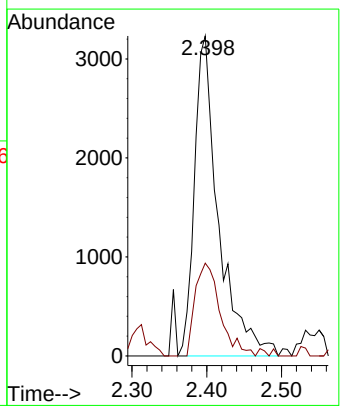


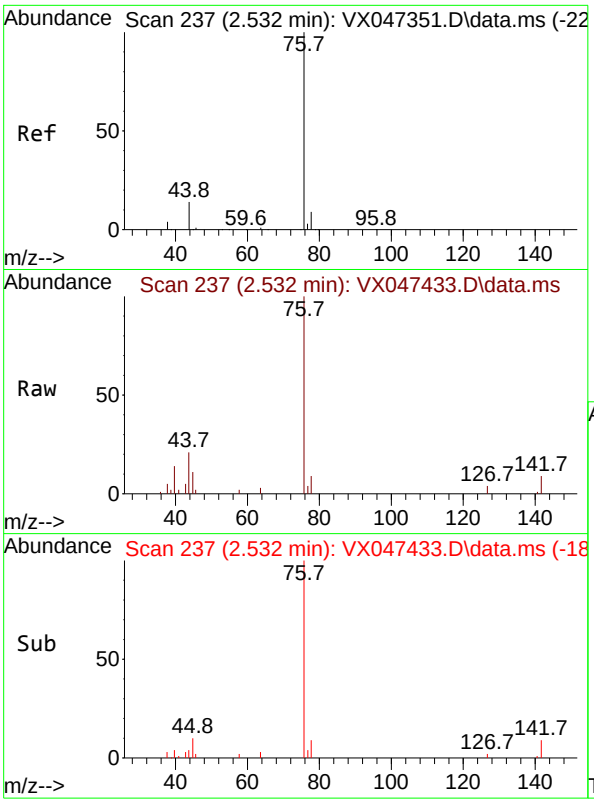


#16
Acetone
Concen: 4.985 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047433.D
Acq: 20 Aug 2025 11:49

Tgt Ion: 43 Resp: 7219

Ion	Ratio	Lower	Upper
43	100		
58	29.0	24.8	37.2



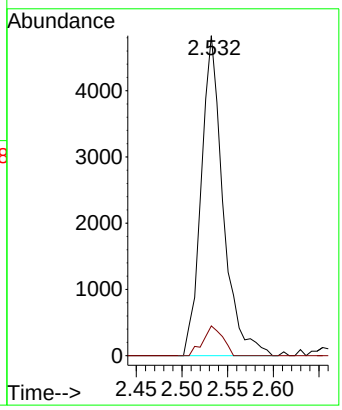


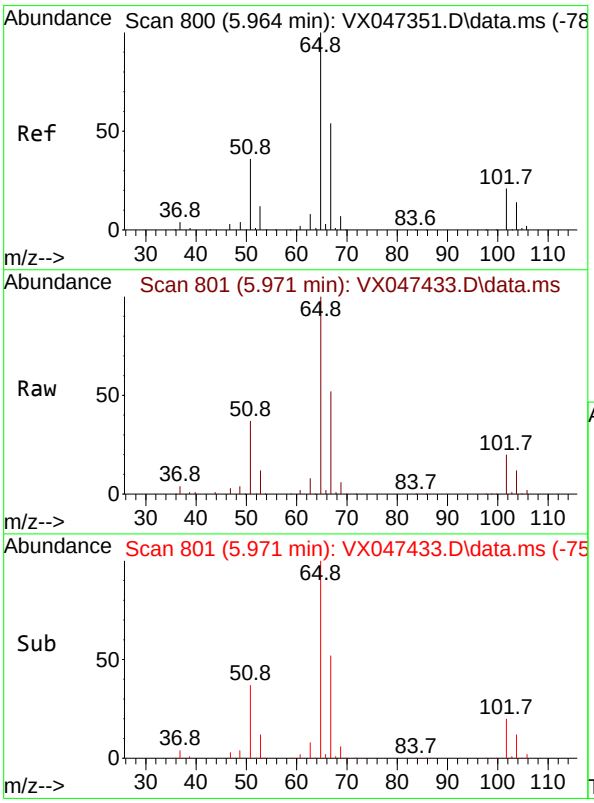
#17
Carbon Disulfide
Concen: 0.770 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047433.D
Acq: 20 Aug 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-S

Tgt Ion: 76 Resp: 8056

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8

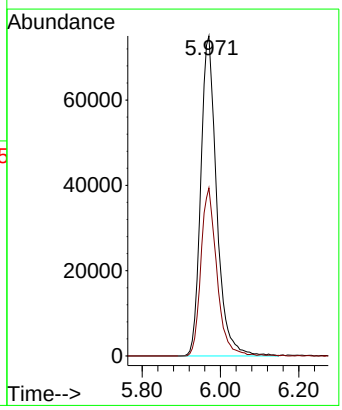


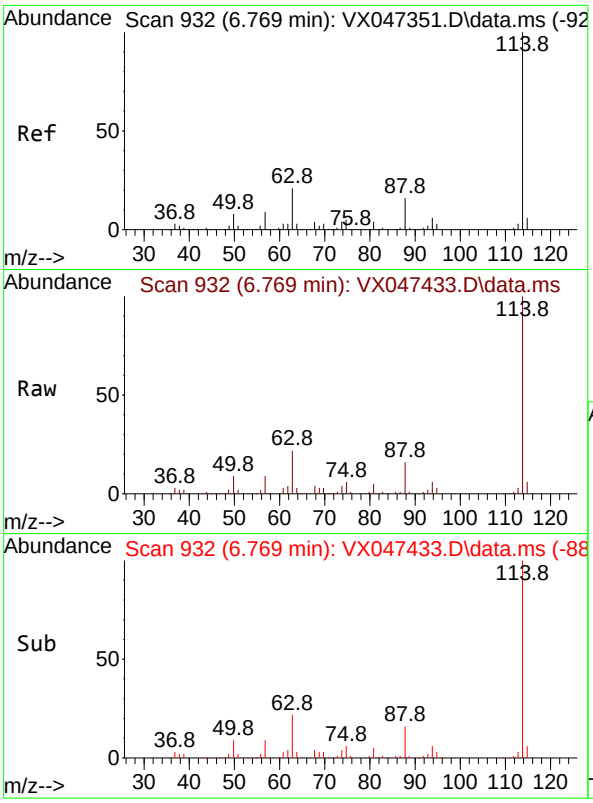


#33
1,2-Dichloroethane-d4
Concen: 54.922 ug/l
RT: 5.971 min Scan# 801
Delta R.T. 0.006 min
Lab File: VX047433.D
Acq: 20 Aug 2025 11:49

Tgt Ion: 65 Resp: 211576

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.0



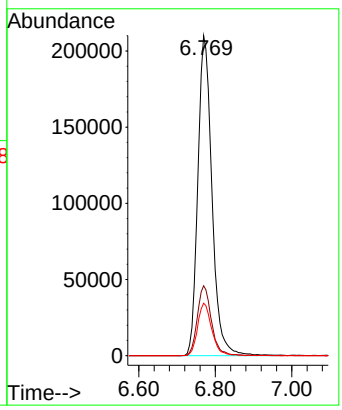


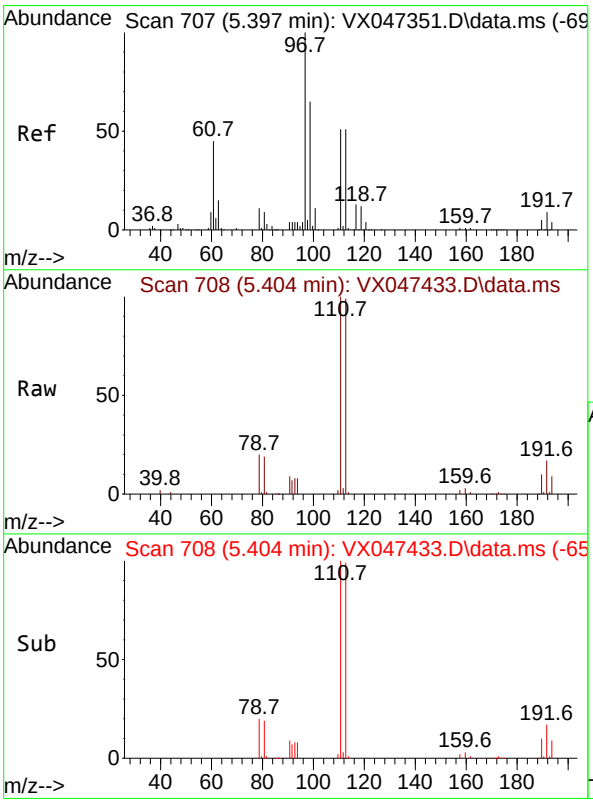
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047433.D
Acq: 20 Aug 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-S

Tgt Ion:114 Resp: 538445

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	42.4
88	16.4	0.0	33.0

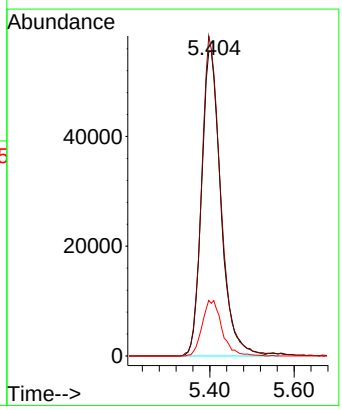


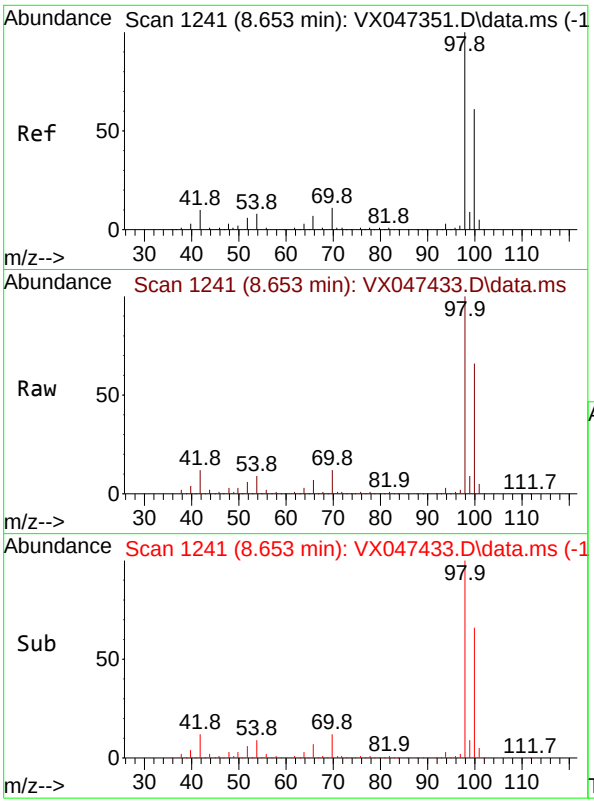


#35
Dibromofluoromethane
Concen: 51.141 ug/l
RT: 5.404 min Scan# 708
Delta R.T. 0.006 min
Lab File: VX047433.D
Acq: 20 Aug 2025 11:49

Tgt Ion:113 Resp: 178714

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.4	122.2
192	18.5	14.1	21.1



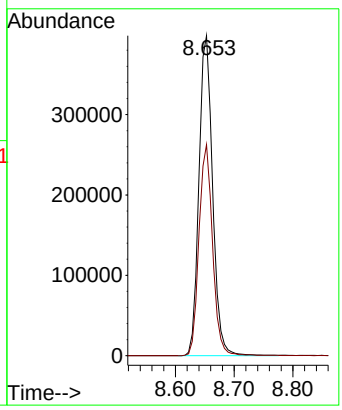


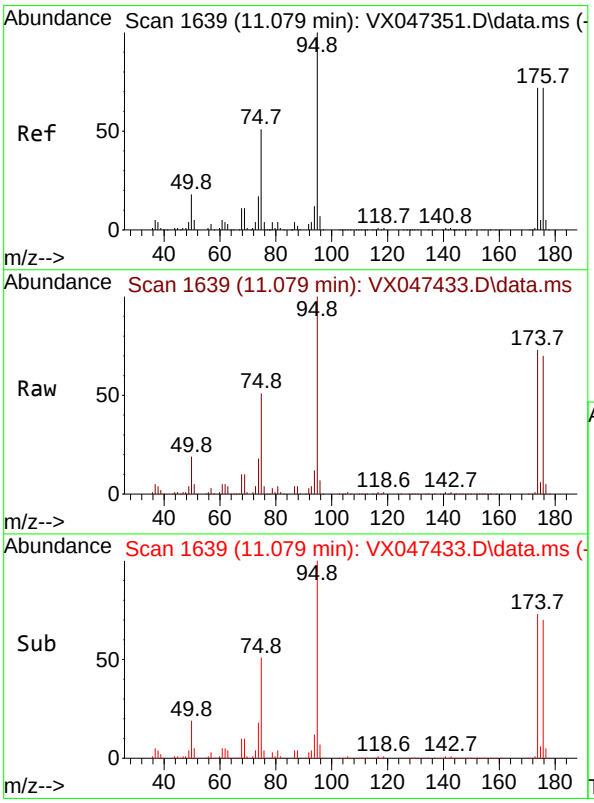
#50
Toluene-d8
Concen: 51.368 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047433.D
Acq: 20 Aug 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-S

Tgt Ion: 98 Resp: 641607

Ion	Ratio	Lower	Upper
98	100		
100	65.5	53.9	80.9

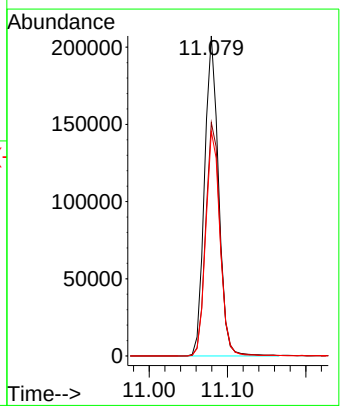


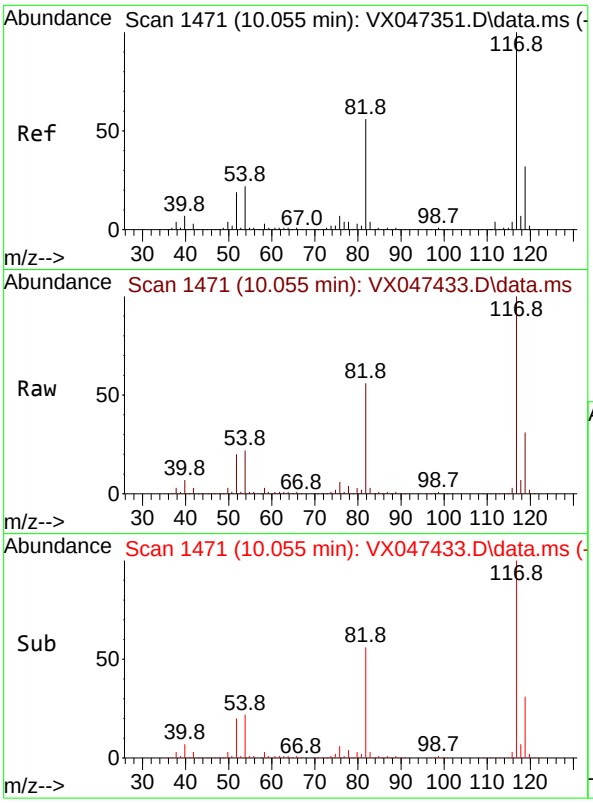


#62
4-Bromofluorobenzene
Concen: 55.695 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047433.D
Acq: 20 Aug 2025 11:49

Tgt Ion: 95 Resp: 256712

Ion	Ratio	Lower	Upper
95	100		
174	75.3	0.0	148.0
176	71.7	0.0	145.4



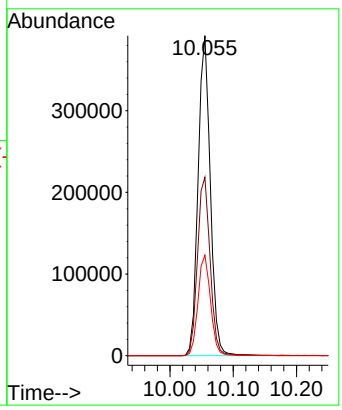


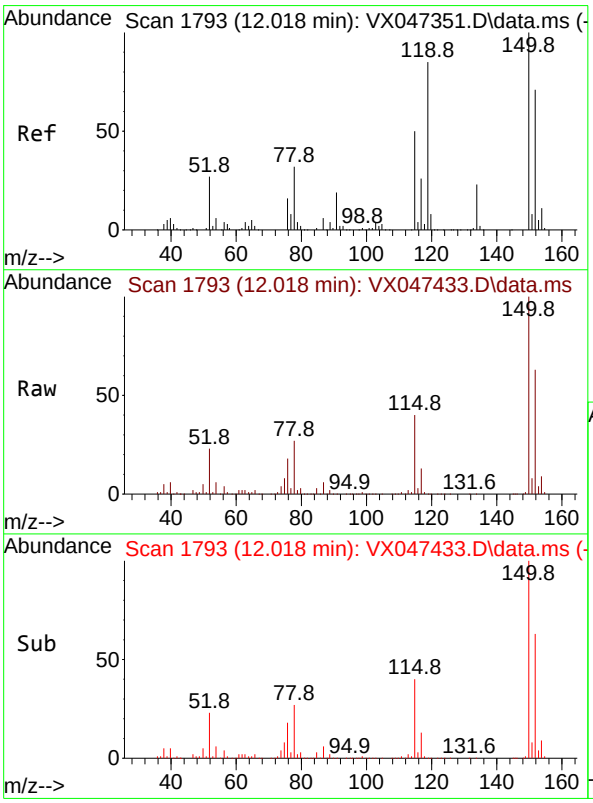
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047433.D
Acq: 20 Aug 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-S

Tgt Ion:117 Resp: 528308

Ion	Ratio	Lower	Upper
117	100		
82	55.7	45.0	67.4
119	31.4	25.8	38.8

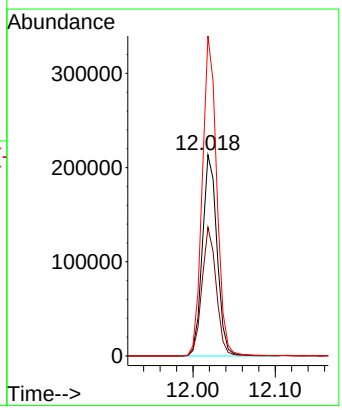




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047433.D
Acq: 20 Aug 2025 11:49

Tgt Ion:152 Resp: 264520

Ion	Ratio	Lower	Upper
152	100		
115	62.5	44.6	133.8
150	157.2	0.0	349.8



Sample Results: **VX047433.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047433.D
Acq On : 20 Aug 2025 11:49
Operator : JC/MD
Sample : Q2815-22
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-S

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047433.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.397	694	707	725	rBV3	183863	586074	34.01%	6.147%
2	5.568	725	735	759	rVB	271046	846564	49.12%	8.879%
3	5.971	790	801	822	rBV	202751	579969	33.65%	6.083%
4	6.769	923	932	953	rBV	500235	1278662	74.19%	13.411%
5	8.653	1234	1241	1260	rBV	1057857	1723486	100.00%	18.077%
6	10.055	1465	1471	1494	rBV	1189188	1648853	95.67%	17.294%
7	11.079	1634	1639	1653	rBV	979862	1224546	71.05%	12.844%
8	12.018	1788	1793	1807	rBV	1351356	1645963	95.50%	17.264%

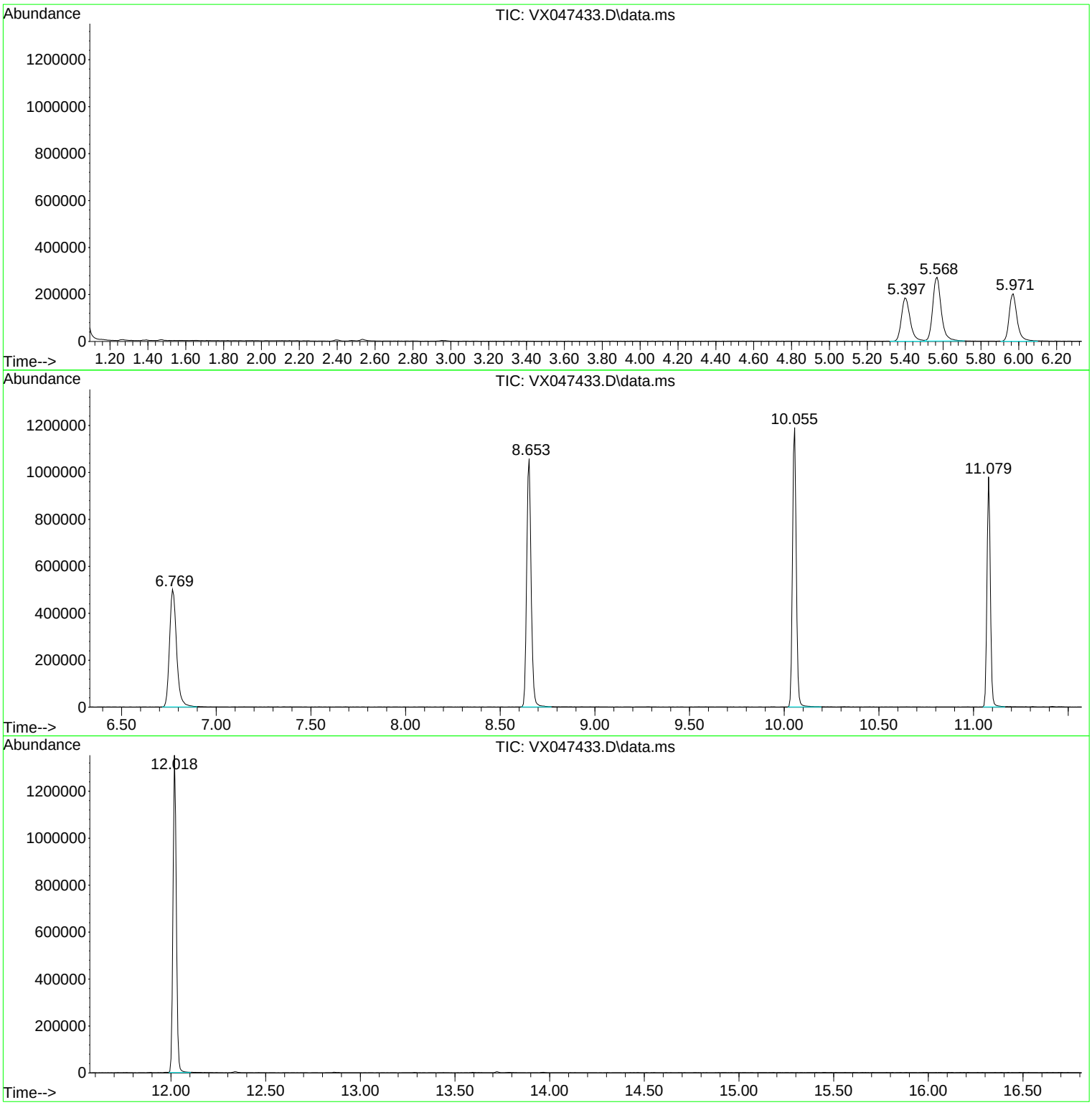
Sum of corrected areas: 9534117

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047433.D
Acq On : 20 Aug 2025 11:49
Operator : JC/MD
Sample : Q2815-22
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047433.D
Acq On : 20 Aug 2025 11:49
Operator : JC/MD
Sample : Q2815-22
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX082025\
Data File : VX047433.D
Acq On : 20 Aug 2025 11:49
Operator : JC/MD
Sample : Q2815-22
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-N	SDG No.:	Q2815
Lab Sample ID:	Q2815-23	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
VX047415.D	1	08/19/25 16:14	VX081925

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	11.6		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.41	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	0.50	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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-N	SDG No.:	Q2815
Lab Sample ID:	Q2815-23	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
VX047415.D	1	08/19/25 16:14	VX081925

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	0.39	J	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.53	J	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.7		81 - 118		117%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.3		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.1		85 - 114		114%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	204000	5.568				
540-36-3	1,4-Difluorobenzene	415000	6.769				
3114-55-4	Chlorobenzene-d5	422000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	219000	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TW-11M-N	SDG No.:	Q2815
Lab Sample ID:	Q2815-23	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
VX047415.D	1	08/19/25 16:14	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
95-63-6	1,2,4-Trimethylbenzene	0.38	J			11.8	ug/L
000496-11-7	Indane	26.1	J			12.2	ug/L
000090-12-0	Naphthalene, 1-methyl-	5.90	J			14.6	ug/L

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\VX081925\
Data File : VX047415.D
Acq On : 19 Aug 2025 16:14
Operator : JC/MD
Sample : Q2815-23
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

Quant Time: Aug 20 01:28:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

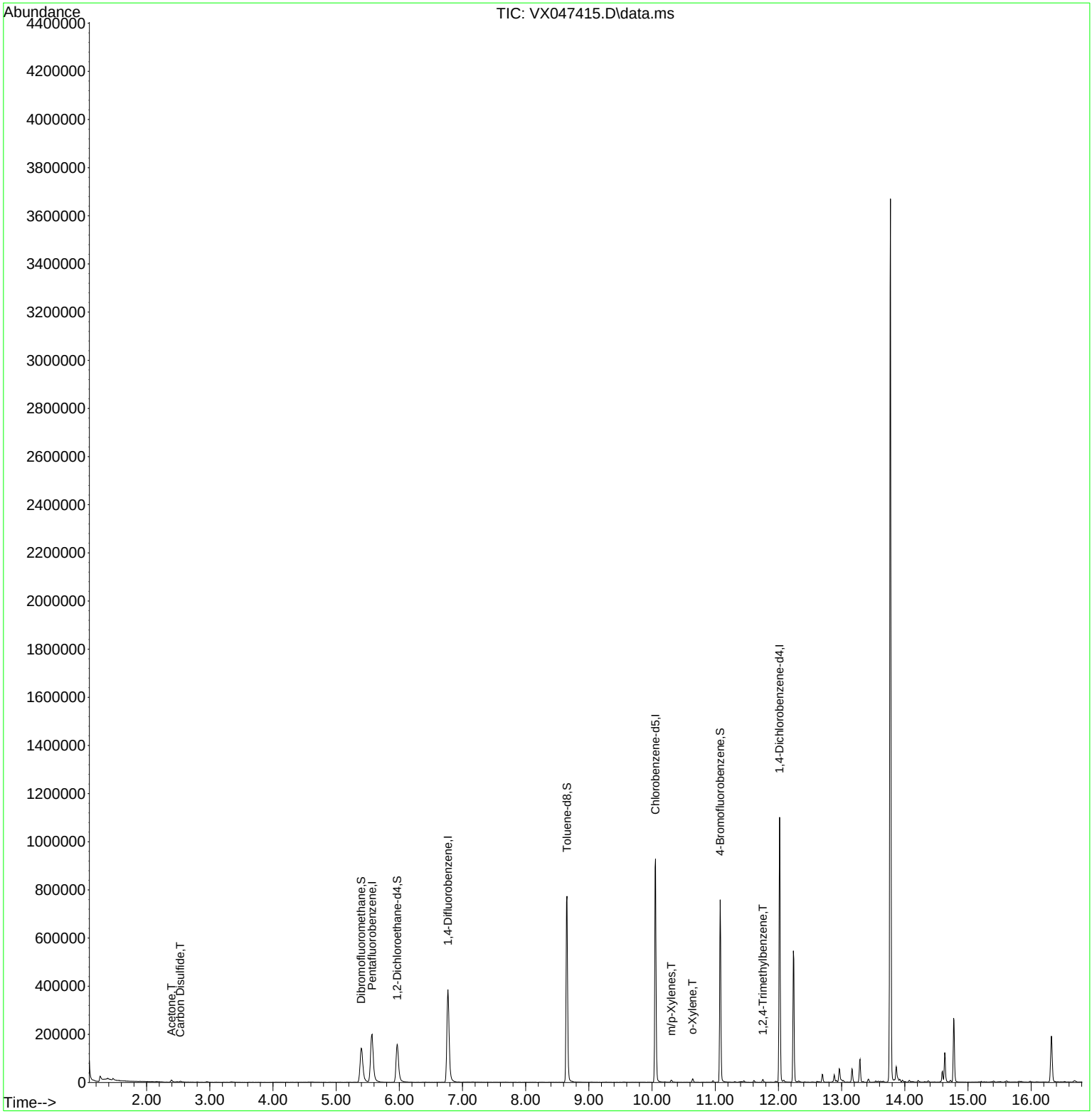
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	203899	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	414517	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	421598	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	218704	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	167475	58.688	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 117.380%#			
35) Dibromofluoromethane	5.397	113	137520	51.118	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.240%			
50) Toluene-d8	8.653	98	474287	49.324	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.640%			
62) 4-Bromofluorobenzene	11.079	95	202773	57.145	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 114.300%			
Target Compounds						Qvalue
16) Acetone	2.392	43	12413	11.573	ug/l	98
17) Carbon Disulfide	2.532	76	3150	0.407	ug/l #	83
68) m/p-Xylenes	10.305	106	2499	0.389	ug/l	98
69) o-Xylene	10.640	106	3247	0.525	ug/l	95
84) 1,2,4-Trimethylbenzene	11.756	105	5362	0.381	ug/l	92

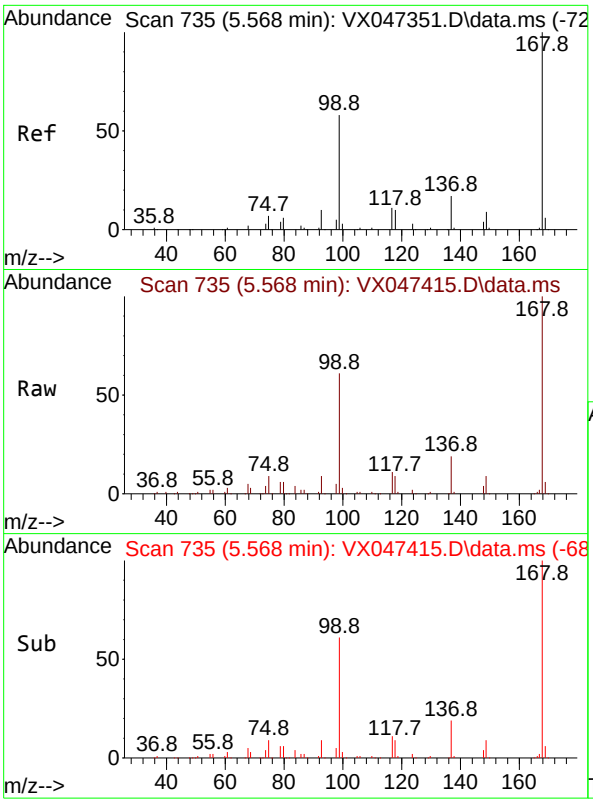
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047415.D
Acq On : 19 Aug 2025 16:14
Operator : JC/MD
Sample : Q2815-23
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

Quant Time: Aug 20 01:28:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



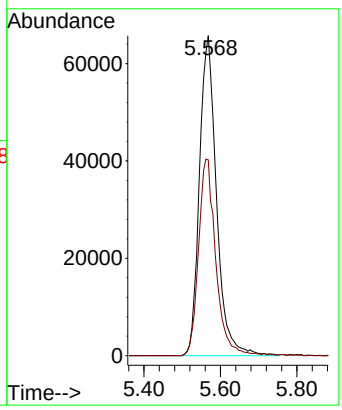


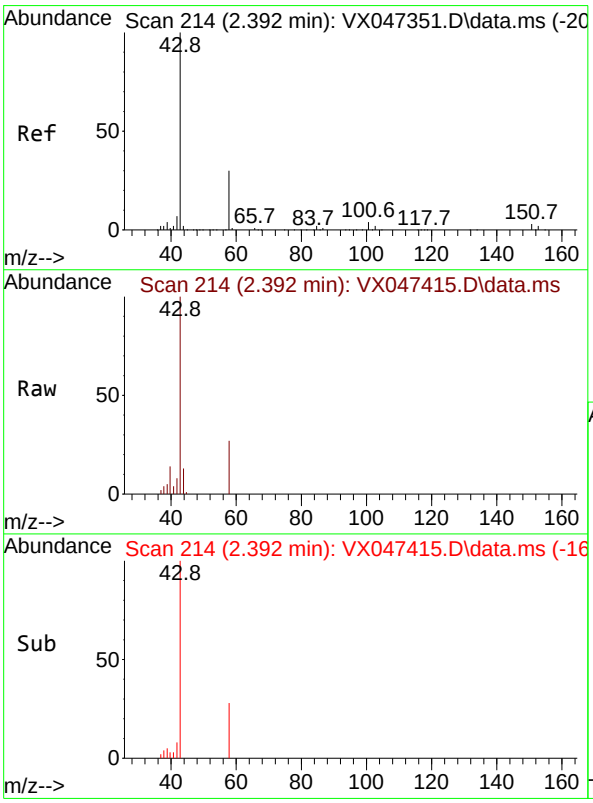
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047415.D
Acq: 19 Aug 2025 16:14

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

Tgt Ion:168 Resp: 203899

Ion	Ratio	Lower	Upper
168	100		
99	61.2	47.9	71.9

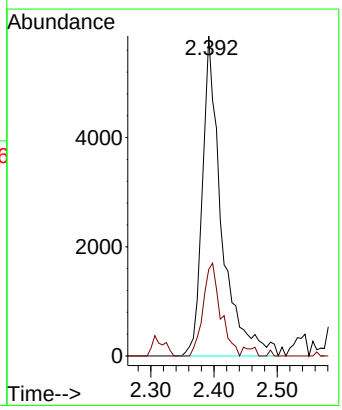


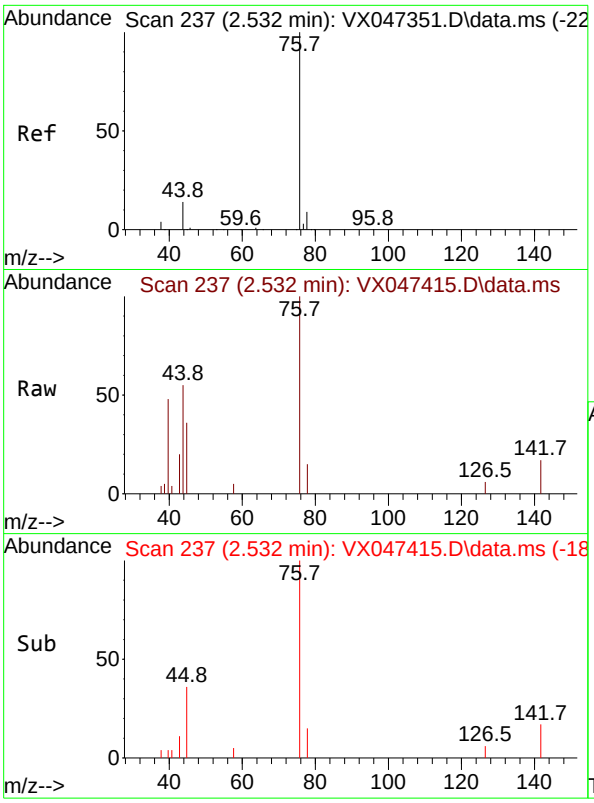


#16
Acetone
Concen: 11.573 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047415.D
Acq: 19 Aug 2025 16:14

Tgt Ion: 43 Resp: 12413

Ion	Ratio	Lower	Upper
43	100		
58	30.0	24.8	37.2



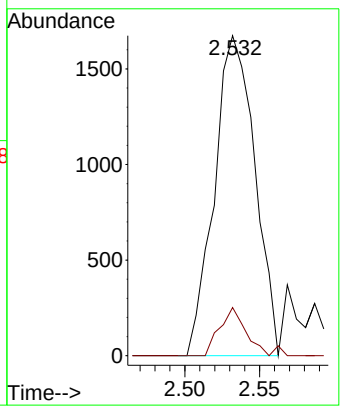


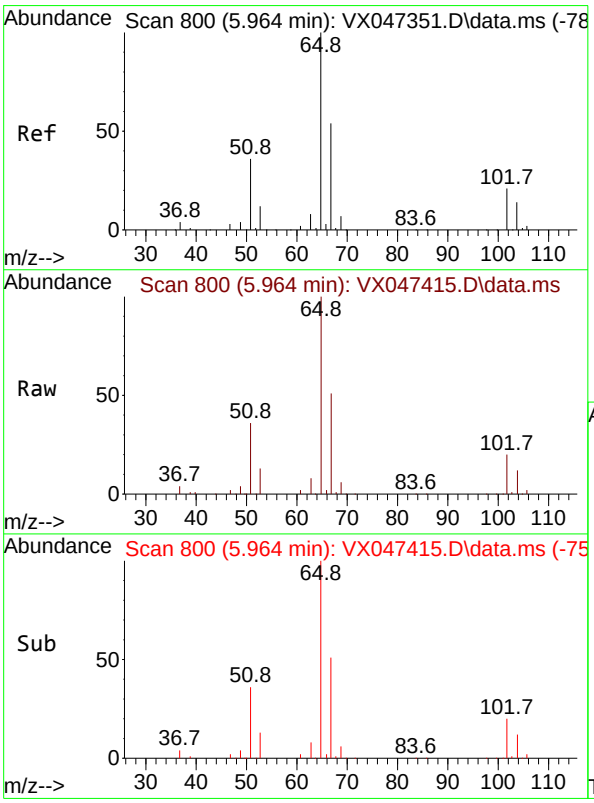
#17
Carbon Disulfide
Concen: 0.407 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047415.D
Acq: 19 Aug 2025 16:14

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

Tgt Ion: 76 Resp: 3150

Ion	Ratio	Lower	Upper
76	100		
78	15.1	7.2	10.8#

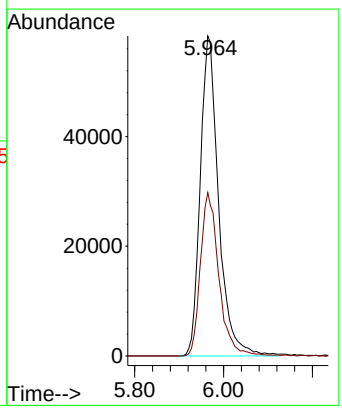


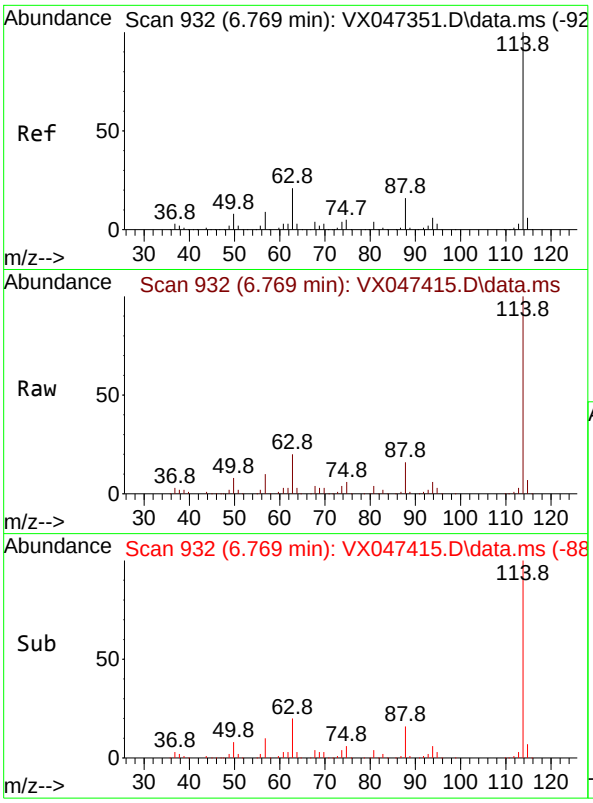


#33
1,2-Dichloroethane-d4
Concen: 58.688 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047415.D
Acq: 19 Aug 2025 16:14

Tgt Ion: 65 Resp: 167475

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	106.0



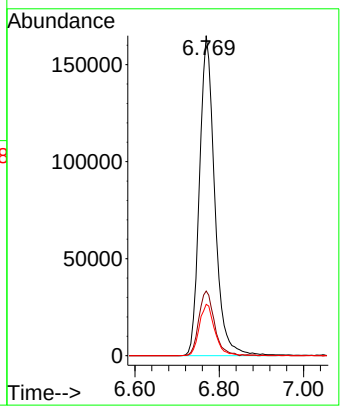


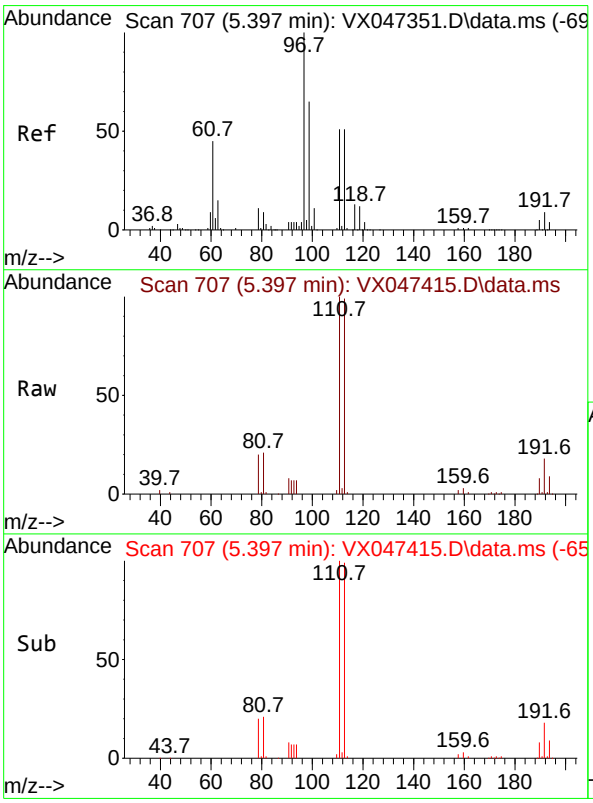
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047415.D
Acq: 19 Aug 2025 16:14

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

Tgt Ion:114 Resp: 414517

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.4
88	16.1	0.0	33.0

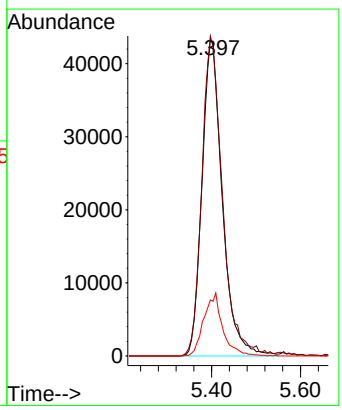


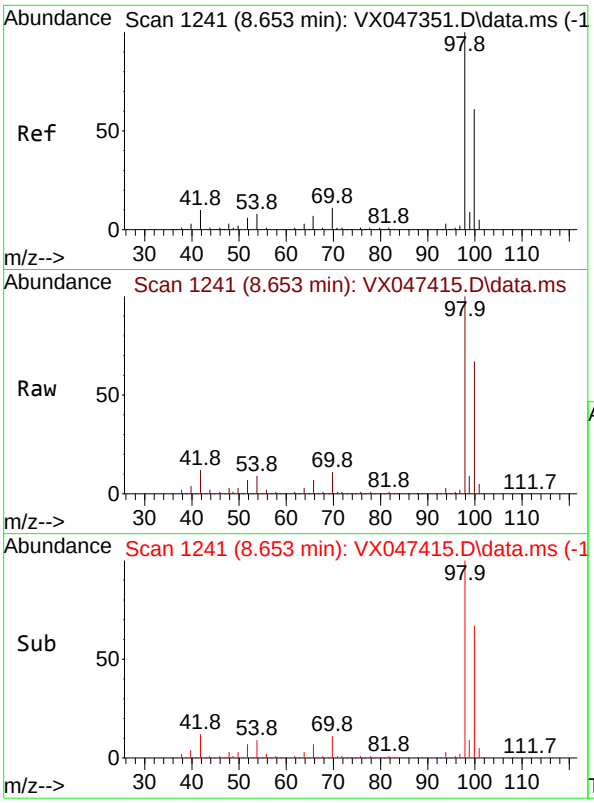


#35
Dibromofluoromethane
Concen: 51.118 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047415.D
Acq: 19 Aug 2025 16:14

Tgt Ion:113 Resp: 137520

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.4	122.2
192	18.5	14.1	21.1



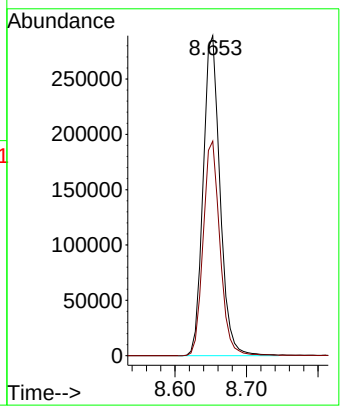


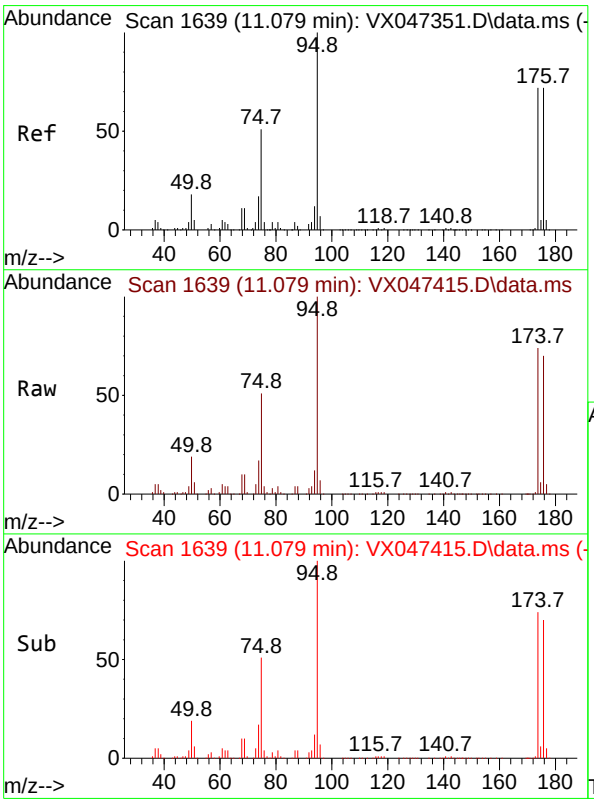
#50
Toluene-d8
Concen: 49.324 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047415.D
Acq: 19 Aug 2025 16:14

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

Tgt Ion: 98 Resp: 474287

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.9	80.9

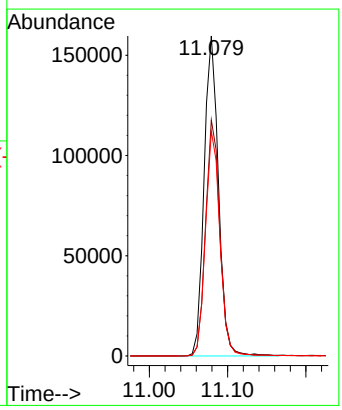


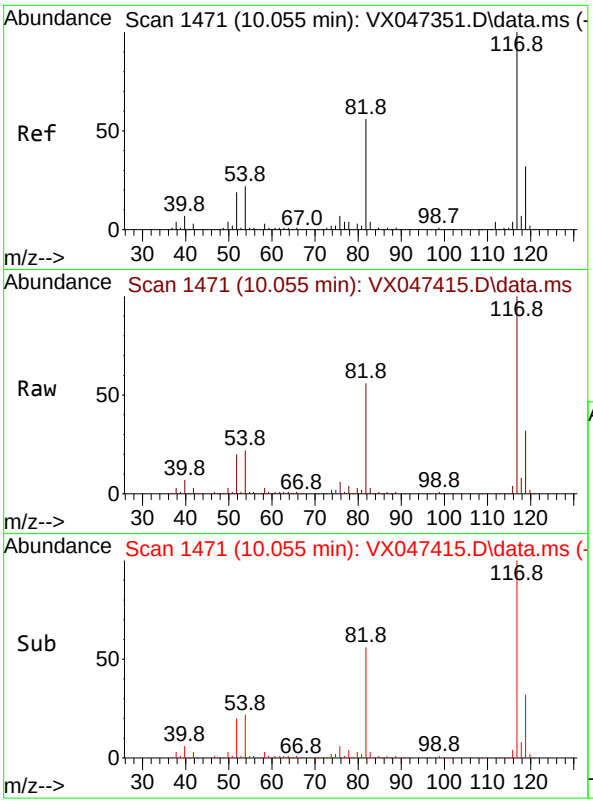


#62
4-Bromofluorobenzene
Concen: 57.145 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047415.D
Acq: 19 Aug 2025 16:14

Tgt Ion: 95 Resp: 202773

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	148.0
176	70.7	0.0	145.4



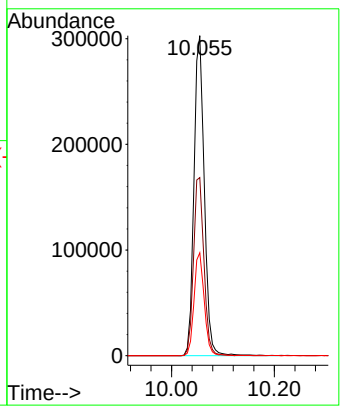


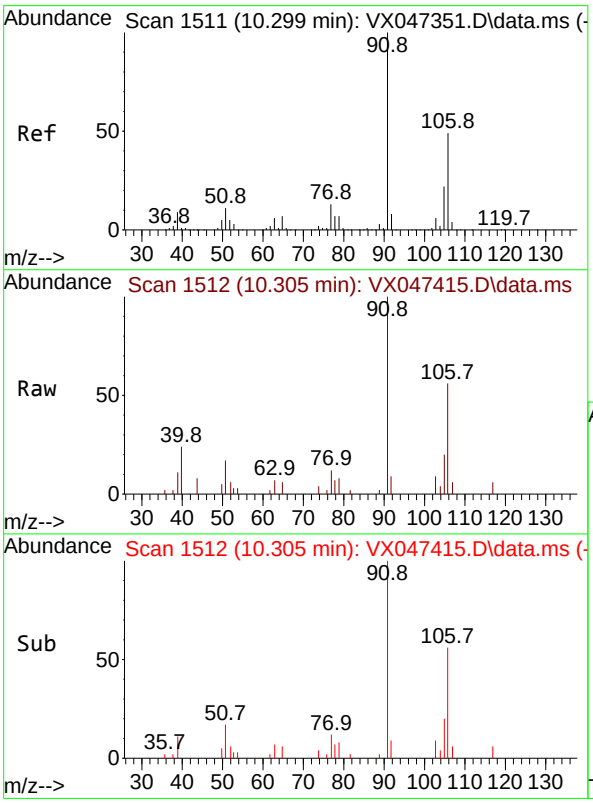
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047415.D
Acq: 19 Aug 2025 16:14

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

Tgt Ion:117 Resp: 421598

Ion	Ratio	Lower	Upper
117	100		
82	55.6	45.0	67.4
119	32.2	25.8	38.8

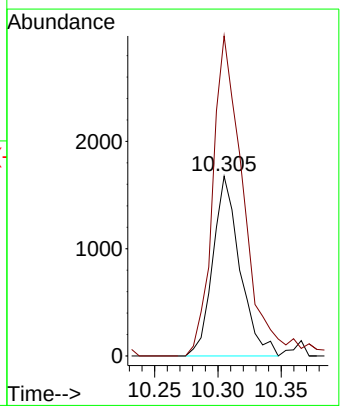


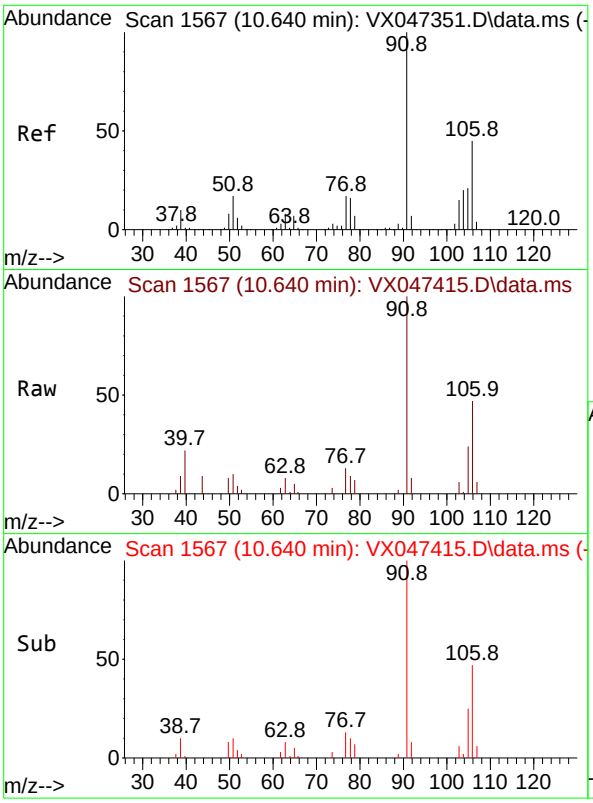


#68
m/p-Xylenes
Concen: 0.389 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX047415.D
Acq: 19 Aug 2025 16:14

Tgt Ion:106 Resp: 2499

Ion	Ratio	Lower	Upper
106	100		
91	203.5	164.7	247.1



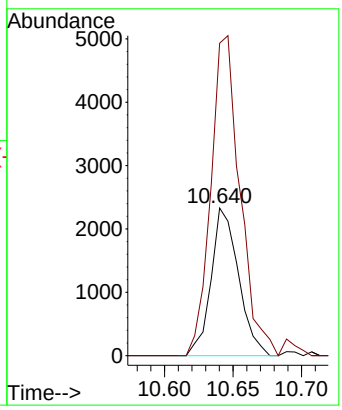


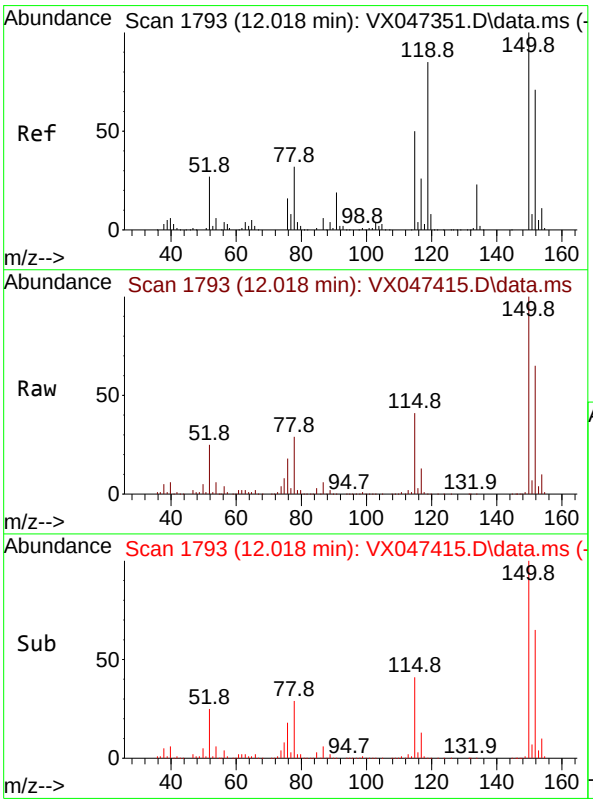
#69
o-Xylene
Concen: 0.525 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047415.D
Acq: 19 Aug 2025 16:14

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

Tgt Ion:106 Resp: 3247

Ion	Ratio	Lower	Upper
106	100		
91	230.1	110.6	331.8

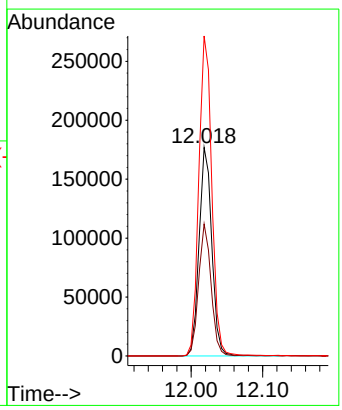


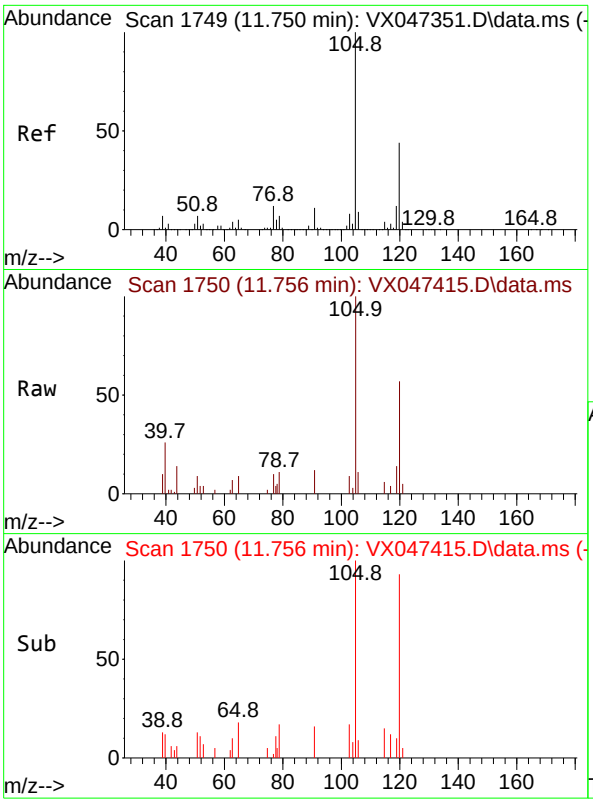


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047415.D
Acq: 19 Aug 2025 16:14

Tgt Ion:152 Resp: 218704

Ion	Ratio	Lower	Upper
152	100		
115	62.2	44.6	133.8
150	156.1	0.0	349.8



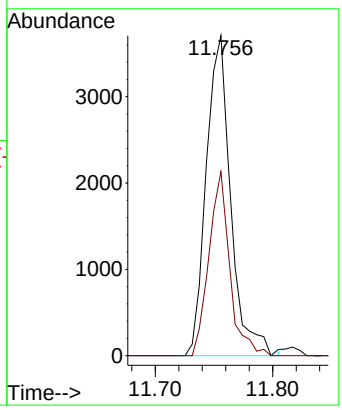


#84
1,2,4-Trimethylbenzene
Concen: 0.381 ug/l
RT: 11.756 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047415.D
Acq: 19 Aug 2025 16:14

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

Tgt Ion:105 Resp: 5362

Ion	Ratio	Lower	Upper
105	100		
120	49.0	21.9	65.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047415.D
Acq On : 19 Aug 2025 16:14
Operator : JC/MD
Sample : Q2815-23
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047415.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	25	29	37	rBV	22128	52599	1.16%	0.375%
2	5.397	696	707	724	rBV3	141270	452047	9.93%	3.219%
3	5.568	724	735	758	rVB	198375	621607	13.65%	4.426%
4	5.964	790	800	822	rBV	157011	462094	10.15%	3.290%
5	6.769	922	932	949	rBV	385177	978063	21.48%	6.964%
6	8.653	1234	1241	1252	rBV	772653	1283632	28.19%	9.140%
7	10.055	1465	1471	1490	rBV	928352	1309138	28.75%	9.322%
8	11.079	1634	1639	1657	rBV	757355	965498	21.21%	6.875%
9	12.018	1788	1793	1801	rBV	1099829	1354506	29.75%	9.645%
10	12.237	1824	1829	1838	rBV	545161	707336	15.54%	5.037%
11	12.963	1944	1948	1957	rBV2	54558	93436	2.05%	0.665%
12	13.164	1976	1981	1990	rBV	55143	74066	1.63%	0.527%
13	13.292	1996	2002	2007	rBV2	94164	125225	2.75%	0.892%
14	13.774	2073	2081	2089	rBV	3668871	4552828	100.00%	32.419%
15	13.865	2092	2096	2103	rVB	56595	87961	1.93%	0.626%
16	14.597	2211	2216	2219	rBV	42997	56195	1.23%	0.400%
17	14.633	2219	2222	2233	rVB	122256	158871	3.49%	1.131%
18	14.774	2241	2245	2254	rVB	264759	365812	8.03%	2.605%
19	16.322	2491	2499	2508	rBV	190982	342782	7.53%	2.441%

Sum of corrected areas: 14043696

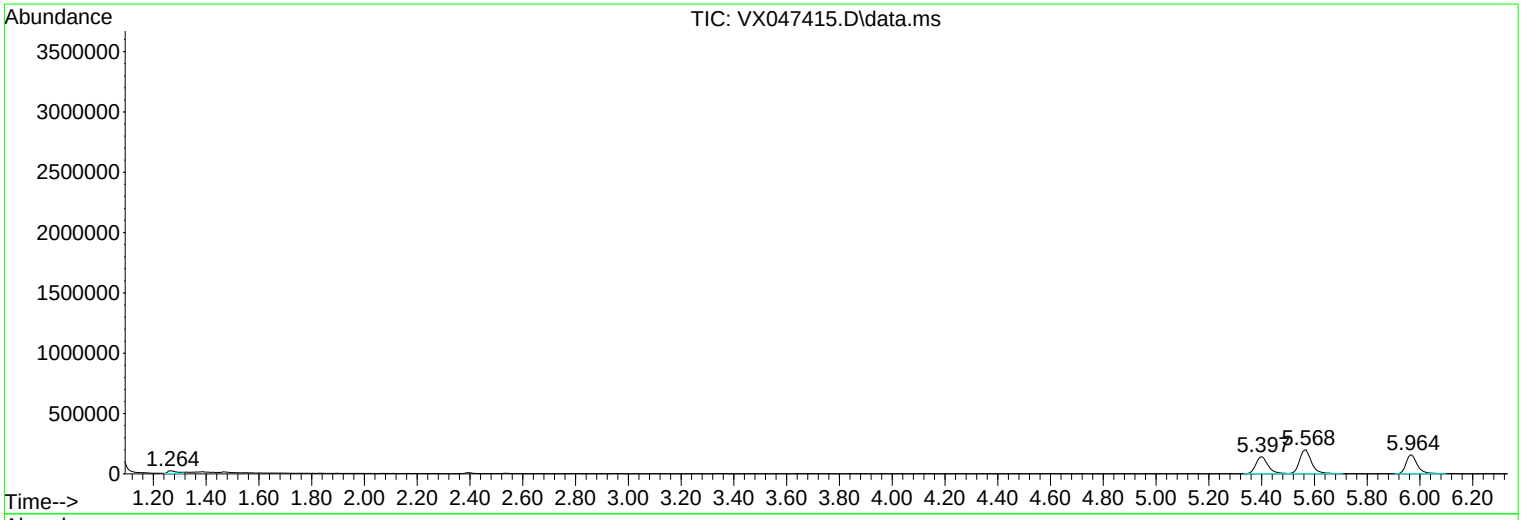
Sample Results: **VX047415.D**

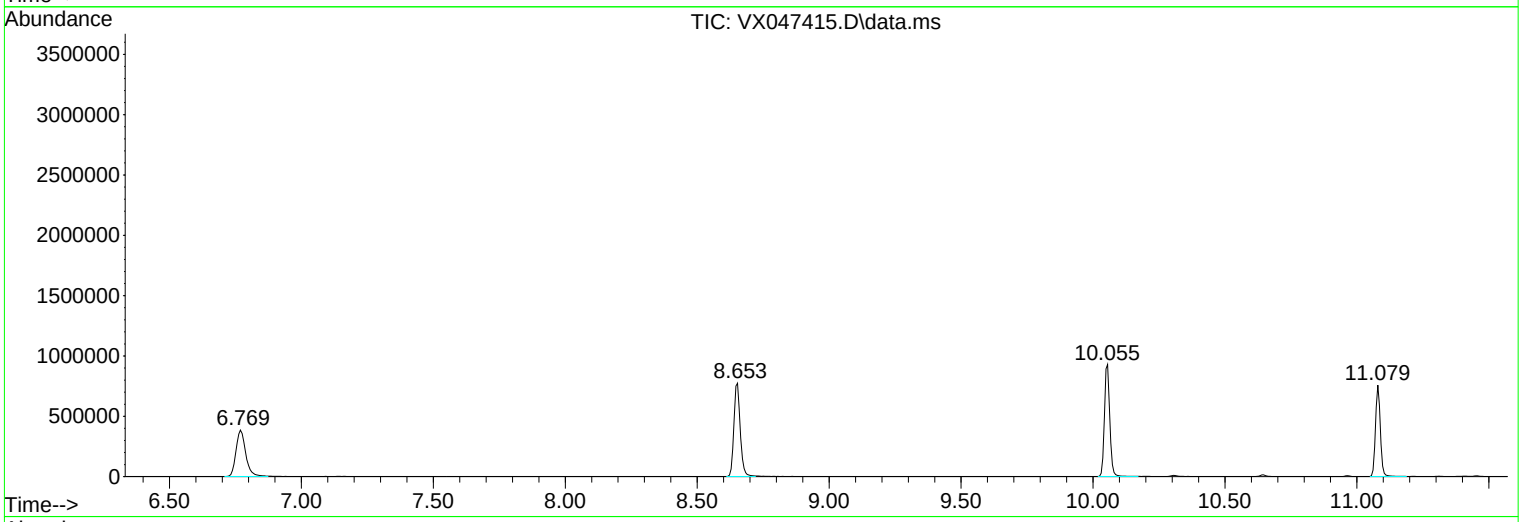
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047415.D
Acq On : 19 Aug 2025 16:14
Operator : JC/MD
Sample : Q2815-23
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

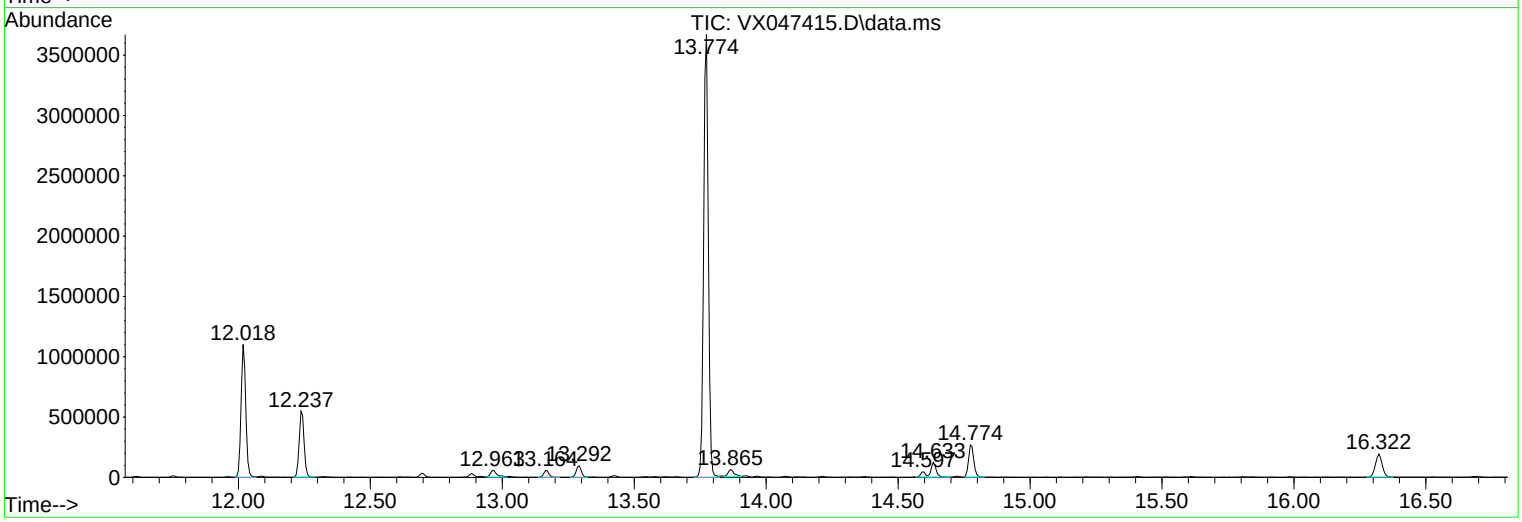
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047415.D
Acq On : 19 Aug 2025 16:14
Operator : JC/MD
Sample : Q2815-23
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

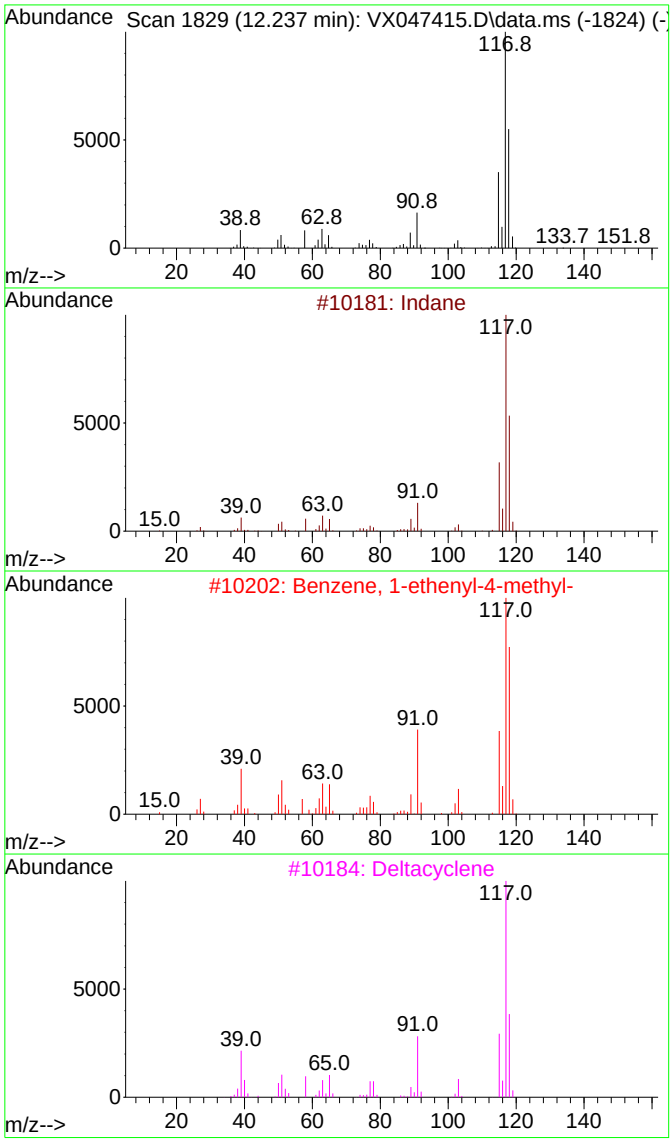
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

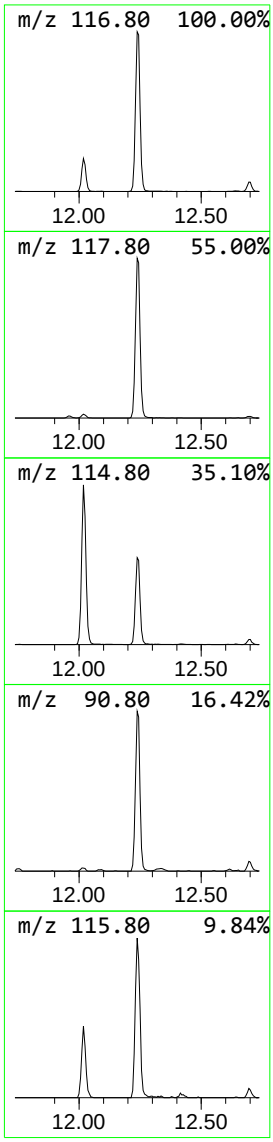
****

Peak Number 1 Indane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.238	26.11 ug/l	707336	1,4-Dichlorobenzene-d4	12.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	95
2	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	83
3	Deltacyclene	118	C9H10	007785-10-6	74
4	Benzene, 1-propenyl-	118	C9H10	000637-50-3	72
5	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047415.D
Acq On : 19 Aug 2025 16:14
Operator : JC/MD
Sample : Q2815-23
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

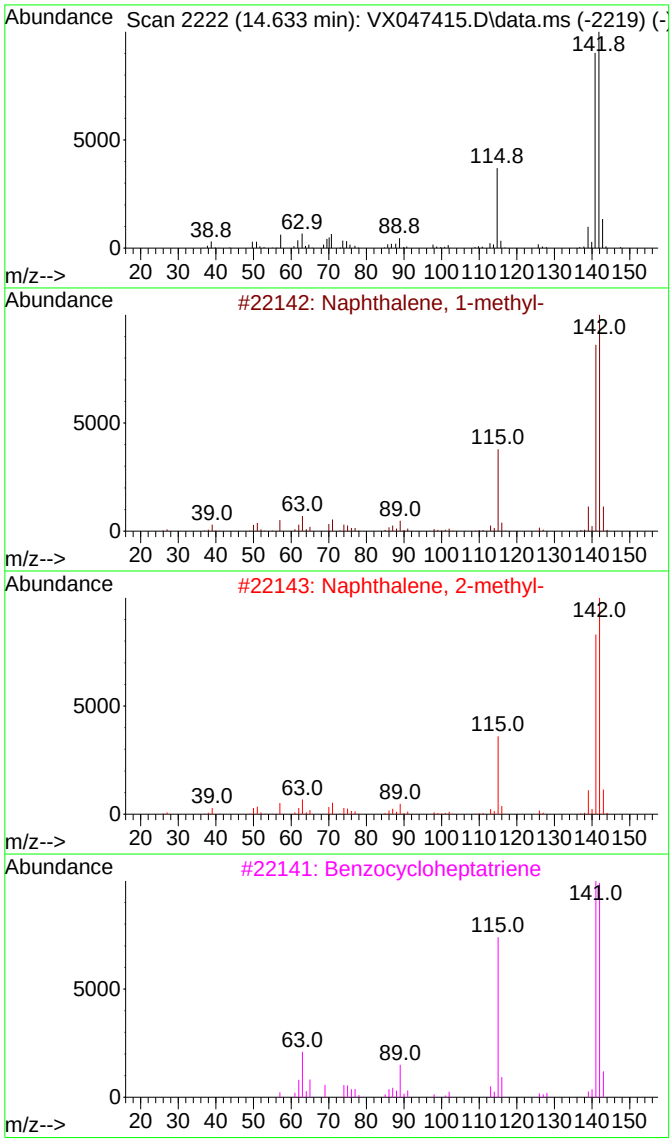
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

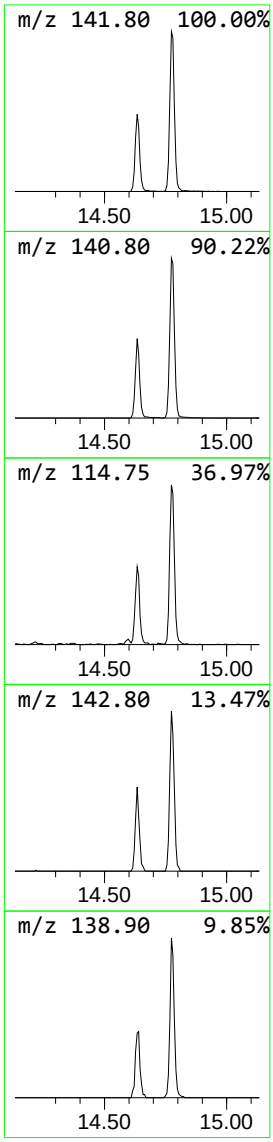
****

Peak Number 3 Naphthalene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.633	5.86 ug/l	158871	1,4-Dichlorobenzene-d4	12.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	97
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	97
3	Benzocycloheptatriene	142	C11H10	000264-09-5	91
4	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91
5	Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047415.D
Acq On : 19 Aug 2025 16:14
Operator : JC/MD
Sample : Q2815-23
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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
Indane	12.238	26.1	ug/l	707336	4	12.018	1354510	50.0
Naphthalene, 1-...	14.633	5.9	ug/l	158871	4	12.018	1354510	50.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TB	SDG No.:	Q2815
Lab Sample ID:	Q2815-24	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
VX047408.D	1	08/19/25 13:41	VX081925

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:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TB	SDG No.:	Q2815
Lab Sample ID:	Q2815-24	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
VX047408.D	1	08/19/25 13:41	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.0		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.8		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.0		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	206000	5.568				
540-36-3	1,4-Difluorobenzene	408000	6.769				
3114-55-4	Chlorobenzene-d5	405000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	204000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	TB	SDG No.:	Q2815
Lab Sample ID:	Q2815-24	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
VX047408.D	1	08/19/25 13:41	VX081925

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047408.D
Acq On : 19 Aug 2025 13:41
Operator : JC/MD
Sample : Q2815-24
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Time: Aug 20 01:26:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

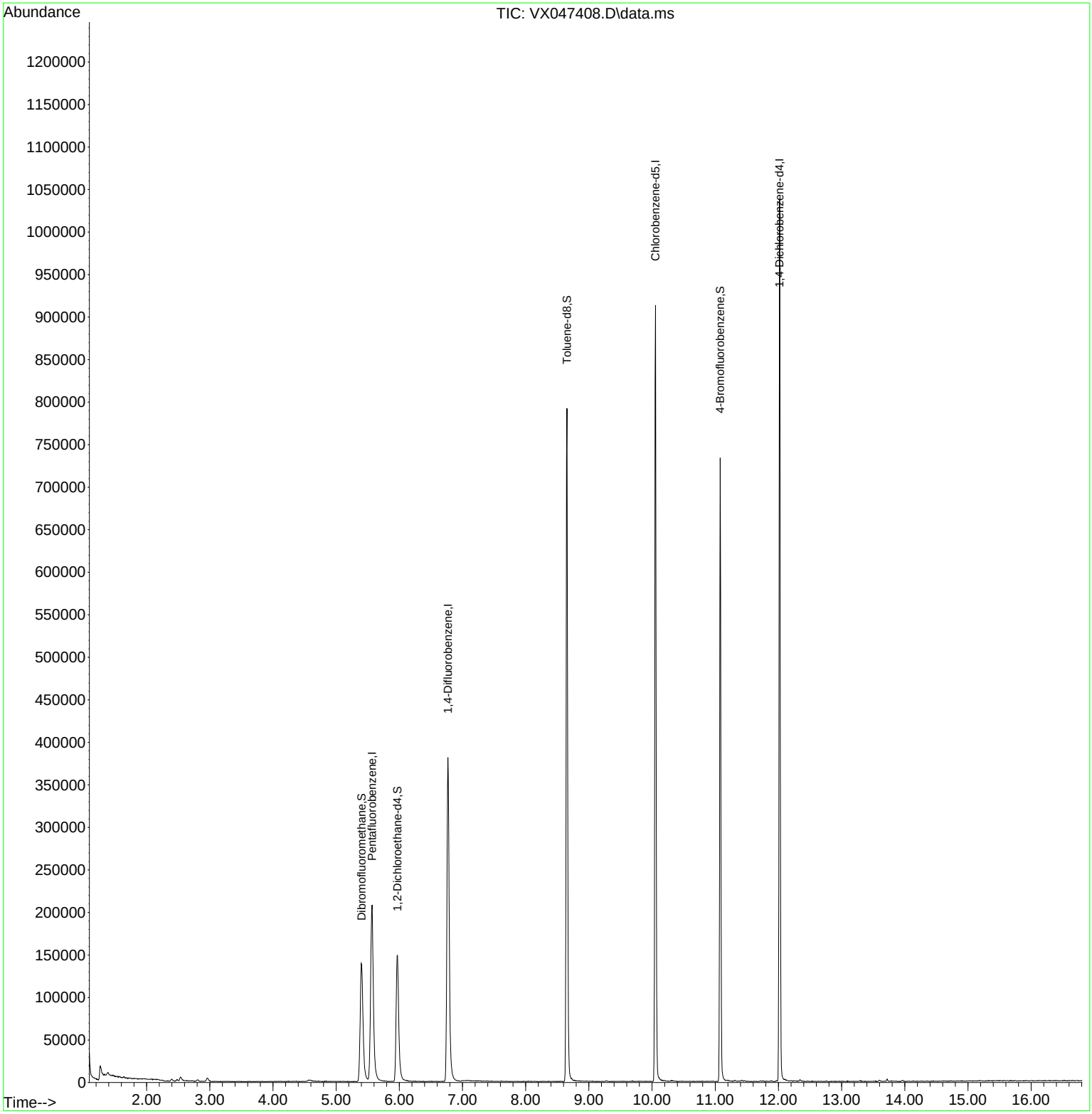
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	205616	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	407837	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	405367	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	203950	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	158172	54.965	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.940%			
35) Dibromofluoromethane	5.403	113	134553	50.834	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.660%			
50) Toluene-d8	8.653	98	470973	49.782	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.560%			
62) 4-Bromofluorobenzene	11.079	95	195434	55.979	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.960%			
Target Compounds						Qvalue

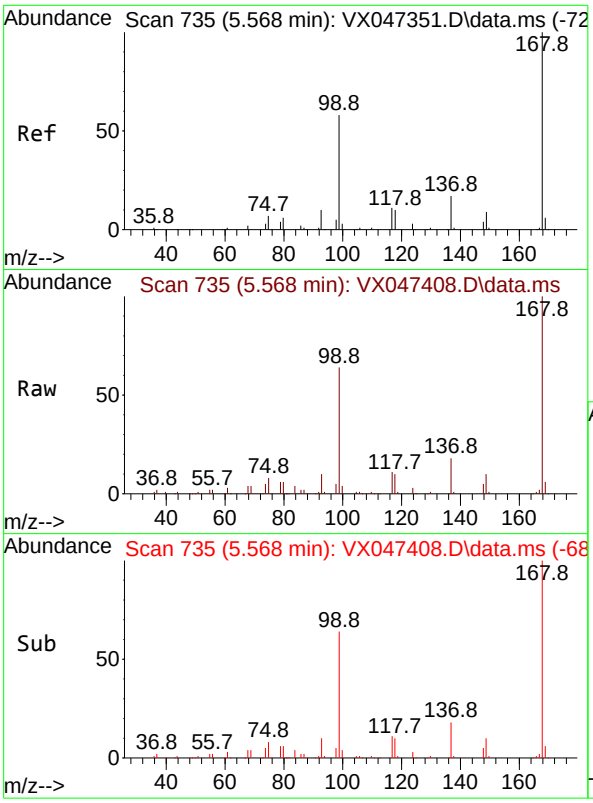
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047408.D
Acq On : 19 Aug 2025 13:41
Operator : JC/MD
Sample : Q2815-24
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Time: Aug 20 01:26:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



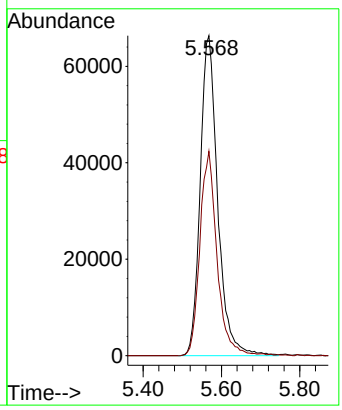


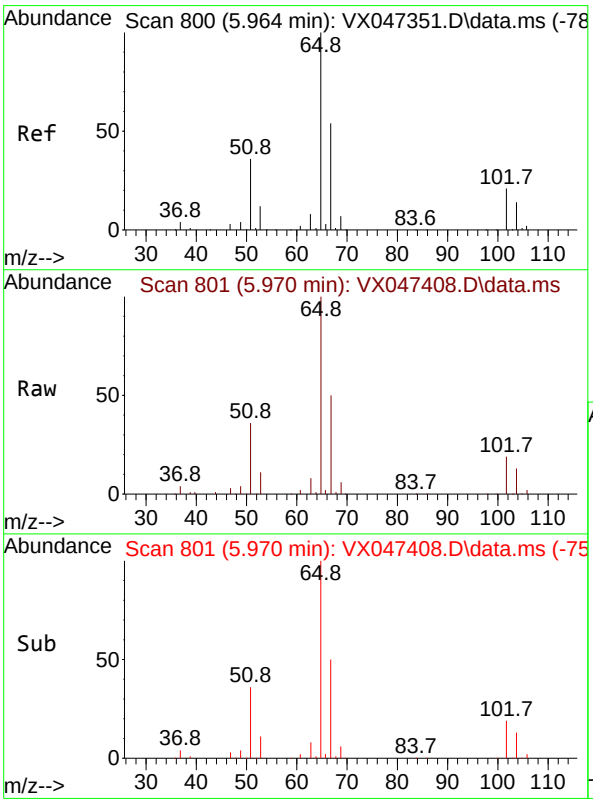
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047408.D
Acq: 19 Aug 2025 13:41

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion:168 Resp: 205616

Ion	Ratio	Lower	Upper
168	100		
99	63.9	47.9	71.9

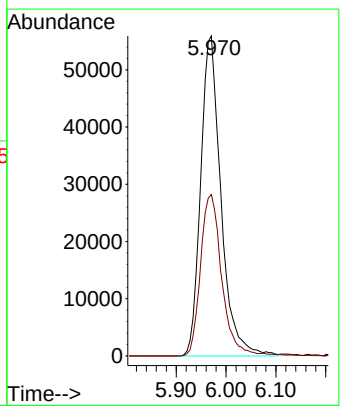


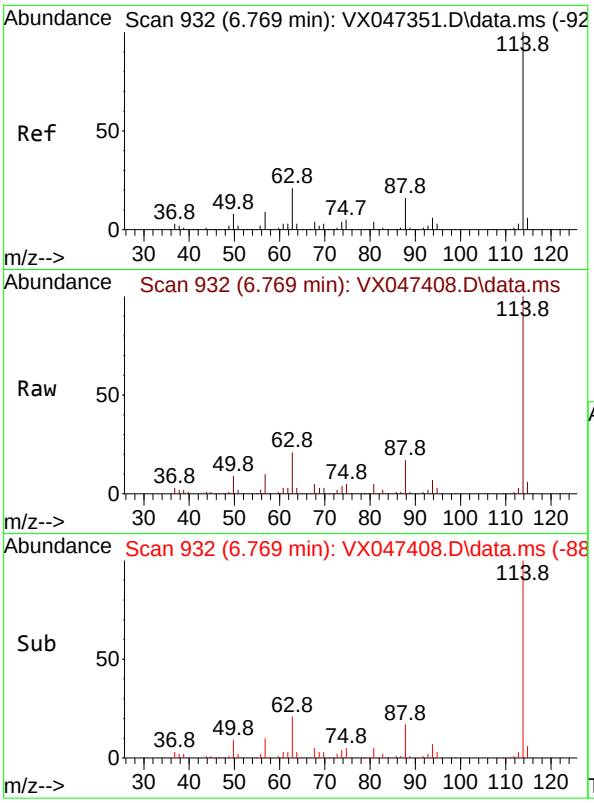


#33
1,2-Dichloroethane-d4
Concen: 54.965 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.006 min
Lab File: VX047408.D
Acq: 19 Aug 2025 13:41

Tgt Ion: 65 Resp: 158172

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	106.0



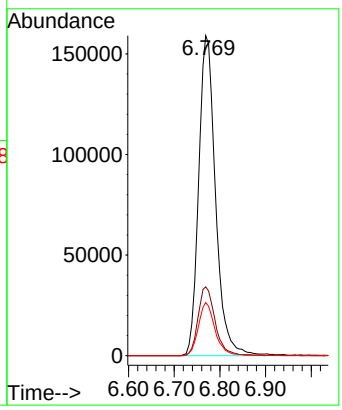


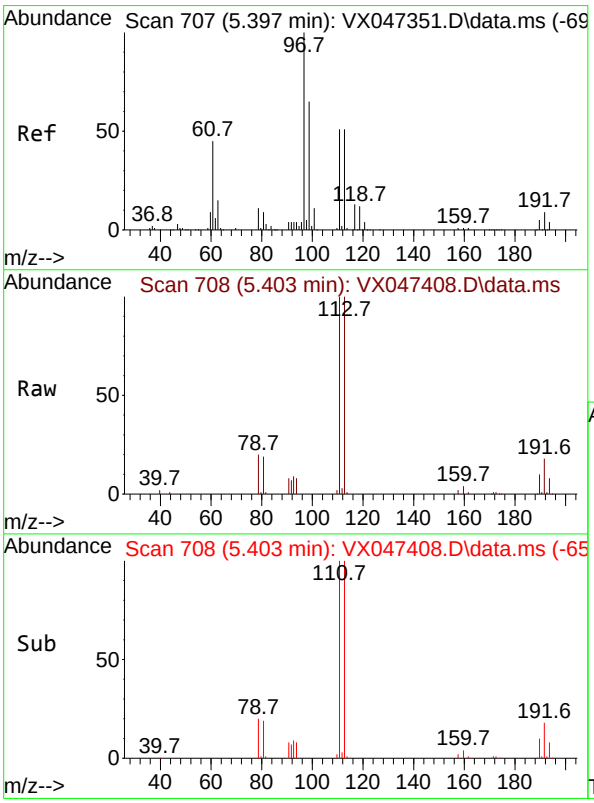
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047408.D
Acq: 19 Aug 2025 13:41

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion:114 Resp: 407837

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	42.4
88	16.6	0.0	33.0

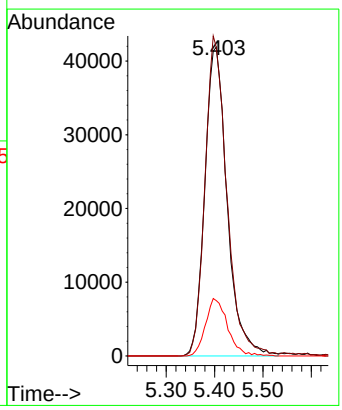


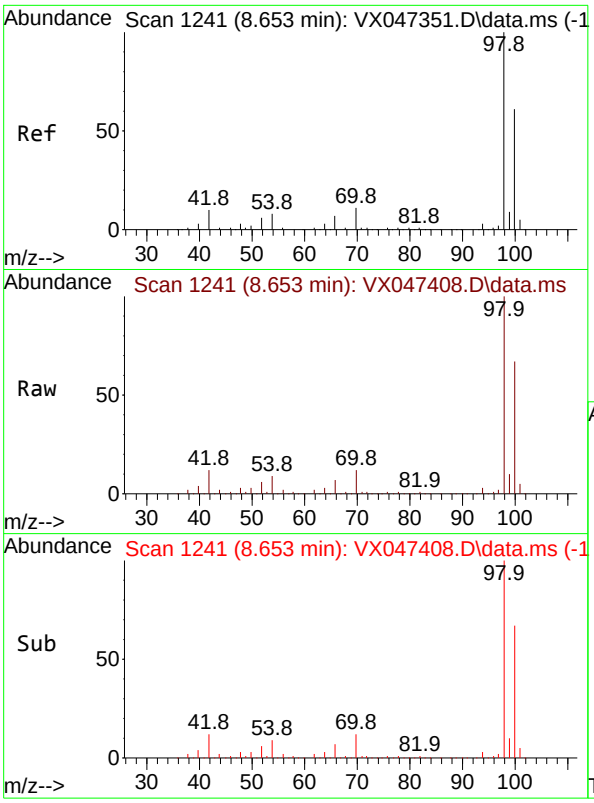


#35
Dibromofluoromethane
Concen: 50.834 ug/l
RT: 5.403 min Scan# 708
Delta R.T. 0.006 min
Lab File: VX047408.D
Acq: 19 Aug 2025 13:41

Tgt Ion:113 Resp: 134553

Ion	Ratio	Lower	Upper
113	100		
111	101.1	81.4	122.2
192	18.4	14.1	21.1



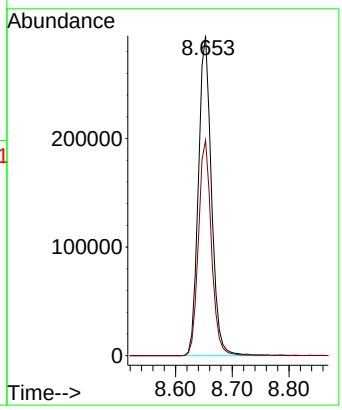


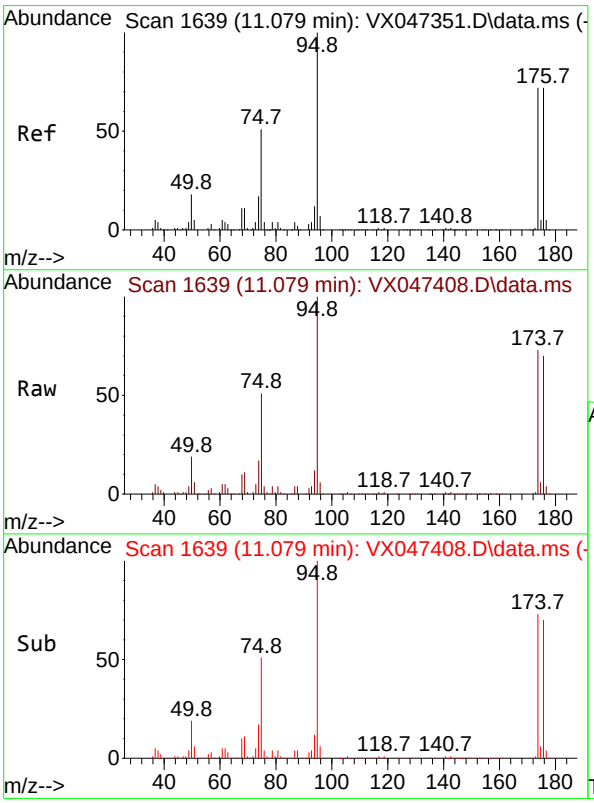
#50
Toluene-d8
Concen: 49.782 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047408.D
Acq: 19 Aug 2025 13:41

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion: 98 Resp: 470973

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.9	80.9

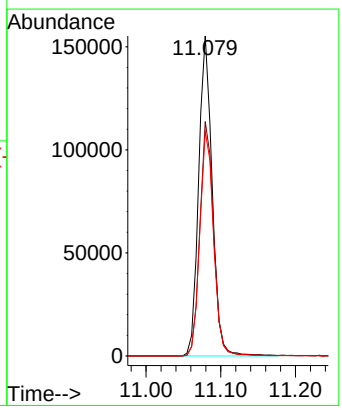


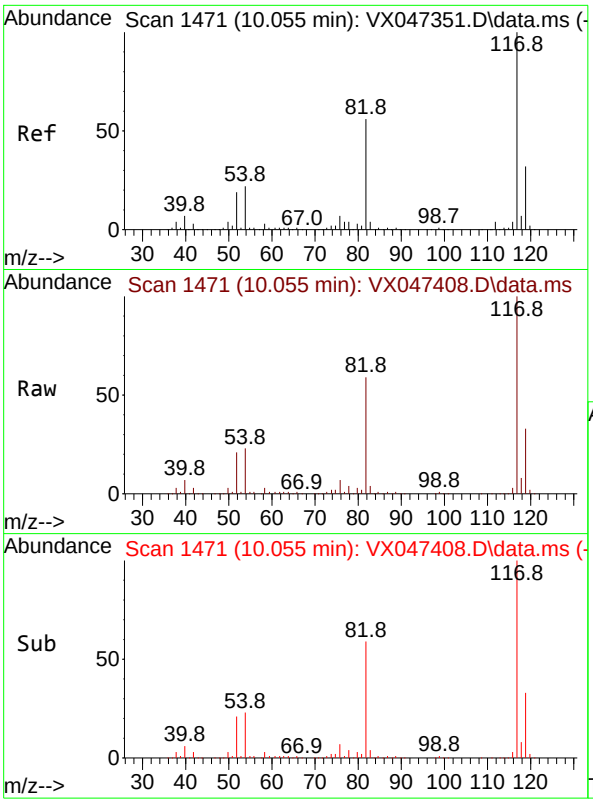


#62
4-Bromofluorobenzene
Concen: 55.979 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047408.D
Acq: 19 Aug 2025 13:41

Tgt Ion: 95 Resp: 195434

Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	148.0
176	71.5	0.0	145.4



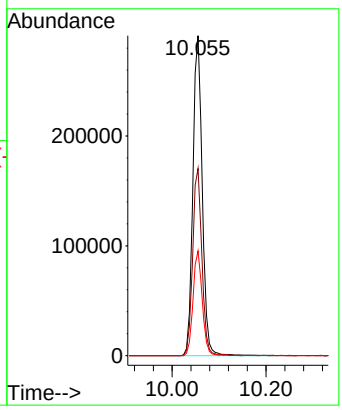


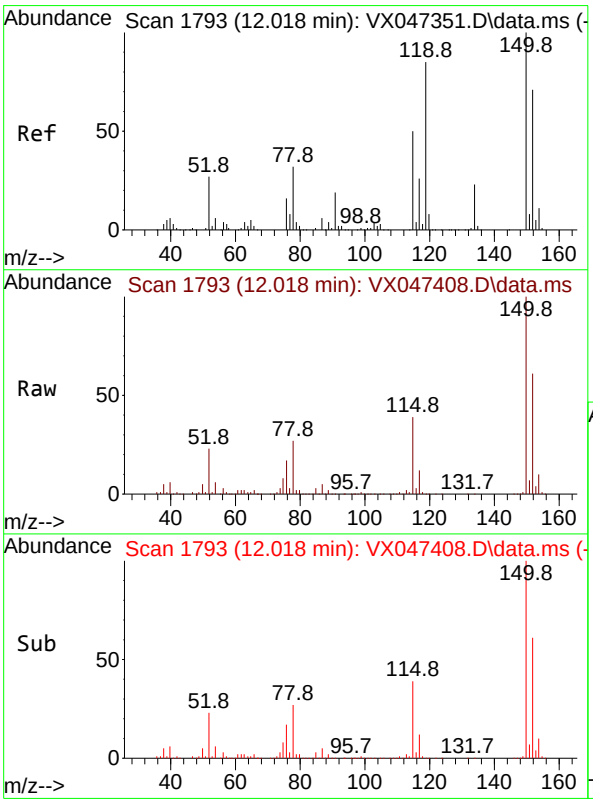
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047408.D
Acq: 19 Aug 2025 13:41

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion:117 Resp: 405367

Ion	Ratio	Lower	Upper
117	100		
82	58.5	45.0	67.4
119	32.7	25.8	38.8

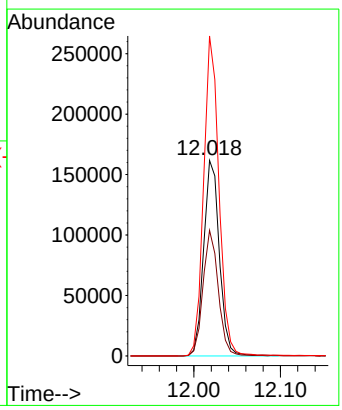




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047408.D
Acq: 19 Aug 2025 13:41

Tgt Ion:152 Resp: 203950

Ion	Ratio	Lower	Upper
152	100		
115	62.4	44.6	133.8
150	159.7	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047408.D
Acq On : 19 Aug 2025 13:41
Operator : JC/MD
Sample : Q2815-24
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047408.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	24	29	35	rBV	16699	38770	3.03%	0.533%
2	5.397	695	707	724	rBV2	138804	441166	34.42%	6.063%
3	5.568	724	735	765	rVB	207192	639007	49.86%	8.782%
4	5.970	791	801	817	rBV	148455	432033	33.71%	5.938%
5	6.769	923	932	956	rBV	380929	971632	75.82%	13.354%
6	8.653	1234	1241	1258	rBV	791165	1272656	99.30%	17.491%
7	10.055	1465	1471	1487	rBV	912460	1267625	98.91%	17.421%
8	11.079	1634	1639	1651	rBV	733017	931766	72.71%	12.806%
9	12.018	1788	1793	1809	rBV	1037405	1281563	100.00%	17.613%

Sum of corrected areas: 7276218

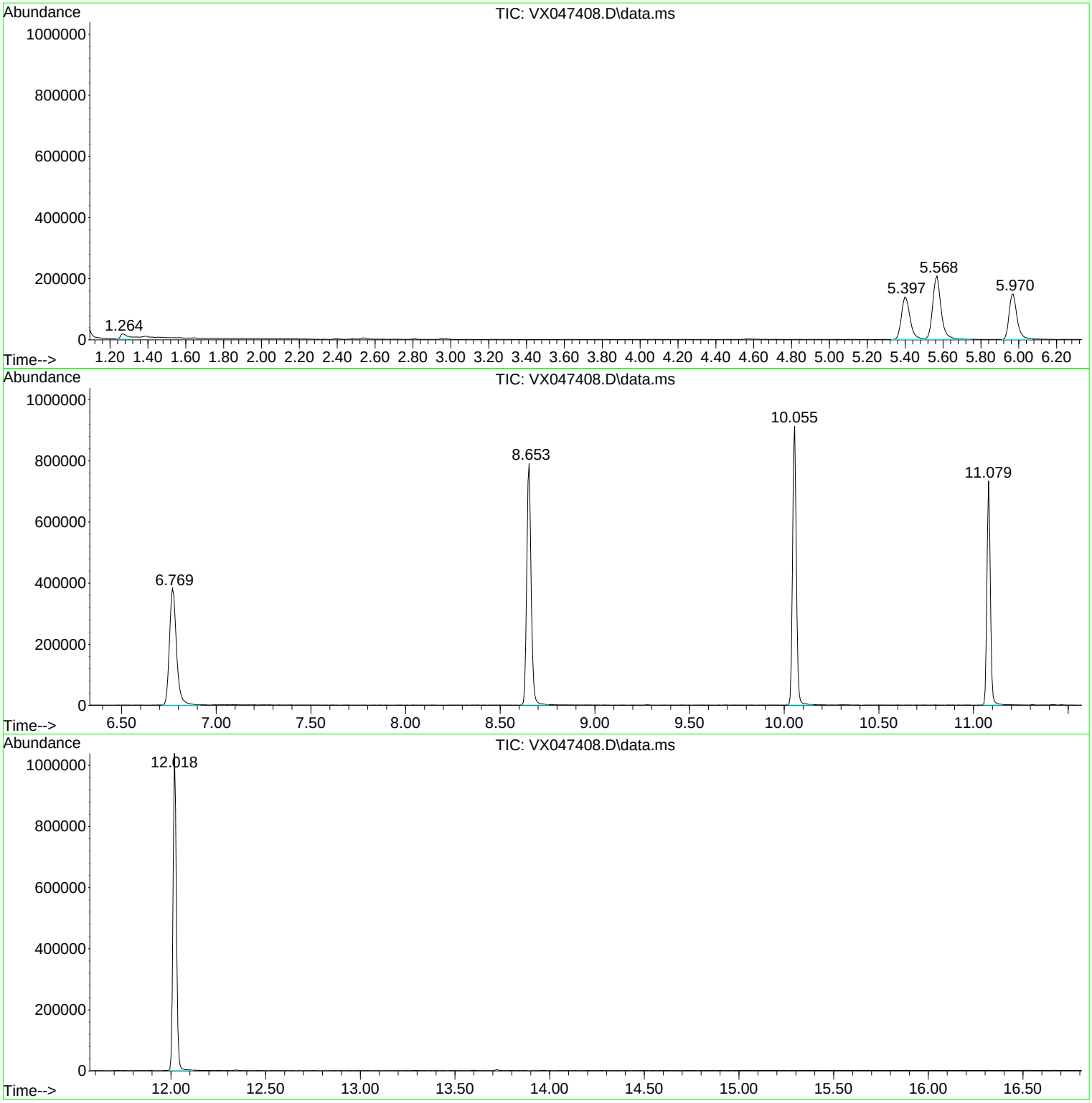
Sample Results: **VX047408.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047408.D
Acq On : 19 Aug 2025 13:41
Operator : JC/MD
Sample : Q2815-24
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047408.D
Acq On : 19 Aug 2025 13:41
Operator : JC/MD
Sample : Q2815-24
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081925\
Data File : VX047408.D
Acq On : 19 Aug 2025 13:41
Operator : JC/MD
Sample : Q2815-24
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	FB	SDG No.:	Q2815
Lab Sample ID:	Q2815-26	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
VX047434.D	1	08/20/25 12:11	VX082025

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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	FB	SDG No.:	Q2815
Lab Sample ID:	Q2815-26	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
VX047434.D	1	08/20/25 12:11	VX082025

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	56.0		81 - 118		112%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	51.0		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.4		85 - 114		113%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	318000	5.568				
540-36-3	1,4-Difluorobenzene	633000	6.769				
3114-55-4	Chlorobenzene-d5	620000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	314000	12.018				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	FB	SDG No.:	Q2815
Lab Sample ID:	Q2815-26	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
VX047434.D	1	08/20/25 12:11	VX082025

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\VX082025\
Data File : VX047434.D
Acq On : 20 Aug 2025 12:11
Operator : JC/MD
Sample : Q2815-26
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB

Quant Time: Aug 21 01:29:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

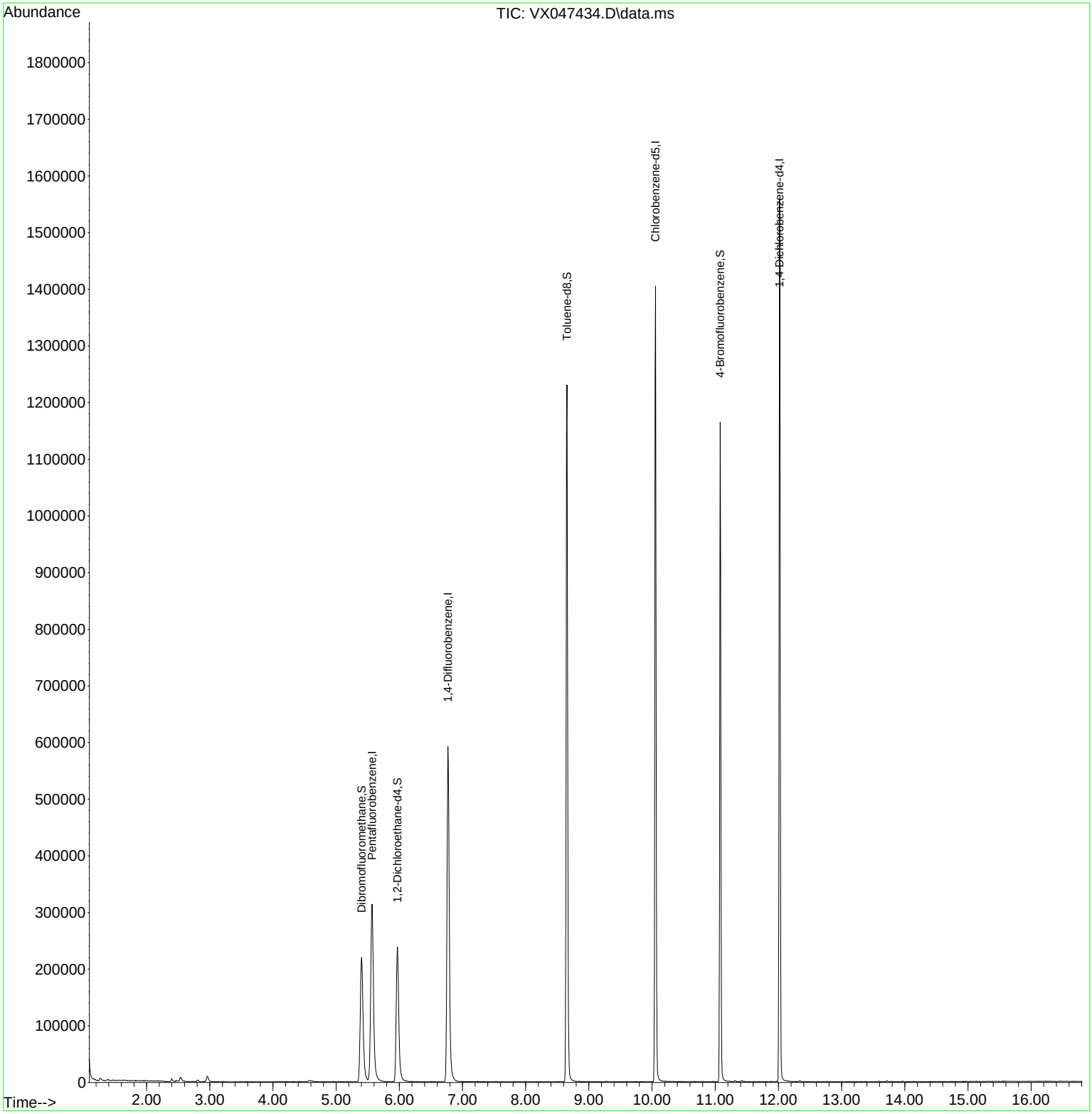
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	317644	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	633243	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	619750	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	313519	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	249104	56.035	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 112.060%			
35) Dibromofluoromethane	5.403	113	208667	50.773	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.540%			
50) Toluene-d8	8.653	98	748732	50.970	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.940%			
62) 4-Bromofluorobenzene	11.079	95	305594	56.375	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 112.760%			
Target Compounds						Qvalue

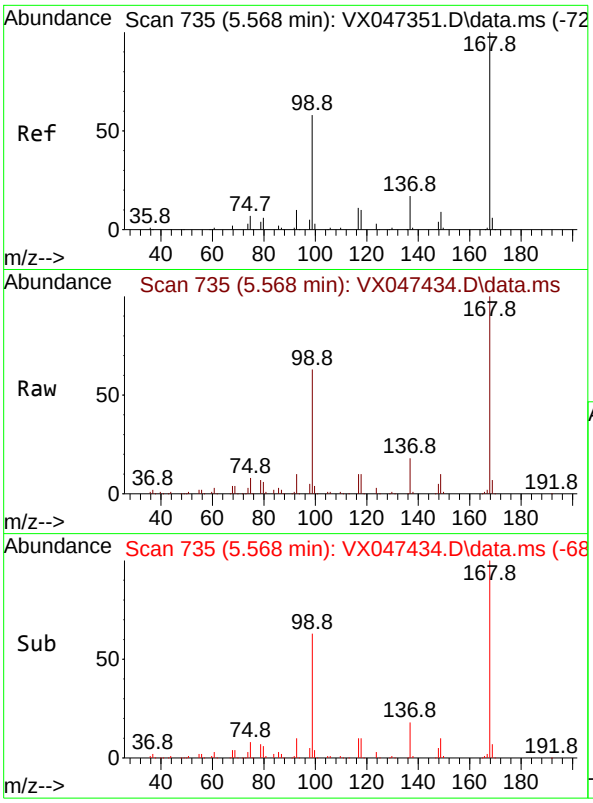
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047434.D
Acq On : 20 Aug 2025 12:11
Operator : JC/MD
Sample : Q2815-26
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB

Quant Time: Aug 21 01:29:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



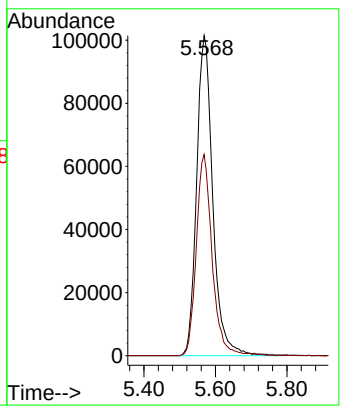


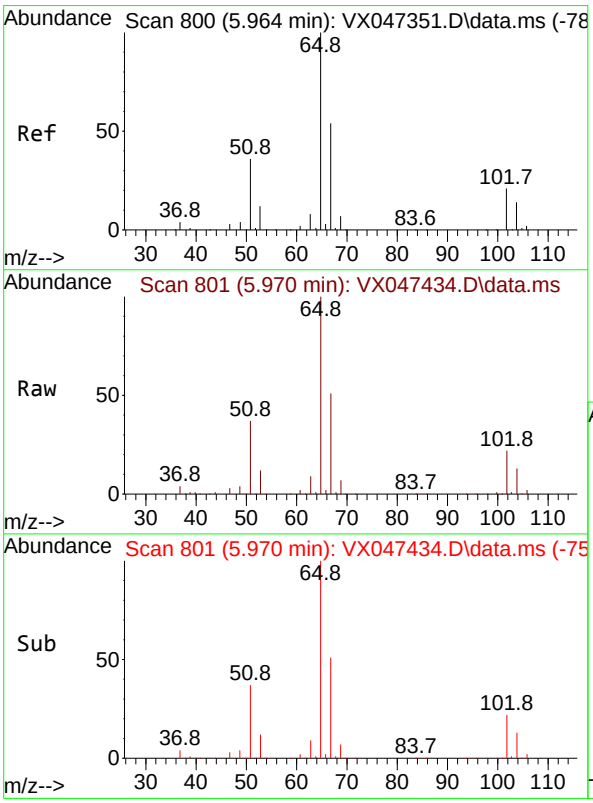
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047434.D
Acq: 20 Aug 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
FB

Tgt Ion:168 Resp: 317644

Ion	Ratio	Lower	Upper
168	100		
99	62.8	47.9	71.9

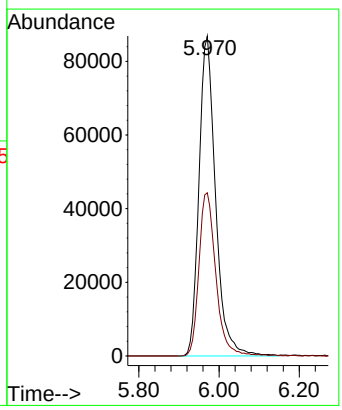


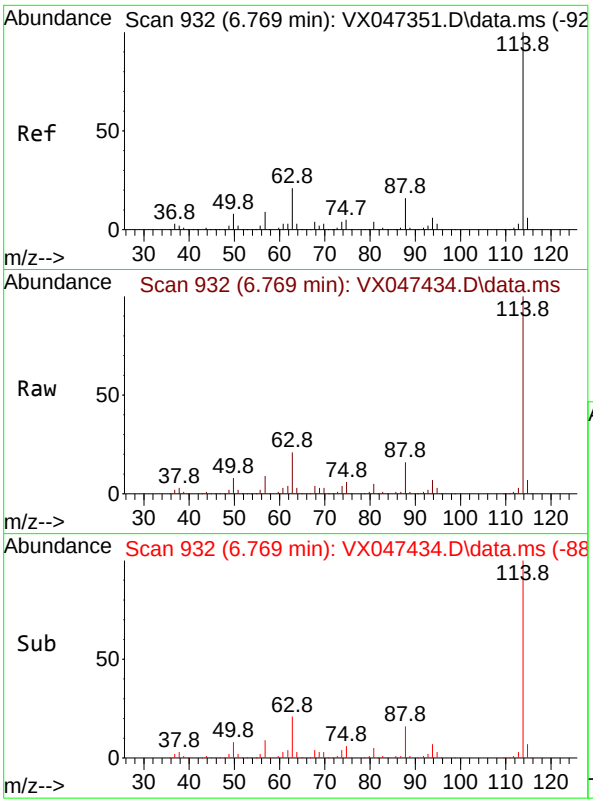


#33
1,2-Dichloroethane-d4
Concen: 56.035 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.006 min
Lab File: VX047434.D
Acq: 20 Aug 2025 12:11

Tgt Ion: 65 Resp: 249104

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	106.0



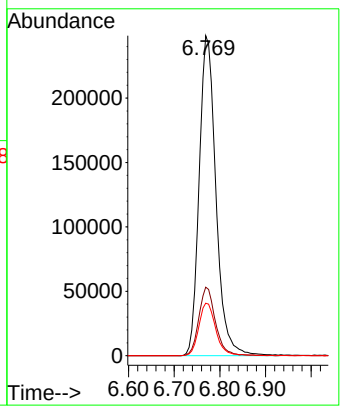


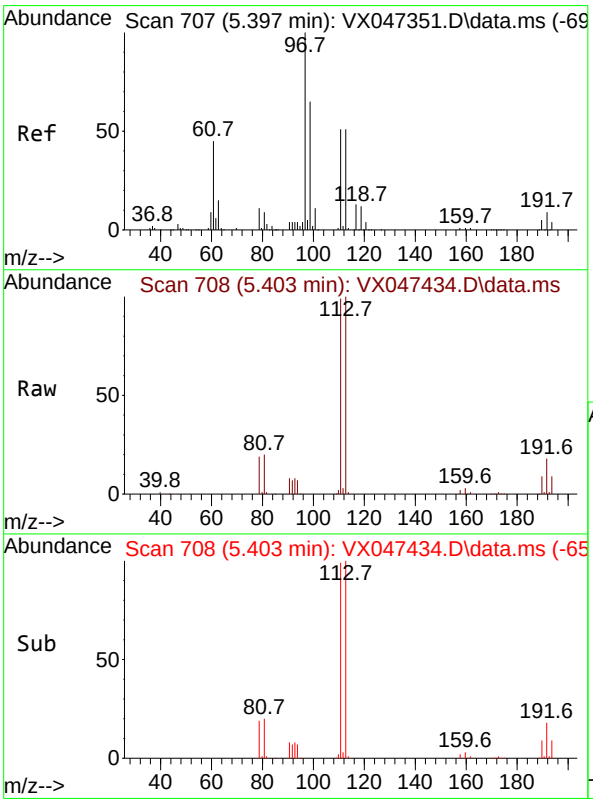
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047434.D
Acq: 20 Aug 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
FB

Tgt Ion:114 Resp: 633243

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	42.4
88	16.4	0.0	33.0

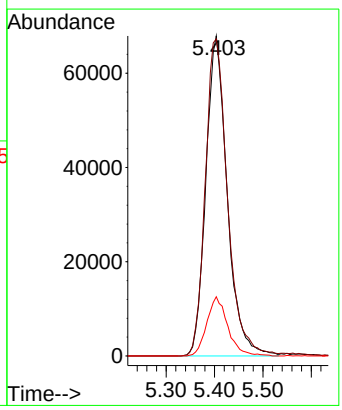


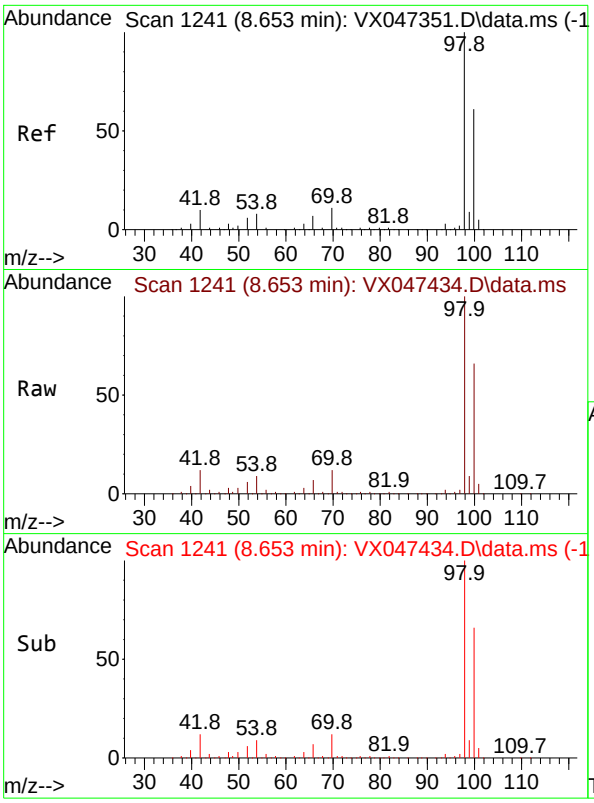


#35
Dibromofluoromethane
Concen: 50.773 ug/l
RT: 5.403 min Scan# 708
Delta R.T. 0.006 min
Lab File: VX047434.D
Acq: 20 Aug 2025 12:11

Tgt Ion:113 Resp: 208667

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.4	122.2
192	18.2	14.1	21.1



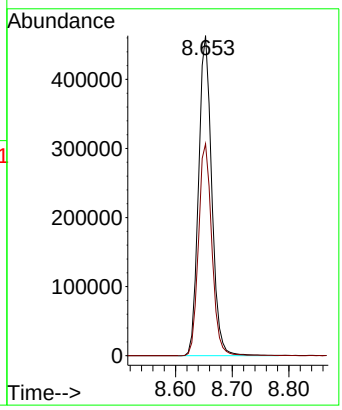


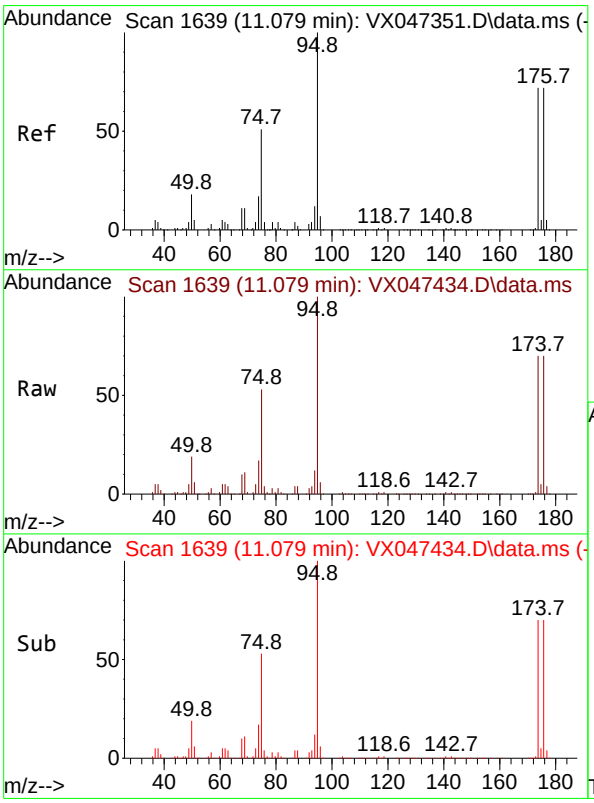
#50
Toluene-d8
Concen: 50.970 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047434.D
Acq: 20 Aug 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
FB

Tgt Ion: 98 Resp: 748732

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.9	80.9

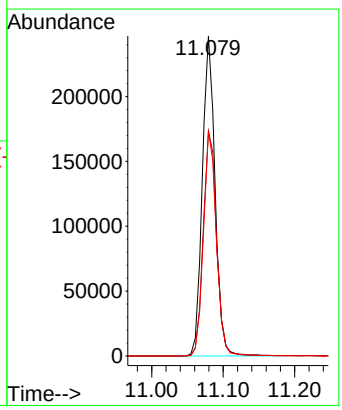


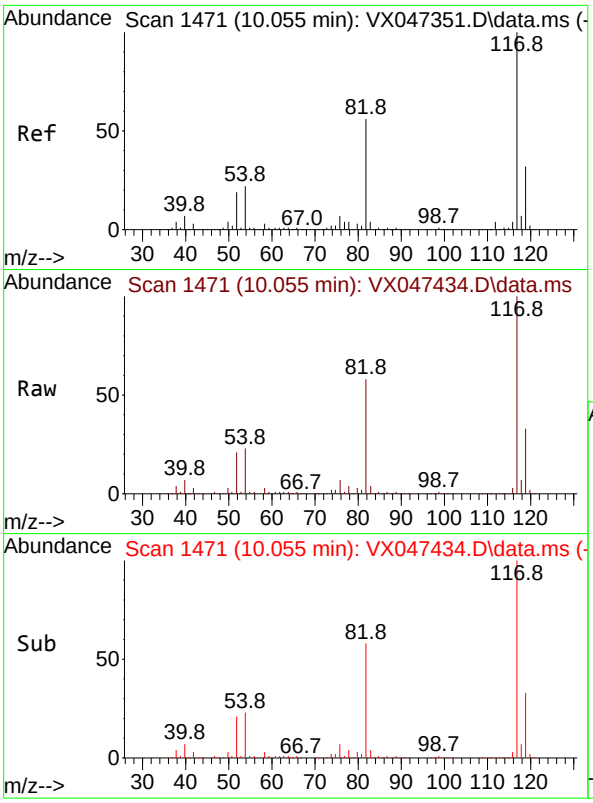


#62
4-Bromofluorobenzene
Concen: 56.375 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047434.D
Acq: 20 Aug 2025 12:11

Tgt Ion: 95 Resp: 305594

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	148.0
176	71.1	0.0	145.4



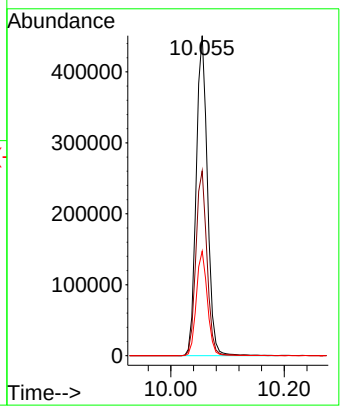


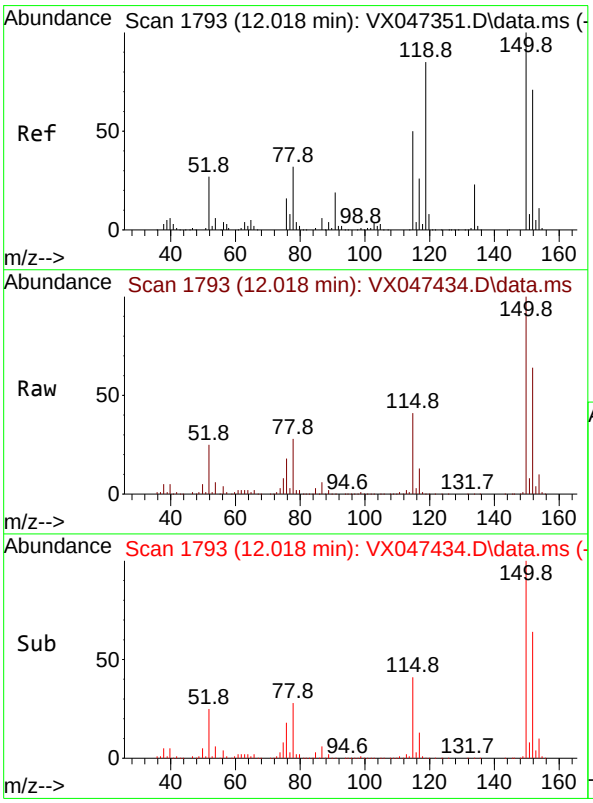
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047434.D
Acq: 20 Aug 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
FB

Tgt Ion:117 Resp: 619750

Ion	Ratio	Lower	Upper
117	100		
82	57.8	45.0	67.4
119	32.6	25.8	38.8

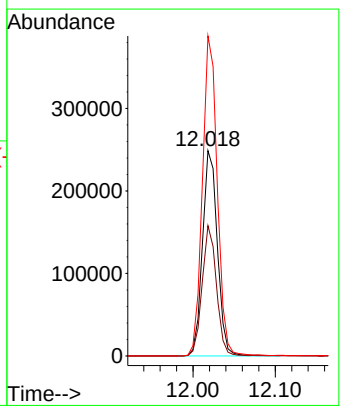




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047434.D
Acq: 20 Aug 2025 12:11

Tgt Ion:152 Resp: 313519

Ion	Ratio	Lower	Upper
152	100		
115	61.1	44.6	133.8
150	155.2	0.0	349.8



Sample Results: **VX047434.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047434.D
Acq On : 20 Aug 2025 12:11
Operator : JC/MD
Sample : Q2815-26
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047434.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.959	299	307	317	rBV3	10184	25942	1.29%	0.232%
2	5.403	695	708	724	rBV4	220078	691936	34.35%	6.181%
3	5.568	724	735	758	rVB	312368	966224	47.96%	8.631%
4	5.970	789	801	824	rBV	238411	683001	33.90%	6.101%
5	6.769	922	932	954	rBV	591913	1499552	74.43%	13.396%
6	8.653	1234	1241	1258	rBV	1229708	2014621	100.00%	17.997%
7	10.055	1465	1471	1486	rBV	1404419	1934898	96.04%	17.285%
8	11.079	1634	1639	1657	rBV	1163910	1448805	71.91%	12.942%
9	12.018	1788	1793	1806	rBV	1558042	1929235	95.76%	17.234%

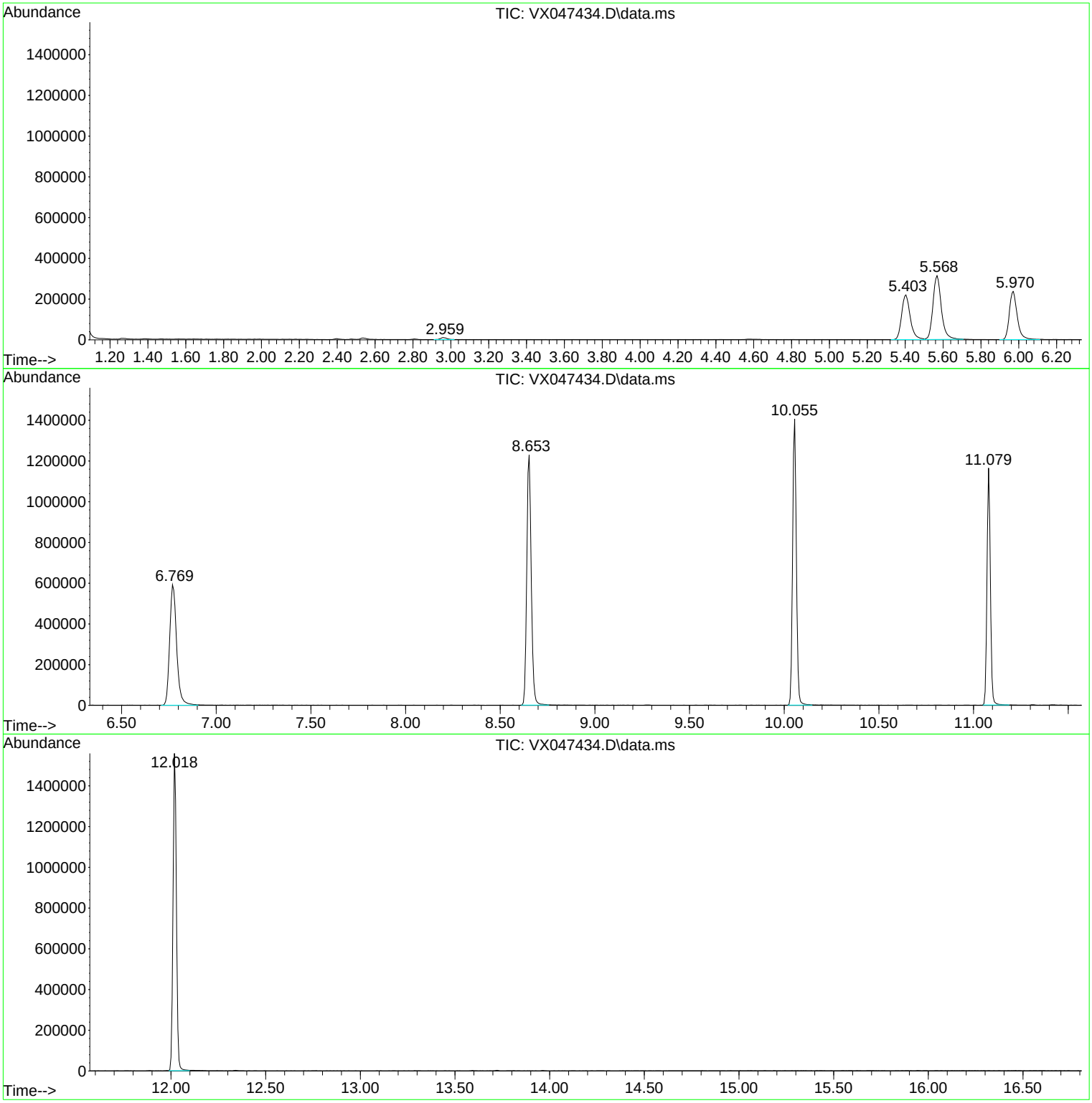
Sum of corrected areas: 11194214

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047434.D
Acq On : 20 Aug 2025 12:11
Operator : JC/MD
Sample : Q2815-26
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047434.D
Acq On : 20 Aug 2025 12:11
Operator : JC/MD
Sample : Q2815-26
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX082025\
Data File : VX047434.D
Acq On : 20 Aug 2025 12:11
Operator : JC/MD
Sample : Q2815-26
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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

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: FIRS02

Lab Code: ACE SDG No.: Q2815

Instrument ID: MSVOA_X Calibration Date(s): 07/21/2025 07/21/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:47 11:32

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

LAB FILE ID: RRF001 = VX047055.D RRF005 = VX047056.D RRF020 = VX047057.D
RRF050 = VX047058.D RRF100 = VX047059.D RRF150 = VX047060.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.516	0.640	0.610	0.768	0.721	0.729	0.664	14.1
Chloromethane	0.582	0.668	0.626	0.699	0.667	0.701	0.657	7
Vinyl Chloride	0.578	0.739	0.700	0.780	0.716	0.723	0.706	9.7
Bromomethane		0.408	0.400	0.448	0.353	0.309	0.384	14
Chloroethane	0.547	0.482	0.436	0.470	0.423	0.424	0.464	10.3
Trichlorofluoromethane	0.853	1.123	1.058	1.158	1.054	1.071	1.053	10.1
1,1,2-Trichlorotrifluoroethane	0.558	0.671	0.646	0.675	0.627	0.631	0.634	6.7
1,1-Dichloroethene	0.553	0.659	0.635	0.674	0.624	0.625	0.628	6.7
Acetone	0.268	0.267	0.246	0.252	0.232	0.231	0.250	6.5
Carbon Disulfide	1.633	1.926	1.823	1.936	1.783	1.805	1.818	6.1
Methyl tert-butyl Ether	1.640	2.011	1.960	2.055	1.891	1.916	1.912	7.6
Methyl Acetate	0.657	0.686	0.636	0.688	0.651	0.662	0.663	3.1
Methylene Chloride	0.635	0.751	0.708	0.722	0.653	0.651	0.686	6.8
trans-1,2-Dichloroethene	0.531	0.701	0.667	0.695	0.632	0.632	0.643	9.7
1,1-Dichloroethane	1.044	1.327	1.245	1.300	1.177	1.193	1.214	8.4
Cyclohexane		1.221	1.187	1.215	1.099	1.101	1.164	5.2
2-Butanone	0.317	0.376	0.371	0.391	0.363	0.362	0.363	6.8
Carbon Tetrachloride	0.526	0.612	0.566	0.595	0.531	0.540	0.562	6.4
cis-1,2-Dichloroethene	0.670	0.832	0.777	0.807	0.739	0.744	0.761	7.6
Bromochloromethane	0.457	0.608	0.568	0.609	0.559	0.550	0.559	9.9
Chloroform	1.180	1.357	1.252	1.289	1.175	1.164	1.236	6.2
1,1,1-Trichloroethane	0.961	1.156	1.101	1.127	1.041	1.057	1.074	6.5
Methylcyclohexane	0.583	0.693	0.674	0.699	0.640	0.653	0.657	6.5
Benzene	1.327	1.656	1.573	1.650	1.451	1.480	1.523	8.4
1,2-Dichloroethane	0.468	0.587	0.558	0.576	0.512	0.517	0.536	8.5
Trichloroethene	0.350	0.427	0.392	0.420	0.371	0.383	0.391	7.5
1,2-Dichloropropane	0.334	0.419	0.393	0.408	0.363	0.371	0.381	8.2
Bromodichloromethane	0.494	0.626	0.579	0.617	0.543	0.557	0.569	8.7
4-Methyl-2-Pentanone	0.371	0.477	0.470	0.497	0.440	0.440	0.449	9.8
Toluene	0.762	1.047	0.987	1.017	0.896	0.910	0.936	11.1

* 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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2815

Instrument ID: MSVOA_X Calibration Date(s): 07/21/2025 07/21/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:47 11:32

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

LAB FILE ID: RRF001 = VX047055.D RRF005 = VX047056.D RRF020 = VX047057.D
RRF050 = VX047058.D RRF100 = VX047059.D RRF150 = VX047060.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.429	0.549	0.546	0.592	0.548	0.562	0.538	10.4
cis-1,3-Dichloropropene	0.442	0.611	0.618	0.653	0.593	0.614	0.588	12.6
1,1,2-Trichloroethane	0.300	0.391	0.373	0.376	0.332	0.335	0.351	9.9
2-Hexanone	0.192	0.312	0.324	0.343	0.305	0.304	0.297	17.9
Dibromochloromethane	0.343	0.449	0.428	0.444	0.398	0.409	0.412	9.4
1,2-Dibromoethane	0.334	0.398	0.377	0.395	0.349	0.351	0.367	7.3
Tetrachloroethene	0.322	0.403	0.381	0.376	0.337	0.344	0.360	8.6
Chlorobenzene	1.029	1.295	1.225	1.231	1.114	1.135	1.171	8.2
Ethyl Benzene	1.814	2.189	2.119	2.204	1.975	1.987	2.048	7.4
m/p-Xylenes	0.693	0.827	0.795	0.818	0.734	0.732	0.766	7.1
o-Xylene	0.586	0.820	0.769	0.785	0.704	0.711	0.729	11.4
Styrene	1.024	1.356	1.332	1.361	1.209	1.219	1.250	10.4
Bromoform	0.257	0.323	0.302	0.325	0.292	0.299	0.300	8.2
Isopropylbenzene	3.180	4.148	4.146	4.309	3.907	3.979	3.945	10.2
1,1,2,2-Tetrachloroethane	0.979	1.203	1.182	1.210	1.085	1.103	1.127	7.9
1,3-Dichlorobenzene	1.562	1.968	1.869	1.908	1.704	1.776	1.798	8.3
1,4-Dichlorobenzene	1.659	1.982	1.903	1.893	1.723	1.767	1.821	6.8
1,2-Dichlorobenzene	1.533	1.873	1.764	1.824	1.625	1.691	1.718	7.4
1,2-Dibromo-3-Chloropropane	0.140	0.223	0.223	0.239	0.231	0.242	0.216	17.6
1,2,4-Trichlorobenzene	0.919	1.189	1.159	1.224	1.144	1.176	1.135	9.6
1,2,3-Trichlorobenzene	0.925	1.120	1.117	1.172	1.102	1.126	1.094	7.9
1,2-Dichloroethane-d4		0.768	0.511	0.575	0.611	0.649	0.623	15.4
Dibromofluoromethane		0.355	0.262	0.296	0.302	0.328	0.309	11.3
Toluene-d8		1.293	0.821	0.924	0.946	1.014	1.000	17.8
4-Bromofluorobenzene		0.514	0.369	0.409	0.417	0.445	0.431	12.5

* 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 : 82X072125W.M
Title : SW846 8260
Last Update : Tue Jul 22 03:59:51 2025
Response Via : Initial Calibration

Calibration Files
1 =VX047055.D 5 =VX047056.D 20 =VX047057.D 50 =VX047058.D 100 =VX047059.D 150 =VX047060.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.516	0.640	0.610	0.768	0.721	0.729	0.664	14.06
3)	P	Chloromethane	0.582	0.668	0.626	0.699	0.667	0.701	0.657	7.01
4)	C	Vinyl Chloride	0.578	0.739	0.700	0.780	0.716	0.723	0.706	9.67#
5)	T	Bromomethane		0.408	0.400	0.448	0.353	0.309	0.384	13.95
6)	T	Chloroethane	0.547	0.482	0.436	0.470	0.423	0.424	0.464	10.27
7)	T	Trichlorofluor...	0.853	1.123	1.058	1.158	1.054	1.071	1.053	10.08
8)	T	Diethyl Ether	0.329	0.395	0.376	0.390	0.367	0.370	0.371	6.26
9)	T	1,1,2-Trichlor...	0.558	0.671	0.646	0.675	0.627	0.631	0.634	6.70
10)	T	Methyl Iodide		0.476	0.552	0.727	0.718	0.760	0.647	19.34
11)	T	Tert butyl alc...		0.109	0.075	0.073	0.071	0.071	0.080	20.51
12)	CM	1,1-Dichloroet...	0.553	0.659	0.635	0.674	0.624	0.625	0.628	6.66#
13)	T	Acrolein		0.135	0.130	0.139	0.133	0.134	0.134	2.33
14)	T	Allyl chloride	0.941	1.191	1.162	1.239	1.139	1.143	1.136	9.00
15)	T	Acrylonitrile	0.208	0.321	0.317	0.329	0.305	0.302	0.297	15.15
16)	T	Acetone	0.268	0.267	0.246	0.252	0.232	0.231	0.250	6.53
17)	T	Carbon Disulfide	1.633	1.926	1.823	1.936	1.783	1.805	1.818	6.09
18)	T	Methyl Acetate	0.657	0.686	0.636	0.688	0.651	0.662	0.663	3.05
19)	T	Methyl tert-bu...	1.640	2.011	1.960	2.055	1.891	1.916	1.912	7.64
20)	T	Methylene Chlo...	0.635	0.751	0.708	0.722	0.653	0.651	0.686	6.83
21)	T	trans-1,2-Dich...	0.531	0.701	0.667	0.695	0.632	0.632	0.643	9.69
22)	T	Diisopropyl ether	1.808	2.393	2.289	2.362	2.126	2.124	2.184	9.93
23)	T	Vinyl Acetate	1.333	1.804	1.858	1.940	1.792	1.782	1.752	12.18
24)	P	1,1-Dichloroet...	1.044	1.327	1.245	1.300	1.177	1.193	1.214	8.40
25)	T	2-Butanone	0.317	0.376	0.371	0.391	0.363	0.362	0.363	6.85
26)	T	2,2-Dichloropr...	0.874	1.011	0.928	0.979	0.912	0.937	0.940	5.20
27)	T	cis-1,2-Dichlo...	0.670	0.832	0.777	0.807	0.739	0.744	0.761	7.56
28)	T	Bromochloromet...	0.457	0.608	0.568	0.609	0.559	0.550	0.559	9.95
29)	T	Tetrahydrofuran	0.182	0.250	0.244	0.256	0.238	0.236	0.234	11.35
30)	C	Chloroform	1.180	1.357	1.252	1.289	1.175	1.164	1.236	6.22#
31)	T	Cyclohexane		1.221	1.187	1.215	1.099	1.101	1.164	5.19
32)	T	1,1,1-Trichlor...	0.961	1.156	1.101	1.127	1.041	1.057	1.074	6.49
33)	S	1,2-Dichloroet...		0.768	0.511	0.575	0.611	0.649	0.623	15.42
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.355	0.262	0.296	0.302	0.328	0.309	11.30
36)	T	1,1-Dichloropr...	0.576	0.527	0.528	0.547	0.484	0.495	0.526	6.34
37)	T	Ethyl Acetate	0.496	0.537	0.438	0.511	0.462	0.466	0.485	7.48
38)	T	Carbon Tetrach...	0.526	0.612	0.566	0.595	0.531	0.540	0.562	6.35
39)	T	Methylcyclohexane	0.583	0.693	0.674	0.699	0.640	0.653	0.657	6.46
40)	TM	Benzene	1.327	1.656	1.573	1.650	1.451	1.480	1.523	8.41
41)	T	Methacrylonitrile	0.186	0.259	0.258	0.292	0.265	0.262	0.254	13.95
42)	TM	1,2-Dichloroet...	0.468	0.587	0.558	0.576	0.512	0.517	0.536	8.46
43)	T	Isopropyl Acetate	0.527	0.792	0.786	0.850	0.779	0.802	0.756	15.22
44)	TM	Trichloroethene	0.350	0.427	0.392	0.420	0.371	0.383	0.391	7.51
45)	C	1,2-Dichloropr...	0.334	0.419	0.393	0.408	0.363	0.371	0.381	8.25#
46)	T	Dibromomethane	0.204	0.304	0.275	0.294	0.261	0.267	0.267	13.17
47)	T	Bromodichlorom...	0.494	0.626	0.579	0.617	0.543	0.557	0.569	8.68
48)	T	Methyl methacr...	0.418	0.400	0.397	0.440	0.404	0.413	0.412	3.83
49)	T	1,4-Dioxane	0.003	0.005	0.005	0.005	0.005	0.005	0.005	17.78
50)	S	Toluene-d8		1.293	0.821	0.924	0.946	1.014	1.000	17.79
51)	T	4-Methyl-2-Pen...	0.371	0.477	0.470	0.497	0.440	0.440	0.449	9.81
52)	CM	Toluene	0.762	1.047	0.987	1.017	0.896	0.910	0.936	11.12#
53)	T	t-1,3-Dichloro...	0.429	0.549	0.546	0.592	0.548	0.562	0.538	10.42
54)	T	cis-1,3-Dichlo...	0.442	0.611	0.618	0.653	0.593	0.614	0.588	12.62
55)	T	1,1,2-Trichlor...	0.300	0.391	0.373	0.376	0.332	0.335	0.351	9.87
56)	T	Ethyl methacry...	0.342	0.527	0.556	0.596	0.544	0.555	0.520	17.35

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X072125W.M

57)	T	1,3-Dichloropr...	0.530	0.687	0.639	0.653	0.576	0.577	0.610	9.62
58)	T	2-Chloroethyl ...	0.189	0.360	0.271	0.323	0.296	0.297	0.289	19.88
59)	T	2-Hexanone	0.192	0.312	0.324	0.343	0.305	0.304	0.297	17.93
60)	T	Dibromochlorom...	0.343	0.449	0.428	0.444	0.398	0.409	0.412	9.45
61)	T	1,2-Dibromoethane	0.334	0.398	0.377	0.395	0.349	0.351	0.367	7.28
62)	S	4-Bromofluorob...		0.514	0.369	0.409	0.417	0.445	0.431	12.53
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.322	0.403	0.381	0.376	0.337	0.344	0.360	8.62
65)	PM	Chlorobenzene	1.029	1.295	1.225	1.231	1.114	1.135	1.171	8.24
66)	T	1,1,1,2-Tetrac...	0.354	0.415	0.404	0.419	0.381	0.392	0.394	6.20
67)	C	Ethyl Benzene	1.814	2.189	2.119	2.204	1.975	1.987	2.048	7.35#
68)	T	m/p-Xylenes	0.693	0.827	0.795	0.818	0.734	0.732	0.766	7.07
69)	T	o-Xylene	0.586	0.820	0.769	0.785	0.704	0.711	0.729	11.38
70)	T	Styrene	1.024	1.356	1.332	1.361	1.209	1.219	1.250	10.38
71)	P	Bromoform	0.257	0.323	0.302	0.325	0.292	0.299	0.300	8.23
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.180	4.148	4.146	4.309	3.907	3.979	3.945	10.16
74)	T	N-amyl acetate	1.260	1.501	1.617	1.784	1.658	1.729	1.592	11.89
75)	P	1,1,2,2-Tetrac...	0.979	1.203	1.182	1.210	1.085	1.103	1.127	7.93
76)	T	1,2,3-Trichlor...	0.753	1.027	0.956	0.991	0.904	0.923	0.925	10.32
77)	T	Bromobenzene	0.796	0.997	0.997	1.017	0.925	0.945	0.946	8.58
78)	T	n-propylbenzene	3.796	5.061	4.947	5.118	4.618	4.743	4.714	10.36
79)	T	2-Chlorotoluene	2.428	3.036	2.895	3.029	2.730	2.789	2.818	8.07
80)	T	1,3,5-Trimethy...	2.639	3.508	3.437	3.523	3.181	3.265	3.259	10.22
81)	T	trans-1,4-Dich...		0.301	0.331	0.391	0.375	0.398	0.359	11.62
82)	T	4-Chlorotoluene	2.721	3.585	3.445	3.569	3.183	3.232	3.289	9.88
83)	T	tert-Butylbenzene	2.745	3.433	3.364	3.586	3.198	3.299	3.271	8.83
84)	T	1,2,4-Trimethy...	2.502	3.544	3.415	3.577	3.197	3.269	3.251	12.17
85)	T	sec-Butylbenzene	3.328	4.476	4.269	4.398	3.993	4.056	4.087	10.19
86)	T	p-Isopropyltol...	2.626	3.699	3.570	3.704	3.334	3.402	3.389	11.90
87)	T	1,3-Dichlorobe...	1.562	1.968	1.869	1.908	1.704	1.776	1.798	8.30
88)	T	1,4-Dichlorobe...	1.659	1.982	1.903	1.893	1.723	1.767	1.821	6.79
89)	T	n-Butylbenzene	2.645	3.317	3.324	3.456	3.141	3.187	3.178	8.94
90)	T	Hexachloroethane	0.519	0.601	0.603	0.655	0.619	0.640	0.606	7.84
91)	T	1,2-Dichlorobe...	1.533	1.873	1.764	1.824	1.625	1.691	1.718	7.40
92)	T	1,2-Dibromo-3-...	0.140	0.223	0.223	0.239	0.231	0.242	0.216	17.61
93)	T	1,2,4-Trichlor...	0.919	1.189	1.159	1.224	1.144	1.176	1.135	9.64
94)	T	Hexachlorobuta...	0.334	0.396	0.407	0.406	0.392	0.382	0.386	6.99
95)	T	Naphthalene	2.369	3.231	3.425	3.753	3.499	3.691	3.328	15.20
96)	T	1,2,3-Trichlor...	0.925	1.120	1.117	1.172	1.102	1.126	1.094	7.87

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047055.D
Acq On : 21 Jul 2025 09:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 22 03:35:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.562	168	337975	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.769	114	582229	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	522701	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	266871	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	1.185	85	3490	0.777	ug/l		87
3) Chloromethane	1.307	50	3931	0.885	ug/l	#	86
4) Vinyl Chloride	1.392	62	3909	0.819	ug/l		94
6) Chloroethane	1.709	64	3698	1.180	ug/l		95
7) Trichlorofluoromethane	1.910	101	5767	0.810	ug/l		91
8) Diethyl Ether	2.154	74	2227	0.887	ug/l		93
9) 1,1,2-Trichlorotrifluo...	2.349	101	3769	0.879	ug/l		98
12) 1,1-Dichloroethene	2.343	96	3739	0.880	ug/l		94
14) Allyl chloride	2.684	41	6361	0.829	ug/l		86
15) Acrylonitrile	3.087	53	7013	3.493	ug/l		86
16) Acetone	2.392	43	9071	5.378	ug/l	#	88
17) Carbon Disulfide	2.532	76	11039	0.898	ug/l	#	91
18) Methyl Acetate	2.715	43	4440	0.991	ug/l	#	68
19) Methyl tert-butyl Ether	3.130	73	11087	0.858	ug/l		98
20) Methylene Chloride	2.800	84	4289	0.924	ug/l	#	91
21) trans-1,2-Dichloroethene	3.111	96	3590	0.826	ug/l	#	92
22) Diisopropyl ether	3.776	45	12222	0.828	ug/l		92
23) Vinyl Acetate	3.739	43	45048	3.805	ug/l		100
24) 1,1-Dichloroethane	3.629	63	7054	0.859	ug/l	#	94
25) 2-Butanone	4.617	43	10725	4.367	ug/l		99
26) 2,2-Dichloropropane	4.495	77	5905	0.929	ug/l		88
27) cis-1,2-Dichloroethene	4.501	96	4527	0.880	ug/l		84
28) Bromochloromethane	4.916	49	3092	0.819	ug/l	#	98
29) Tetrahydrofuran	5.032	42	6164	3.890	ug/l	#	87
30) Chloroform	5.111	83	7976	0.955	ug/l		86
32) 1,1,1-Trichloroethane	5.397	97	6496	0.895	ug/l	#	51
36) 1,1-Dichloropropene	5.708	75	6705	1.094	ug/l	#	87
37) Ethyl Acetate	4.751	43	5770m	1.068	ug/l		
38) Carbon Tetrachloride	5.696	117	6120	0.936	ug/l		96
39) Methylcyclohexane	7.379	83	6794	0.888	ug/l		90
40) Benzene	6.050	78	15450	0.871	ug/l		91
41) Methacrylonitrile	4.971	41	2166	0.734	ug/l	#	74
42) 1,2-Dichloroethane	6.105	62	5449	0.872	ug/l		98
43) Isopropyl Acetate	6.367	43	6134	0.697	ug/l	#	94
44) Trichloroethene	7.147	130	4075	0.896	ug/l		62
45) 1,2-Dichloropropane	7.440	63	3895	0.877	ug/l		93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047055.D
Acq On : 21 Jul 2025 09:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:35:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.592	93	2372	0.762	ug/l		88
47) Bromodichloromethane	7.830	83	5749	0.867	ug/l	#	87
48) Methyl methacrylate	7.714	41	4863m	1.014	ug/l		
49) 1,4-Dioxane	7.684	88	700m	12.834	ug/l		
51) 4-Methyl-2-Pentanone	8.580	43	21616	4.131	ug/l		95
52) Toluene	8.726	92	8872	0.814	ug/l		96
53) t-1,3-Dichloropropene	8.994	75	4993	0.798	ug/l		93
54) cis-1,3-Dichloropropene	8.379	75	5149	0.751	ug/l	#	73
55) 1,1,2-Trichloroethane	9.153	97	3490	0.853	ug/l	#	88
56) Ethyl methacrylate	9.128	69	3978	0.657	ug/l		91
57) 1,3-Dichloropropane	9.311	76	6170	0.868	ug/l	#	88
58) 2-Chloroethyl Vinyl ether	8.251	63	11010	3.268	ug/l		98
59) 2-Hexanone	9.439	43	11200	3.240	ug/l		87
60) Dibromochloromethane	9.525	129	3998	0.834	ug/l		91
61) 1,2-Dibromoethane	9.616	107	3885	0.909	ug/l		98
64) Tetrachloroethene	9.275	164	3363	0.892	ug/l	#	90
65) Chlorobenzene	10.080	112	10754	0.878	ug/l	#	80
66) 1,1,1,2-Tetrachloroethane	10.165	131	3699	0.897	ug/l	#	64
67) Ethyl Benzene	10.195	91	18959	0.886	ug/l		100
68) m/p-Xylenes	10.299	106	14496	1.809	ug/l		94
69) o-Xylene	10.640	106	6125	0.804	ug/l		91
70) Styrene	10.659	104	10704	0.819	ug/l		93
71) Bromoform	10.799	173	2687	0.858	ug/l	#	97
73) Isopropylbenzene	10.964	105	16971	0.806	ug/l		100
74) N-amyl acetate	10.848	43	6726m	0.801	ug/l		
75) 1,1,2,2-Tetrachloroethane	11.213	83	5223	0.868	ug/l		96
76) 1,2,3-Trichloropropane	11.244	75	4019m	0.814	ug/l		
77) Bromobenzene	11.201	156	4251	0.842	ug/l		94
78) n-propylbenzene	11.305	91	20259	0.805	ug/l		99
79) 2-Chlorotoluene	11.366	91	12959	0.862	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	14083	0.810	ug/l		98
82) 4-Chlorotoluene	11.457	91	14521	0.827	ug/l		97
83) tert-Butylbenzene	11.713	119	14652	0.839	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	13354	0.770	ug/l		98
85) sec-Butylbenzene	11.890	105	17765	0.814	ug/l		95
86) p-Isopropyltoluene	12.006	119	14016	0.775	ug/l		89
87) 1,3-Dichlorobenzene	11.969	146	8335	0.869	ug/l		97
88) 1,4-Dichlorobenzene	12.043	146	8857m	0.911	ug/l		
89) n-Butylbenzene	12.329	91	14116	0.832	ug/l		95
90) Hexachloroethane	12.536	117	2772	0.857	ug/l		90
91) 1,2-Dichlorobenzene	12.335	146	8184	0.892	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	12.945	75	749	0.649	ug/l		92
93) 1,2,4-Trichlorobenzene	13.591	180	4906	0.810	ug/l		98
94) Hexachlorobutadiene	13.725	225	1785	0.866	ug/l		98
95) Naphthalene	13.780	128	12647	0.712	ug/l		97
96) 1,2,3-Trichlorobenzene	13.963	180	4936	0.846	ug/l		95

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

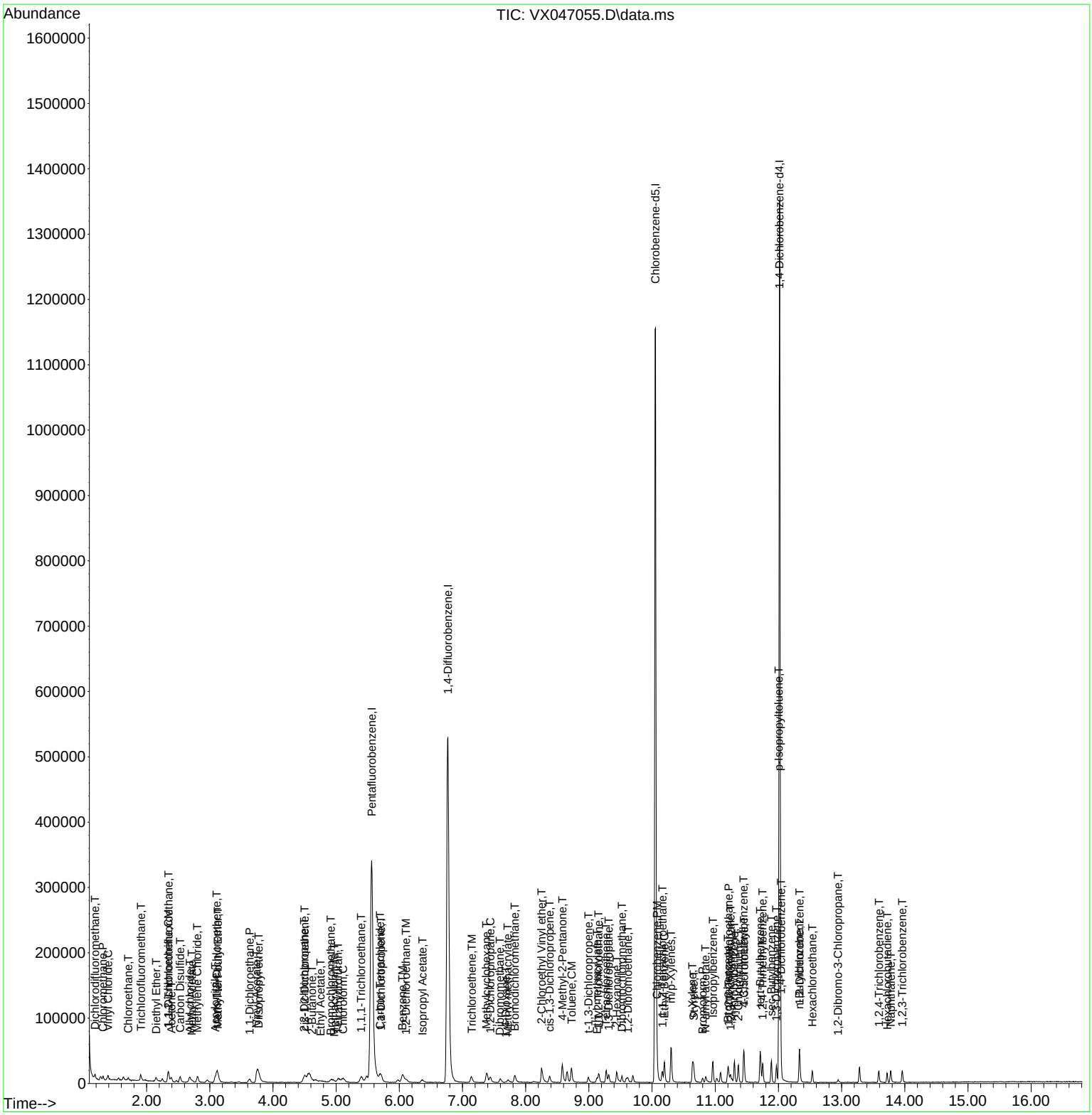
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047055.D
Acq On : 21 Jul 2025 09:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

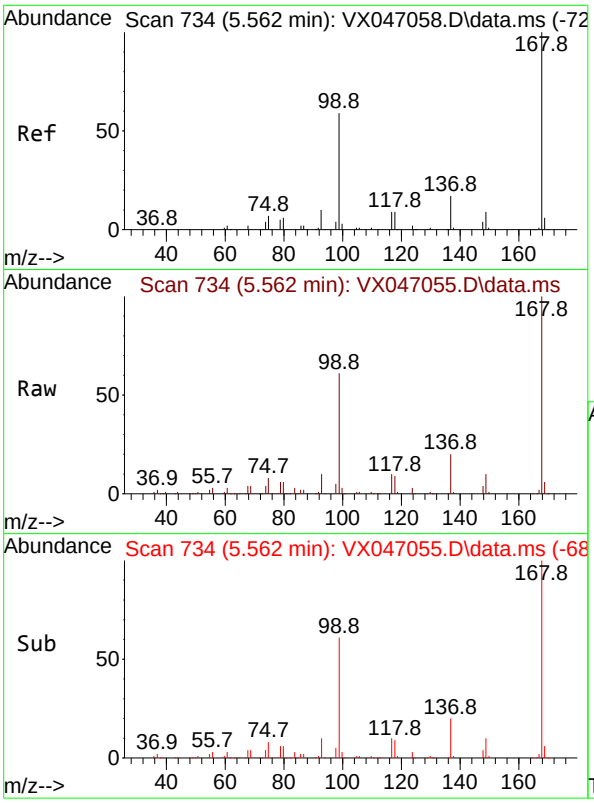
Quant Time: Jul 22 03:35:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

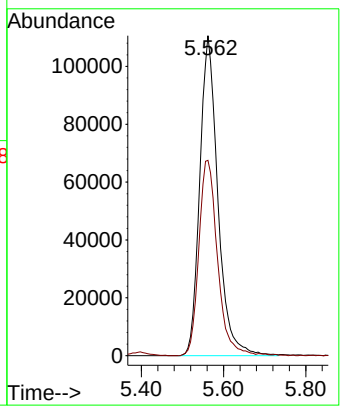




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:168 Resp: 33797

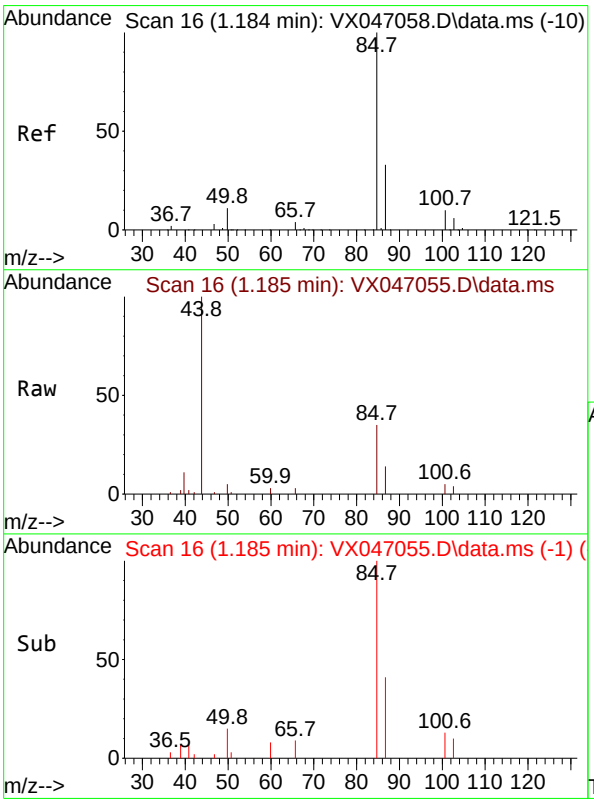
Ion	Ratio	Lower	Upper
168	100		
99	61.0	48.0	72.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

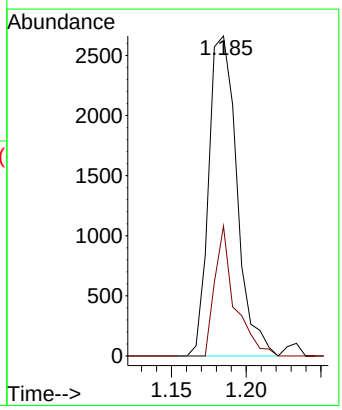
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

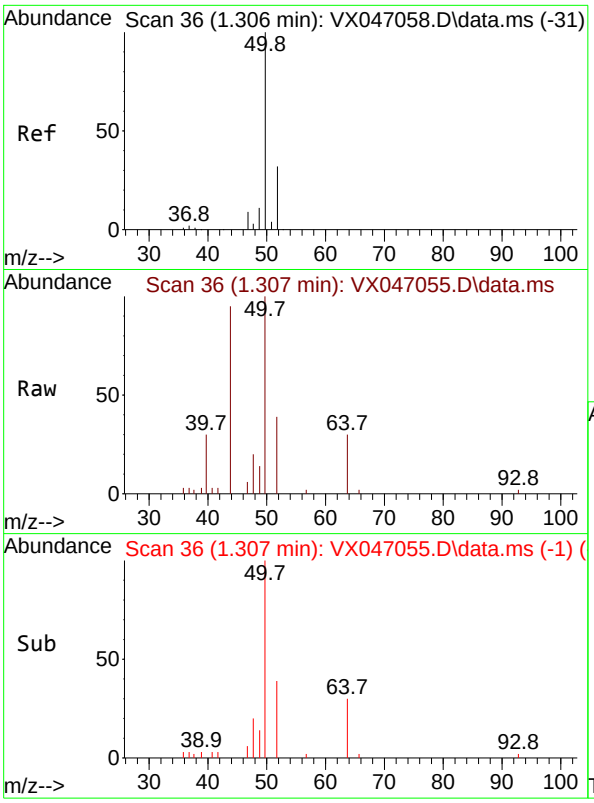


#2
Dichlorodifluoromethane
Concen: 0.777 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 85 Resp: 3490

Ion	Ratio	Lower	Upper
85	100		
87	40.6	16.6	49.8

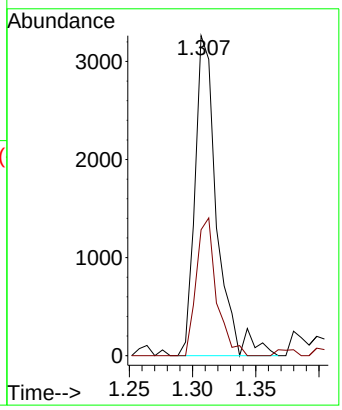




#3
Chloromethane
Concen: 0.885 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 50 Resp: 393

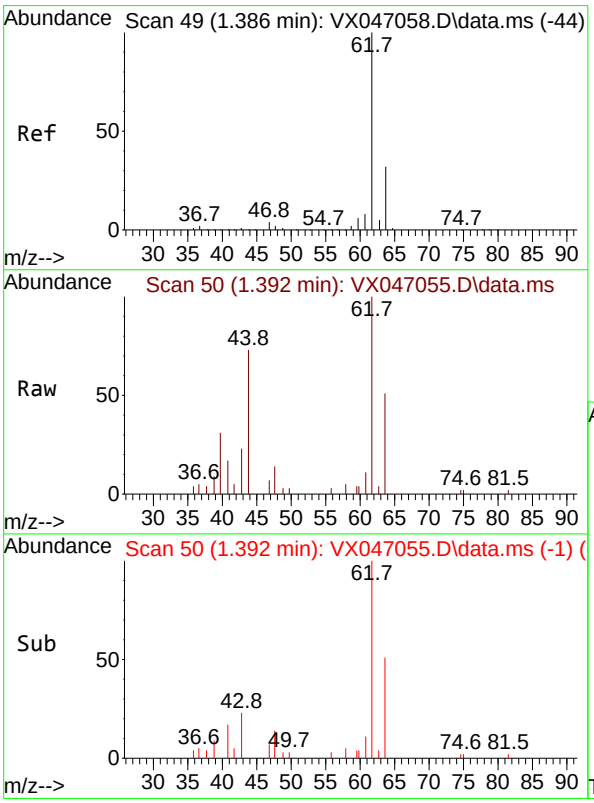
Ion	Ratio	Lower	Upper
50	100		
52	39.4	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

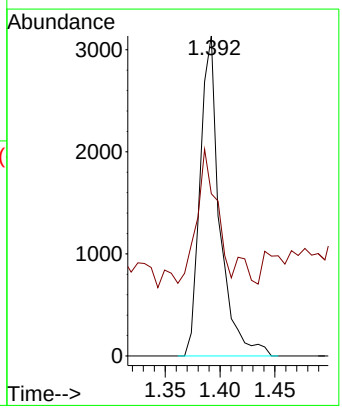
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

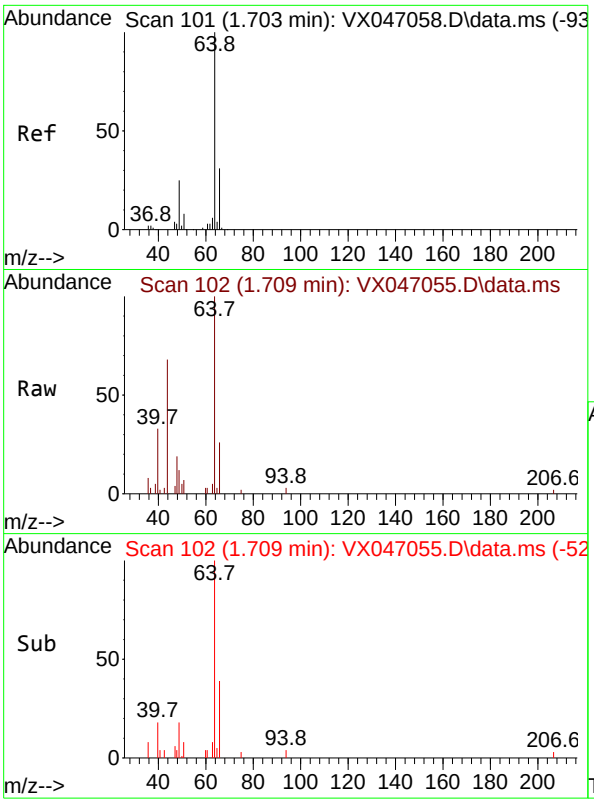


#4
Vinyl Chloride
Concen: 0.819 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 62 Resp: 3909

Ion	Ratio	Lower	Upper
62	100		
64	28.0	25.2	37.8

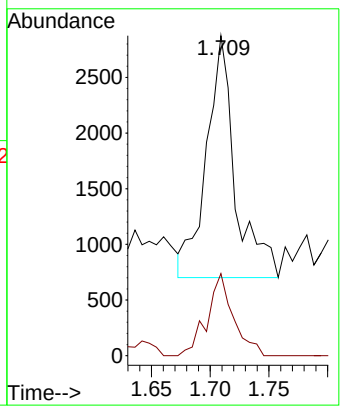




#6
Chloroethane
Concen: 1.180 ug/l
RT: 1.709 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 64 Resp: 369

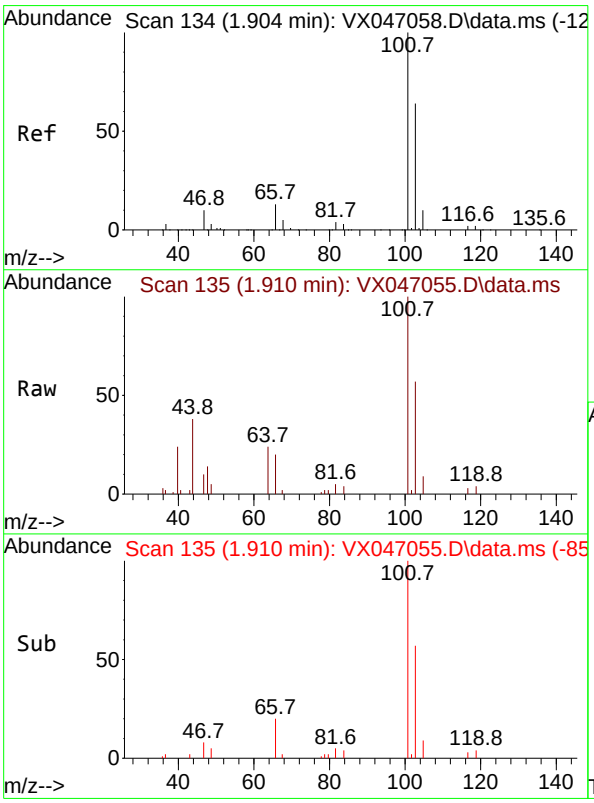
Ion	Ratio	Lower	Upper
64	100		
66	34.0	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

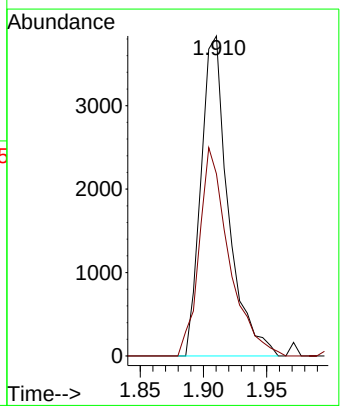
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

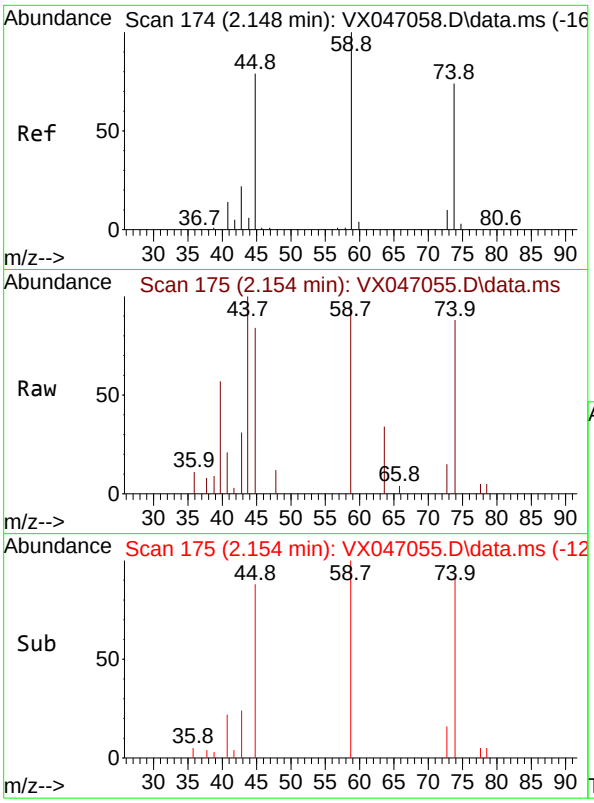


#7
Trichlorofluoromethane
Concen: 0.810 ug/l
RT: 1.910 min Scan# 135
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:101 Resp: 5767

Ion	Ratio	Lower	Upper
101	100		
103	56.9	50.9	76.3





#8
Diethyl Ether
Concen: 0.887 ug/l
RT: 2.154 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

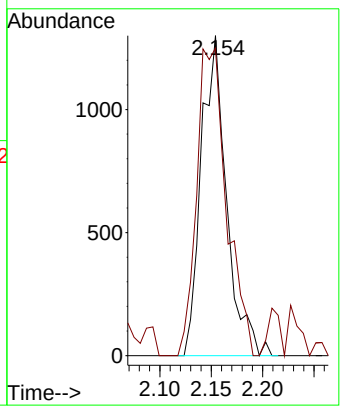
Tgt Ion: 74 Resp: 222

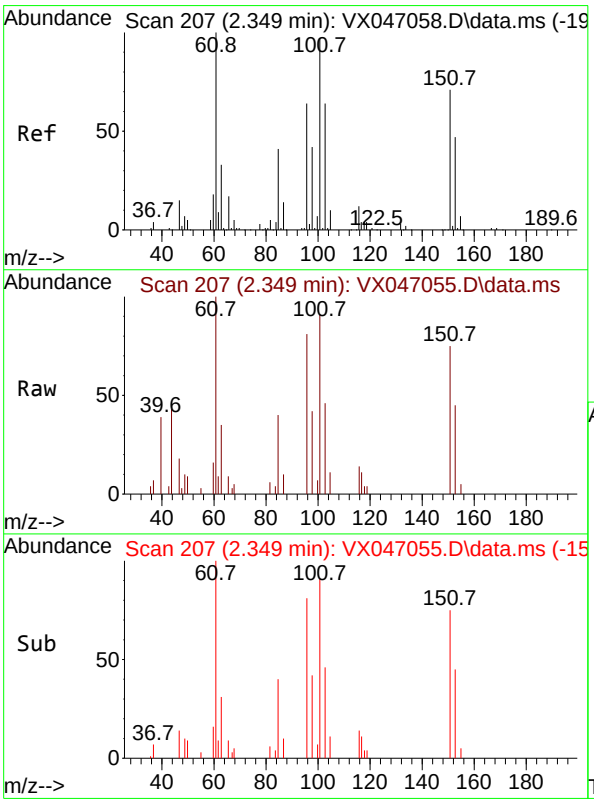
Ion	Ratio	Lower	Upper
74	100		
45	113.7	53.0	159.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

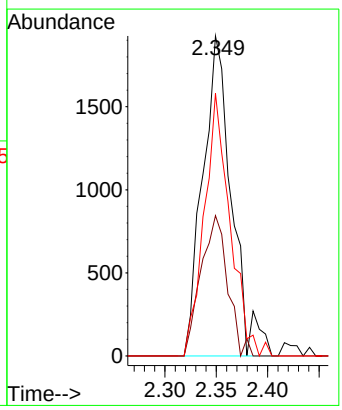


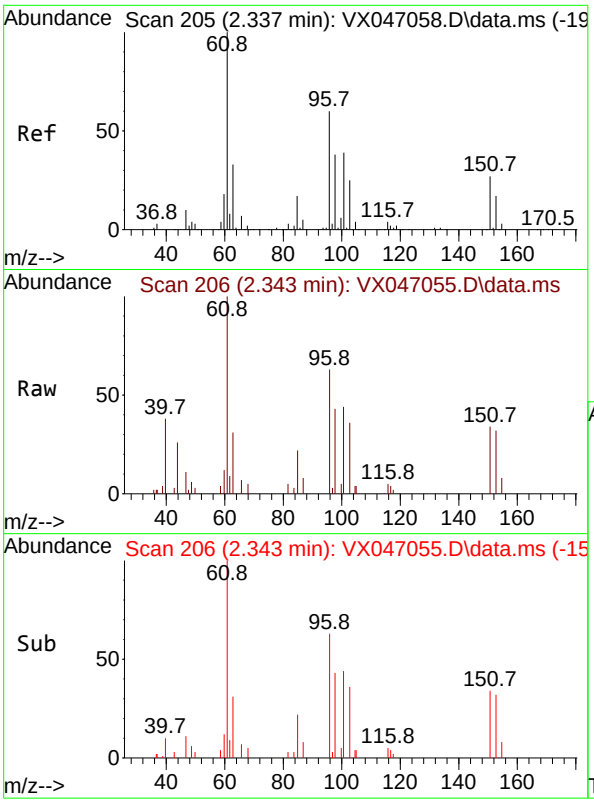


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.879 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:101 Resp: 3769

Ion	Ratio	Lower	Upper
101	100		
85	40.5	35.4	53.0
151	73.5	59.2	88.8

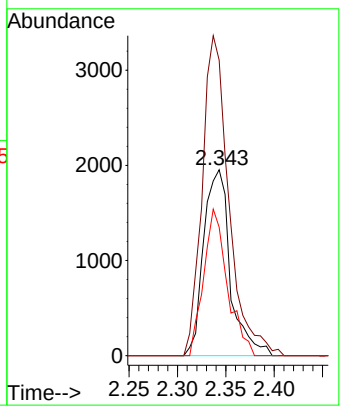




#12
1,1-Dichloroethene
Concen: 0.880 ug/l
RT: 2.343 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 96 Resp: 373

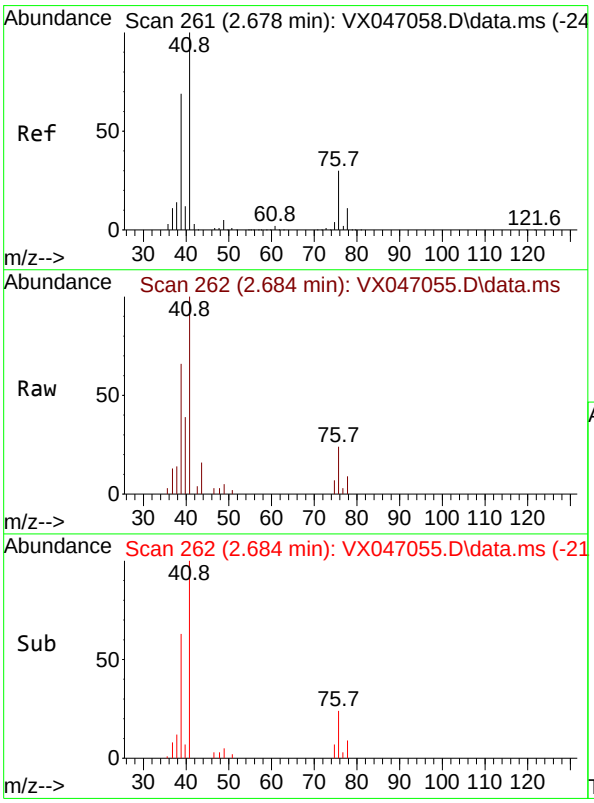
Ion	Ratio	Lower	Upper
96	100		
61	159.0	132.6	198.8
98	69.1	50.2	75.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

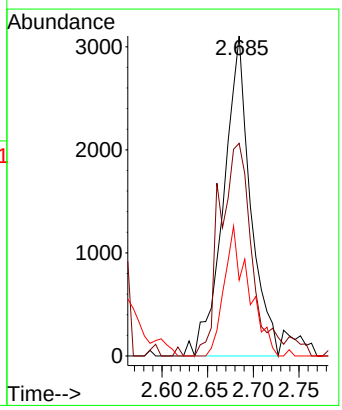
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

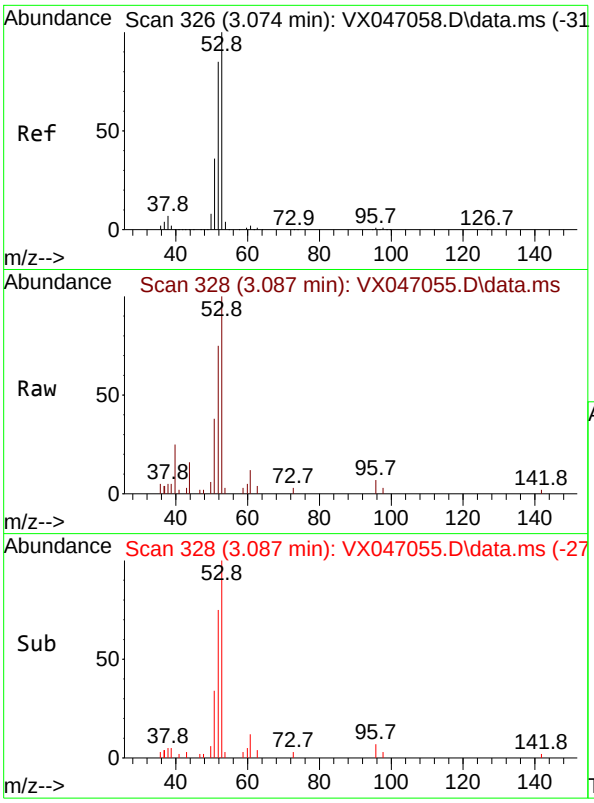


#14
Allyl chloride
Concen: 0.829 ug/l
RT: 2.684 min Scan# 262
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 41 Resp: 6361

Ion	Ratio	Lower	Upper
41	100		
39	78.3	52.6	78.8
76	37.1	25.7	38.5

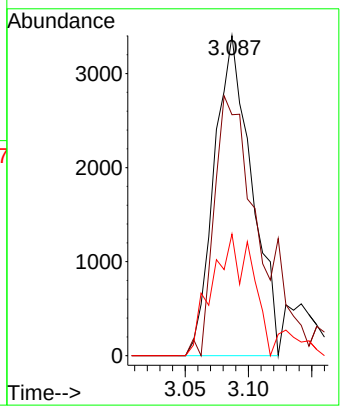




#15
Acrylonitrile
Concen: 3.493 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.013 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 53 Resp: 701

Ion	Ratio	Lower	Upper
53	100		
52	96.5	65.7	98.5
51	40.6	28.8	43.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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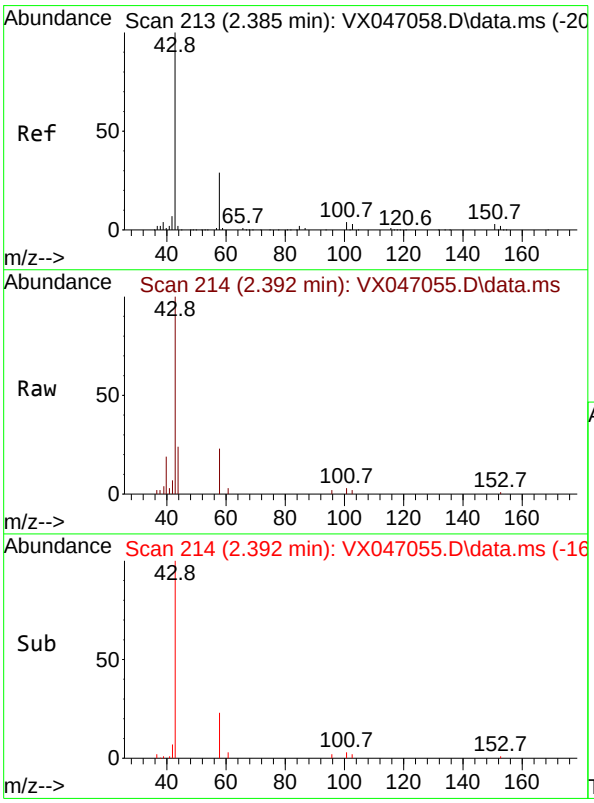
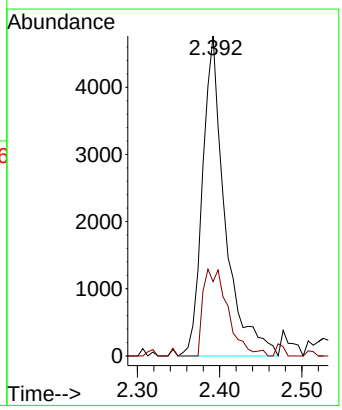
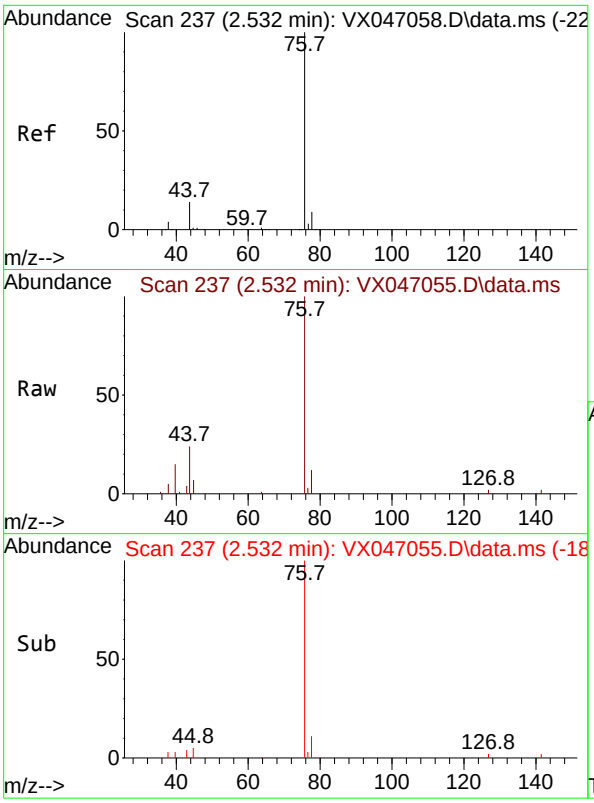


#16
Acetone
Concen: 5.378 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 43 Resp: 9071

Ion	Ratio	Lower	Upper
43	100		
58	23.3	24.0	36.0#





#17
Carbon Disulfide
Concen: 0.898 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 76 Resp: 1103

Ion	Ratio	Lower	Upper
76	100		
78	11.8	7.0	10.4#

Instrument :
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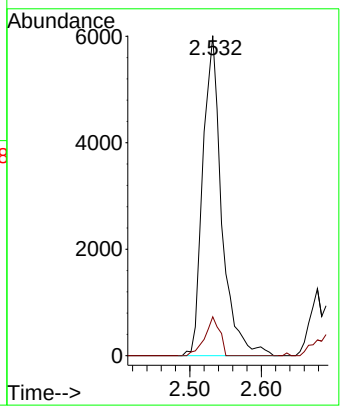
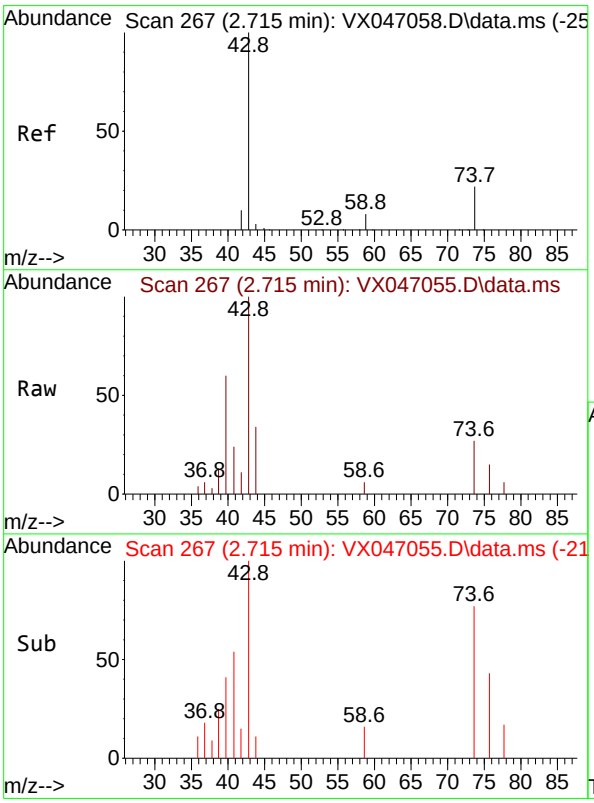
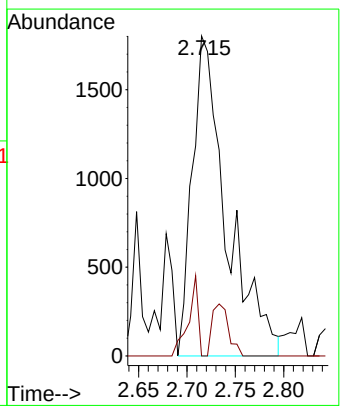


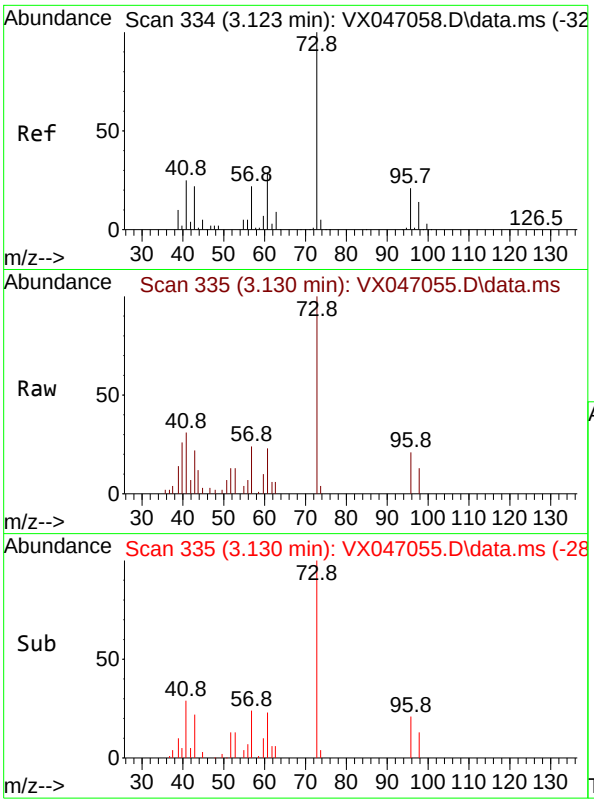


#18
Methyl Acetate
Concen: 0.991 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 43 Resp: 4440

Ion	Ratio	Lower	Upper
43	100		
74	7.0	17.7	26.5#

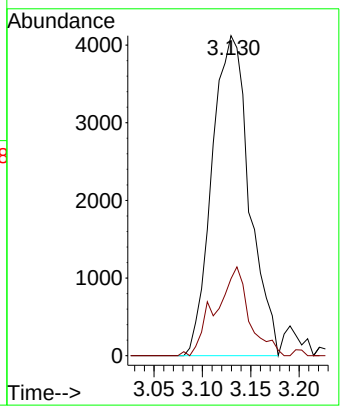




#19
Methyl tert-butyl Ether
Concen: 0.858 ug/l
RT: 3.130 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 73 Resp: 1108

Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.7	26.5



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ClientSampleId :
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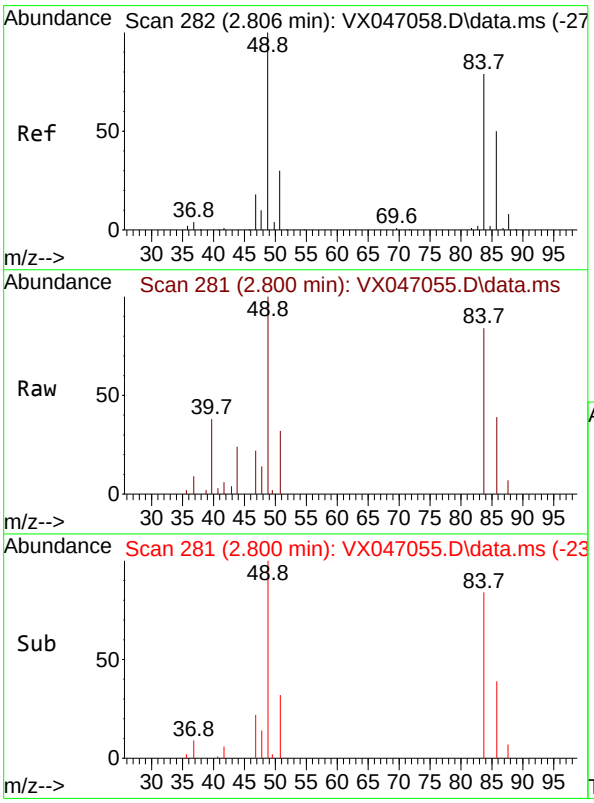
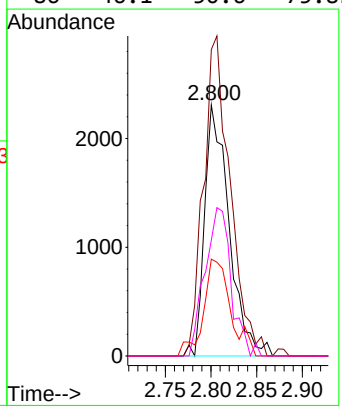
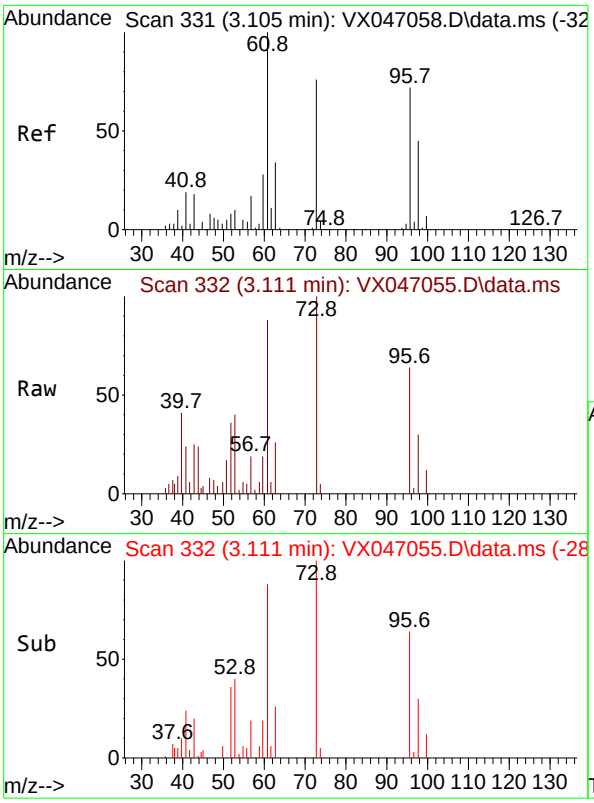


#20
Methylene Chloride
Concen: 0.924 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 84 Resp: 4289

Ion	Ratio	Lower	Upper
84	100		
49	122.0	101.6	152.4
51	38.6	30.3	45.5
86	46.1	50.6	75.8#

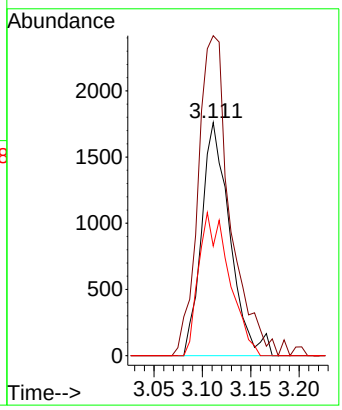




#21
trans-1,2-Dichloroethene
Concen: 0.826 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 96 Resp: 359

Ion	Ratio	Lower	Upper
96	100		
61	140.5	111.1	166.7
98	45.0	49.6	74.4



Instrument :
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ClientSampleId :
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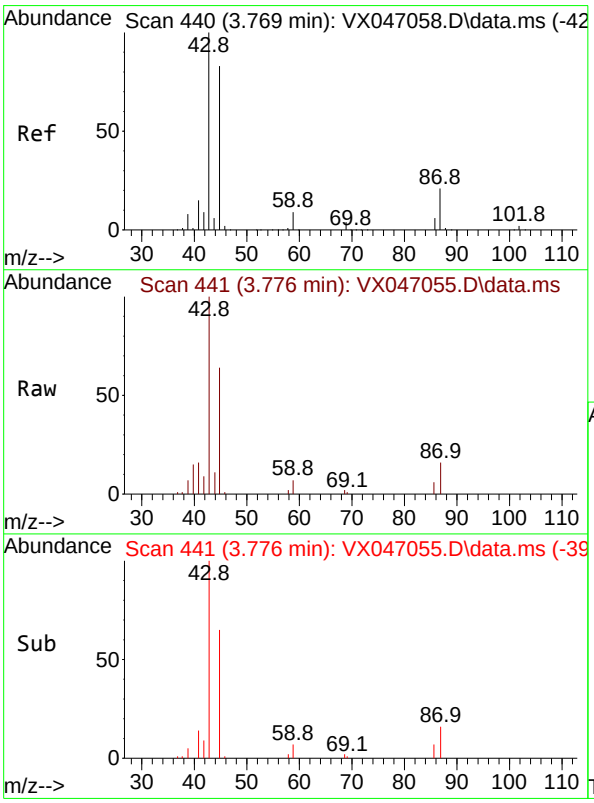
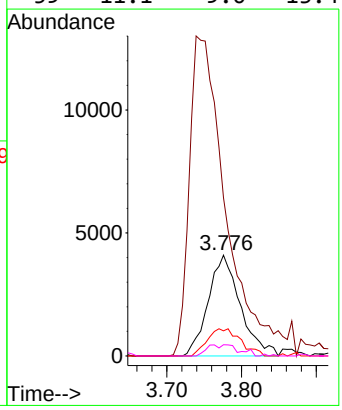
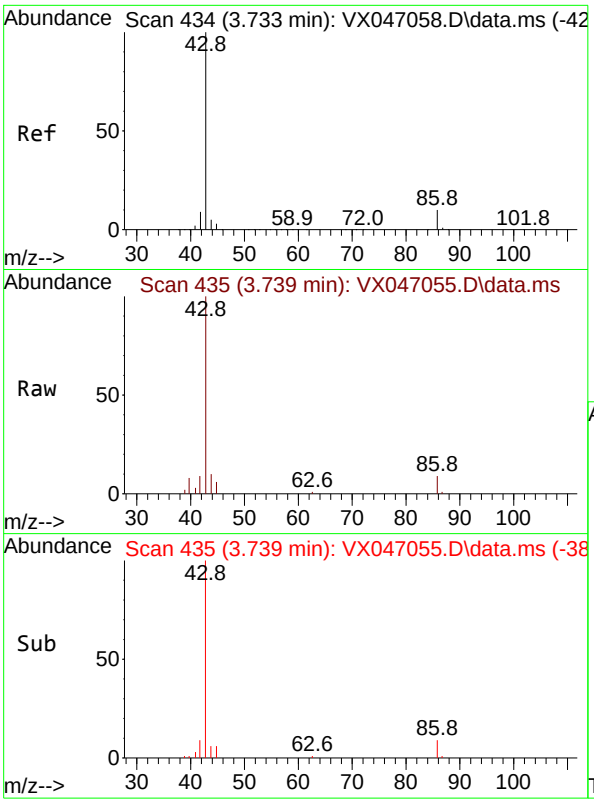


#22
Diisopropyl ether
Concen: 0.828 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 45 Resp: 12222

Ion	Ratio	Lower	Upper
45	100		
43	132.0	96.8	145.2
87	24.9	20.5	30.7
59	11.1	9.0	13.4

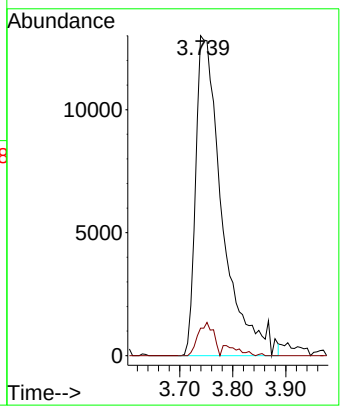




#23
Vinyl Acetate
Concen: 3.805 ug/l
RT: 3.739 min Scan# 4
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 43 Resp: 4504

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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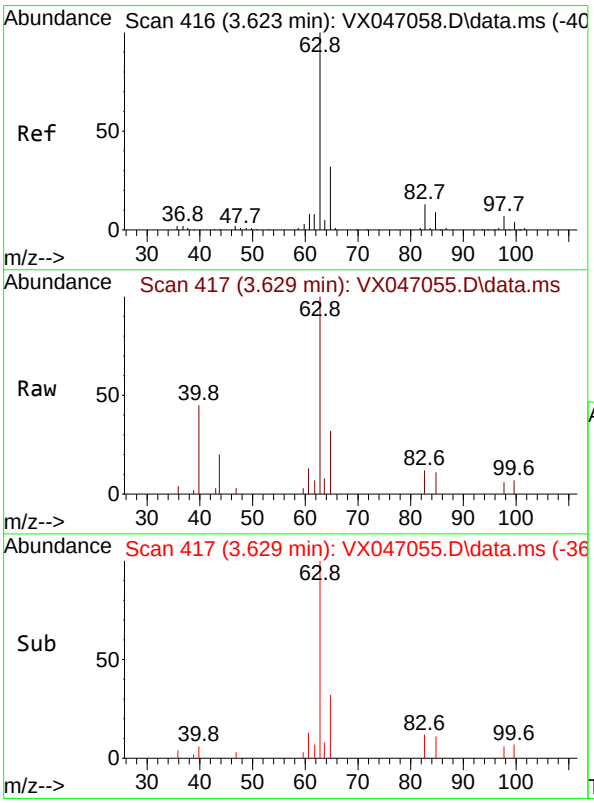
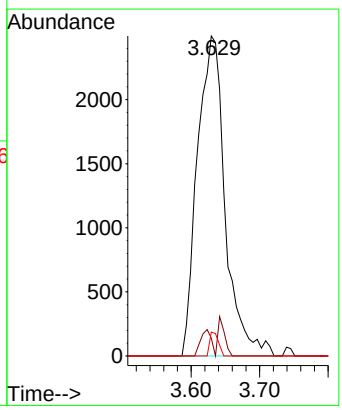
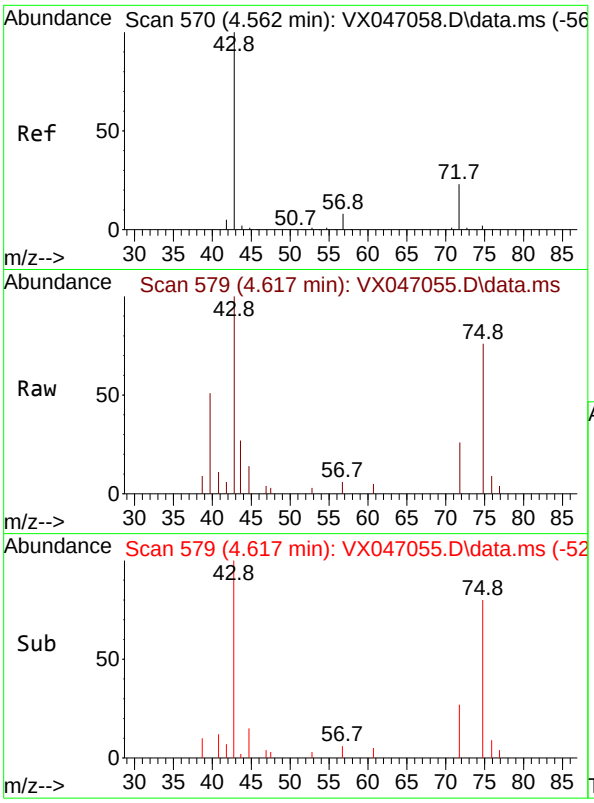


#24
1,1-Dichloroethane
Concen: 0.859 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 63 Resp: 7054

Ion	Ratio	Lower	Upper
63	100		
98	5.1	3.6	10.8
100	6.9	2.3	6.8#





#25
2-Butanone
Concen: 4.367 ug/l
RT: 4.617 min Scan# 5
Delta R.T. 0.055 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 43 Resp: 1072

Ion	Ratio	Lower	Upper
43	100		
72	24.2	18.8	28.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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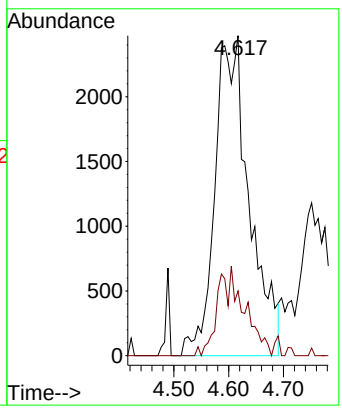
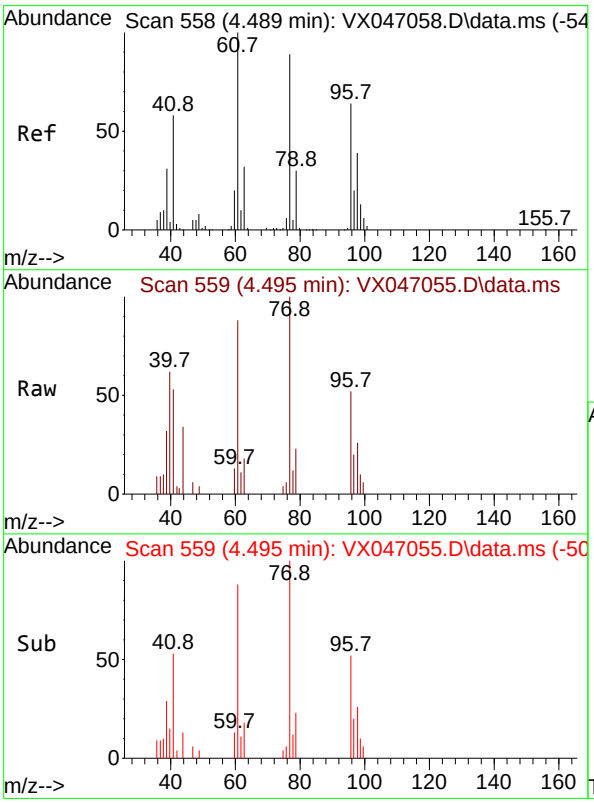
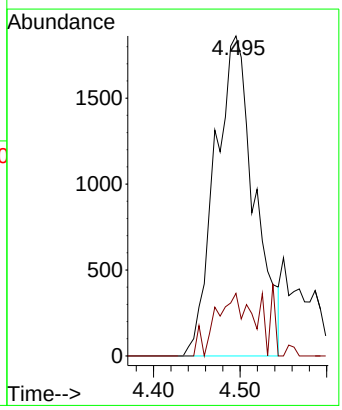


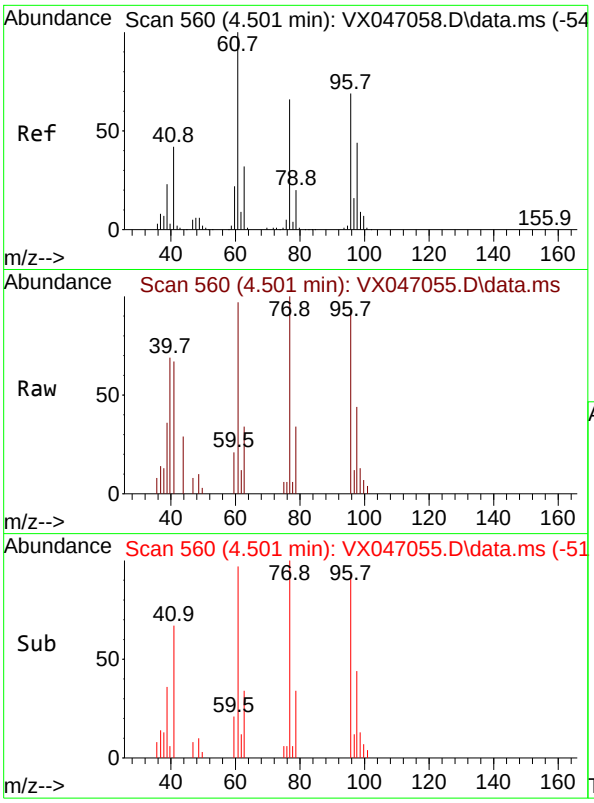


#26
2,2-Dichloropropane
Concen: 0.929 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 77 Resp: 5905

Ion	Ratio	Lower	Upper
77	100		
97	16.7	11.4	34.1

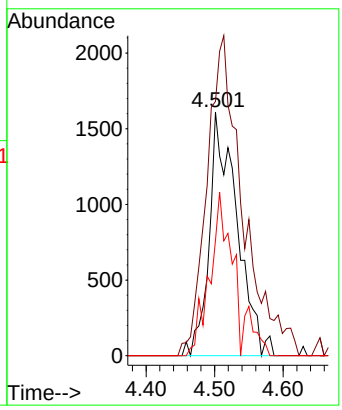




#27
cis-1,2-Dichloroethene
Concen: 0.880 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 96 Resp: 452

Ion	Ratio	Lower	Upper
96	100		
61	170.3	0.0	298.6
98	53.7	0.0	128.8



Instrument :
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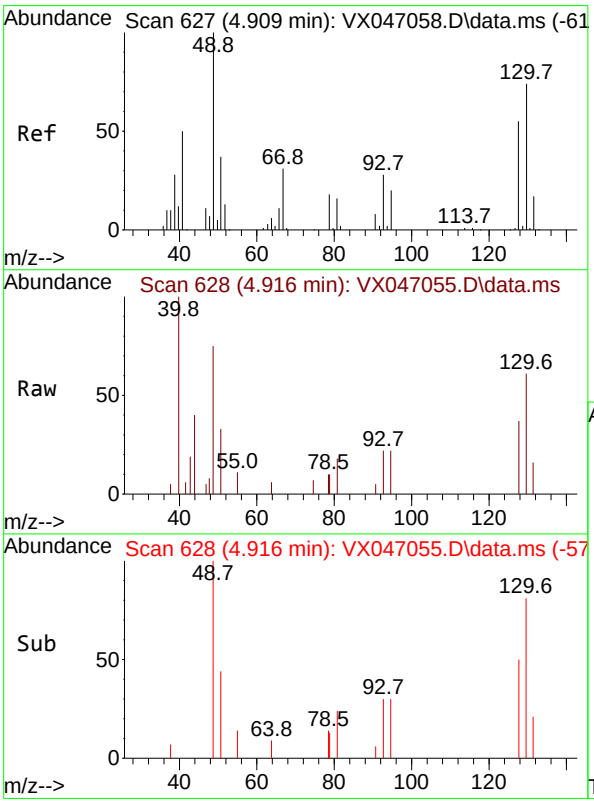
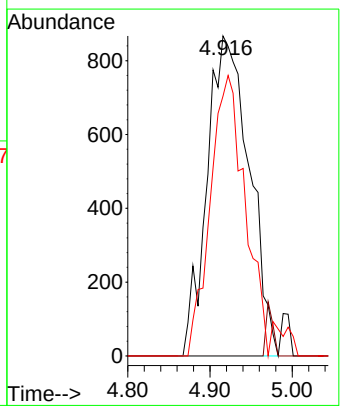
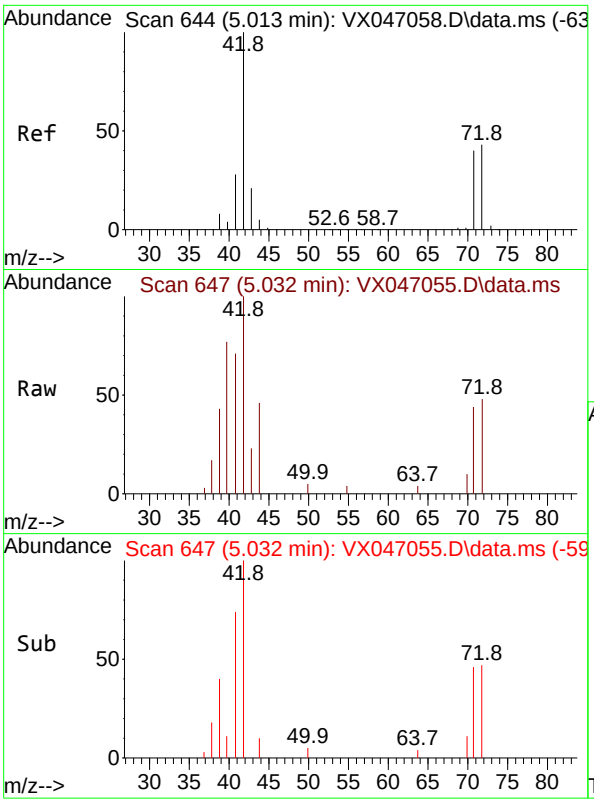


#28
Bromochloromethane
Concen: 0.819 ug/l
RT: 4.916 min Scan# 628
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 49 Resp: 3092

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	72.3	59.0	88.4





#29
Tetrahydrofuran
Concen: 3.890 ug/l
RT: 5.032 min Scan# 64
Delta R.T. 0.019 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 42 Resp: 616

Ion	Ratio	Lower	Upper
42	100		
72	26.7	33.7	50.5
71	38.0	31.0	46.4

Instrument :
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ClientSampleId :
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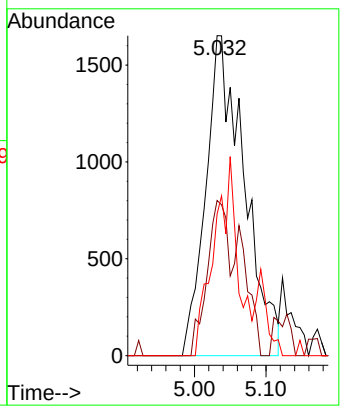
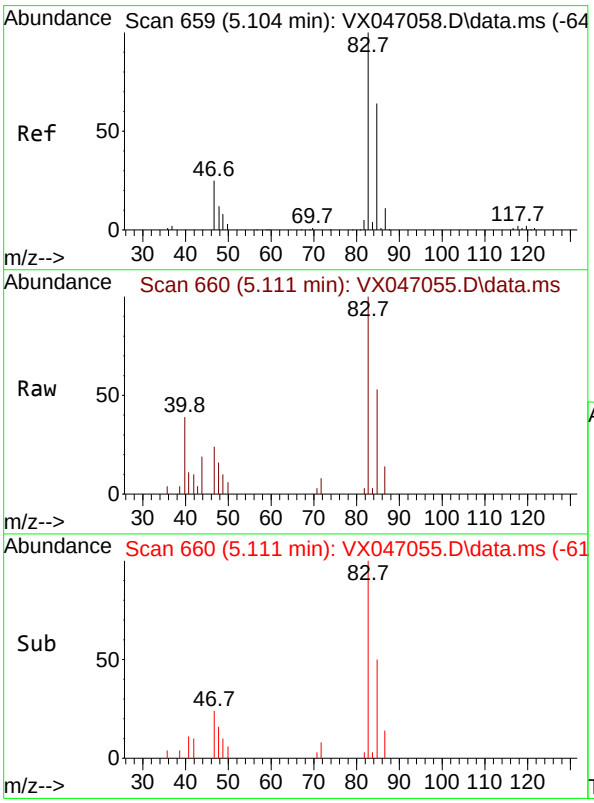
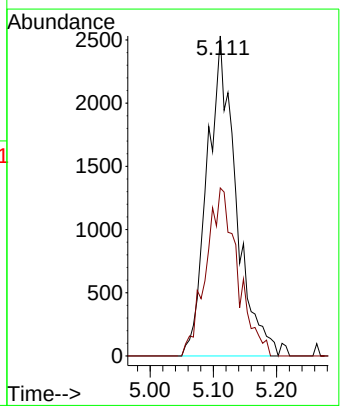


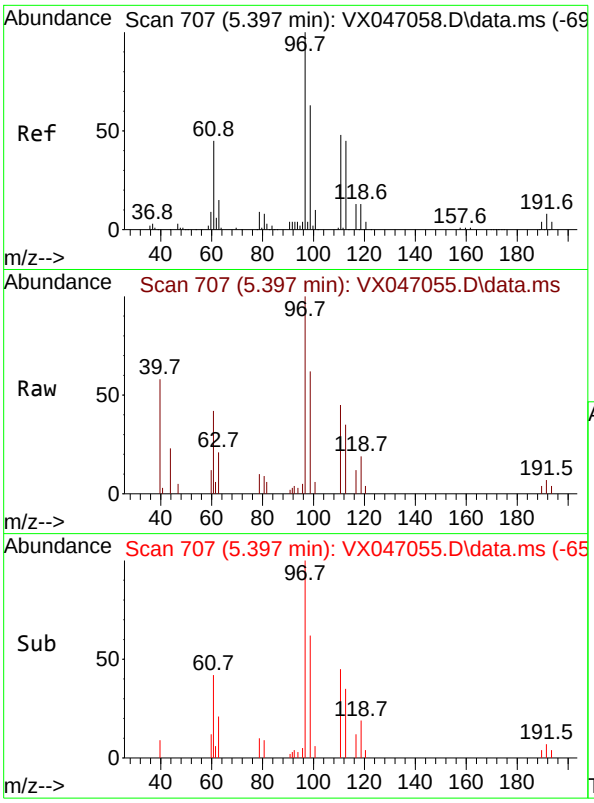


#30
Chloroform
Concen: 0.955 ug/l
RT: 5.111 min Scan# 660
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 83 Resp: 7976

Ion	Ratio	Lower	Upper
83	100		
85	52.5	50.9	76.3

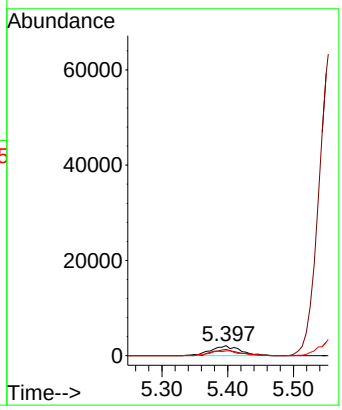




#32
1,1,1-Trichloroethane
Concen: 0.895 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 97 Resp: 649

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.2	76.8#
61	48.6	37.1	55.7



Instrument :
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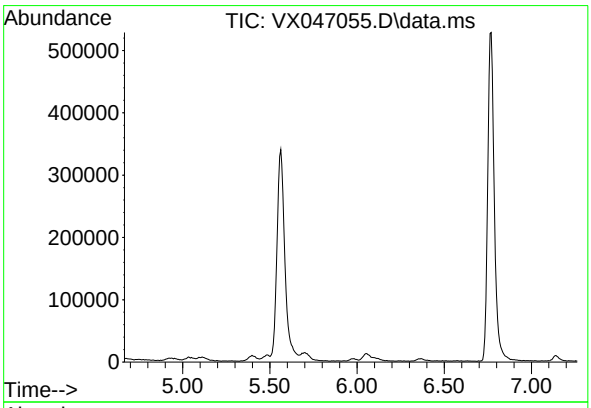
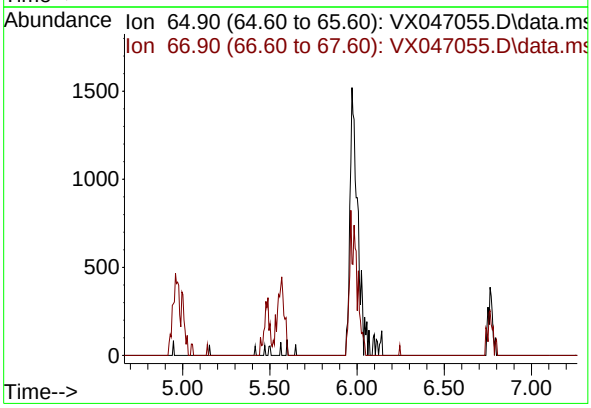


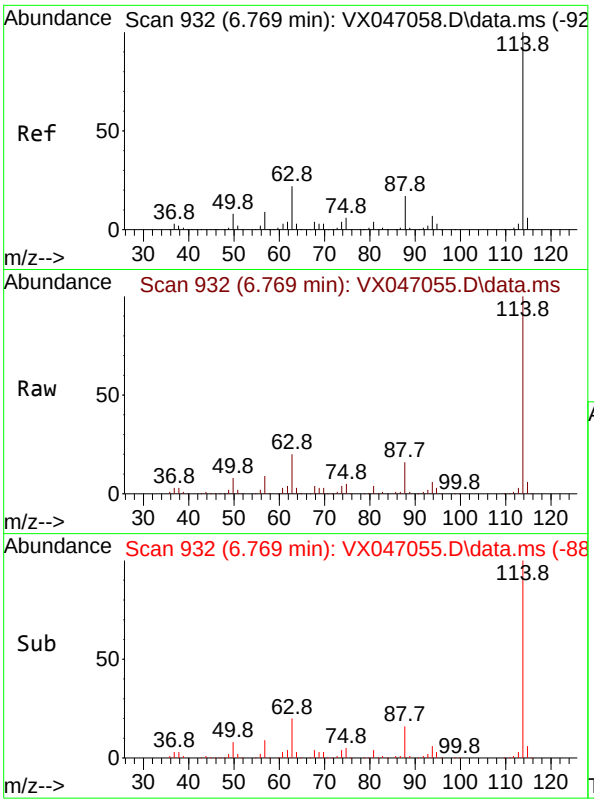
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.96 min

Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	52.4





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:114 Resp: 58222

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	43.2
88	15.9	0.0	33.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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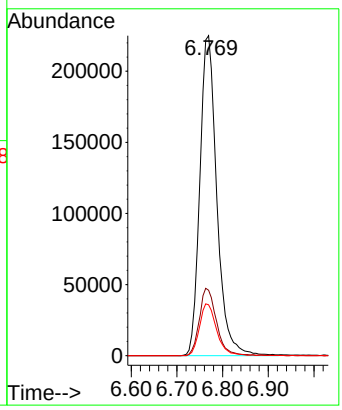
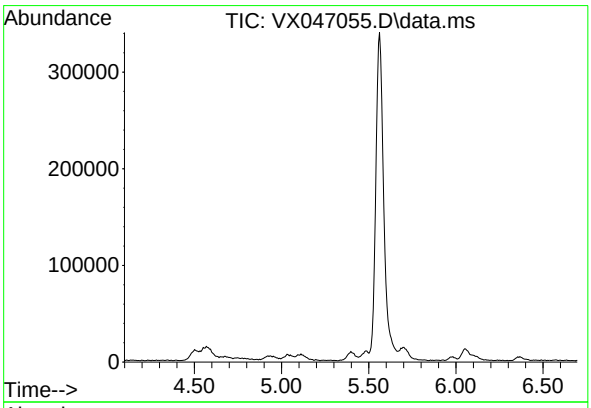
Supervised By :Mahesh Dadoda 07/22/2025



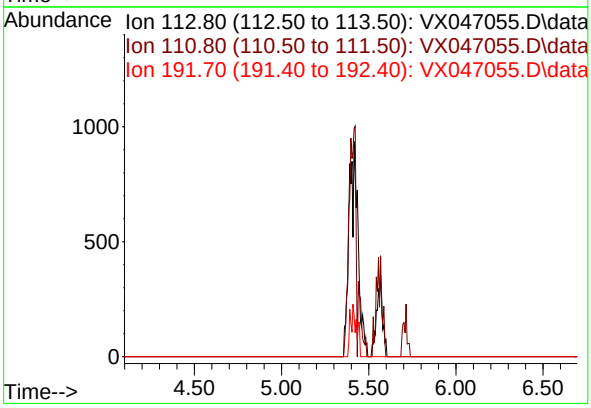


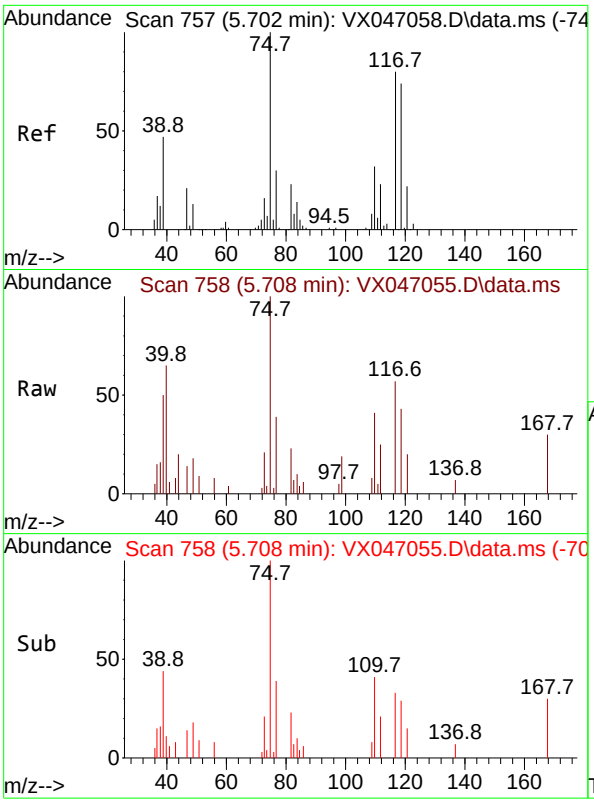
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.40 min

Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	103.3
192	18.6

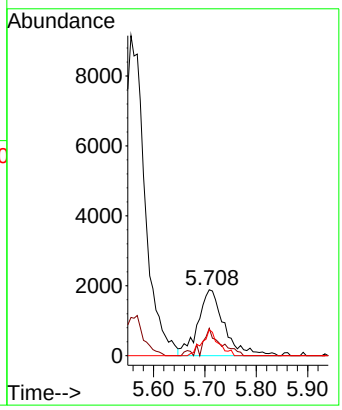




#36
1,1-Dichloropropene
Concen: 1.094 ug/l
RT: 5.708 min Scan# 7
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 75 Resp: 670

Ion	Ratio	Lower	Upper
75	100		
110	26.3	17.2	51.5
77	24.7	25.1	37.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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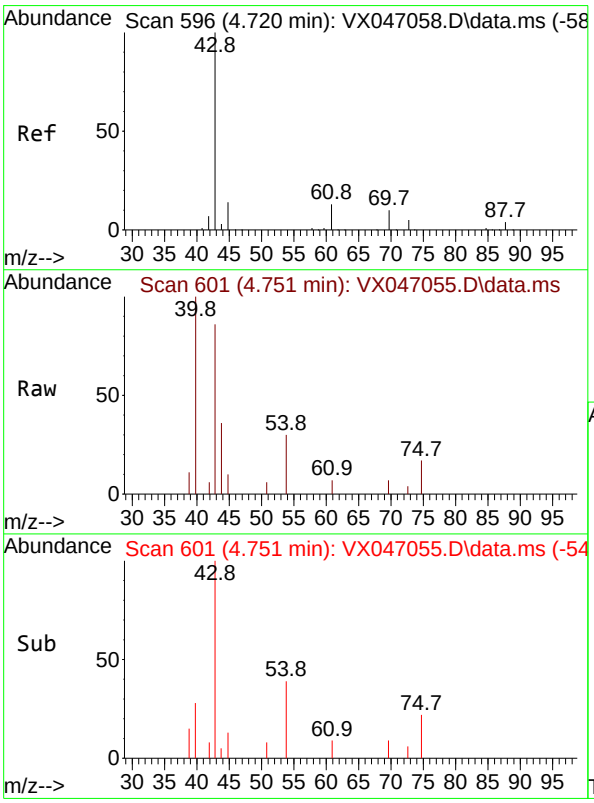
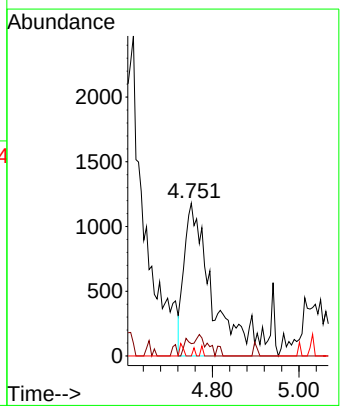
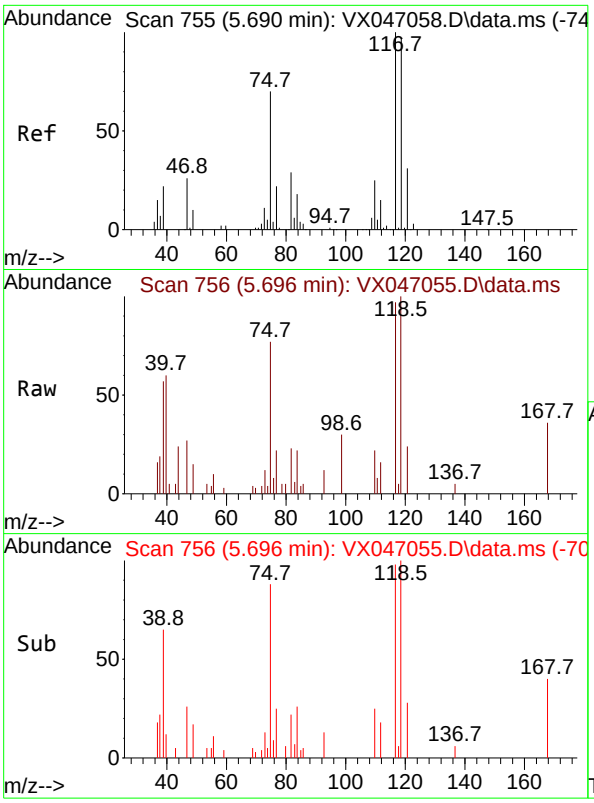


#37
Ethyl Acetate
Concen: 1.068 ug/l m
RT: 4.751 min Scan# 601
Delta R.T. 0.031 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 43 Resp: 5770

Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.2	15.2#
70	0.4	8.1	12.1#

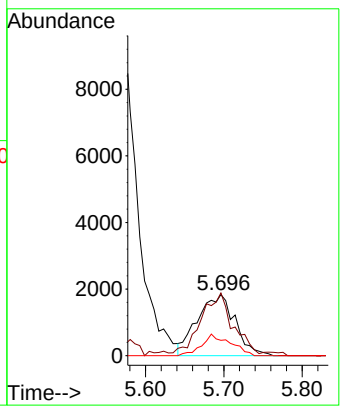




#38
Carbon Tetrachloride
Concen: 0.936 ug/l
RT: 5.696 min Scan# 7
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:117 Resp: 612

Ion	Ratio	Lower	Upper
117	100		
119	97.9	76.6	115.0
121	25.1	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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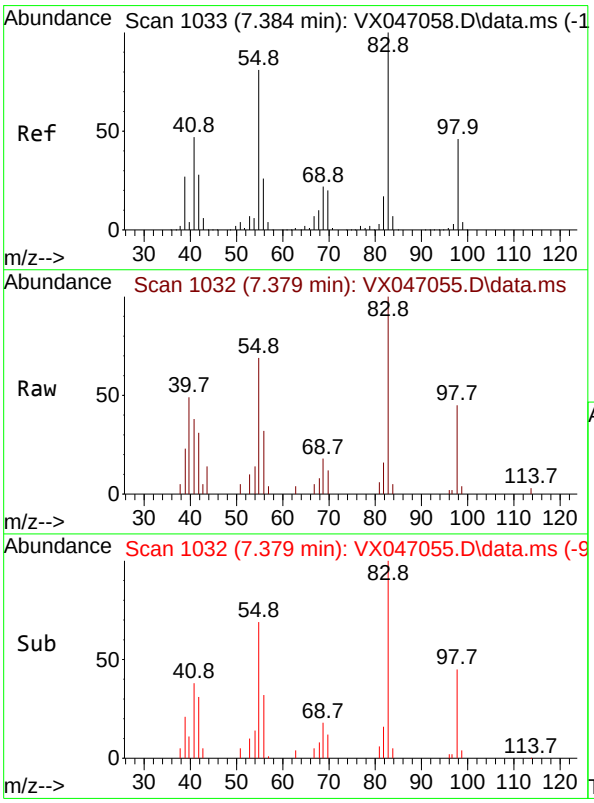
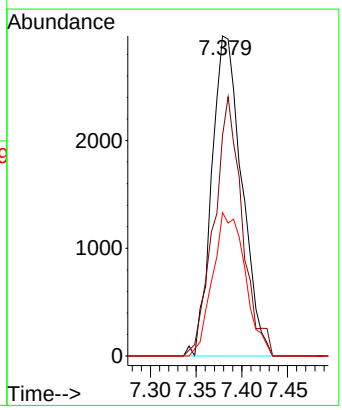
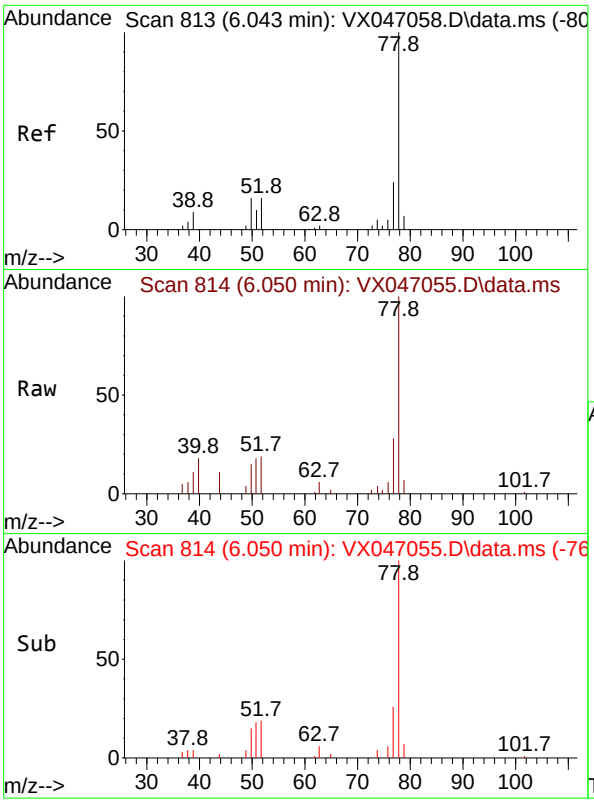


#39
Methylcyclohexane
Concen: 0.888 ug/l
RT: 7.379 min Scan# 1032
Delta R.T. -0.006 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 83 Resp: 6794

Ion	Ratio	Lower	Upper
83	100		
55	68.8	64.5	96.7
98	48.7	36.9	55.3

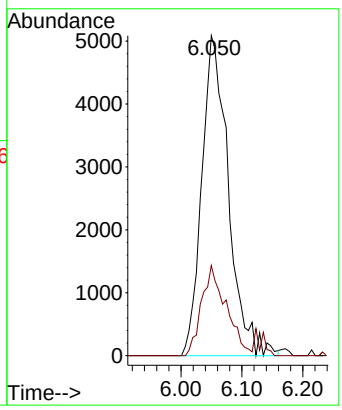




#40
Benzene
Concen: 0.871 ug/l
RT: 6.050 min Scan# 8
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 78 Resp: 1545

Ion	Ratio	Lower	Upper
78	100		
77	28.2	19.0	28.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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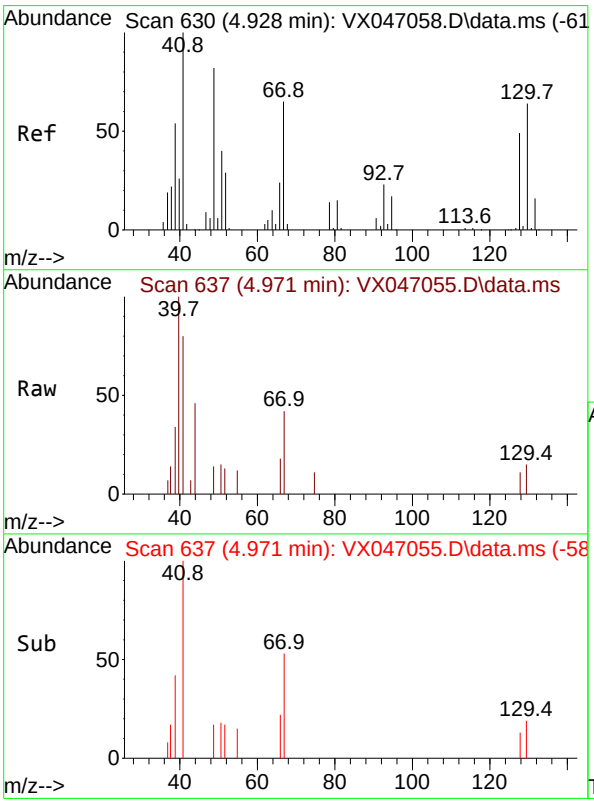
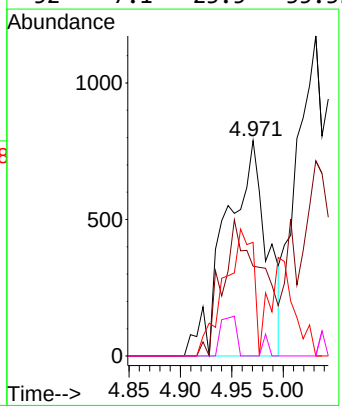
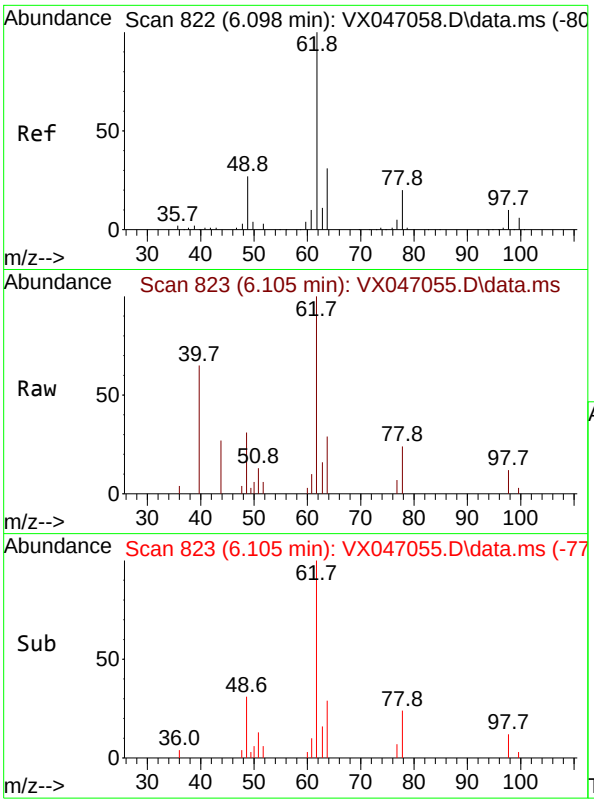


#41
Methacrylonitrile
Concen: 0.734 ug/l
RT: 4.971 min Scan# 637
Delta R.T. 0.043 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 41 Resp: 2166

Ion	Ratio	Lower	Upper
41	100		
39	60.6	44.2	66.2
67	41.7	56.4	84.6#
52	7.1	23.5	35.3#

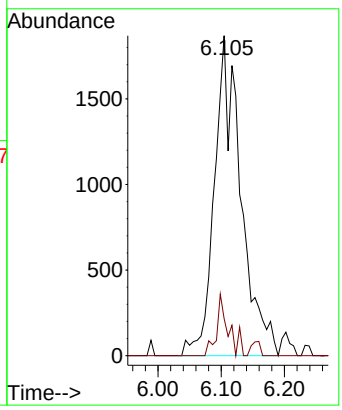




#42
1,2-Dichloroethane
Concen: 0.872 ug/l
RT: 6.105 min Scan# 8
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 62 Resp: 544

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	18.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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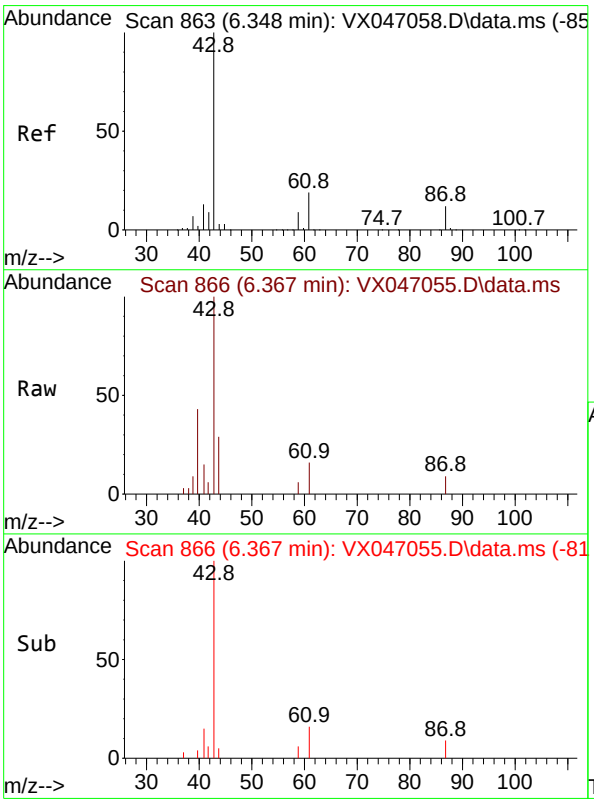
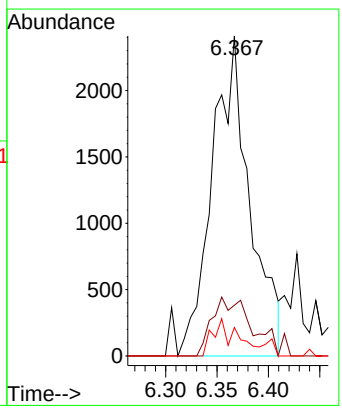
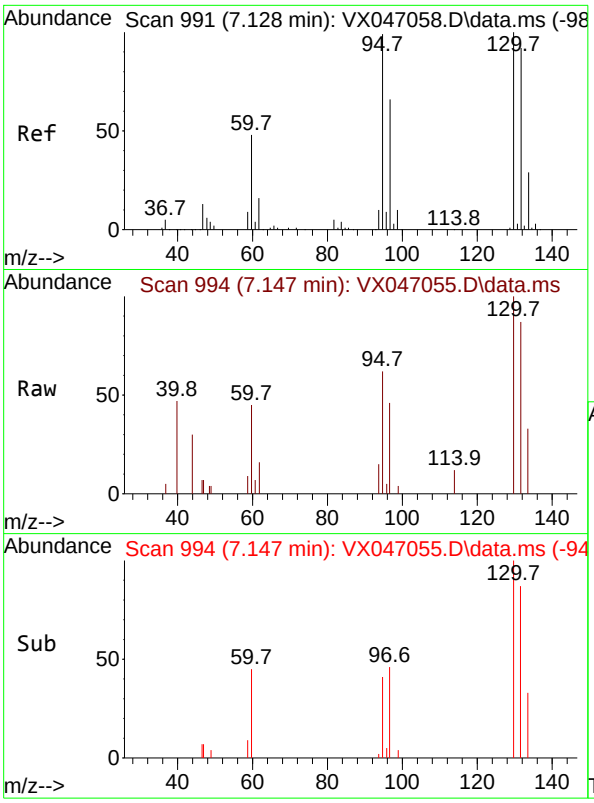


#43
Isopropyl Acetate
Concen: 0.697 ug/l
RT: 6.367 min Scan# 866
Delta R.T. 0.019 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 43 Resp: 6134

Ion	Ratio	Lower	Upper
43	100		
61	20.2	15.1	22.7
87	7.7	9.7	14.5#

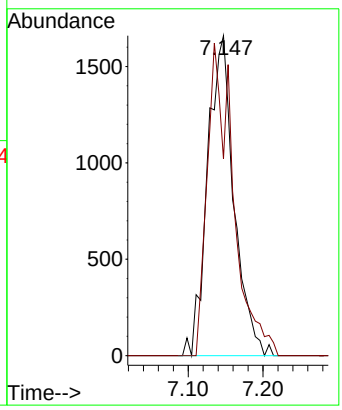




#44
Trichloroethene
Concen: 0.896 ug/l
RT: 7.147 min Scan# 9
Delta R.T. 0.019 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:130 Resp: 407

Ion	Ratio	Lower	Upper
130	100		
95	61.5	0.0	198.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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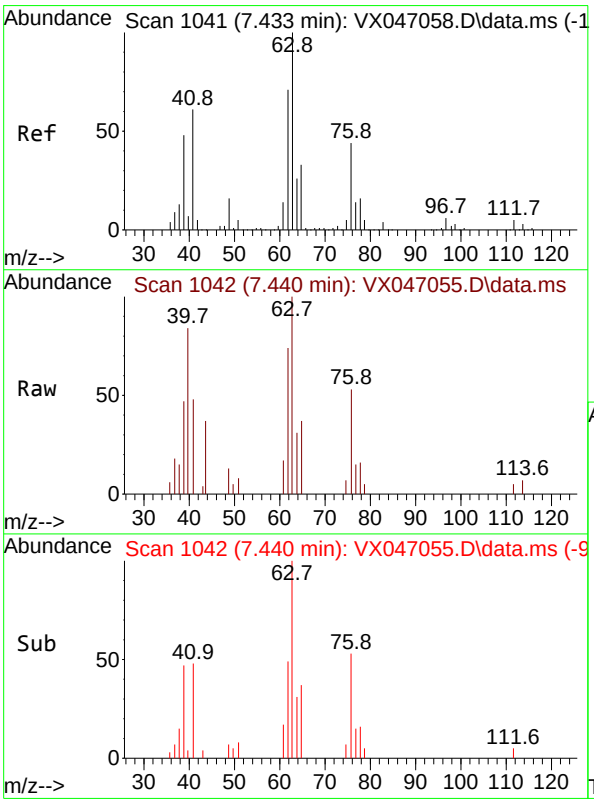
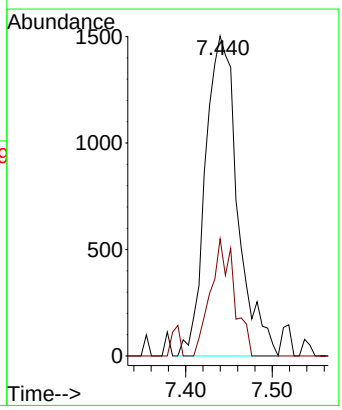
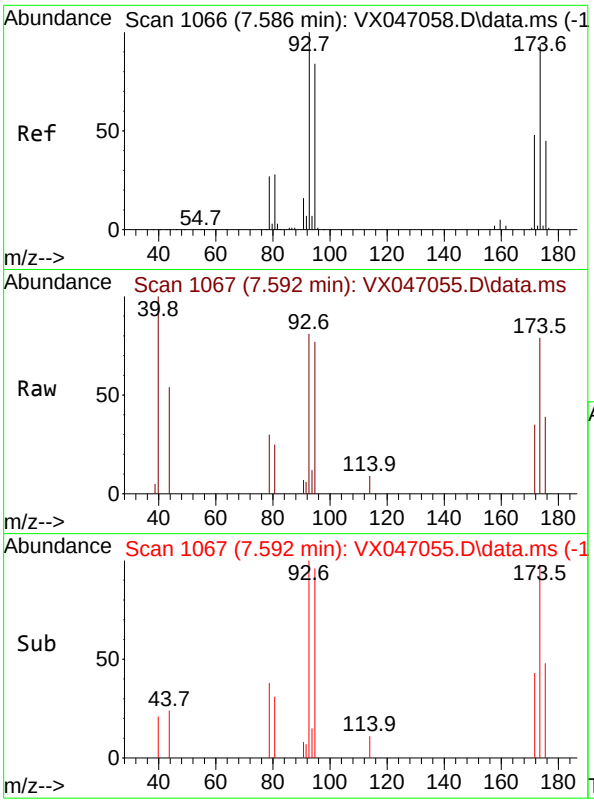


#45
1,2-Dichloropropane
Concen: 0.877 ug/l
RT: 7.440 min Scan# 1042
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 63 Resp: 3895

Ion	Ratio	Lower	Upper
63	100		
65	36.6	26.3	39.5

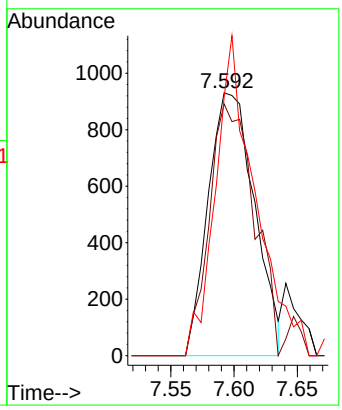




#46
Dibromomethane
Concen: 0.762 ug/l
RT: 7.592 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 93 Resp: 237

Ion	Ratio	Lower	Upper
93	100		
95	94.0	65.9	98.9
174	104.2	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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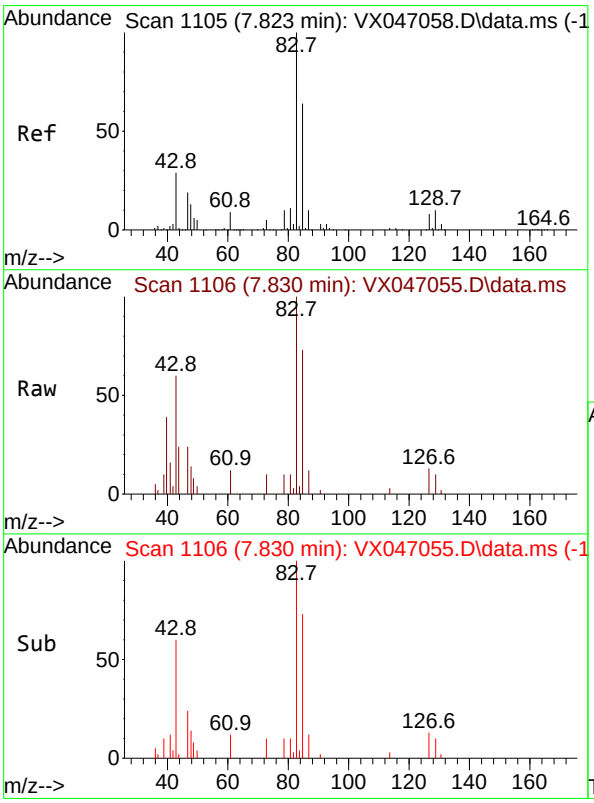
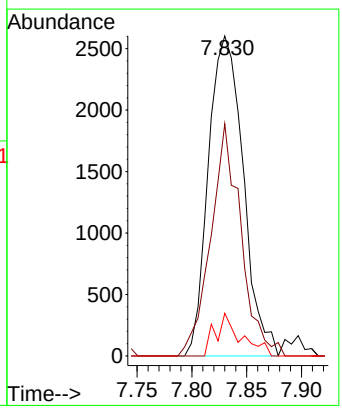
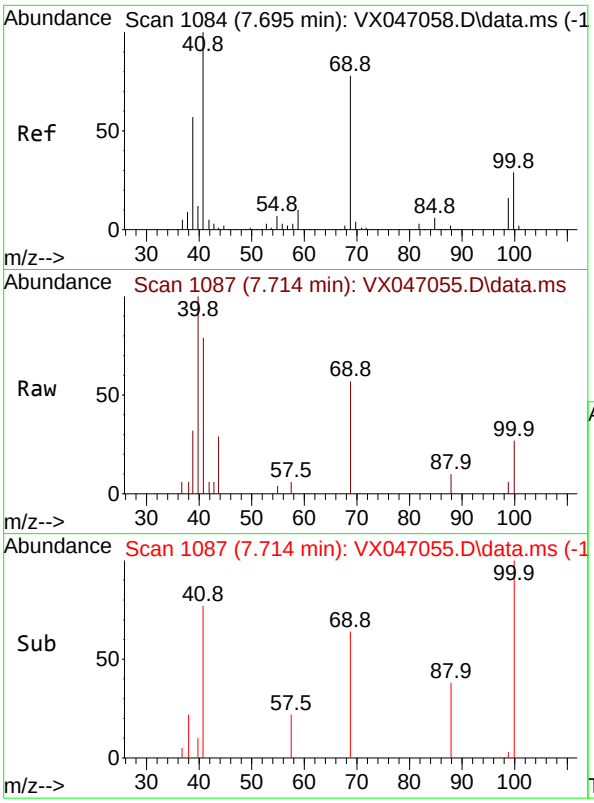


#47
Bromodichloromethane
Concen: 0.867 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 83 Resp: 5749

Ion	Ratio	Lower	Upper
83	100		
85	72.6	49.9	74.9
127	13.4	6.6	10.0#

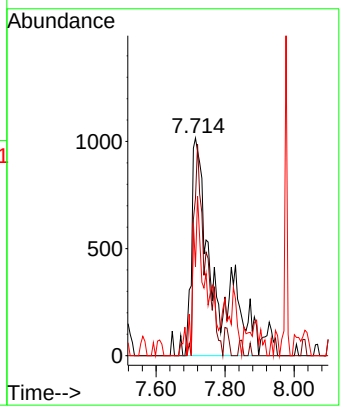




#48
Methyl methacrylate
Concen: 1.014 ug/l m
RT: 7.714 min Scan# 1
Delta R.T. 0.019 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 41 Resp: 486

Ion	Ratio	Lower	Upper
41	100		
69	46.9	62.3	93.5#
39	28.6	44.8	67.2#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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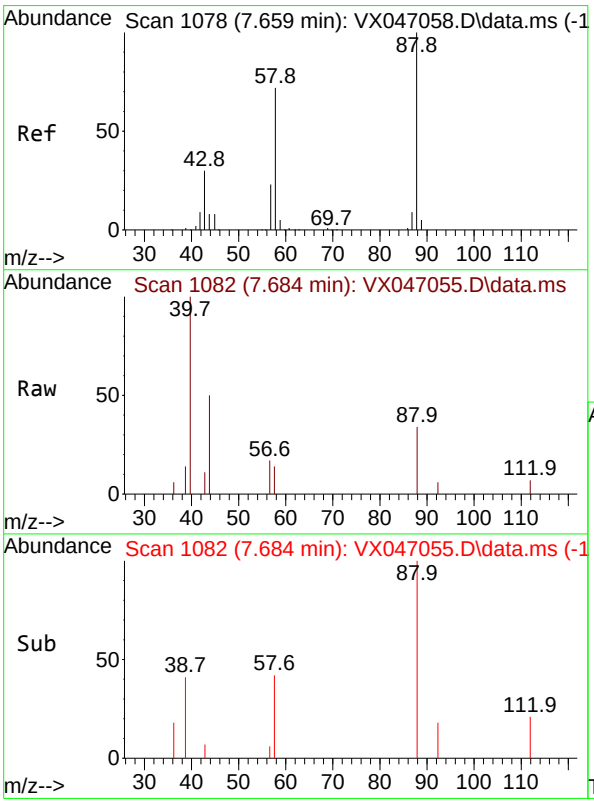
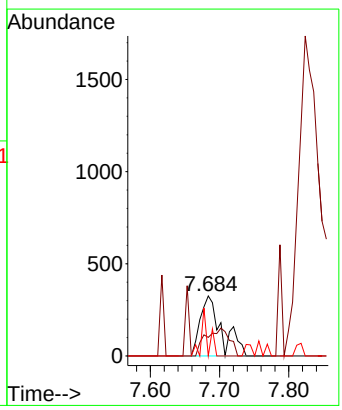
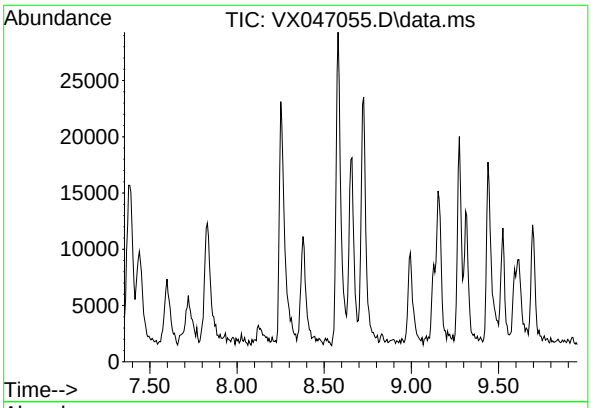


#49
1,4-Dioxane
Concen: 12.834 ug/l m
RT: 7.684 min Scan# 1082
Delta R.T. 0.025 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 88 Resp: 700

Ion	Ratio	Lower	Upper
88	100		
43	0.0	33.6	50.4#
58	24.4	58.8	88.2#





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

Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	66.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :John Carlone 07/22/2025
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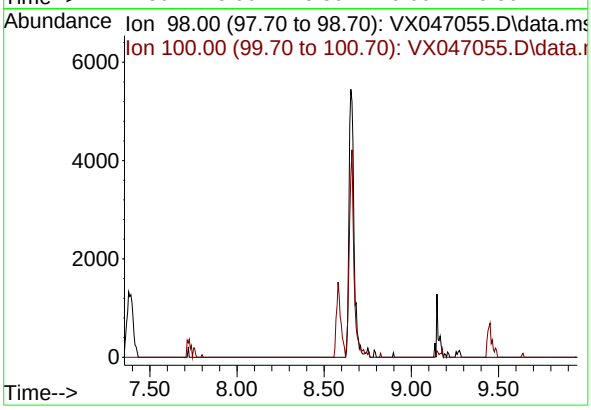
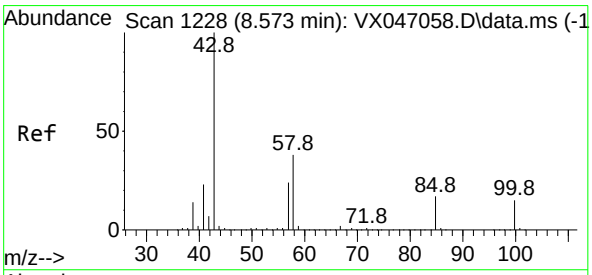
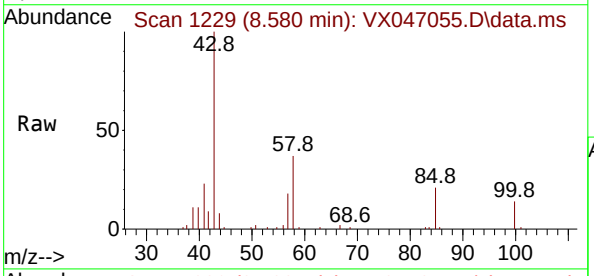


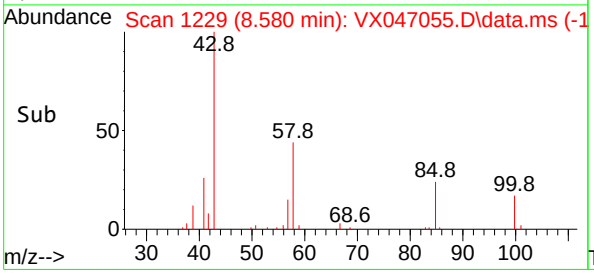


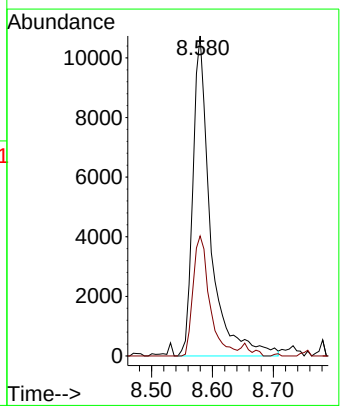
#51
4-Methyl-2-Pentanone
Concen: 4.131 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

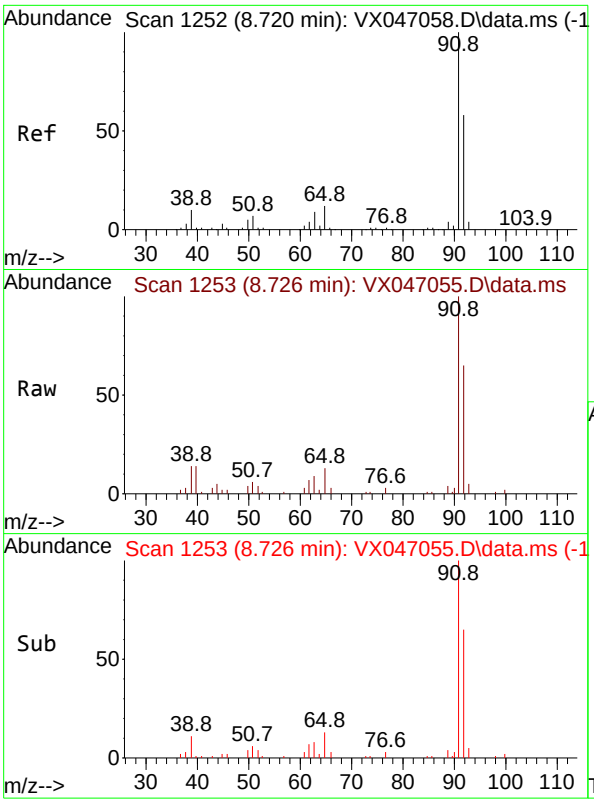
Tgt Ion: 43 Resp: 21616

Ion	Ratio	Lower	Upper
43	100		
58	35.4	30.6	45.8





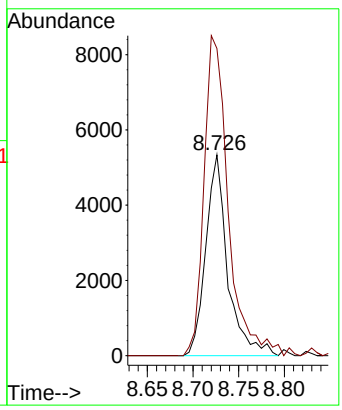




#52
Toluene
Concen: 0.814 ug/l
RT: 8.726 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 92 Resp: 887

Ion	Ratio	Lower	Upper
92	100		
91	177.3	137.9	206.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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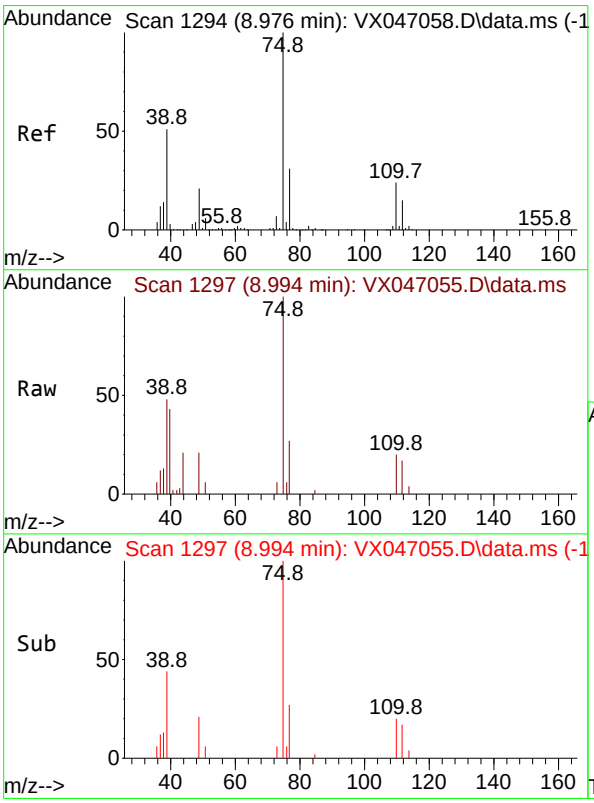
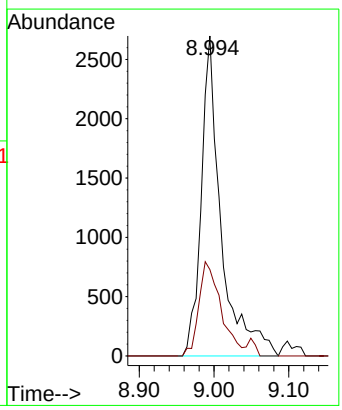
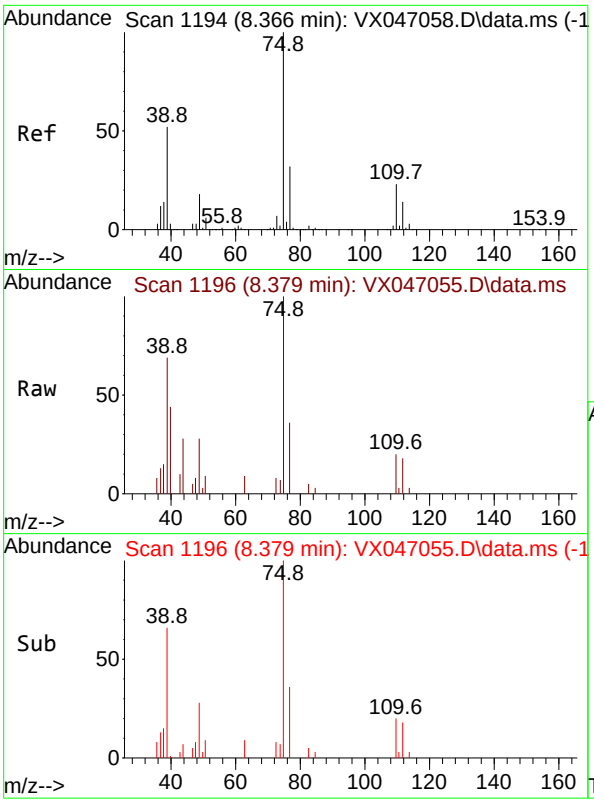


#53
t-1,3-Dichloropropene
Concen: 0.798 ug/l
RT: 8.994 min Scan# 1297
Delta R.T. 0.019 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 75 Resp: 4993

Ion	Ratio	Lower	Upper
75	100		
77	27.0	24.5	36.7

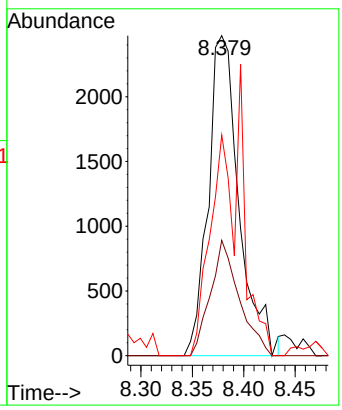




#54
cis-1,3-Dichloropropene
Concen: 0.751 ug/l
RT: 8.379 min Scan# 11
Delta R.T. 0.013 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 75 Resp: 514

Ion	Ratio	Lower	Upper
75	100		
77	36.0	25.4	38.0
39	25.1	41.8	62.6#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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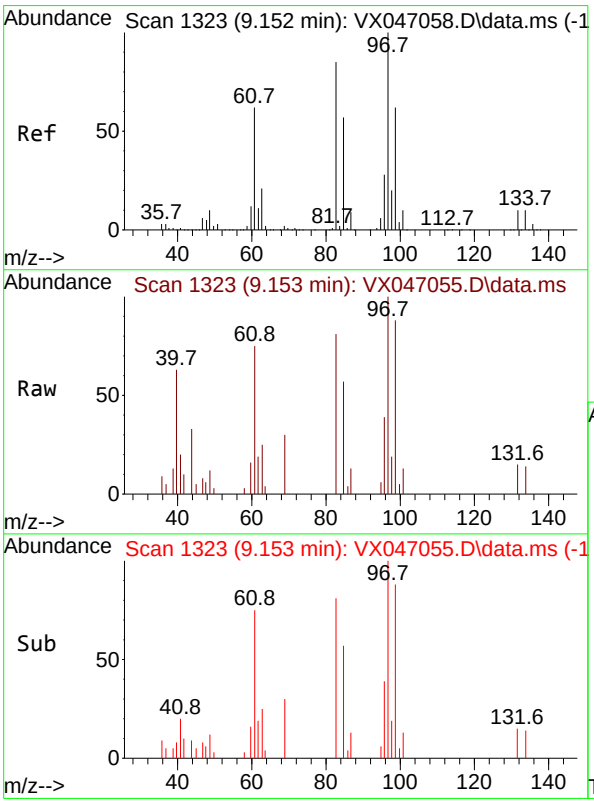
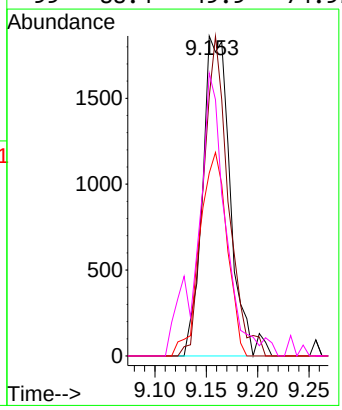
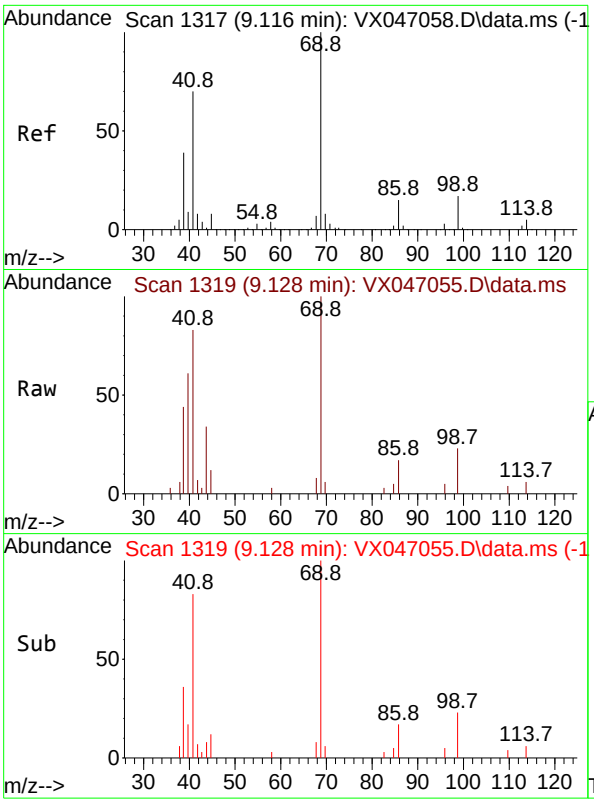


#55
1,1,2-Trichloroethane
Concen: 0.853 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 97 Resp: 3490

Ion	Ratio	Lower	Upper
97	100		
83	81.0	68.0	102.0
85	57.2	45.2	67.8
99	88.4	49.9	74.9#

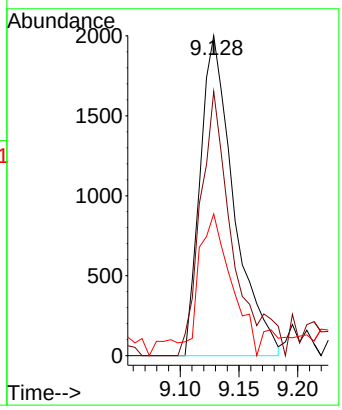




#56
Ethyl methacrylate
Concen: 0.657 ug/l
RT: 9.128 min Scan# 1
Delta R.T. 0.013 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 69 Resp: 397

Ion	Ratio	Lower	Upper
69	100		
41	78.7	56.1	84.1
39	42.5	31.1	46.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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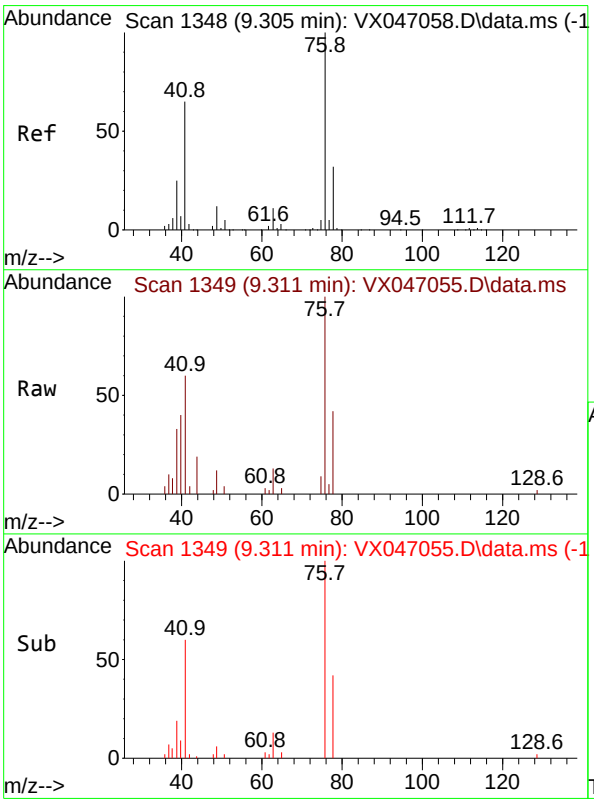
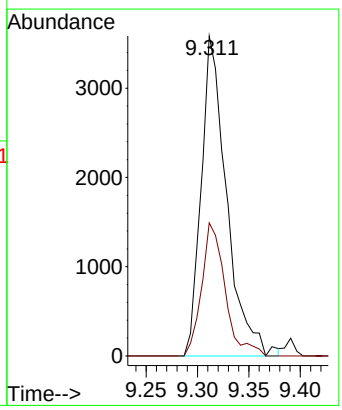
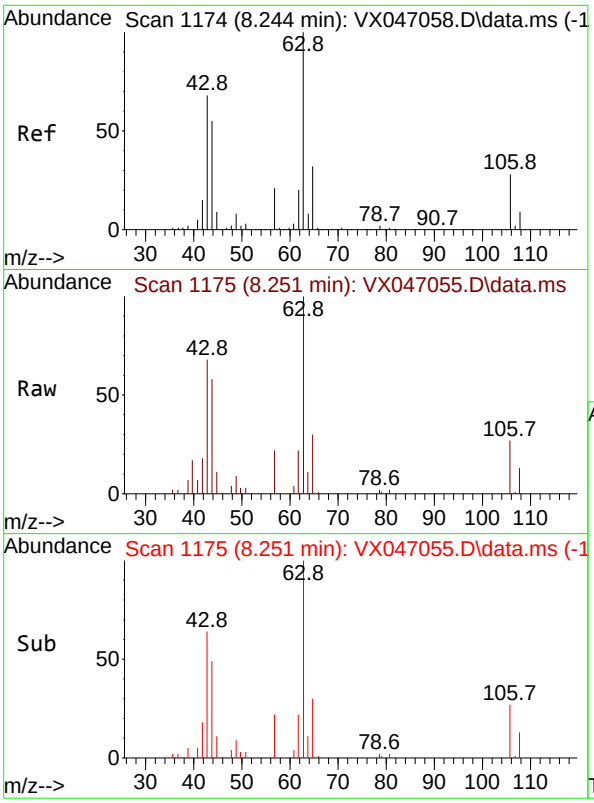


#57
1,3-Dichloropropane
Concen: 0.868 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 76 Resp: 6170

Ion	Ratio	Lower	Upper
76	100		
78	38.4	25.5	38.3#





#58
2-Chloroethyl Vinyl ether
Concen: 3.268 ug/l
RT: 8.251 min Scan# 11
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 63 Resp: 1101

Ion	Ratio	Lower	Upper
63	100		
106	27.0	22.2	33.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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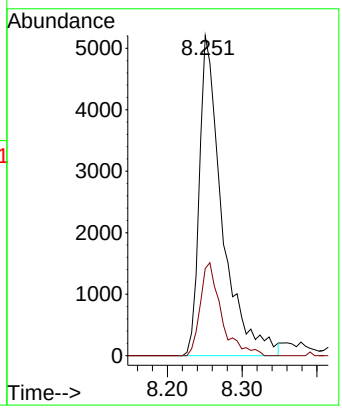
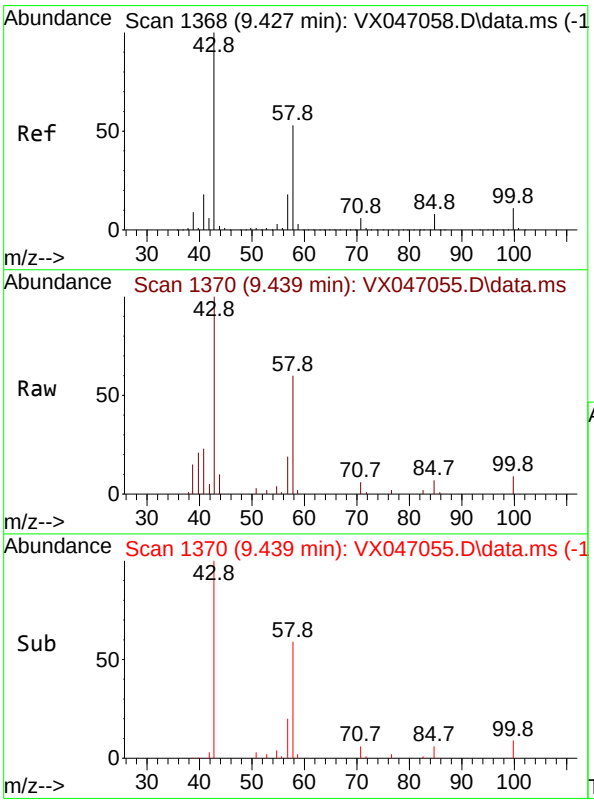
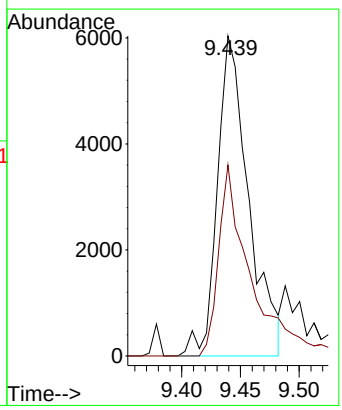


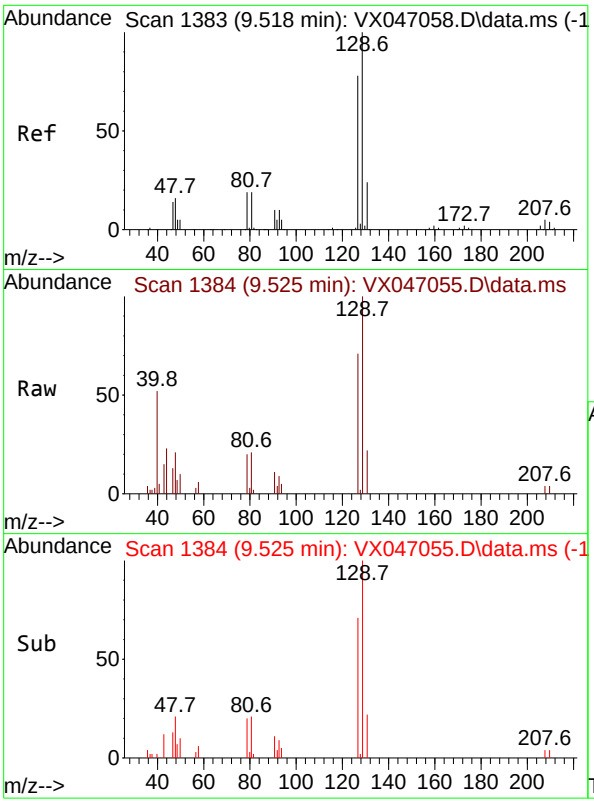


#59
2-Hexanone
Concen: 3.240 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.013 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 43 Resp: 11200

Ion	Ratio	Lower	Upper
43	100		
58	61.9	26.5	79.5

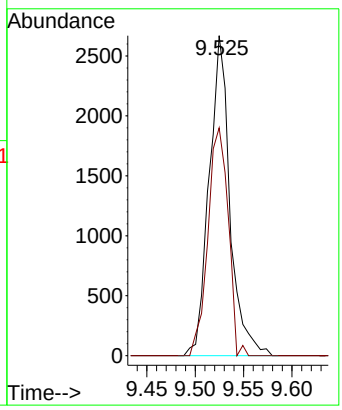




#60
Dibromochloromethane
Concen: 0.834 ug/l
RT: 9.525 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:129 Resp: 399

Ion	Ratio	Lower	Upper
129	100		
127	69.2	38.6	115.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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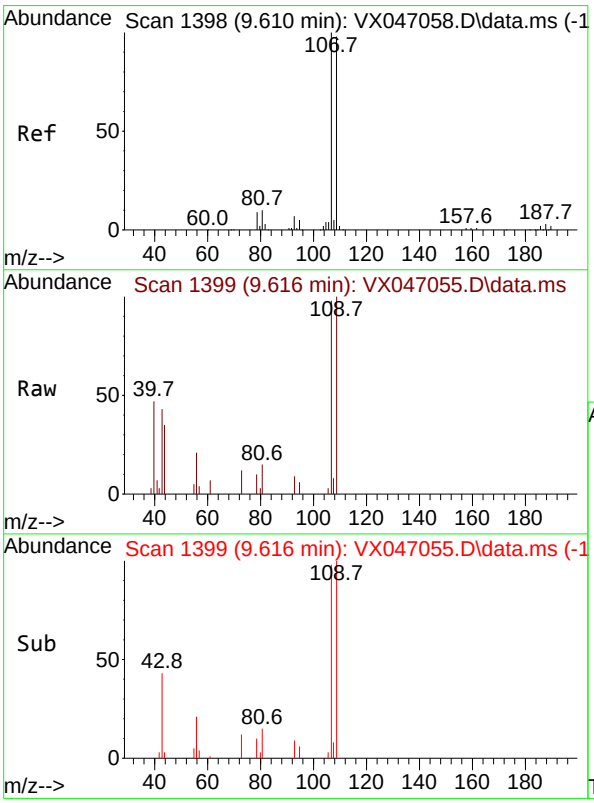
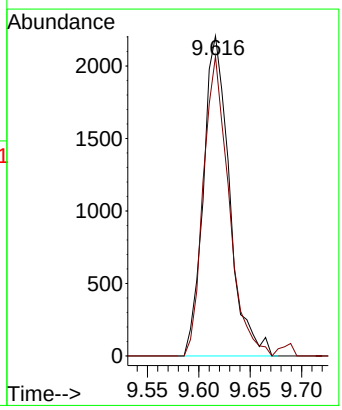
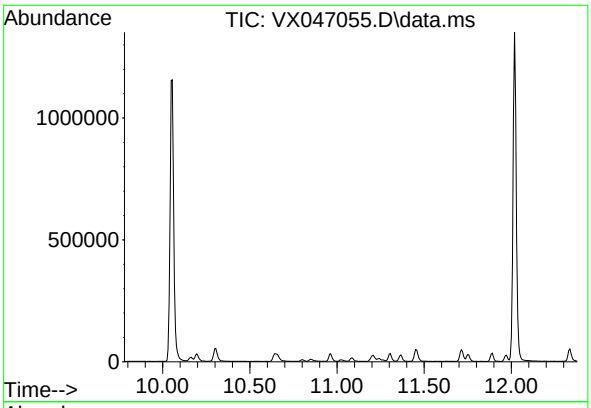


#61
1,2-Dibromoethane
Concen: 0.909 ug/l
RT: 9.616 min Scan# 1399
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:107 Resp: 3885

Ion	Ratio	Lower	Upper
107	100		
109	91.7	74.6	112.0





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

Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 95

Sig	Exp Ratio
95	100
174	72.3
176	69.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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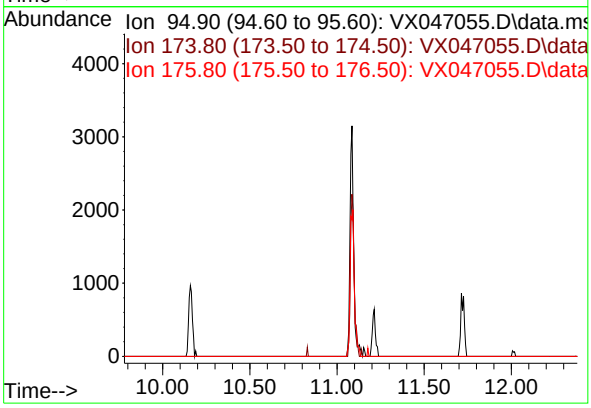
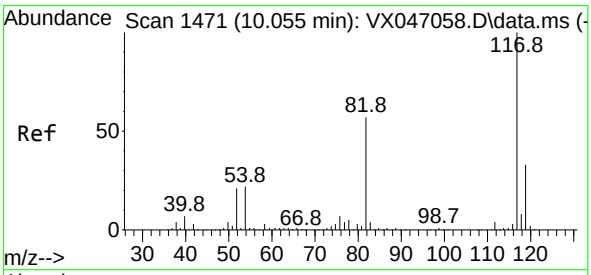
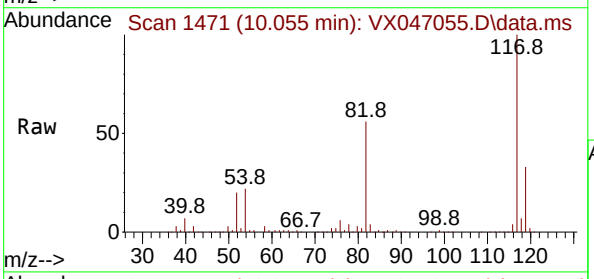


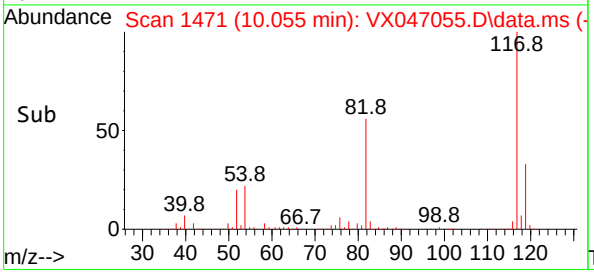


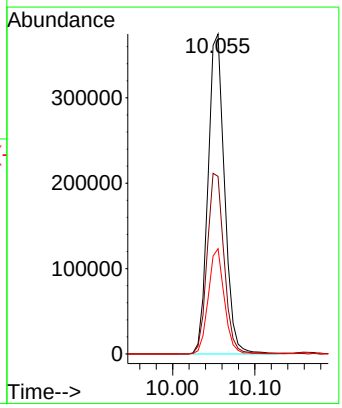
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

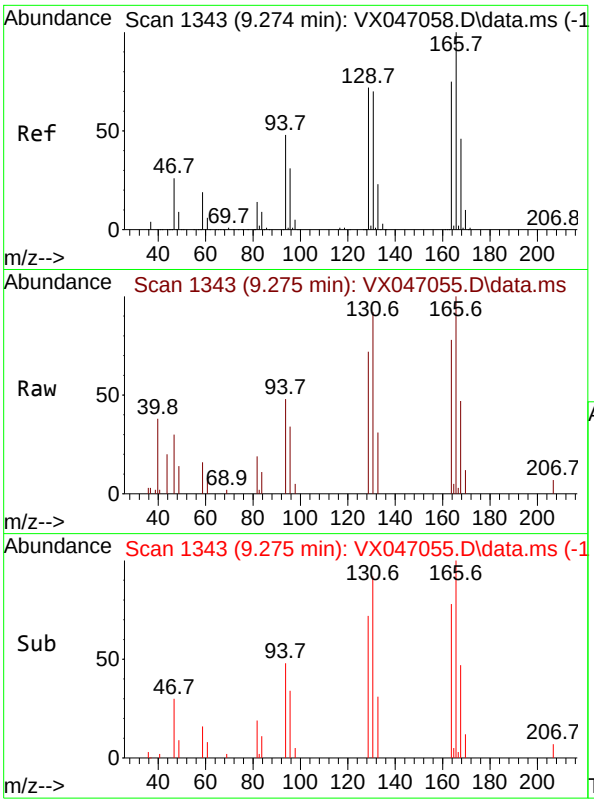
Tgt Ion:117 Resp: 522701

Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.4	68.2
119	32.9	26.1	39.1





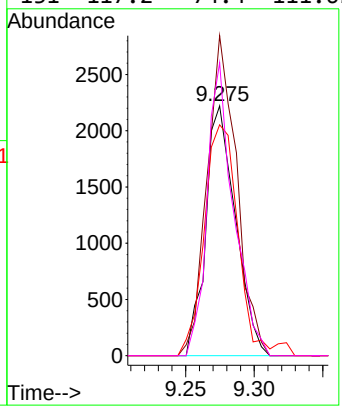




#64
Tetrachloroethene
Concen: 0.892 ug/l
RT: 9.275 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:164 Resp: 336

Ion	Ratio	Lower	Upper
164	100		
166	128.1	106.2	159.4
129	92.4	76.6	114.8
131	117.2	74.4	111.6#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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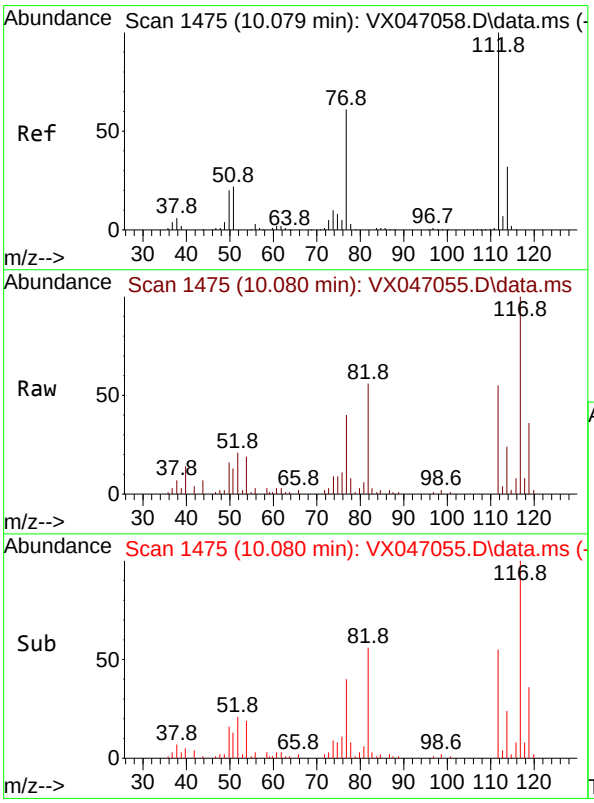
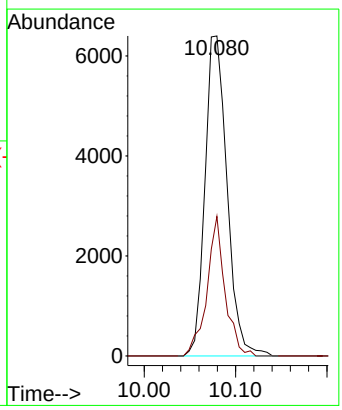
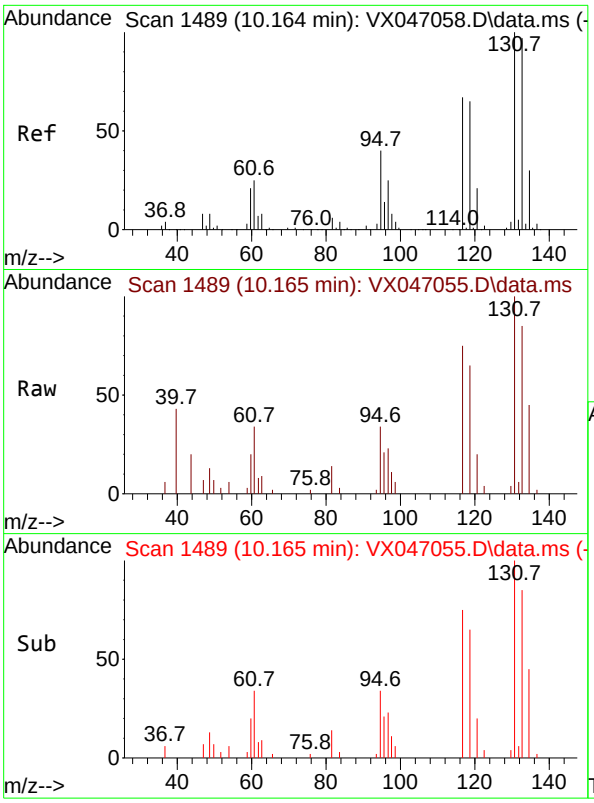


#65
Chlorobenzene
Concen: 0.878 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:112 Resp: 10754

Ion	Ratio	Lower	Upper
112	100		
114	43.6	25.8	38.6#

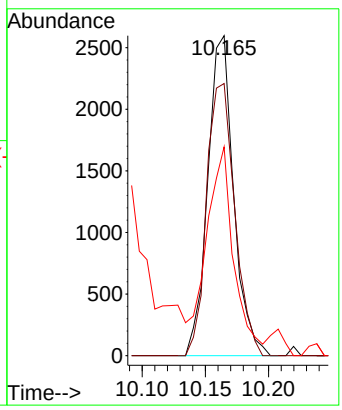




#66
1,1,1,2-Tetrachloroethane
Concen: 0.897 ug/l
RT: 10.165 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:131 Resp: 369

Ion	Ratio	Lower	Upper
131	100		
133	92.3	48.4	145.3
119	0.0	32.4	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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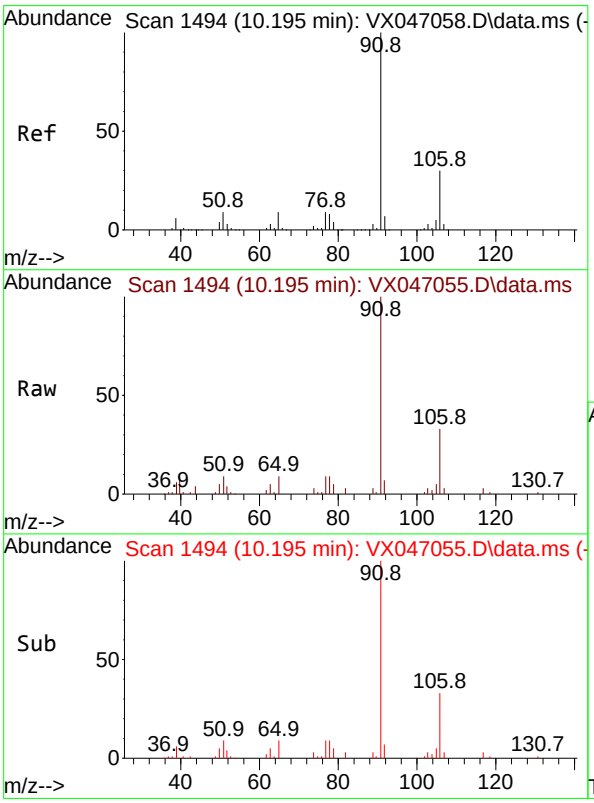
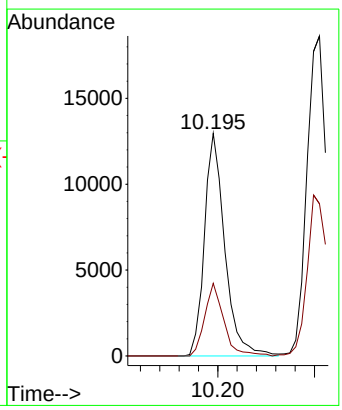
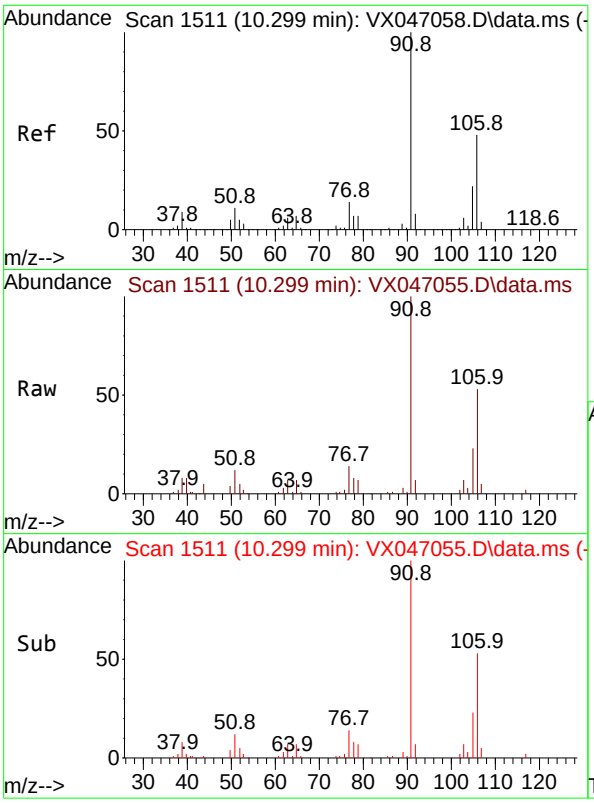


#67
Ethyl Benzene
Concen: 0.886 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 91 Resp: 18959

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.2	36.4





#68
m/p-Xylenes
Concen: 1.809 ug/l
RT: 10.299 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:106 Resp: 1449

Ion	Ratio	Lower	Upper
106	100		
91	200.4	167.4	251.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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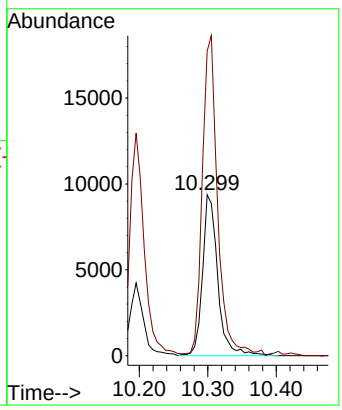
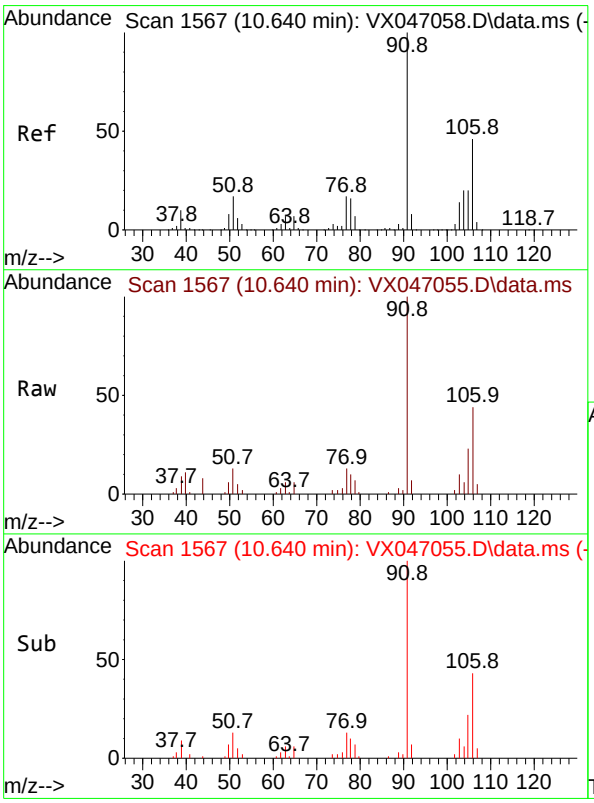
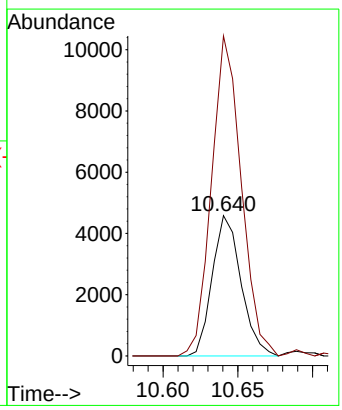


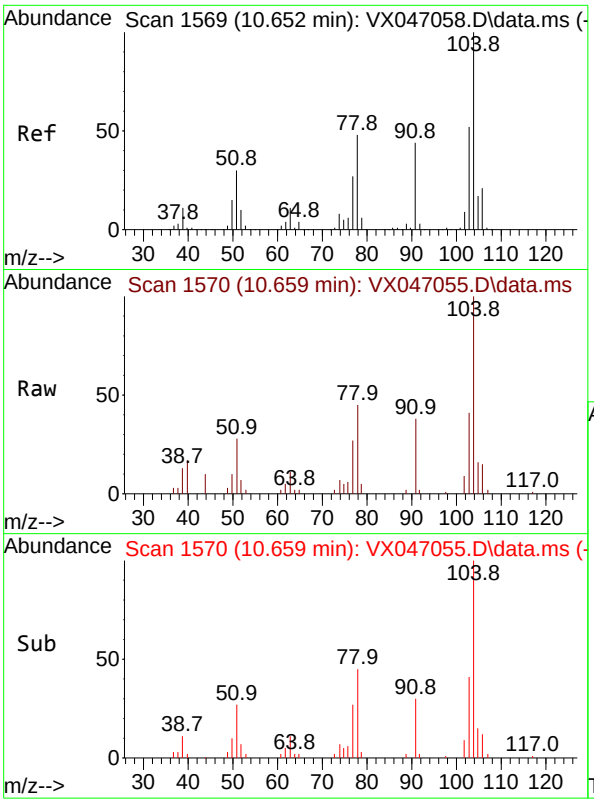


#69
o-Xylene
Concen: 0.804 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:106 Resp: 6125

Ion	Ratio	Lower	Upper
106	100		
91	235.9	110.3	331.0

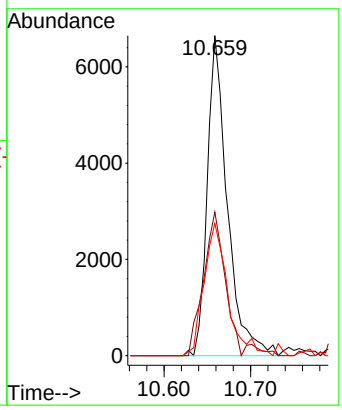




#70
Styrene
Concen: 0.819 ug/l
RT: 10.659 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:104 Resp: 1070

Ion	Ratio	Lower	Upper
104	100		
78	48.6	42.0	63.0
103	49.0	43.8	65.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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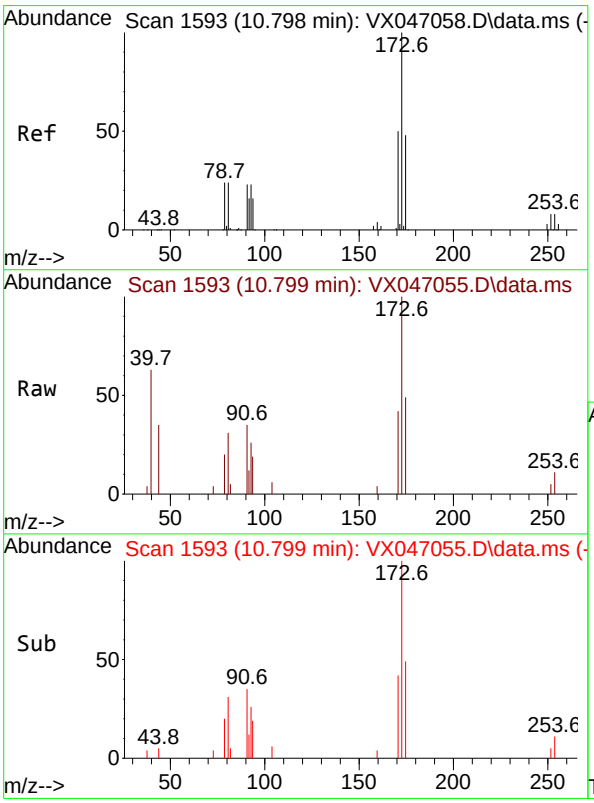
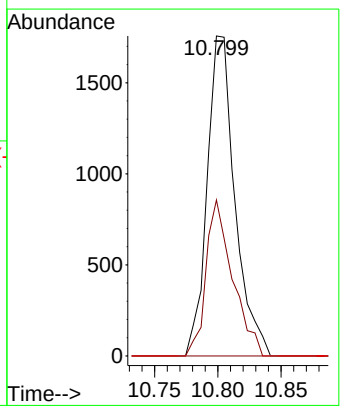
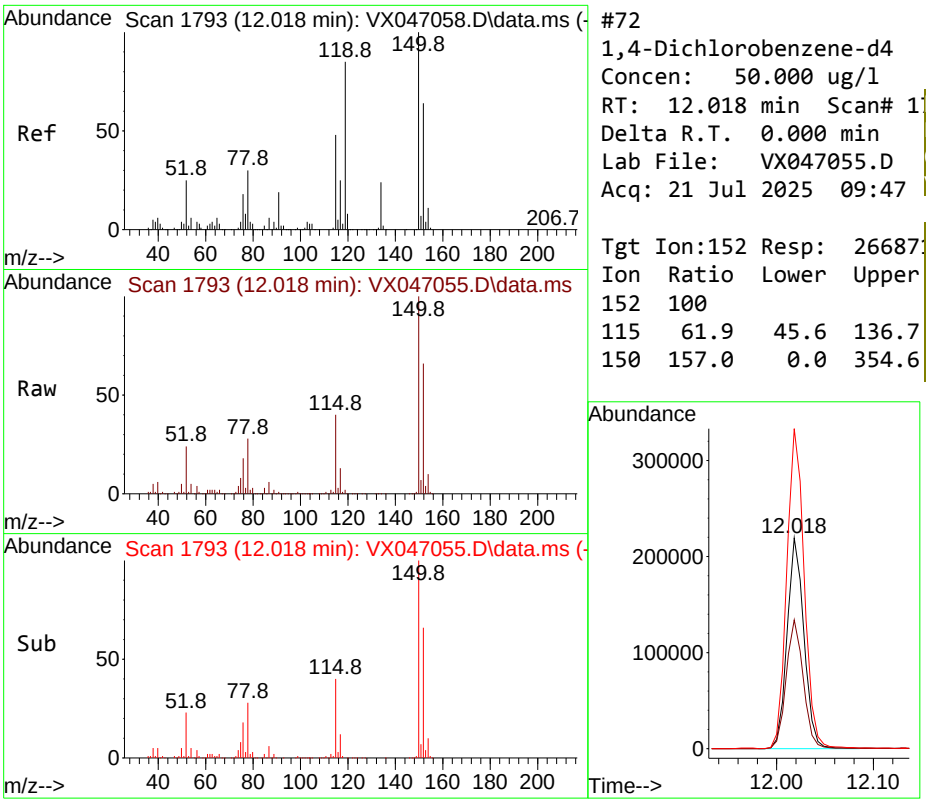


#71
Bromoform
Concen: 0.858 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:173 Resp: 2687

Ion	Ratio	Lower	Upper
173	100		
175	46.5	24.2	72.6
254	0.0	0.1	0.1#





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:152 Resp: 26687

Ion	Ratio	Lower	Upper
152	100		
115	61.9	45.6	136.7
150	157.0	0.0	354.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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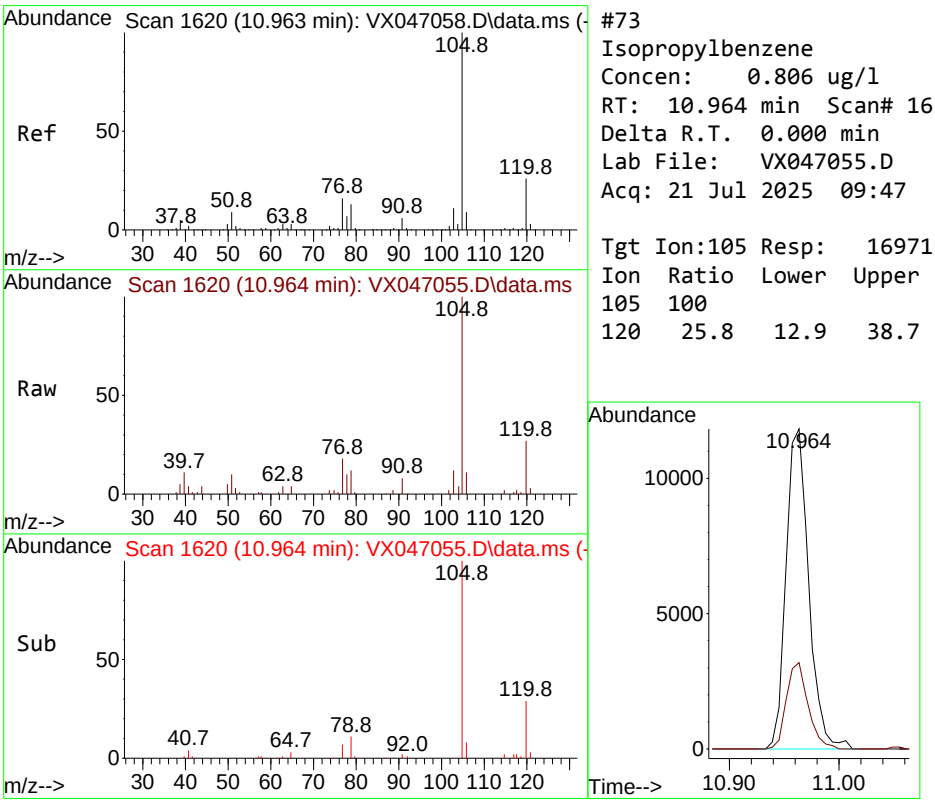
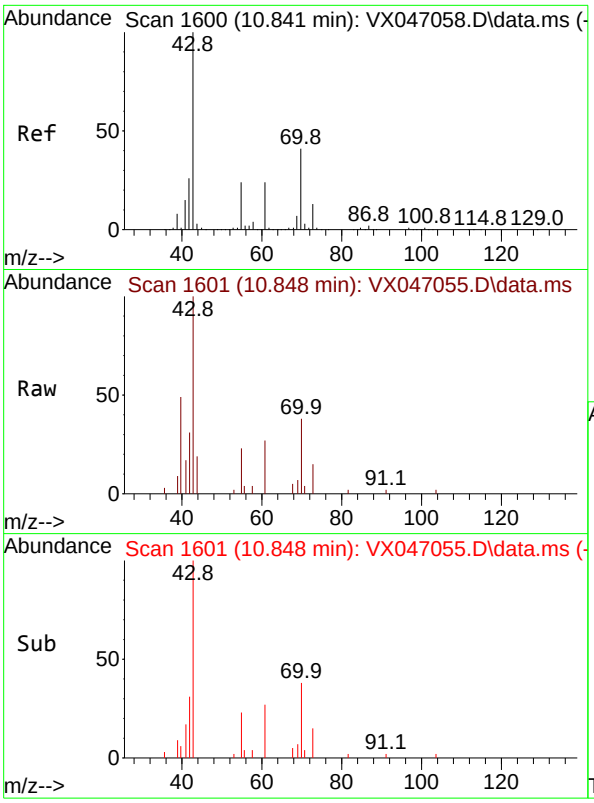


#73
Isopropylbenzene
Concen: 0.806 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:105 Resp: 16971

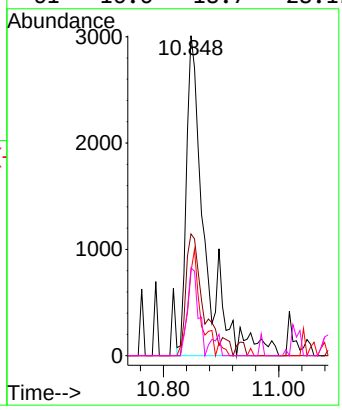
Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.7



#74
N-amyl acetate
Concen: 0.801 ug/l m
RT: 10.848 min Scan# 1(
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 43 Resp: 672(

Ion	Ratio	Lower	Upper
43	100		
70	35.9	32.3	48.5
55	23.1	18.9	28.3
61	16.6	18.7	28.1#



Instrument :
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ClientSampleId :
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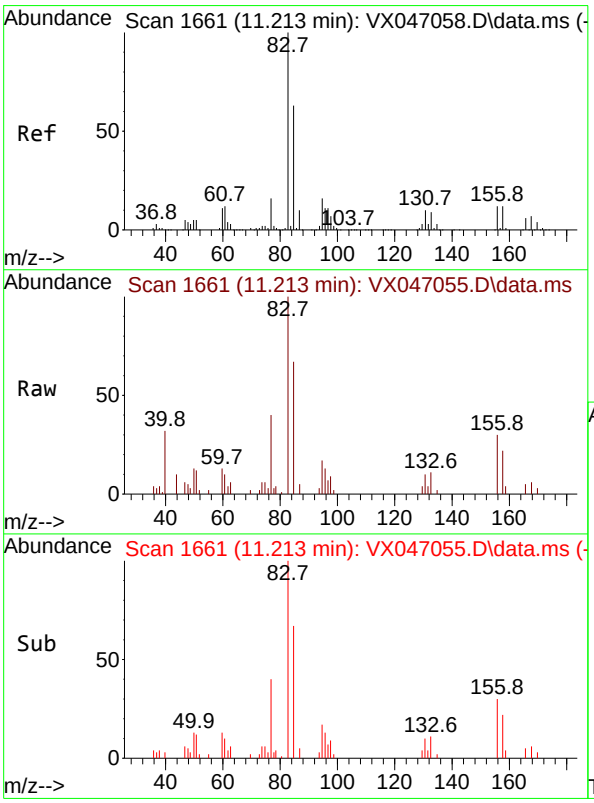
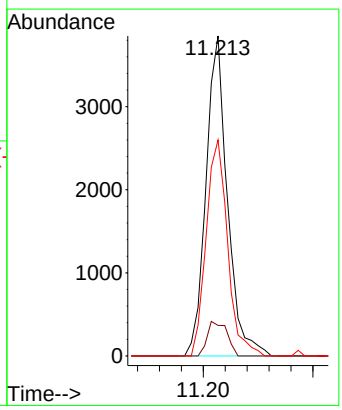
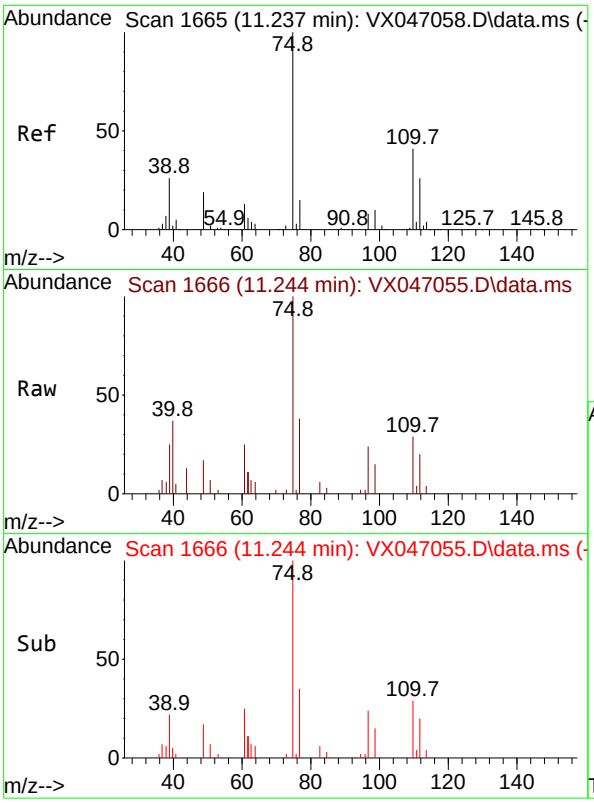


#75
1,1,2,2-Tetrachloroethane
Concen: 0.868 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 83 Resp: 5223

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	67.6	32.0	96.2

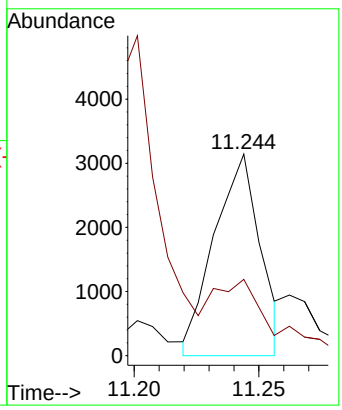




#76
1,2,3-Trichloropropane
Concen: 0.814 ug/l m
RT: 11.244 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 75 Resp: 401

Ion	Ratio	Lower	Upper
75	100		
77	49.1	21.6	65.0



Instrument :
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ClientSampleId :
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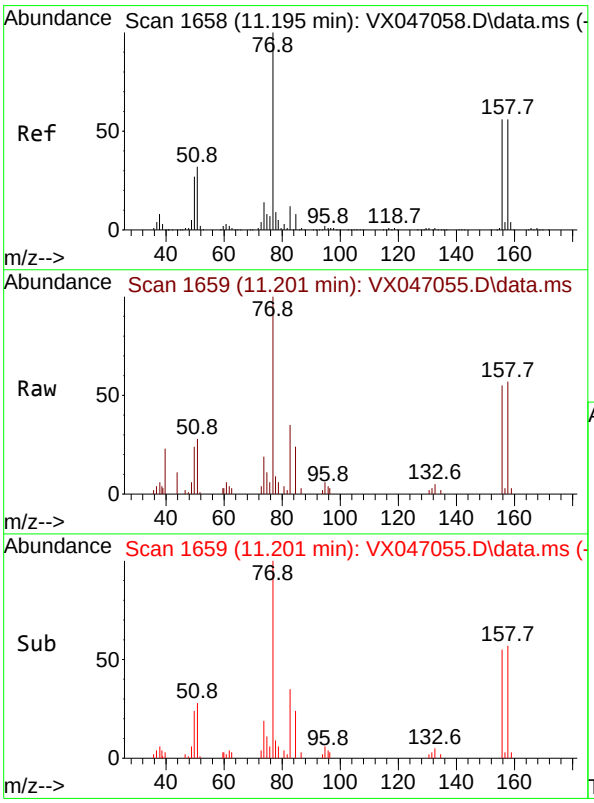
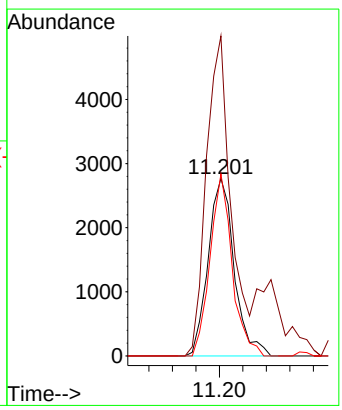
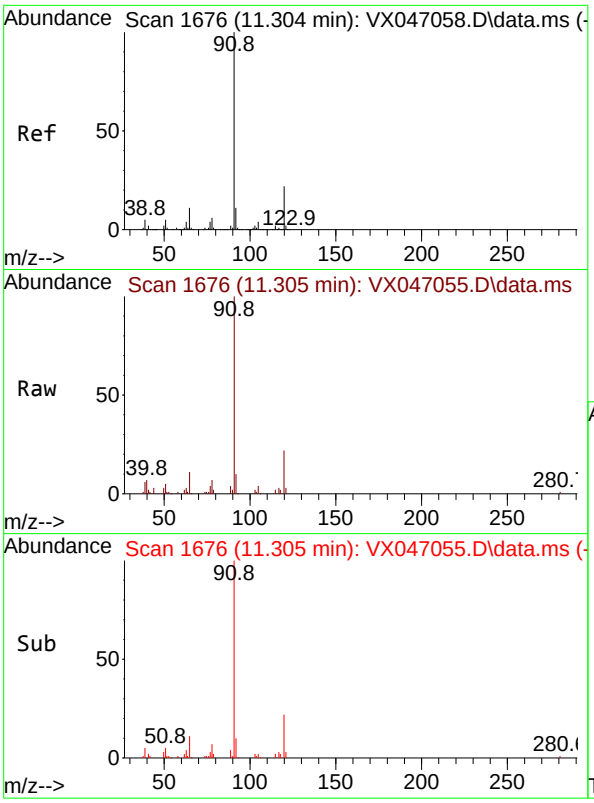


#77
Bromobenzene
Concen: 0.842 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:156 Resp: 4251

Ion	Ratio	Lower	Upper
156	100		
77	168.9	87.3	261.9
158	87.1	48.9	146.6

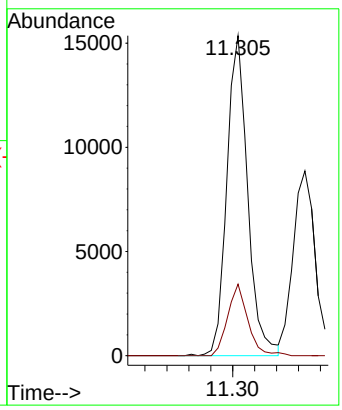




#78
n-propylbenzene
Concen: 0.805 ug/l
RT: 11.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 91 Resp: 2025

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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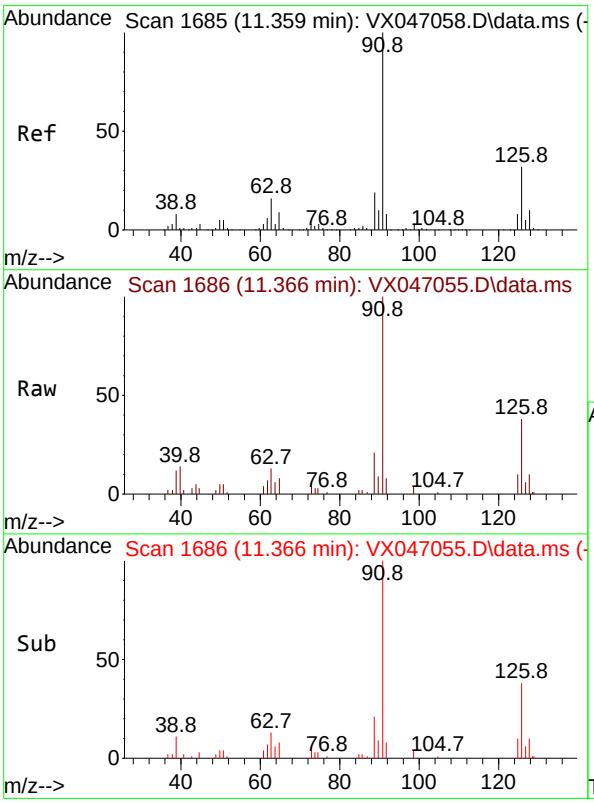
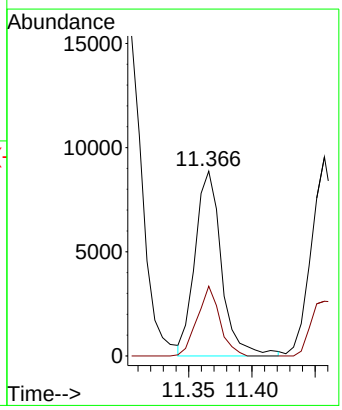
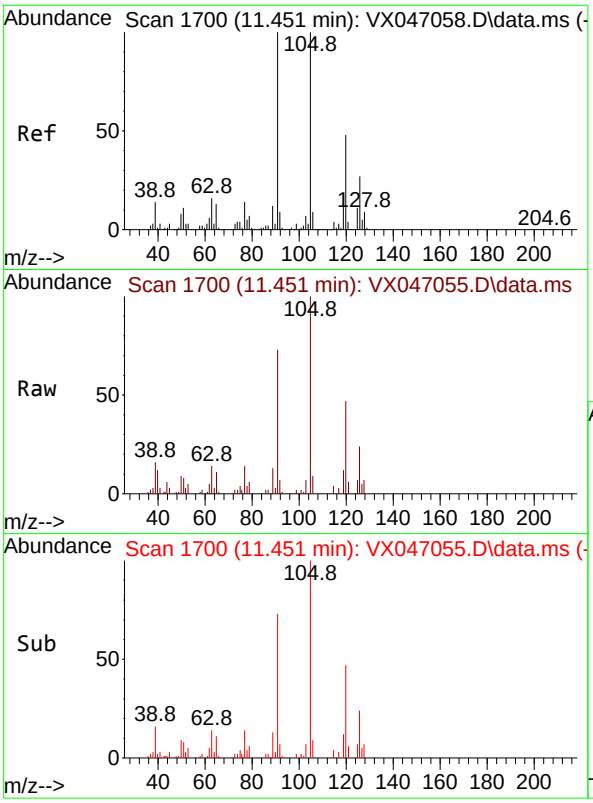


#79
2-Chlorotoluene
Concen: 0.862 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 91 Resp: 12959

Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.4	49.4

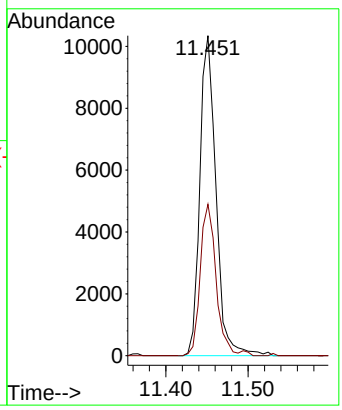




#80
1,3,5-Trimethylbenzene
Concen: 0.810 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:105 Resp: 1408

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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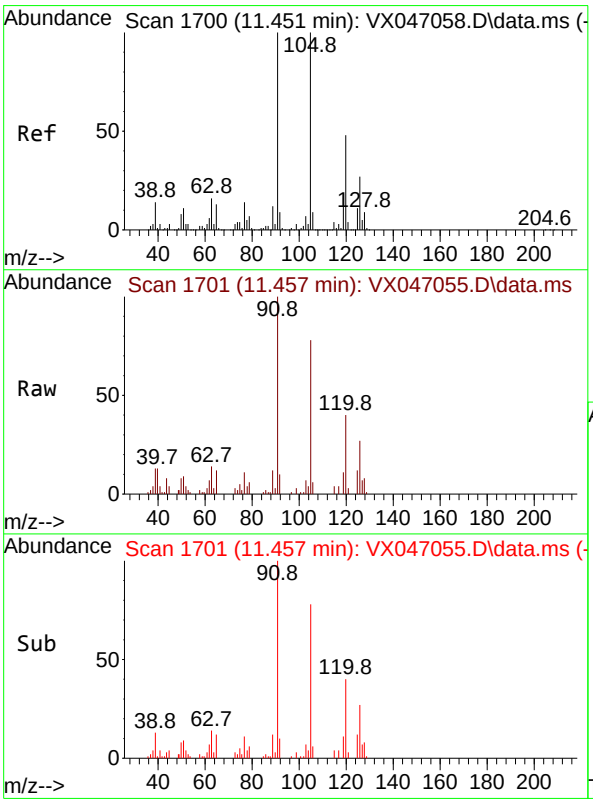
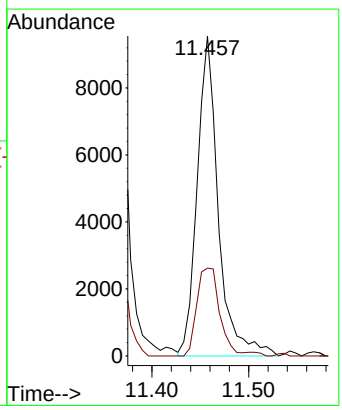
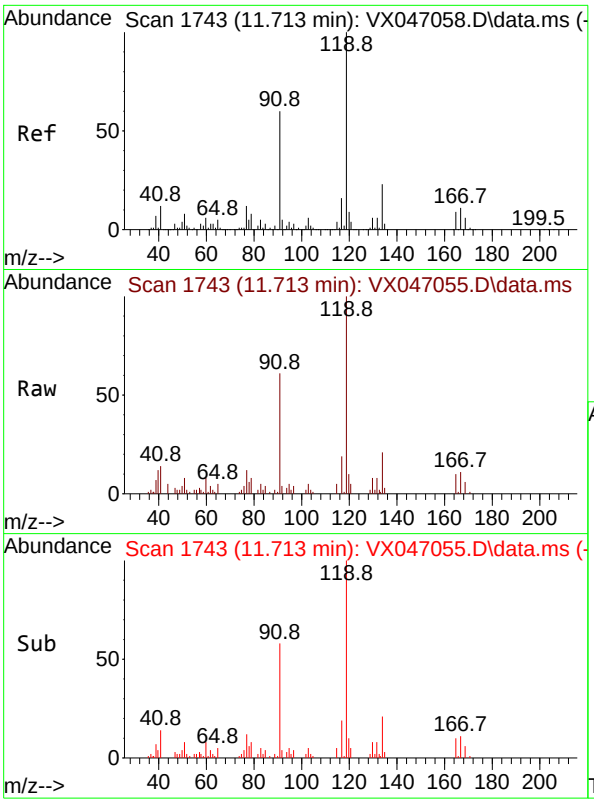


#82
4-Chlorotoluene
Concen: 0.827 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 91 Resp: 14521

Ion	Ratio	Lower	Upper
91	100		
126	29.6	14.1	42.3

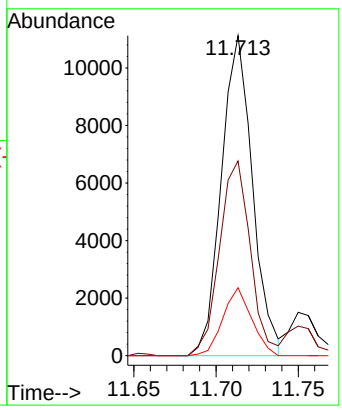




#83
tert-Butylbenzene
Concen: 0.839 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:119 Resp: 1465

Ion	Ratio	Lower	Upper
119	100		
91	60.5	29.6	88.8
134	19.6	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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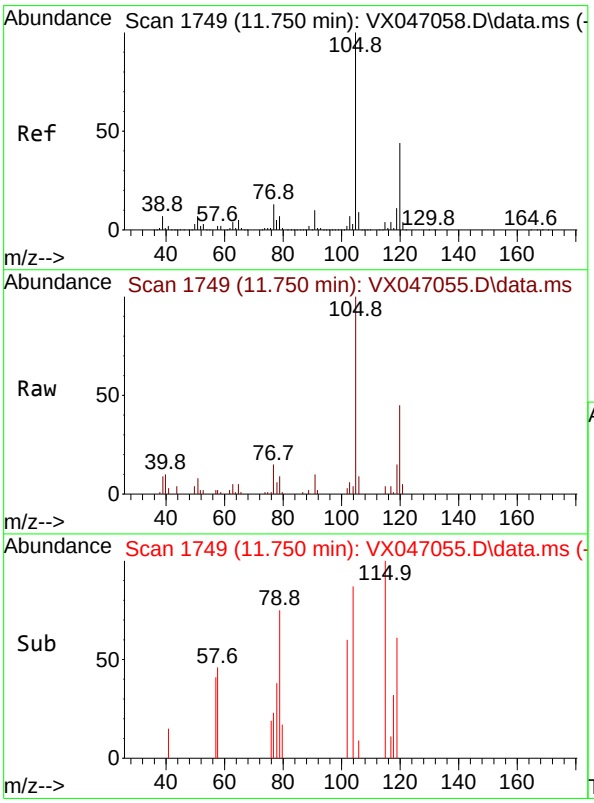
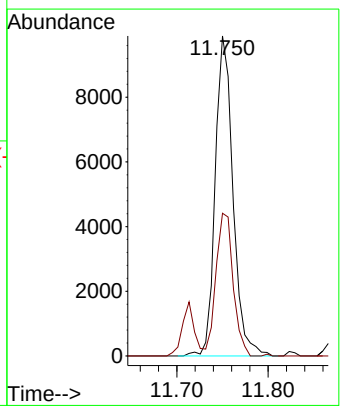
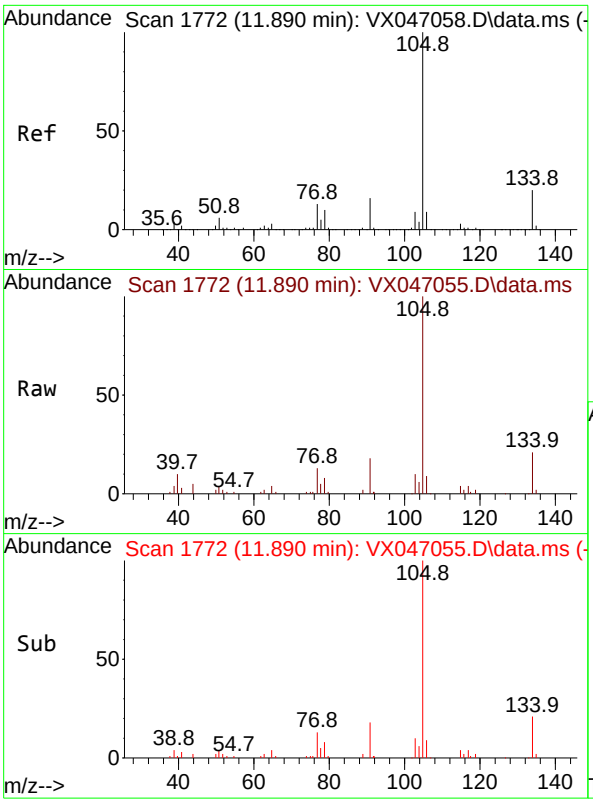


#84
1,2,4-Trimethylbenzene
Concen: 0.770 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:105 Resp: 13354

Ion	Ratio	Lower	Upper
105	100		
120	43.0	22.0	66.0

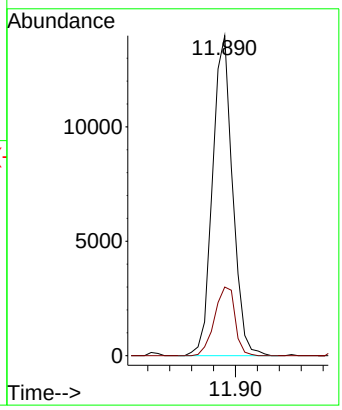




#85
sec-Butylbenzene
Concen: 0.814 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:105 Resp: 1776

Ion	Ratio	Lower	Upper
105	100		
134	21.9	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
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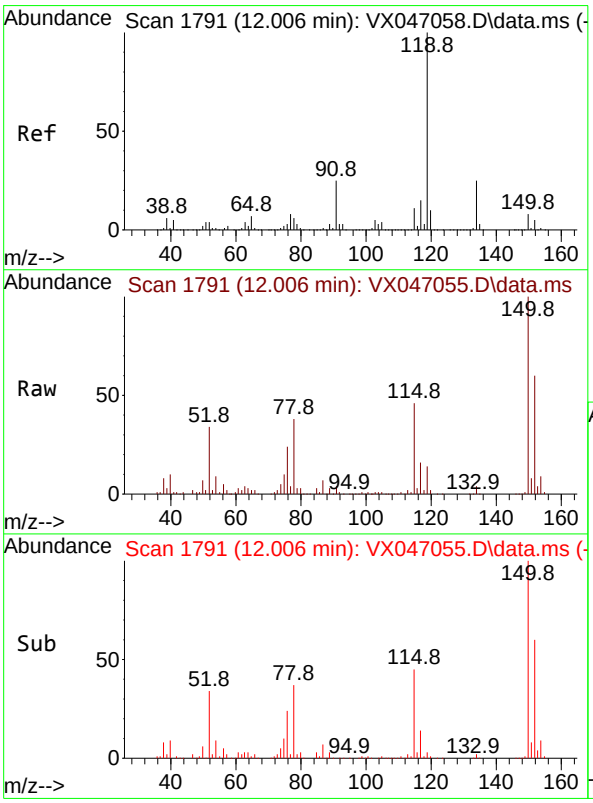
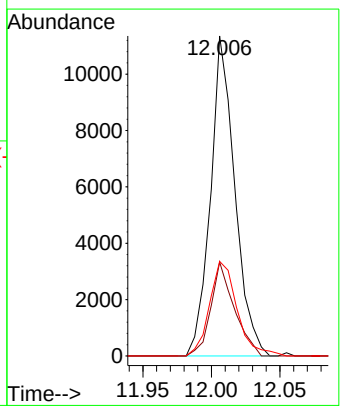
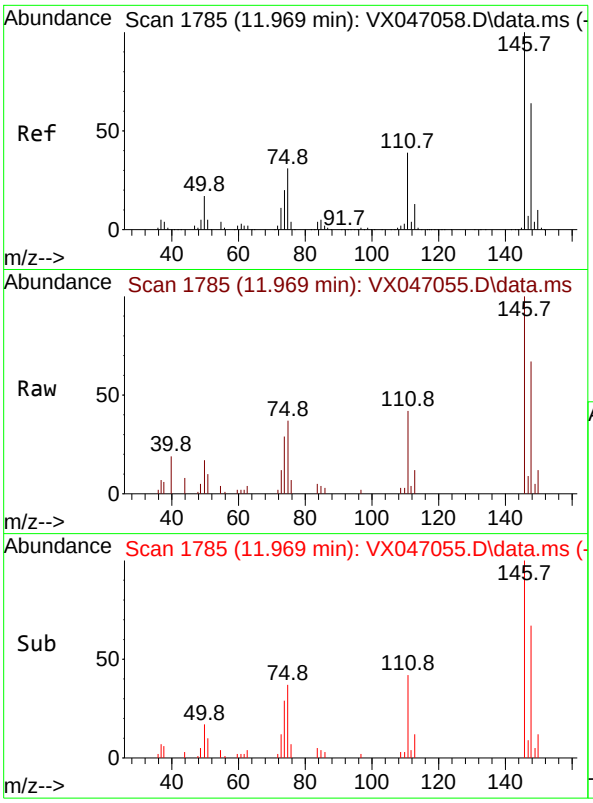


#86
p-Isopropyltoluene
Concen: 0.775 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:119 Resp: 14016

Ion	Ratio	Lower	Upper
119	100		
134	28.3	12.8	38.4
91	33.5	12.4	37.4

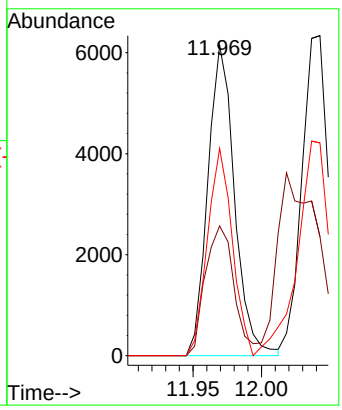




#87
1,3-Dichlorobenzene
Concen: 0.869 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:146 Resp: 833

Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.0	63.0
148	62.1	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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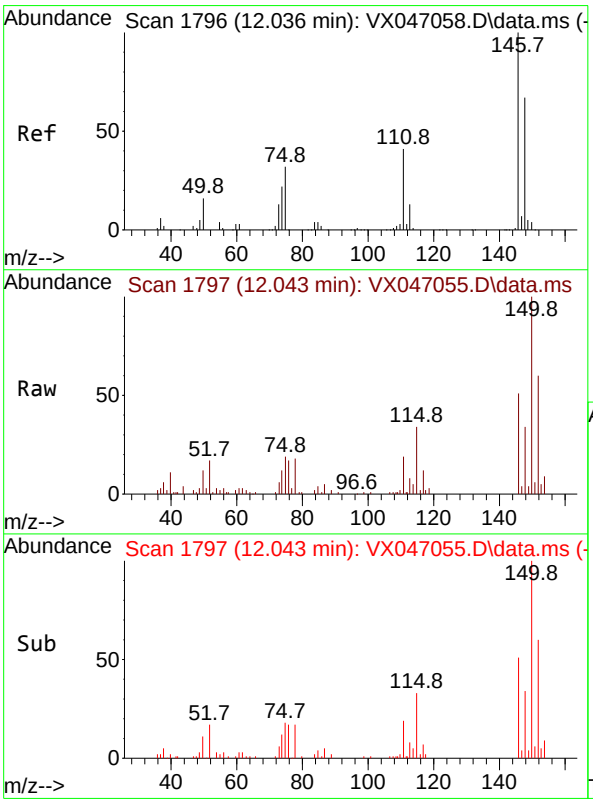
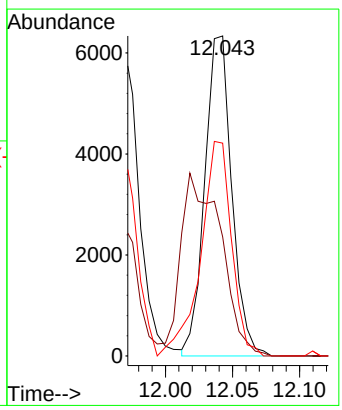
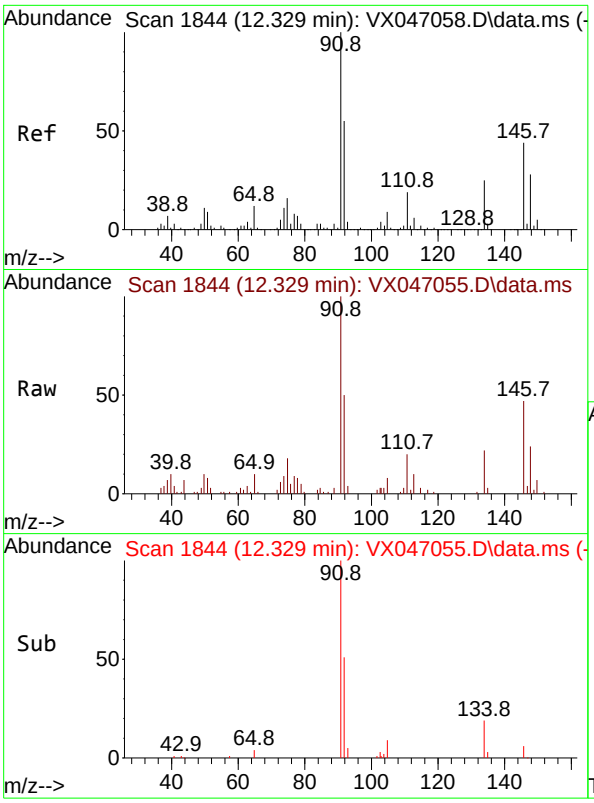


#88
1,4-Dichlorobenzene
Concen: 0.911 ug/l m
RT: 12.043 min Scan# 1797
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:146 Resp: 8857

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.6	61.9
148	58.4	33.0	98.9

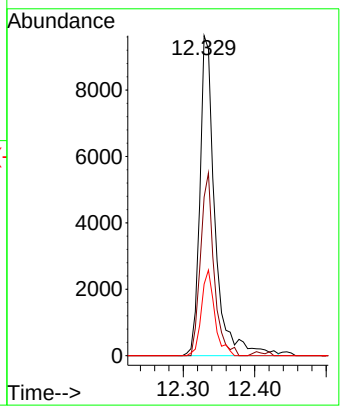




#89
n-Butylbenzene
Concen: 0.832 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 91 Resp: 1411

Ion	Ratio	Lower	Upper
91	100		
92	50.6	27.5	82.5
134	23.6	12.8	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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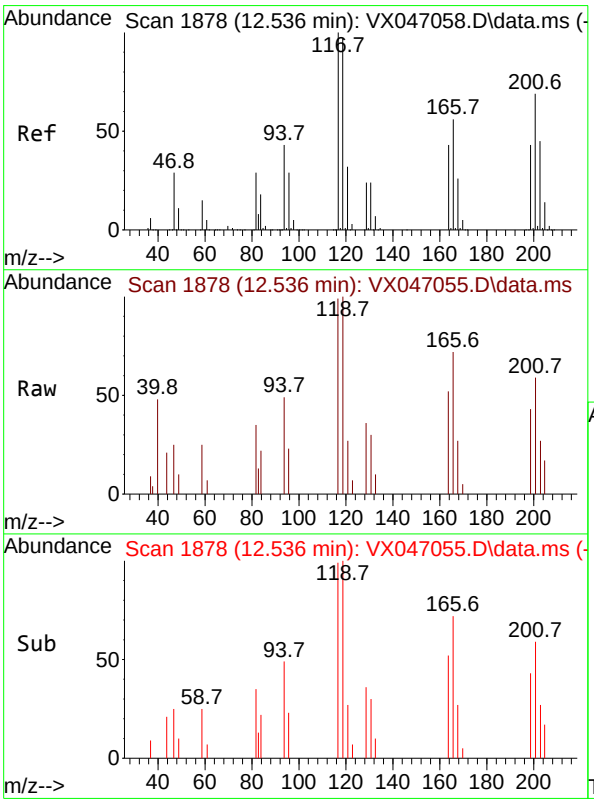
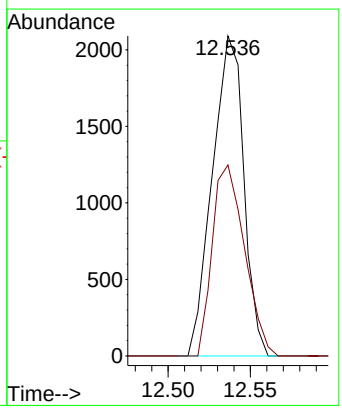
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

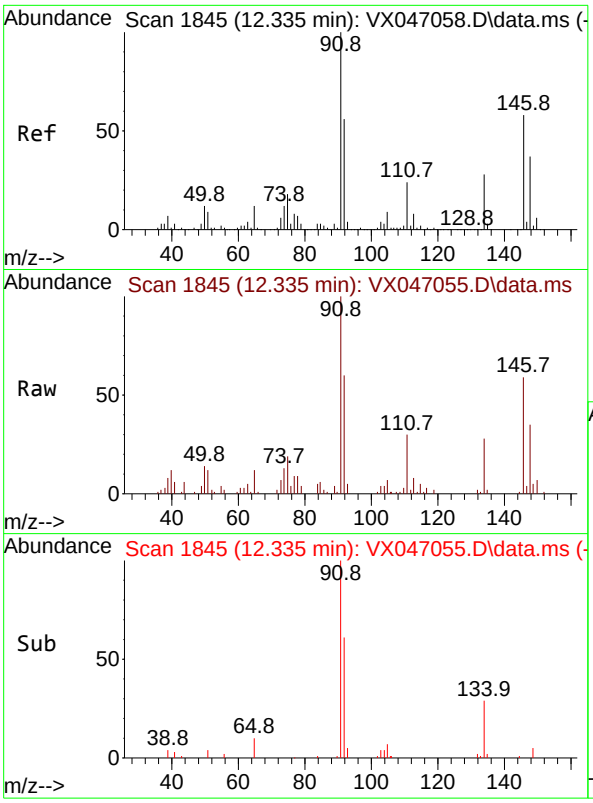


#90
Hexachloroethane
Concen: 0.857 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:117 Resp: 2772

Ion	Ratio	Lower	Upper
117	100		
201	61.4	34.8	104.5

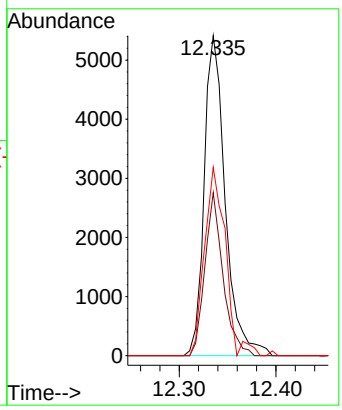




#91
1,2-Dichlorobenzene
Concen: 0.892 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:146 Resp: 818

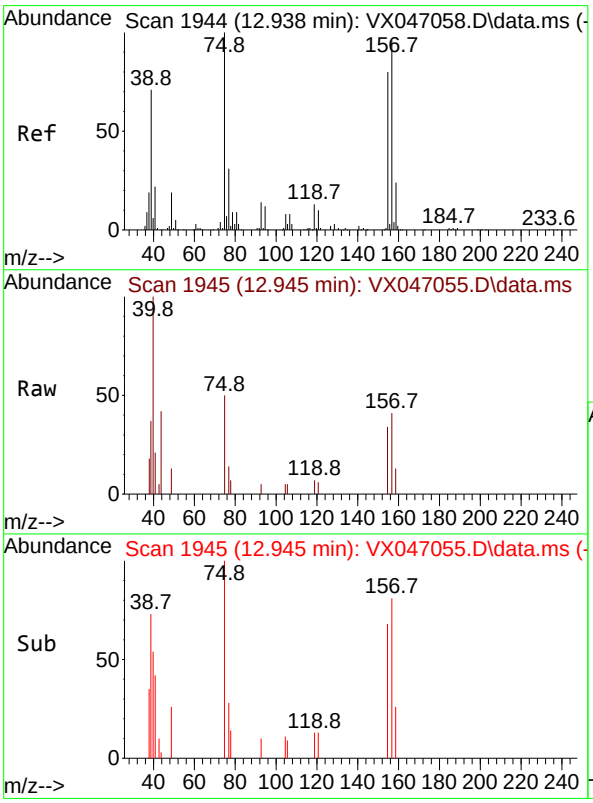
Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.6	64.6
148	58.7	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

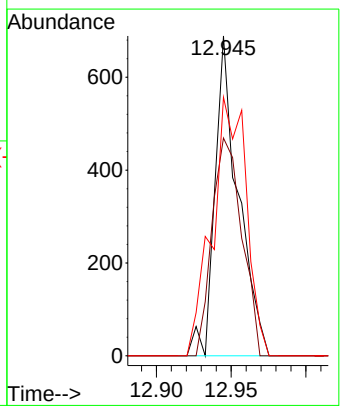
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

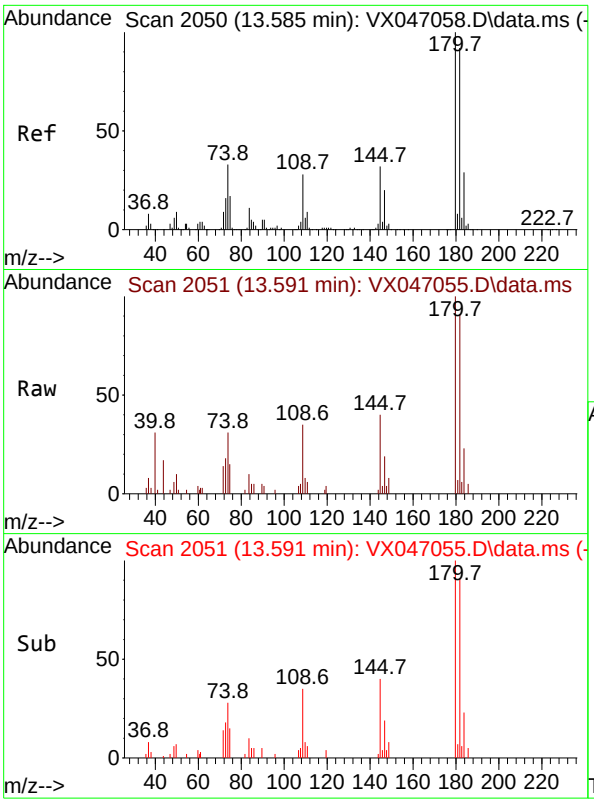


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.649 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 75 Resp: 749

Ion	Ratio	Lower	Upper
75	100		
155	86.6	41.3	124.1
157	117.2	52.8	158.3

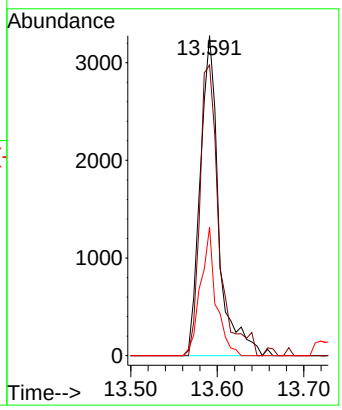




#93
1,2,4-Trichlorobenzene
Concen: 0.810 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:180 Resp: 490

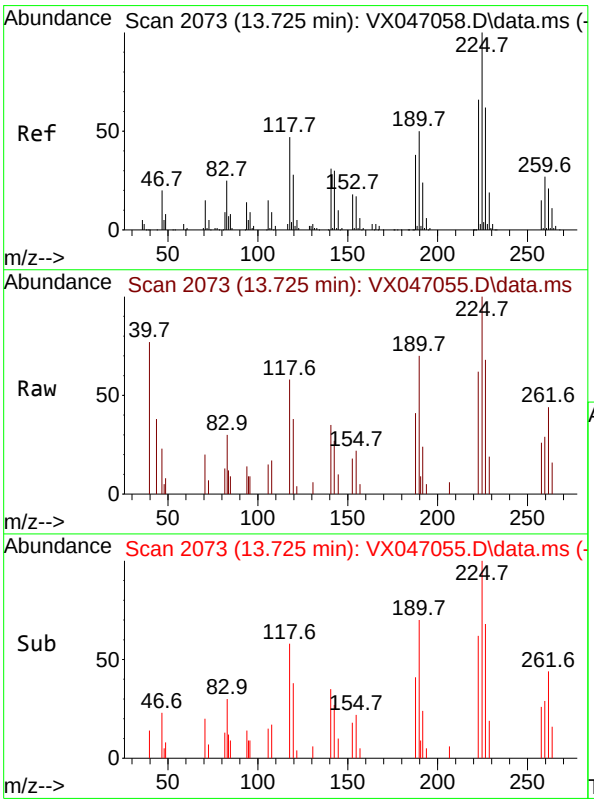
Ion	Ratio	Lower	Upper
180	100		
182	92.4	47.3	141.8
145	33.2	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

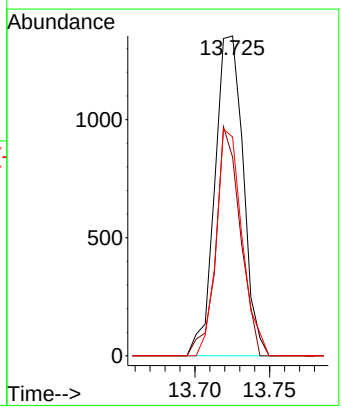
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

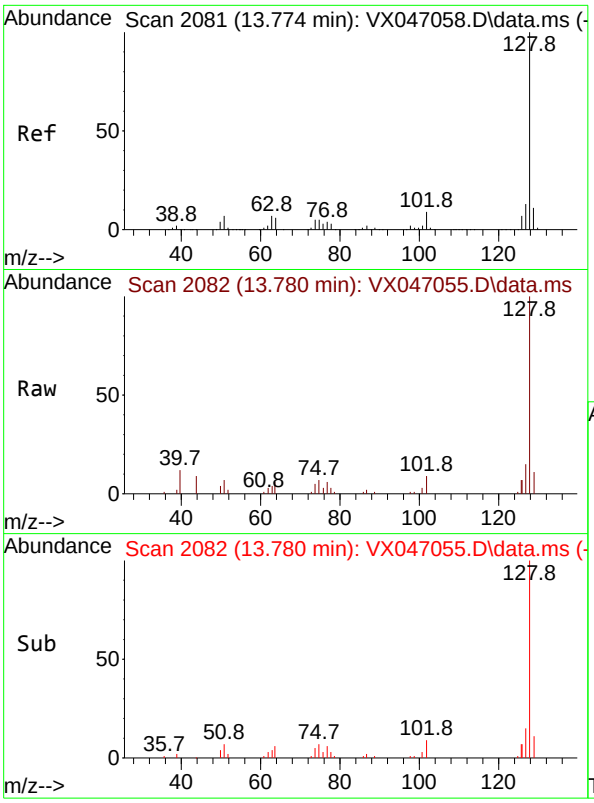


#94
Hexachlorobutadiene
Concen: 0.866 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:225 Resp: 1785

Ion	Ratio	Lower	Upper
225	100		
223	61.6	31.6	95.0
227	64.4	32.9	98.6

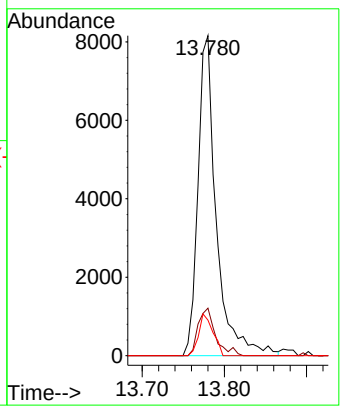




#95
Naphthalene
Concen: 0.712 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:128 Resp: 1264

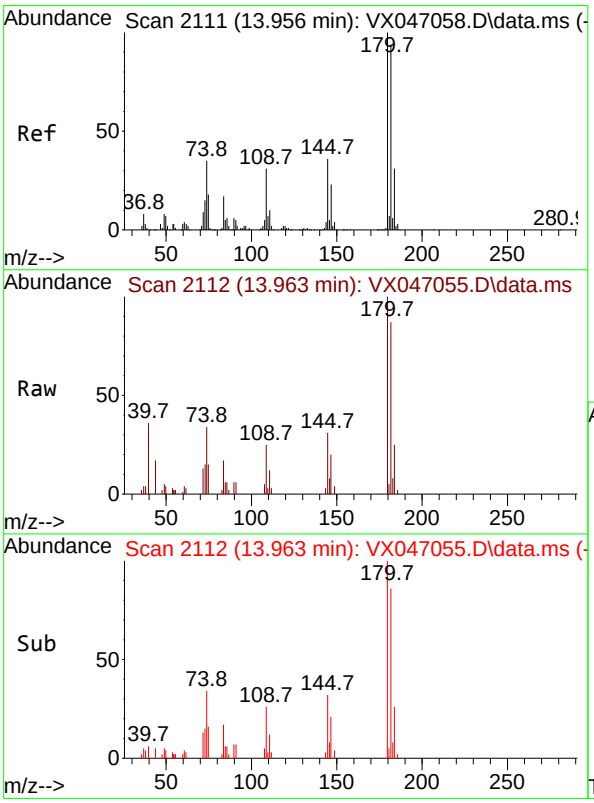
Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.1	15.1
129	10.1	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

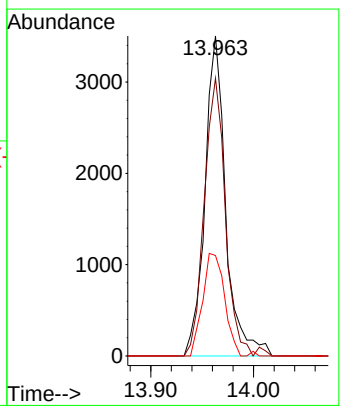
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.846 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:180 Resp: 4936

Ion	Ratio	Lower	Upper
180	100		
182	87.3	46.9	140.6
145	33.7	17.3	52.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047056.D
Acq On : 21 Jul 2025 10:08
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 22 03:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	319458	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	542097	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	488683	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	246301	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	24550	6.169	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 12.340%#			
35) Dibromofluoromethane	5.403	113	19243	5.749	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 11.500%#			
50) Toluene-d8	8.652	98	70081	6.465	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 12.940%#			
62) 4-Bromofluorobenzene	11.079	95	27880	5.968	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 11.940%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	20453	4.820	ug/l	95
3) Chloromethane	1.306	50	21331	5.082	ug/l	97
4) Vinyl Chloride	1.385	62	23623	5.236	ug/l	100
5) Bromomethane	1.617	94	13048	5.324	ug/l	88
6) Chloroethane	1.702	64	15411	5.200	ug/l	98
7) Trichlorofluoromethane	1.904	101	35886	5.334	ug/l	96
8) Diethyl Ether	2.148	74	12607	5.315	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.343	101	21422	5.285	ug/l	98
10) Methyl Iodide	2.471	142	15201	3.680	ug/l	93
11) Tert butyl alcohol	2.964	59	17392	28.263	ug/l #	92
12) 1,1-Dichloroethene	2.337	96	21053	5.244	ug/l	91
13) Acrolein	2.251	56	21604	25.213	ug/l	99
14) Allyl chloride	2.678	41	38039	5.242	ug/l	99
15) Acrylonitrile	3.074	53	51340	27.051	ug/l	100
16) Acetone	2.391	43	42718	26.796	ug/l	99
17) Carbon Disulfide	2.526	76	61522	5.297	ug/l	100
18) Methyl Acetate	2.721	43	21905	5.171	ug/l	99
19) Methyl tert-butyl Ether	3.129	73	64256	5.259	ug/l	96
20) Methylene Chloride	2.806	84	23989	5.470	ug/l	93
21) trans-1,2-Dichloroethene	3.111	96	22396	5.451	ug/l	96
22) Diisopropyl ether	3.775	45	76458	5.480	ug/l	97
23) Vinyl Acetate	3.739	43	288230	25.756	ug/l	100
24) 1,1-Dichloroethane	3.623	63	42402	5.465	ug/l	96
25) 2-Butanone	4.574	43	60022	25.858	ug/l	97
26) 2,2-Dichloropropane	4.489	77	32298	5.378	ug/l	97
27) cis-1,2-Dichloroethene	4.507	96	26579	5.463	ug/l	98
28) Bromochloromethane	4.921	49	19435	5.445	ug/l	96
29) Tetrahydrofuran	5.031	42	39885	26.631	ug/l	96
30) Chloroform	5.110	83	43336	5.487	ug/l	93
31) Cyclohexane	5.482	56	38990	5.241	ug/l	97
32) 1,1,1-Trichloroethane	5.391	97	36920	5.382	ug/l	98
36) 1,1-Dichloropropene	5.702	75	28590	5.011	ug/l	98
37) Ethyl Acetate	4.739	43	29112m	5.790	ug/l	
38) Carbon Tetrachloride	5.690	117	33199	5.452	ug/l	97
39) Methylcyclohexane	7.384	83	37547	5.271	ug/l	95
40) Benzene	6.049	78	89797	5.438	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047056.D
Acq On : 21 Jul 2025 10:08
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 22 03:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	14018	5.100	ug/l		98
42) 1,2-Dichloroethane	6.092	62	31844	5.475	ug/l		96
43) Isopropyl Acetate	6.354	43	42946	5.240	ug/l		95
44) Trichloroethene	7.134	130	23153	5.468	ug/l		81
45) 1,2-Dichloropropane	7.439	63	22722	5.494	ug/l		93
46) Dibromomethane	7.592	93	16479	5.682	ug/l		97
47) Bromodichloromethane	7.823	83	33939	5.498	ug/l		99
48) Methyl methacrylate	7.701	41	21660	4.851	ug/l		99
49) 1,4-Dioxane	7.671	88	5549	109.271	ug/l	#	92
51) 4-Methyl-2-Pentanone	8.573	43	129413	26.565	ug/l		97
52) Toluene	8.720	92	56775	5.592	ug/l		100
53) t-1,3-Dichloropropene	8.982	75	29776	5.108	ug/l		94
54) cis-1,3-Dichloropropene	8.372	75	33127	5.193	ug/l		98
55) 1,1,2-Trichloroethane	9.152	97	21223	5.574	ug/l		97
56) Ethyl methacrylate	9.116	69	28587	5.072	ug/l		96
57) 1,3-Dichloropropane	9.311	76	37251	5.629	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	97443	31.066	ug/l		98
59) 2-Hexanone	9.433	43	84572	26.276	ug/l		99
60) Dibromochloromethane	9.518	129	24354	5.454	ug/l		99
61) 1,2-Dibromoethane	9.610	107	21578	5.420	ug/l		98
64) Tetrachloroethene	9.274	164	19701	5.592	ug/l		96
65) Chlorobenzene	10.079	112	63268	5.526	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.164	131	20300	5.267	ug/l		99
67) Ethyl Benzene	10.195	91	106984	5.345	ug/l		96
68) m/p-Xylenes	10.299	106	80835	10.791	ug/l		99
69) o-Xylene	10.640	106	40071	5.623	ug/l		94
70) Styrene	10.658	104	66283	5.424	ug/l		100
71) Bromoform	10.798	173	15763	5.384	ug/l	#	97
73) Isopropylbenzene	10.963	105	102157	5.257	ug/l		97
74) N-amyl acetate	10.841	43	36965	4.769	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	29627	5.338	ug/l		99
76) 1,2,3-Trichloropropane	11.237	75	25285m	5.546	ug/l		
77) Bromobenzene	11.195	156	24549	5.267	ug/l		95
78) n-propylbenzene	11.304	91	124648	5.368	ug/l		100
79) 2-Chlorotoluene	11.365	91	74781	5.387	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	86414	5.383	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	7407	4.186	ug/l		86
82) 4-Chlorotoluene	11.457	91	88304	5.450	ug/l		99
83) tert-Butylbenzene	11.713	119	84560	5.248	ug/l		97
84) 1,2,4-Trimethylbenzene	11.749	105	87289	5.451	ug/l		99
85) sec-Butylbenzene	11.890	105	110255	5.477	ug/l		100
86) p-Isopropyltoluene	12.006	119	91112	5.457	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	48466	5.473	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	48817	5.441	ug/l		95
89) n-Butylbenzene	12.329	91	81710	5.219	ug/l		99
90) Hexachloroethane	12.536	117	14794	4.953	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	46129	5.450	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	5485	5.148	ug/l		95
93) 1,2,4-Trichlorobenzene	13.585	180	29296	5.239	ug/l		99
94) Hexachlorobutadiene	13.719	225	9742	5.122	ug/l		91
95) Naphthalene	13.774	128	79568	4.854	ug/l		99
96) 1,2,3-Trichlorobenzene	13.962	180	27584	5.120	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047056.D
Acq On : 21 Jul 2025 10:08
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 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

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

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

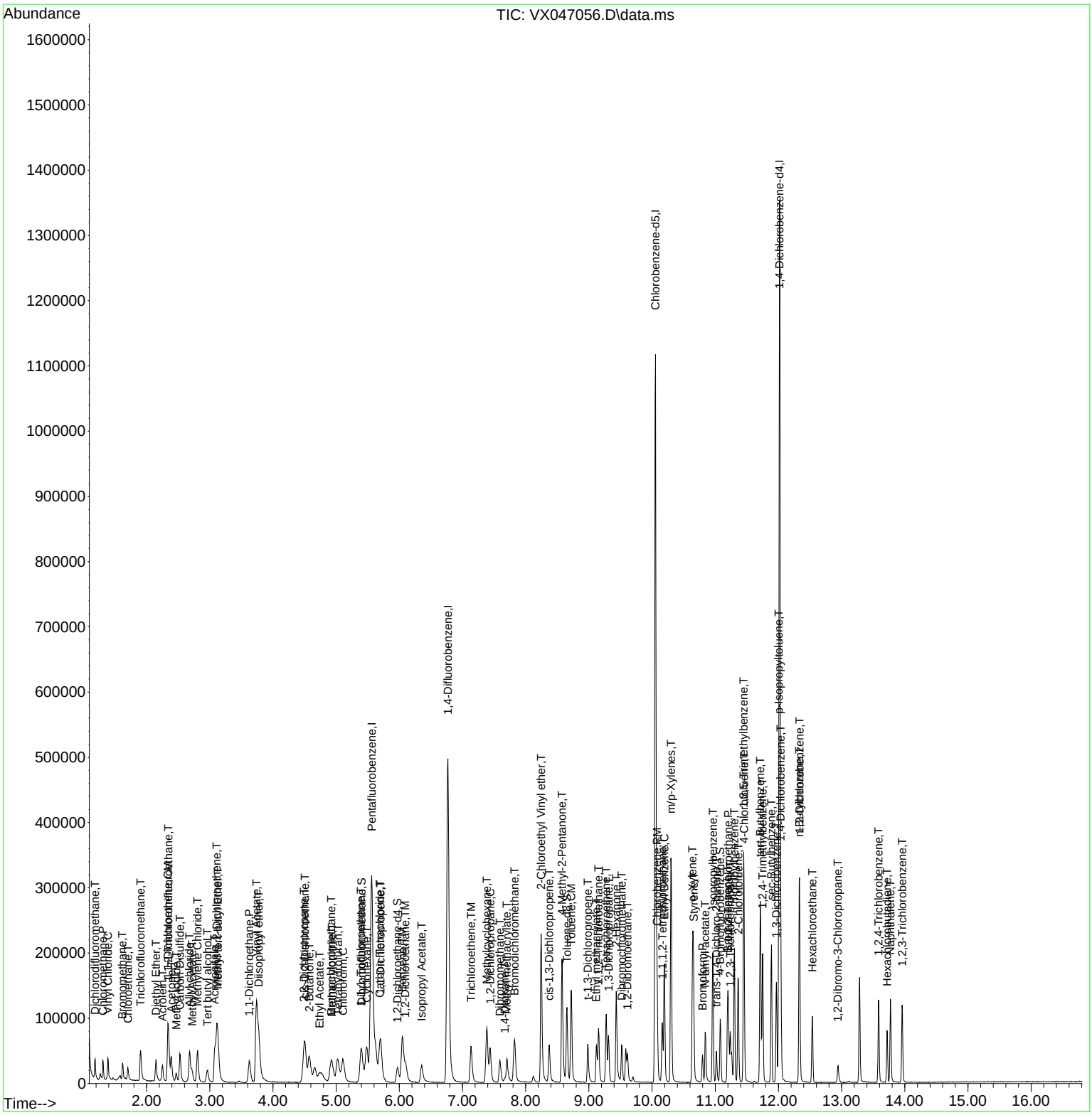
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047056.D
Acq On : 21 Jul 2025 10:08
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

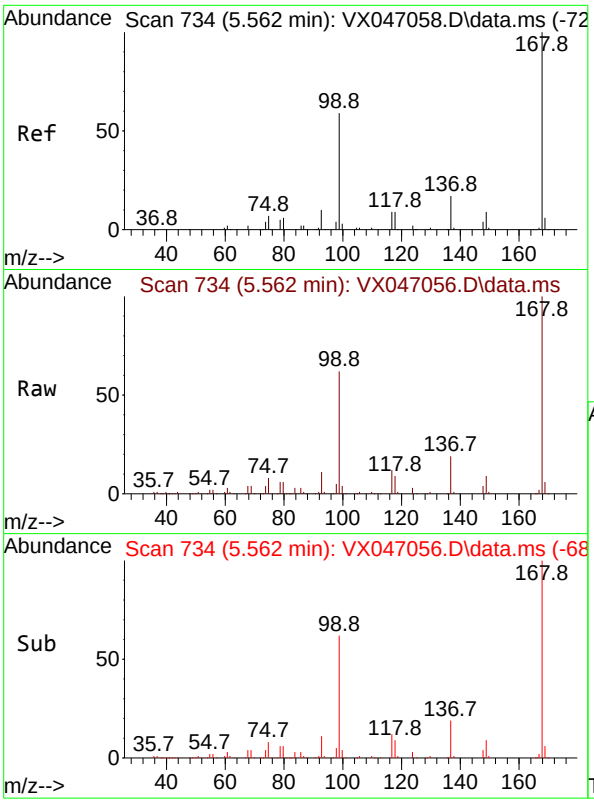
Quant Time: Jul 22 03:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

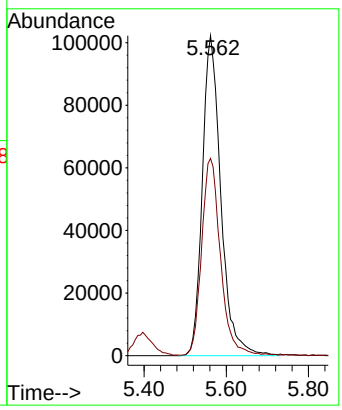




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:168 Resp: 31945

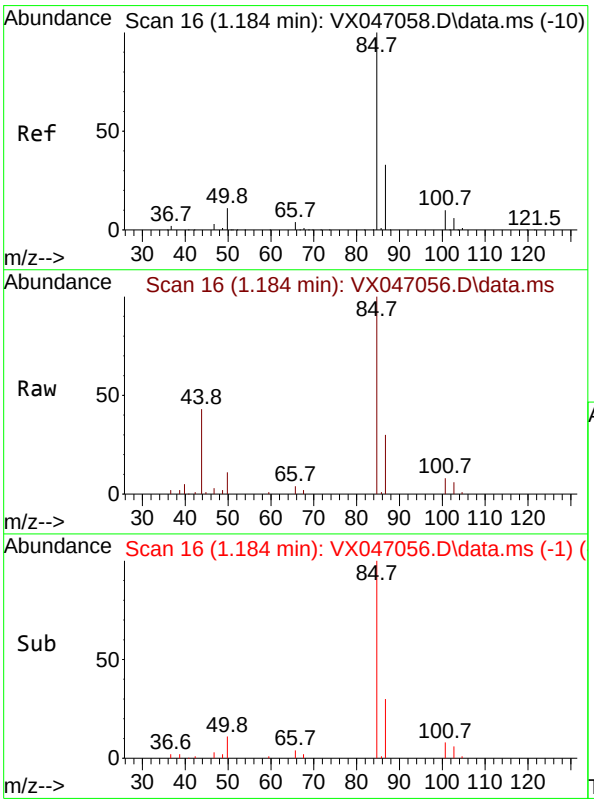
Ion	Ratio	Lower	Upper
168	100		
99	61.5	48.0	72.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

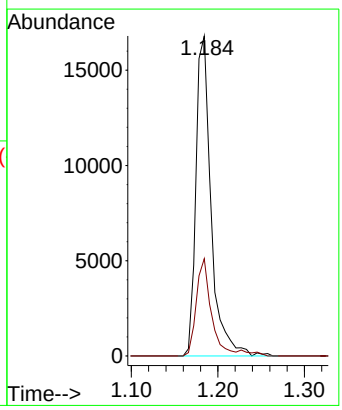
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

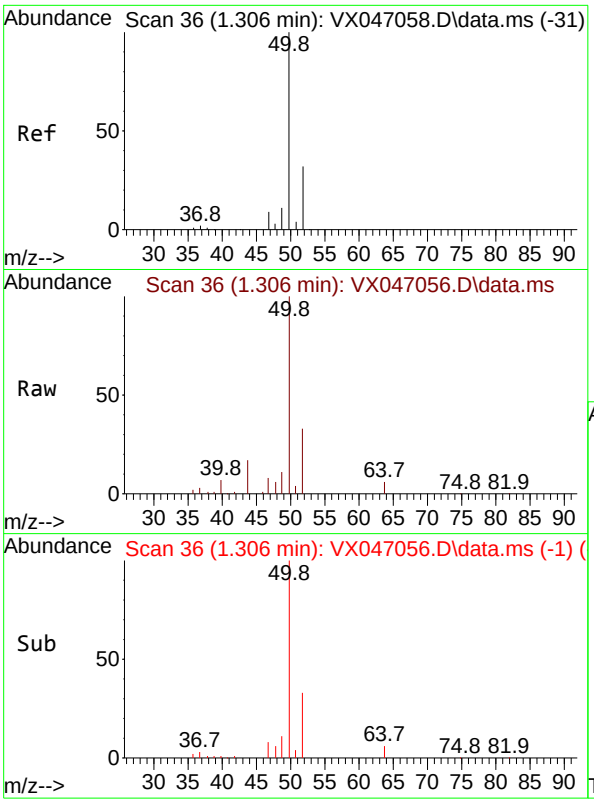


#2
Dichlorodifluoromethane
Concen: 4.820 ug/l
RT: 1.184 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 85 Resp: 20453

Ion	Ratio	Lower	Upper
85	100		
87	30.4	16.6	49.8

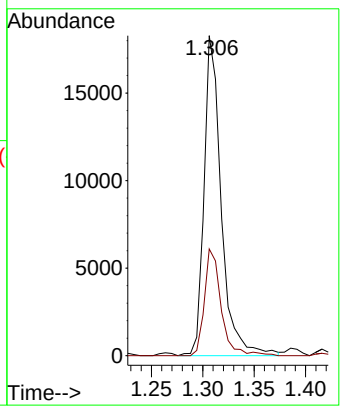




#3
Chloromethane
Concen: 5.082 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 50 Resp: 2133

Ion	Ratio	Lower	Upper
50	100		
52	33.4	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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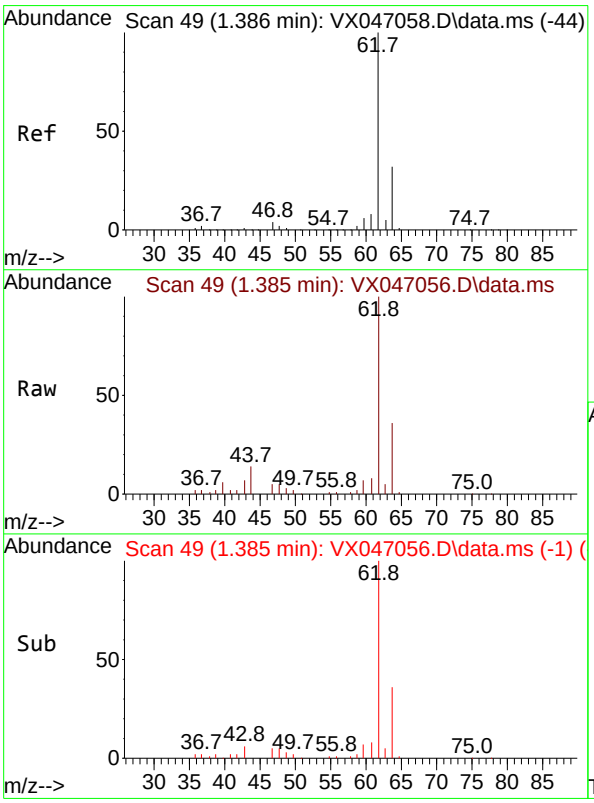
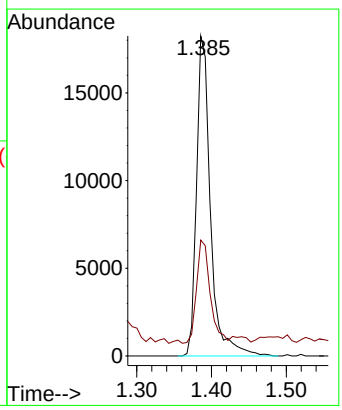
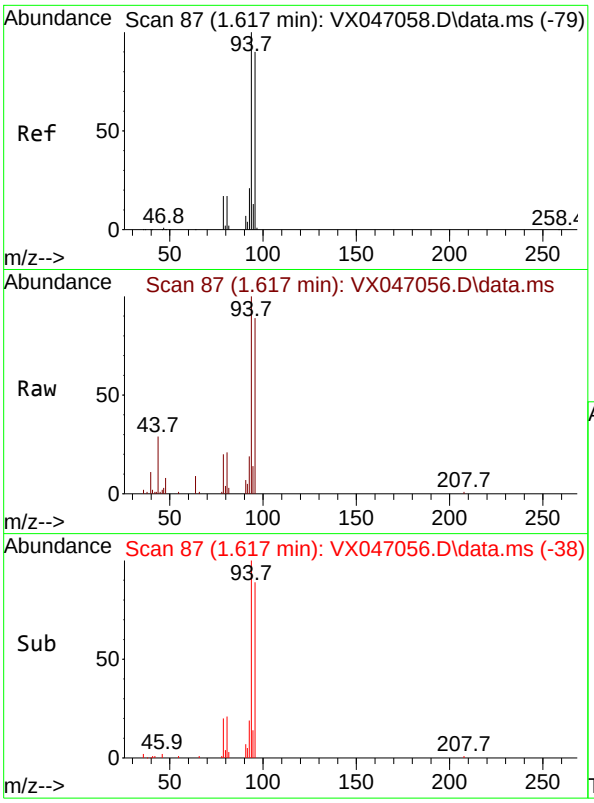


#4
Vinyl Chloride
Concen: 5.236 ug/l
RT: 1.385 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 62 Resp: 23623

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.2	37.8

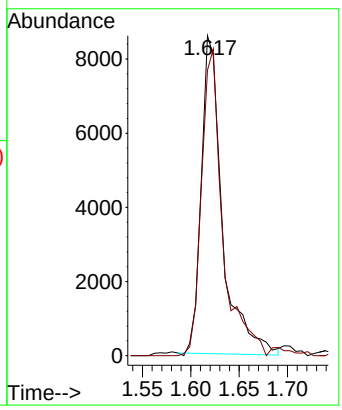




#5
Bromomethane
Concen: 5.324 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 94 Resp: 1304

Ion	Ratio	Lower	Upper
94	100		
96	79.1	72.3	108.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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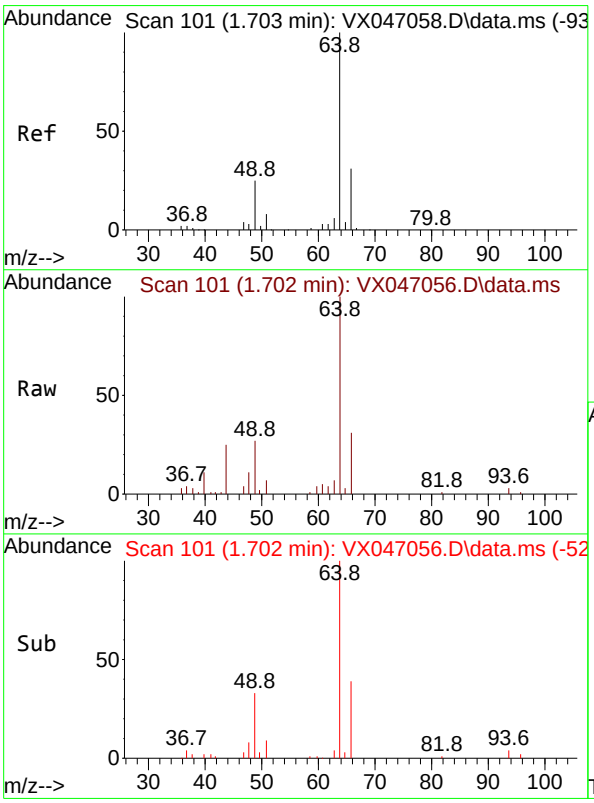
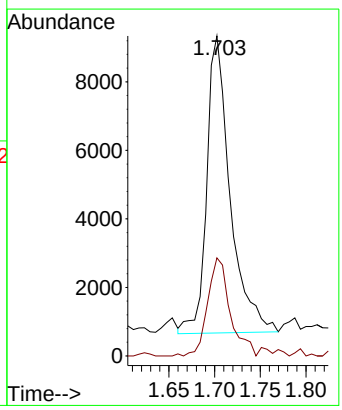
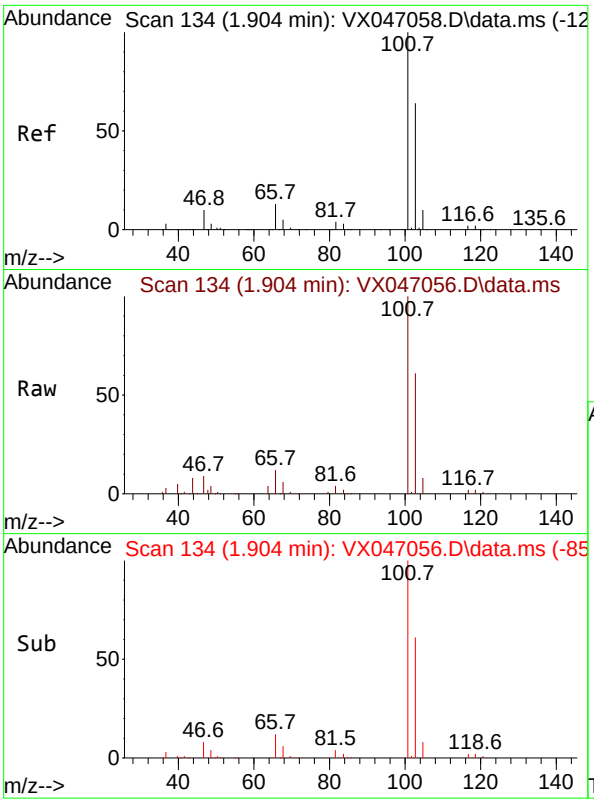


#6
Chloroethane
Concen: 5.200 ug/l
RT: 1.702 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 64 Resp: 15411

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.0	37.6

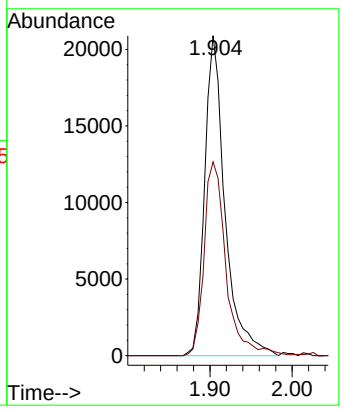




#7
Trichlorofluoromethane
Concen: 5.334 ug/l
RT: 1.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:101 Resp: 3588

Ion	Ratio	Lower	Upper
101	100		
103	60.5	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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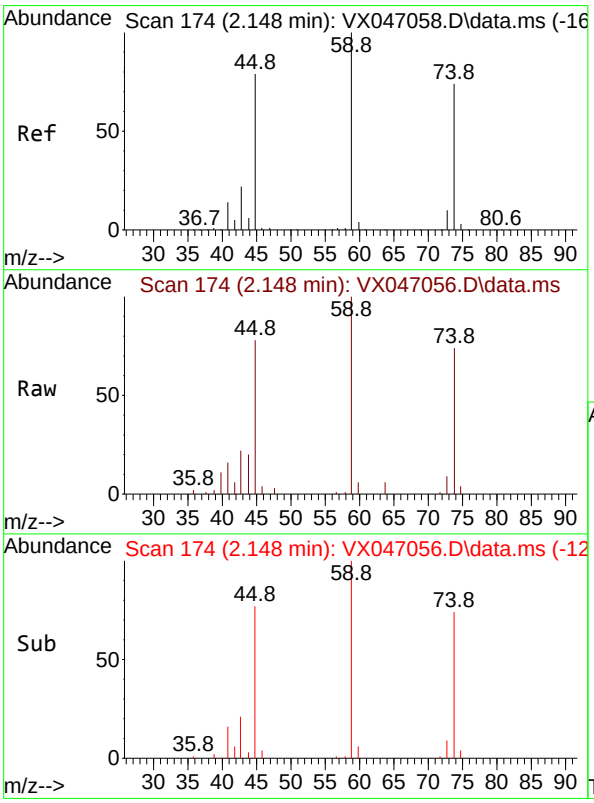
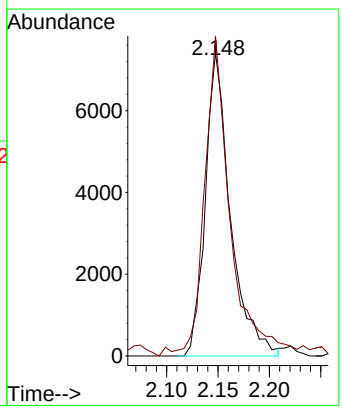
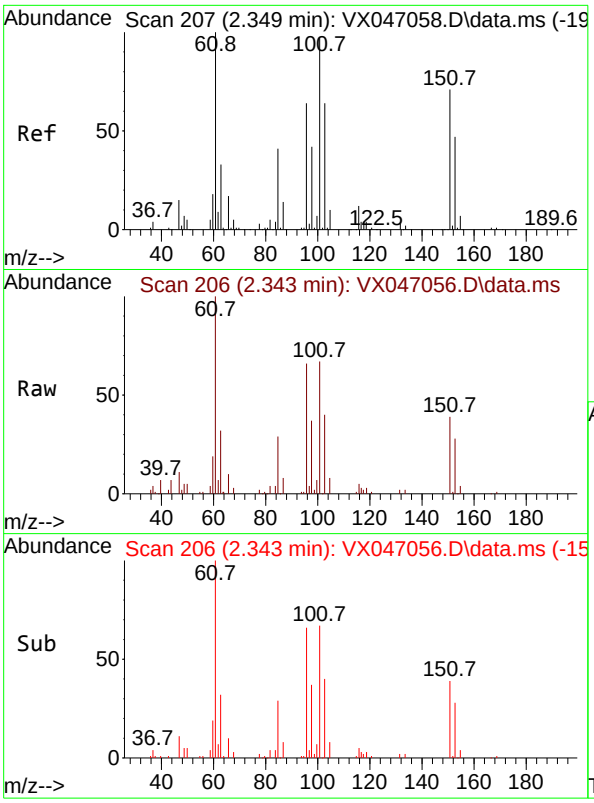


#8
Diethyl Ether
Concen: 5.315 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 74 Resp: 12607

Ion	Ratio	Lower	Upper
74	100		
45	107.9	53.0	159.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.285 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:101 Resp: 2142

Ion	Ratio	Lower	Upper
101	100		
85	45.7	35.4	53.0
151	72.1	59.2	88.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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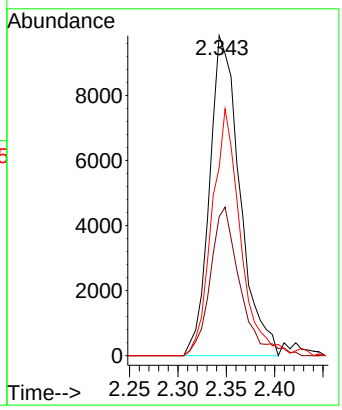
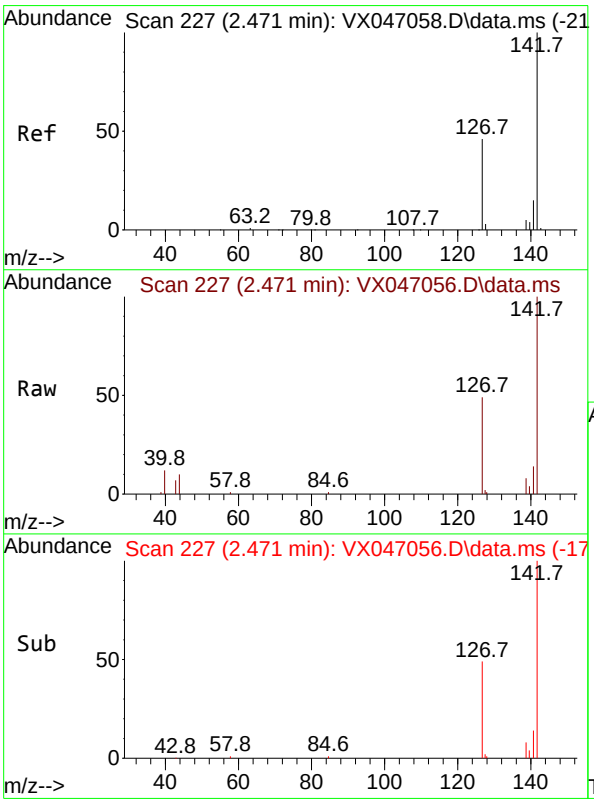
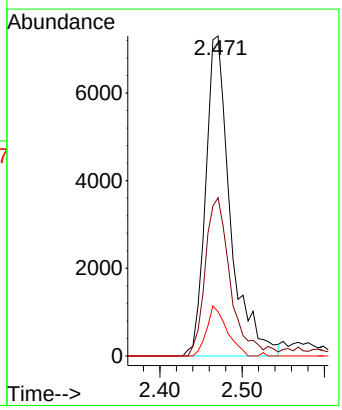


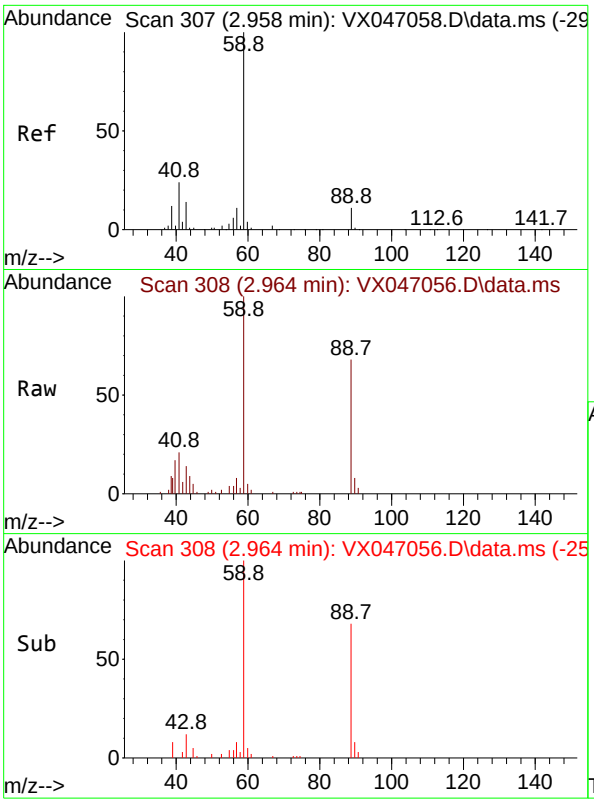


#10
Methyl Iodide
Concen: 3.680 ug/l
RT: 2.471 min Scan# 227
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:142 Resp: 15201

Ion	Ratio	Lower	Upper
142	100		
127	51.0	36.6	54.8
141	12.8	10.9	16.3





#11
Tert butyl alcohol
Concen: 28.263 ug/l
RT: 2.964 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 59 Resp: 1739

Ion	Ratio	Lower	Upper
59	100		
57	7.4	8.5	12.7#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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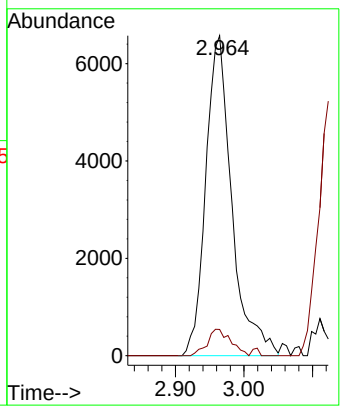
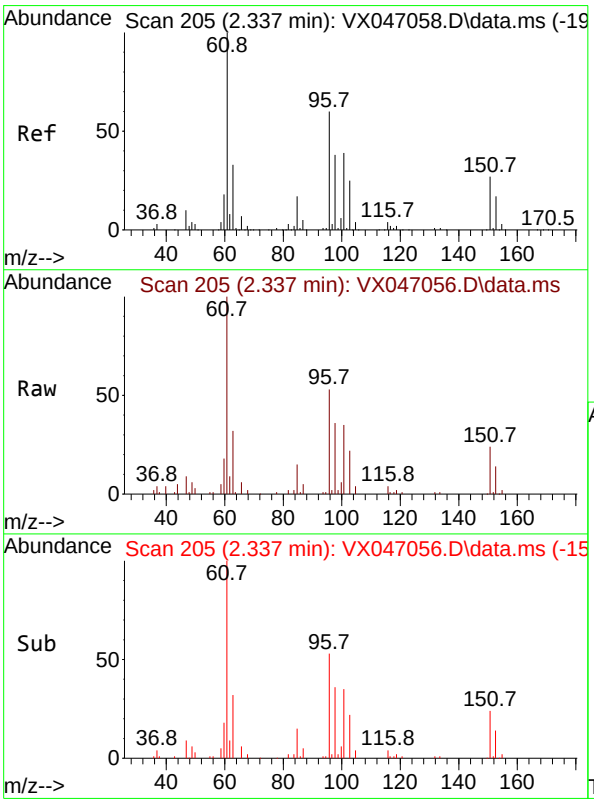
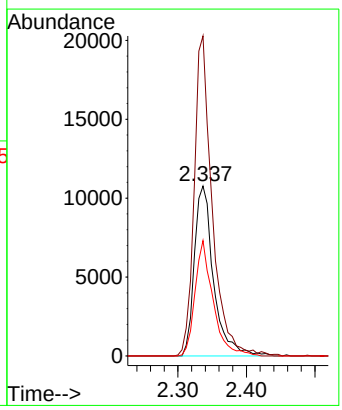


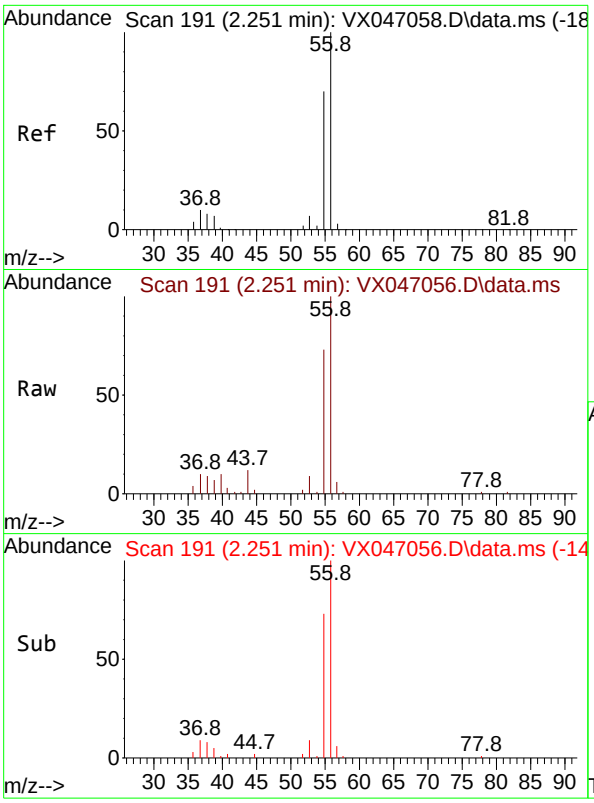


#12
1,1-Dichloroethene
Concen: 5.244 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 96 Resp: 21053

Ion	Ratio	Lower	Upper
96	100		
61	180.6	132.6	198.8
98	65.4	50.2	75.4

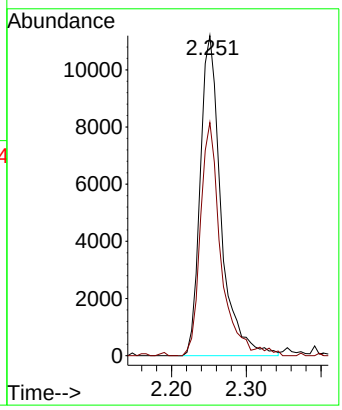




#13
Acrolein
Concen: 25.213 ug/l
RT: 2.251 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 56 Resp: 2160

Ion	Ratio	Lower	Upper
56	100		
55	70.2	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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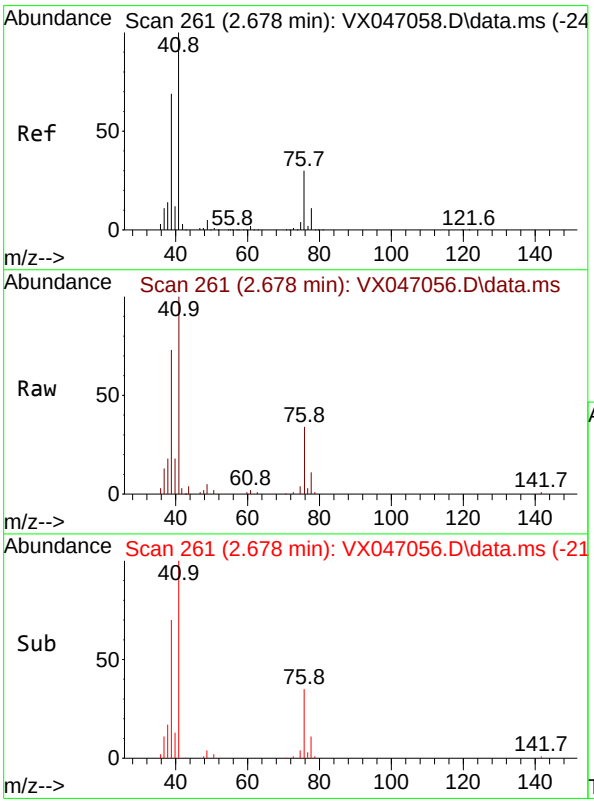
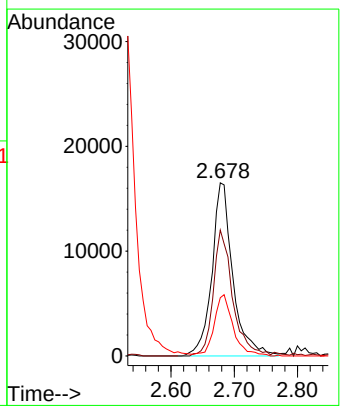
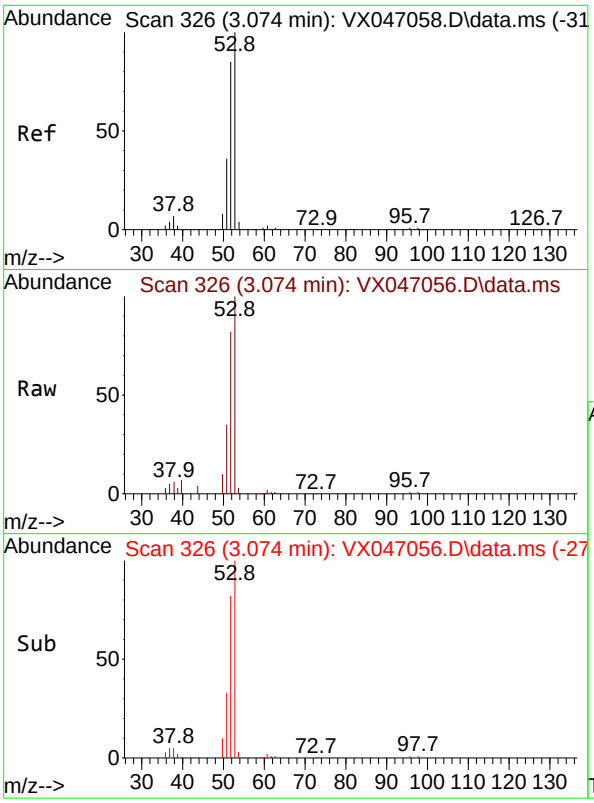


#14
Allyl chloride
Concen: 5.242 ug/l
RT: 2.678 min Scan# 261
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 41 Resp: 38039

Ion	Ratio	Lower	Upper
41	100		
39	67.1	52.6	78.8
76	32.0	25.7	38.5

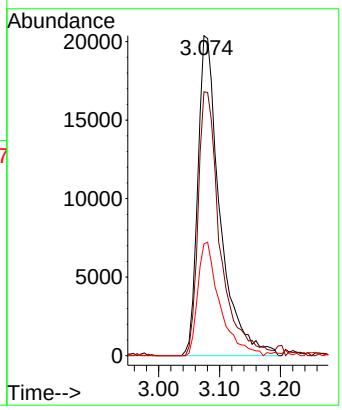




#15
Acrylonitrile
Concen: 27.051 ug/l
RT: 3.074 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 53 Resp: 5134

Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.7	98.5
51	35.3	28.8	43.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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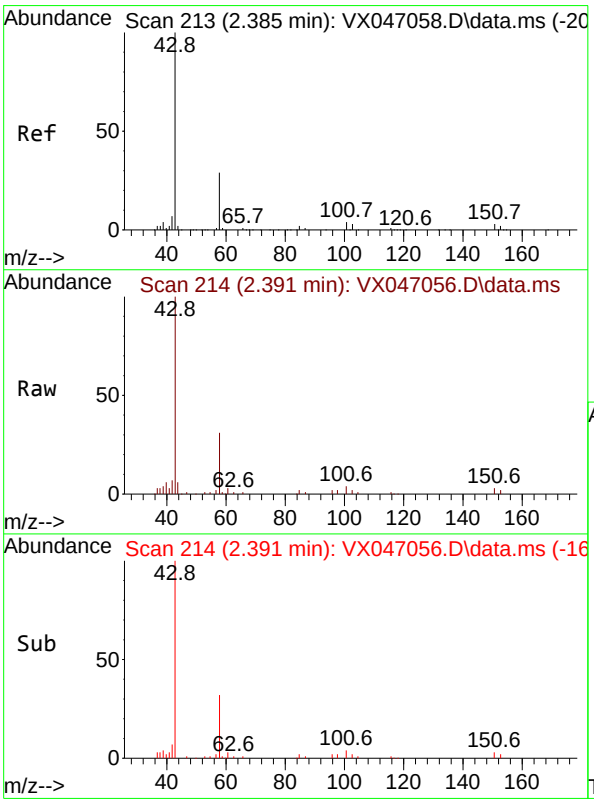
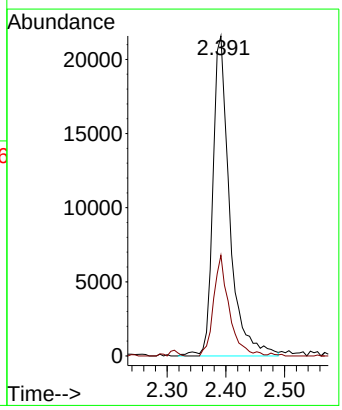
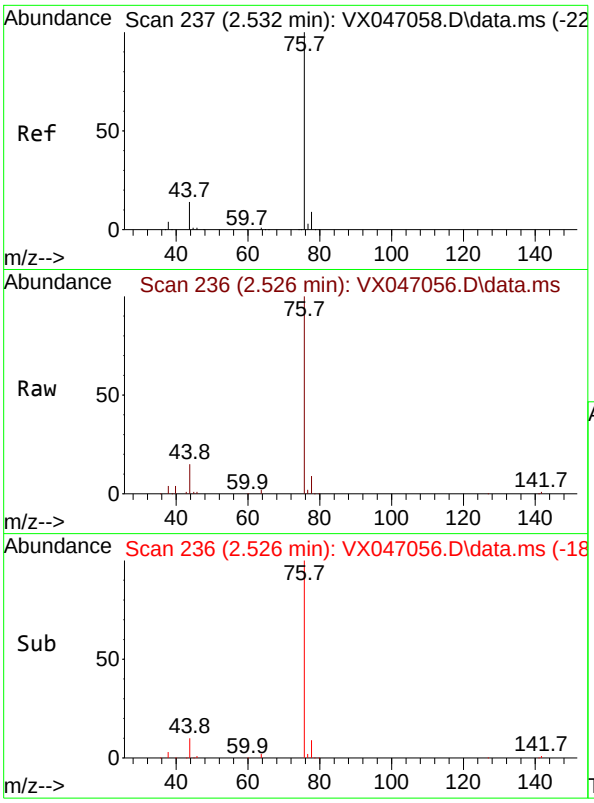


#16
Acetone
Concen: 26.796 ug/l
RT: 2.391 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 42718

Ion	Ratio	Lower	Upper
43	100		
58	30.3	24.0	36.0

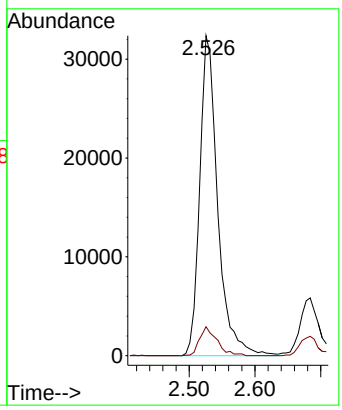




#17
Carbon Disulfide
Concen: 5.297 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 76 Resp: 6152

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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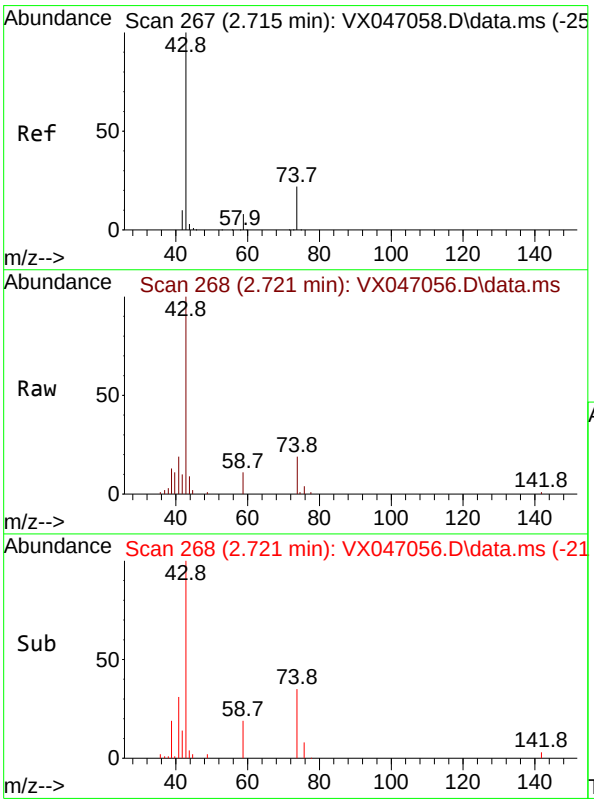
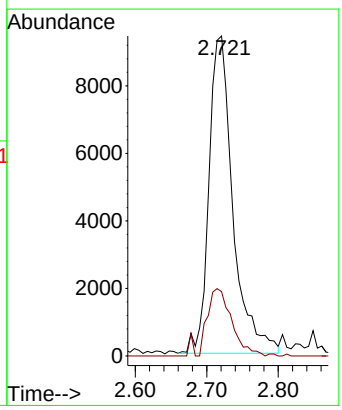
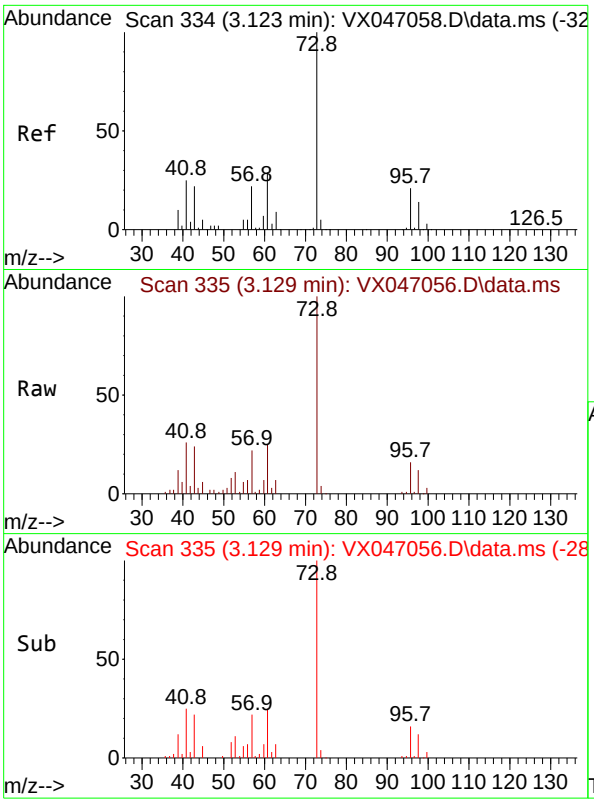


#18
Methyl Acetate
Concen: 5.171 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 21905

Ion	Ratio	Lower	Upper
43	100		
74	21.4	17.7	26.5

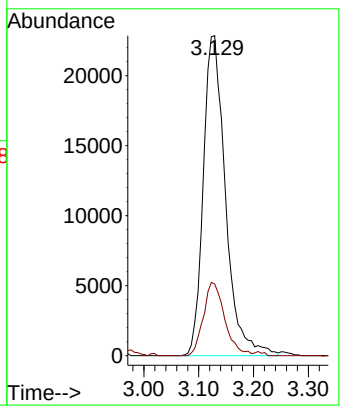




#19
Methyl tert-butyl Ether
Concen: 5.259 ug/l
RT: 3.129 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 73 Resp: 6425

Ion	Ratio	Lower	Upper
73	100		
57	23.8	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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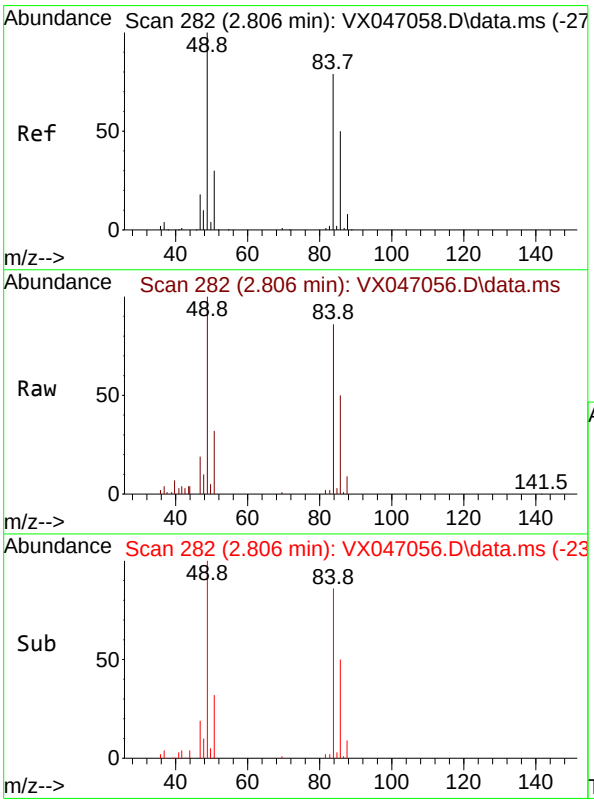
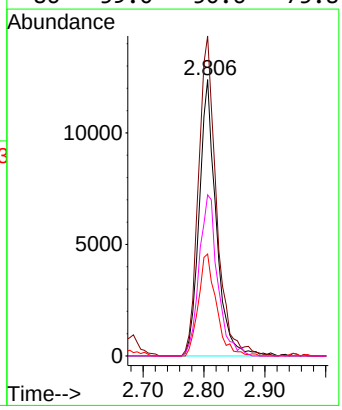
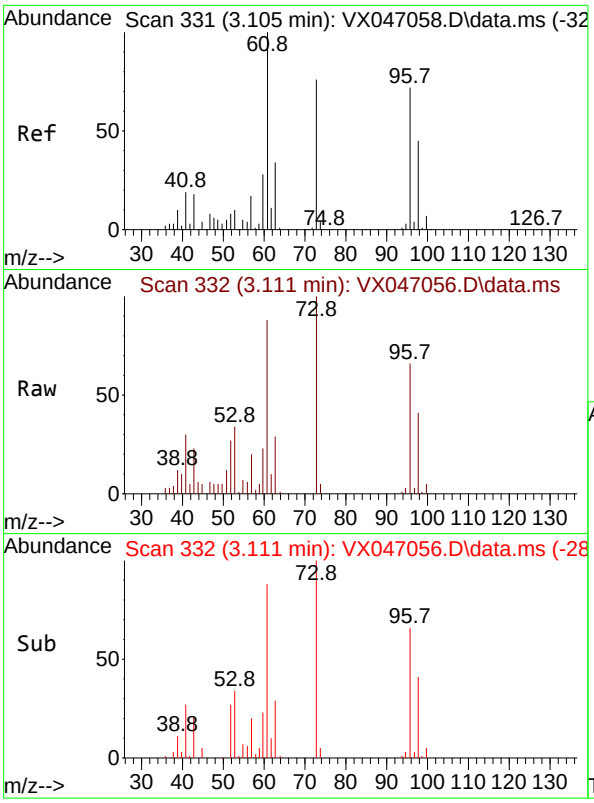


#20
Methylene Chloride
Concen: 5.470 ug/l
RT: 2.806 min Scan# 282
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 84 Resp: 23989

Ion	Ratio	Lower	Upper
84	100		
49	115.8	101.6	152.4
51	36.9	30.3	45.5
86	59.0	50.6	75.8

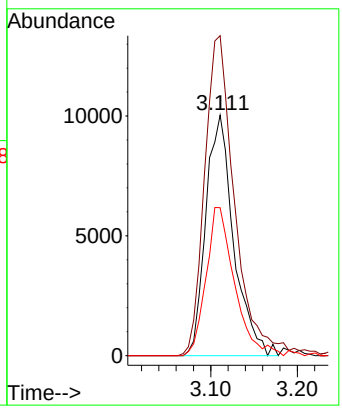




#21
trans-1,2-Dichloroethene
Concen: 5.451 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 96 Resp: 2239

Ion	Ratio	Lower	Upper
96	100		
61	133.1	111.1	166.7
98	63.0	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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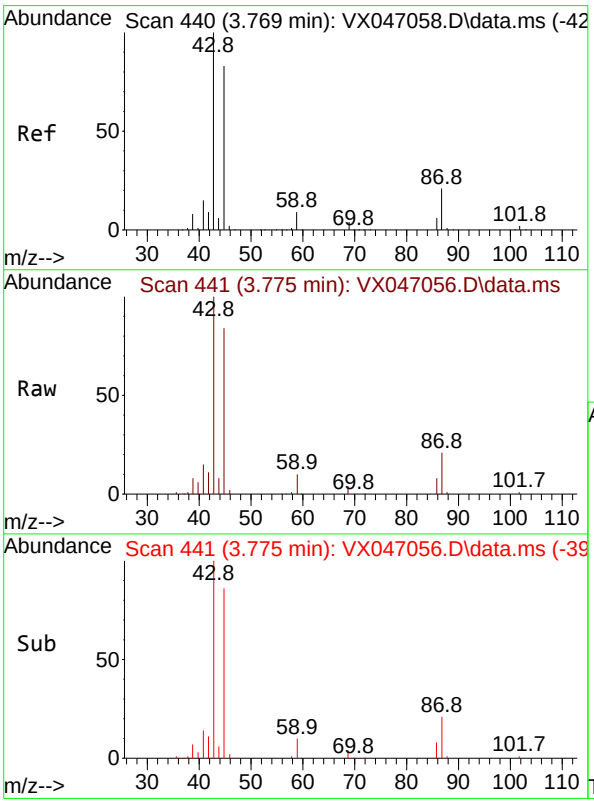
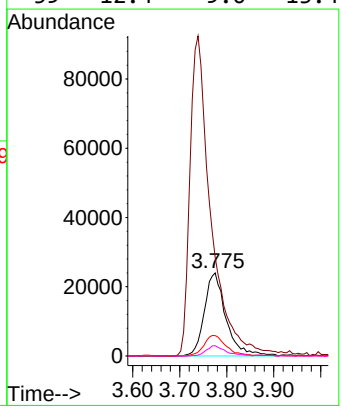
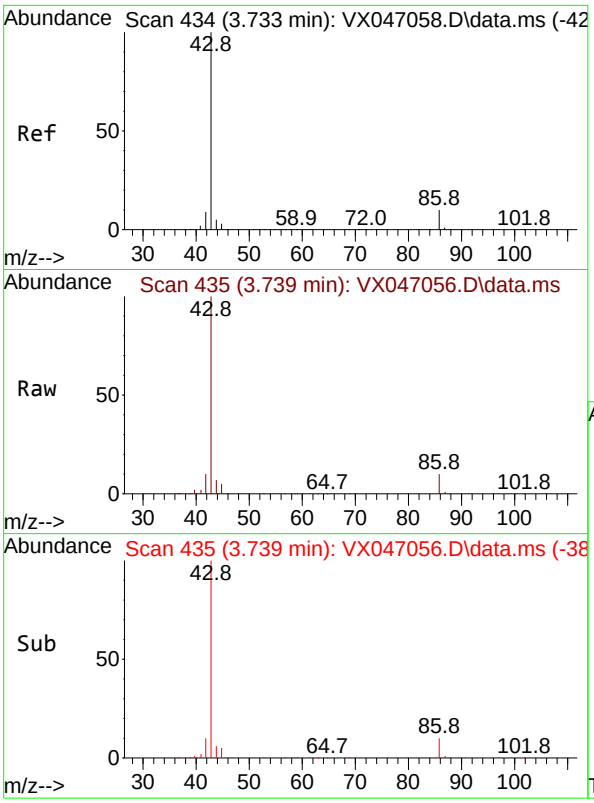


#22
Diisopropyl ether
Concen: 5.480 ug/l
RT: 3.775 min Scan# 441
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 45 Resp: 76458

Ion	Ratio	Lower	Upper
45	100		
43	117.4	96.8	145.2
87	24.5	20.5	30.7
59	12.4	9.0	13.4





#23
Vinyl Acetate
Concen: 25.756 ug/l
RT: 3.739 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 28823

Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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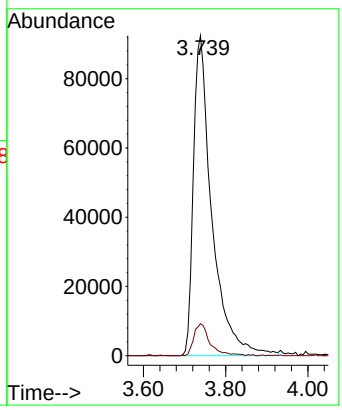
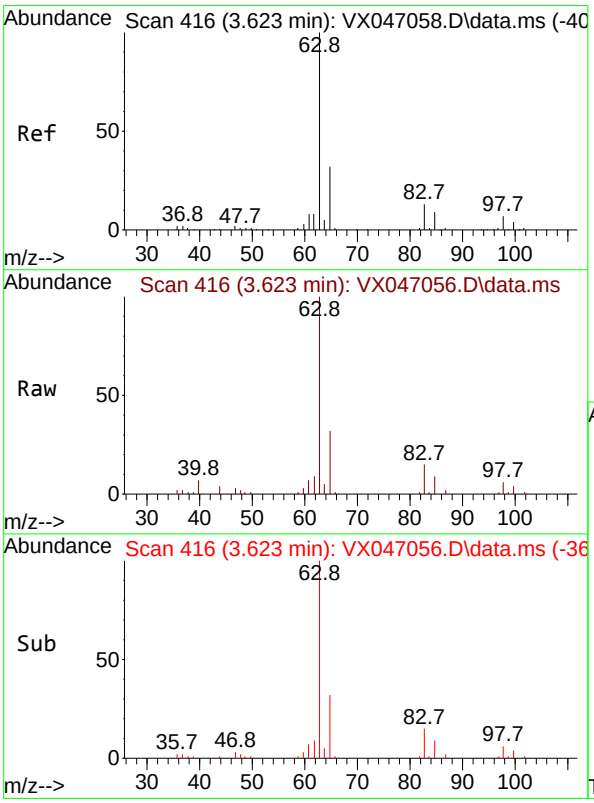
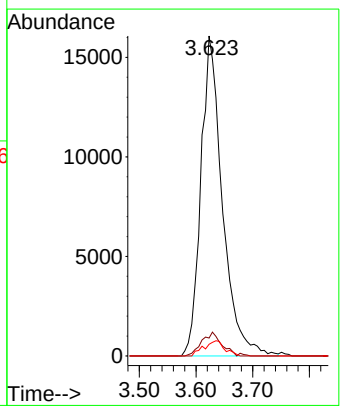


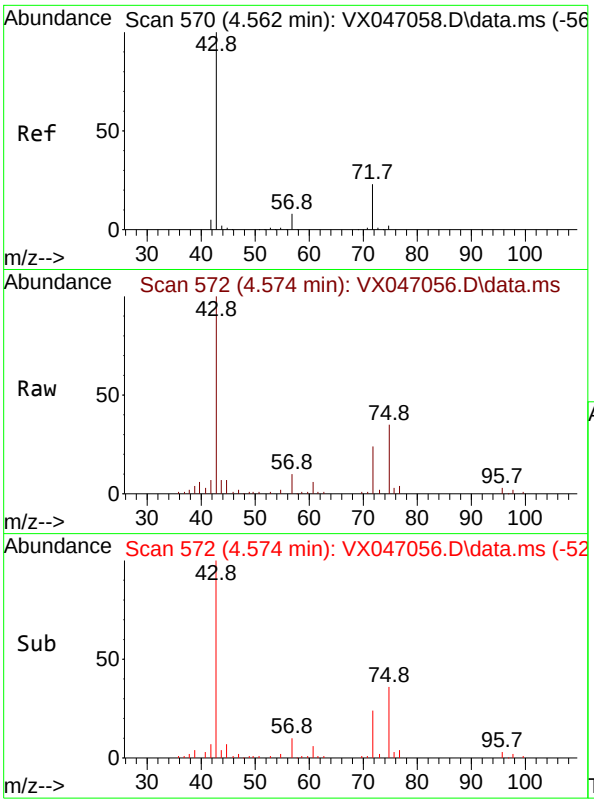


#24
1,1-Dichloroethane
Concen: 5.465 ug/l
RT: 3.623 min Scan# 416
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 63 Resp: 42402

Ion	Ratio	Lower	Upper
63	100		
98	5.6	3.6	10.8
100	3.7	2.3	6.8

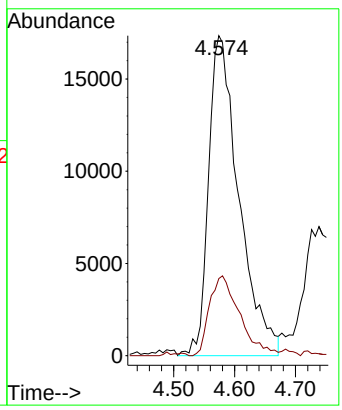




#25
2-Butanone
Concen: 25.858 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 6002

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.8	28.2



Instrument :
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ClientSampleId :
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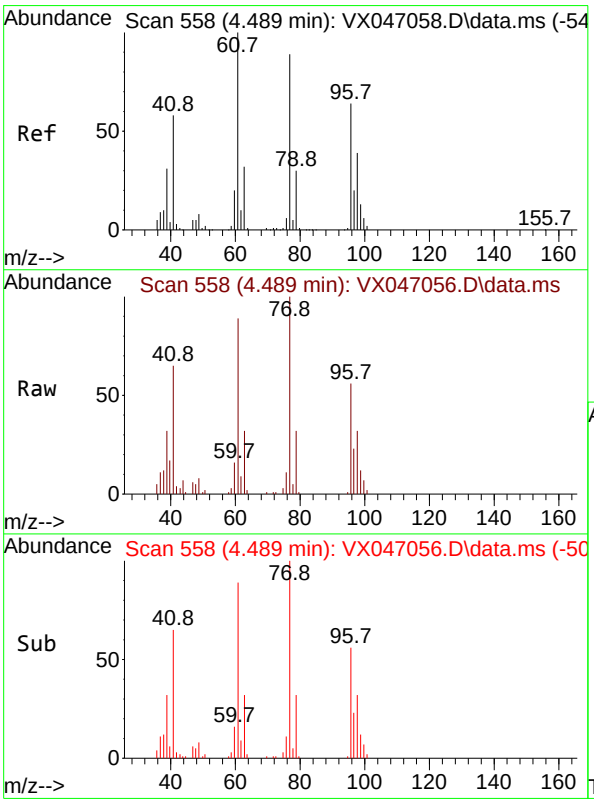
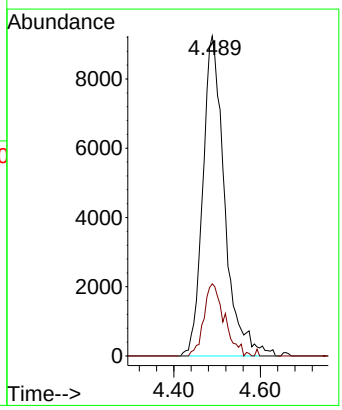
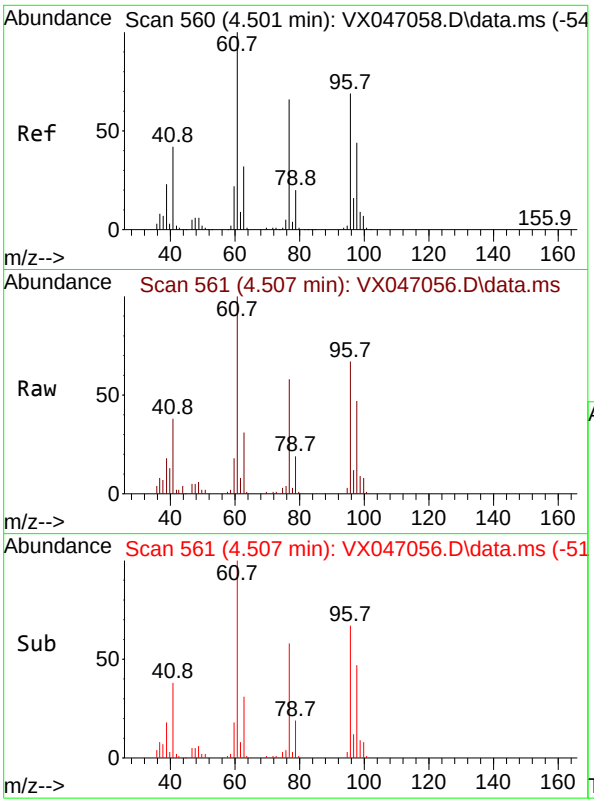


#26
2,2-Dichloropropane
Concen: 5.378 ug/l
RT: 4.489 min Scan# 558
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 77 Resp: 32298

Ion	Ratio	Lower	Upper
77	100		
97	21.4	11.4	34.1

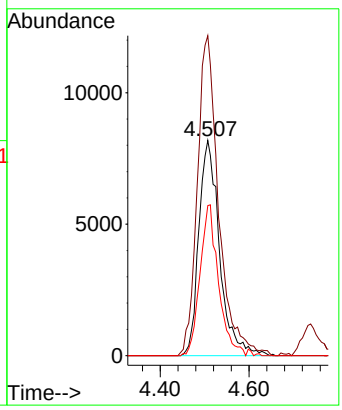




#27
cis-1,2-Dichloroethene
Concen: 5.463 ug/l
RT: 4.507 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 96 Resp: 2657

Ion	Ratio	Lower	Upper
96	100		
61	152.0	0.0	298.6
98	62.5	0.0	128.8



Instrument :
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ClientSampleId :
VSTDICC005

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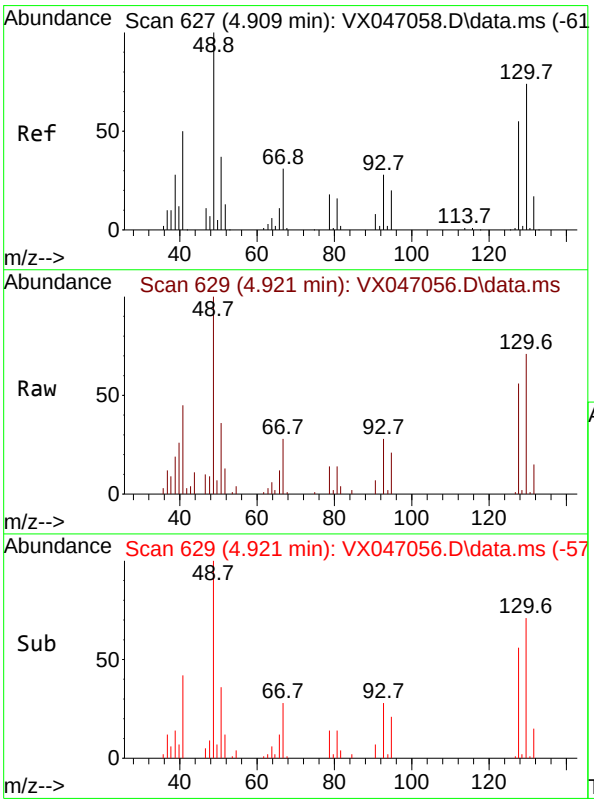
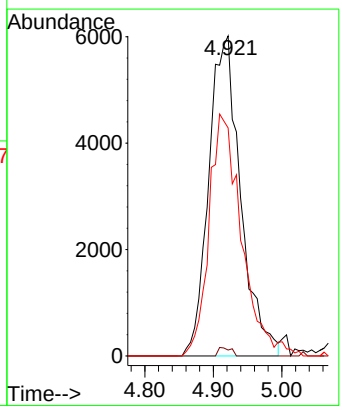
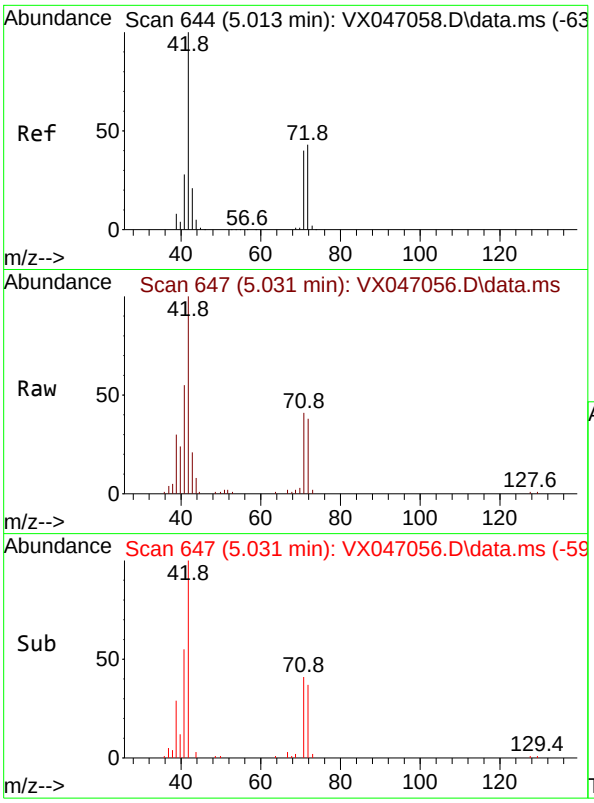


#28
Bromochloromethane
Concen: 5.445 ug/l
RT: 4.921 min Scan# 629
Delta R.T. 0.012 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 49 Resp: 19435

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.8
130	77.0	59.0	88.4

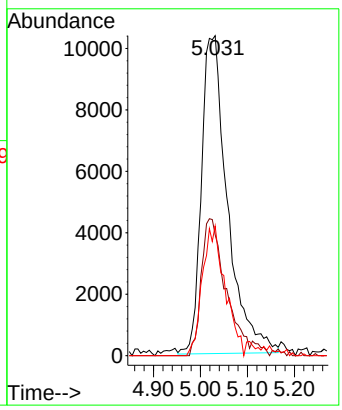




#29
Tetrahydrofuran
Concen: 26.631 ug/l
RT: 5.031 min Scan# 64
Delta R.T. 0.018 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 42 Resp: 3988

Ion	Ratio	Lower	Upper
42	100		
72	39.9	33.7	50.5
71	35.4	31.0	46.4



Instrument :
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ClientSampleId :
VSTDICC005

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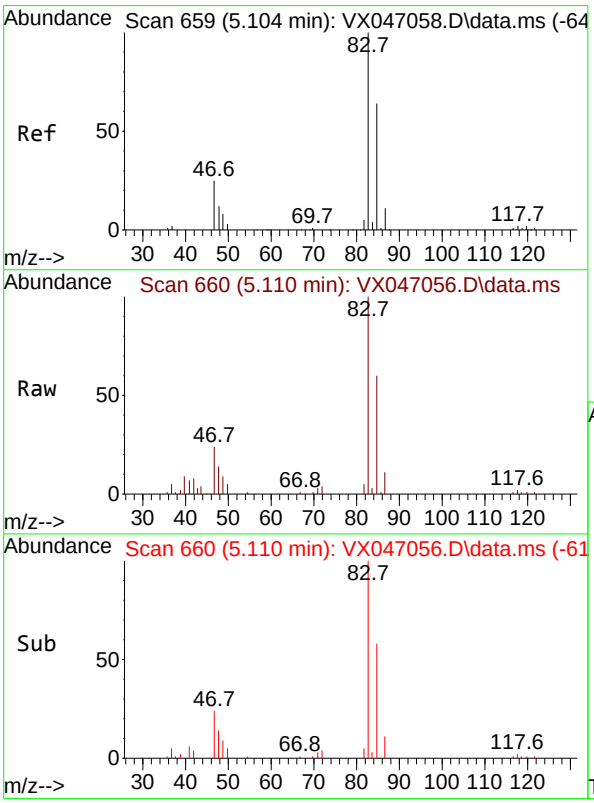
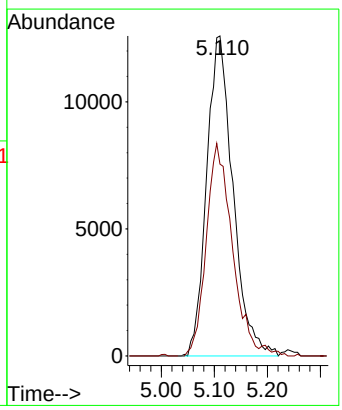
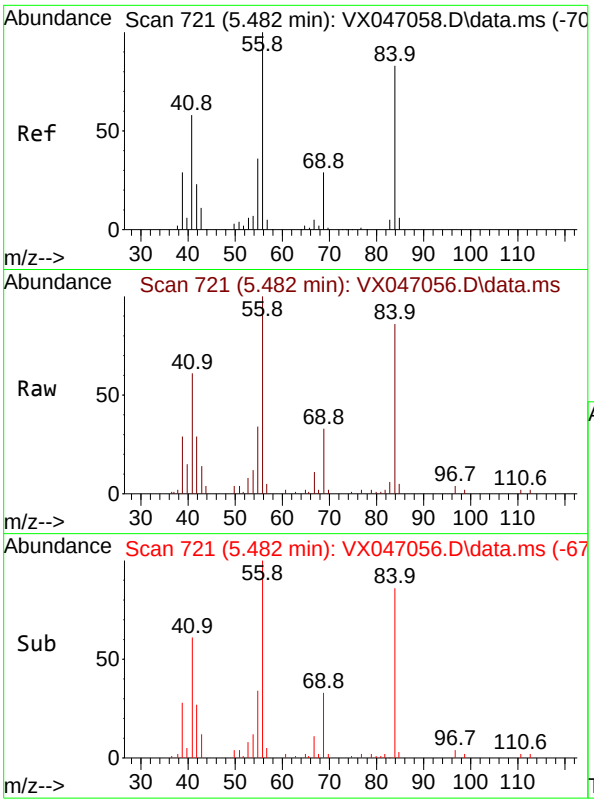


#30
Chloroform
Concen: 5.487 ug/l
RT: 5.110 min Scan# 660
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 83 Resp: 43336

Ion	Ratio	Lower	Upper
83	100		
85	58.1	50.9	76.3

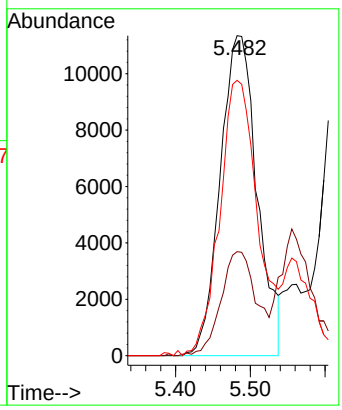




#31
Cyclohexane
Concen: 5.241 ug/l
RT: 5.482 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 56 Resp: 3899

Ion	Ratio	Lower	Upper
56	100		
69	31.0	23.3	34.9
84	80.5	66.5	99.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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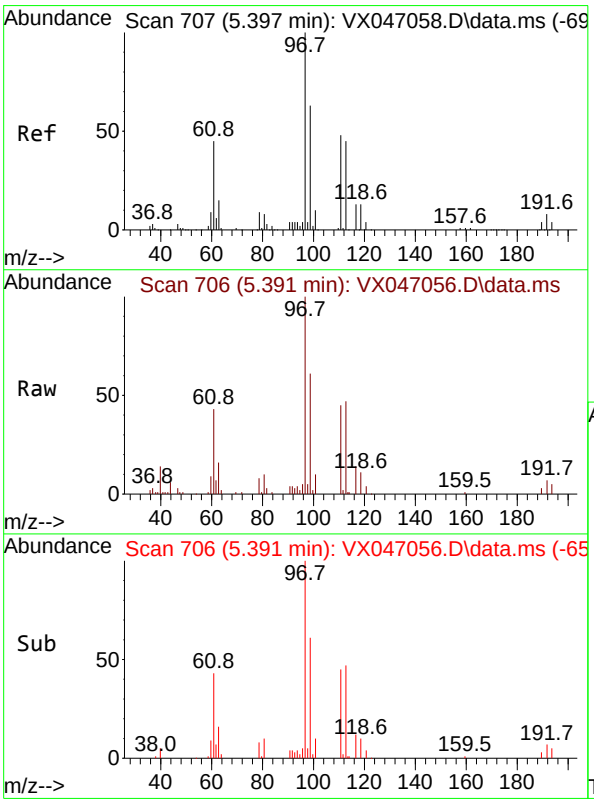
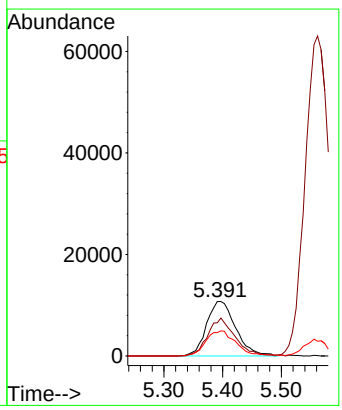
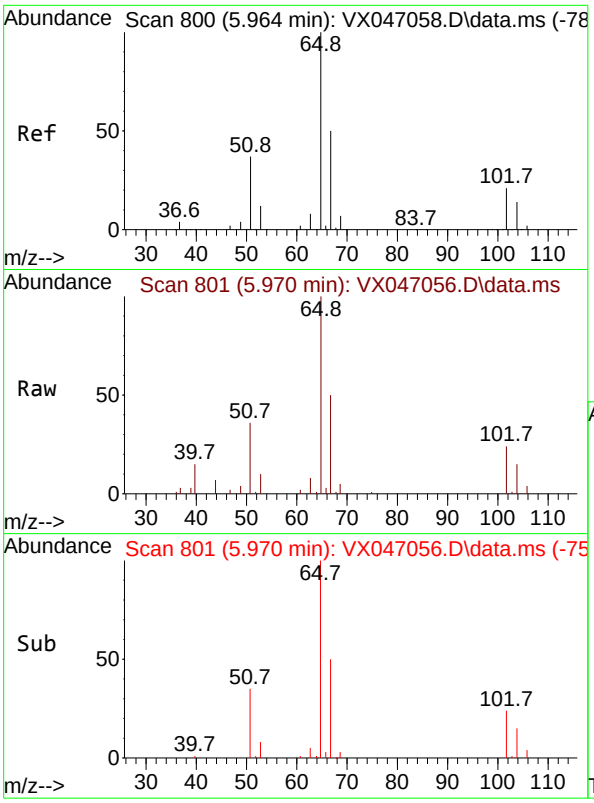


#32
1,1,1-Trichloroethane
Concen: 5.382 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 97 Resp: 36920

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.2	76.8
61	48.1	37.1	55.7

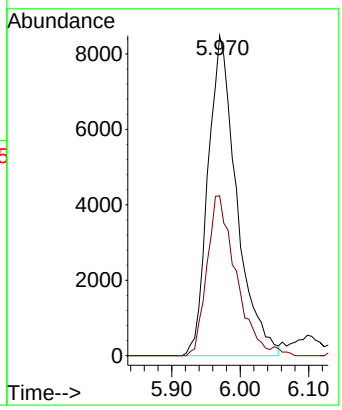




#33
1,2-Dichloroethane-d4
Concen: 6.169 ug/l
RT: 5.970 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 65 Resp: 2455

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	104.8



Instrument :
MSVOA_X
ClientSampleId :
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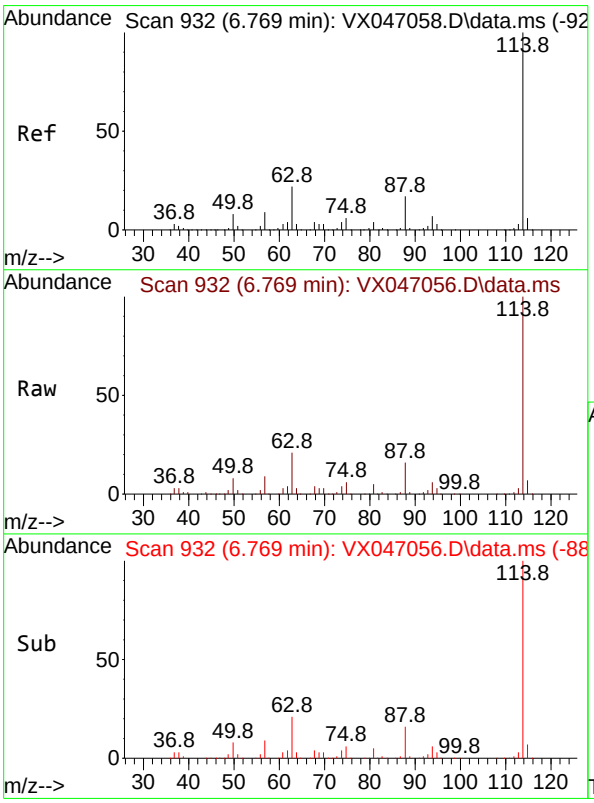
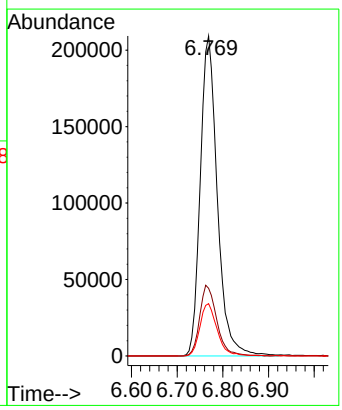
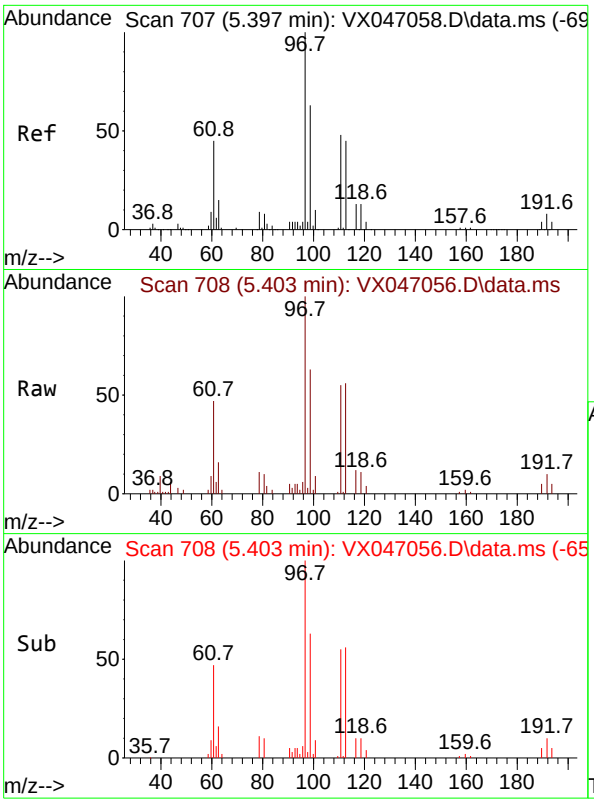


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:114 Resp: 542097

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	43.2
88	16.3	0.0	33.8

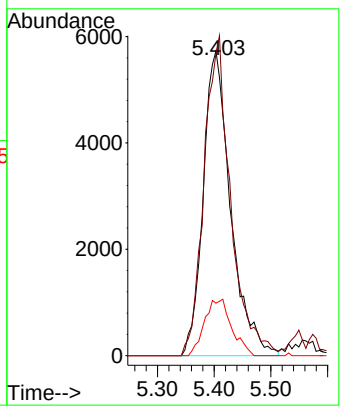




#35
Dibromofluoromethane
Concen: 5.749 ug/l
RT: 5.403 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:113 Resp: 1924

Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.6	124.0
192	18.3	14.9	22.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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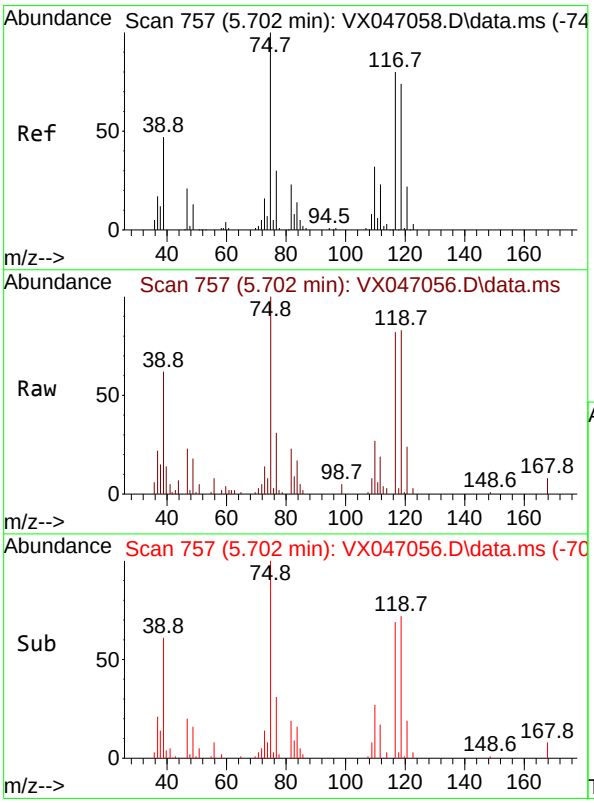
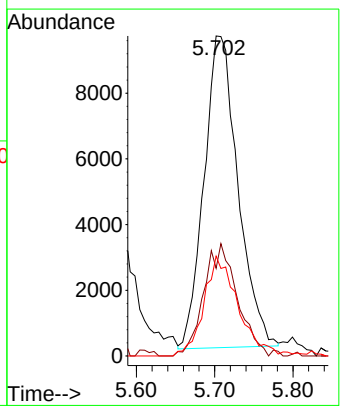
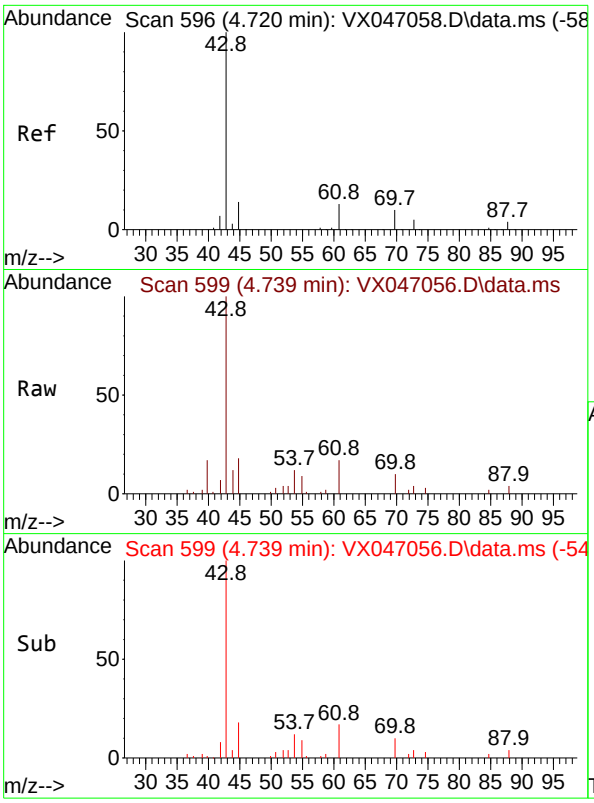


#36
1,1-Dichloropropene
Concen: 5.011 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 28590

Ion	Ratio	Lower	Upper
75	100		
110	35.4	17.2	51.5
77	32.5	25.1	37.7

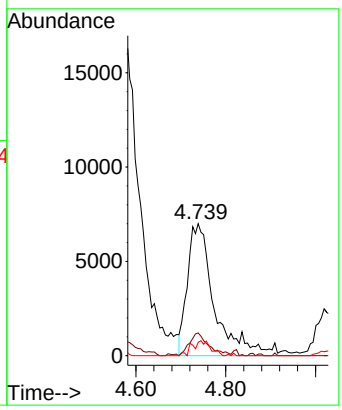




#37
Ethyl Acetate
Concen: 5.790 ug/l m
RT: 4.739 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 2911

Ion	Ratio	Lower	Upper
43	100		
61	12.2	10.2	15.2
70	5.4	8.1	12.1#



Instrument :
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ClientSampleId :
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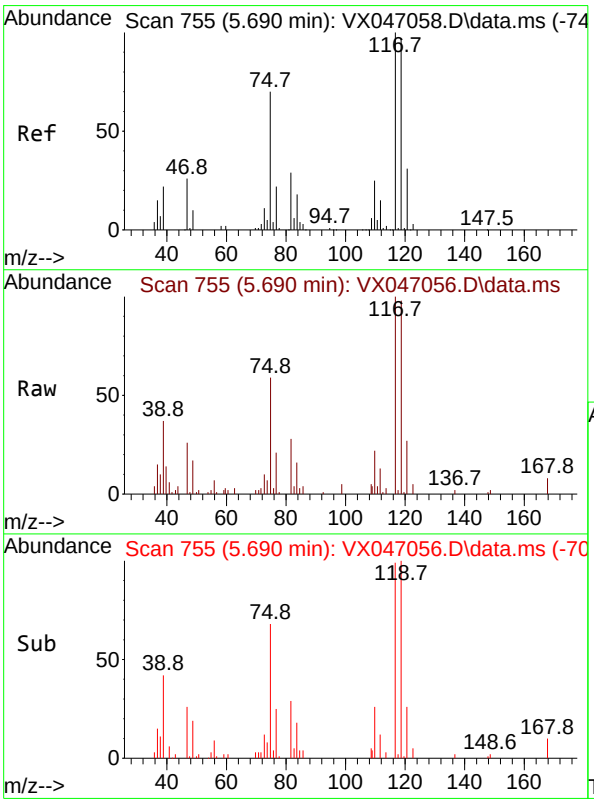
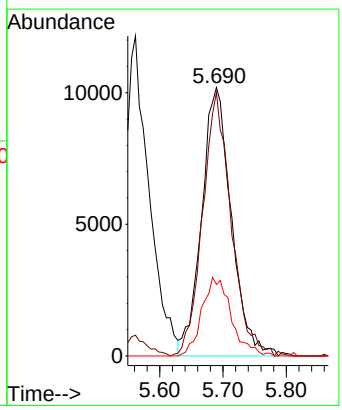
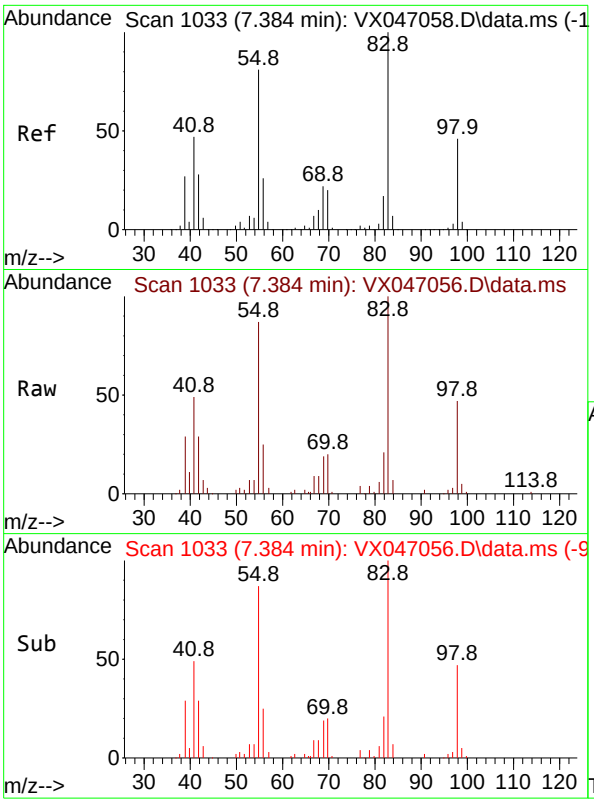


#38
Carbon Tetrachloride
Concen: 5.452 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:117 Resp: 33199

Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.6	115.0
121	26.7	24.4	36.6

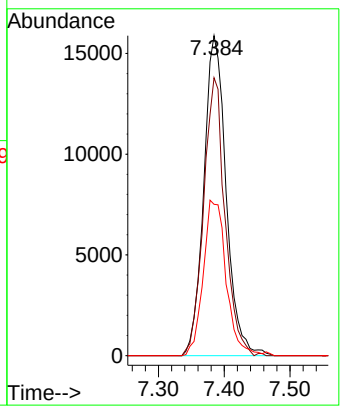




#39
Methylcyclohexane
Concen: 5.271 ug/l
RT: 7.384 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 83 Resp: 3754

Ion	Ratio	Lower	Upper
83	100		
55	86.9	64.5	96.7
98	47.3	36.9	55.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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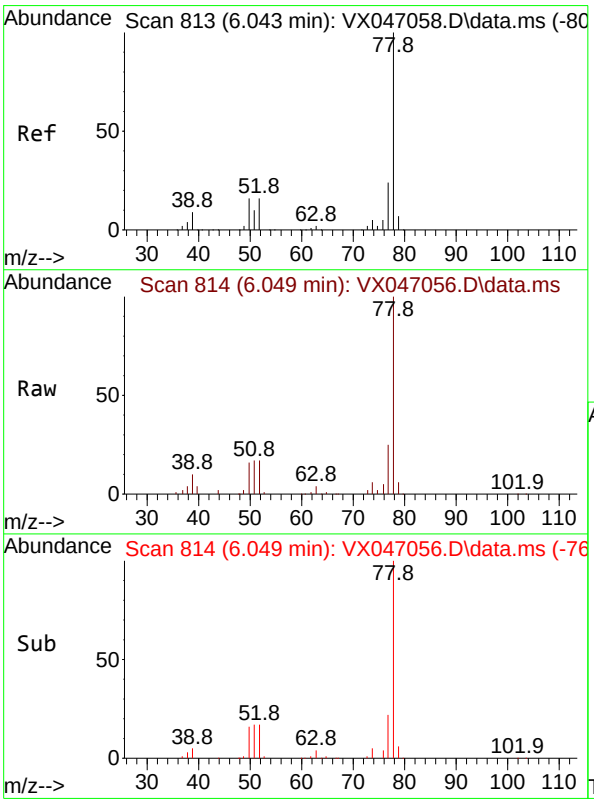
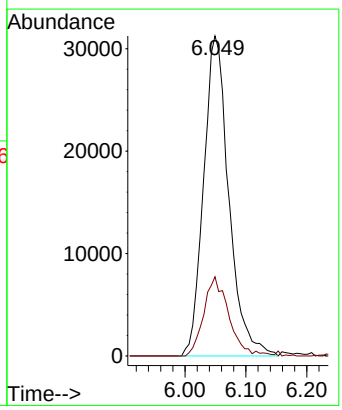
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

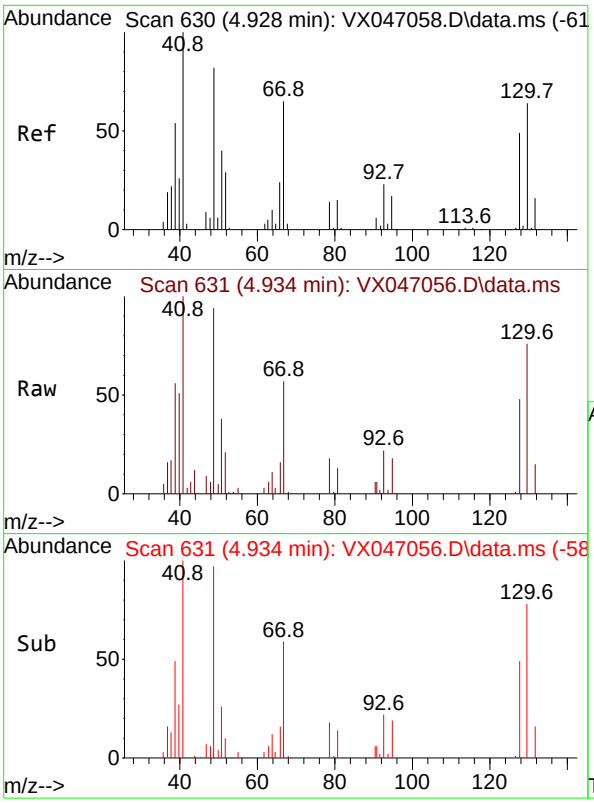


#40
Benzene
Concen: 5.438 ug/l
RT: 6.049 min Scan# 814
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 78 Resp: 89797

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.0	28.4

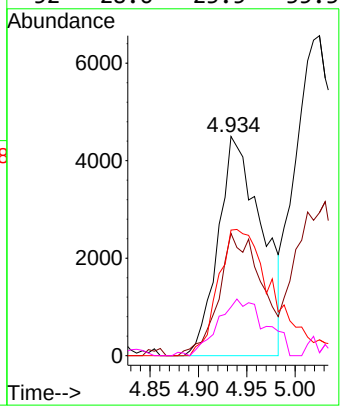




#41
Methacrylonitrile
Concen: 5.100 ug/l
RT: 4.934 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 41 Resp: 1401

Ion	Ratio	Lower	Upper
41	100		
39	54.6	44.2	66.2
67	73.8	56.4	84.6
52	28.6	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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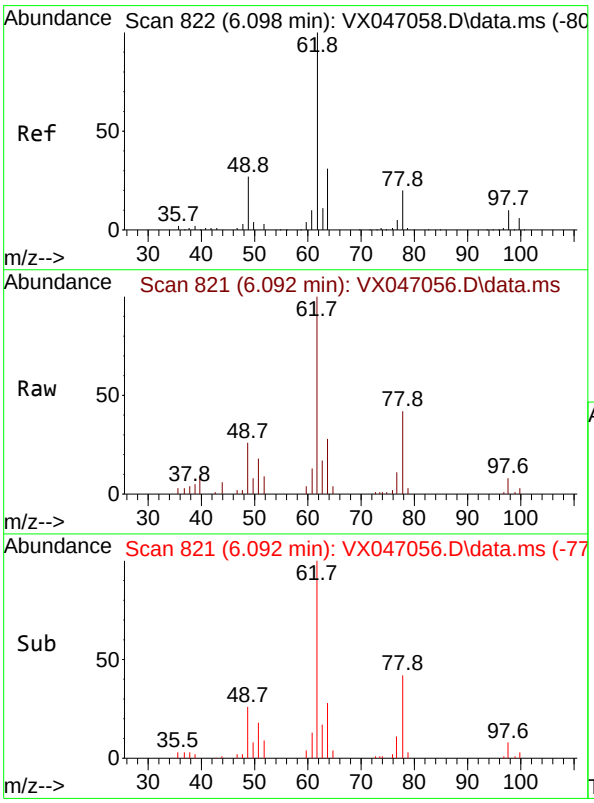
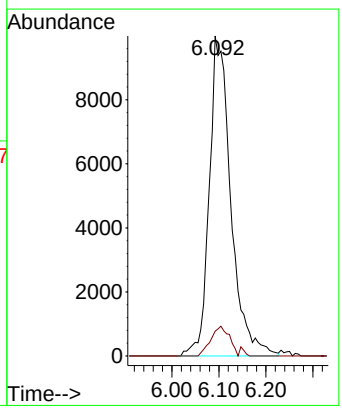
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

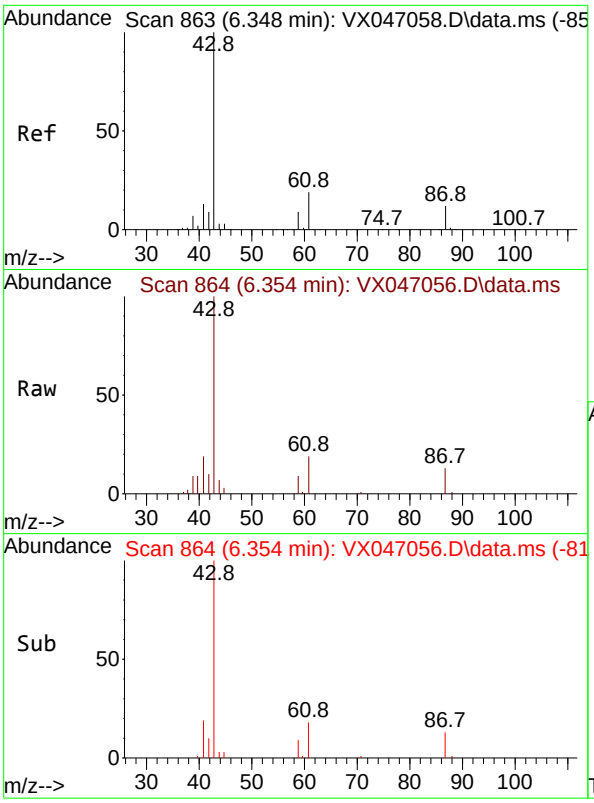


#42
1,2-Dichloroethane
Concen: 5.475 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 62 Resp: 31844

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	18.8

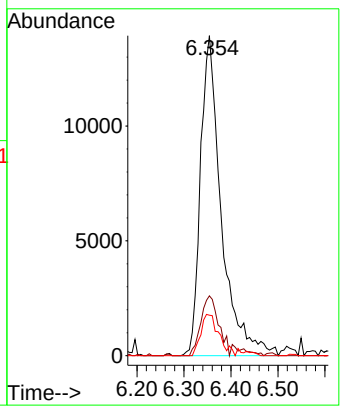




#43
Isopropyl Acetate
Concen: 5.240 ug/l
RT: 6.354 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 4294

Ion	Ratio	Lower	Upper
43	100		
61	15.9	15.1	22.7
87	11.1	9.7	14.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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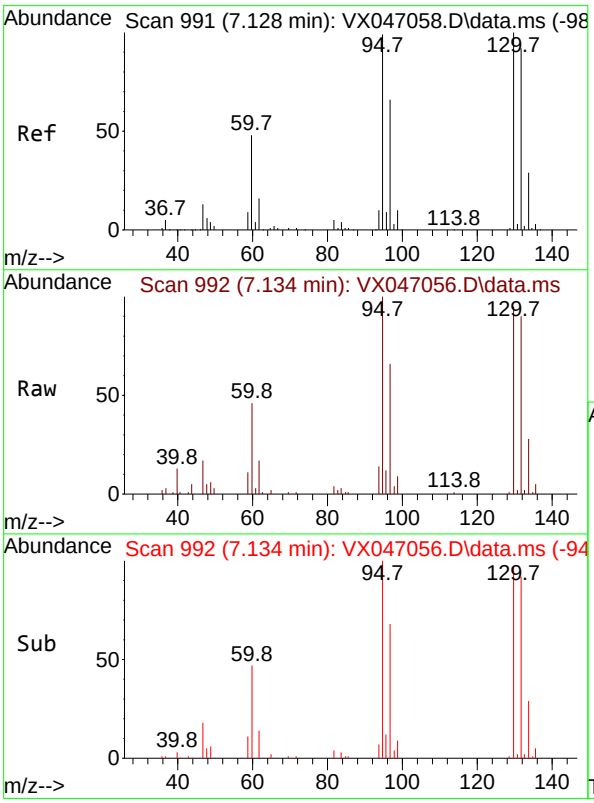
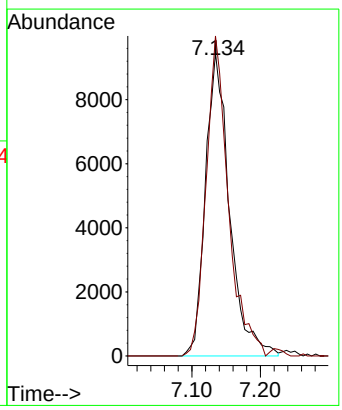
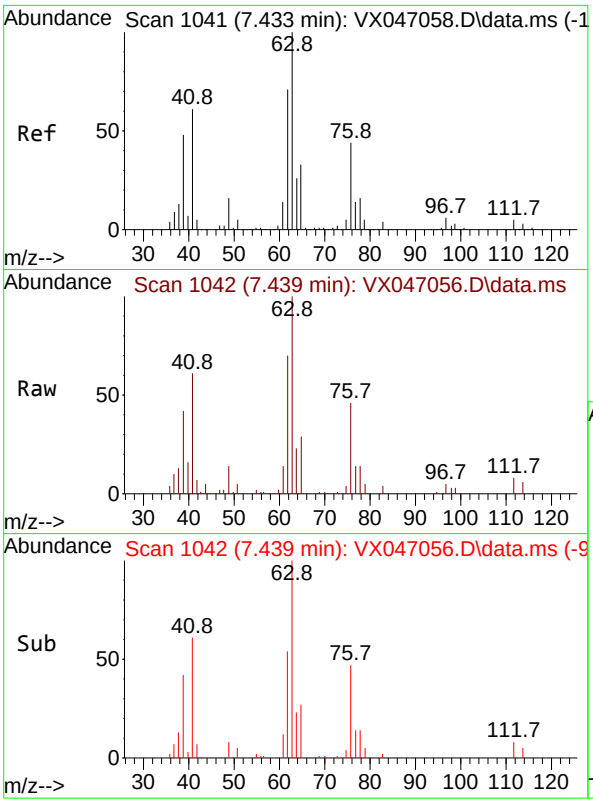


#44
Trichloroethene
Concen: 5.468 ug/l
RT: 7.134 min Scan# 992
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:130 Resp: 23153

Ion	Ratio	Lower	Upper
130	100		
95	117.9	0.0	198.6

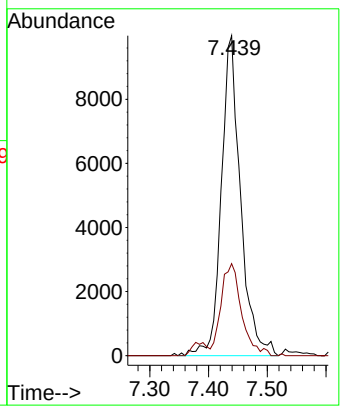




#45
1,2-Dichloropropane
Concen: 5.494 ug/l
RT: 7.439 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 63 Resp: 2272

Ion	Ratio	Lower	Upper
63	100		
65	28.7	26.3	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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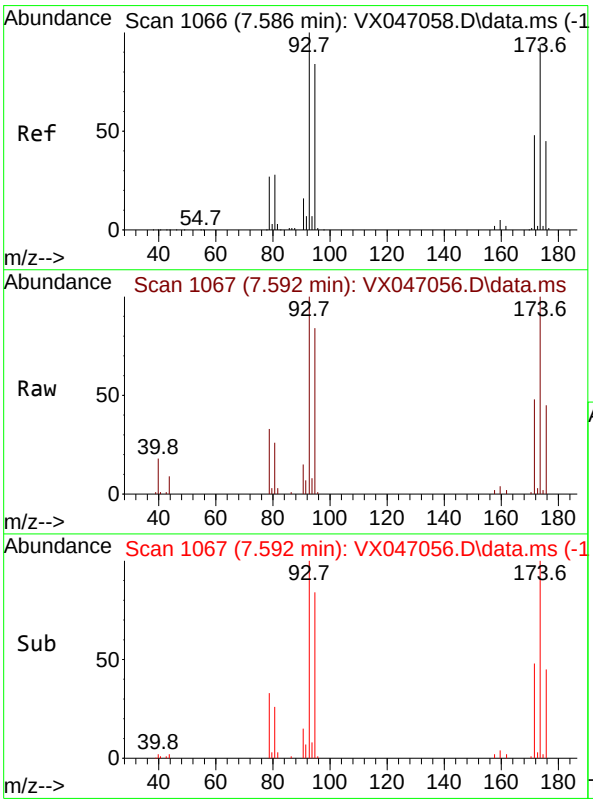
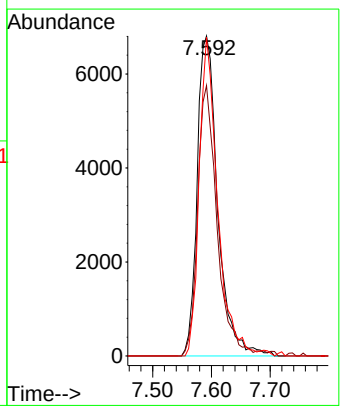
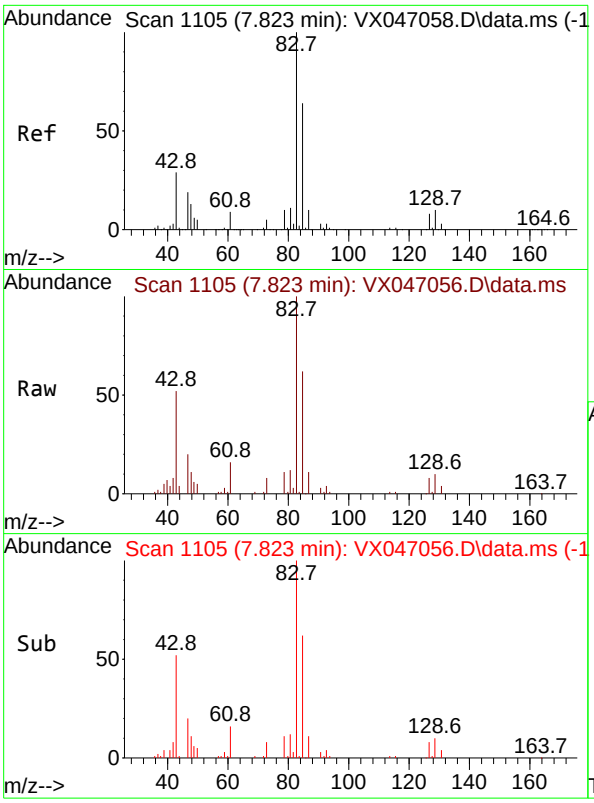


#46
Dibromomethane
Concen: 5.682 ug/l
RT: 7.592 min Scan# 1067
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 93 Resp: 16479

Ion	Ratio	Lower	Upper
93	100		
95	81.0	65.9	98.9
174	89.3	74.6	112.0

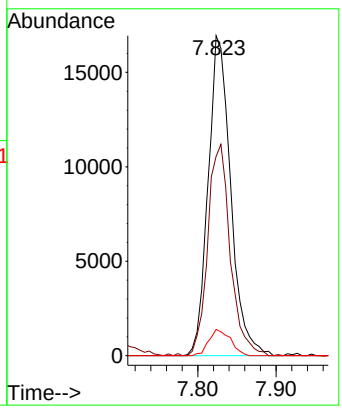




#47
Bromodichloromethane
Concen: 5.498 ug/l
RT: 7.823 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 83 Resp: 3393

Ion	Ratio	Lower	Upper
83	100		
85	61.6	49.9	74.9
127	8.1	6.6	10.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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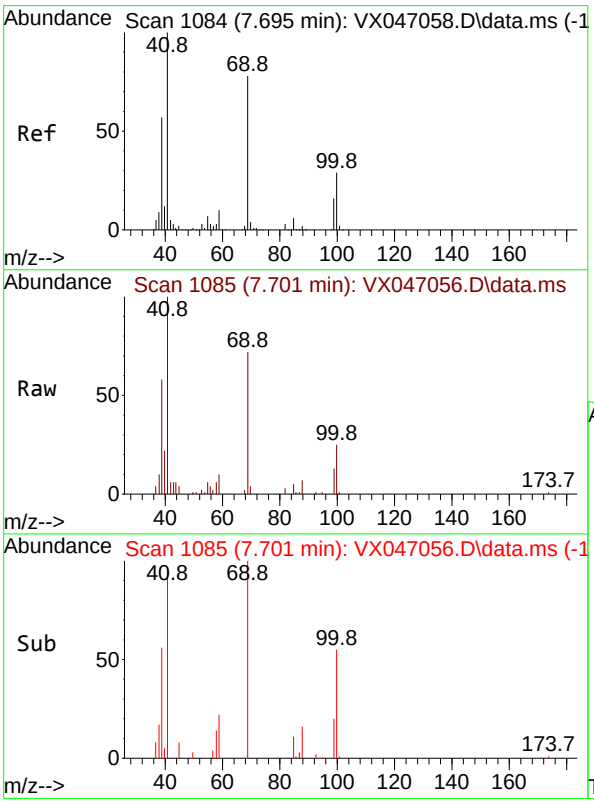
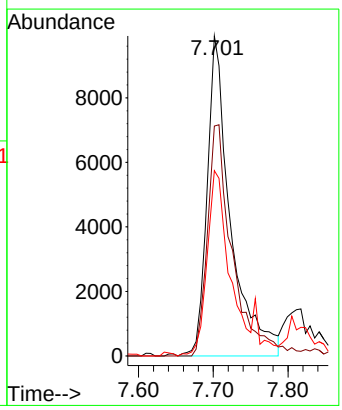
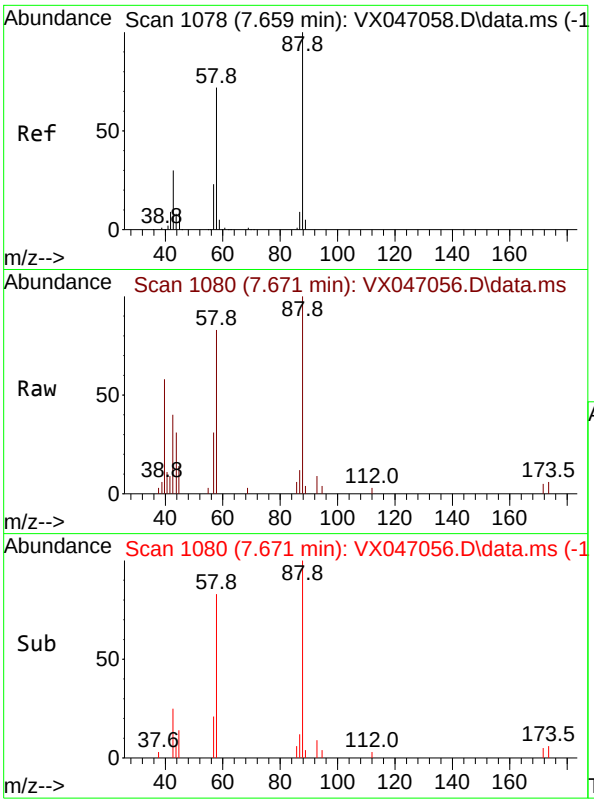


#48
Methyl methacrylate
Concen: 4.851 ug/l
RT: 7.701 min Scan# 1085
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 41 Resp: 21660

Ion	Ratio	Lower	Upper
41	100		
69	77.3	62.3	93.5
39	54.8	44.8	67.2





#49
1,4-Dioxane
Concen: 109.271 ug/l
RT: 7.671 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 88 Resp: 554

Ion	Ratio	Lower	Upper
88	100		
43	29.5	33.6	50.4
58	74.7	58.8	88.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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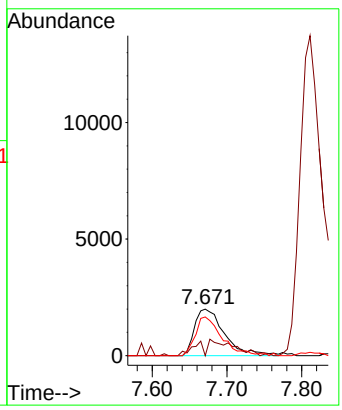
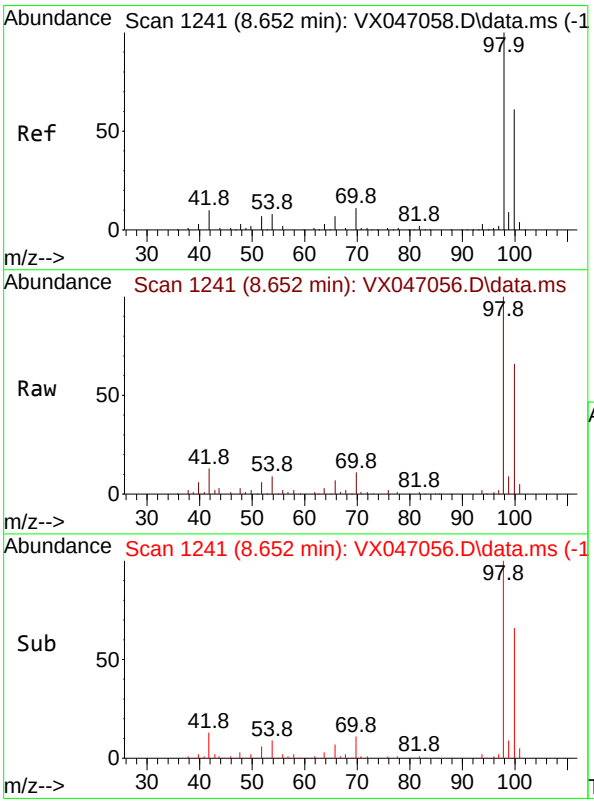
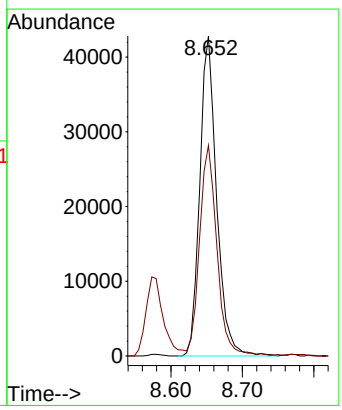


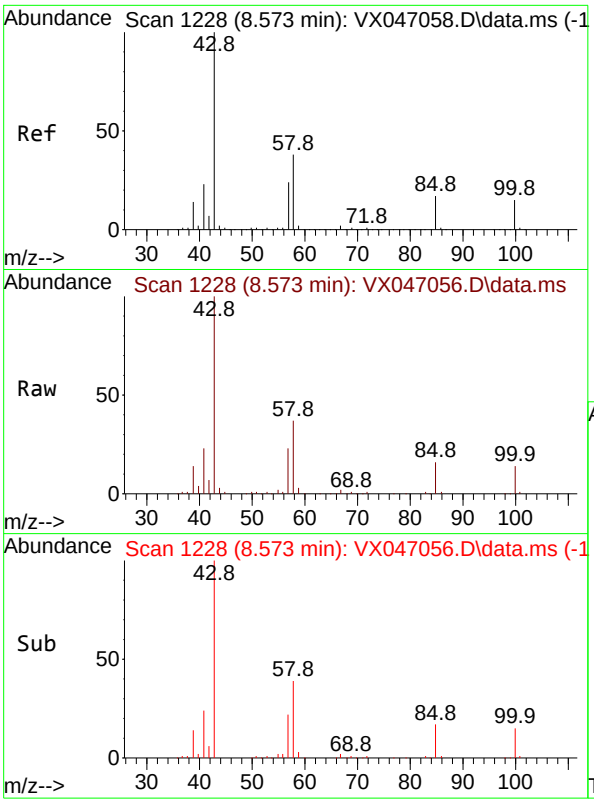


#50
Toluene-d8
Concen: 6.465 ug/l
RT: 8.652 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 98 Resp: 70081

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.3	79.9

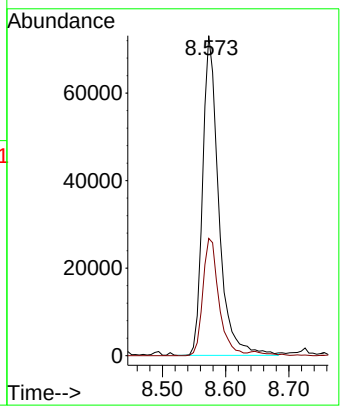




#51
4-Methyl-2-Pentanone
Concen: 26.565 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 12941

Ion	Ratio	Lower	Upper
43	100		
58	36.6	30.6	45.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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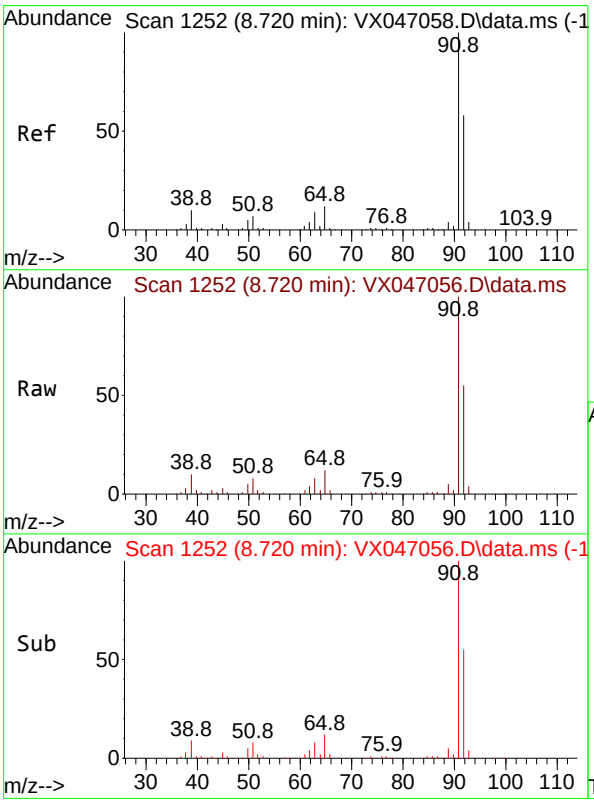
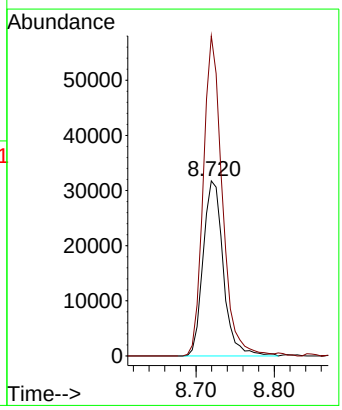
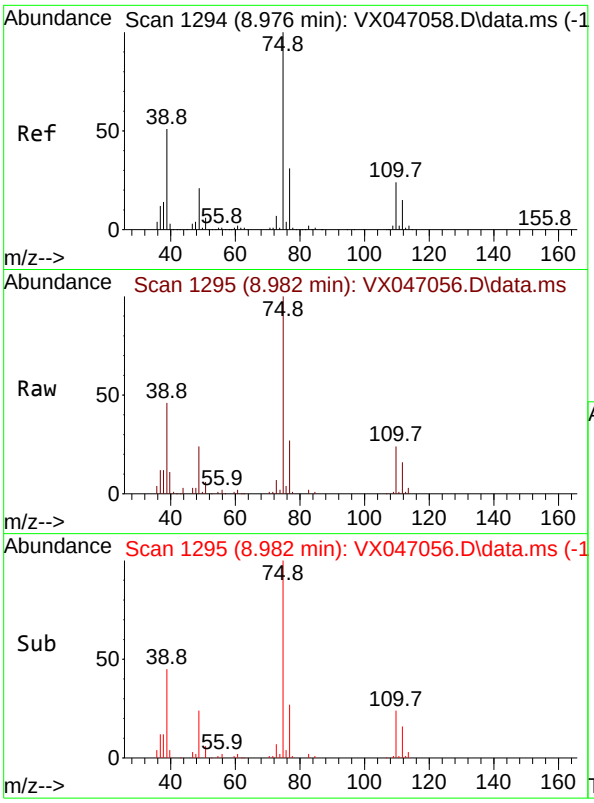


#52
Toluene
Concen: 5.592 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 92 Resp: 56775

Ion	Ratio	Lower	Upper
92	100		
91	171.9	137.9	206.9

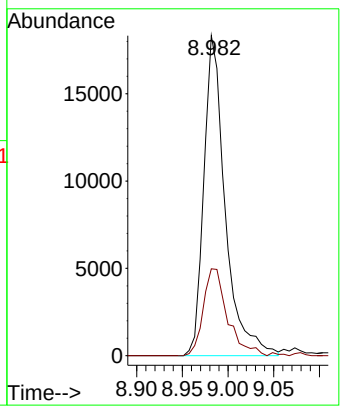




#53
t-1,3-Dichloropropene
Concen: 5.108 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 2977

Ion	Ratio	Lower	Upper
75	100		
77	27.1	24.5	36.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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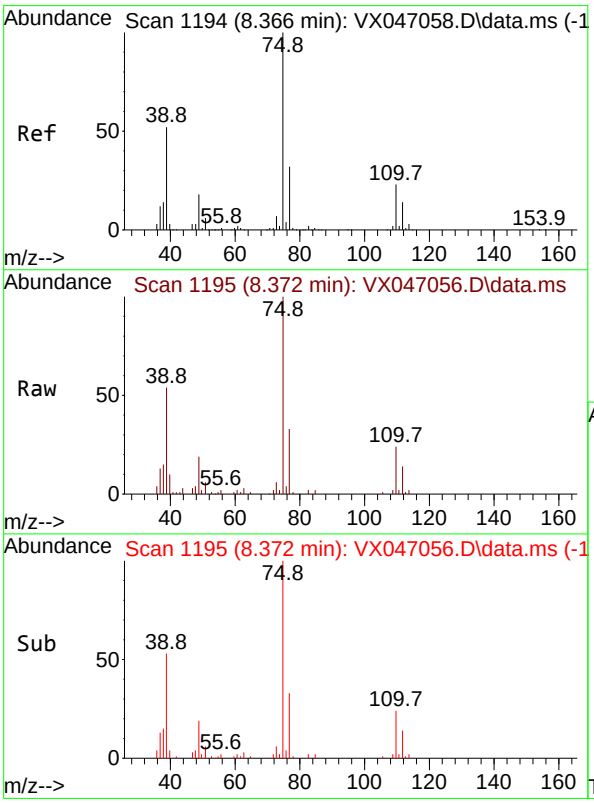
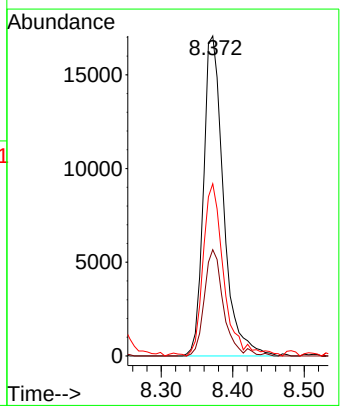
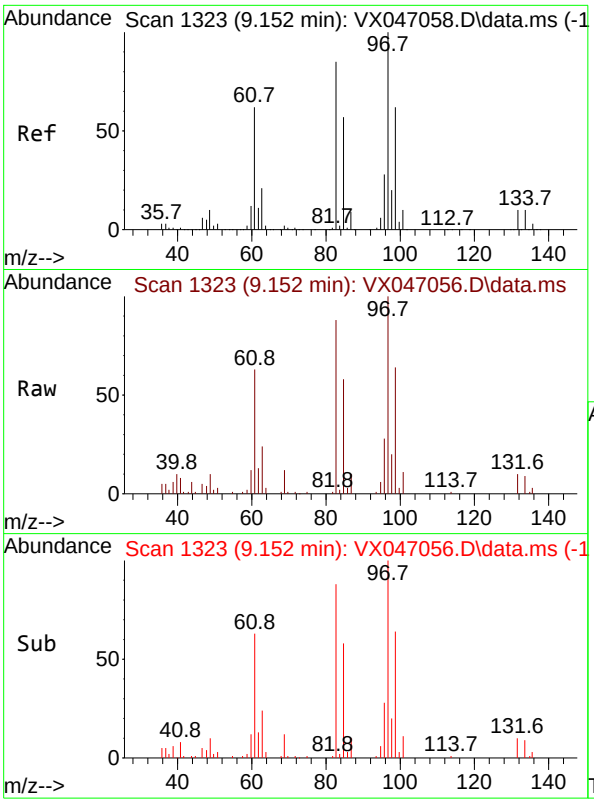


#54
cis-1,3-Dichloropropene
Concen: 5.193 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 33127

Ion	Ratio	Lower	Upper
75	100		
77	33.2	25.4	38.0
39	53.2	41.8	62.6

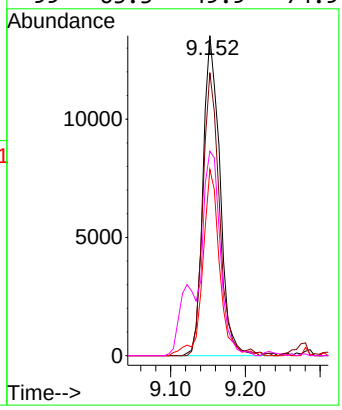




#55
1,1,2-Trichloroethane
Concen: 5.574 ug/l
RT: 9.152 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 97 Resp: 2122

Ion	Ratio	Lower	Upper
97	100		
83	88.4	68.0	102.0
85	58.2	45.2	67.8
99	63.3	49.9	74.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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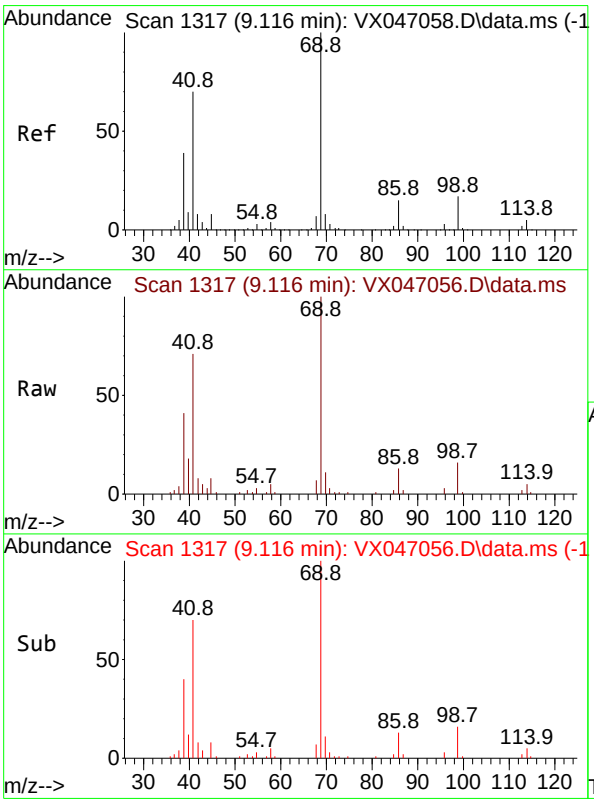
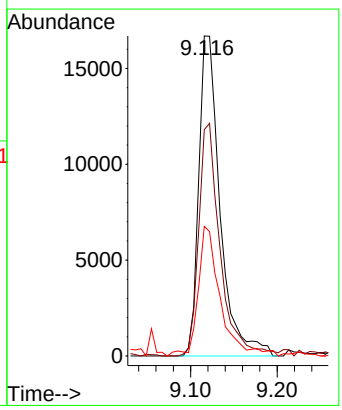
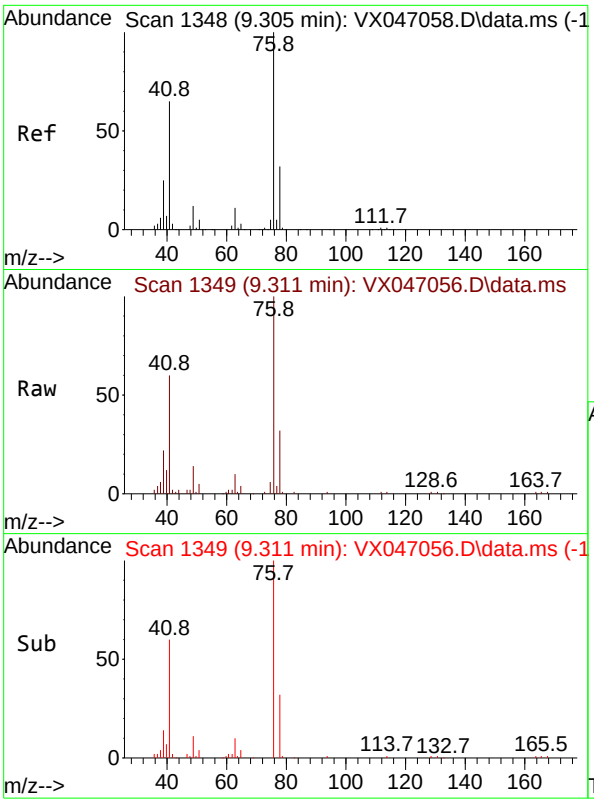


#56
Ethyl methacrylate
Concen: 5.072 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 69 Resp: 28587

Ion	Ratio	Lower	Upper
69	100		
41	72.7	56.1	84.1
39	42.1	31.1	46.7





#57
1,3-Dichloropropane
Concen: 5.629 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 76 Resp: 3725

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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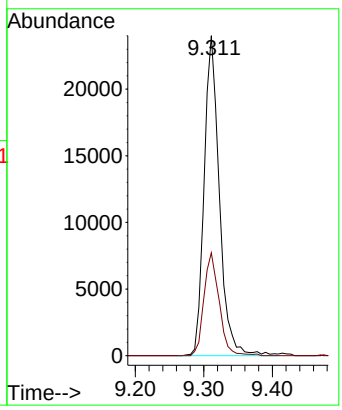
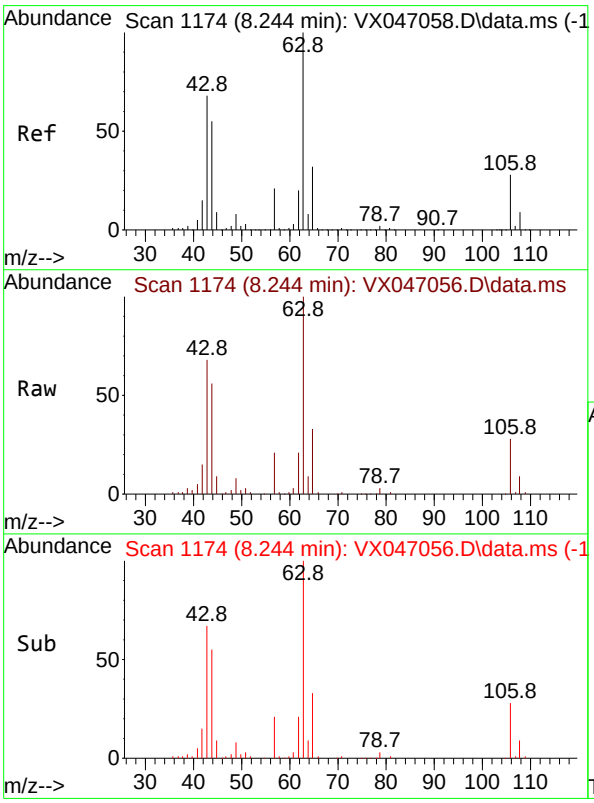
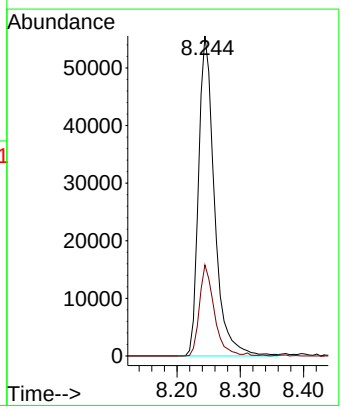


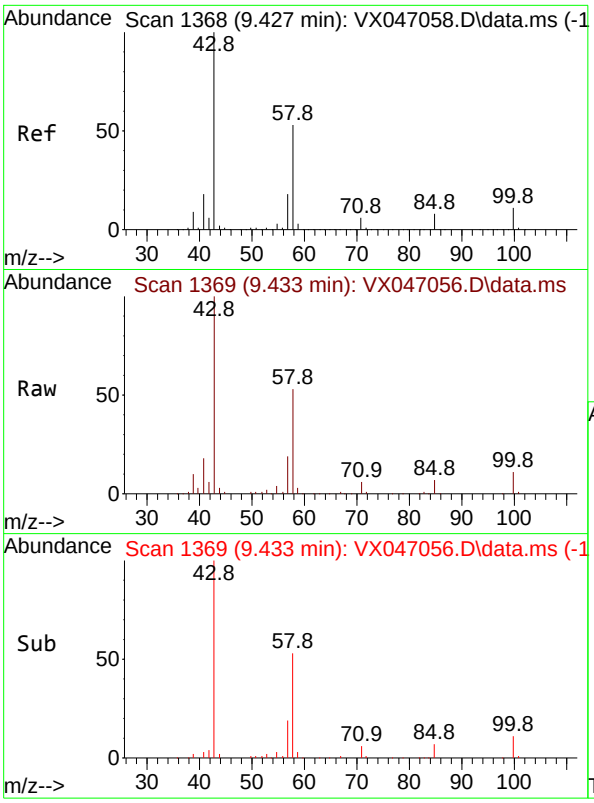


#58
2-Chloroethyl Vinyl ether
Concen: 31.066 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 63 Resp: 97443

Ion	Ratio	Lower	Upper
63	100		
106	26.7	22.2	33.4





#59
2-Hexanone
Concen: 26.276 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 8457

Ion	Ratio	Lower	Upper
43	100		
58	52.3	26.5	79.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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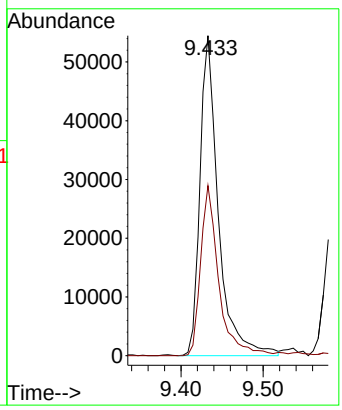
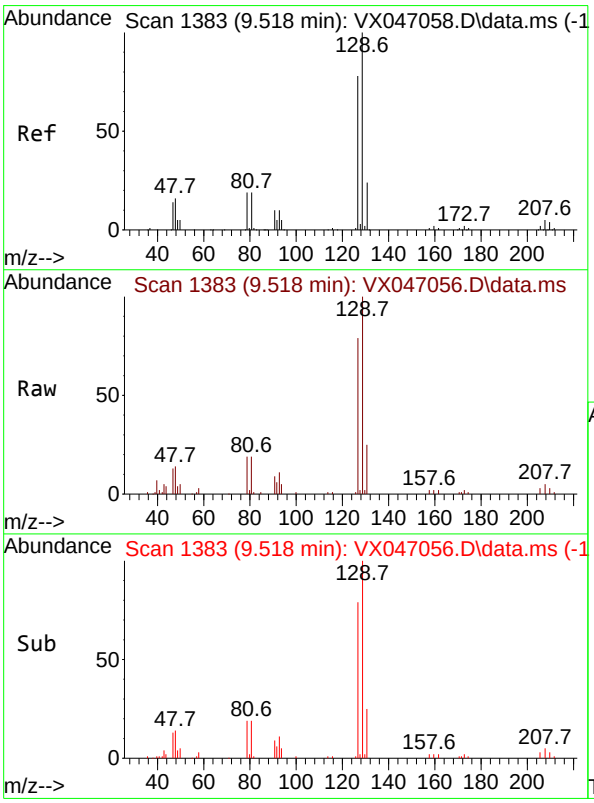
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

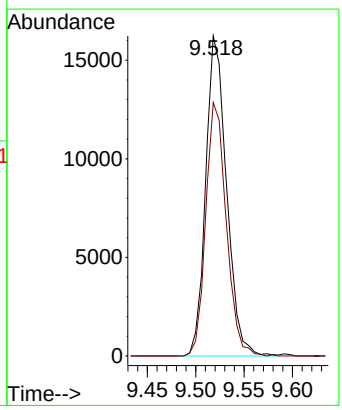


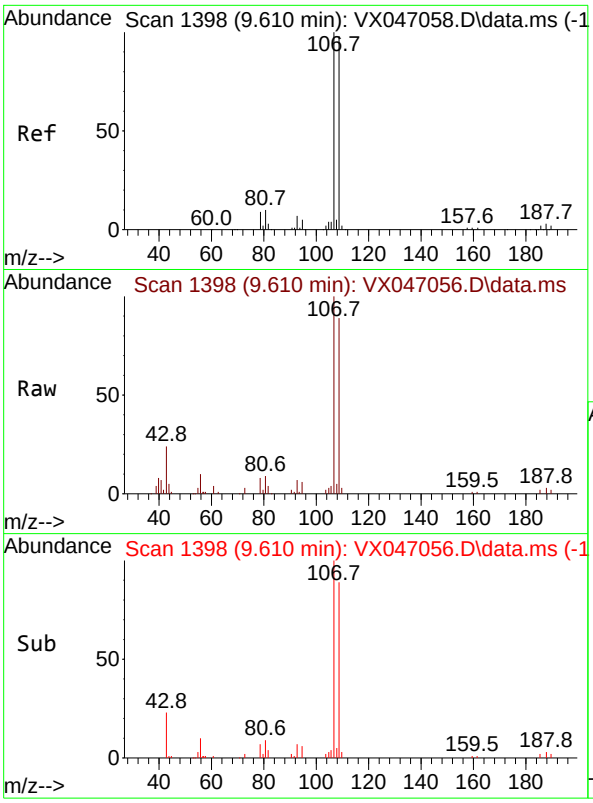


#60
Dibromochloromethane
Concen: 5.454 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:129 Resp: 24354

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.8

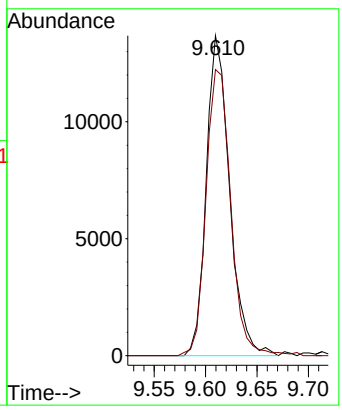




#61
1,2-Dibromoethane
Concen: 5.420 ug/l
RT: 9.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:107 Resp: 2157

Ion	Ratio	Lower	Upper
107	100		
109	95.2	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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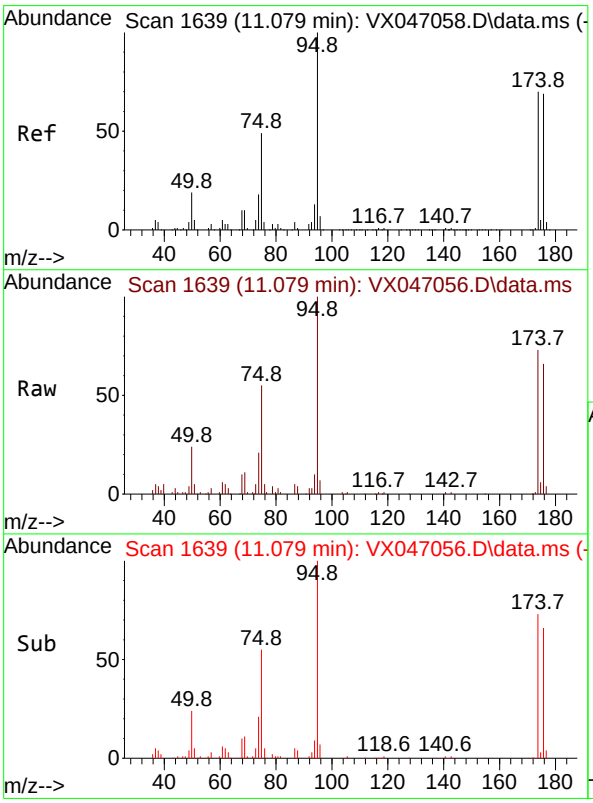
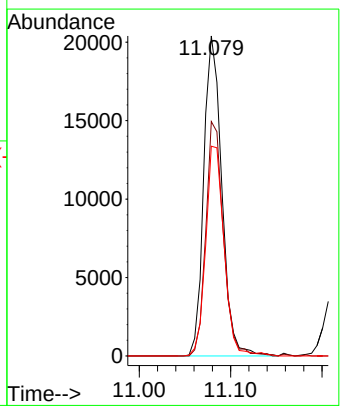
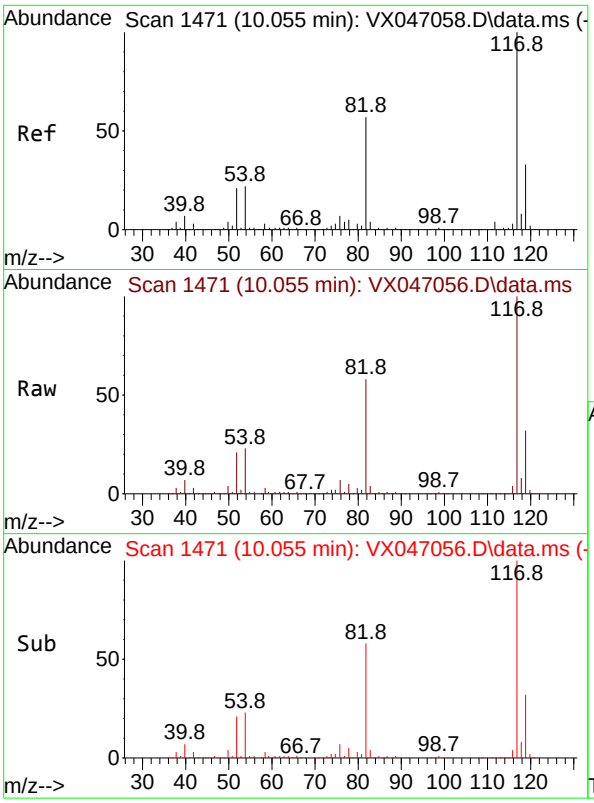


#62
4-Bromofluorobenzene
Concen: 5.968 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 95 Resp: 27880

Ion	Ratio	Lower	Upper
95	100		
174	71.5	0.0	144.6
176	67.1	0.0	139.6

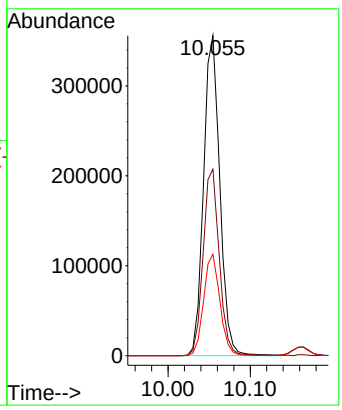




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:117 Resp: 48868

Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.4	68.2
119	31.7	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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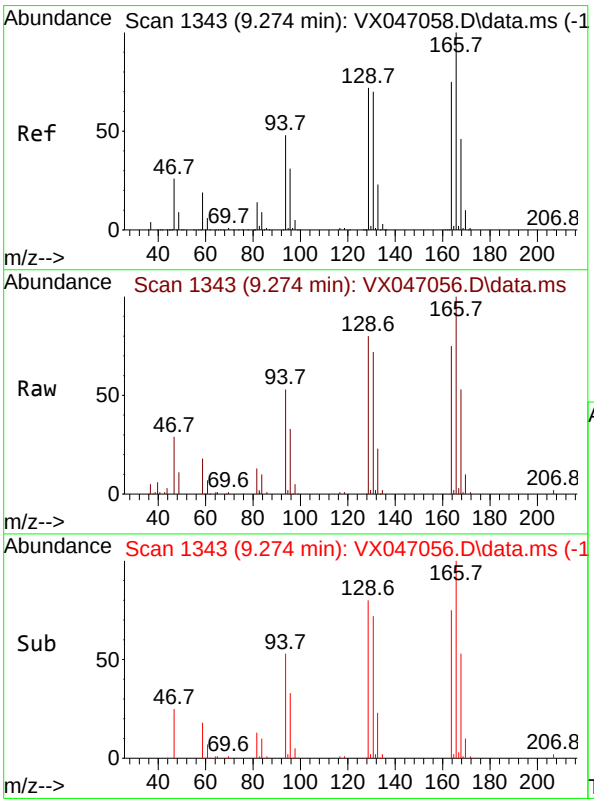
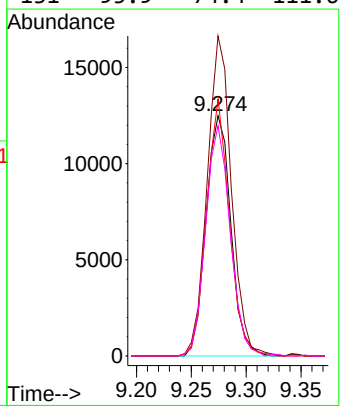
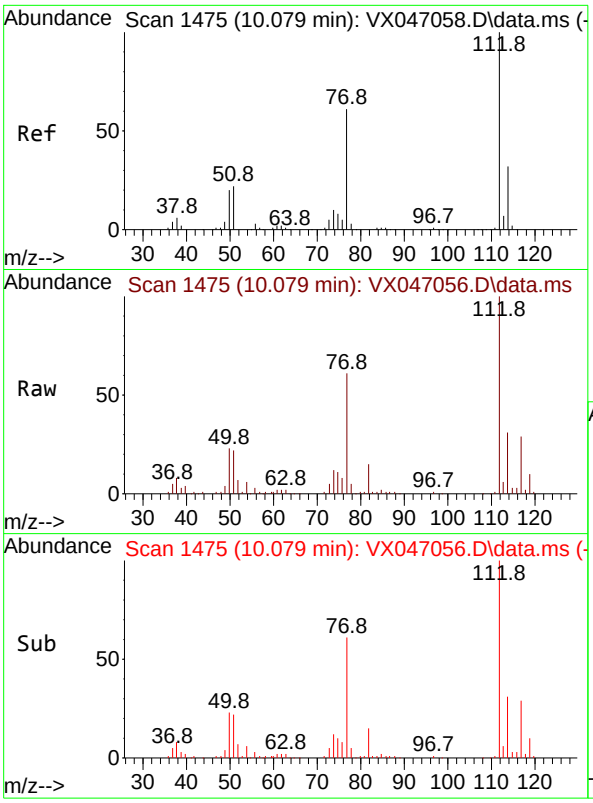


#64
Tetrachloroethene
Concen: 5.592 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:164 Resp: 19701

Ion	Ratio	Lower	Upper
164	100		
166	133.2	106.2	159.4
129	106.9	76.6	114.8
131	95.9	74.4	111.6

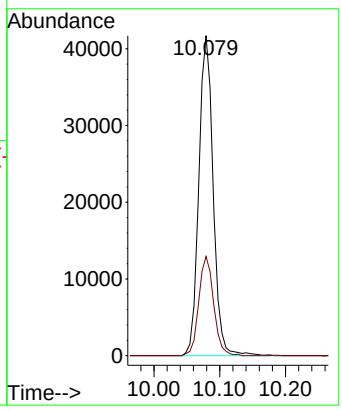




#65
Chlorobenzene
Concen: 5.526 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:112 Resp: 6326

Ion	Ratio	Lower	Upper
112	100		
114	31.0	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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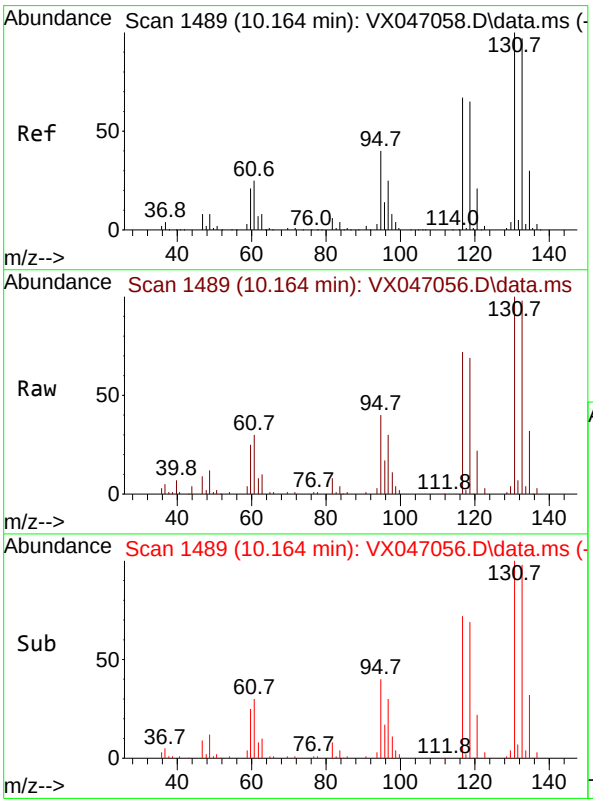
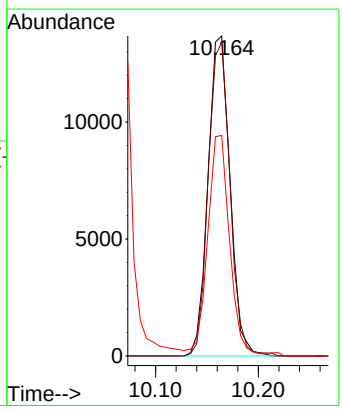
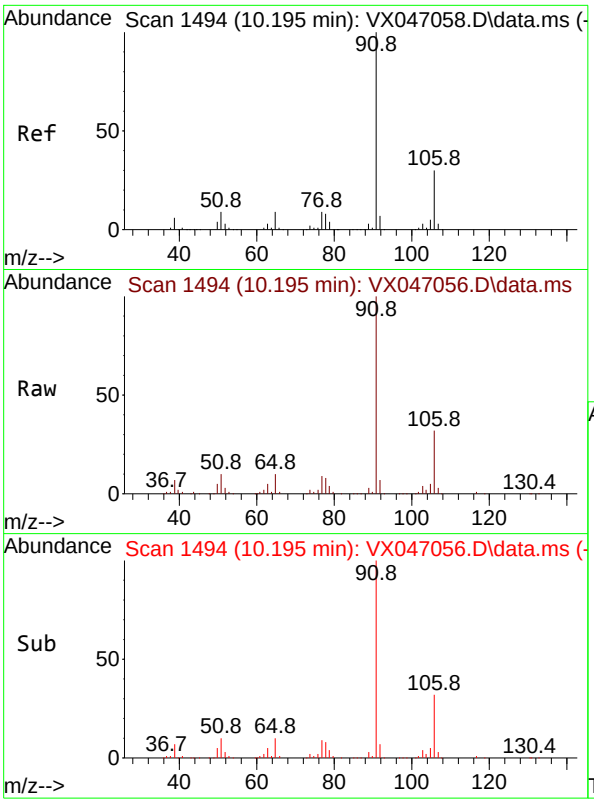


#66
1,1,1,2-Tetrachloroethane
Concen: 5.267 ug/l
RT: 10.164 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:131 Resp: 20300

Ion	Ratio	Lower	Upper
131	100		
133	97.1	48.4	145.3
119	66.9	32.4	97.0

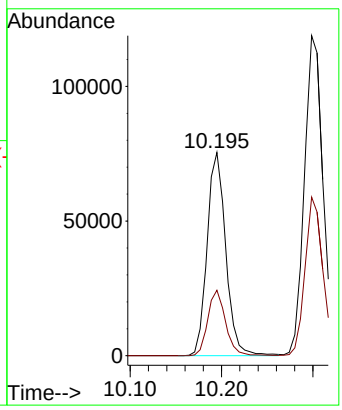




#67
Ethyl Benzene
Concen: 5.345 ug/l
RT: 10.195 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 91 Resp: 10698

Ion	Ratio	Lower	Upper
91	100		
106	32.2	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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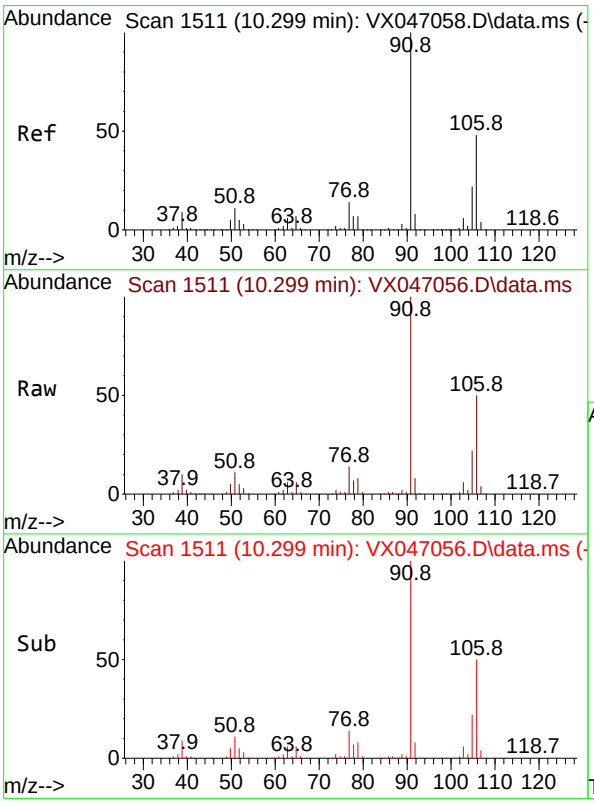
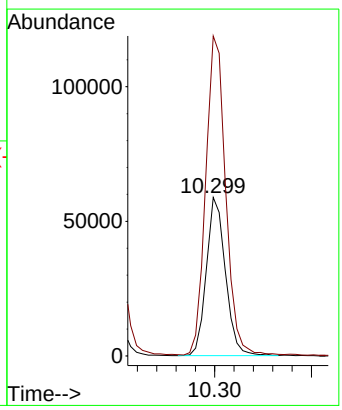
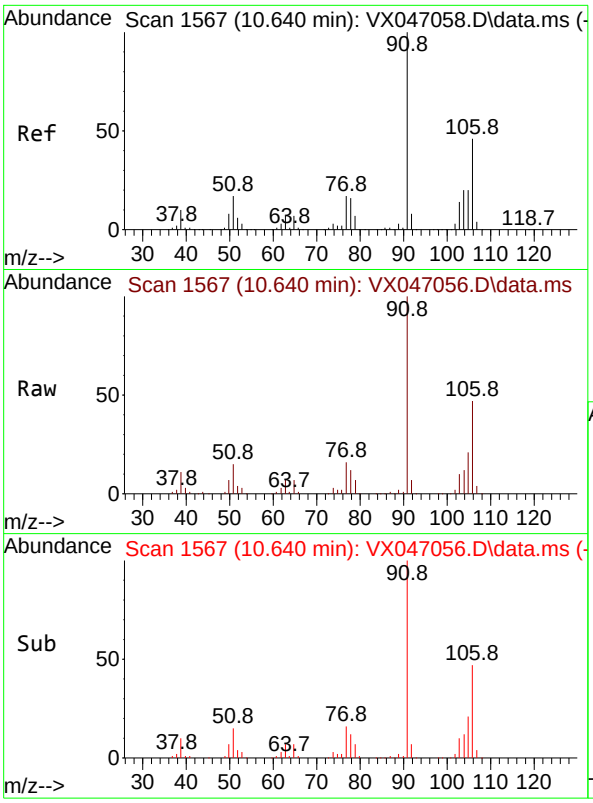


#68
m/p-Xylenes
Concen: 10.791 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:106 Resp: 80835

Ion	Ratio	Lower	Upper
106	100		
91	211.3	167.4	251.0

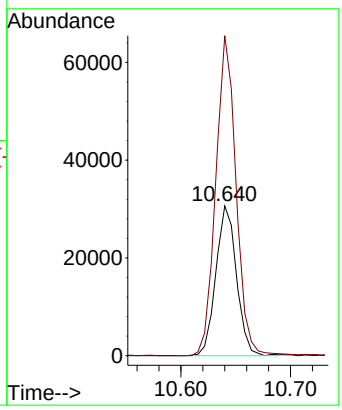




#69
o-Xylene
Concen: 5.623 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:106 Resp: 4007

Ion	Ratio	Lower	Upper
106	100		
91	211.4	110.3	331.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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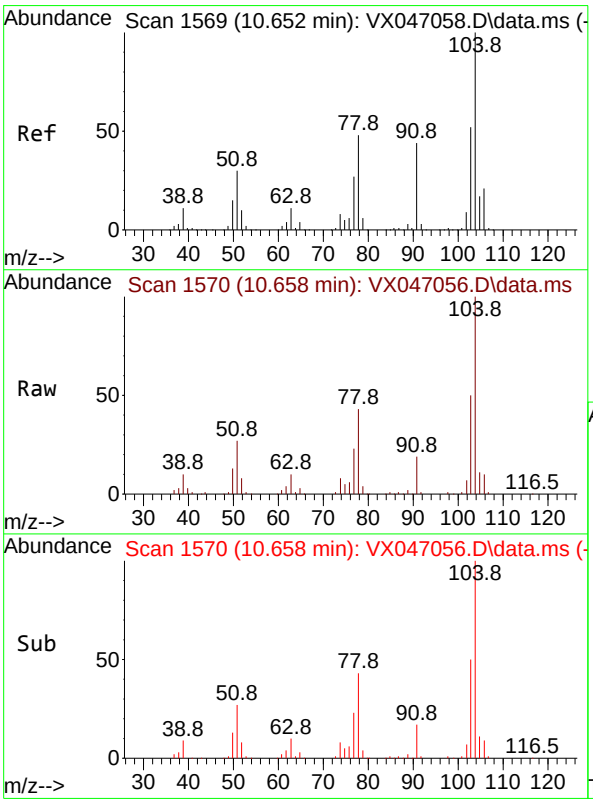
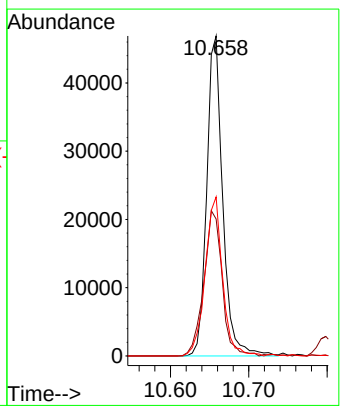
Supervised By :Mahesh Dadoda 07/22/2025

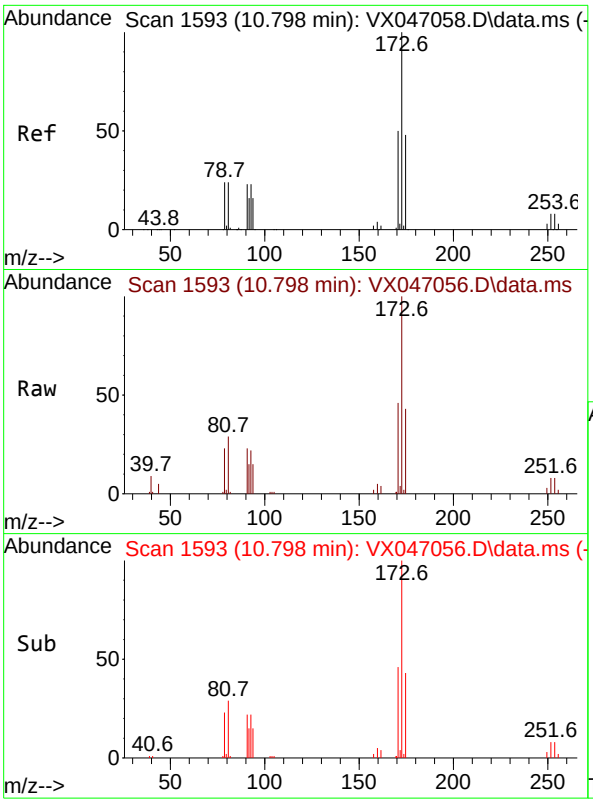


#70
Styrene
Concen: 5.424 ug/l
RT: 10.658 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:104 Resp: 66283

Ion	Ratio	Lower	Upper
104	100		
78	52.3	42.0	63.0
103	54.3	43.8	65.6

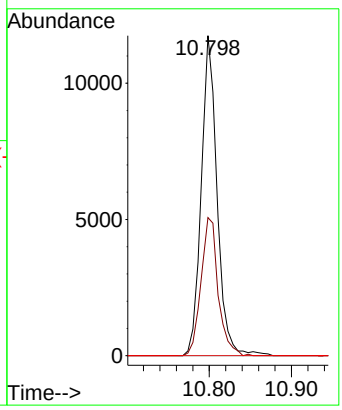




#71
Bromoform
Concen: 5.384 ug/l
RT: 10.798 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:173 Resp: 1576

Ion	Ratio	Lower	Upper
173	100		
175	46.6	24.2	72.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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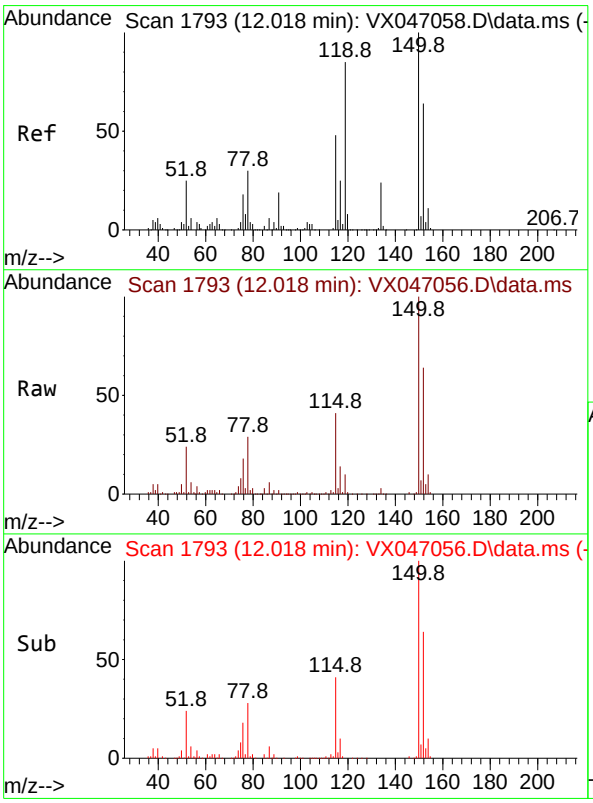
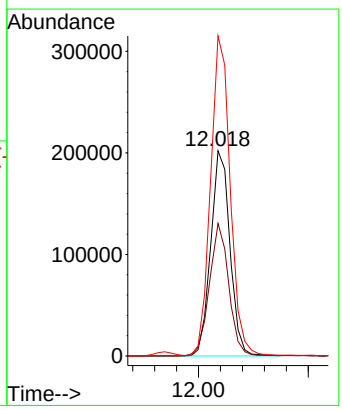
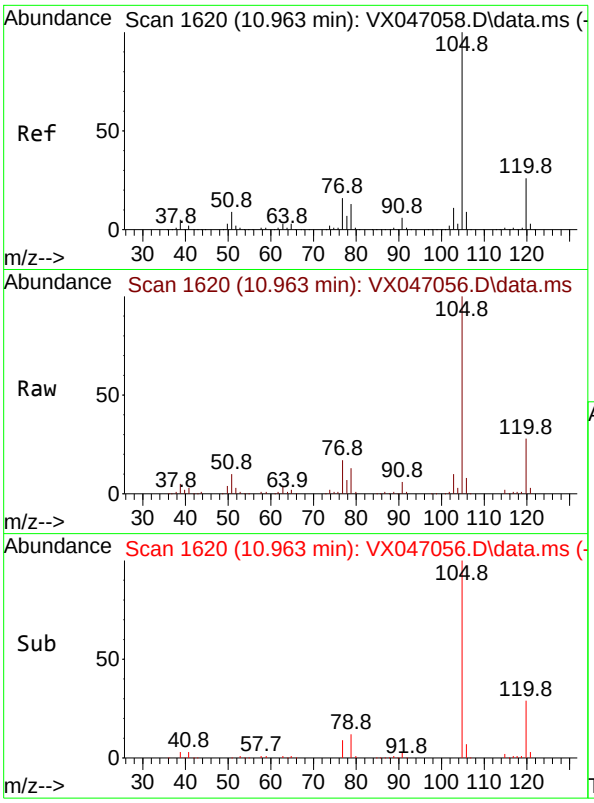


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:152 Resp: 246301

Ion	Ratio	Lower	Upper
152	100		
115	65.0	45.6	136.7
150	159.5	0.0	354.6

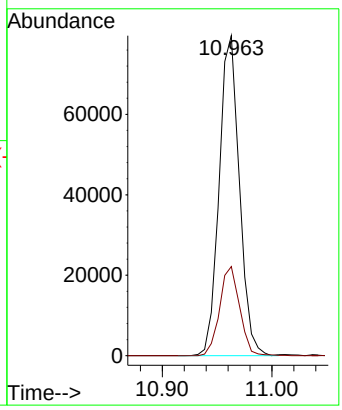




#73
Isopropylbenzene
Concen: 5.257 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:105 Resp: 10215

Ion	Ratio	Lower	Upper
105	100		
120	27.6	12.9	38.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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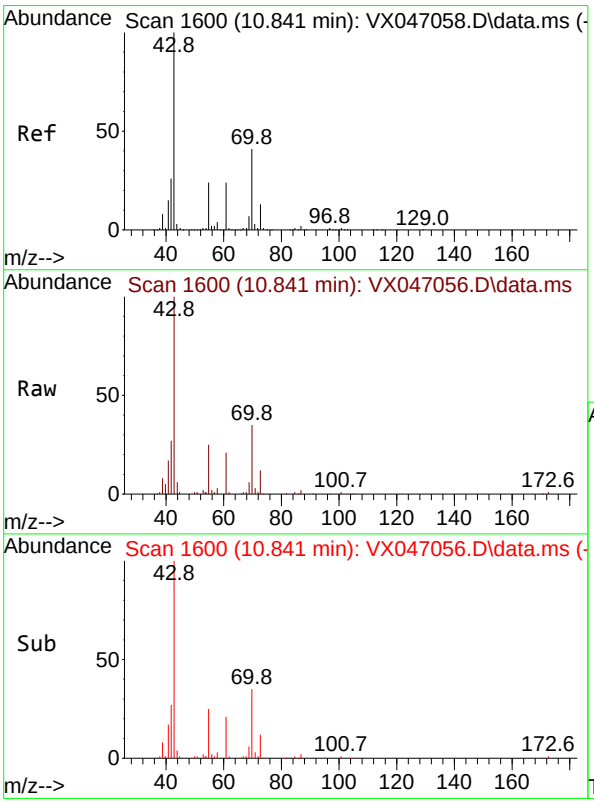
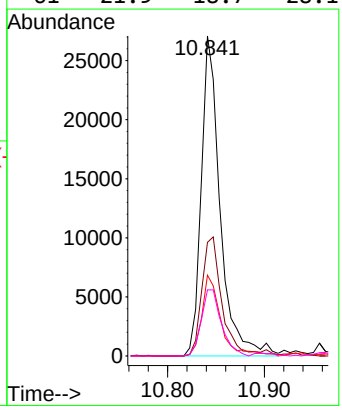
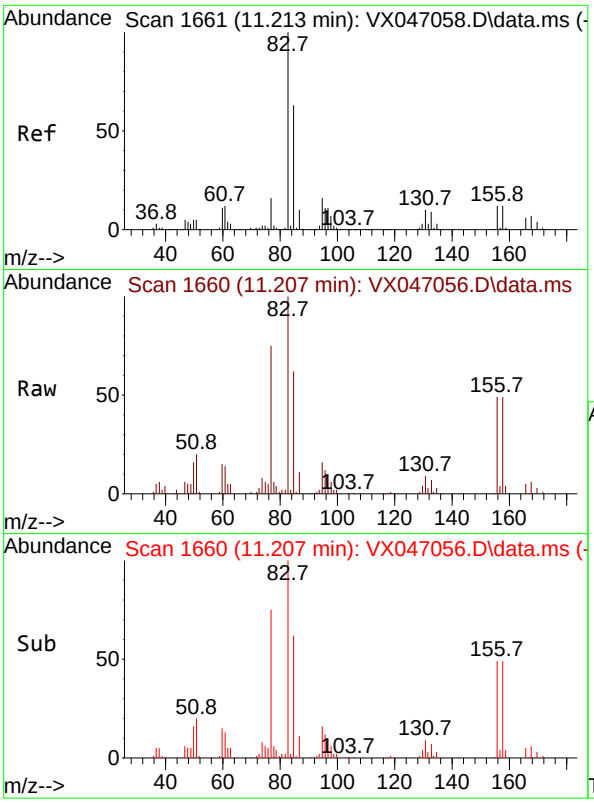


#74
N-amyl acetate
Concen: 4.769 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 36965

Ion	Ratio	Lower	Upper
43	100		
70	40.0	32.3	48.5
55	25.3	18.9	28.3
61	21.9	18.7	28.1

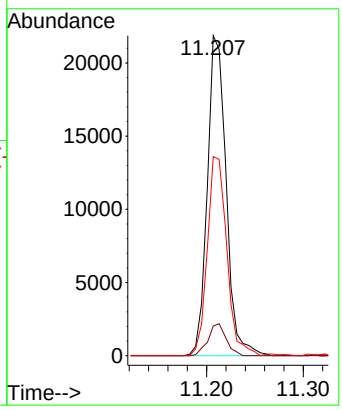




#75
1,1,2,2-Tetrachloroethane
Concen: 5.338 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 83 Resp: 2962

Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.0	14.9
85	64.5	32.0	96.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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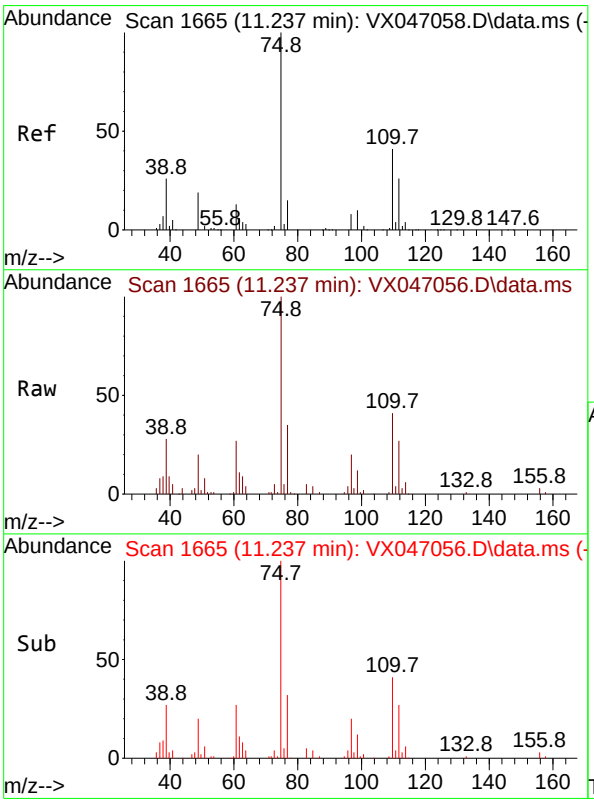
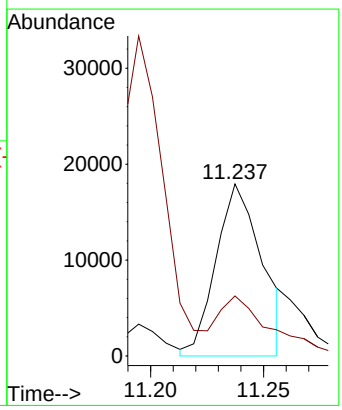
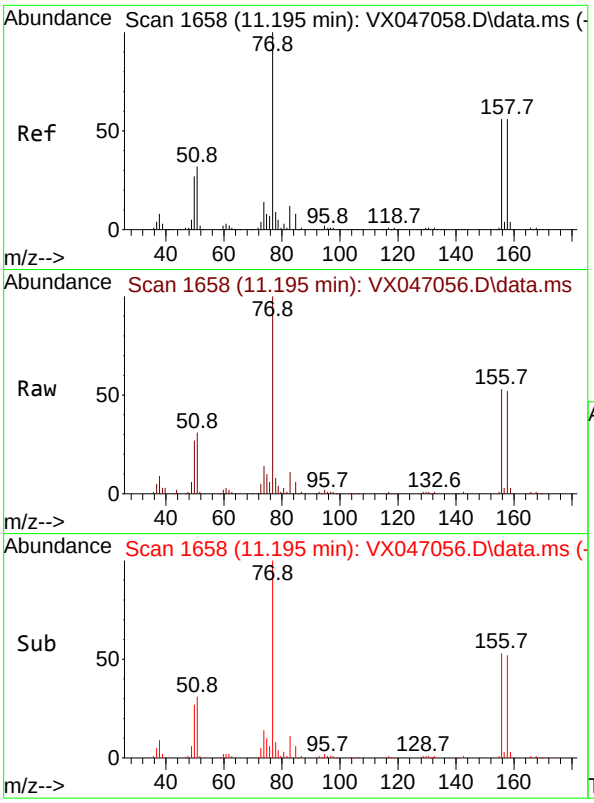


#76
1,2,3-Trichloropropane
Concen: 5.546 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 25285

Ion	Ratio	Lower	Upper
75	100		
77	38.7	21.6	65.0

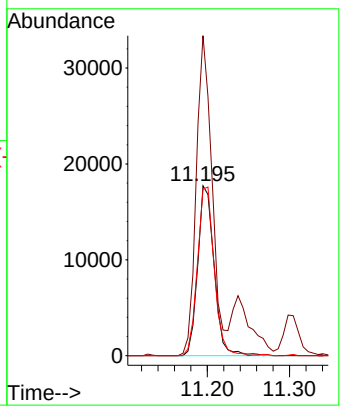




#77
Bromobenzene
Concen: 5.267 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:156 Resp: 2454

Ion	Ratio	Lower	Upper
156	100		
77	182.6	87.3	261.9
158	101.5	48.9	146.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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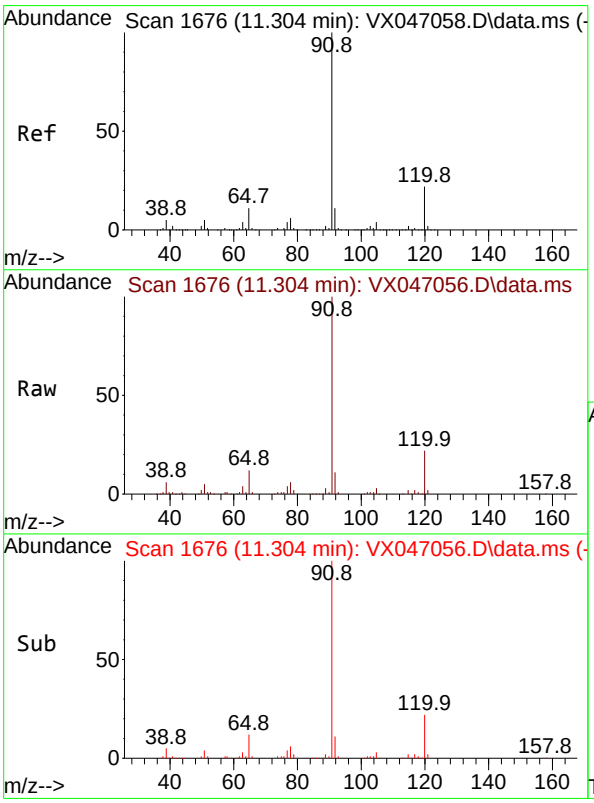
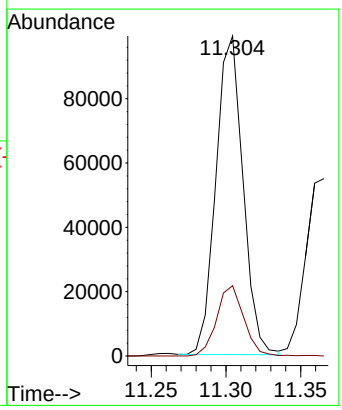
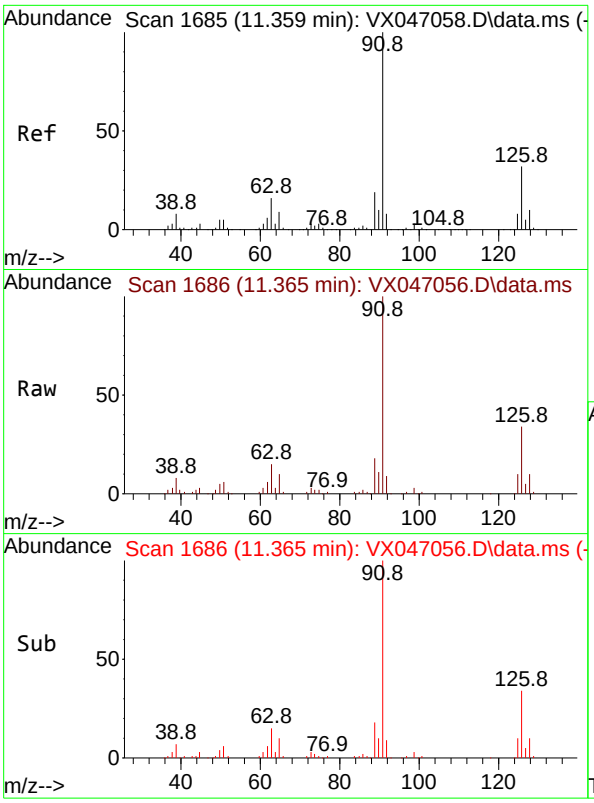


#78
n-propylbenzene
Concen: 5.368 ug/l
RT: 11.304 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 91 Resp: 124648

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0





#79
2-Chlorotoluene
Concen: 5.387 ug/l
RT: 11.365 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 91 Resp: 7478

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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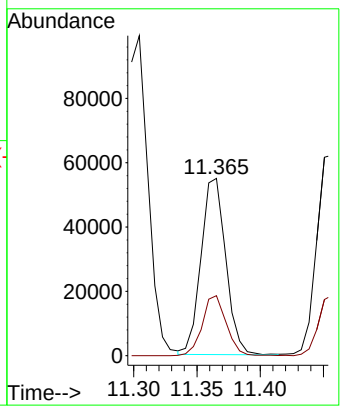
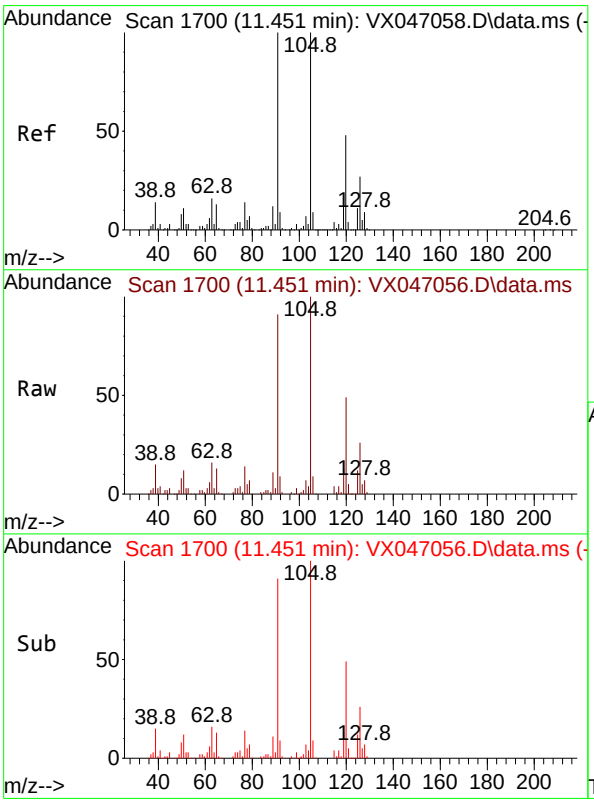
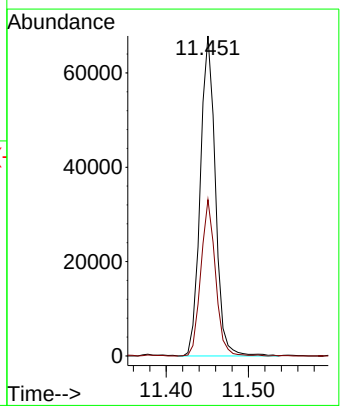


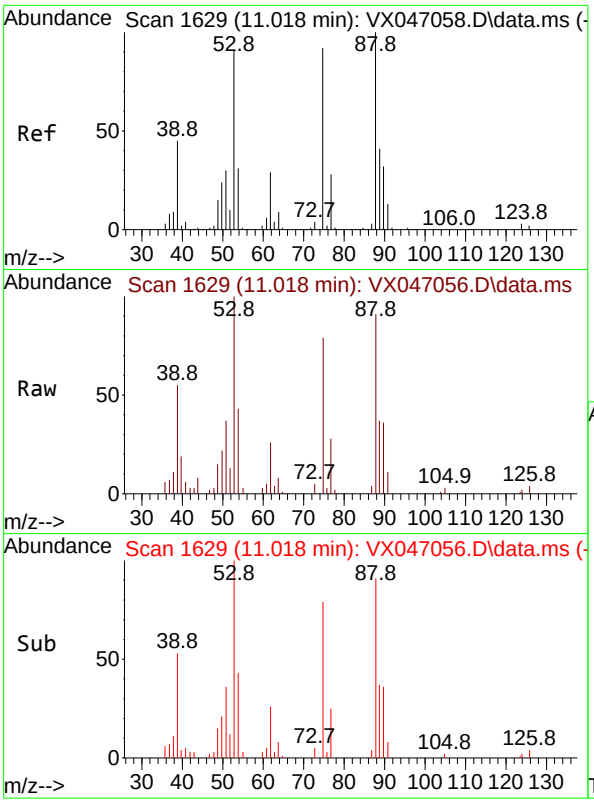


#80
1,3,5-Trimethylbenzene
Concen: 5.383 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:105 Resp: 86414

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.8	71.5

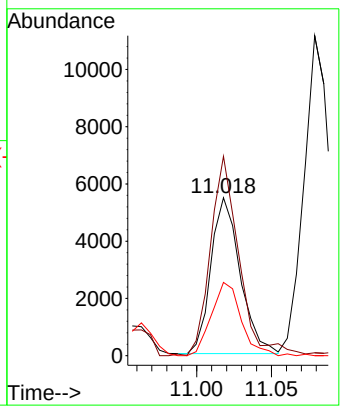




#81
trans-1,4-Dichloro-2-butene
Concen: 4.186 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 740

Ion	Ratio	Lower	Upper
75	100		
53	124.4	84.2	126.4
89	48.2	36.0	54.0



Instrument :
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ClientSampleId :
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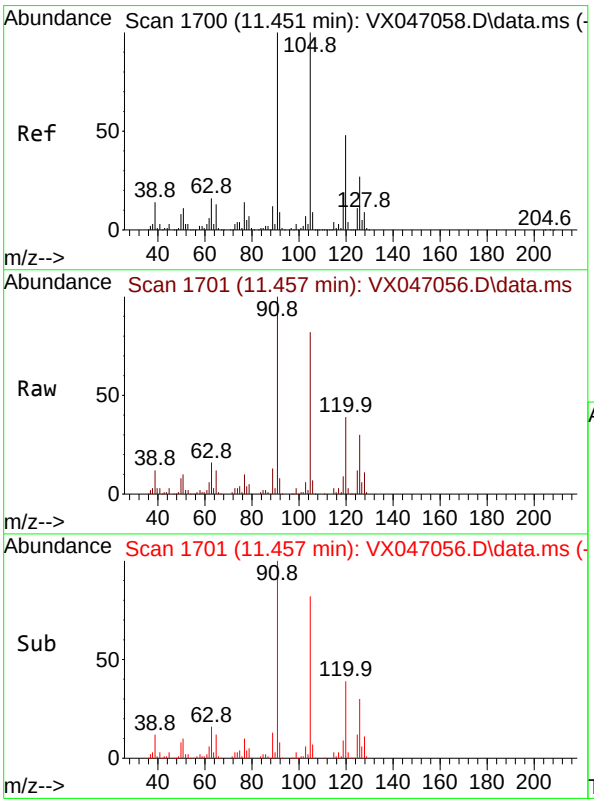
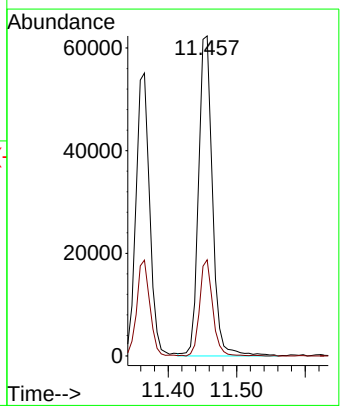
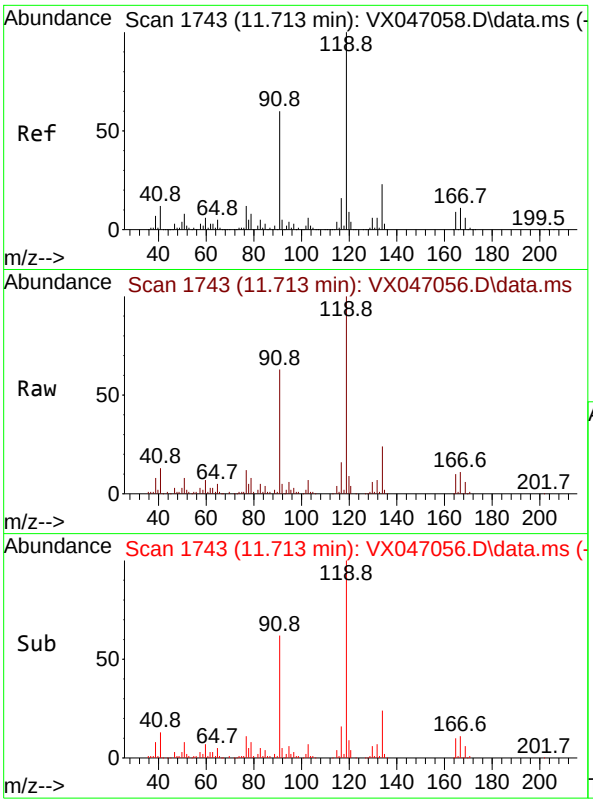


#82
4-Chlorotoluene
Concen: 5.450 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 91 Resp: 88304

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.1	42.3

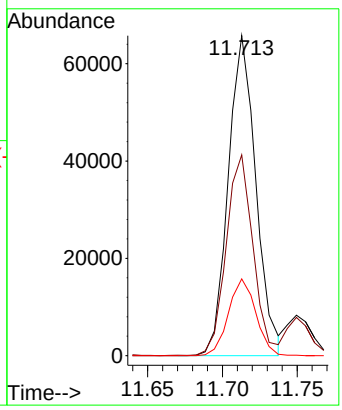




#83
tert-Butylbenzene
Concen: 5.248 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:119 Resp: 8456

Ion	Ratio	Lower	Upper
119	100		
91	61.4	29.6	88.8
134	23.8	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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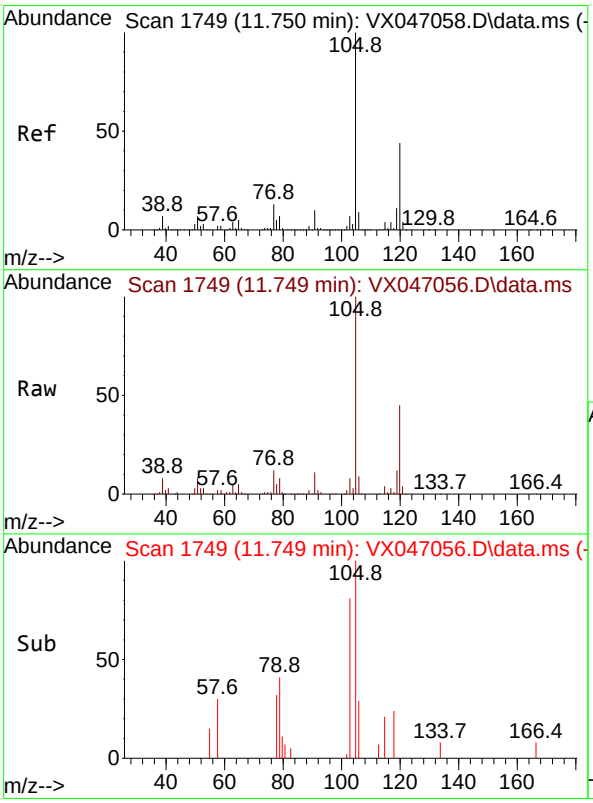
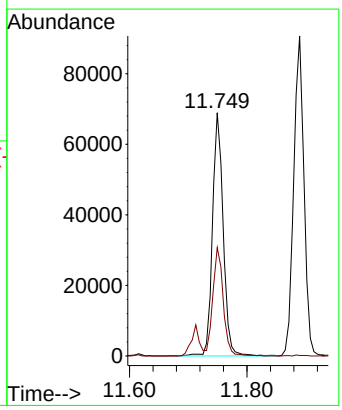
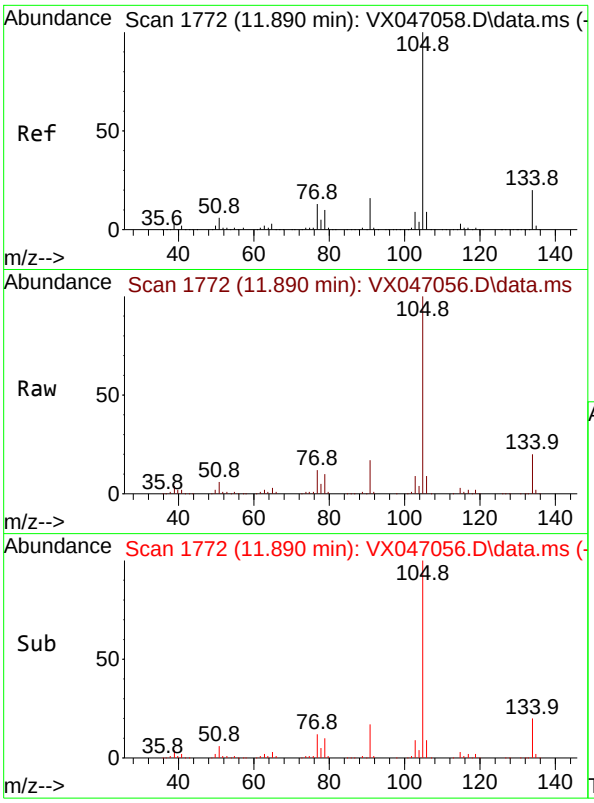


#84
1,2,4-Trimethylbenzene
Concen: 5.451 ug/l
RT: 11.749 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:105 Resp: 87289

Ion	Ratio	Lower	Upper
105	100		
120	43.1	22.0	66.0

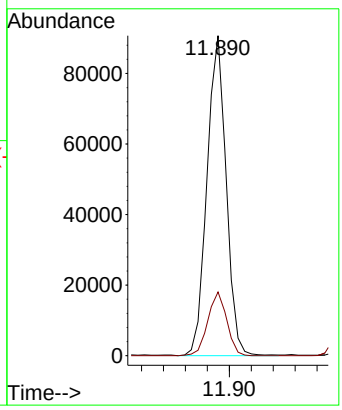




#85
sec-Butylbenzene
Concen: 5.477 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:105 Resp: 11025

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.9	29.7



Instrument :
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ClientSampleId :
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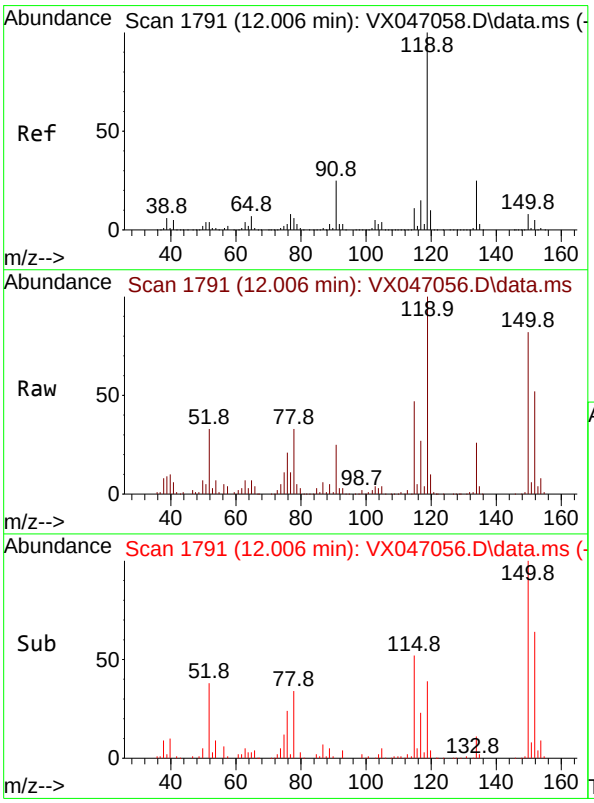
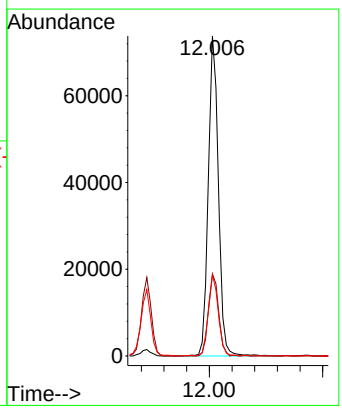
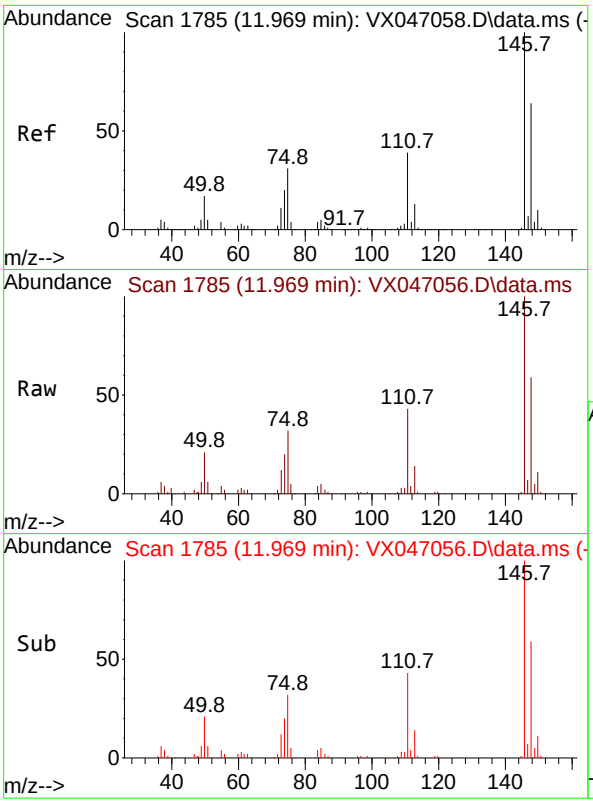


#86
p-Isopropyltoluene
Concen: 5.457 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:119 Resp: 91112

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.8	38.4
91	25.1	12.4	37.4

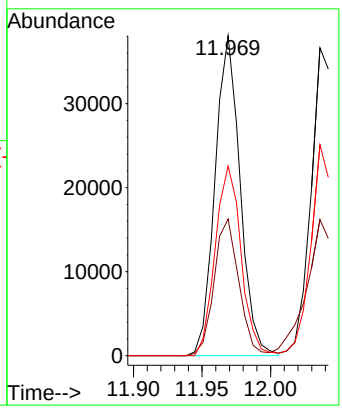




#87
1,3-Dichlorobenzene
Concen: 5.473 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:146 Resp: 4846

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.0	63.0
148	61.3	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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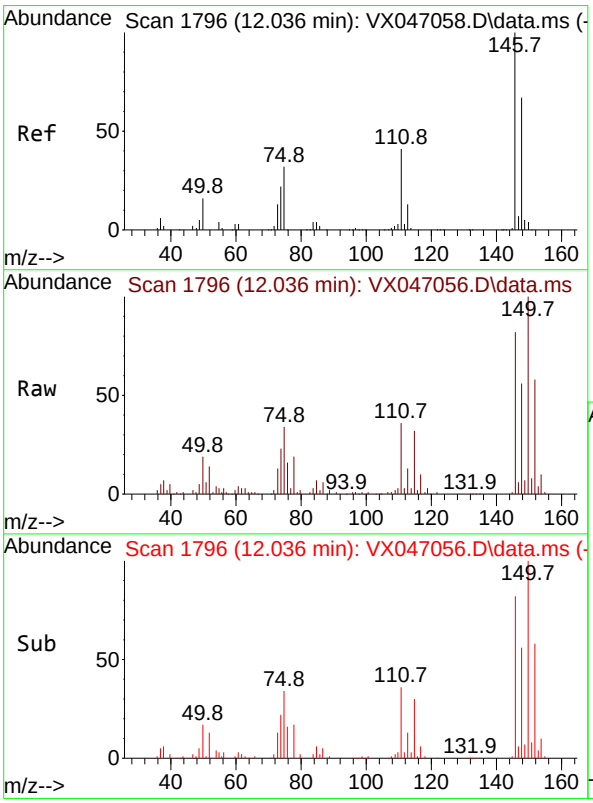
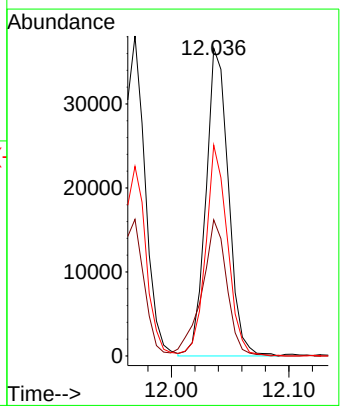
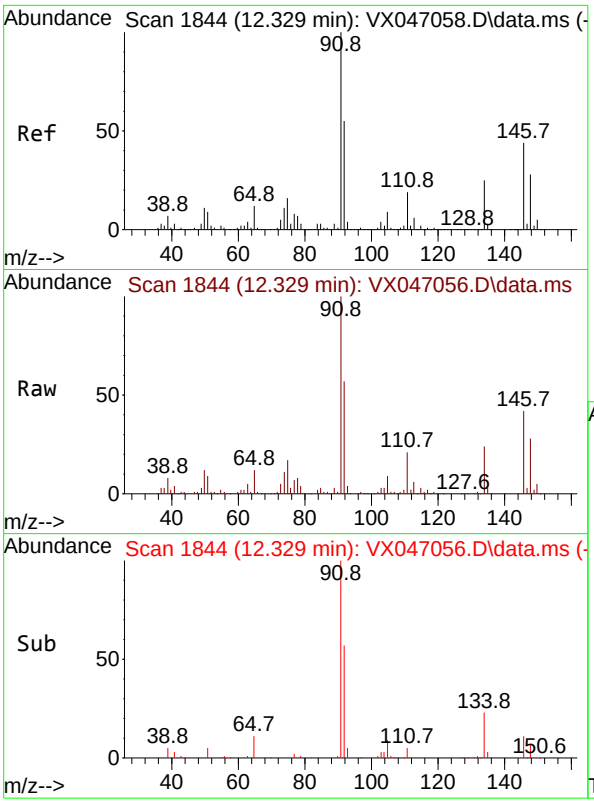


#88
1,4-Dichlorobenzene
Concen: 5.441 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:146 Resp: 48817

Ion	Ratio	Lower	Upper
146	100		
111	49.0	20.6	61.9
148	66.3	33.0	98.9

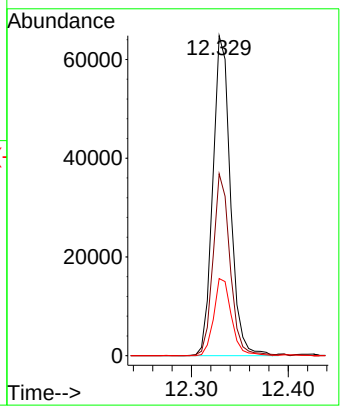




#89
n-Butylbenzene
Concen: 5.219 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 91 Resp: 8171

Ion	Ratio	Lower	Upper
91	100		
92	55.4	27.5	82.5
134	24.3	12.8	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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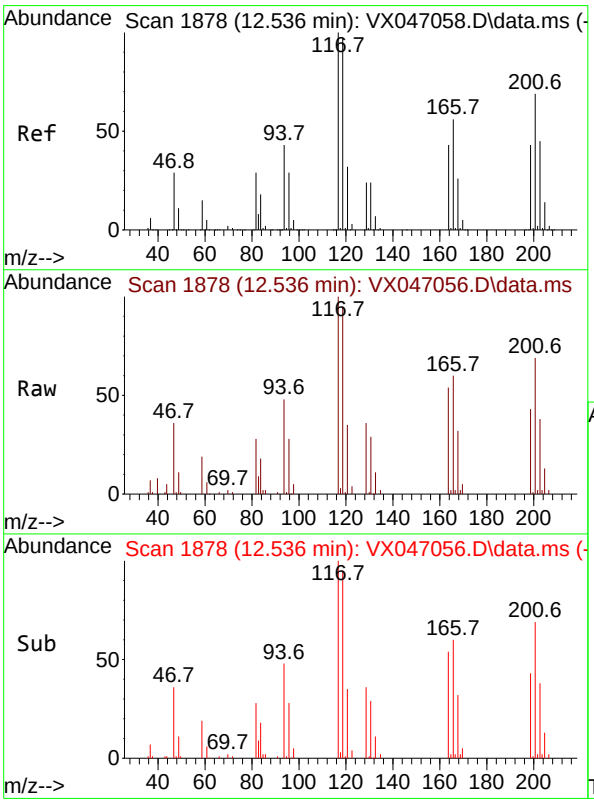
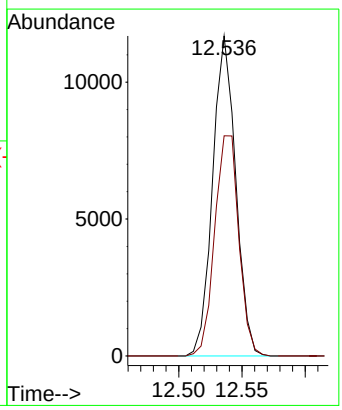
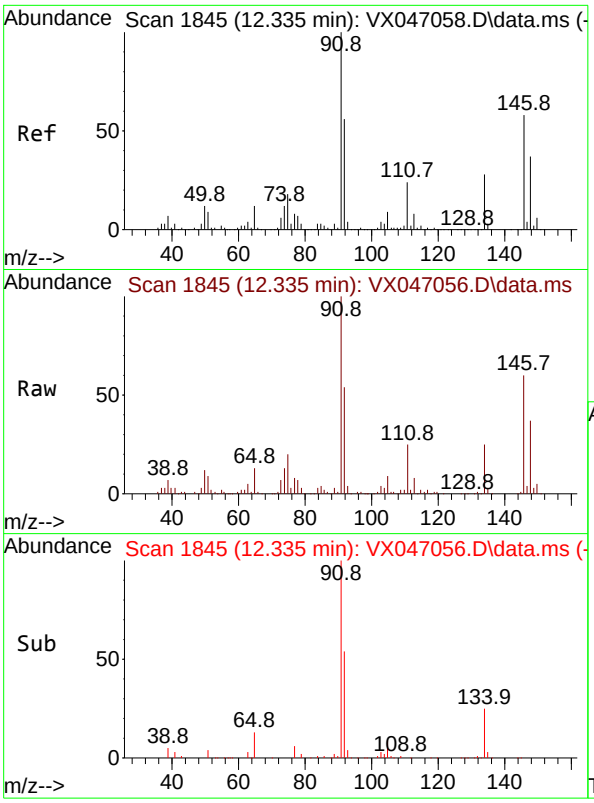


#90
Hexachloroethane
Concen: 4.953 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:117 Resp: 14794

Ion	Ratio	Lower	Upper
117	100		
201	72.2	34.8	104.5

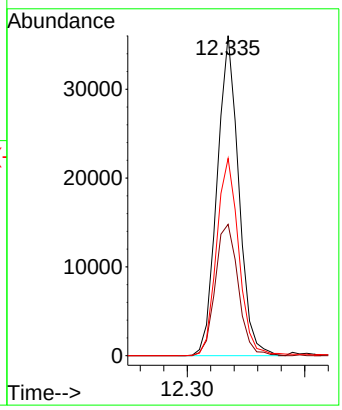




#91
1,2-Dichlorobenzene
Concen: 5.450 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:146 Resp: 4612

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.6	64.6
148	63.8	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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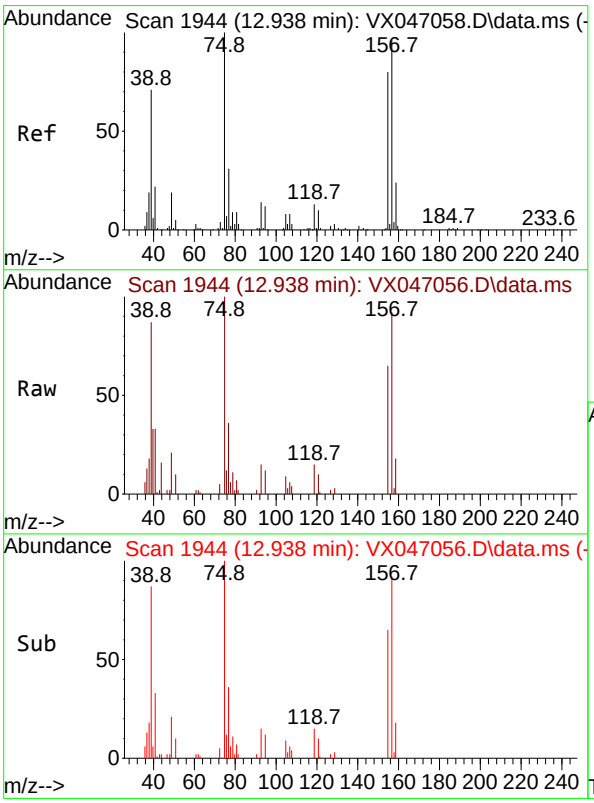
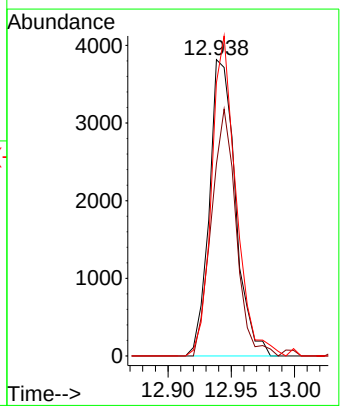
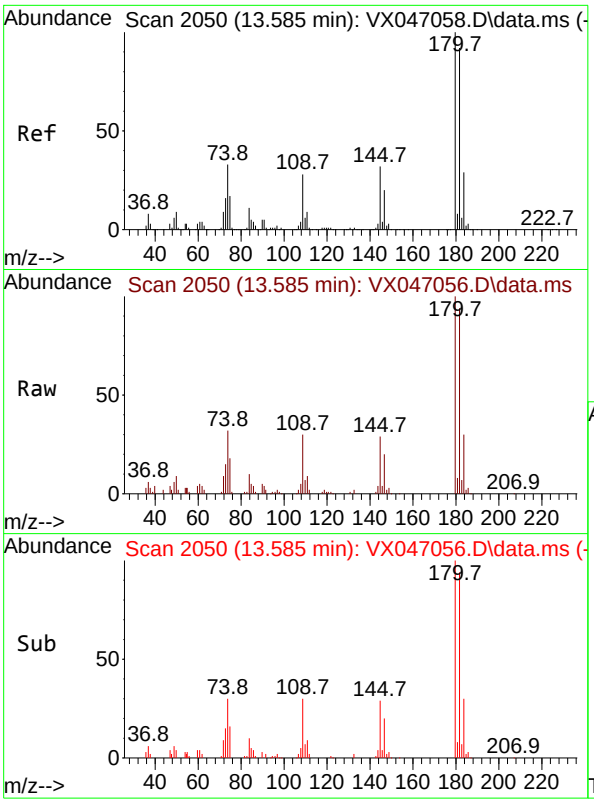


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.148 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 5485

Ion	Ratio	Lower	Upper
75	100		
155	78.4	41.3	124.1
157	100.8	52.8	158.3

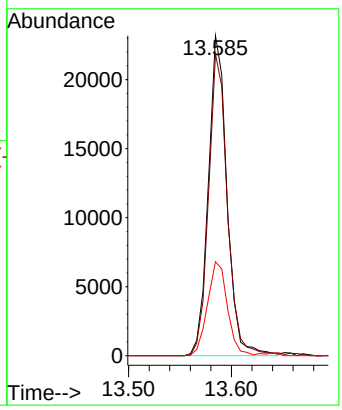




#93
1,2,4-Trichlorobenzene
Concen: 5.239 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:180 Resp: 2929

Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.3	141.8
145	31.2	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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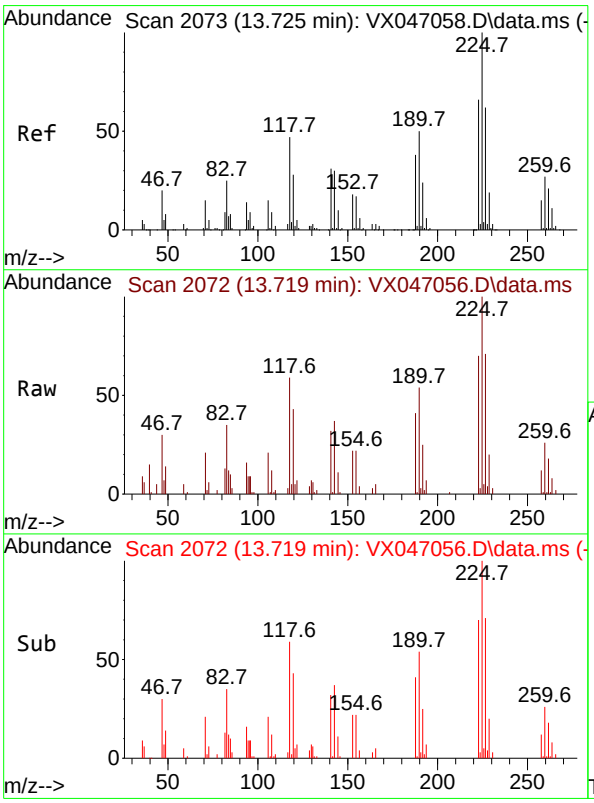
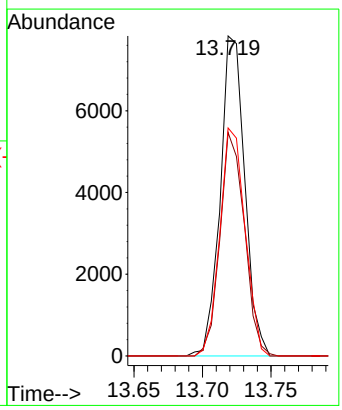
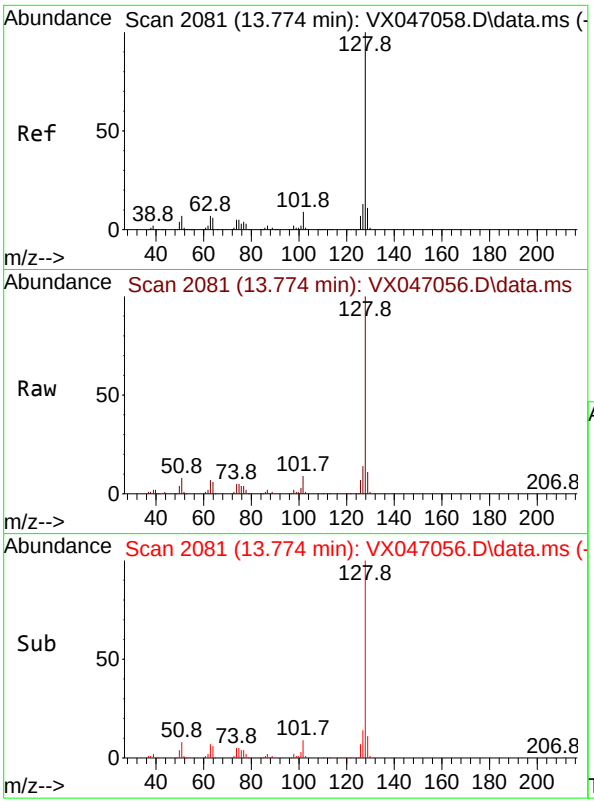


#94
Hexachlorobutadiene
Concen: 5.122 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:225 Resp: 9742

Ion	Ratio	Lower	Upper
225	100		
223	69.6	31.6	95.0
227	73.4	32.9	98.6

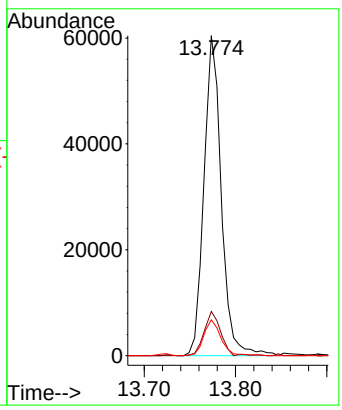




#95
Naphthalene
Concen: 4.854 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:128 Resp: 7956

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.1	15.1
129	11.1	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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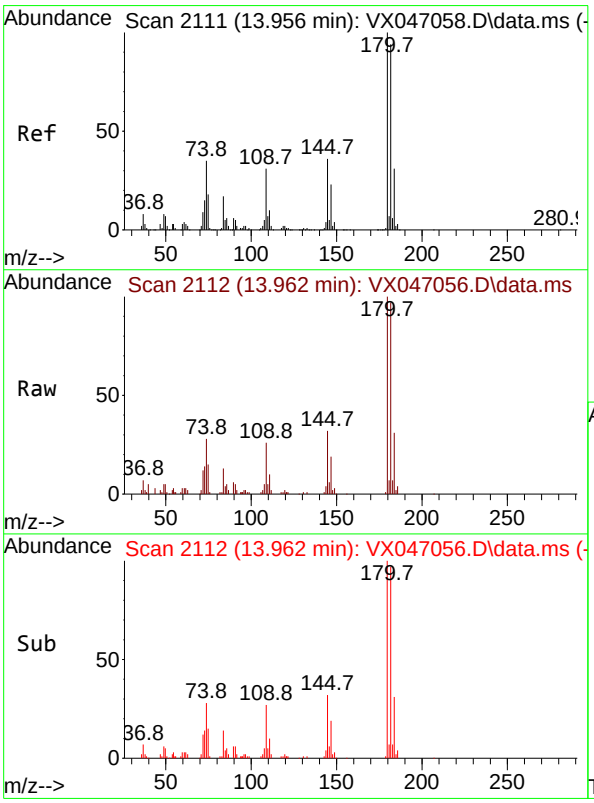
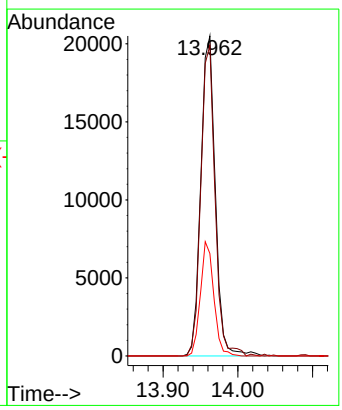
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025



#96
1,2,3-Trichlorobenzene
Concen: 5.120 ug/l
RT: 13.962 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:180 Resp: 27584

Ion	Ratio	Lower	Upper
180	100		
182	95.2	46.9	140.6
145	33.1	17.3	52.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047057.D
Acq On : 21 Jul 2025 10:29
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 22 03:37:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	320913	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	544303	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	486572	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	240632	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	65541	16.395	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 32.800%#			
35) Dibromofluoromethane	5.397	113	57105	16.992	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 33.980%#			
50) Toluene-d8	8.653	98	178825	16.431	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 32.860%#			
62) 4-Bromofluorobenzene	11.079	95	80359	17.133	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 34.260%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	78327	18.376	ug/l	99
3) Chloromethane	1.306	50	80305	19.046	ug/l	98
4) Vinyl Chloride	1.386	62	89887	19.832	ug/l	96
5) Bromomethane	1.617	94	51290	20.832	ug/l	92
6) Chloroethane	1.703	64	55955	18.797	ug/l	99
7) Trichlorofluoromethane	1.904	101	135815	20.095	ug/l	98
8) Diethyl Ether	2.148	74	48319	20.277	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.343	101	82864	20.350	ug/l	100
10) Methyl Iodide	2.465	142	70850	17.073	ug/l	98
11) Tert butyl alcohol	2.959	59	48048	96.502	ug/l	98
12) 1,1-Dichloroethene	2.337	96	81489	20.206	ug/l	96
13) Acrolein	2.245	56	83483	96.989	ug/l	97
14) Allyl chloride	2.678	41	149196	20.465	ug/l	99
15) Acrylonitrile	3.074	53	203243	106.603	ug/l	100
16) Acetone	2.385	43	157932	98.619	ug/l	97
17) Carbon Disulfide	2.526	76	234036	20.059	ug/l	99
18) Methyl Acetate	2.715	43	81624	19.180	ug/l	97
19) Methyl tert-butyl Ether	3.123	73	251581	20.497	ug/l	99
20) Methylene Chloride	2.806	84	90849	20.621	ug/l	99
21) trans-1,2-Dichloroethene	3.105	96	85583	20.738	ug/l	97
22) Diisopropyl ether	3.769	45	293875	20.967	ug/l	91
23) Vinyl Acetate	3.733	43	1192633	106.090	ug/l	99
24) 1,1-Dichloroethane	3.623	63	159828	20.507	ug/l	99
25) 2-Butanone	4.568	43	238246	102.172	ug/l	97
26) 2,2-Dichloropropane	4.495	77	119113	19.743	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	99794	20.420	ug/l	99
28) Bromochloromethane	4.909	49	72912	20.334	ug/l	97
29) Tetrahydrofuran	5.019	42	156819	104.232	ug/l	100
30) Chloroform	5.104	83	160698	20.255	ug/l	100
31) Cyclohexane	5.482	56	152430	20.397	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	141289	20.503	ug/l	100
36) 1,1-Dichloropropene	5.702	75	114925	20.062	ug/l	99
37) Ethyl Acetate	4.726	43	95455	18.907	ug/l	99
38) Carbon Tetrachloride	5.684	117	123204	20.150	ug/l	99
39) Methylcyclohexane	7.385	83	146762	20.519	ug/l	99
40) Benzene	6.049	78	342454	20.656	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047057.D
Acq On : 21 Jul 2025 10:29
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 22 03:37:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	56166	20.350	ug/l		95
42) 1,2-Dichloroethane	6.098	62	121515	20.808	ug/l		98
43) Isopropyl Acetate	6.342	43	171186	20.802	ug/l		99
44) Trichloroethene	7.128	130	85446	20.099	ug/l		98
45) 1,2-Dichloropropane	7.433	63	85547	20.603	ug/l		94
46) Dibromomethane	7.586	93	59949	20.588	ug/l		99
47) Bromodichloromethane	7.824	83	126091	20.345	ug/l		99
48) Methyl methacrylate	7.695	41	86386	19.269	ug/l		97
49) 1,4-Dioxane	7.665	88	21524	422.133	ug/l		97
51) 4-Methyl-2-Pentanone	8.573	43	511307	104.532	ug/l		99
52) Toluene	8.720	92	214955	21.087	ug/l		100
53) t-1,3-Dichloropropene	8.982	75	118872	20.311	ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	134587	21.011	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	81137	21.224	ug/l		98
56) Ethyl methacrylate	9.116	69	121053	21.389	ug/l		98
57) 1,3-Dichloropropane	9.311	76	139031	20.925	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	294878	93.631	ug/l		100
59) 2-Hexanone	9.427	43	352298	109.015	ug/l		97
60) Dibromochloromethane	9.518	129	93165	20.779	ug/l		100
61) 1,2-Dibromoethane	9.610	107	82035	20.522	ug/l		99
64) Tetrachloroethene	9.274	164	74177	21.147	ug/l		95
65) Chlorobenzene	10.079	112	238428	20.917	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.158	131	78682	20.502	ug/l		98
67) Ethyl Benzene	10.195	91	412412	20.693	ug/l		99
68) m/p-Xylenes	10.299	106	309353	41.478	ug/l		98
69) o-Xylene	10.640	106	149592	21.083	ug/l		100
70) Styrene	10.652	104	259267	21.310	ug/l		100
71) Bromoform	10.799	173	58699	20.135	ug/l	#	100
73) Isopropylbenzene	10.963	105	399077	21.021	ug/l		100
74) N-amyl acetate	10.841	43	155675	20.558	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	113741	20.975	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	92003m	20.656	ug/l		
77) Bromobenzene	11.195	156	95957	21.073	ug/l		97
78) n-propylbenzene	11.298	91	476196	20.991	ug/l		100
79) 2-Chlorotoluene	11.359	91	278615	20.545	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	330824	21.093	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	31878	18.440	ug/l		94
82) 4-Chlorotoluene	11.451	91	331629	20.951	ug/l		99
83) tert-Butylbenzene	11.713	119	323819	20.571	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	328672	21.010	ug/l		100
85) sec-Butylbenzene	11.890	105	410930	20.892	ug/l		99
86) p-Isopropyltoluene	12.006	119	343591	21.065	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	179867	20.789	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	183173	20.897	ug/l		98
89) n-Butylbenzene	12.329	91	319940	20.916	ug/l		98
90) Hexachloroethane	12.536	117	58057	19.896	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	169749	20.528	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	21427	20.585	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	111525	20.413	ug/l		99
94) Hexachlorobutadiene	13.719	225	39186	21.090	ug/l		96
95) Naphthalene	13.774	128	329630	20.581	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	107542	20.432	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047057.D
Acq On : 21 Jul 2025 10:29
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 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:37:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047057.D
Acq On : 21 Jul 2025 10:29
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
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Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
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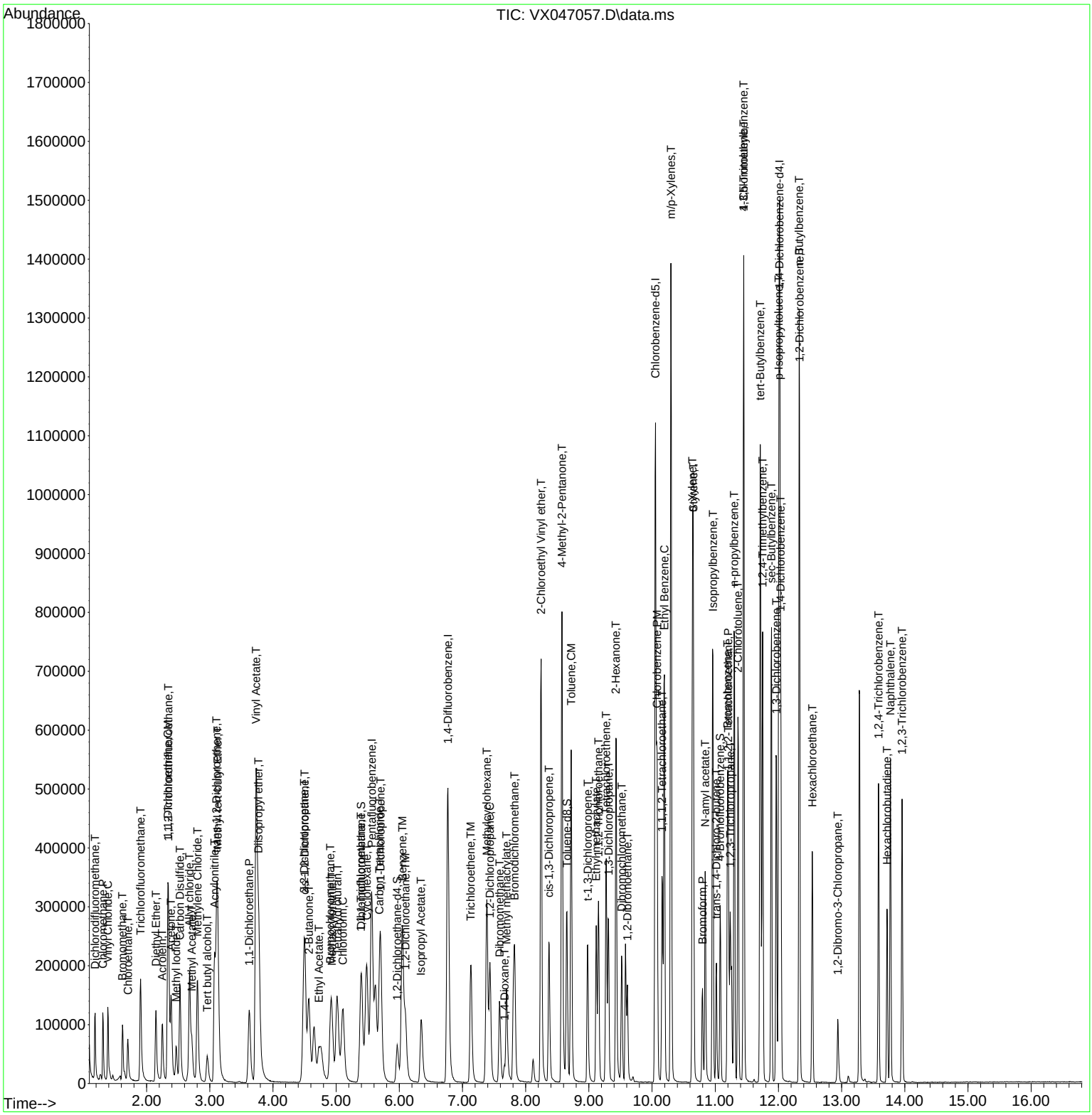
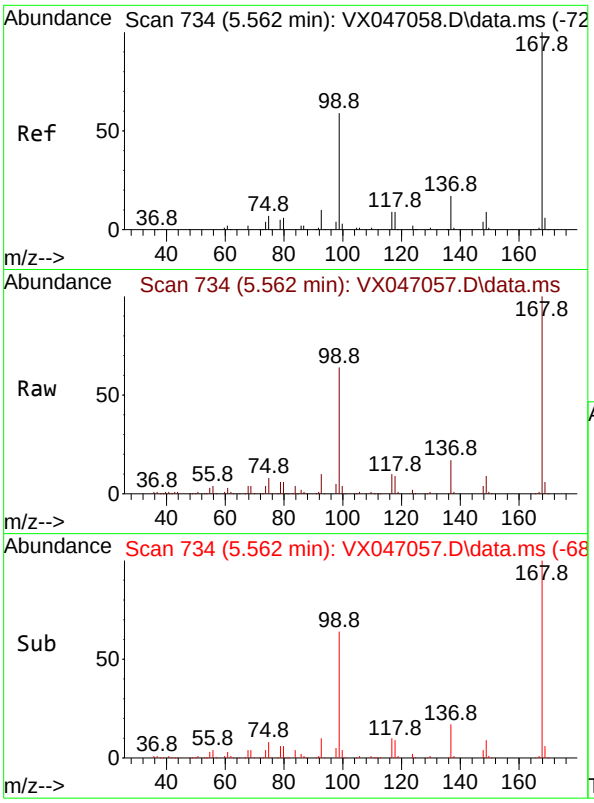
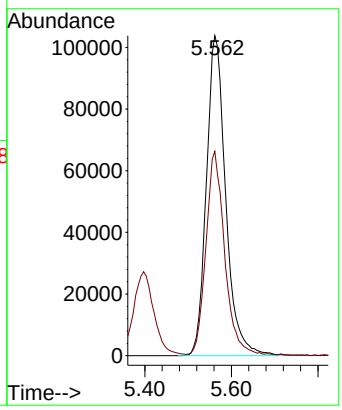




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:168 Resp: 32091

Ion	Ratio	Lower	Upper
168	100		
99	63.5	48.0	72.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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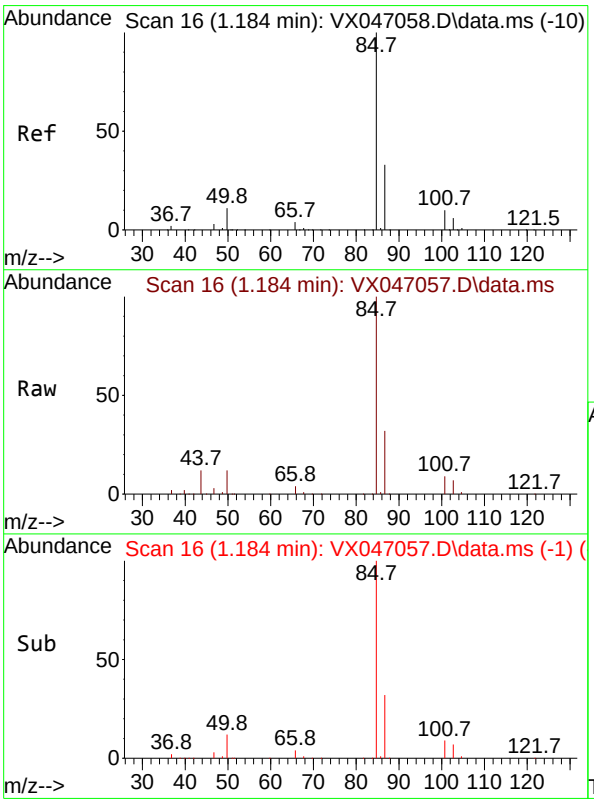
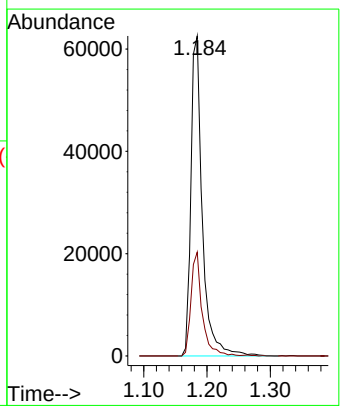
Supervised By :Mahesh Dadoda 07/22/2025

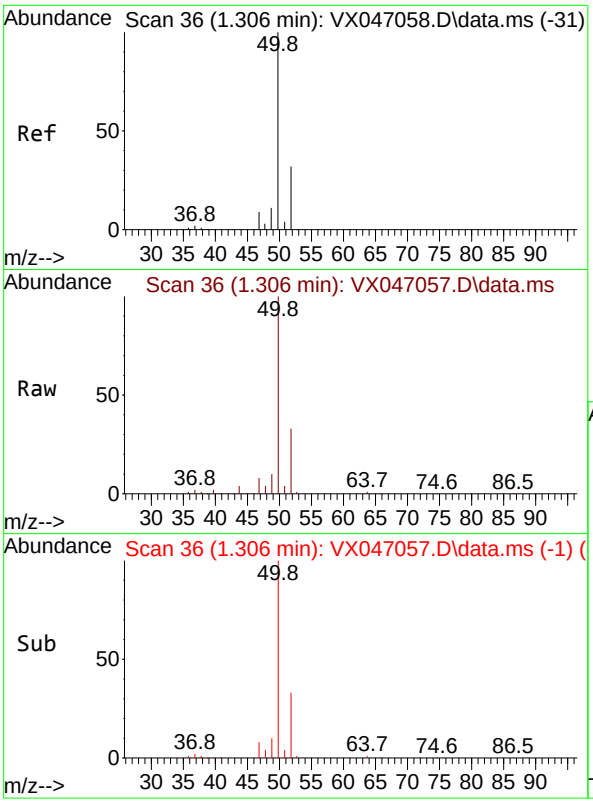


#2
Dichlorodifluoromethane
Concen: 18.376 ug/l
RT: 1.184 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 85 Resp: 78327

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.6	49.8

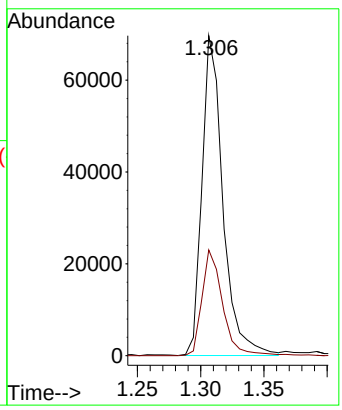




#3
Chloromethane
Concen: 19.046 ug/l
RT: 1.306 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 50 Resp: 8030

Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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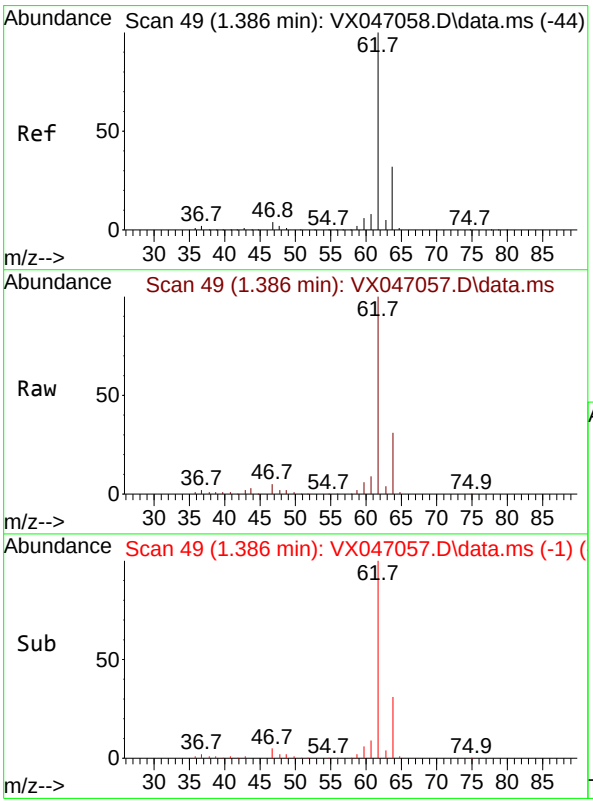
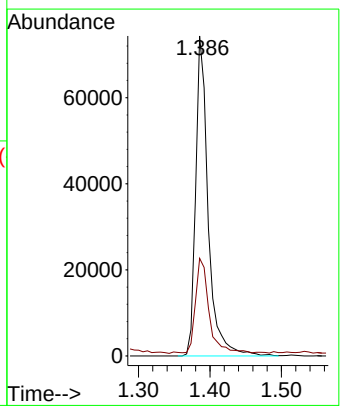
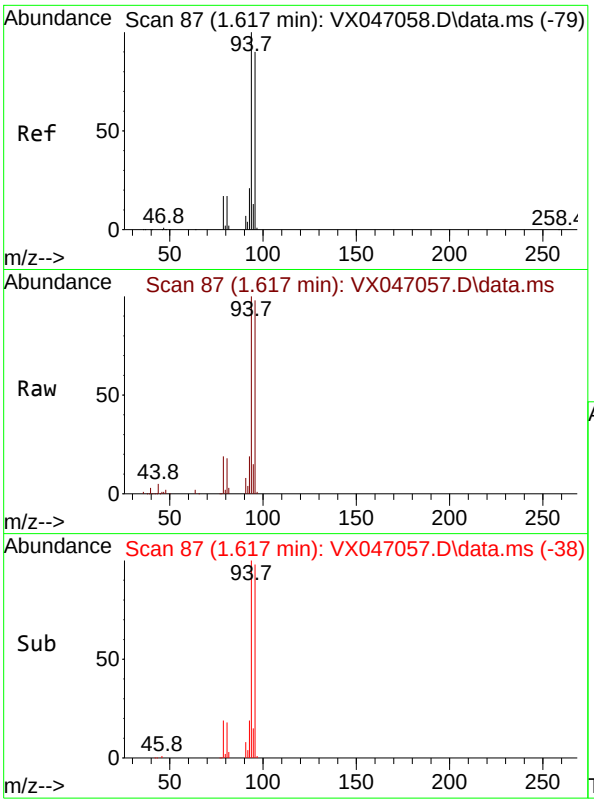


#4
Vinyl Chloride
Concen: 19.832 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 62 Resp: 89887

Ion	Ratio	Lower	Upper
62	100		
64	29.5	25.2	37.8

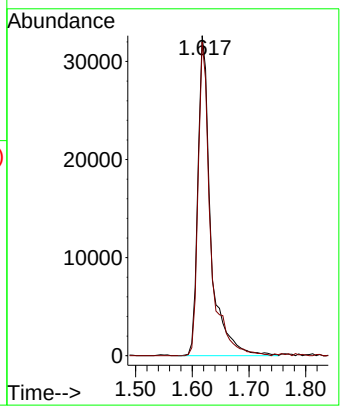




#5
Bromomethane
Concen: 20.832 ug/l
RT: 1.617 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 94 Resp: 5129

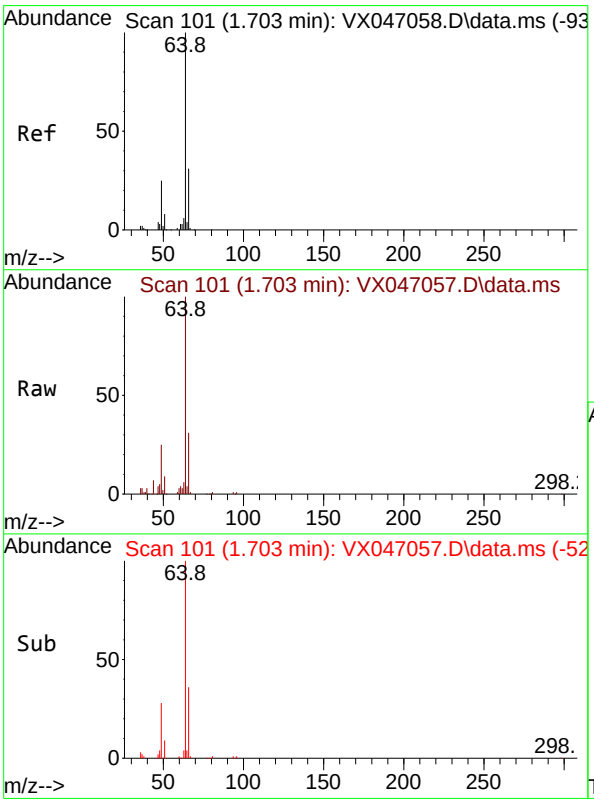
Ion	Ratio	Lower	Upper
94	100		
96	98.1	72.3	108.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

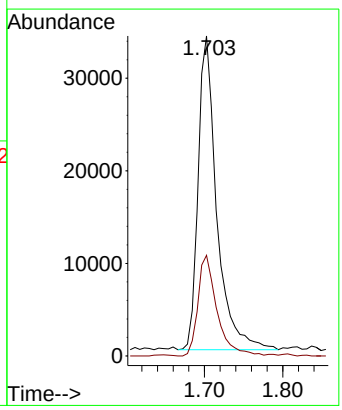
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

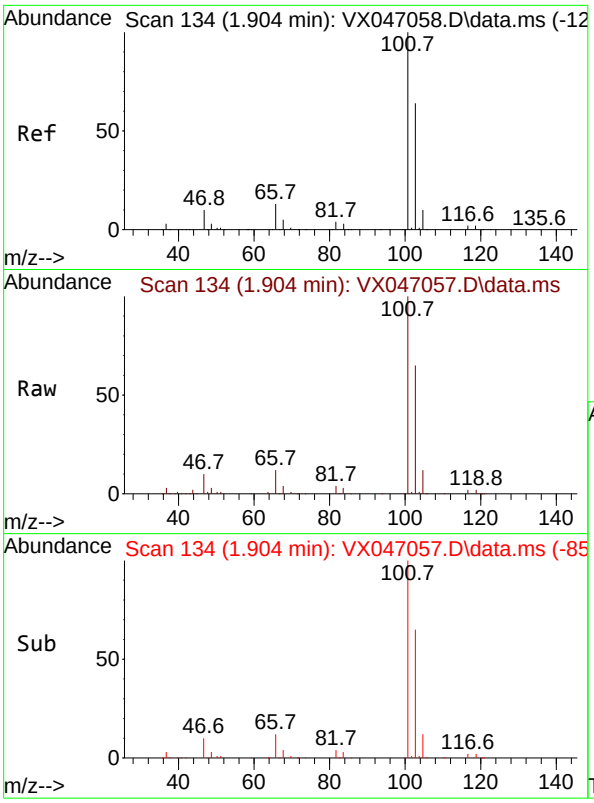


#6
Chloroethane
Concen: 18.797 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 64 Resp: 55955

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.0	37.6

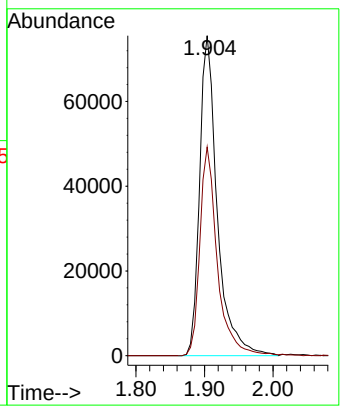




#7
Trichlorofluoromethane
Concen: 20.095 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:101 Resp: 13581

Ion	Ratio	Lower	Upper
101	100		
103	65.2	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/22/2025
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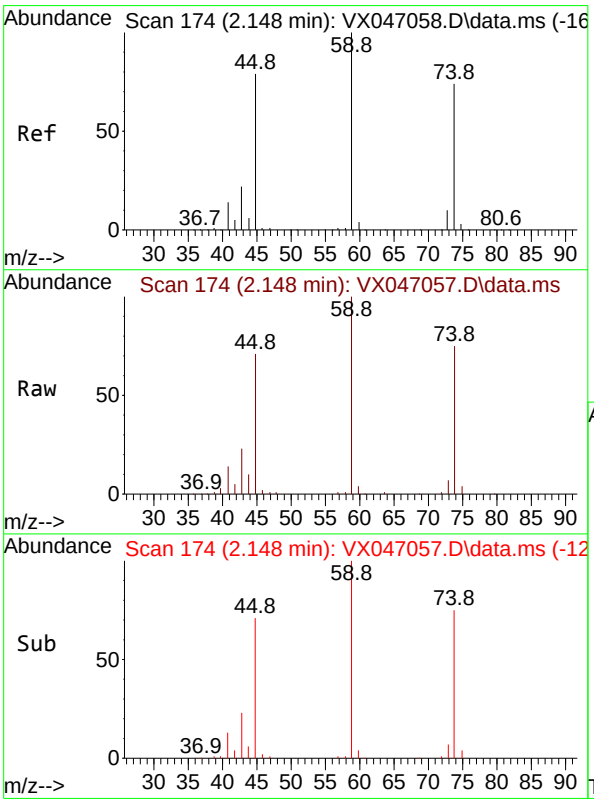
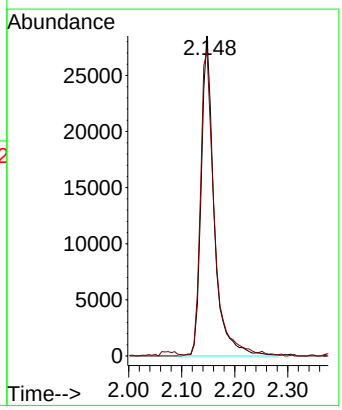
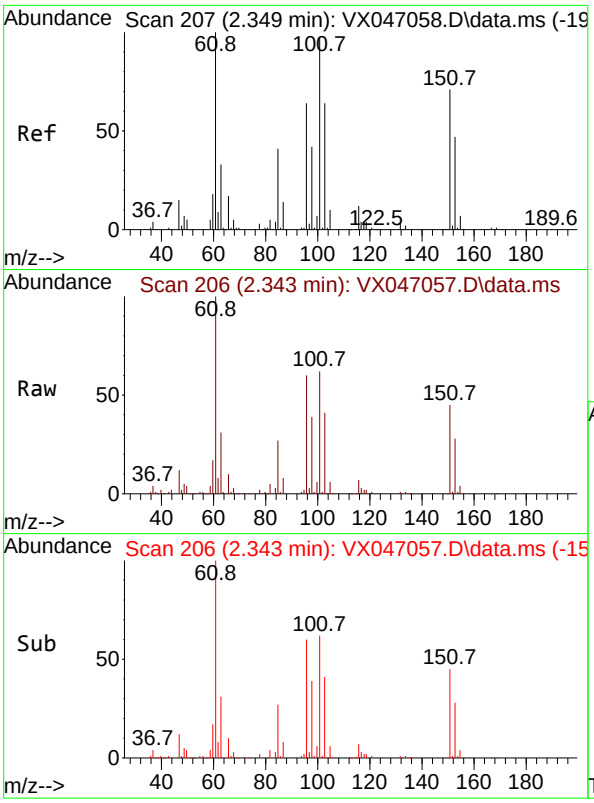


#8
Diethyl Ether
Concen: 20.277 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 74 Resp: 48319

Ion	Ratio	Lower	Upper
74	100		
45	103.6	53.0	159.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.350 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:101 Resp: 8286

Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.4	53.0
151	73.8	59.2	88.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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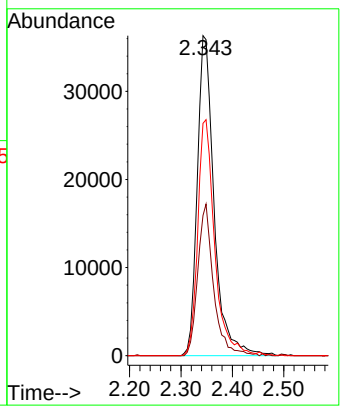
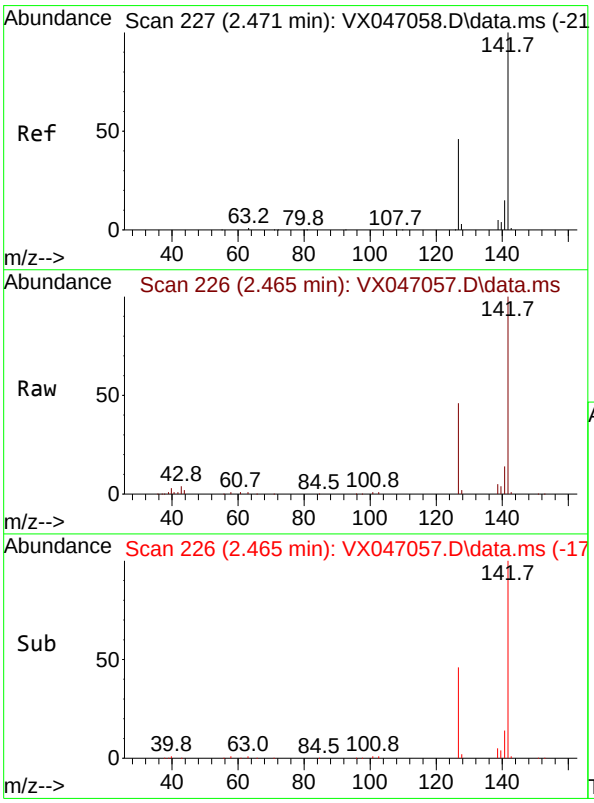
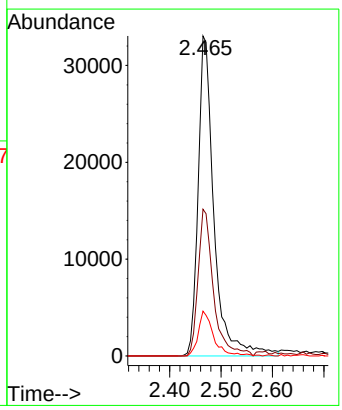


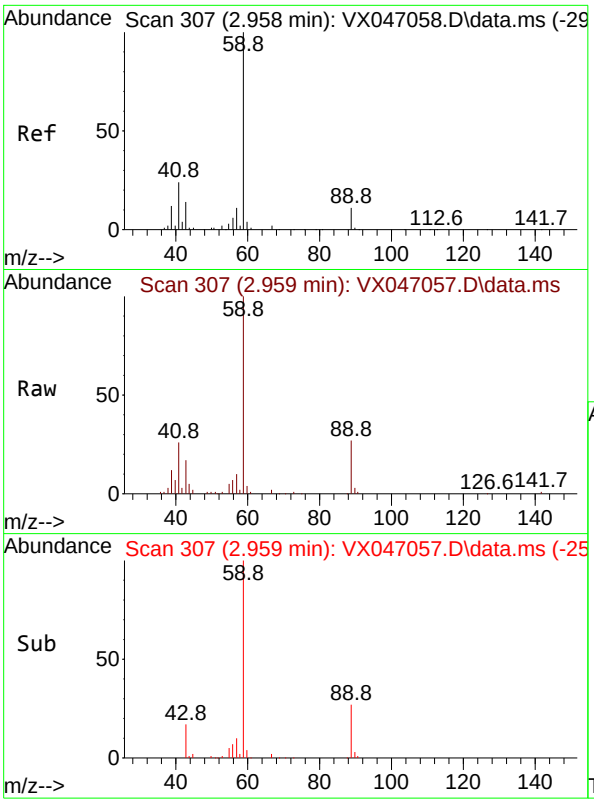


#10
Methyl Iodide
Concen: 17.073 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:142 Resp: 70850

Ion	Ratio	Lower	Upper
142	100		
127	44.3	36.6	54.8
141	13.6	10.9	16.3

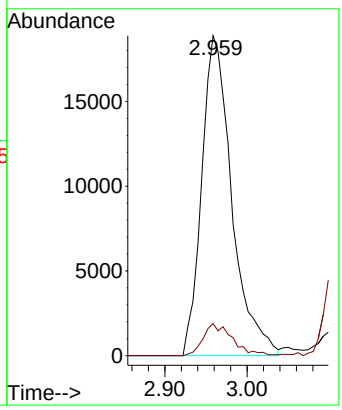




#11
Tert butyl alcohol
Concen: 96.502 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.001 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 59 Resp: 4804

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.5	12.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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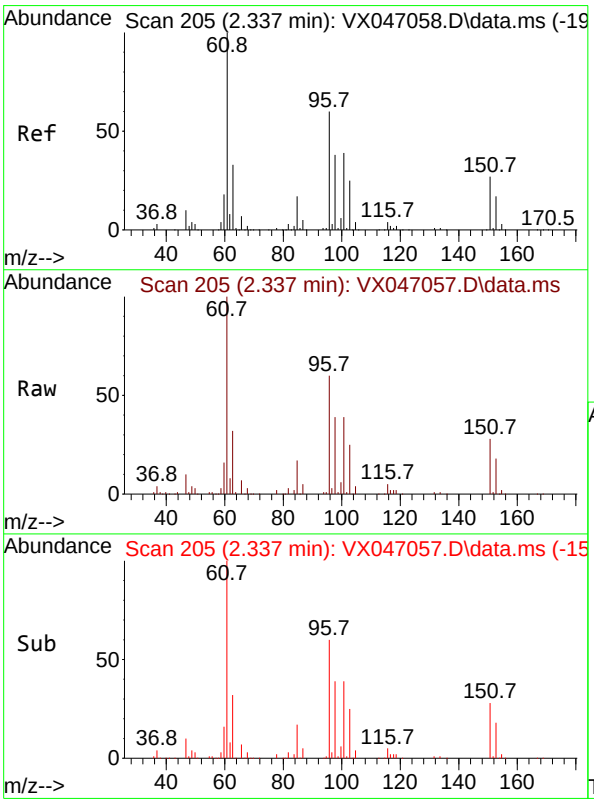
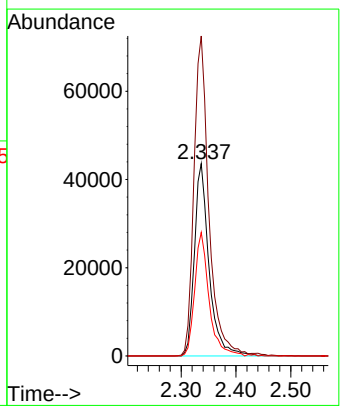
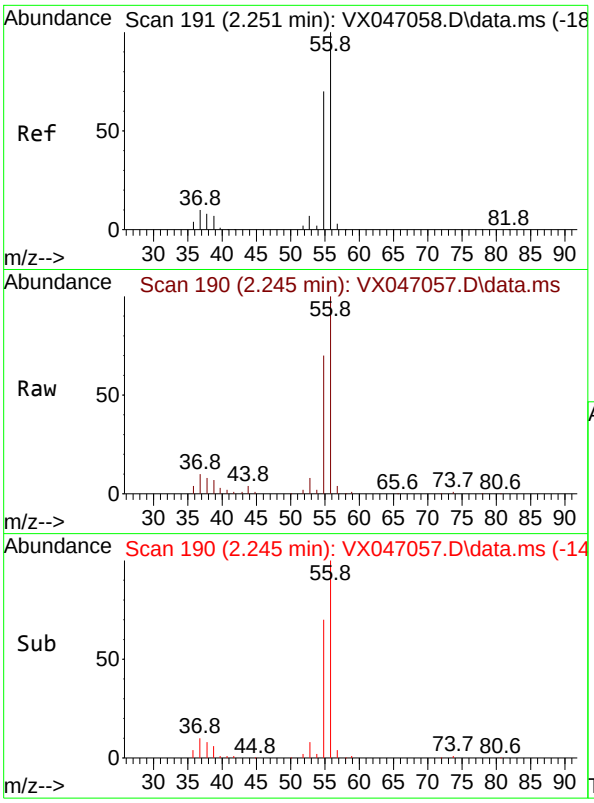


#12
1,1-Dichloroethene
Concen: 20.206 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 96 Resp: 81489

Ion	Ratio	Lower	Upper
96	100		
61	159.3	132.6	198.8
98	61.5	50.2	75.4

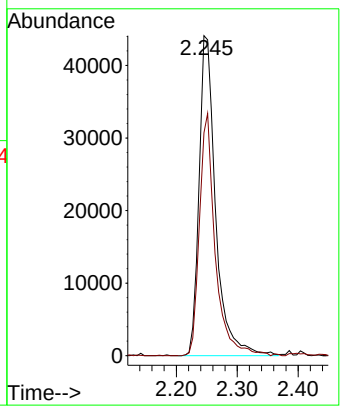




#13
Acrolein
Concen: 96.989 ug/l
RT: 2.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 56 Resp: 8348

Ion	Ratio	Lower	Upper
56	100		
55	71.8	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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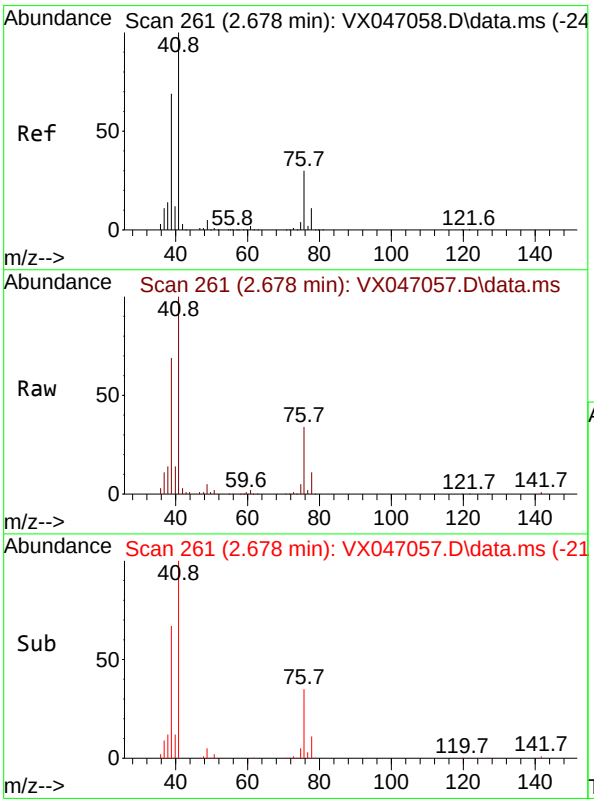
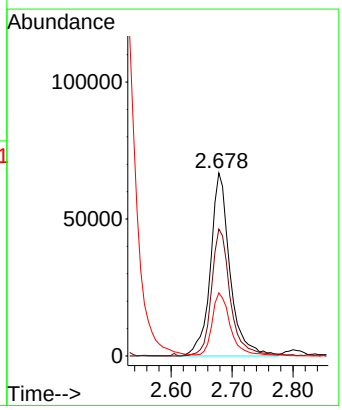
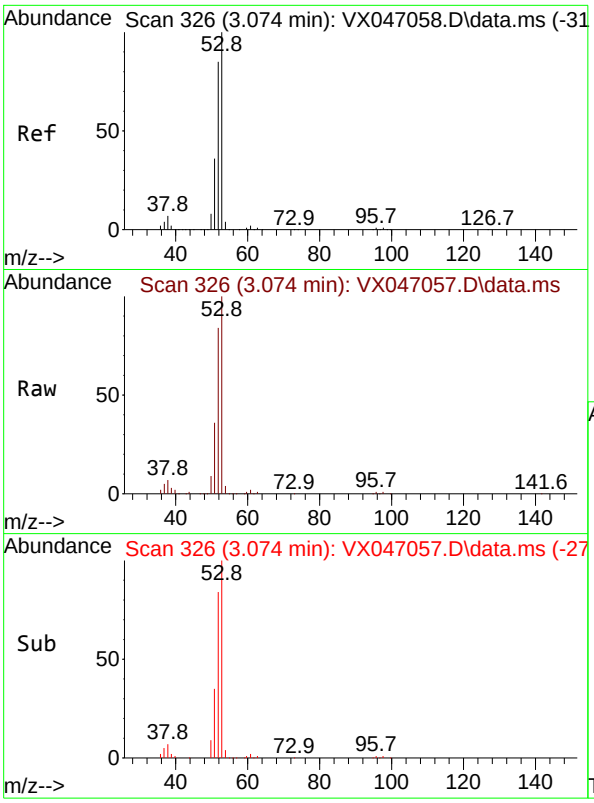


#14
Allyl chloride
Concen: 20.465 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 41 Resp: 149196

Ion	Ratio	Lower	Upper
41	100		
39	67.1	52.6	78.8
76	32.6	25.7	38.5

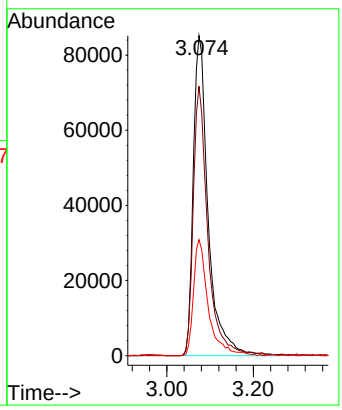




#15
Acrylonitrile
Concen: 106.603 ug/l
RT: 3.074 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 53 Resp: 20324

Ion	Ratio	Lower	Upper
53	100		
52	81.8	65.7	98.5
51	35.9	28.8	43.2



Instrument :
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ClientSampleId :
VSTDICC020

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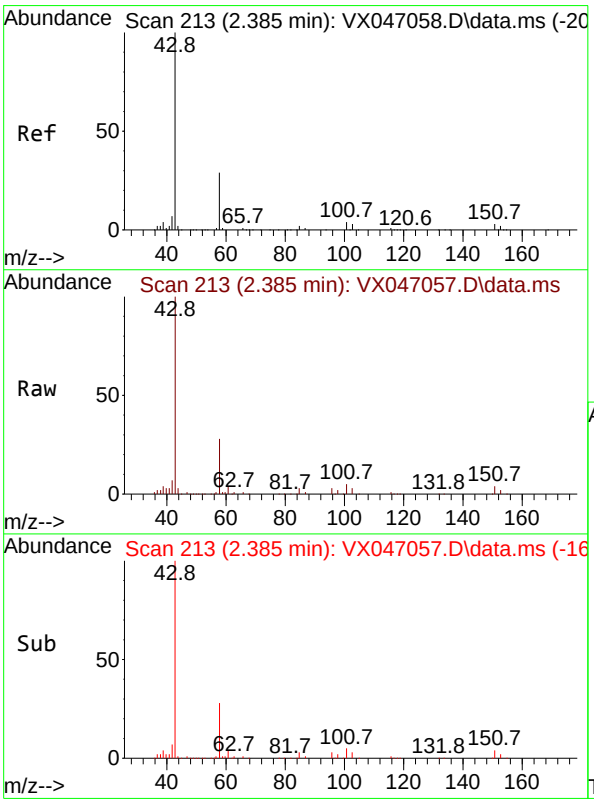
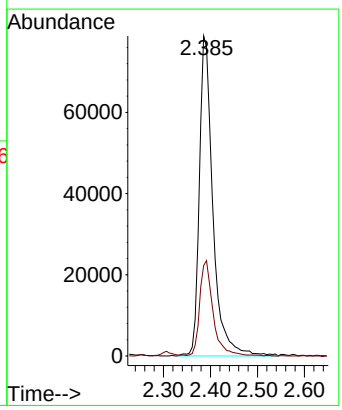
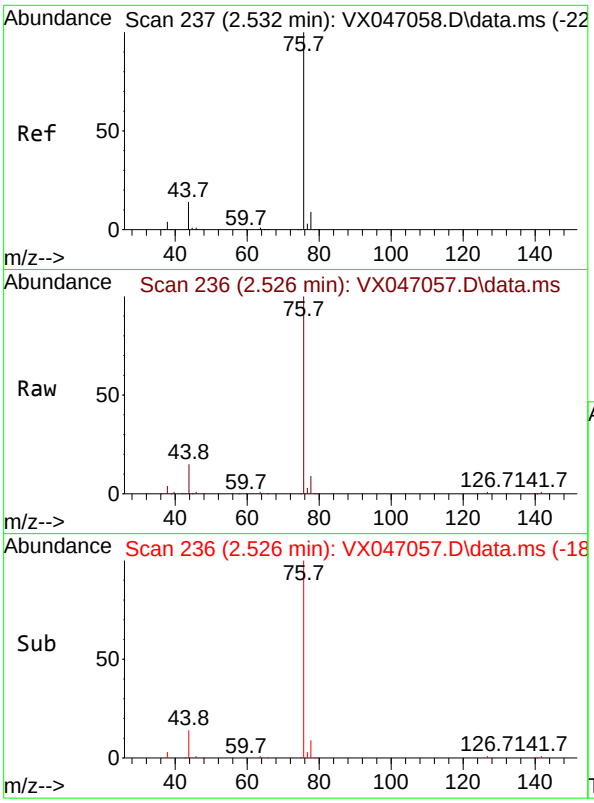


#16
Acetone
Concen: 98.619 ug/l
RT: 2.385 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 43 Resp: 157932

Ion	Ratio	Lower	Upper
43	100		
58	28.3	24.0	36.0

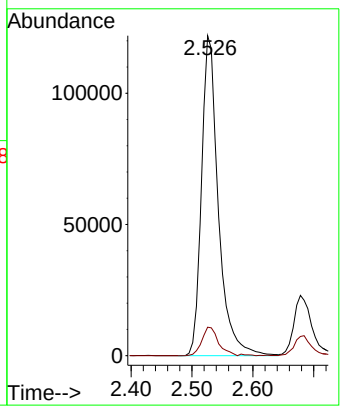




#17
Carbon Disulfide
Concen: 20.059 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 76 Resp: 23403

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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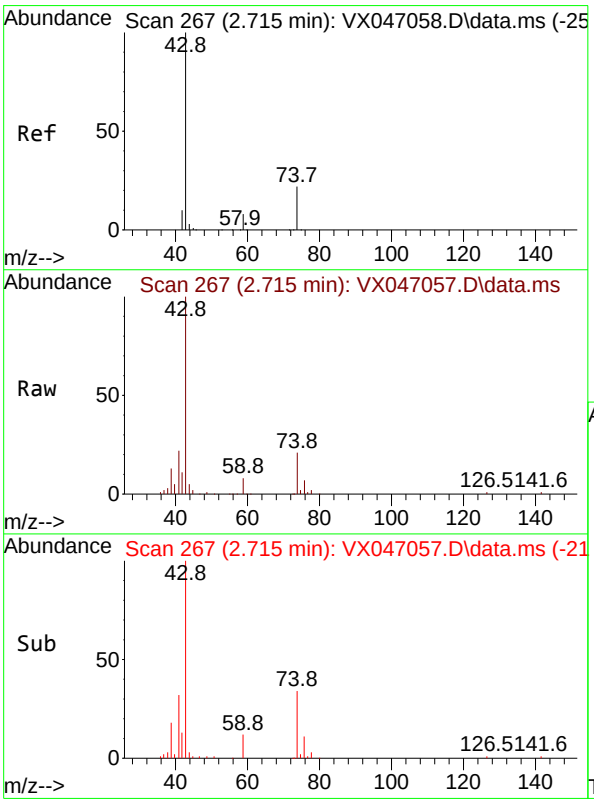
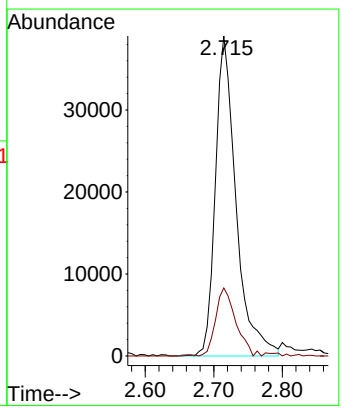
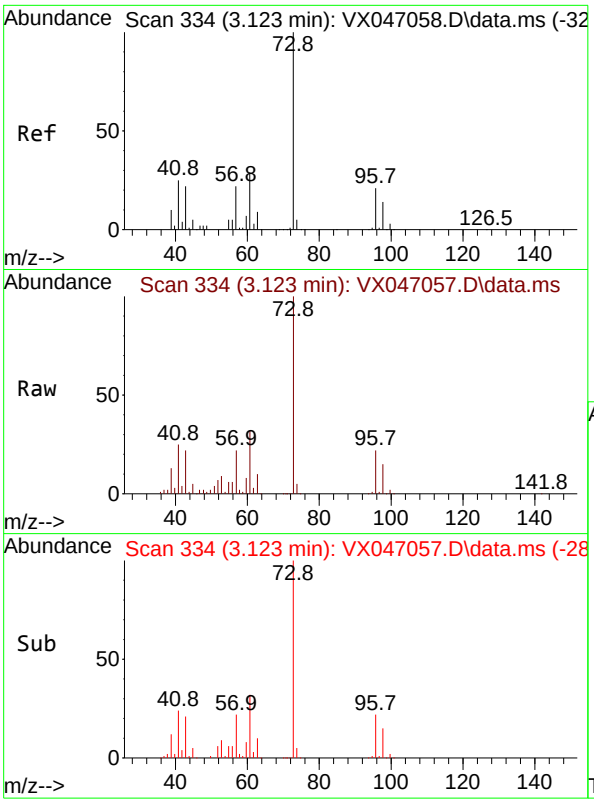


#18
Methyl Acetate
Concen: 19.180 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 43 Resp: 81624

Ion	Ratio	Lower	Upper
43	100		
74	20.8	17.7	26.5

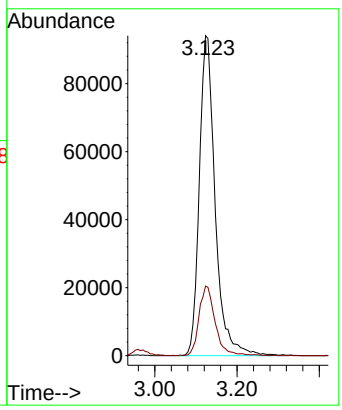




#19
Methyl tert-butyl Ether
Concen: 20.497 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 73 Resp: 25158

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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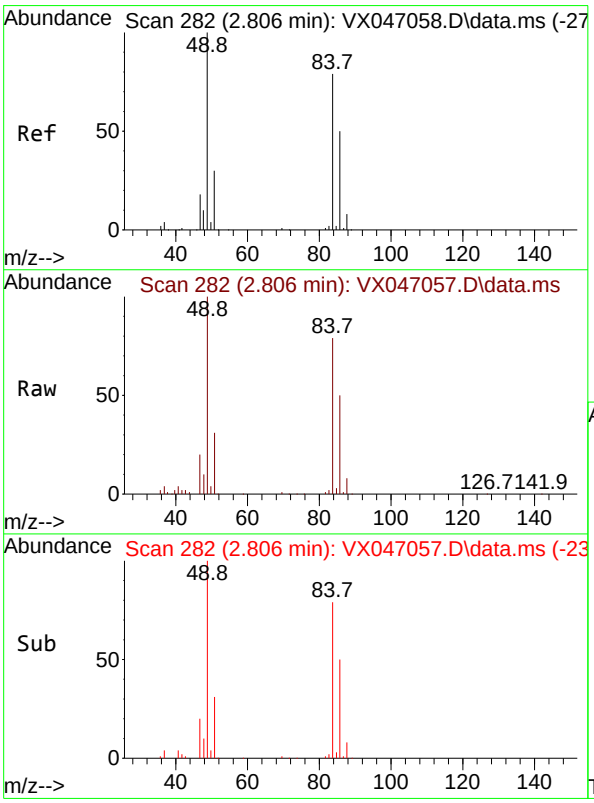
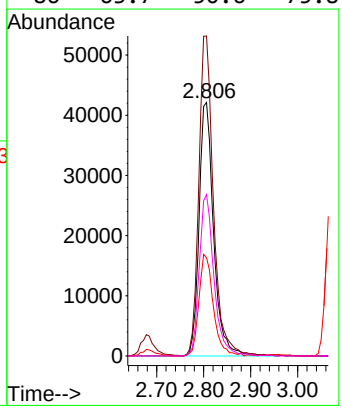
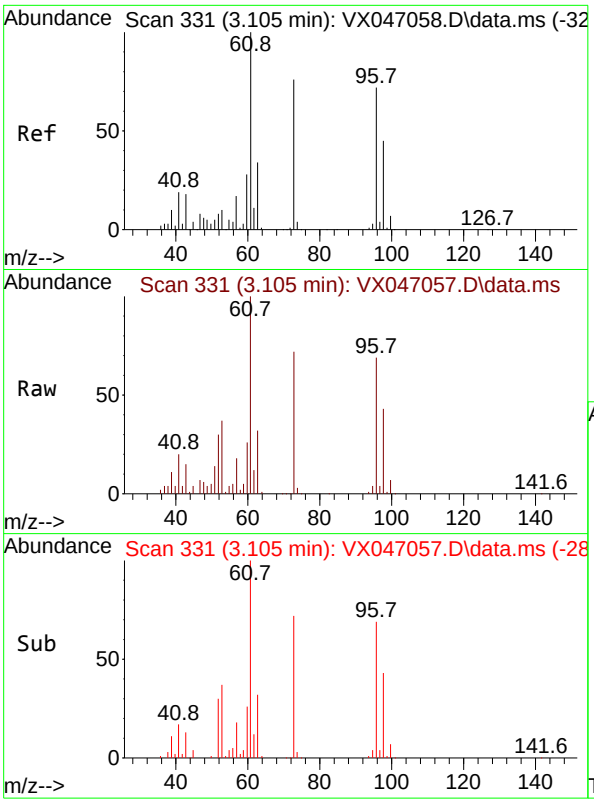


#20
Methylene Chloride
Concen: 20.621 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 84 Resp: 90849

Ion	Ratio	Lower	Upper
84	100		
49	126.0	101.6	152.4
51	38.7	30.3	45.5
86	63.7	50.6	75.8

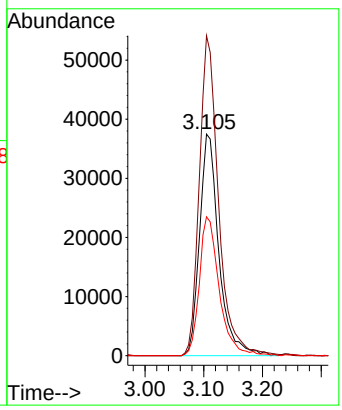




#21
trans-1,2-Dichloroethene
Concen: 20.738 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 96 Resp: 8558

Ion	Ratio	Lower	Upper
96	100		
61	144.4	111.1	166.7
98	62.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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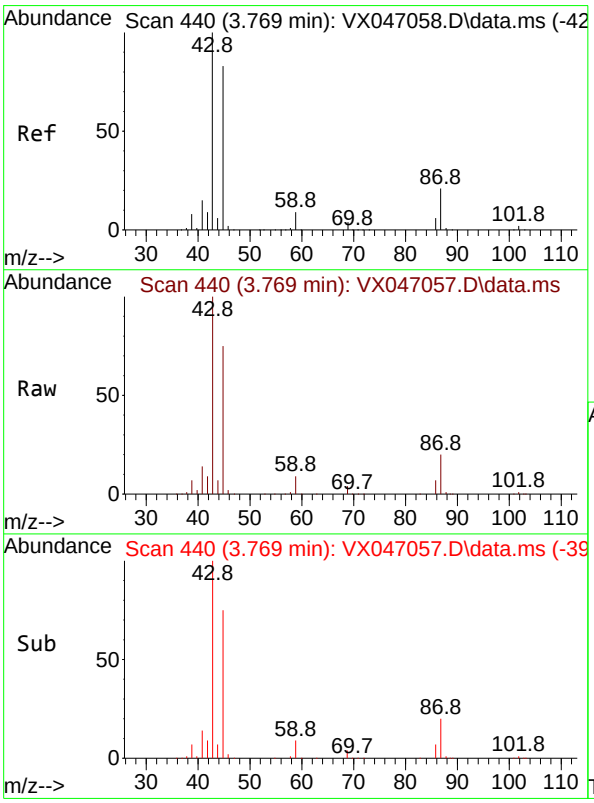
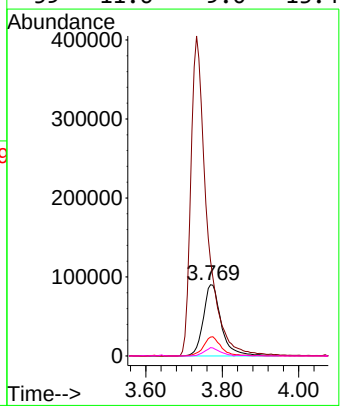
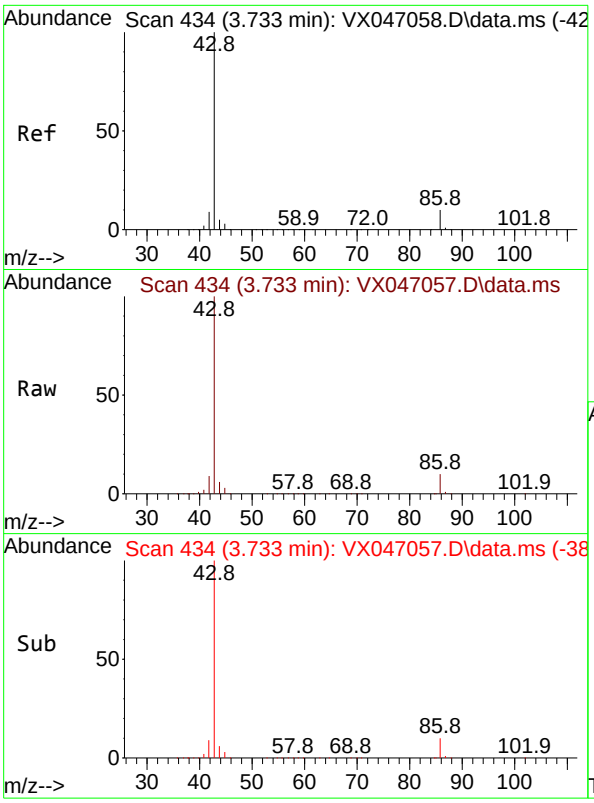


#22
Diisopropyl ether
Concen: 20.967 ug/l
RT: 3.769 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 45 Resp: 293875

Ion	Ratio	Lower	Upper
45	100		
43	133.7	96.8	145.2
87	26.6	20.5	30.7
59	11.6	9.0	13.4

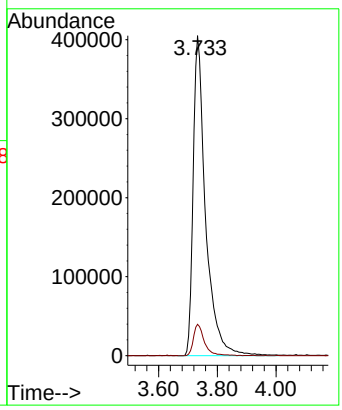




#23
Vinyl Acetate
Concen: 106.090 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 43 Resp: 119263

Ion	Ratio	Lower	Upper
43	100		
86	9.8	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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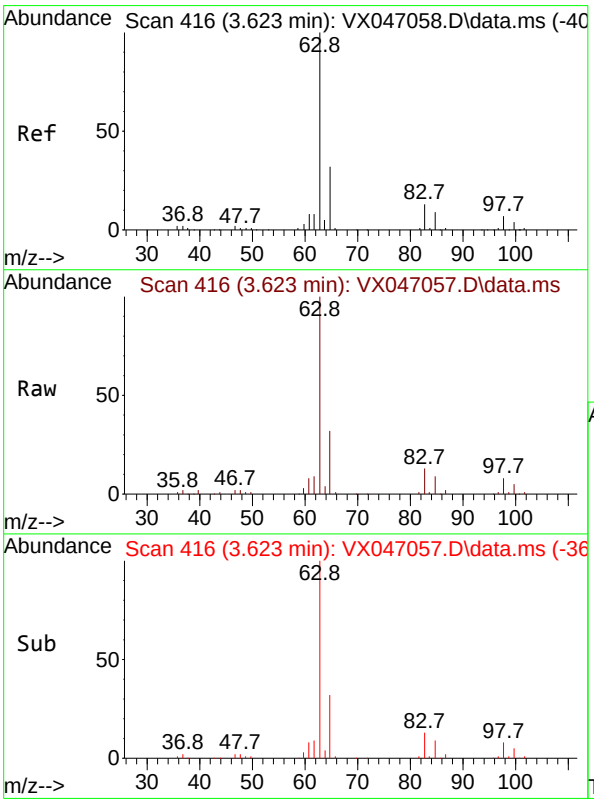
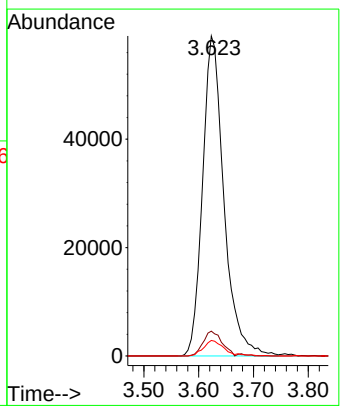
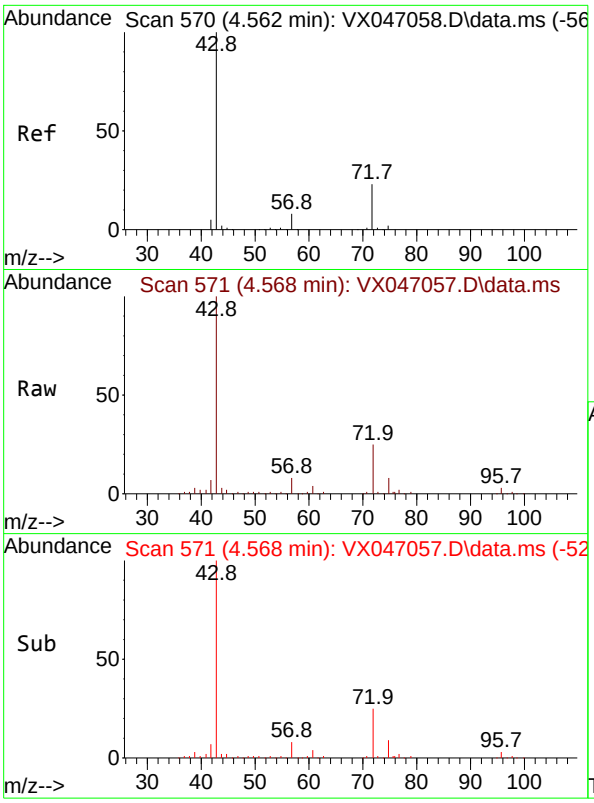


#24
1,1-Dichloroethane
Concen: 20.507 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 63 Resp: 159828

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.6	10.8
100	4.9	2.3	6.8





#25
2-Butanone
Concen: 102.172 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 43 Resp: 23824

Ion	Ratio	Lower	Upper
43	100		
72	24.9	18.8	28.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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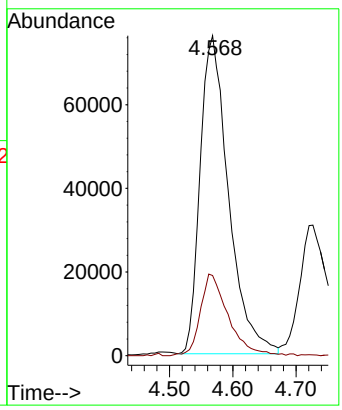
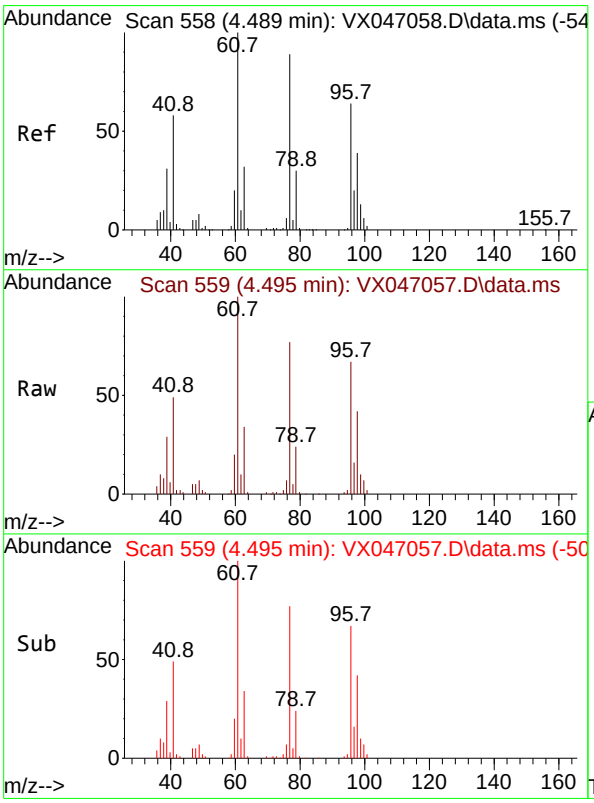
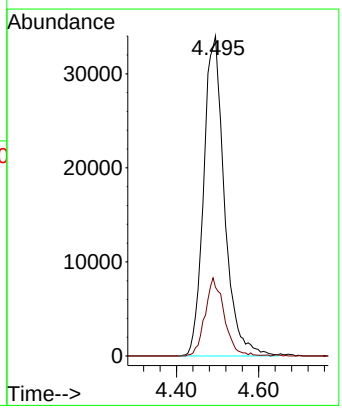


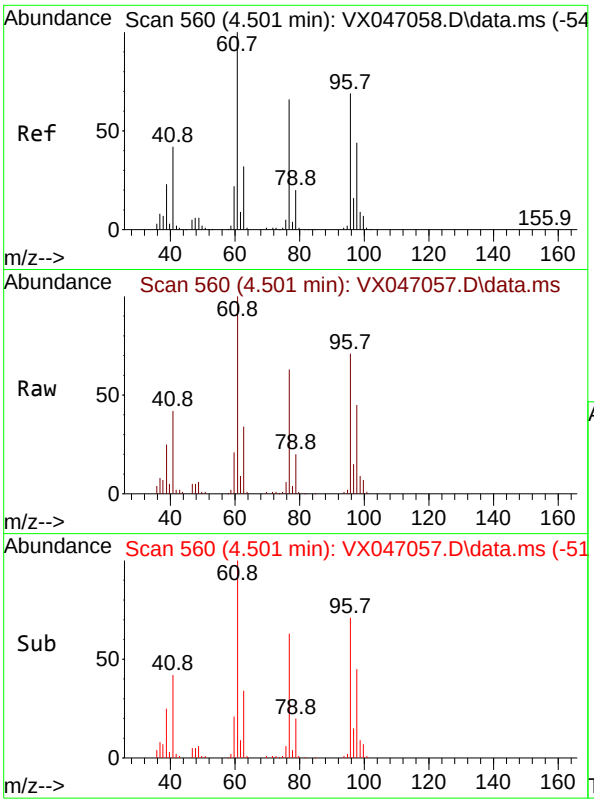


#26
2,2-Dichloropropane
Concen: 19.743 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 77 Resp: 119113

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.4	34.1

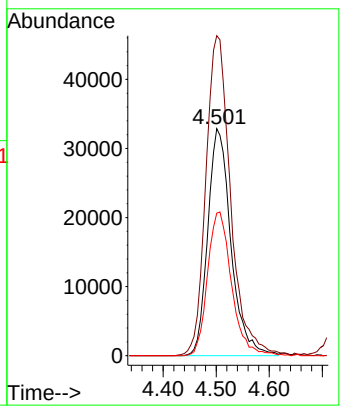




#27
cis-1,2-Dichloroethene
Concen: 20.420 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 96 Resp: 9979

Ion	Ratio	Lower	Upper
96	100		
61	150.3	0.0	298.6
98	65.4	0.0	128.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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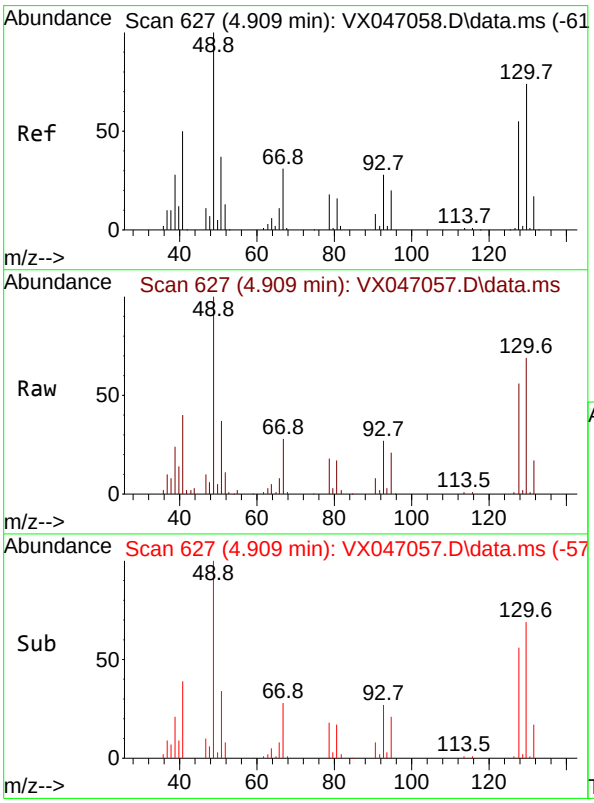
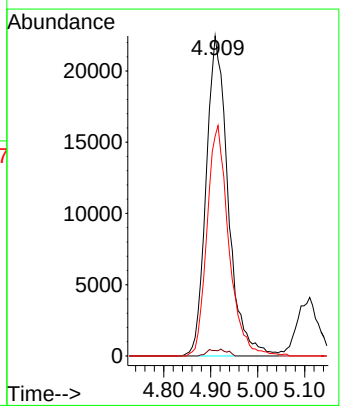
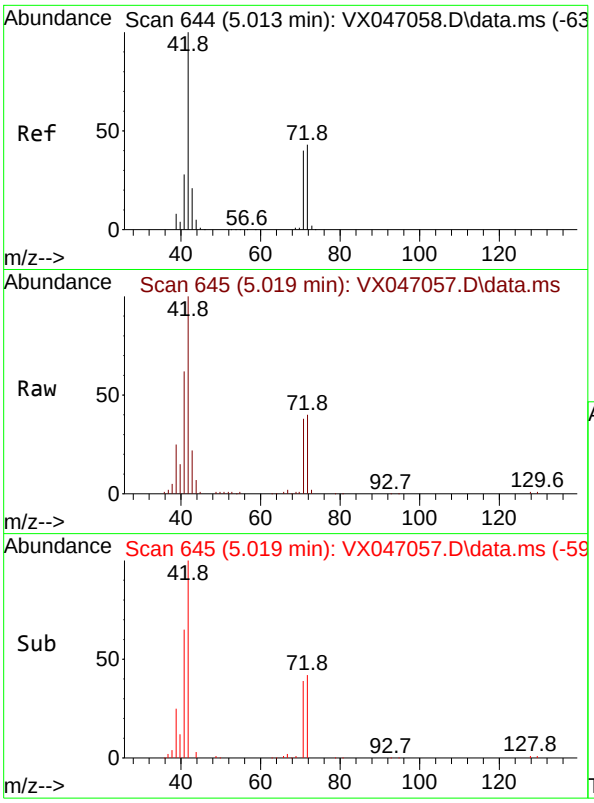


#28
Bromochloromethane
Concen: 20.334 ug/l
RT: 4.909 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 49 Resp: 72912

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.8
130	71.3	59.0	88.4

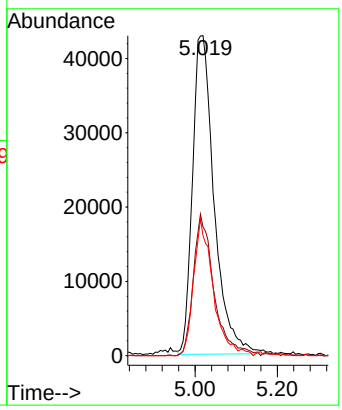




#29
Tetrahydrofuran
Concen: 104.232 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 42 Resp: 15681

Ion	Ratio	Lower	Upper
42	100		
72	42.2	33.7	50.5
71	38.6	31.0	46.4



Instrument :
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ClientSampleId :
VSTDICC020

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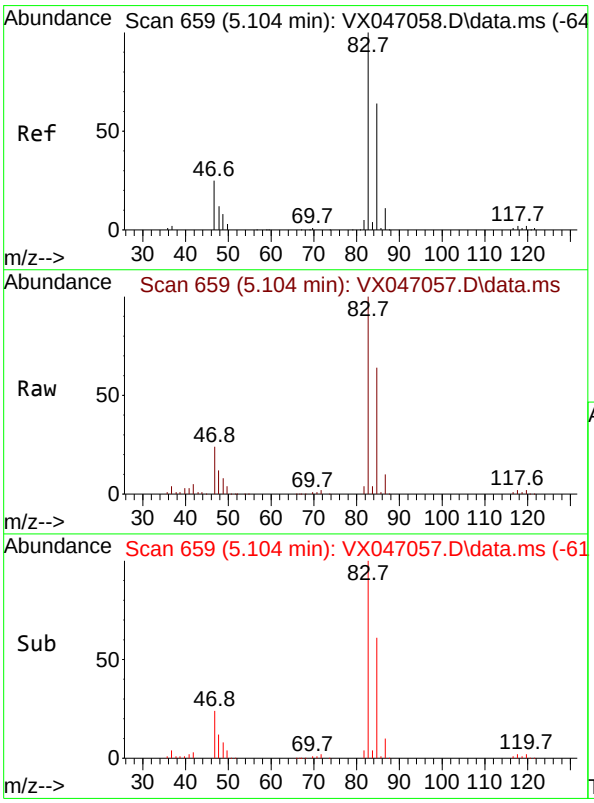
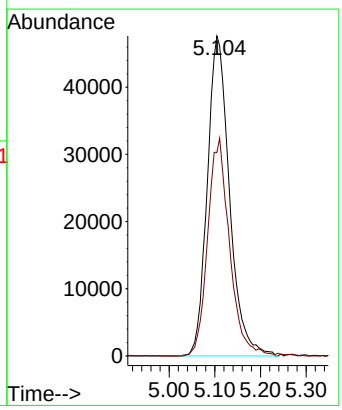
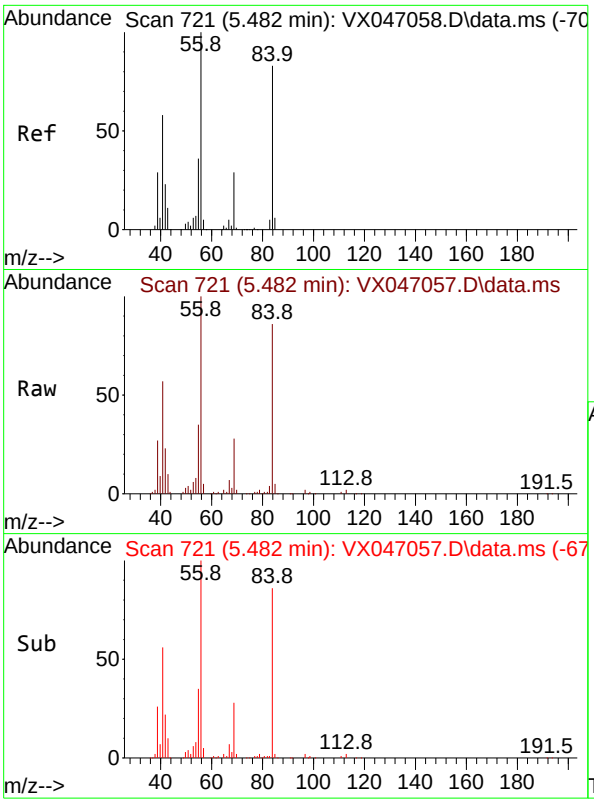


#30
Chloroform
Concen: 20.255 ug/l
RT: 5.104 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 83 Resp: 160698

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3

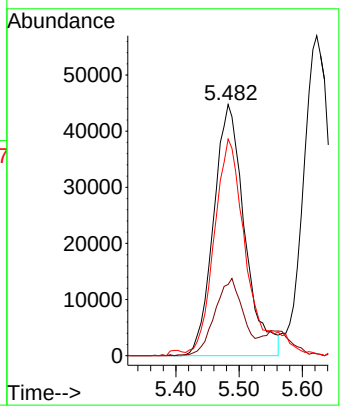




#31
Cyclohexane
Concen: 20.397 ug/l
RT: 5.482 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 56 Resp: 15243

Ion	Ratio	Lower	Upper
56	100		
69	28.0	23.3	34.9
84	84.2	66.5	99.7



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VSTDICC020

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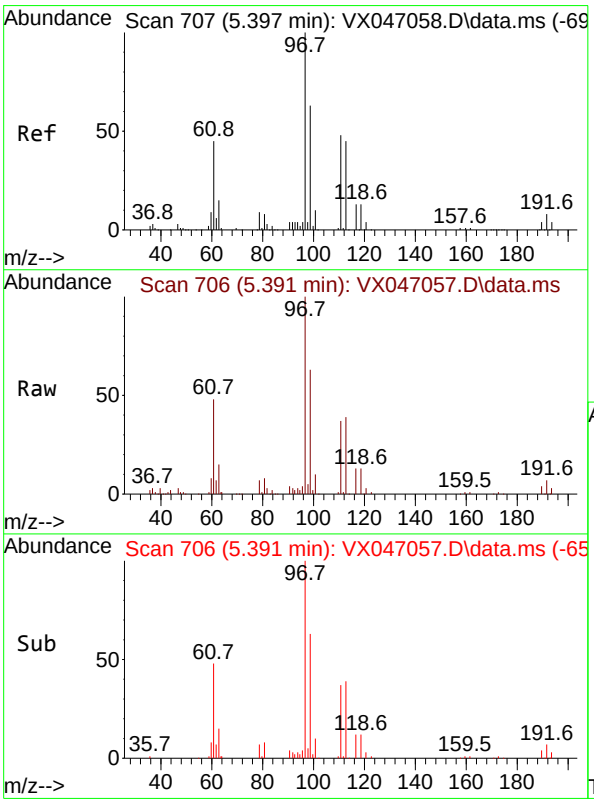
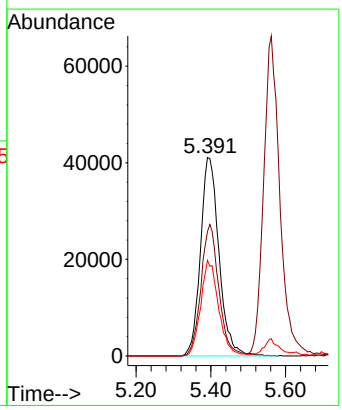
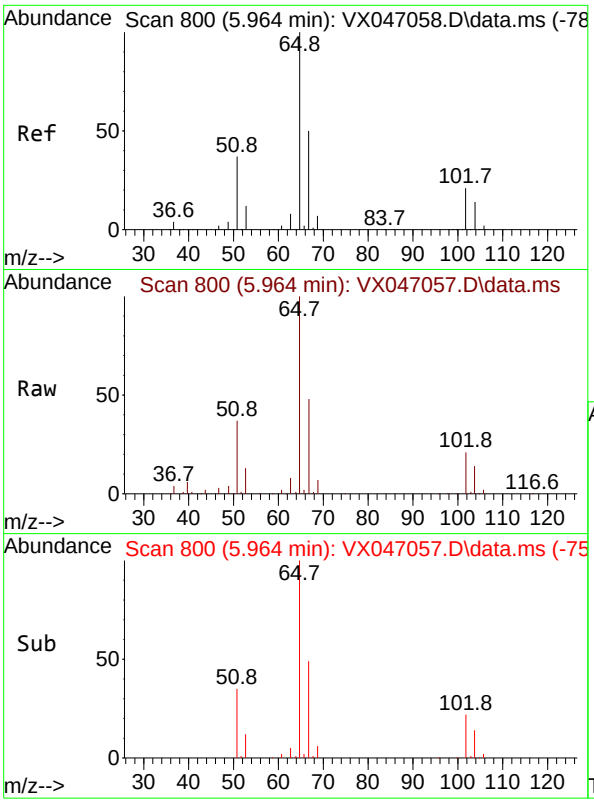


#32
1,1,1-Trichloroethane
Concen: 20.503 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 97 Resp: 141289

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.2	76.8
61	46.7	37.1	55.7

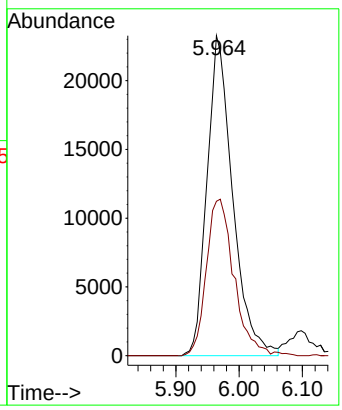




#33
1,2-Dichloroethane-d4
Concen: 16.395 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 65 Resp: 6554

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	104.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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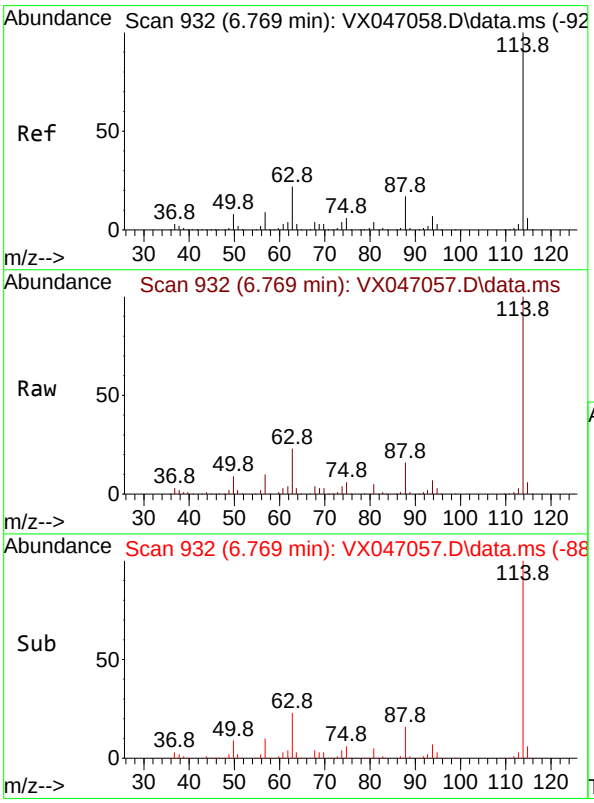
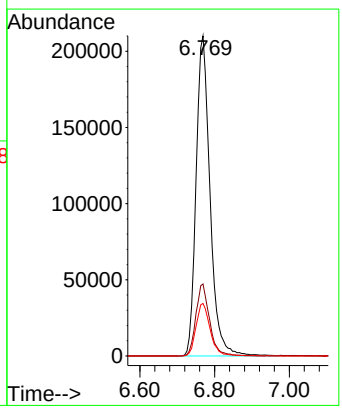
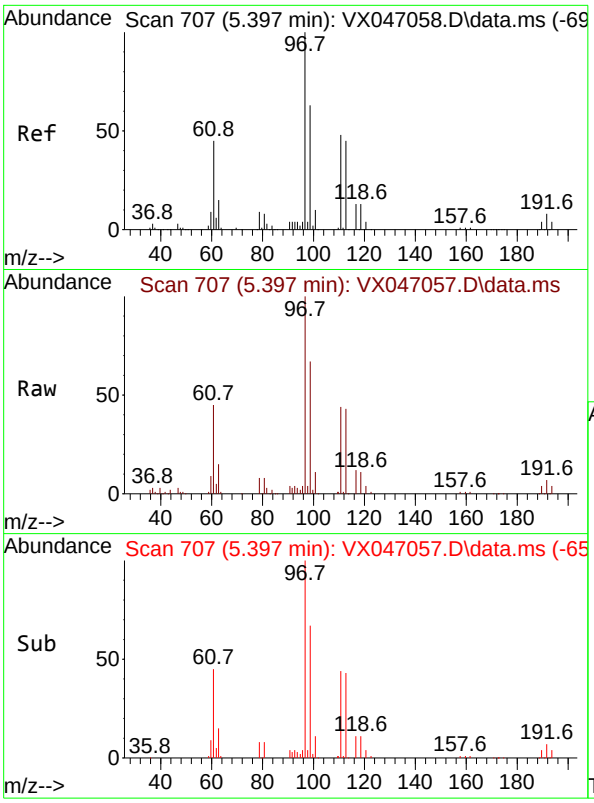


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:114 Resp: 544303

Ion	Ratio	Lower	Upper
114	100		
63	25.5	0.0	43.2
88	16.4	0.0	33.8

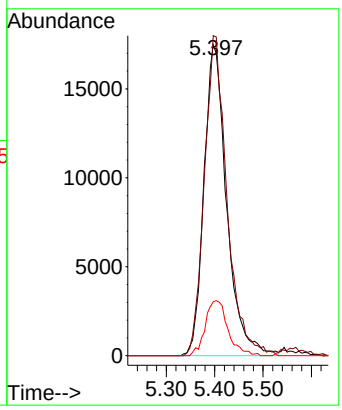




#35
Dibromofluoromethane
Concen: 16.992 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:113 Resp: 5710

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.6	124.0
192	17.6	14.9	22.3



Instrument :
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ClientSampleId :
VSTDICC020

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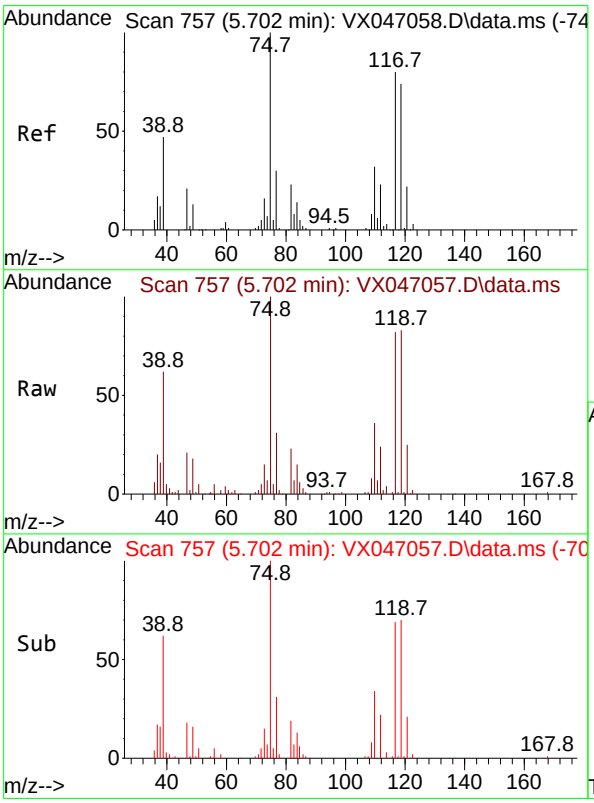
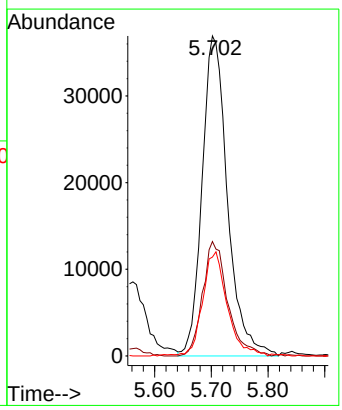
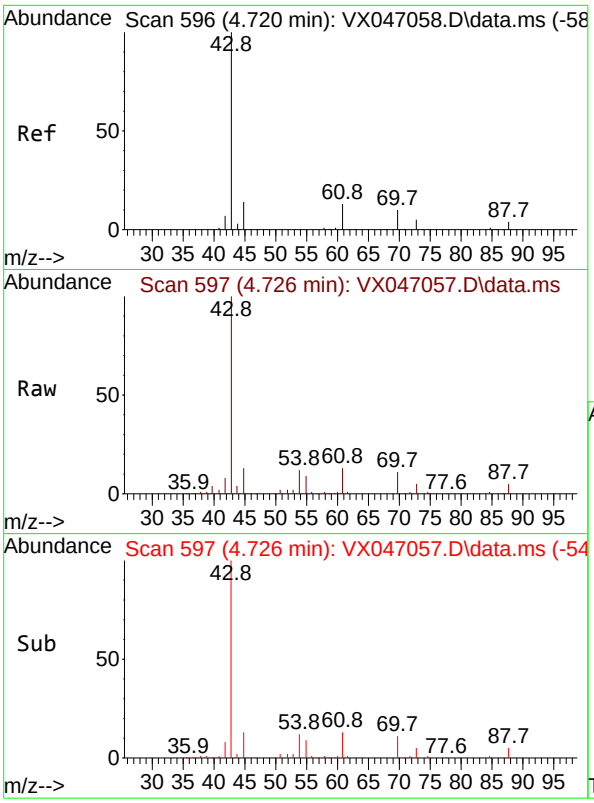


#36
1,1-Dichloropropene
Concen: 20.062 ug/l
RT: 5.702 min Scan# 757
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 75 Resp: 114925

Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.2	51.5
77	31.4	25.1	37.7

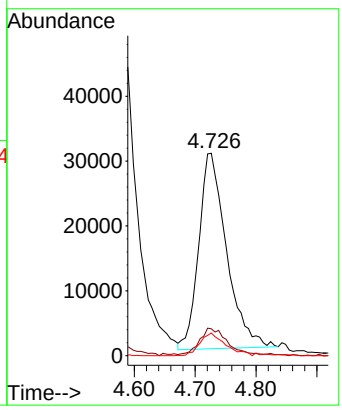




#37
Ethyl Acetate
Concen: 18.907 ug/l
RT: 4.726 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 43 Resp: 9545

Ion	Ratio	Lower	Upper
43	100		
61	13.1	10.2	15.2
70	10.6	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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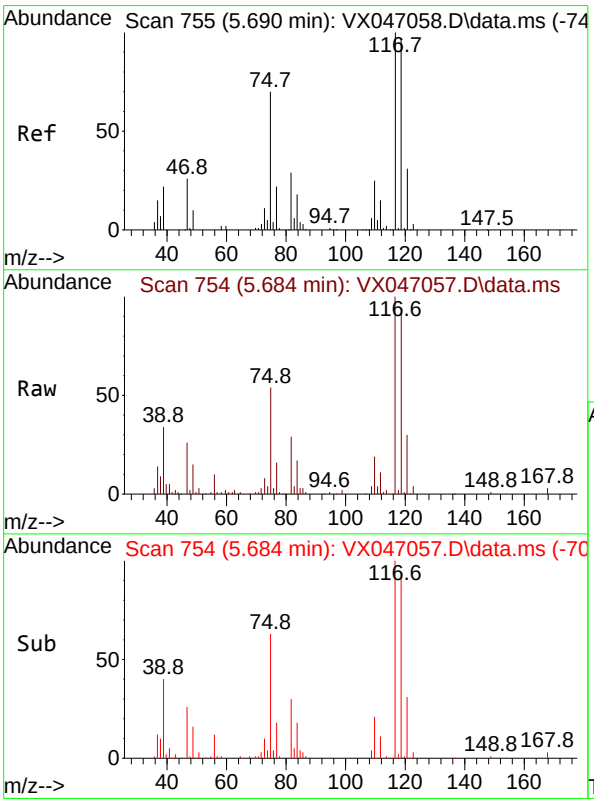
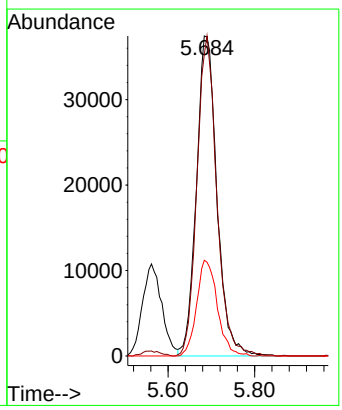
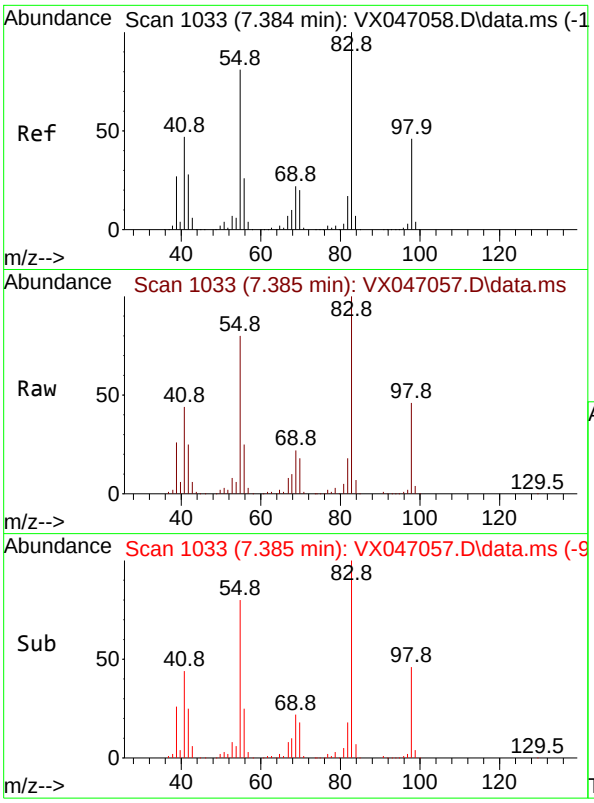


#38
Carbon Tetrachloride
Concen: 20.150 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:117 Resp: 123204

Ion	Ratio	Lower	Upper
117	100		
119	94.2	76.6	115.0
121	29.9	24.4	36.6

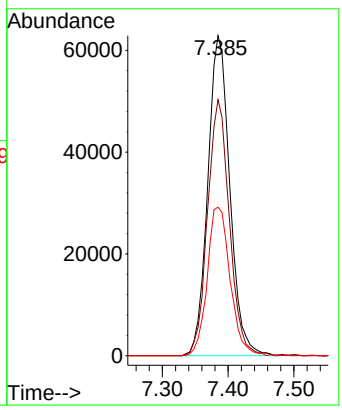




#39
Methylcyclohexane
Concen: 20.519 ug/l
RT: 7.385 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 83 Resp: 14676

Ion	Ratio	Lower	Upper
83	100		
55	80.0	64.5	96.7
98	46.4	36.9	55.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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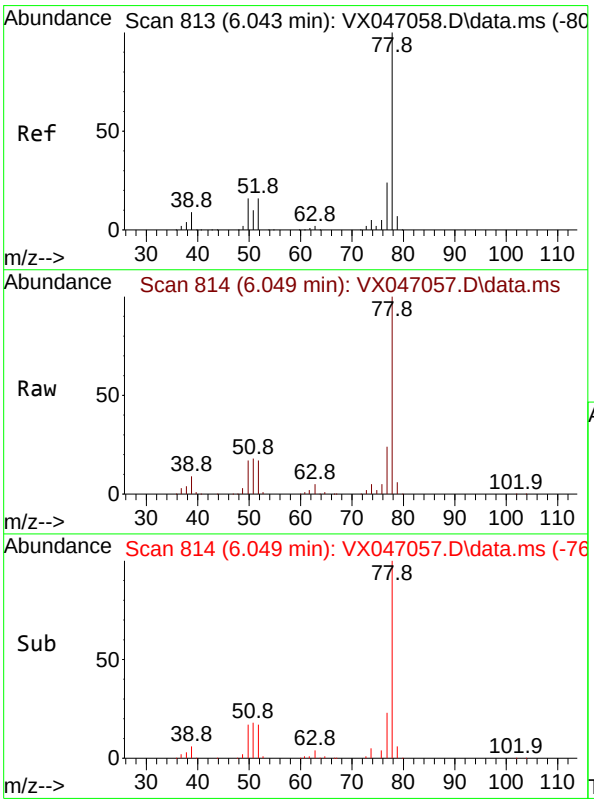
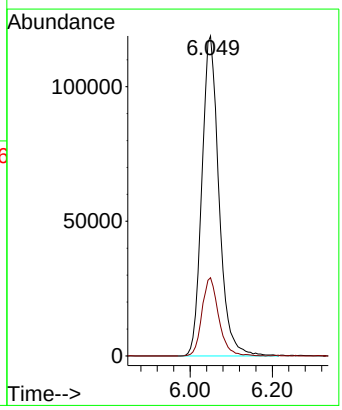
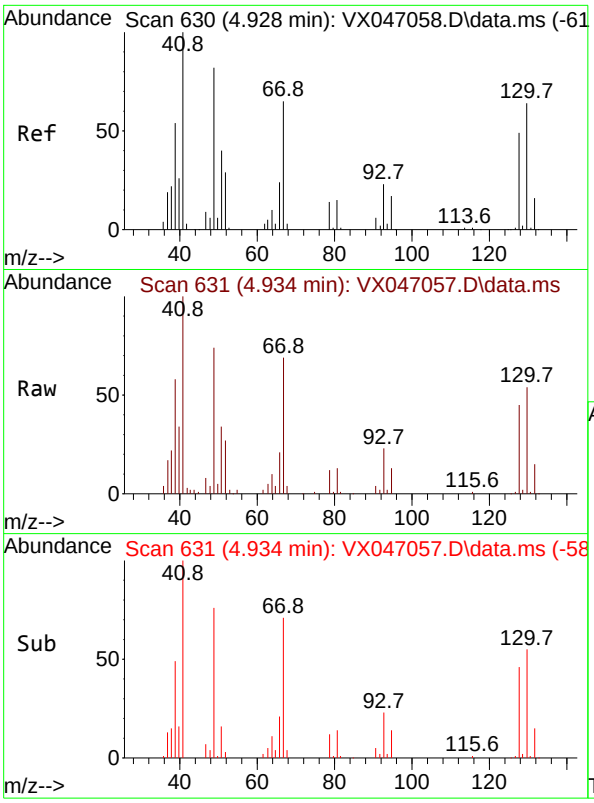


#40
Benzene
Concen: 20.656 ug/l
RT: 6.049 min Scan# 814
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 78 Resp: 342454

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.4

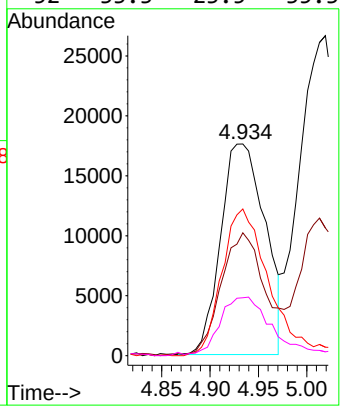




#41
Methacrylonitrile
Concen: 20.350 ug/l
RT: 4.934 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 41 Resp: 5616

Ion	Ratio	Lower	Upper
41	100		
39	58.8	44.2	66.2
67	74.5	56.4	84.6
52	33.3	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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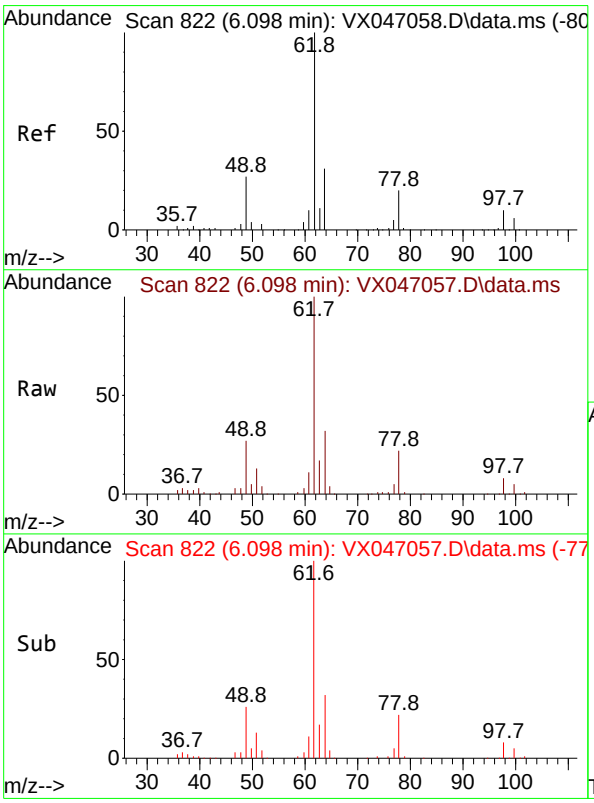
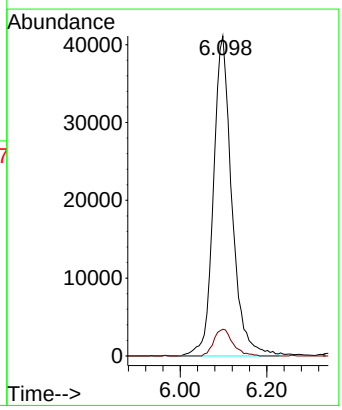
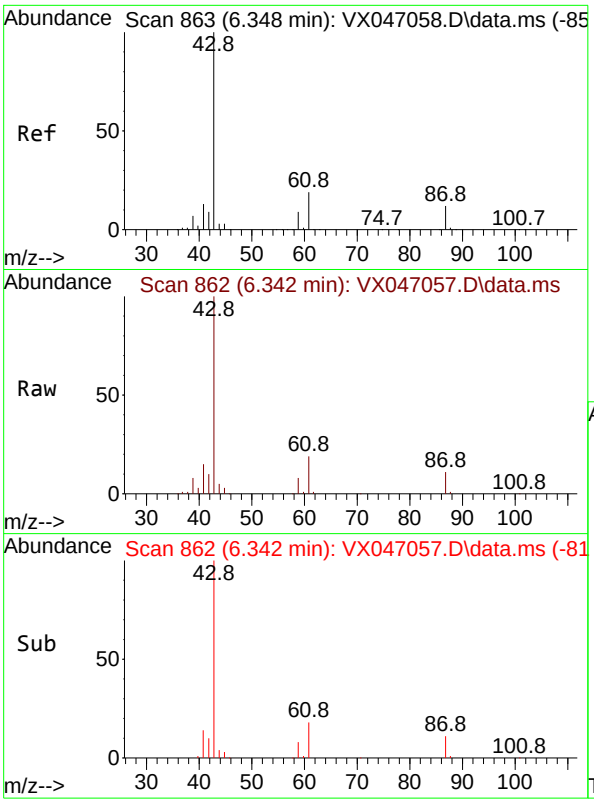


#42
1,2-Dichloroethane
Concen: 20.808 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 62 Resp: 121515

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	18.8

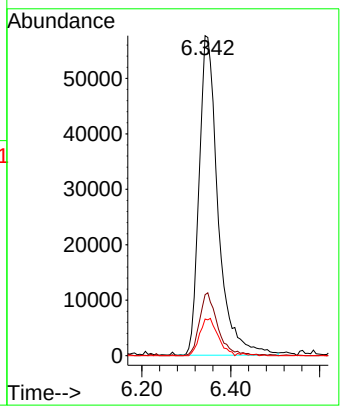




#43
Isopropyl Acetate
Concen: 20.802 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 43 Resp: 17118

Ion	Ratio	Lower	Upper
43	100		
61	18.8	15.1	22.7
87	11.2	9.7	14.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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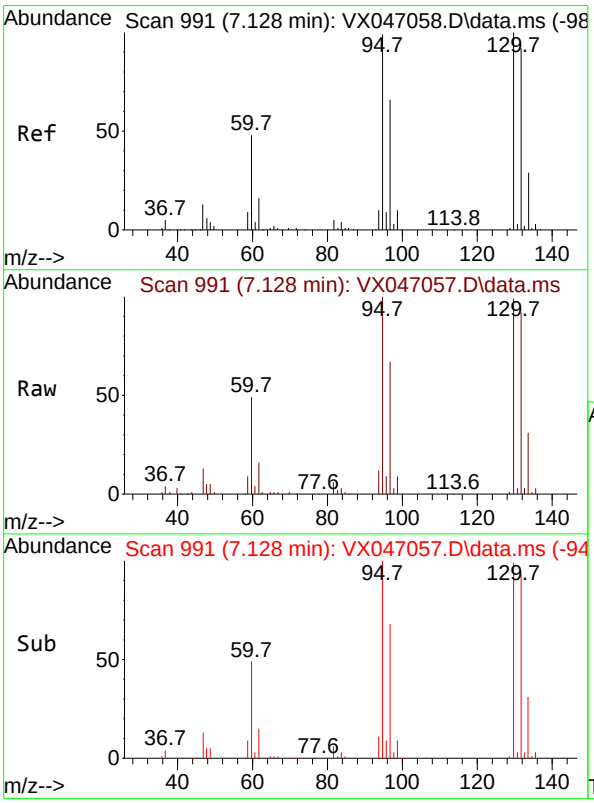
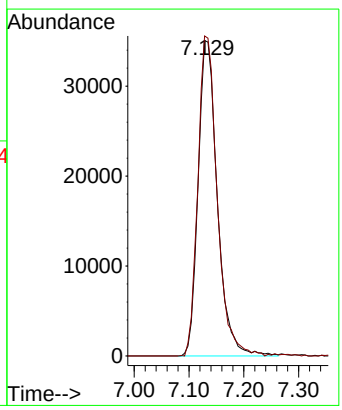
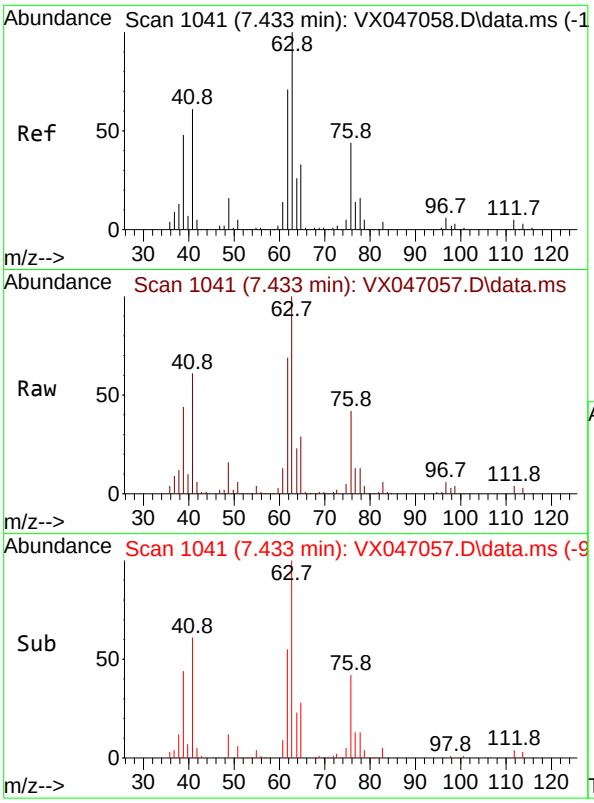


#44
Trichloroethene
Concen: 20.099 ug/l
RT: 7.128 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:130 Resp: 85446

Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	198.6

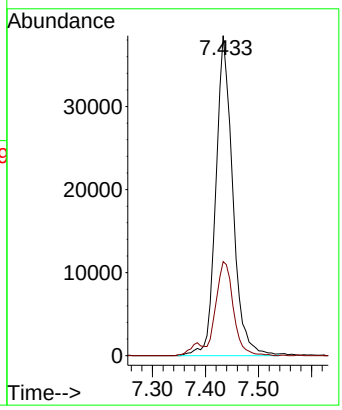




#45
1,2-Dichloropropane
Concen: 20.603 ug/l
RT: 7.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 63 Resp: 8554

Ion	Ratio	Lower	Upper
63	100		
65	29.4	26.3	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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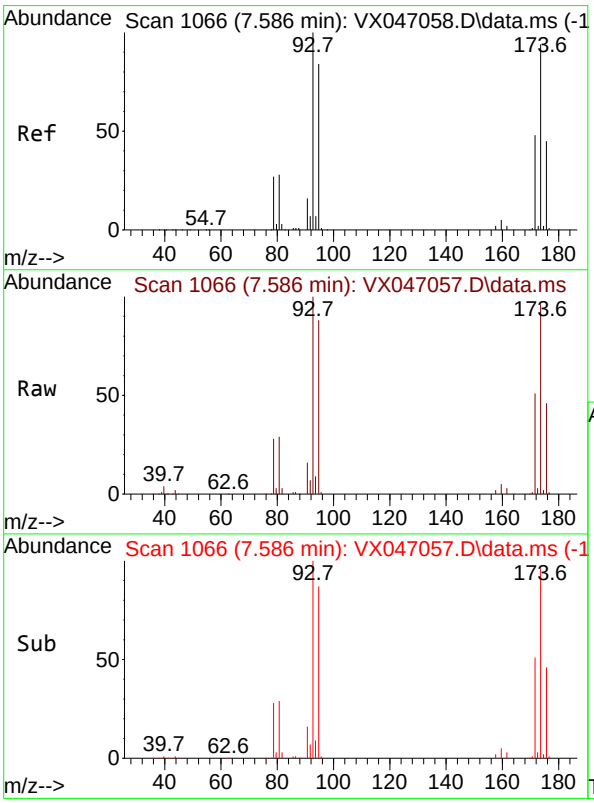
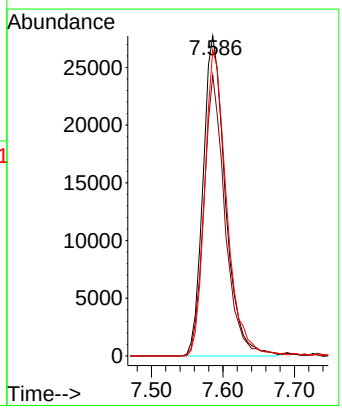
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

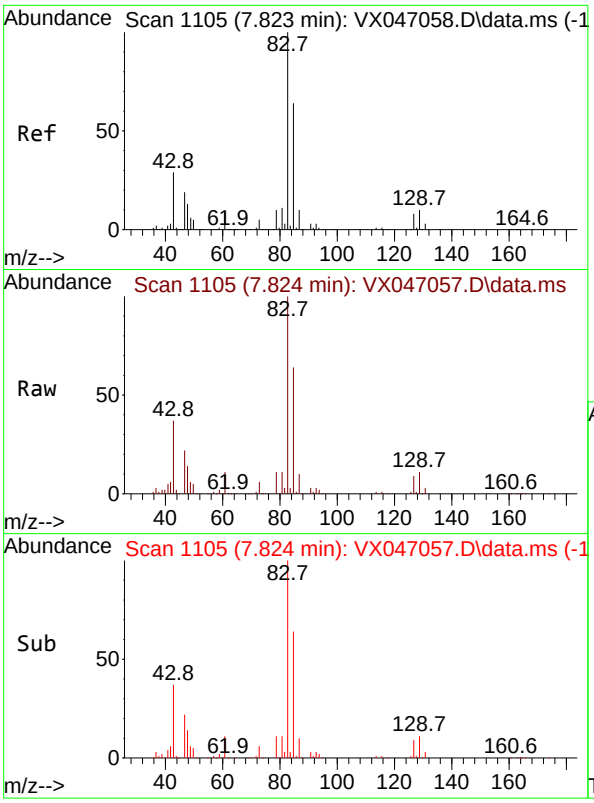


#46
Dibromomethane
Concen: 20.588 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 93 Resp: 59949

Ion	Ratio	Lower	Upper
93	100		
95	83.4	65.9	98.9
174	94.2	74.6	112.0

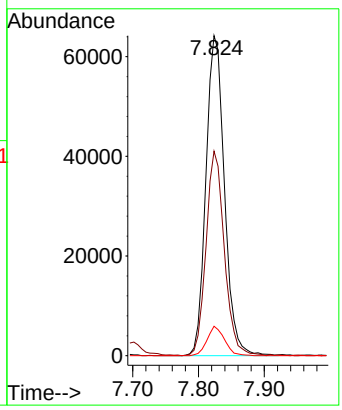




#47
Bromodichloromethane
Concen: 20.345 ug/l
RT: 7.824 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 83 Resp: 12609

Ion	Ratio	Lower	Upper
83	100		
85	62.1	49.9	74.9
127	9.0	6.6	10.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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Reviewed By :John Carlone 07/22/2025
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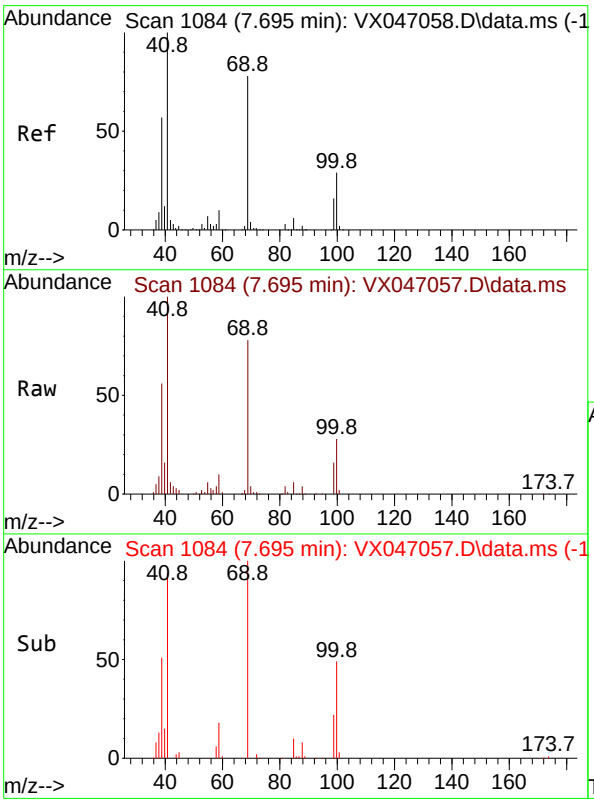
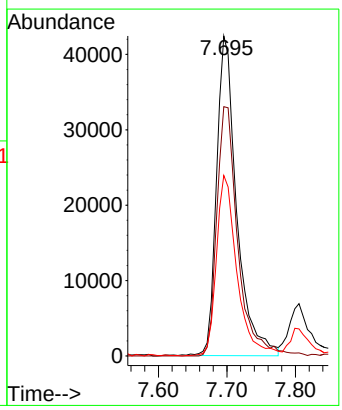
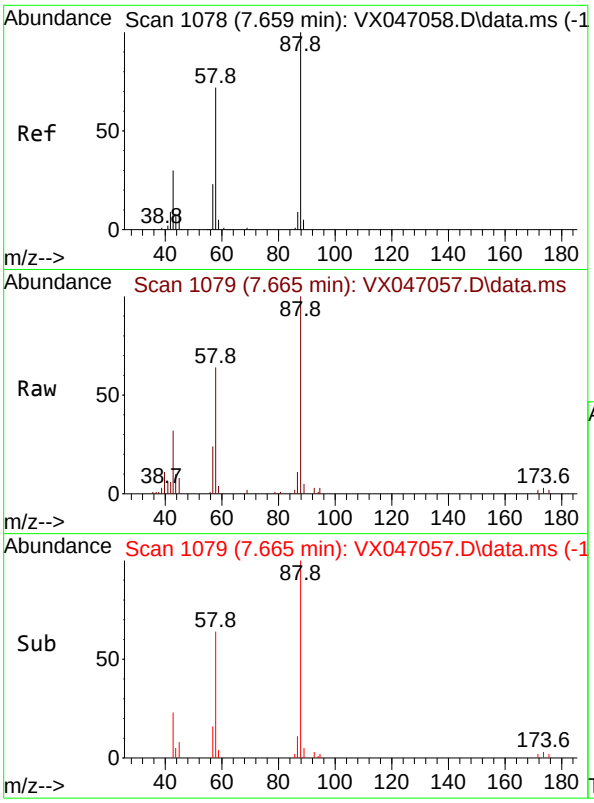


#48
Methyl methacrylate
Concen: 19.269 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 41 Resp: 86386

Ion	Ratio	Lower	Upper
41	100		
69	81.4	62.3	93.5
39	57.8	44.8	67.2

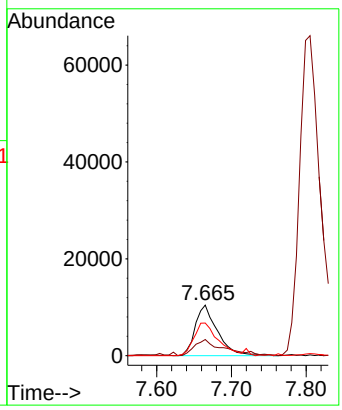




#49
1,4-Dioxane
Concen: 422.133 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 88 Resp: 2152

Ion	Ratio	Lower	Upper
88	100		
43	42.4	33.6	50.4
58	69.9	58.8	88.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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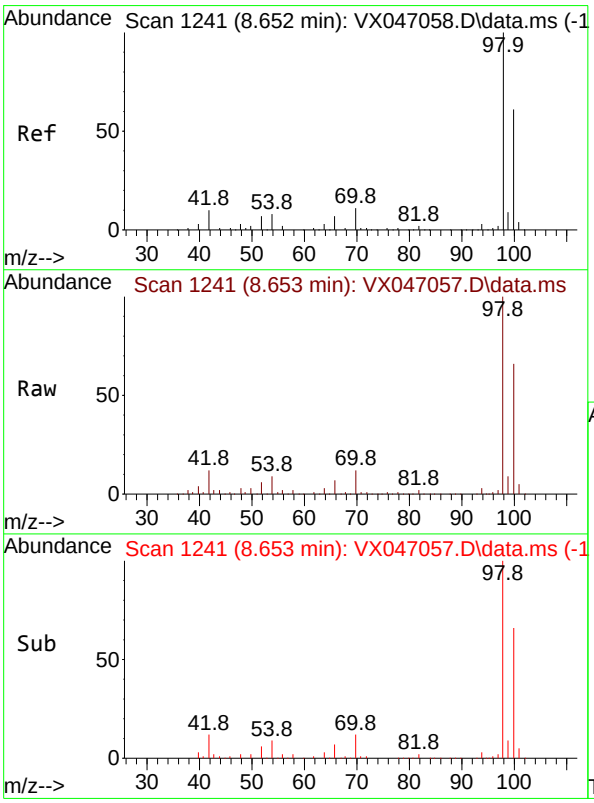
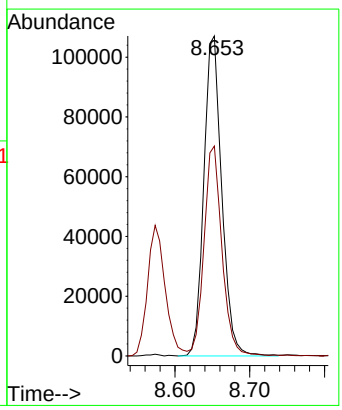
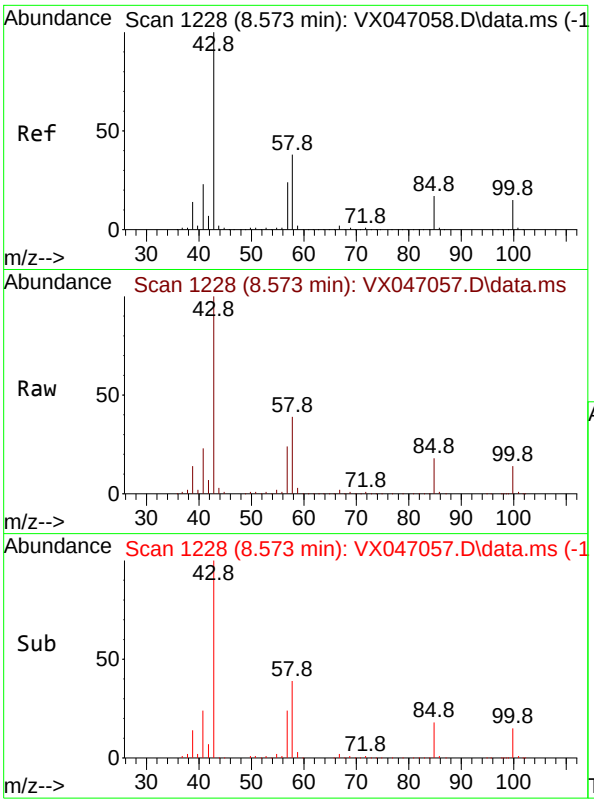


#50
Toluene-d8
Concen: 16.431 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 98 Resp: 178825

Ion	Ratio	Lower	Upper
98	100		
100	65.1	53.3	79.9





#51
4-Methyl-2-Pentanone
Concen: 104.532 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 43 Resp: 51130

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.6	45.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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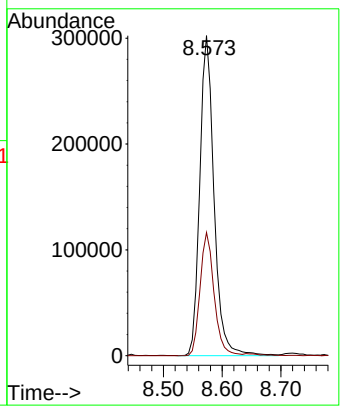
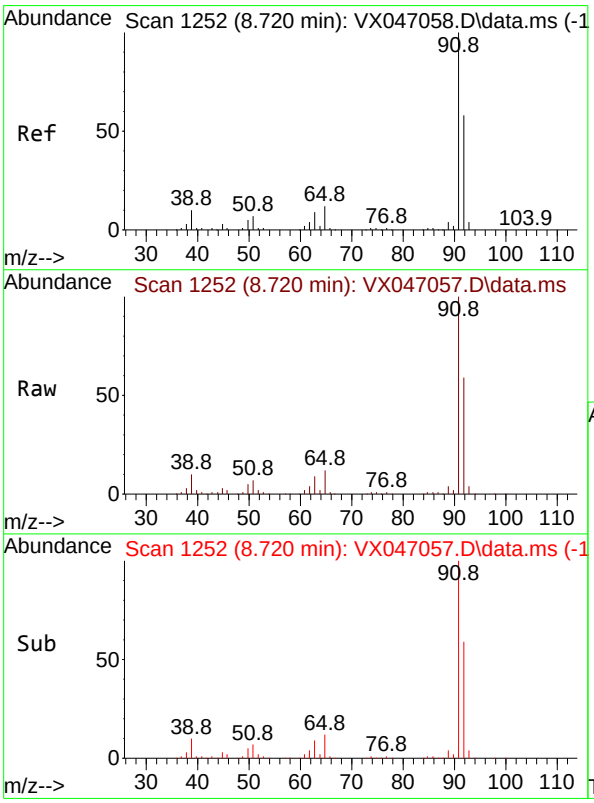
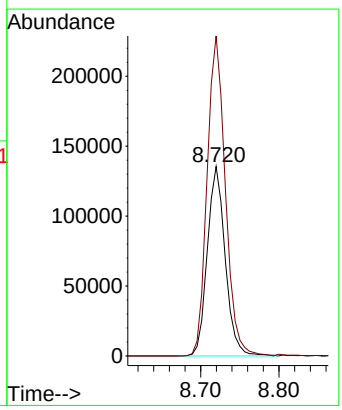


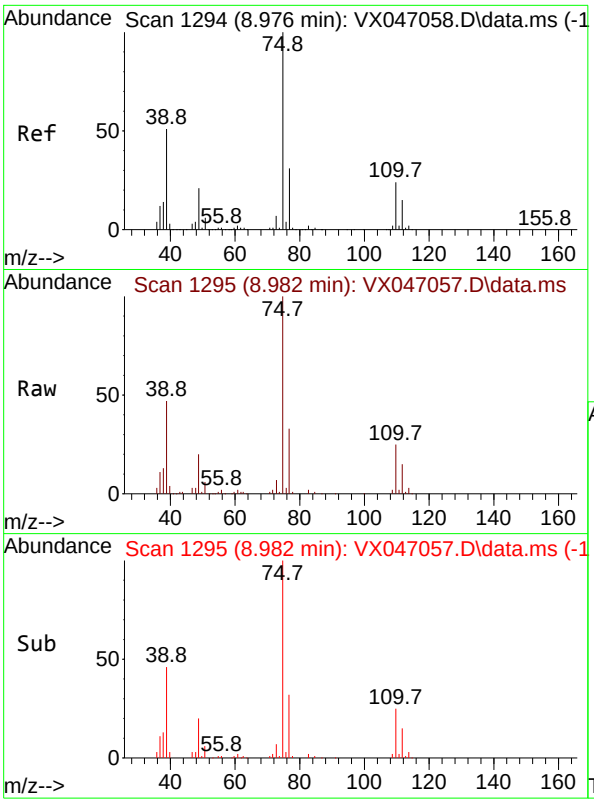


#52
Toluene
Concen: 21.087 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 92 Resp: 214955

Ion	Ratio	Lower	Upper
92	100		
91	172.1	137.9	206.9





#53
t-1,3-Dichloropropene
Concen: 20.311 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 75 Resp: 11887

Ion	Ratio	Lower	Upper
75	100		
77	32.6	24.5	36.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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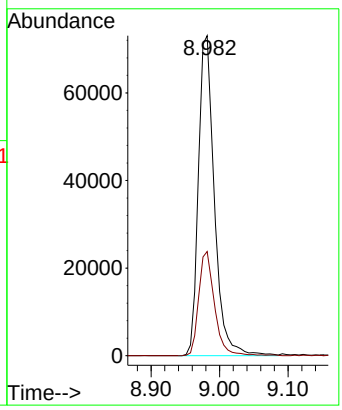
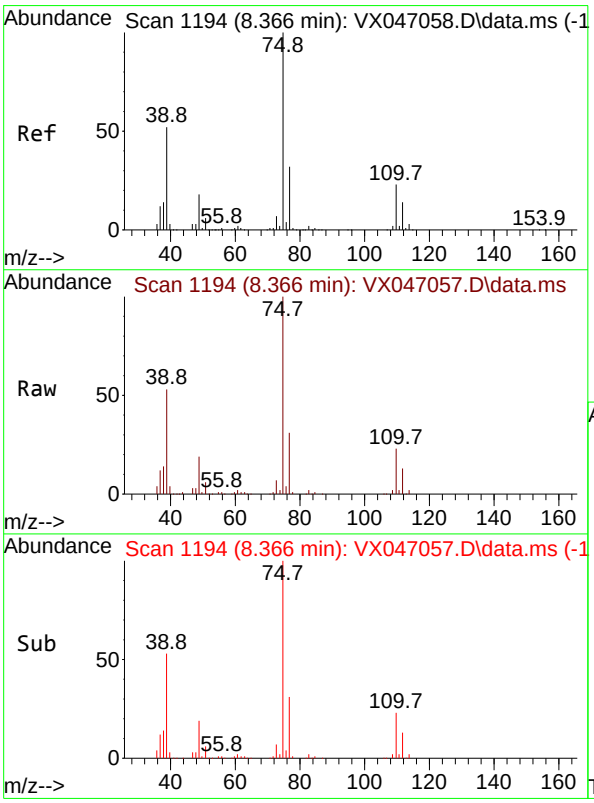
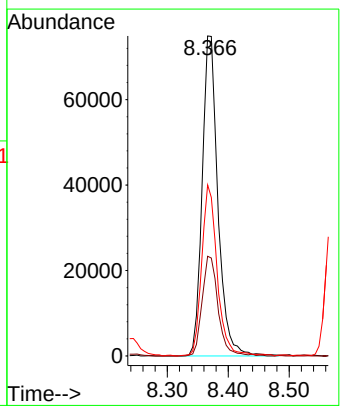


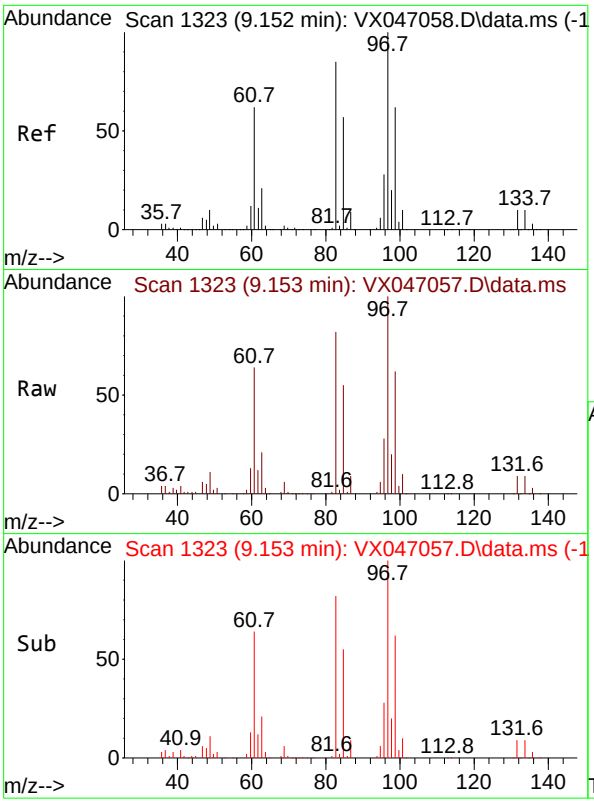


#54
cis-1,3-Dichloropropene
Concen: 21.011 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 75 Resp: 134587

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.0
39	53.5	41.8	62.6

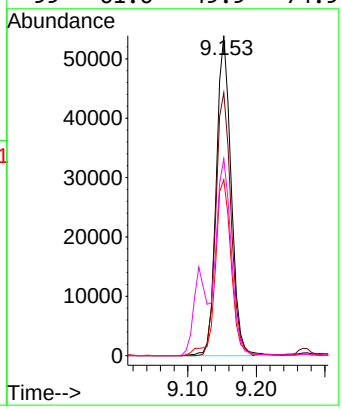




#55
1,1,2-Trichloroethane
Concen: 21.224 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 97 Resp: 8113

Ion	Ratio	Lower	Upper
97	100		
83	82.2	68.0	102.0
85	55.0	45.2	67.8
99	61.6	49.9	74.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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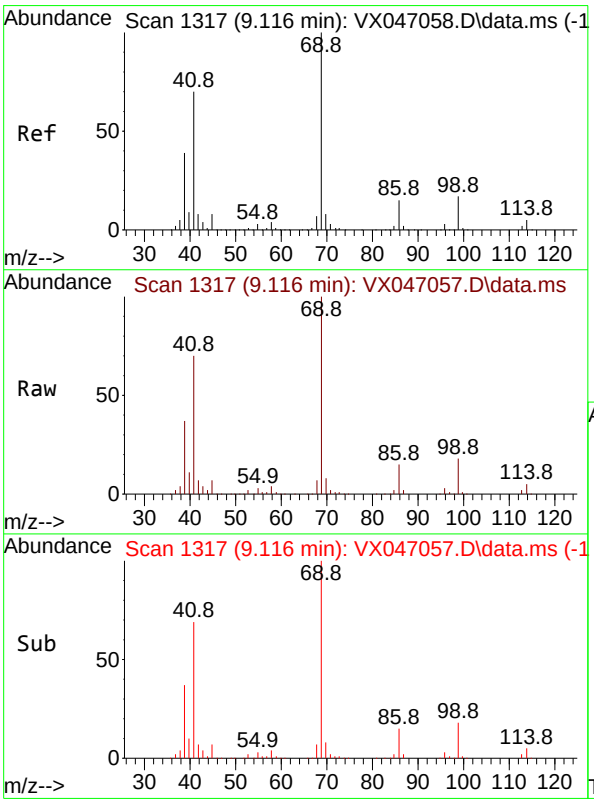
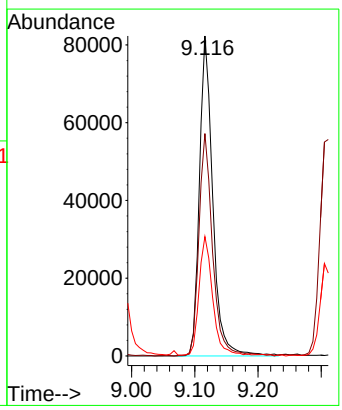
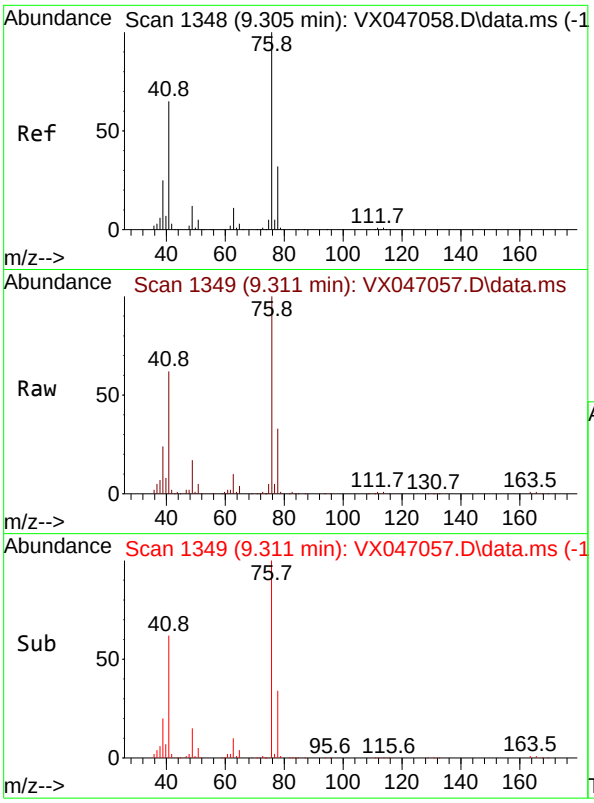


#56
Ethyl methacrylate
Concen: 21.389 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 69 Resp: 121053

Ion	Ratio	Lower	Upper
69	100		
41	71.5	56.1	84.1
39	37.6	31.1	46.7

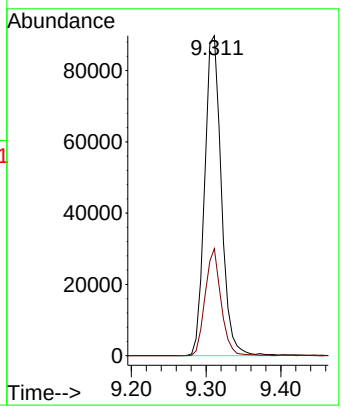




#57
1,3-Dichloropropane
Concen: 20.925 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 76 Resp: 13903

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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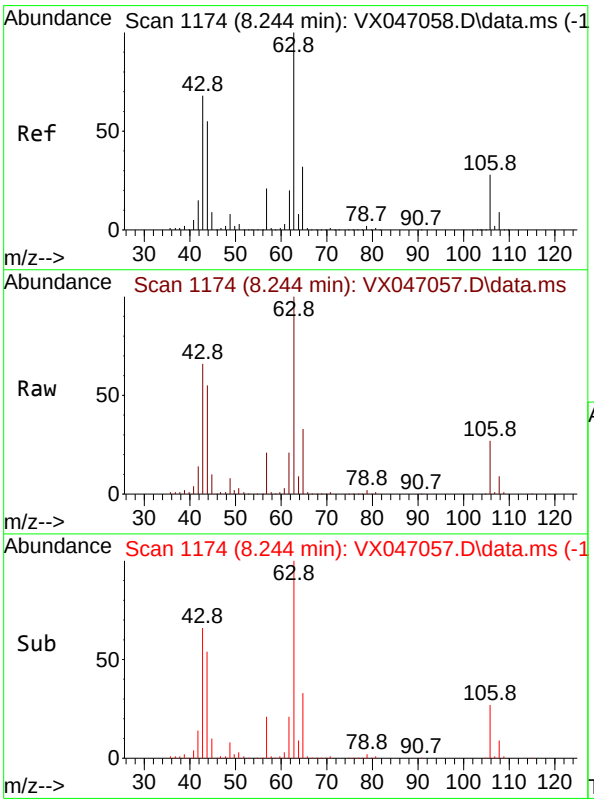
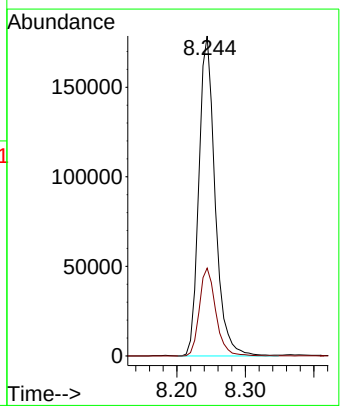
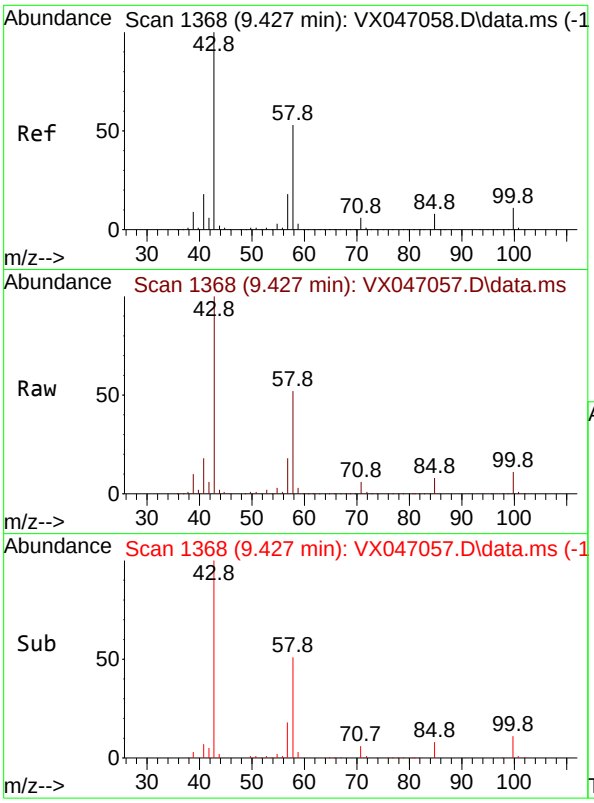


#58
2-Chloroethyl Vinyl ether
Concen: 93.631 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 63 Resp: 294878

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.2	33.4





#59
2-Hexanone
Concen: 109.015 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 43 Resp: 35229

Ion	Ratio	Lower	Upper
43	100		
58	51.2	26.5	79.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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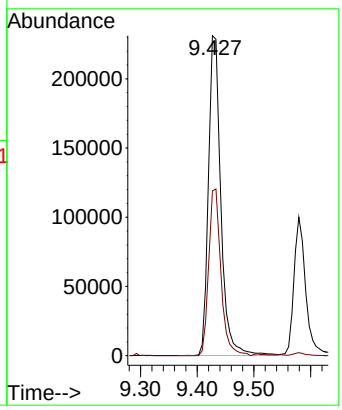
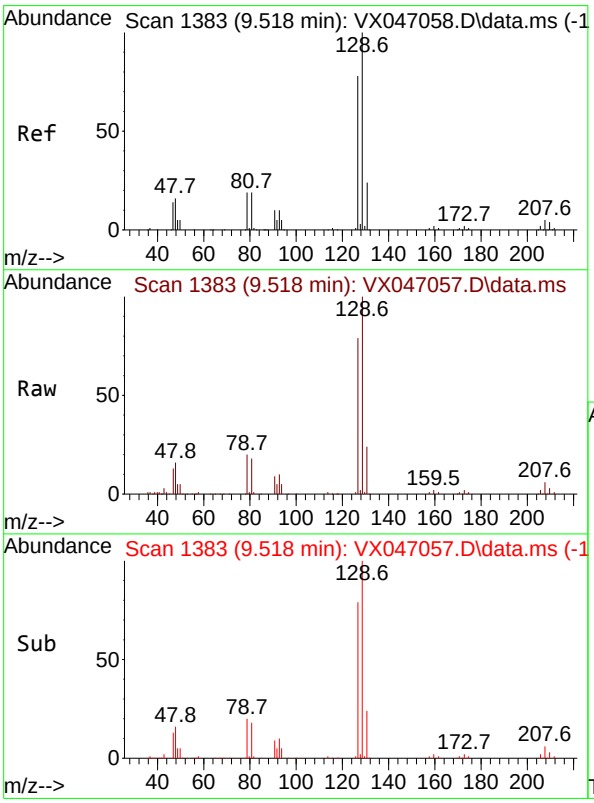
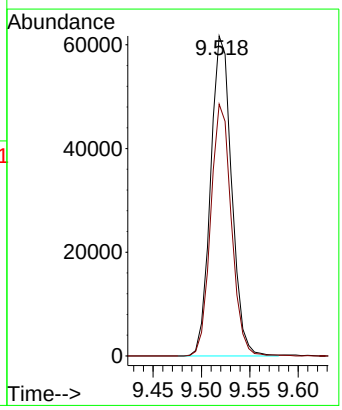


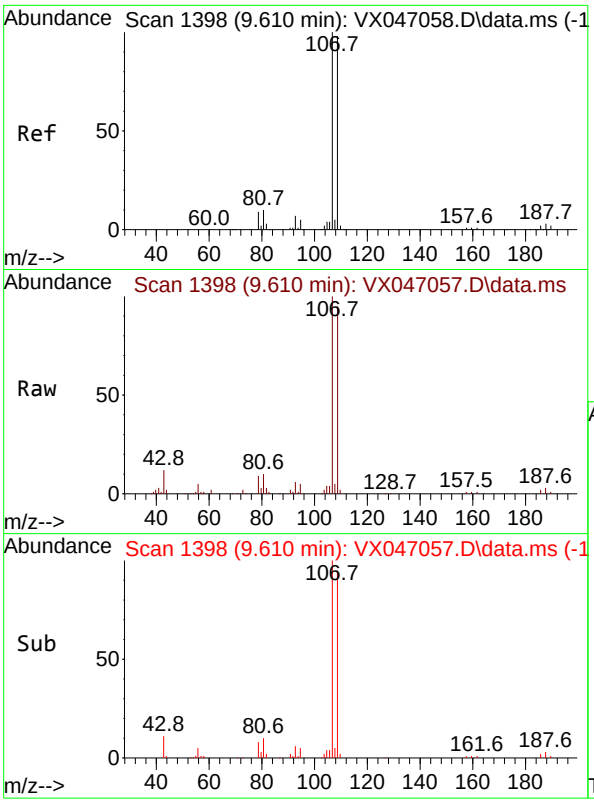


#60
Dibromochloromethane
Concen: 20.779 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:129 Resp: 93165

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.6	115.8

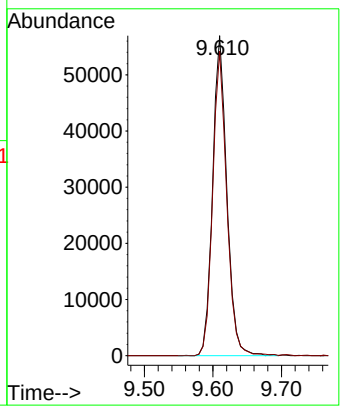




#61
1,2-Dibromoethane
Concen: 20.522 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:107 Resp: 8203

Ion	Ratio	Lower	Upper
107	100		
109	94.4	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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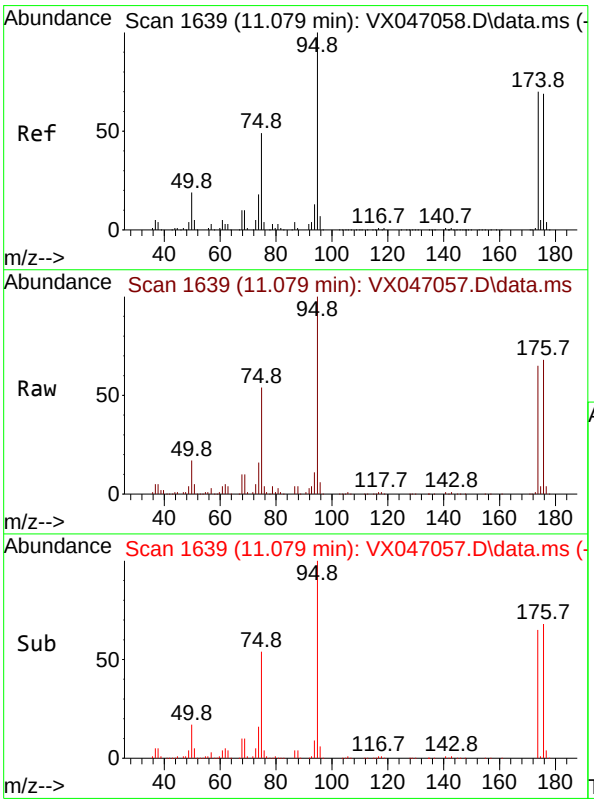
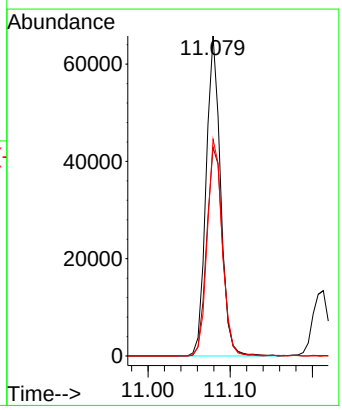
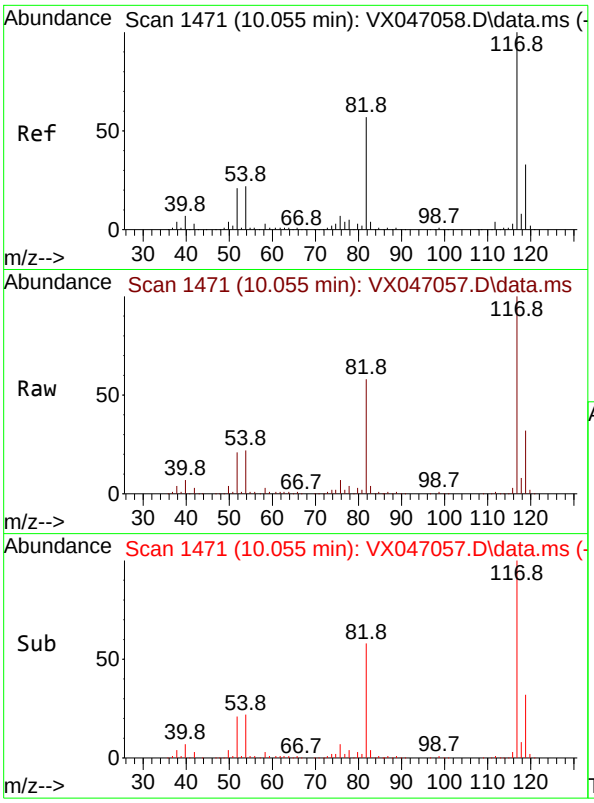


#62
4-Bromofluorobenzene
Concen: 17.133 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 95 Resp: 80359

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	144.6
176	70.0	0.0	139.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:117 Resp: 48657

Ion	Ratio	Lower	Upper
117	100		
82	57.8	45.4	68.2
119	32.2	26.1	39.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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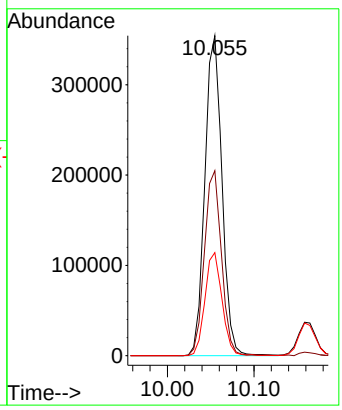
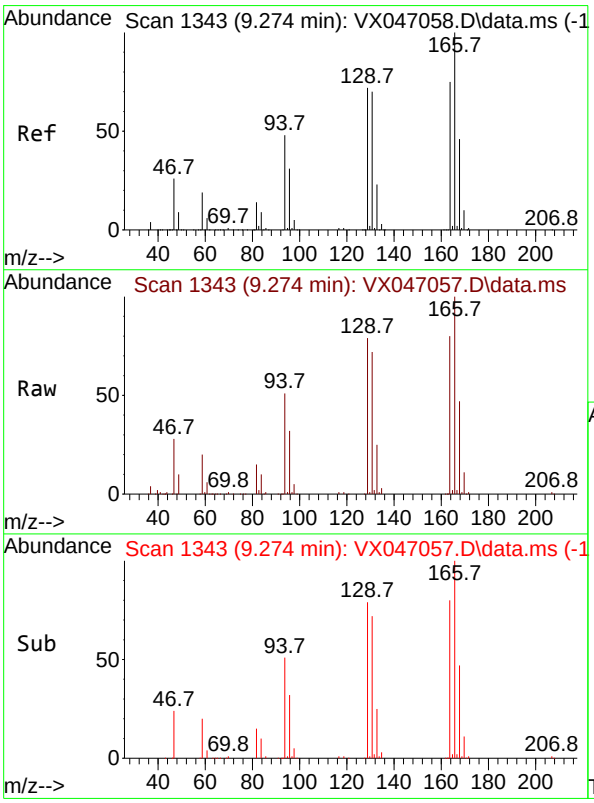
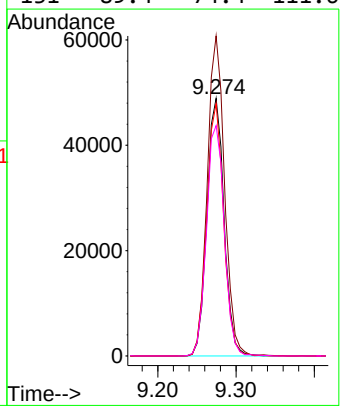


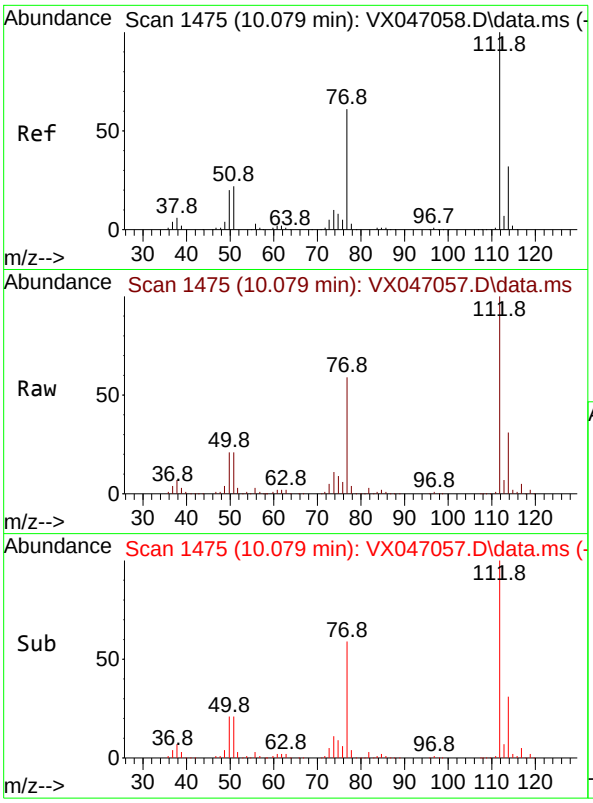


#64
Tetrachloroethene
Concen: 21.147 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:164 Resp: 74177

Ion	Ratio	Lower	Upper
164	100		
166	124.2	106.2	159.4
129	98.0	76.6	114.8
131	89.4	74.4	111.6

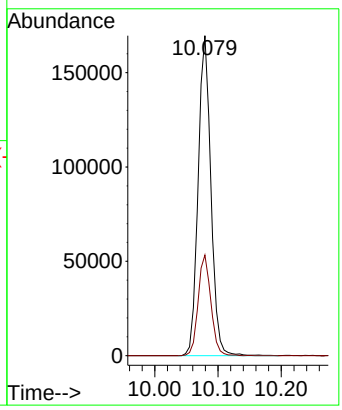




#65
Chlorobenzene
Concen: 20.917 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:112 Resp: 23842

Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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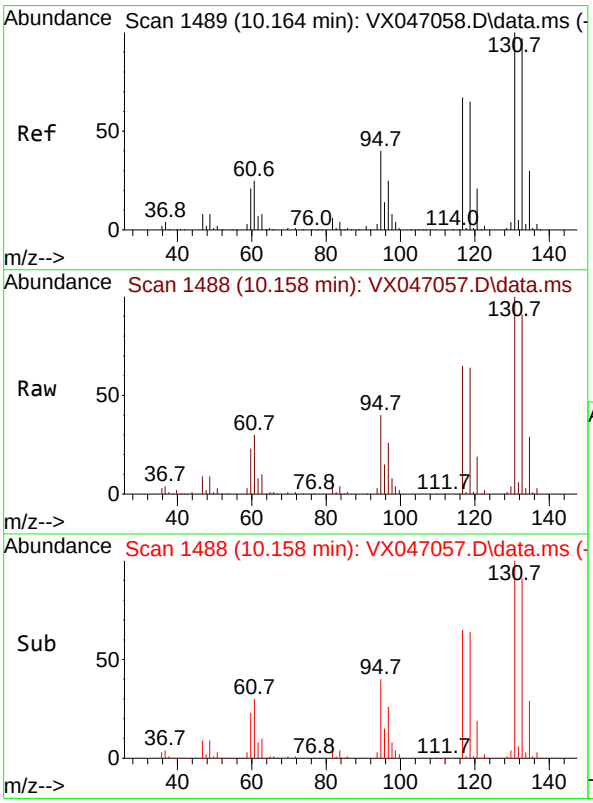
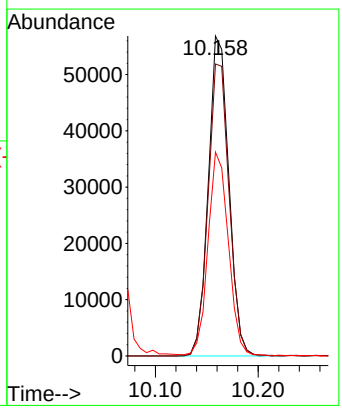
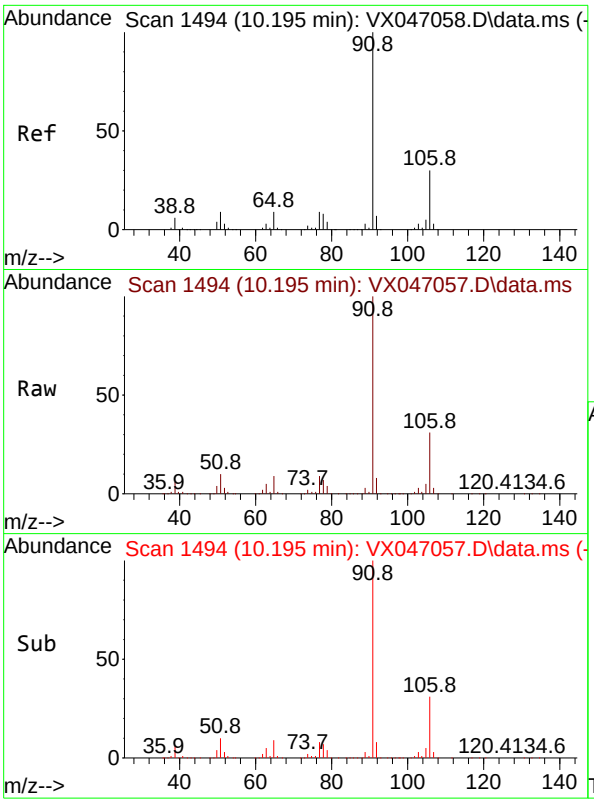


#66
1,1,1,2-Tetrachloroethane
Concen: 20.502 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:131 Resp: 78682

Ion	Ratio	Lower	Upper
131	100		
133	93.9	48.4	145.3
119	63.6	32.4	97.0

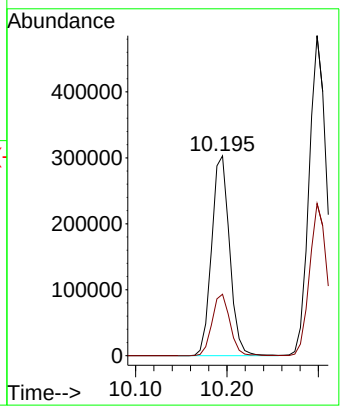




#67
Ethyl Benzene
Concen: 20.693 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 91 Resp: 41241

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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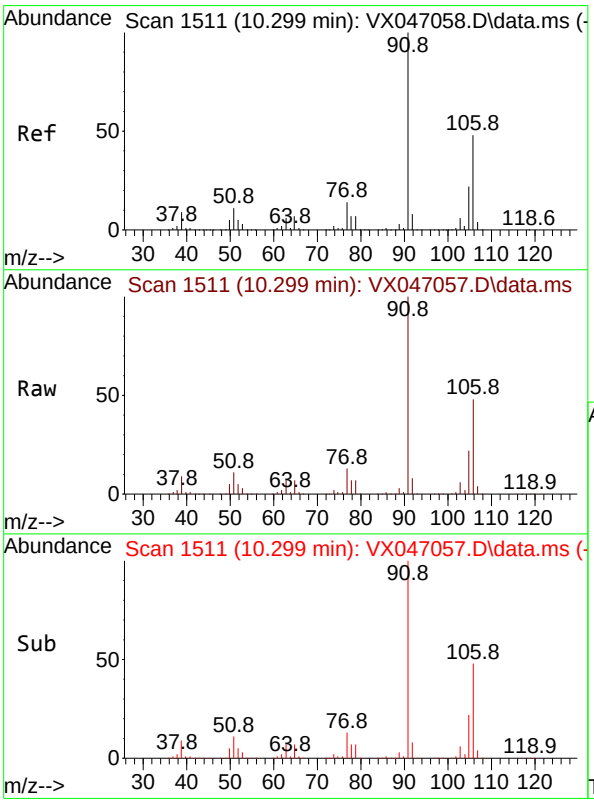
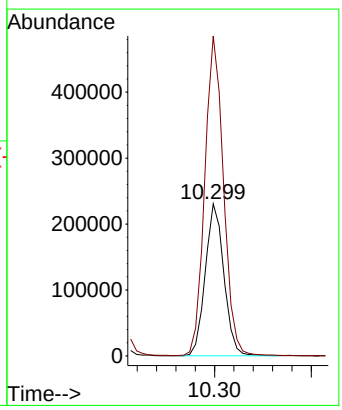
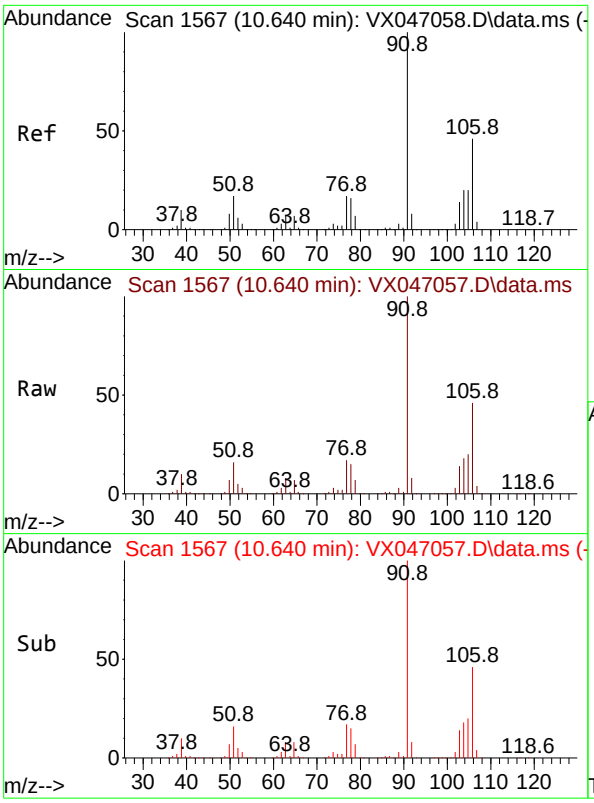


#68
m/p-Xylenes
Concen: 41.478 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:106 Resp: 309353

Ion	Ratio	Lower	Upper
106	100		
91	212.6	167.4	251.0

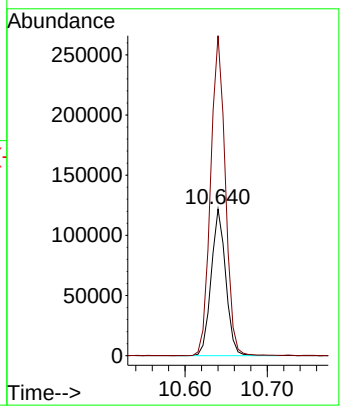




#69
o-Xylene
Concen: 21.083 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:106 Resp: 14959

Ion	Ratio	Lower	Upper
106	100		
91	221.0	110.3	331.0



Instrument :
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ClientSampleId :
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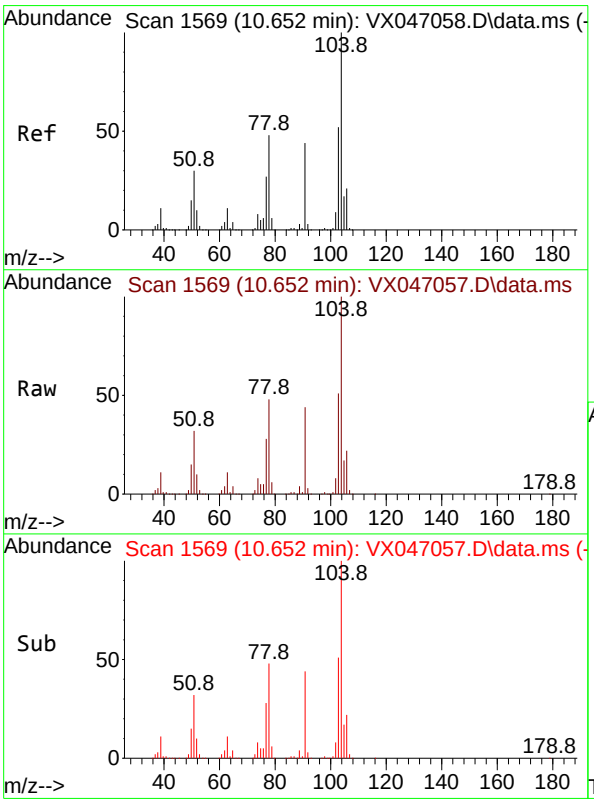
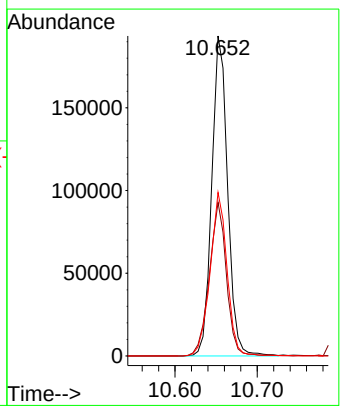
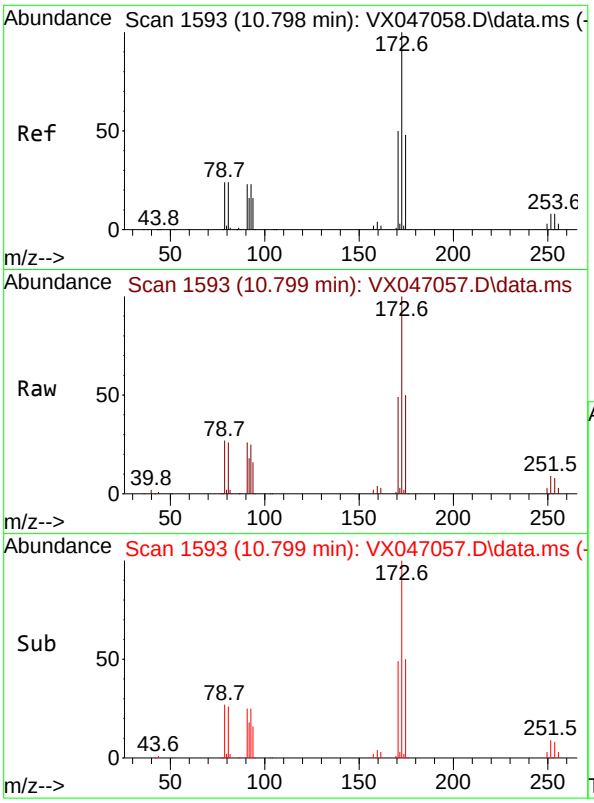


#70
Styrene
Concen: 21.310 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:104 Resp: 259267

Ion	Ratio	Lower	Upper
104	100		
78	51.9	42.0	63.0
103	54.6	43.8	65.6

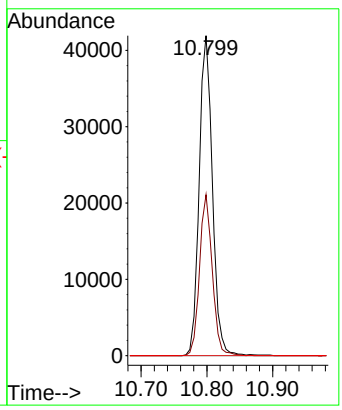




#71
Bromoform
Concen: 20.135 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:173 Resp: 5869

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.2	72.6
254	0.0	0.1	0.1



Instrument :
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ClientSampleId :
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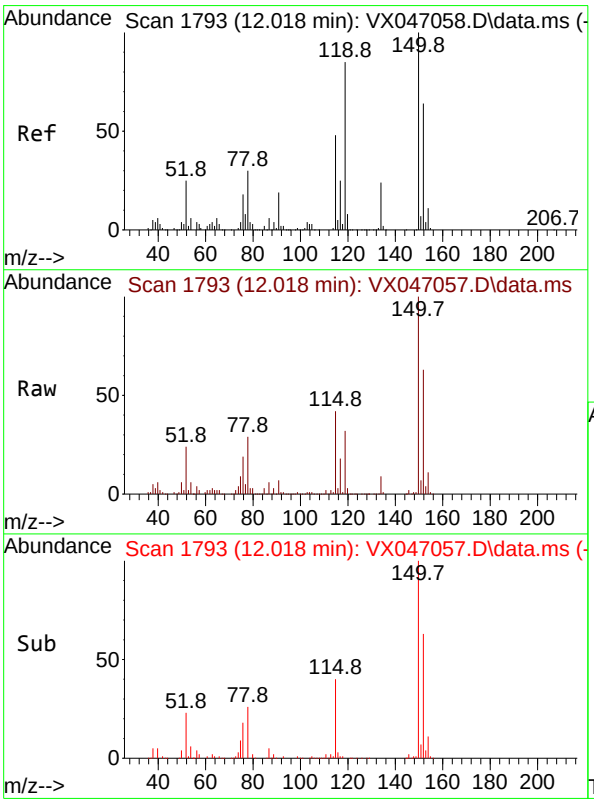
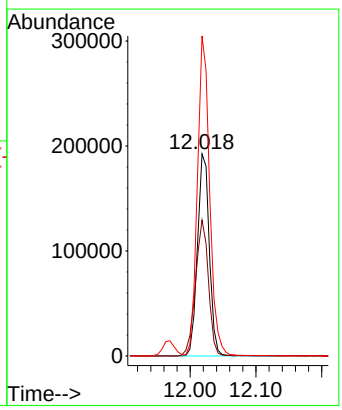
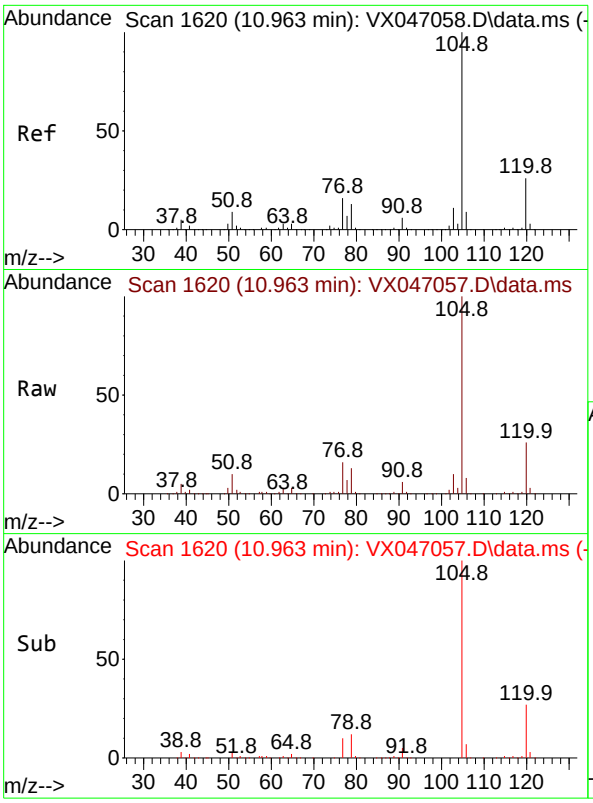


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:152 Resp: 240632

Ion	Ratio	Lower	Upper
152	100		
115	73.2	45.6	136.7
150	163.9	0.0	354.6

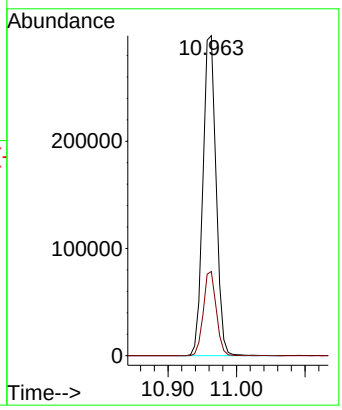




#73
Isopropylbenzene
Concen: 21.021 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:105 Resp: 39907

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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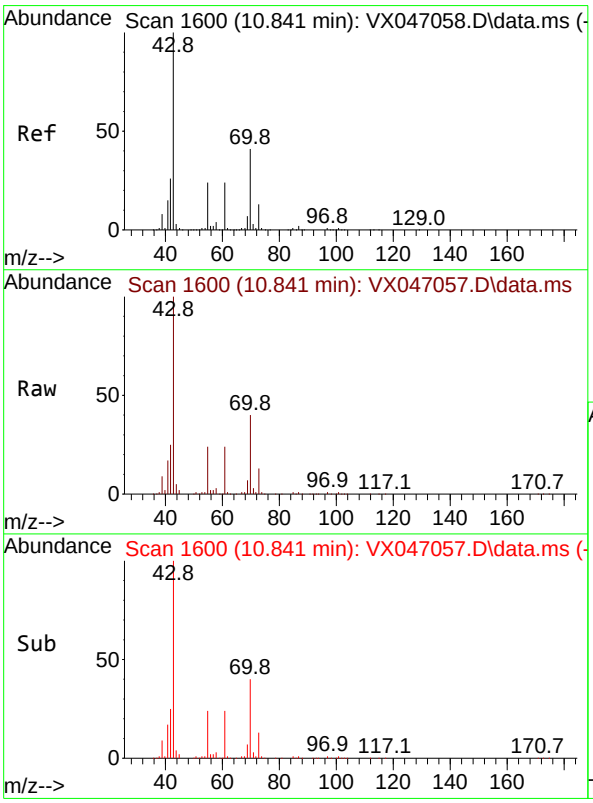
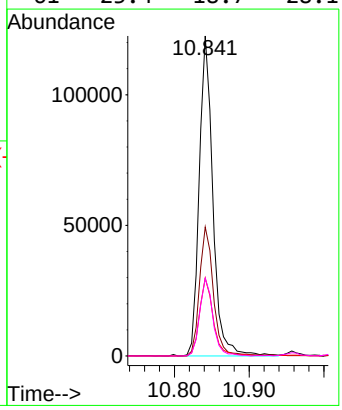
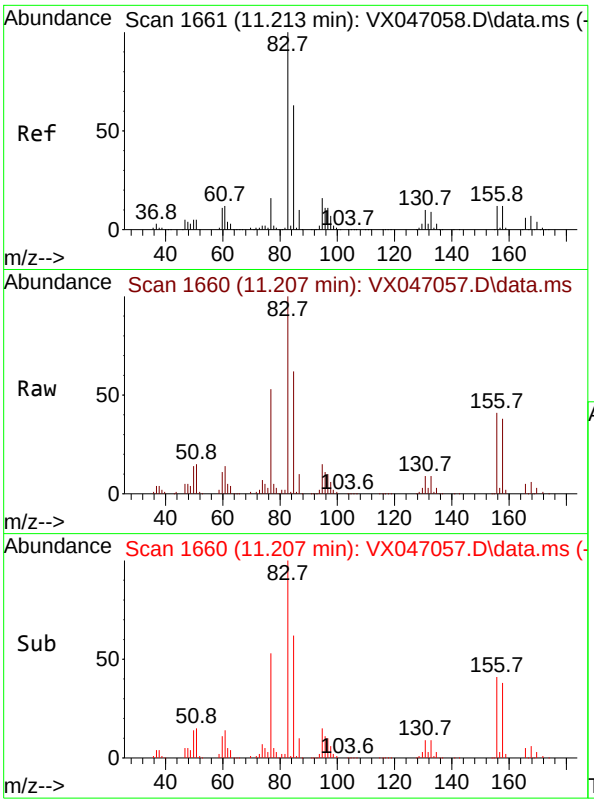


#74
N-amyl acetate
Concen: 20.558 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 43 Resp: 155675

Ion	Ratio	Lower	Upper
43	100		
70	41.1	32.3	48.5
55	24.5	18.9	28.3
61	23.4	18.7	28.1

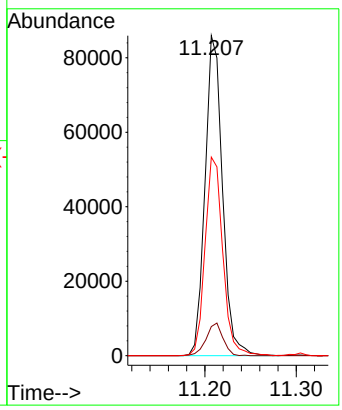




#75
1,1,2,2-Tetrachloroethane
Concen: 20.975 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 83 Resp: 11374

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	63.1	32.0	96.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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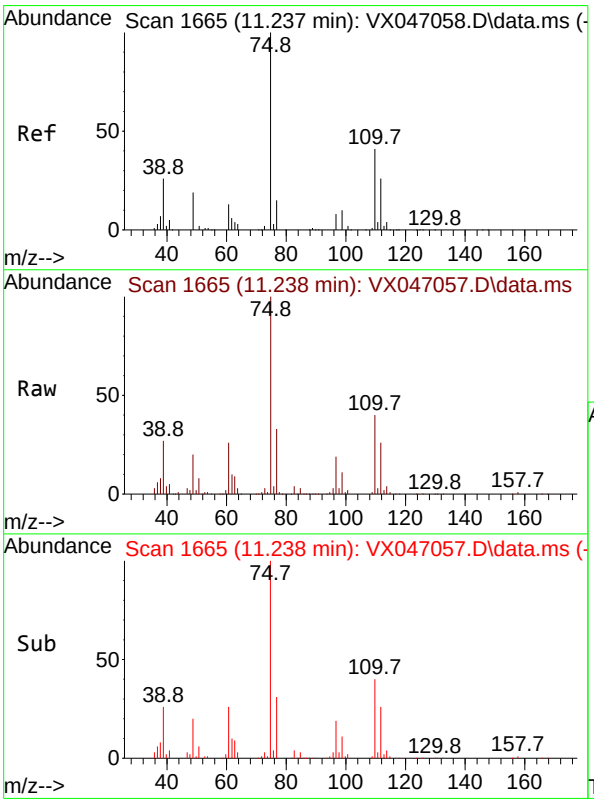
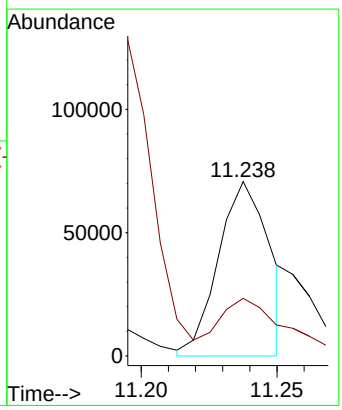
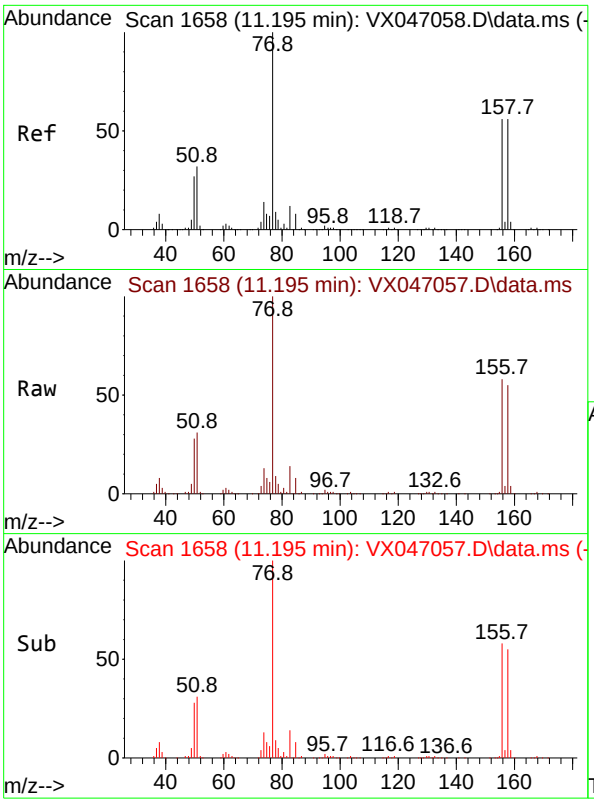


#76
1,2,3-Trichloropropane
Concen: 20.656 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 75 Resp: 92003

Ion	Ratio	Lower	Upper
75	100		
77	43.2	21.6	65.0

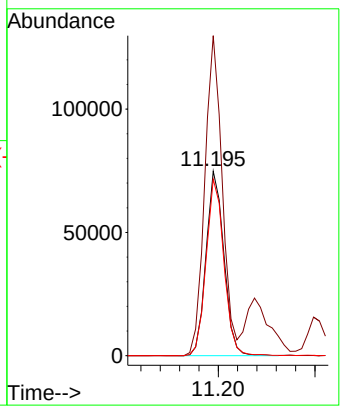




#77
Bromobenzene
Concen: 21.073 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:156 Resp: 9595

Ion	Ratio	Lower	Upper
156	100		
77	169.8	87.3	261.9
158	95.8	48.9	146.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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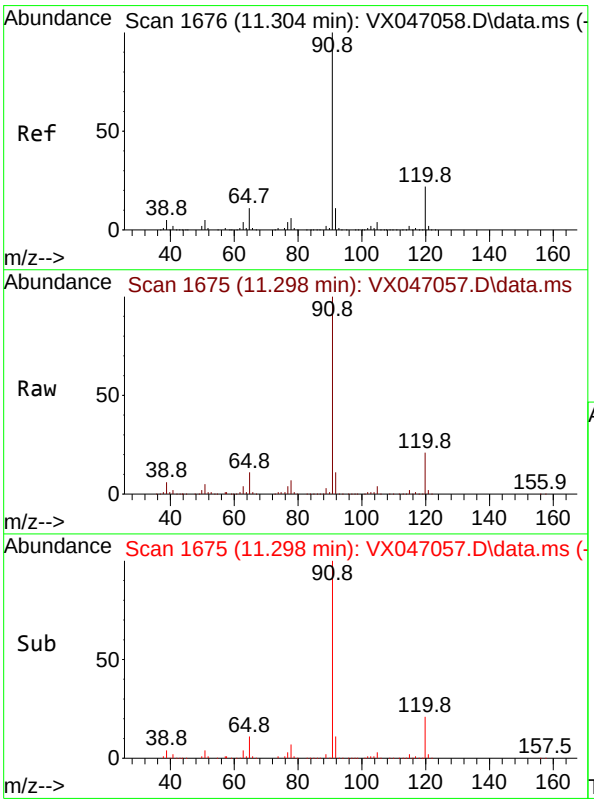
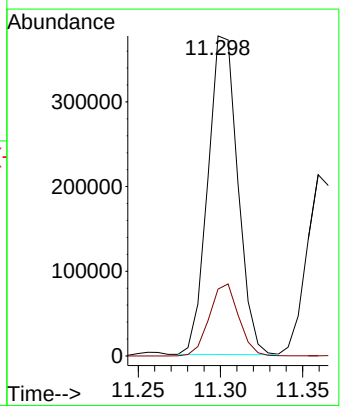
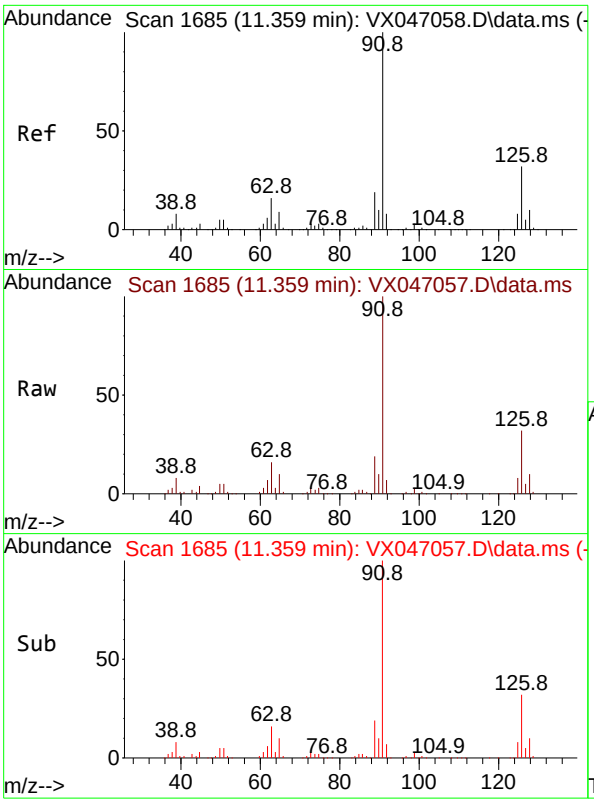


#78
n-propylbenzene
Concen: 20.991 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 91 Resp: 476196

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0





#79
2-Chlorotoluene
Concen: 20.545 ug/l
RT: 11.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 91 Resp: 27861

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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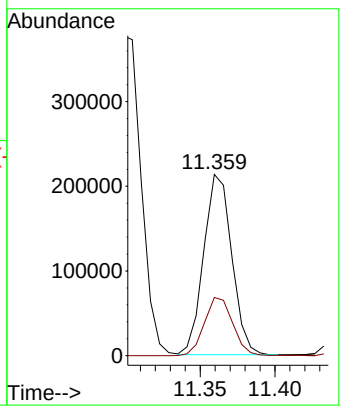
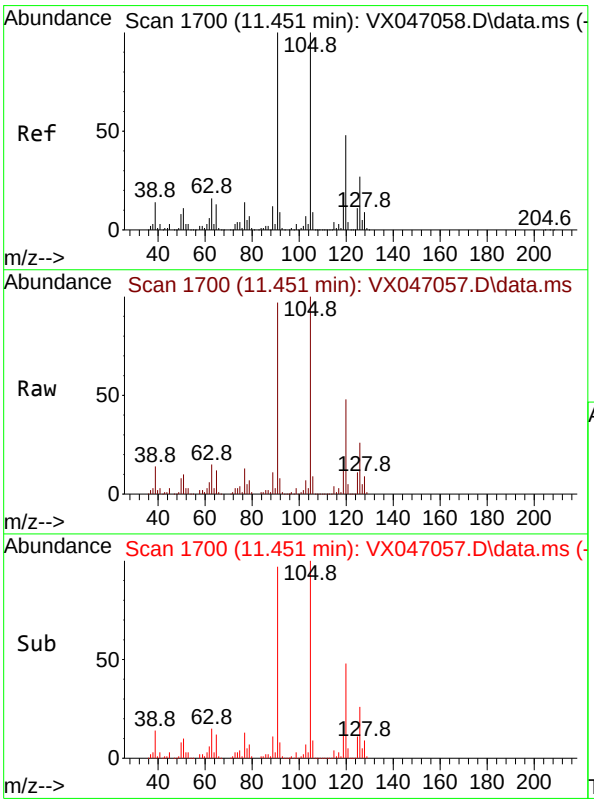
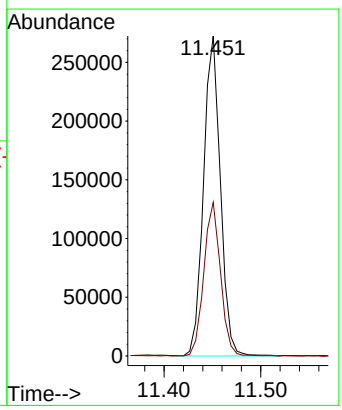


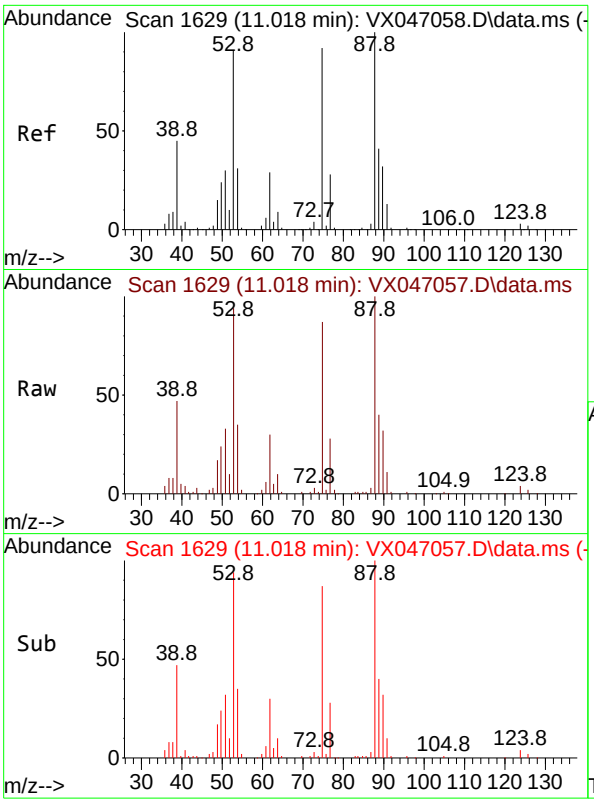


#80
1,3,5-Trimethylbenzene
Concen: 21.093 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:105 Resp: 330824

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.5

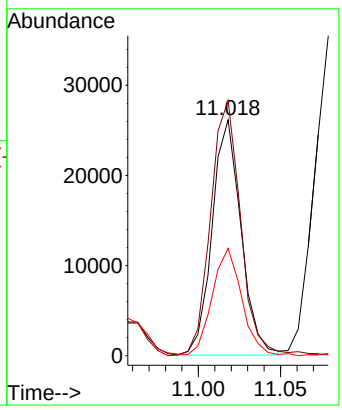




#81
trans-1,4-Dichloro-2-butene
Concen: 18.440 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 75 Resp: 3187

Ion	Ratio	Lower	Upper
75	100		
53	113.5	84.2	126.4
89	46.7	36.0	54.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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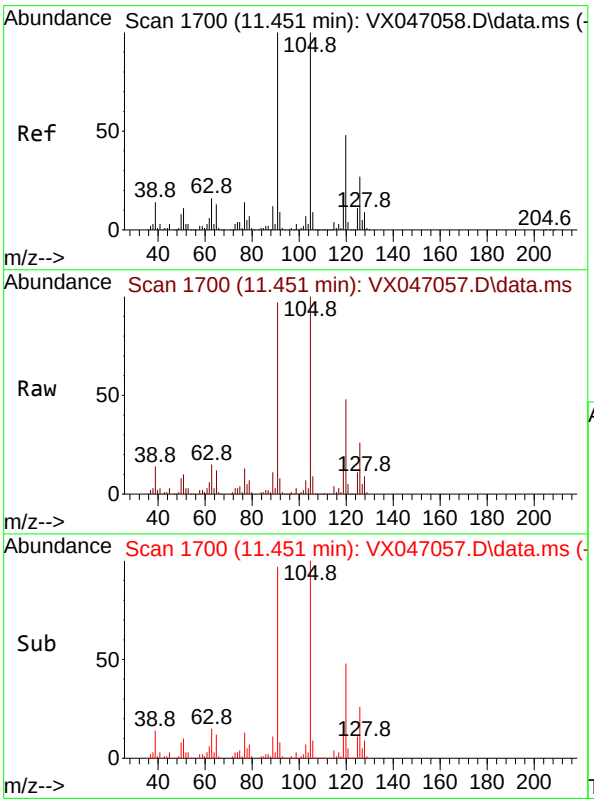
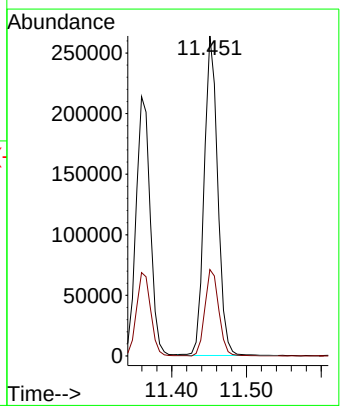
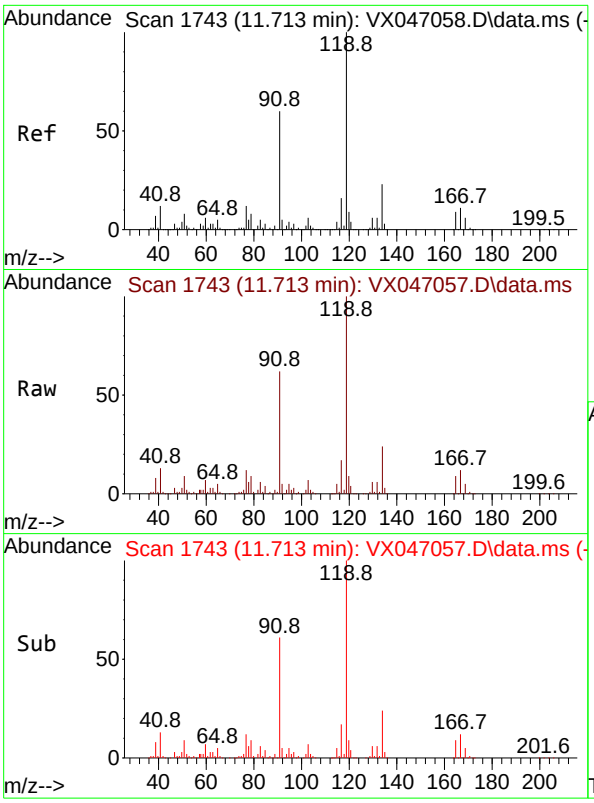


#82
4-Chlorotoluene
Concen: 20.951 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 91 Resp: 331629

Ion	Ratio	Lower	Upper
91	100		
126	27.9	14.1	42.3

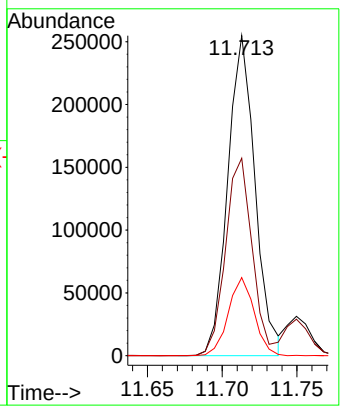




#83
tert-Butylbenzene
Concen: 20.571 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:119 Resp: 32381

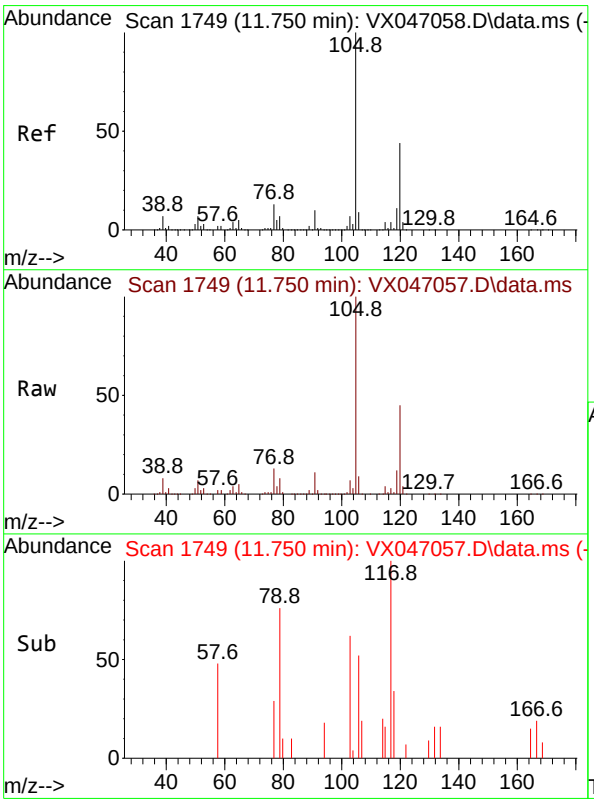
Ion	Ratio	Lower	Upper
119	100		
91	59.9	29.6	88.8
134	23.2	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

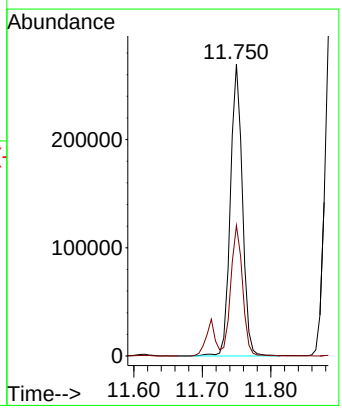
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

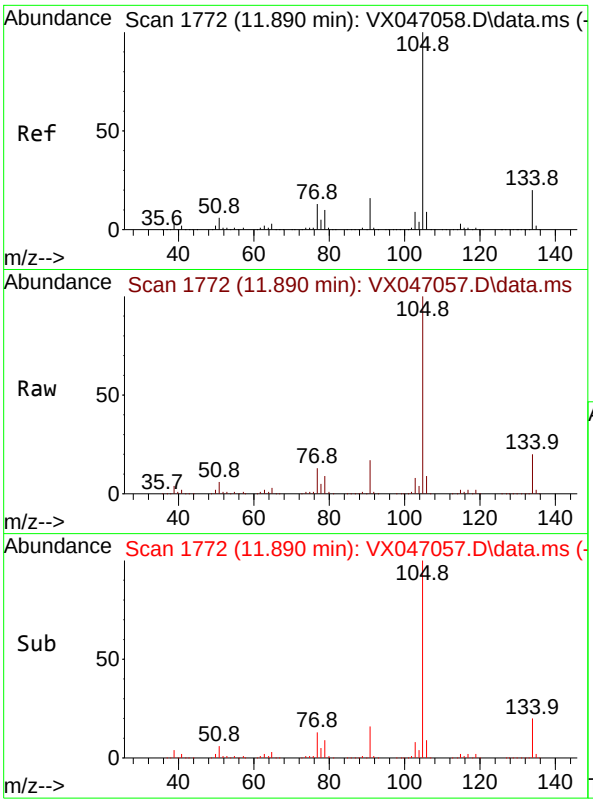


#84
1,2,4-Trimethylbenzene
Concen: 21.010 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:105 Resp: 328672

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.0	66.0

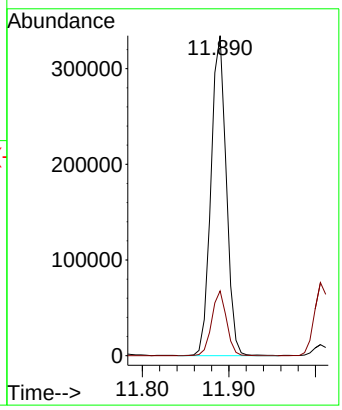




#85
sec-Butylbenzene
Concen: 20.892 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:105 Resp: 41093

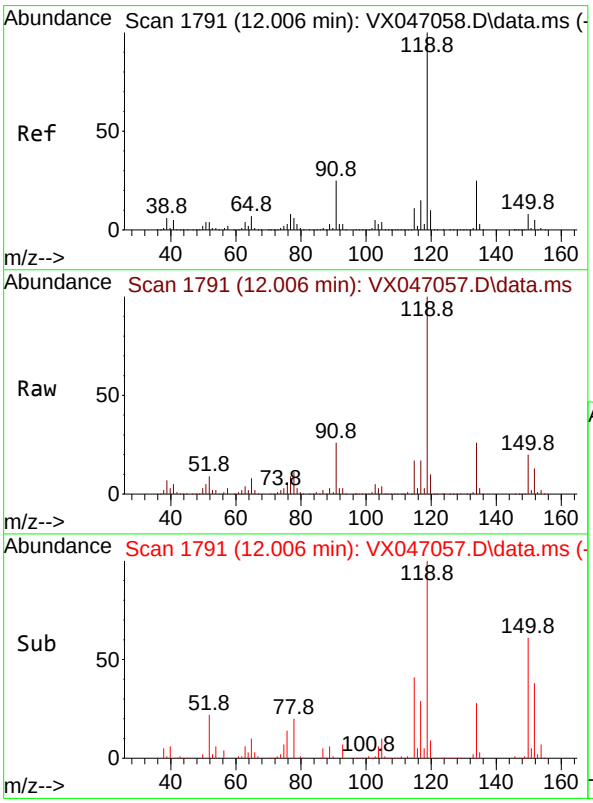
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

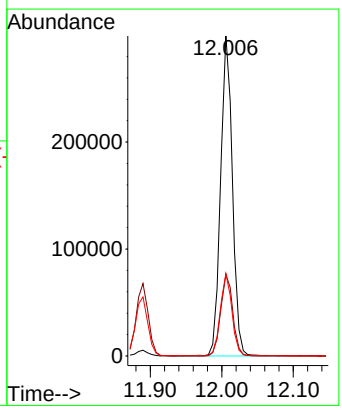
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

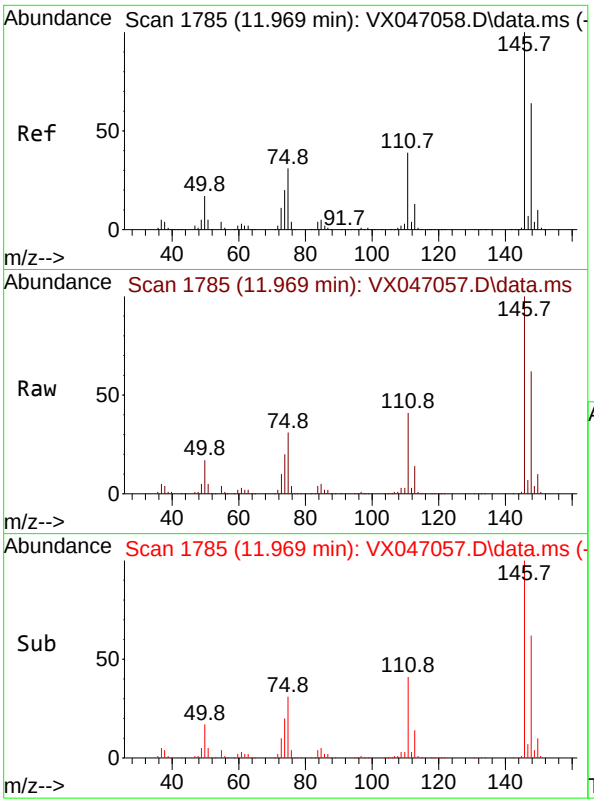


#86
p-Isopropyltoluene
Concen: 21.065 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:119 Resp: 343591

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.8	38.4
91	25.4	12.4	37.4

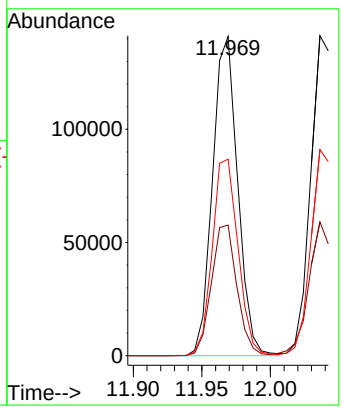




#87
1,3-Dichlorobenzene
Concen: 20.789 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:146 Resp: 17986

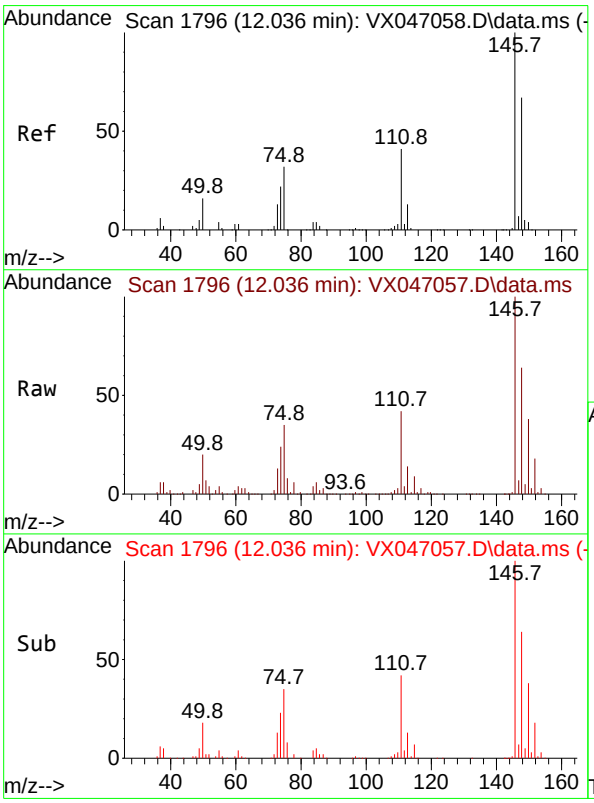
Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.0	63.0
148	63.3	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

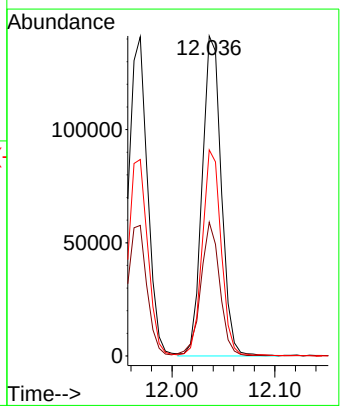
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

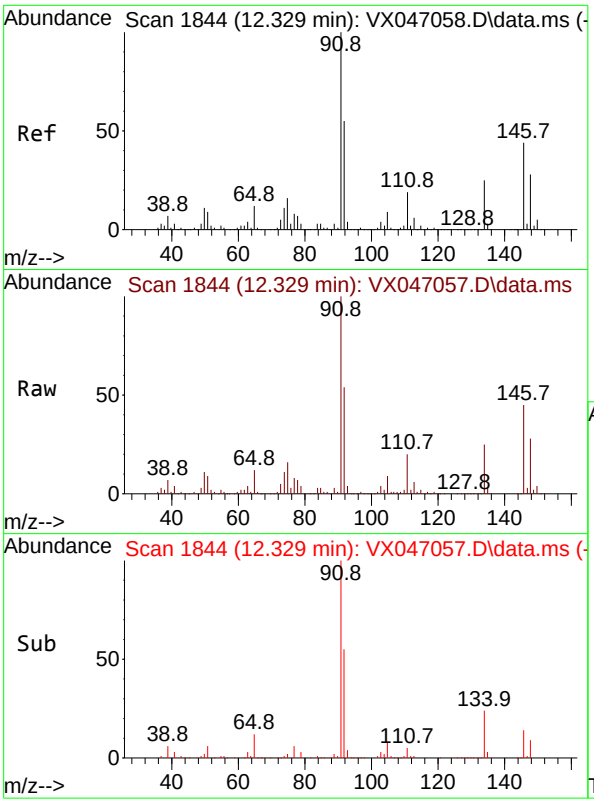


#88
1,4-Dichlorobenzene
Concen: 20.897 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:146 Resp: 183173

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.6	61.9
148	63.3	33.0	98.9

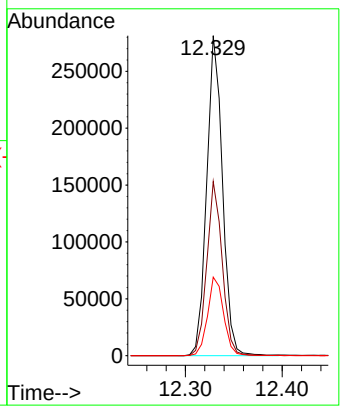




#89
n-Butylbenzene
Concen: 20.916 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 91 Resp: 31994

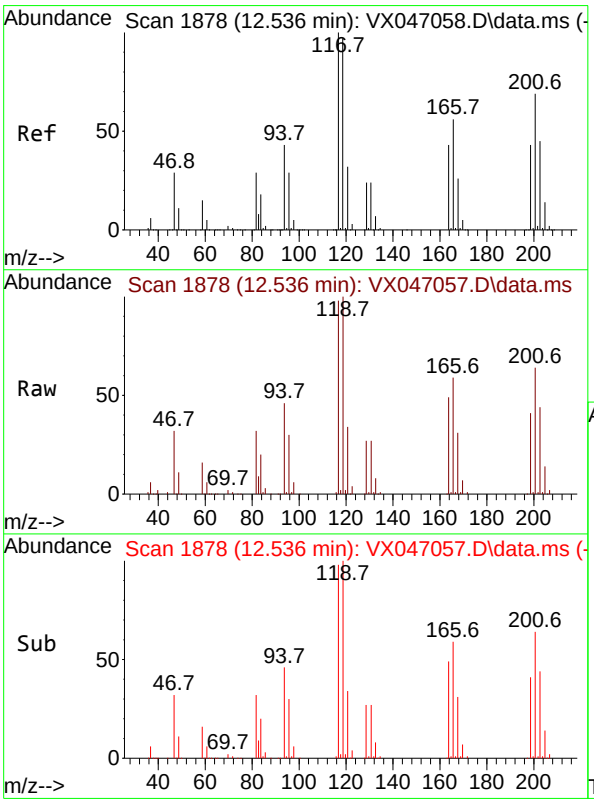
Ion	Ratio	Lower	Upper
91	100		
92	53.1	27.5	82.5
134	25.0	12.8	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

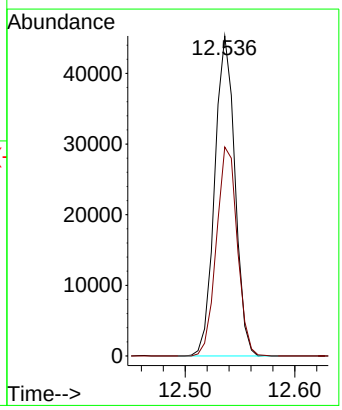
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

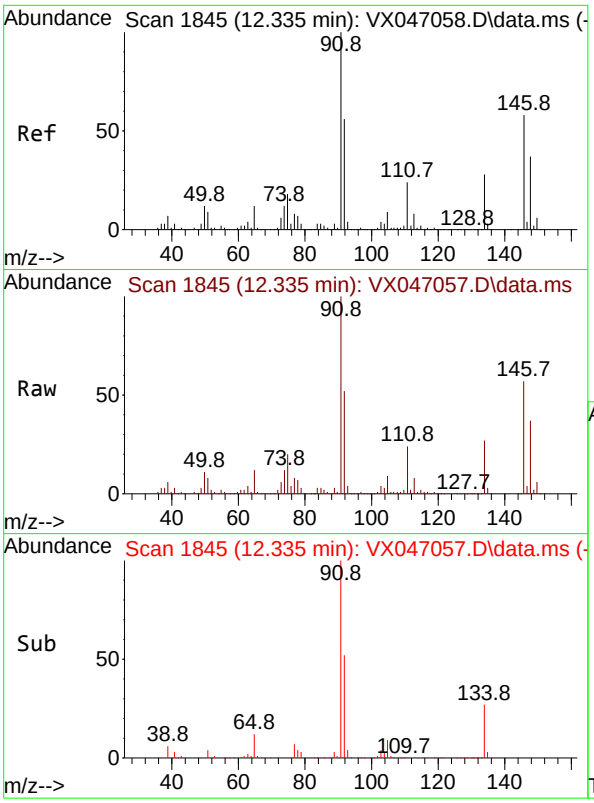


#90
Hexachloroethane
Concen: 19.896 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:117 Resp: 58057

Ion	Ratio	Lower	Upper
117	100		
201	67.5	34.8	104.5

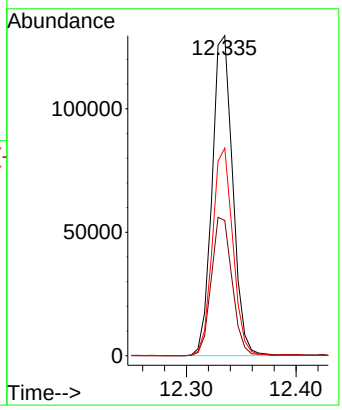




#91
1,2-Dichlorobenzene
Concen: 20.528 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:146 Resp: 16974

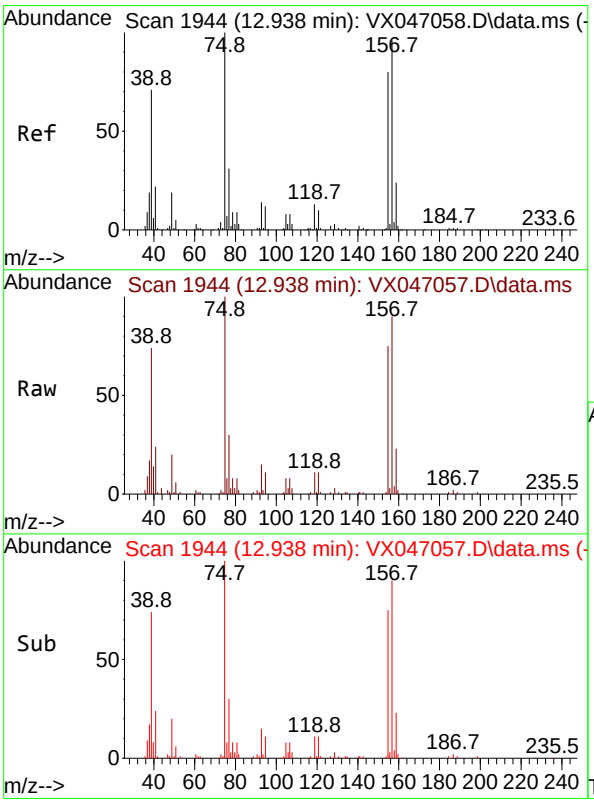
Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.6	64.6
148	64.8	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

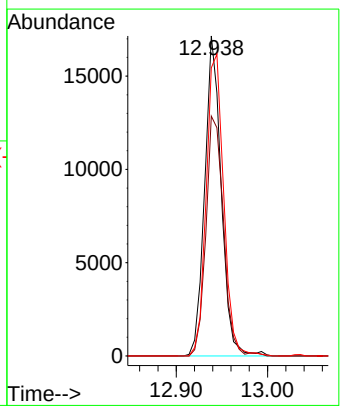
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

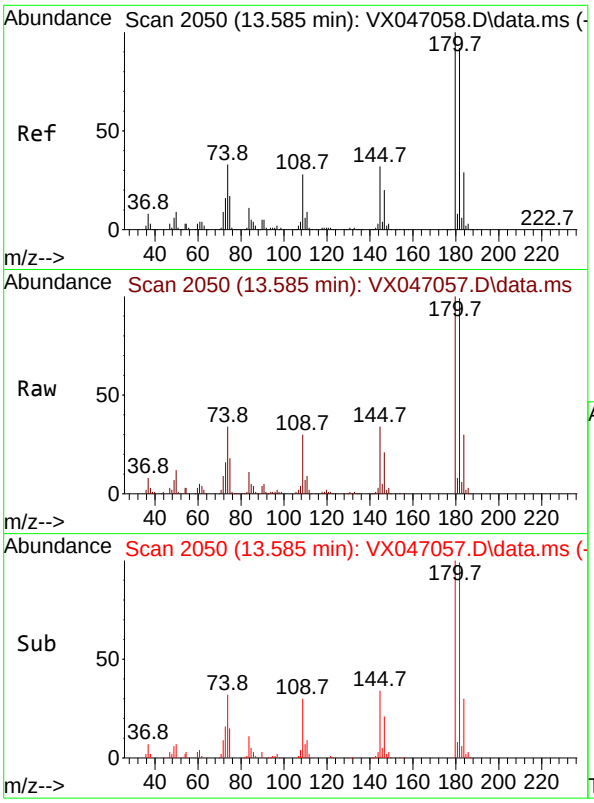


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.585 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 75 Resp: 21427

Ion	Ratio	Lower	Upper
75	100		
155	79.9	41.3	124.1
157	99.9	52.8	158.3

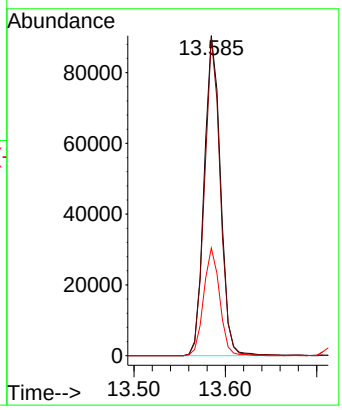




#93
1,2,4-Trichlorobenzene
Concen: 20.413 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:180 Resp: 11152

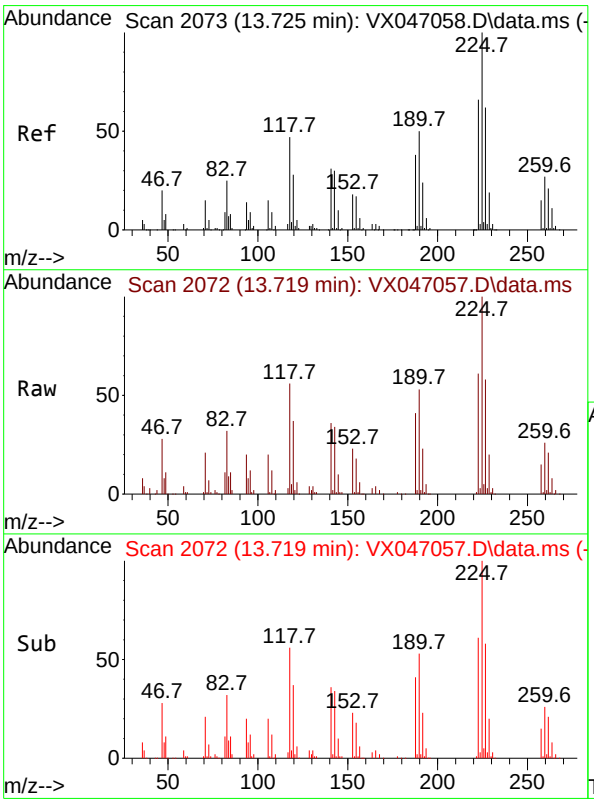
Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.3	141.8
145	33.0	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

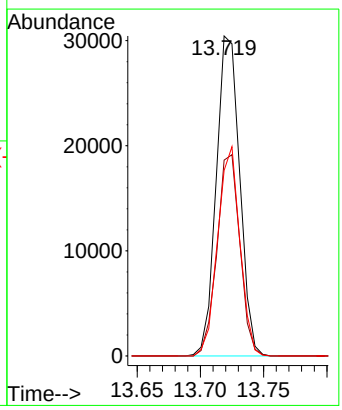
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

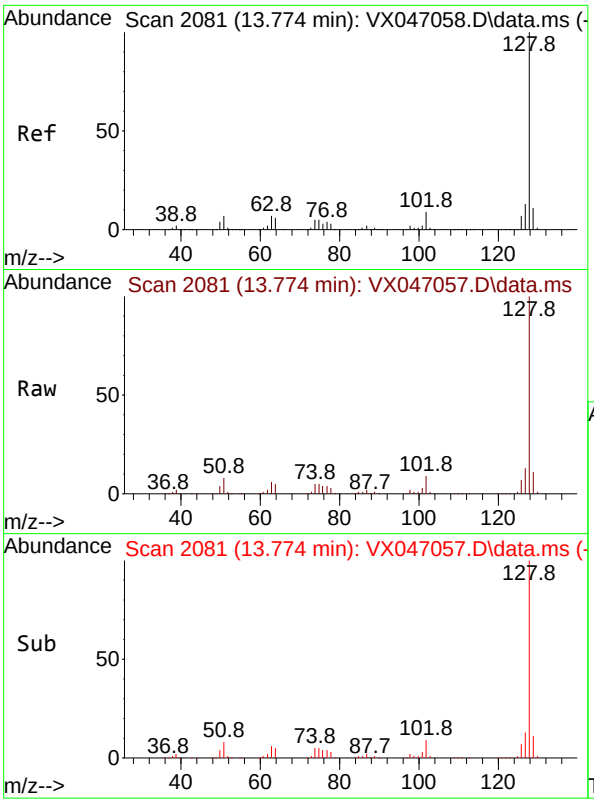


#94
Hexachlorobutadiene
Concen: 21.090 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:225 Resp: 39186

Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.6	95.0
227	62.0	32.9	98.6

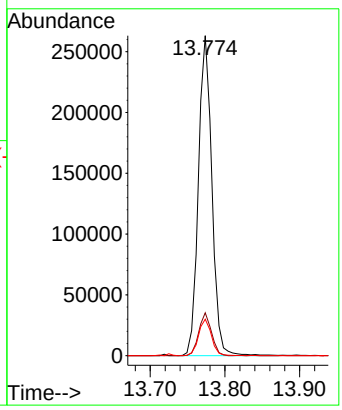




#95
Naphthalene
Concen: 20.581 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:128 Resp: 32963

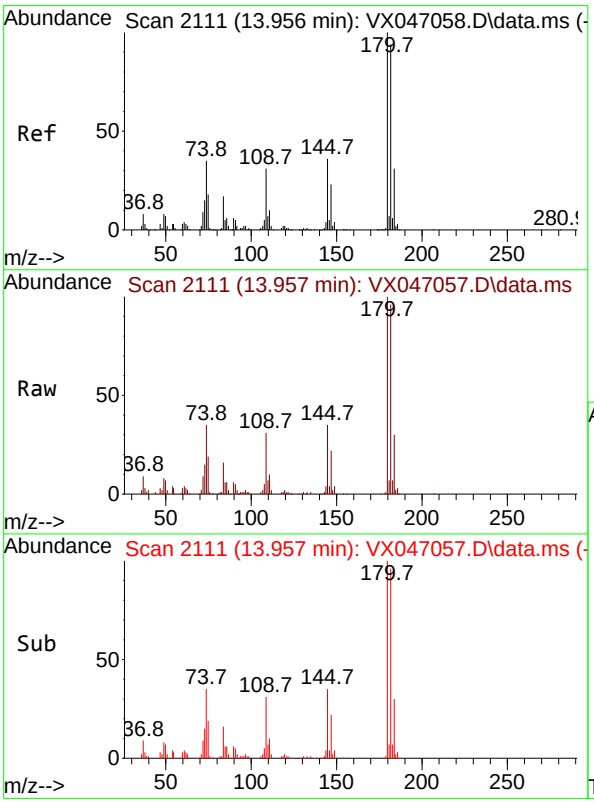
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	11.0	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

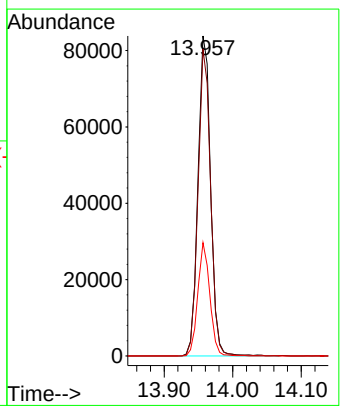
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.432 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:180 Resp: 107542

Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.9	140.6
145	33.8	17.3	52.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047058.D
Acq On : 21 Jul 2025 10:50
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 22 03:38:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	309883	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	516282	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	464565	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	223799	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	178313	46.193	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 92.380%			
35) Dibromofluoromethane	5.397	113	152747	47.918	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.840%			
50) Toluene-d8	8.652	98	477108	46.217	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 92.440%			
62) 4-Bromofluorobenzene	11.079	95	211198	47.473	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 94.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	238090	57.844	ug/l	100
3) Chloromethane	1.306	50	216682	53.219	ug/l	100
4) Vinyl Chloride	1.386	62	241663	55.216	ug/l	100
5) Bromomethane	1.617	94	138734	58.354	ug/l	100
6) Chloroethane	1.703	64	145779	50.714	ug/l	100
7) Trichlorofluoromethane	1.904	101	358904	54.994	ug/l	100
8) Diethyl Ether	2.148	74	120887	52.535	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	209152	53.194	ug/l	100
10) Methyl Iodide	2.471	142	225356	56.237	ug/l	100
11) Tert butyl alcohol	2.958	59	113517	251.629	ug/l	100
12) 1,1-Dichloroethene	2.337	96	208894	53.640	ug/l	100
13) Acrolein	2.251	56	214749	258.372	ug/l	100
14) Allyl chloride	2.678	41	383854	54.528	ug/l	100
15) Acrylonitrile	3.074	53	510056	277.051	ug/l	100
16) Acetone	2.385	43	390060	252.239	ug/l	100
17) Carbon Disulfide	2.532	76	600045	53.261	ug/l	100
18) Methyl Acetate	2.715	43	213070	51.848	ug/l	100
19) Methyl tert-butyl Ether	3.123	73	636699	53.721	ug/l	100
20) Methylene Chloride	2.806	84	223713	52.585	ug/l	100
21) trans-1,2-Dichloroethene	3.105	96	215393	54.049	ug/l	100
22) Diisopropyl ether	3.769	45	731970	54.083	ug/l	100
23) Vinyl Acetate	3.733	43	3005277	276.847	ug/l	100
24) 1,1-Dichloroethane	3.623	63	402810	53.522	ug/l	100
25) 2-Butanone	4.562	43	605614	268.961	ug/l	100
26) 2,2-Dichloropropane	4.489	77	303417	52.081	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	250112	53.001	ug/l	100
28) Bromochloromethane	4.909	49	188828	54.536	ug/l	100
29) Tetrahydrofuran	5.013	42	397391	273.532	ug/l	100
30) Chloroform	5.104	83	399454	52.141	ug/l	100
31) Cyclohexane	5.482	56	376396	52.159	ug/l	100
32) 1,1,1-Trichloroethane	5.397	97	349090	52.462	ug/l	100
36) 1,1-Dichloropropene	5.702	75	282151	51.926	ug/l	100
37) Ethyl Acetate	4.720	43	263866	55.103	ug/l	100
38) Carbon Tetrachloride	5.690	117	306989	52.934	ug/l	100
39) Methylcyclohexane	7.384	83	360702	53.168	ug/l	100
40) Benzene	6.043	78	851995	54.180	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047058.D
Acq On : 21 Jul 2025 10:50
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 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:38:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	150516	57.494	ug/l	100
42) 1,2-Dichloroethane	6.098	62	297385	53.686	ug/l	100
43) Isopropyl Acetate	6.348	43	438617	56.192	ug/l	100
44) Trichloroethene	7.128	130	216747	53.751	ug/l	100
45) 1,2-Dichloropropane	7.433	63	210862	53.539	ug/l	100
46) Dibromomethane	7.586	93	151672	54.916	ug/l	100
47) Bromodichloromethane	7.823	83	318771	54.225	ug/l	100
48) Methyl methacrylate	7.695	41	227033	53.391	ug/l	100
49) 1,4-Dioxane	7.659	88	53924	1114.967	ug/l	100
51) 4-Methyl-2-Pentanone	8.573	43	1282299	276.384	ug/l	100
52) Toluene	8.720	92	524916	54.288	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	305568	55.044	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	337057	55.475	ug/l	100
55) 1,1,2-Trichloroethane	9.152	97	194314	53.587	ug/l	100
56) Ethyl methacrylate	9.116	69	307494	57.281	ug/l	100
57) 1,3-Dichloropropane	9.305	76	337106	53.491	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	833190	278.917	ug/l	100
59) 2-Hexanone	9.427	43	886635	289.252	ug/l	100
60) Dibromochloromethane	9.518	129	229147	53.881	ug/l	100
61) 1,2-Dibromoethane	9.610	107	204078	53.823	ug/l	100
64) Tetrachloroethene	9.274	164	174727	52.173	ug/l	100
65) Chlorobenzene	10.079	112	571696	52.530	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.164	131	194777	53.158	ug/l	100
67) Ethyl Benzene	10.195	91	1023986	53.812	ug/l	100
68) m/p-Xylenes	10.299	106	759689	106.683	ug/l	100
69) o-Xylene	10.640	106	364689	53.834	ug/l	100
70) Styrene	10.652	104	632474	54.447	ug/l	100
71) Bromoform	10.798	173	150938	54.228	ug/l	100
73) Isopropylbenzene	10.963	105	964411	54.621	ug/l	100
74) N-amyl acetate	10.841	43	399297	56.697	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	270685	53.670	ug/l	100
76) 1,2,3-Trichloropropane	11.237	75	221713m	53.523	ug/l	
77) Bromobenzene	11.195	156	227531	53.727	ug/l	100
78) n-propylbenzene	11.304	91	1145472	54.290	ug/l	100
79) 2-Chlorotoluene	11.359	91	677779	53.739	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	788518	54.057	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	87538	54.445	ug/l	100
82) 4-Chlorotoluene	11.451	91	798628	54.249	ug/l	100
83) tert-Butylbenzene	11.713	119	802592	54.819	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	800479	55.018	ug/l	100
85) sec-Butylbenzene	11.890	105	984328	53.809	ug/l	100
86) p-Isopropyltoluene	12.006	119	829044	54.651	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	427108	53.079	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	423743	51.978	ug/l	100
89) n-Butylbenzene	12.329	91	773506	54.372	ug/l	100
90) Hexachloroethane	12.536	117	146577	54.011	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	408192	53.076	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	53563	55.328	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	274012	53.926	ug/l	100
94) Hexachlorobutadiene	13.725	225	90816	52.553	ug/l	100
95) Naphthalene	13.774	128	839990	56.390	ug/l	100
96) 1,2,3-Trichlorobenzene	13.956	180	262282	53.580	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047058.D
Acq On : 21 Jul 2025 10:50
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 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:38:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047058.D
Acq On : 21 Jul 2025 10:50
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 22 03:38:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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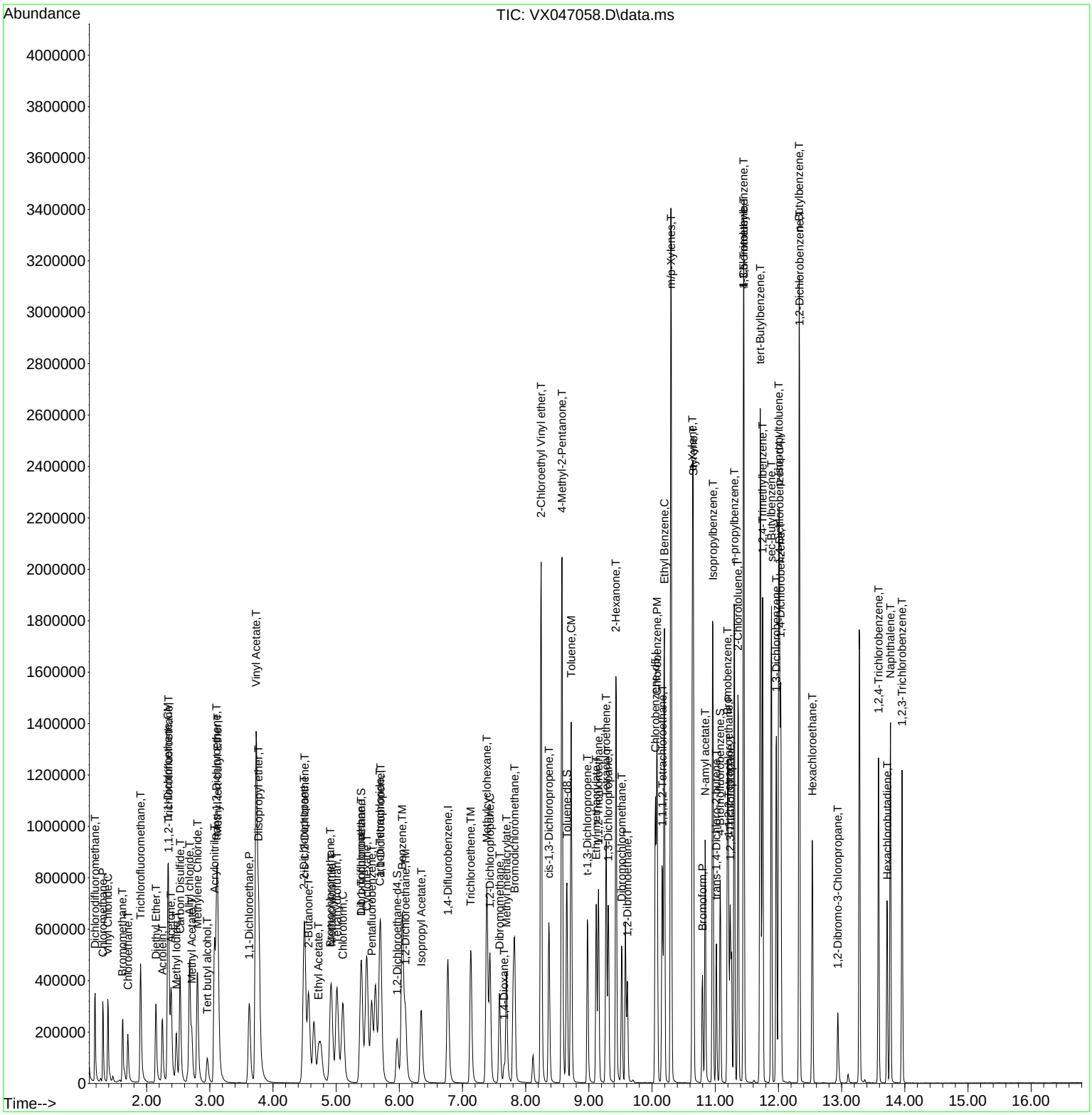
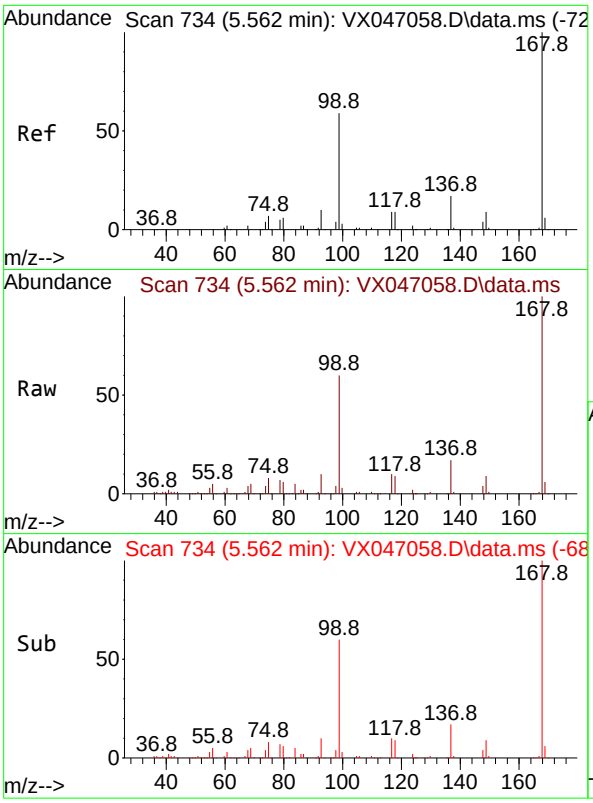
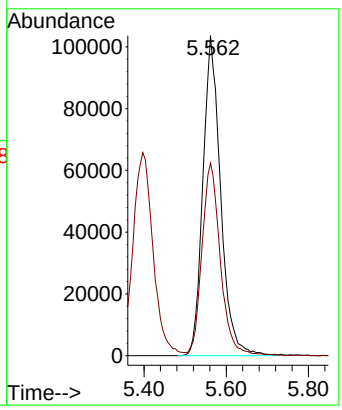




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:168 Resp: 30988

Ion	Ratio	Lower	Upper
168	100		
99	60.0	48.0	72.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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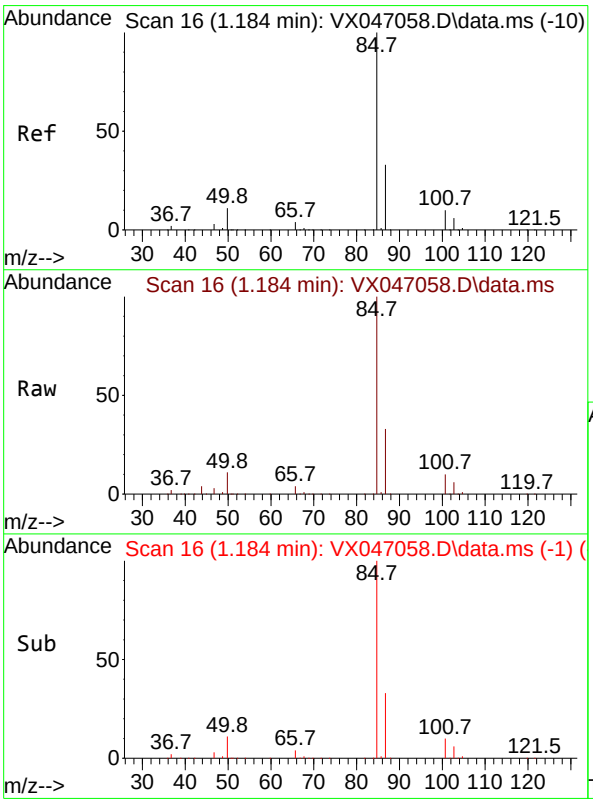
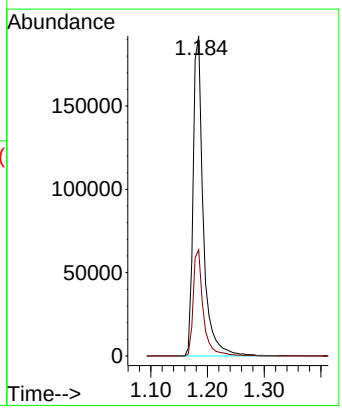
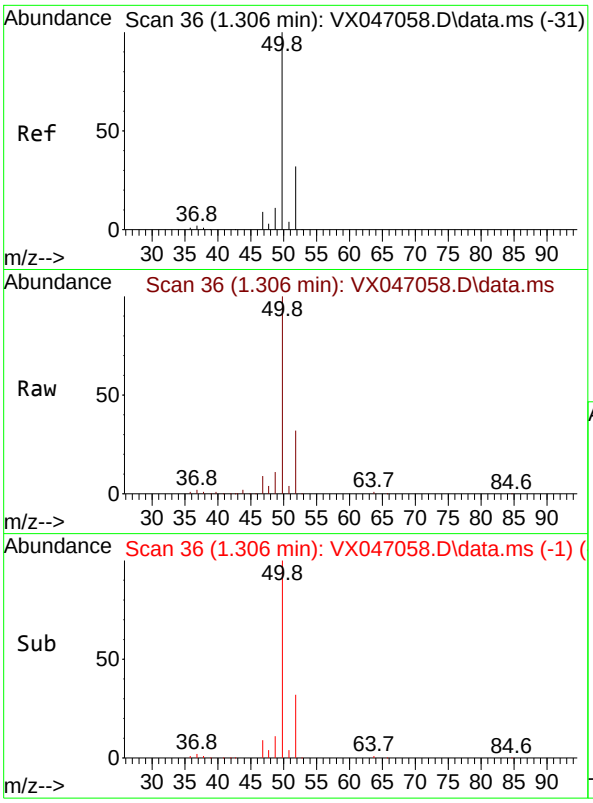


#2
Dichlorodifluoromethane
Concen: 57.844 ug/l
RT: 1.184 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 85 Resp: 238090

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.6	49.8

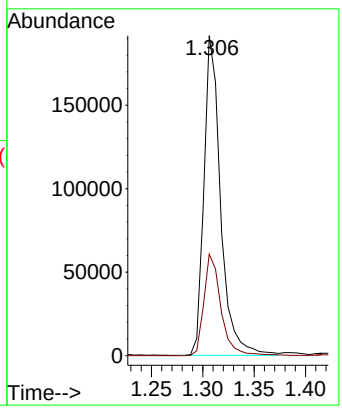




#3
Chloromethane
Concen: 53.219 ug/l
RT: 1.306 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 50 Resp: 21668

Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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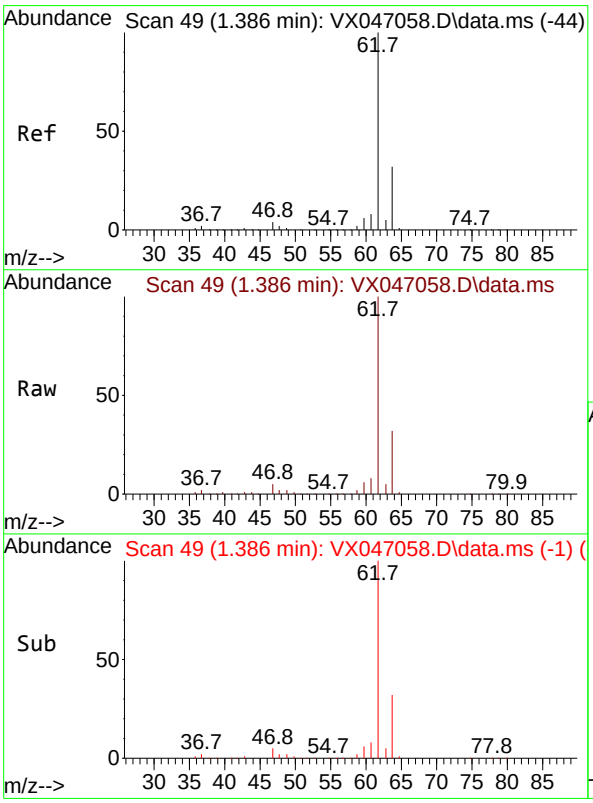
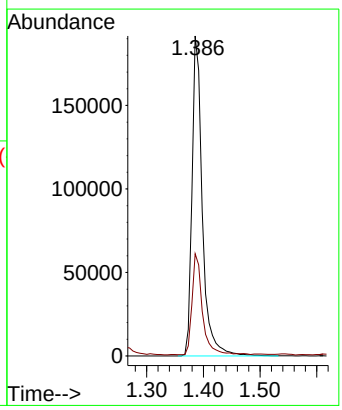
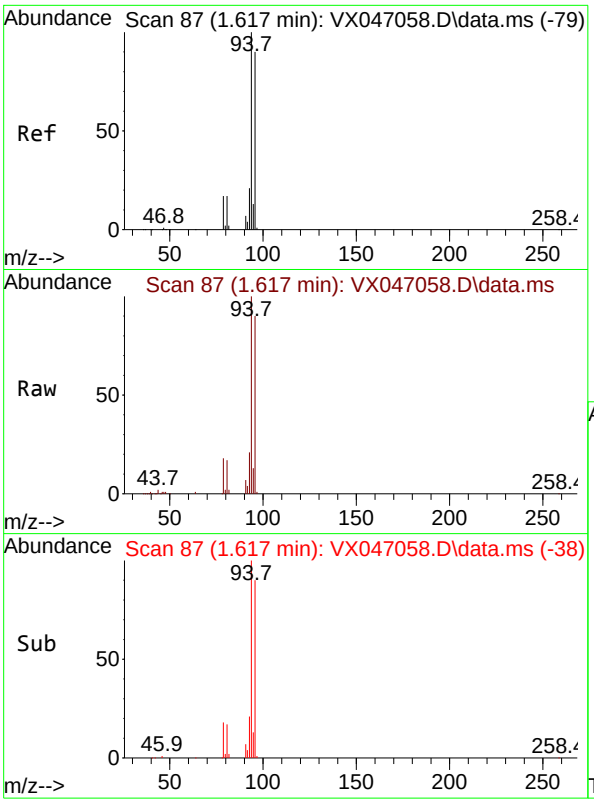


#4
Vinyl Chloride
Concen: 55.216 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 62 Resp: 241663

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.2	37.8





#5
Bromomethane
Concen: 58.354 ug/l
RT: 1.617 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 94 Resp: 13873

Ion	Ratio	Lower	Upper
94	100		
96	90.4	72.3	108.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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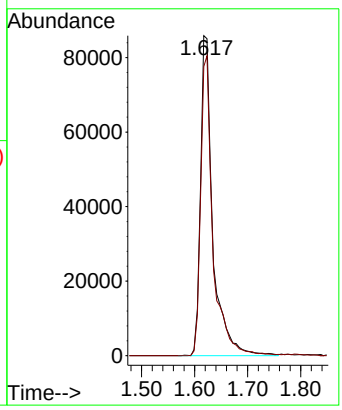
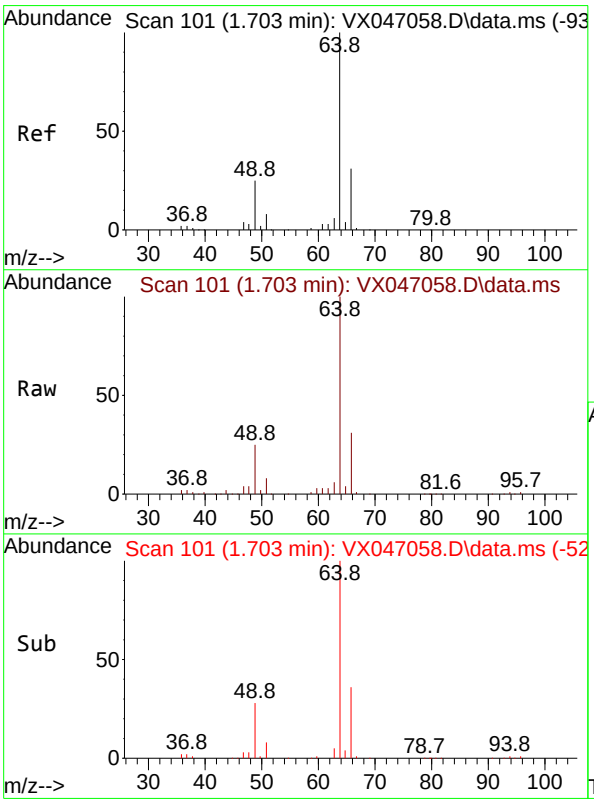
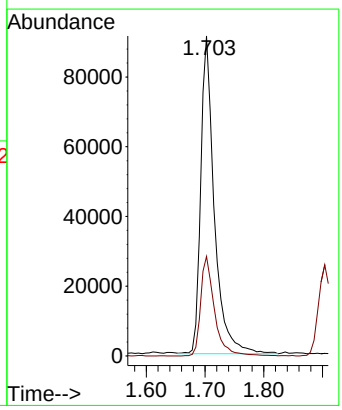


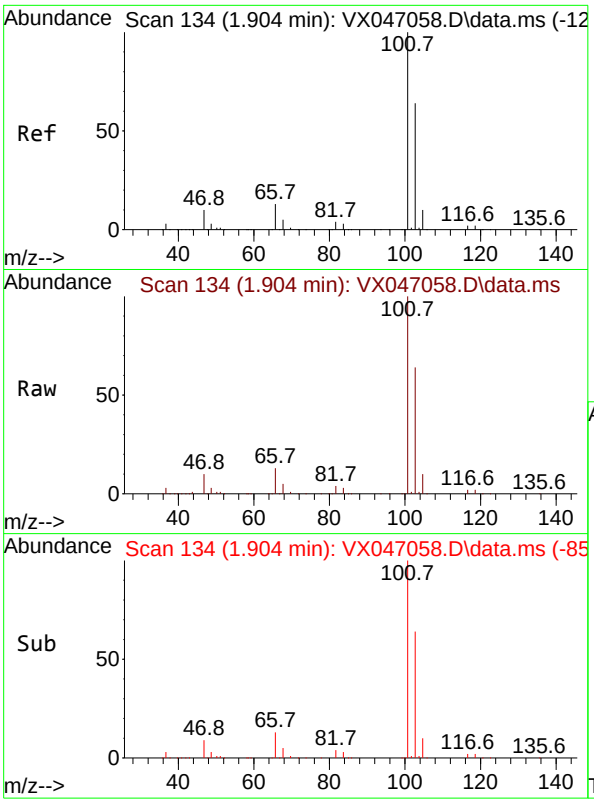


#6
Chloroethane
Concen: 50.714 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 64 Resp: 145779

Ion	Ratio	Lower	Upper
64	100		
66	31.3	25.0	37.6

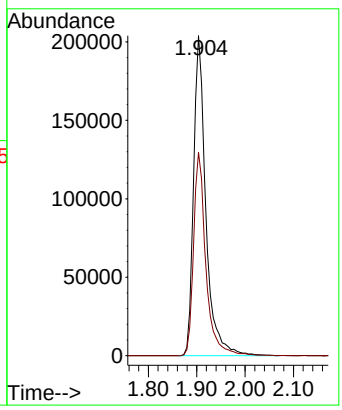




#7
Trichlorofluoromethane
Concen: 54.994 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:101 Resp: 35890

Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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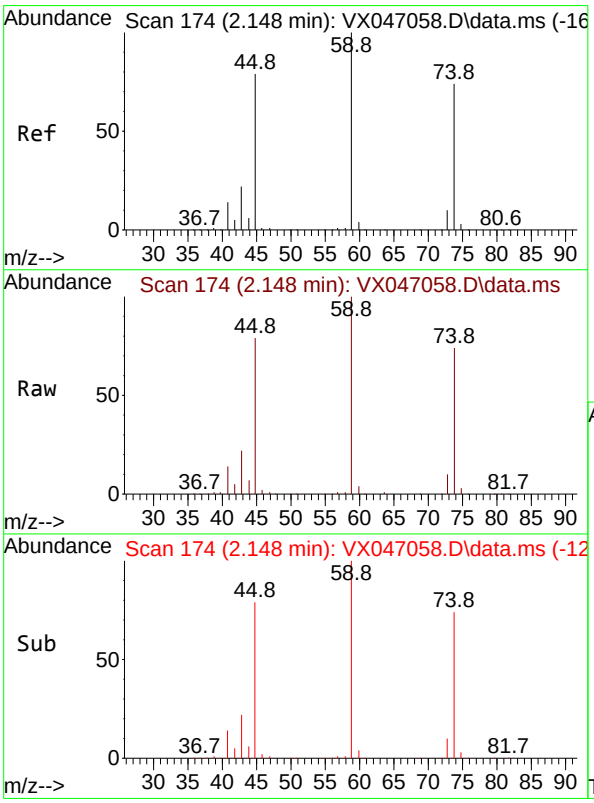
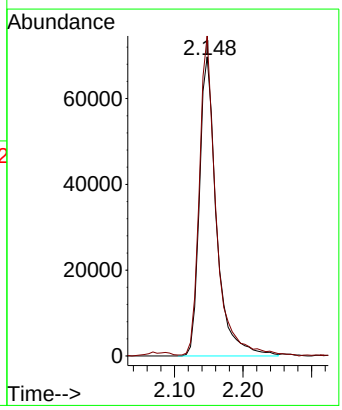
Supervised By :Mahesh Dadoda 07/22/2025

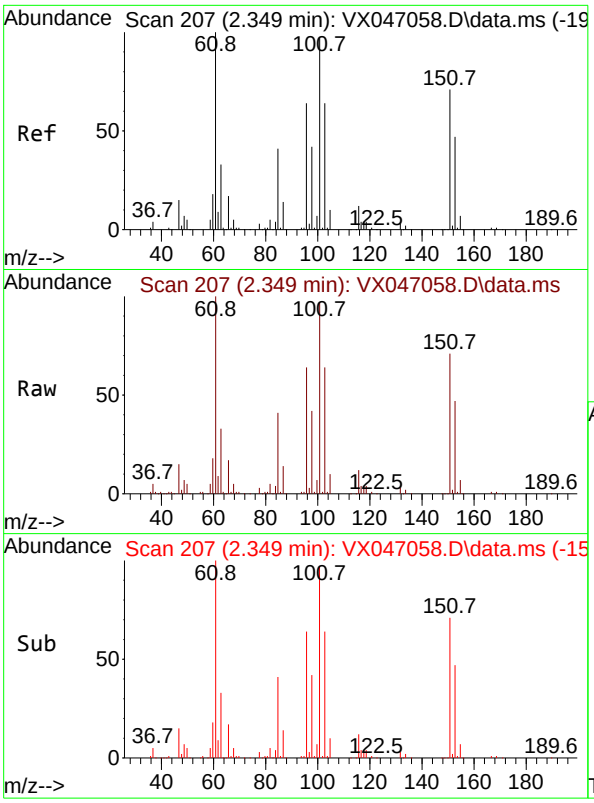


#8
Diethyl Ether
Concen: 52.535 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 74 Resp: 120887

Ion	Ratio	Lower	Upper
74	100		
45	106.0	53.0	159.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.194 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:101 Resp: 20915

Ion	Ratio	Lower	Upper
101	100		
85	44.2	35.4	53.0
151	74.0	59.2	88.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/22/2025
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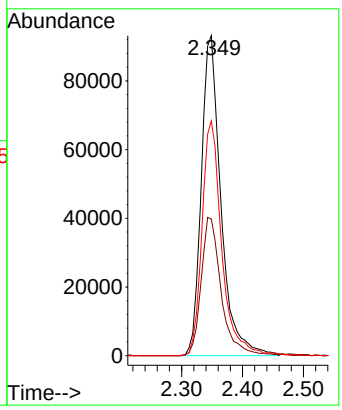
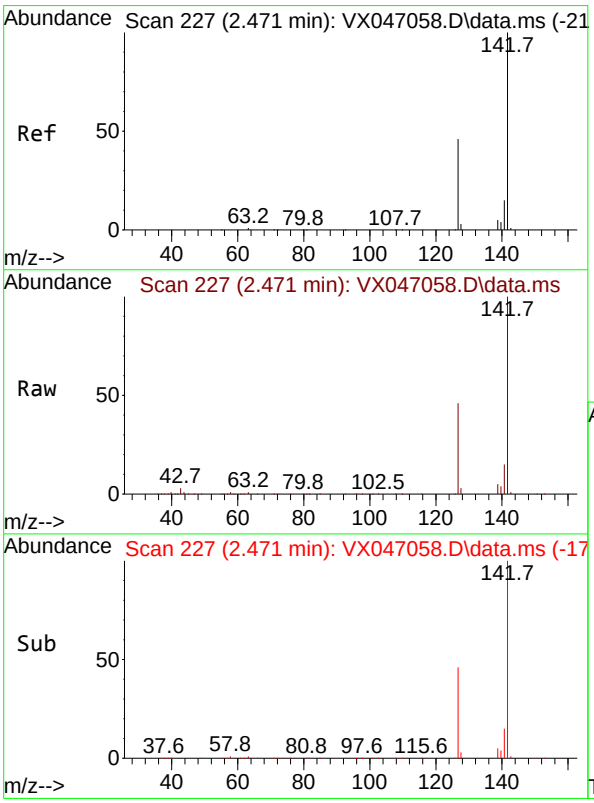
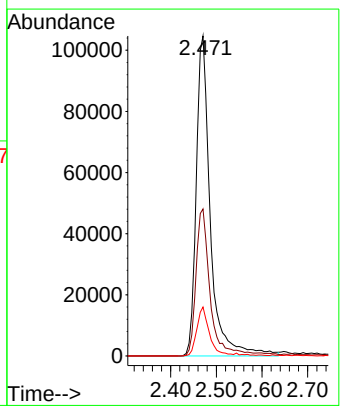


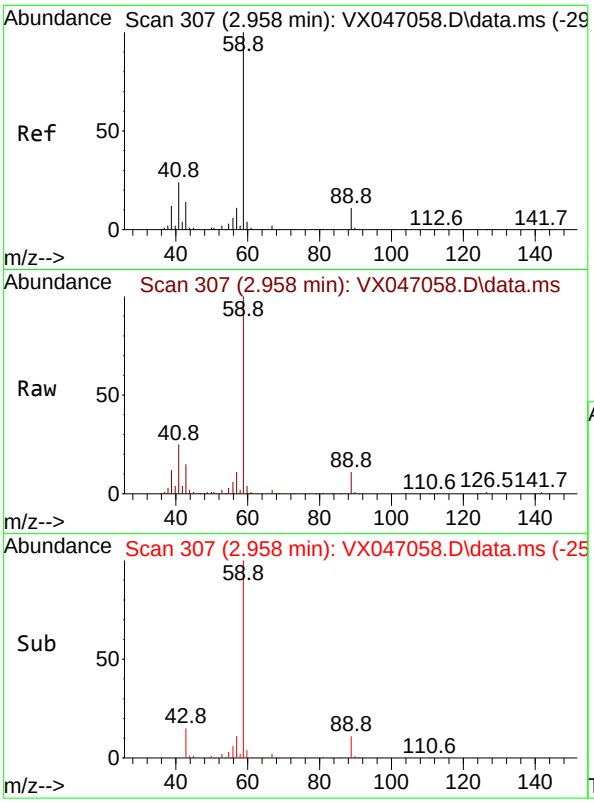


#10
Methyl Iodide
Concen: 56.237 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:142 Resp: 225356

Ion	Ratio	Lower	Upper
142	100		
127	45.7	36.6	54.8
141	13.6	10.9	16.3

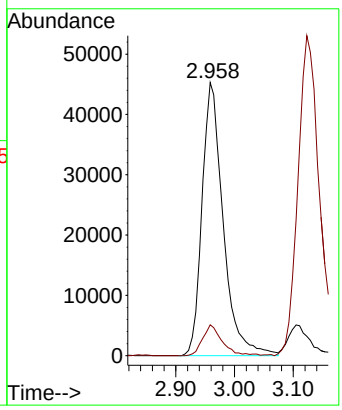




#11
Tert butyl alcohol
Concen: 251.629 ug/l
RT: 2.958 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 59 Resp: 11351

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.5	12.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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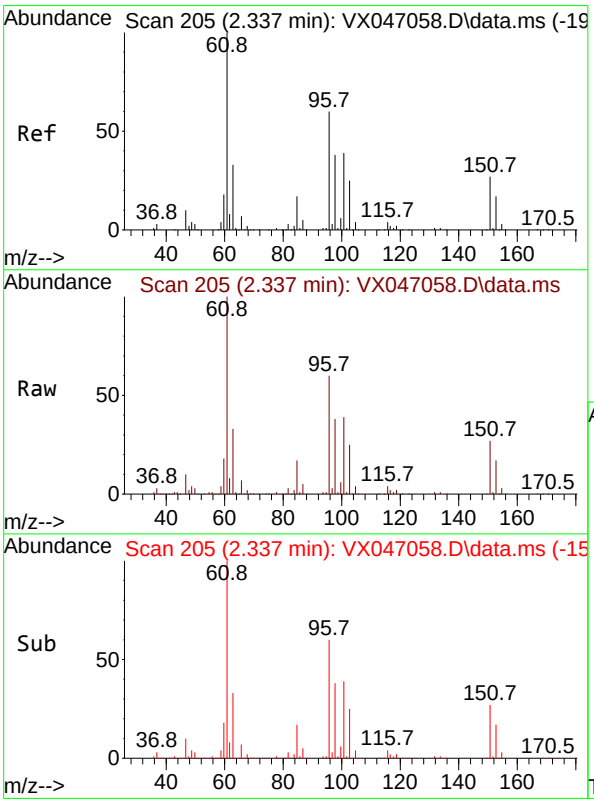
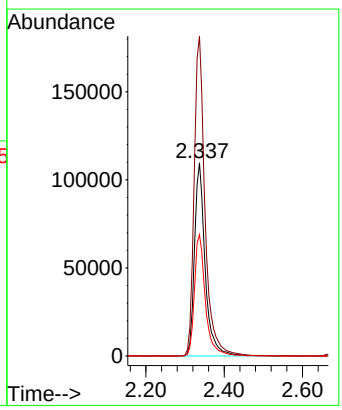
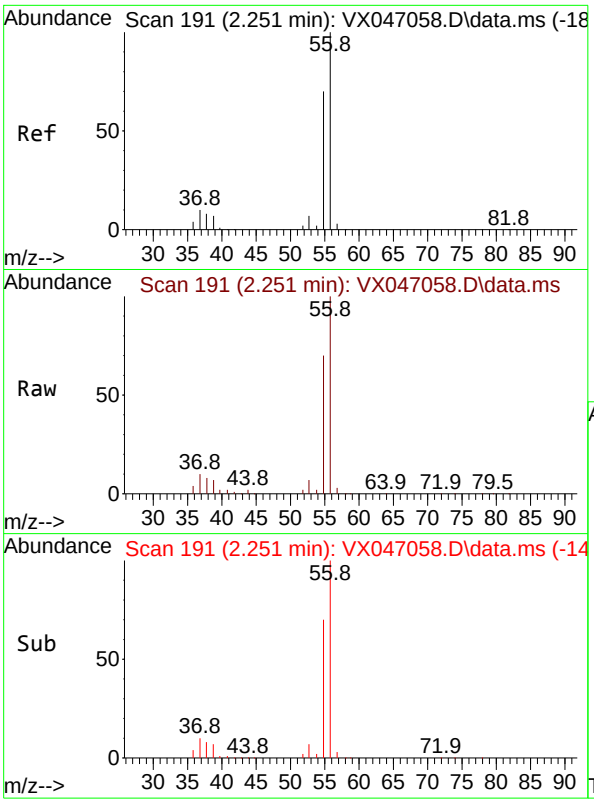


#12
1,1-Dichloroethene
Concen: 53.640 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 96 Resp: 208894

Ion	Ratio	Lower	Upper
96	100		
61	165.7	132.6	198.8
98	62.8	50.2	75.4

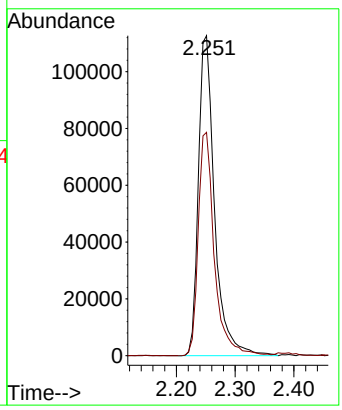




#13
Acrolein
Concen: 258.372 ug/l
RT: 2.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 56 Resp: 21474

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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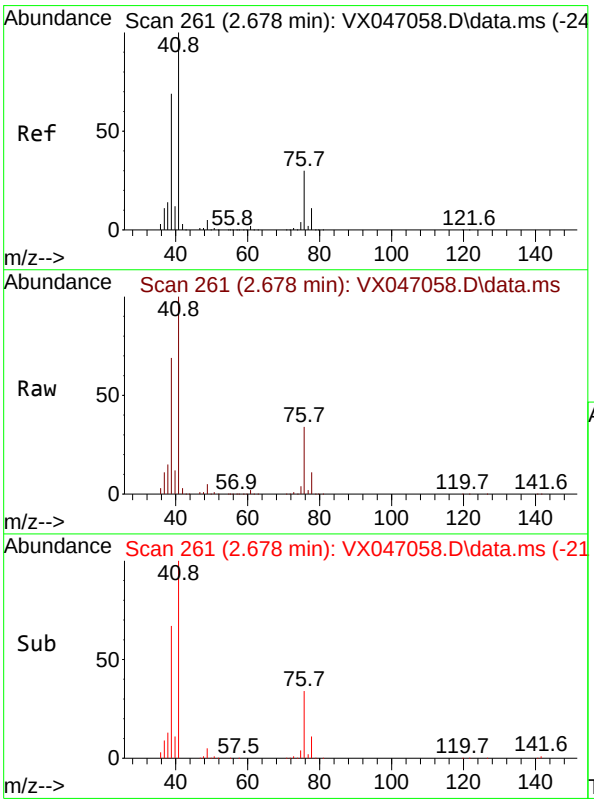
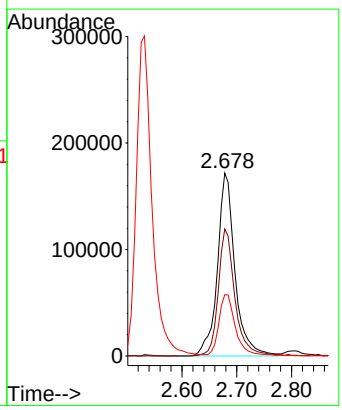
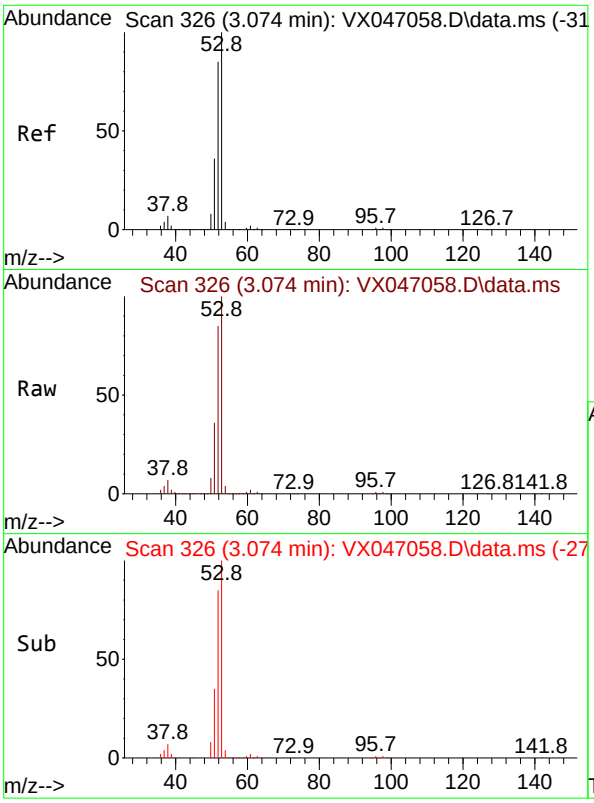


#14
Allyl chloride
Concen: 54.528 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 41 Resp: 383854

Ion	Ratio	Lower	Upper
41	100		
39	65.7	52.6	78.8
76	32.1	25.7	38.5

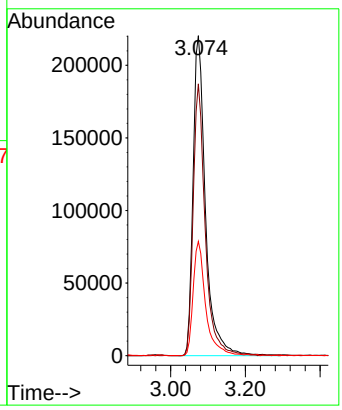




#15
Acrylonitrile
Concen: 277.051 ug/l
RT: 3.074 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 53 Resp: 51005

Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.7	98.5
51	36.0	28.8	43.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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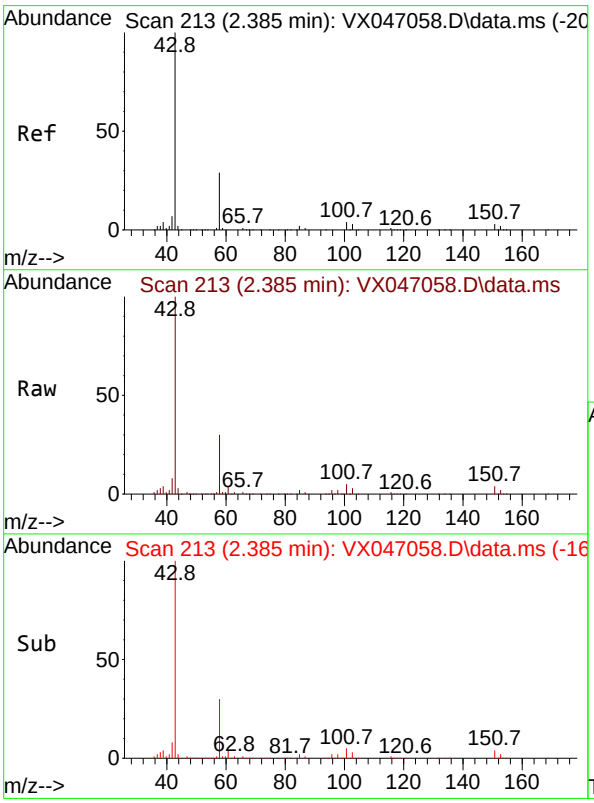
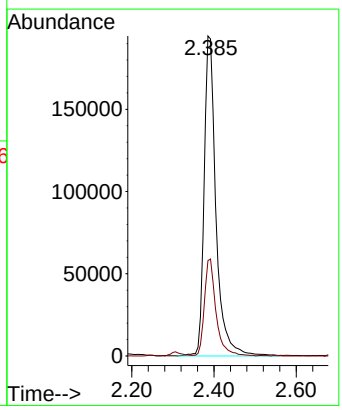
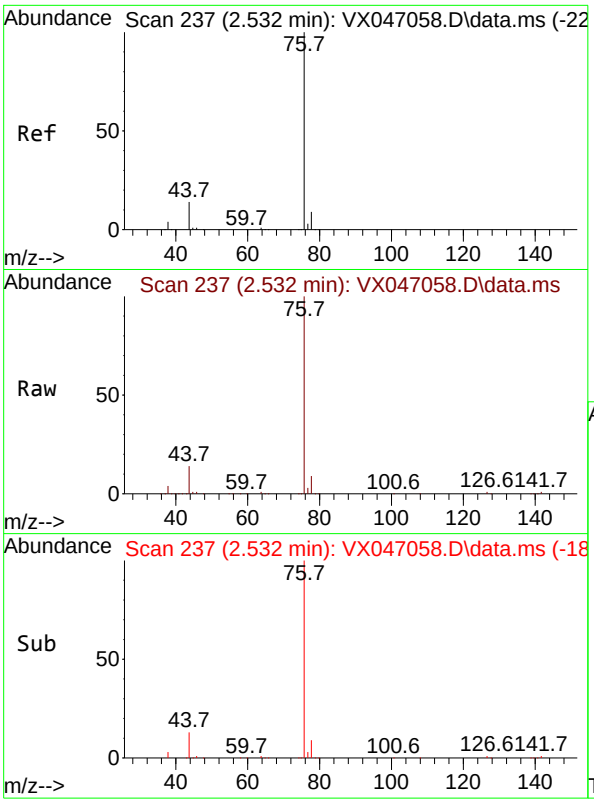


#16
Acetone
Concen: 252.239 ug/l
RT: 2.385 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 43 Resp: 390060

Ion	Ratio	Lower	Upper
43	100		
58	30.0	24.0	36.0





#17
Carbon Disulfide
Concen: 53.261 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 76 Resp: 60004

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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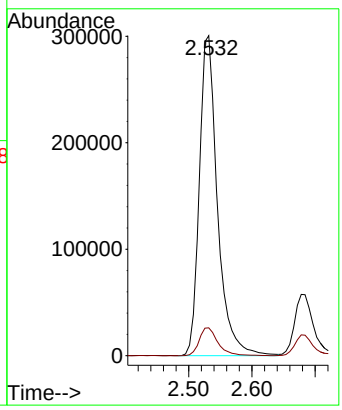
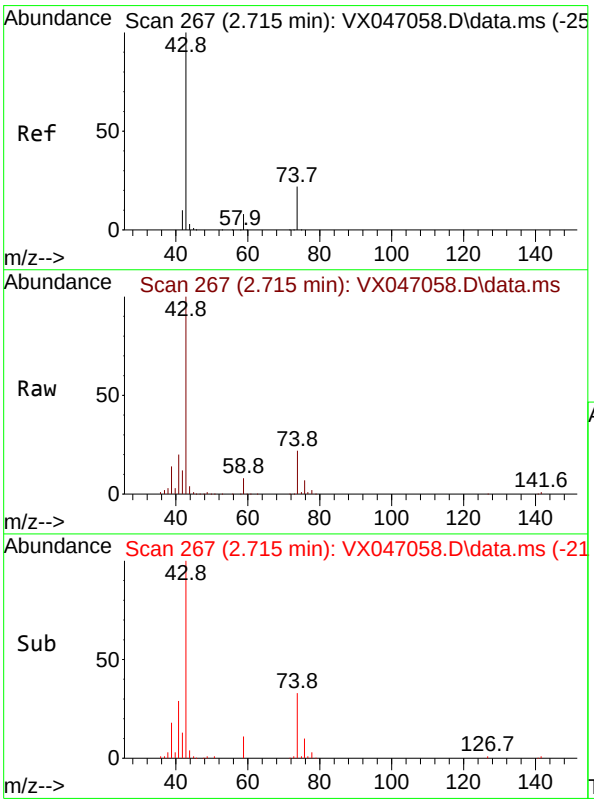
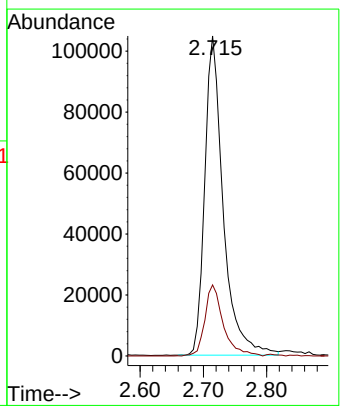


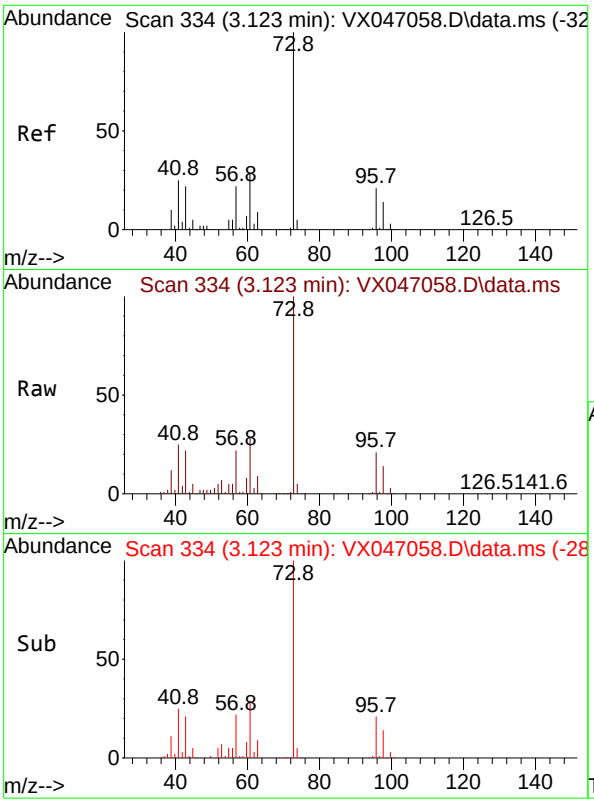


#18
Methyl Acetate
Concen: 51.848 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 43 Resp: 213070

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.7	26.5

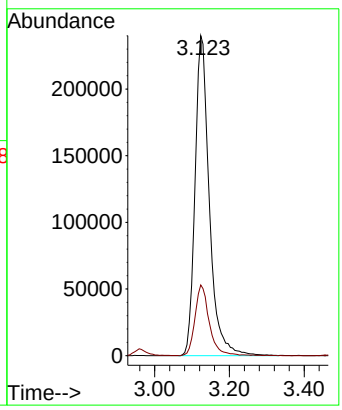




#19
Methyl tert-butyl Ether
Concen: 53.721 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 73 Resp: 63669

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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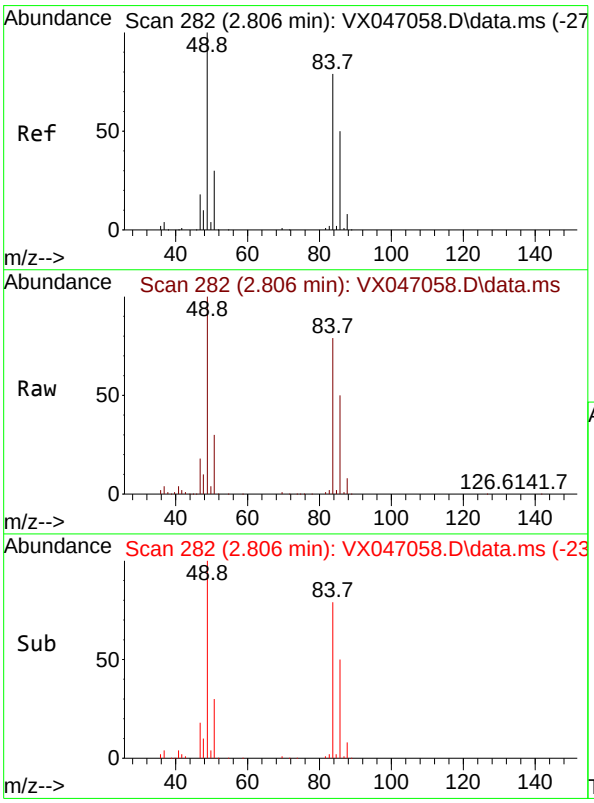
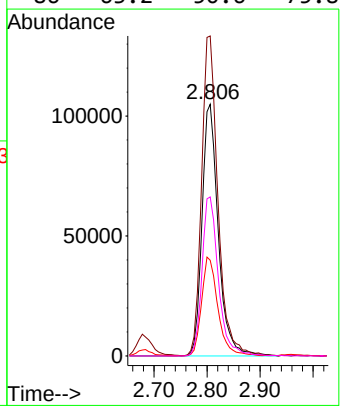
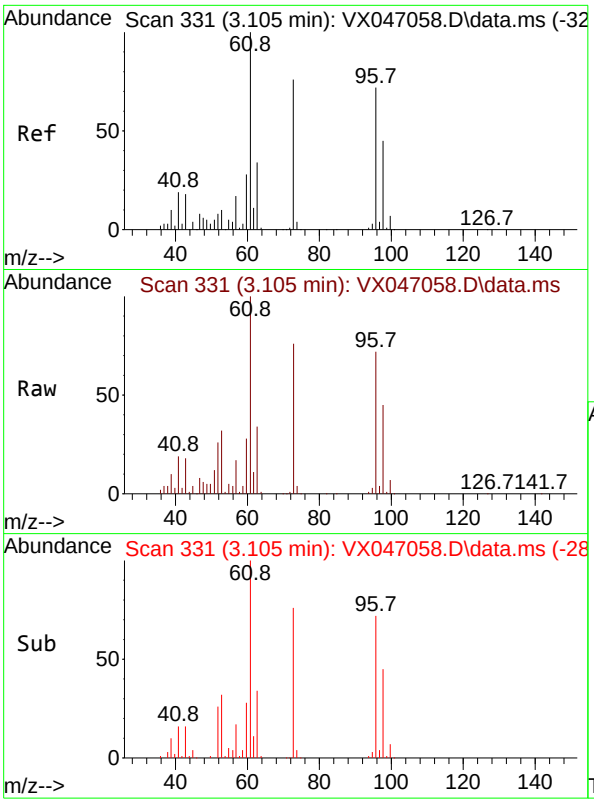


#20
Methylene Chloride
Concen: 52.585 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 84 Resp: 223713

Ion	Ratio	Lower	Upper
84	100		
49	127.0	101.6	152.4
51	37.9	30.3	45.5
86	63.2	50.6	75.8

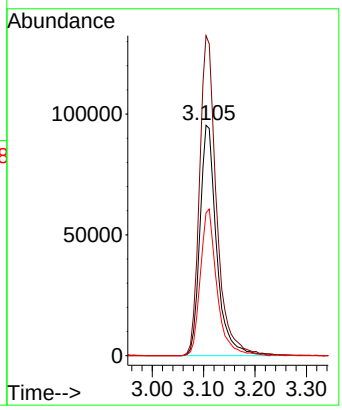




#21
trans-1,2-Dichloroethene
Concen: 54.049 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 96 Resp: 21539

Ion	Ratio	Lower	Upper
96	100		
61	138.9	111.1	166.7
98	62.0	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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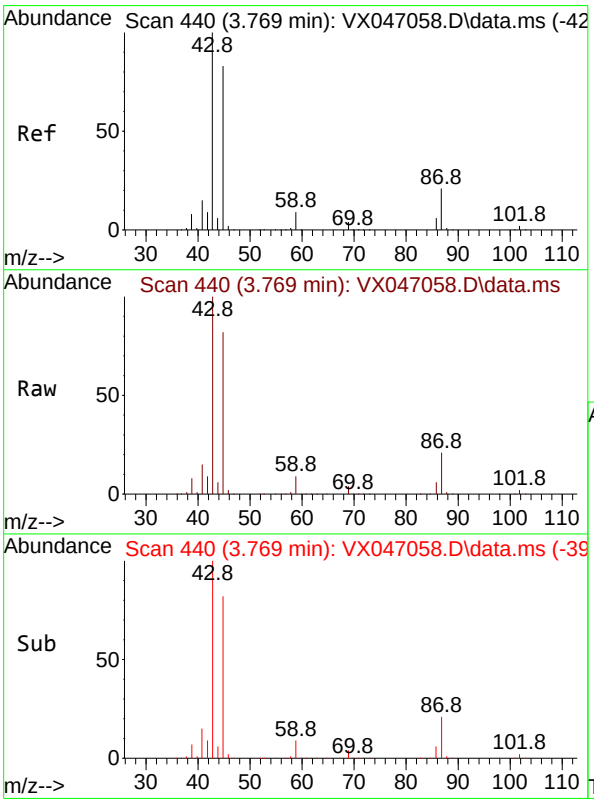
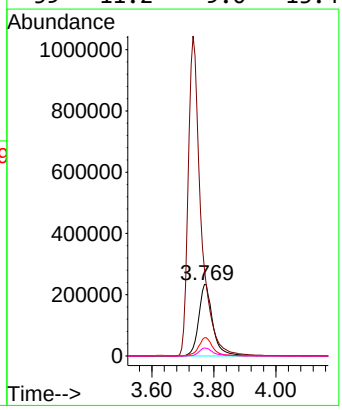
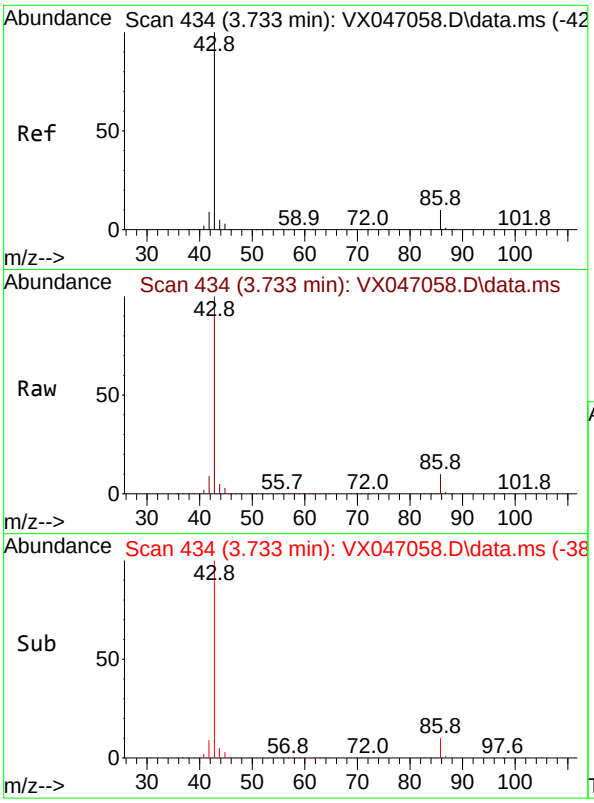


#22
Diisopropyl ether
Concen: 54.083 ug/l
RT: 3.769 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 45 Resp: 731970

Ion	Ratio	Lower	Upper
45	100		
43	121.0	96.8	145.2
87	25.6	20.5	30.7
59	11.2	9.0	13.4





#23
Vinyl Acetate
Concen: 276.847 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 43 Resp: 300527

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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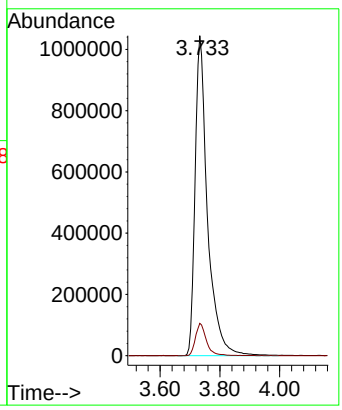
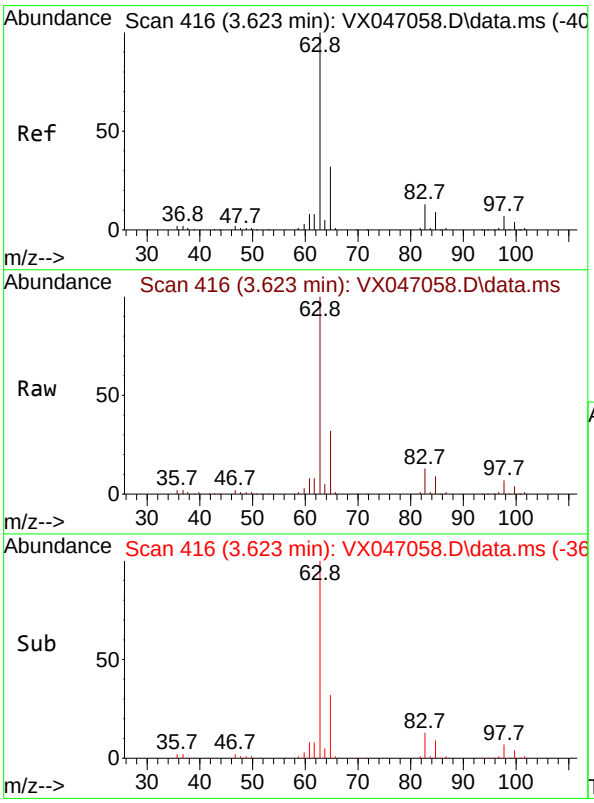
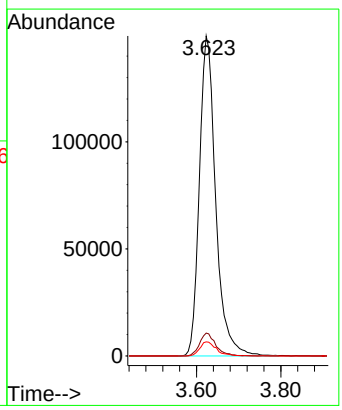


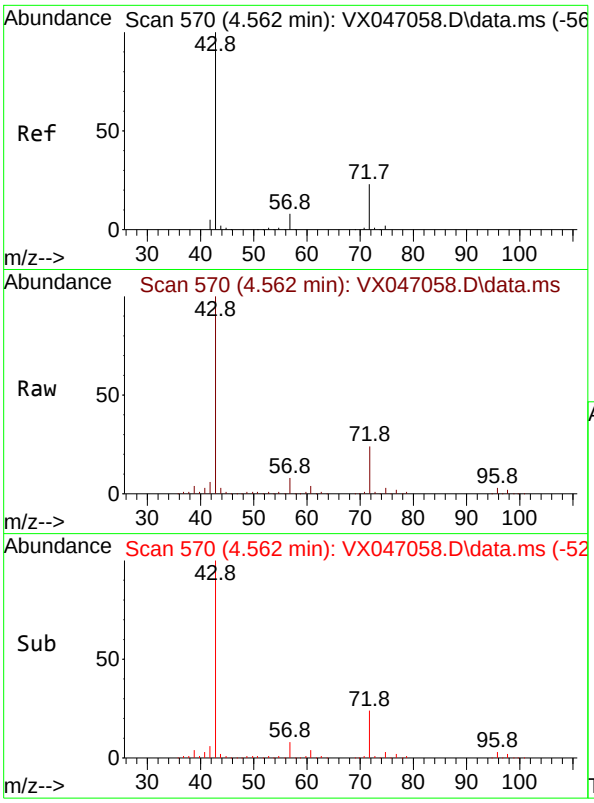


#24
1,1-Dichloroethane
Concen: 53.522 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 63 Resp: 402810

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	4.5	2.3	6.8





#25
2-Butanone
Concen: 268.961 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 43 Resp: 60561

Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.8	28.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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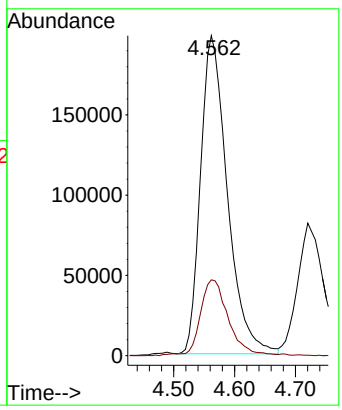
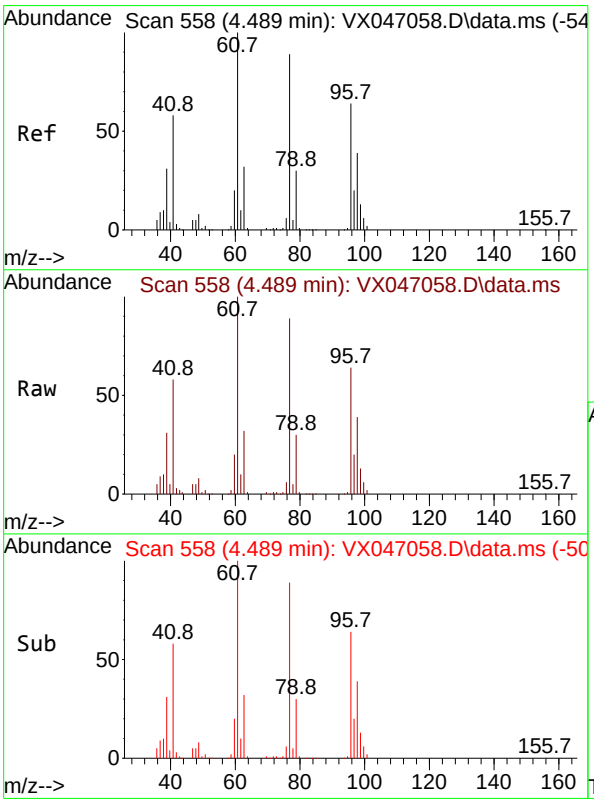
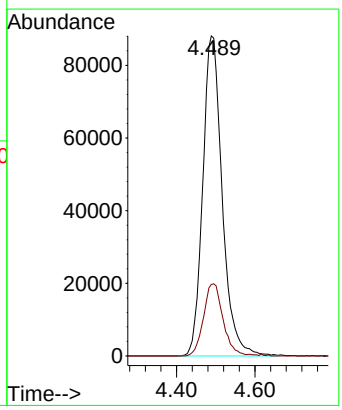


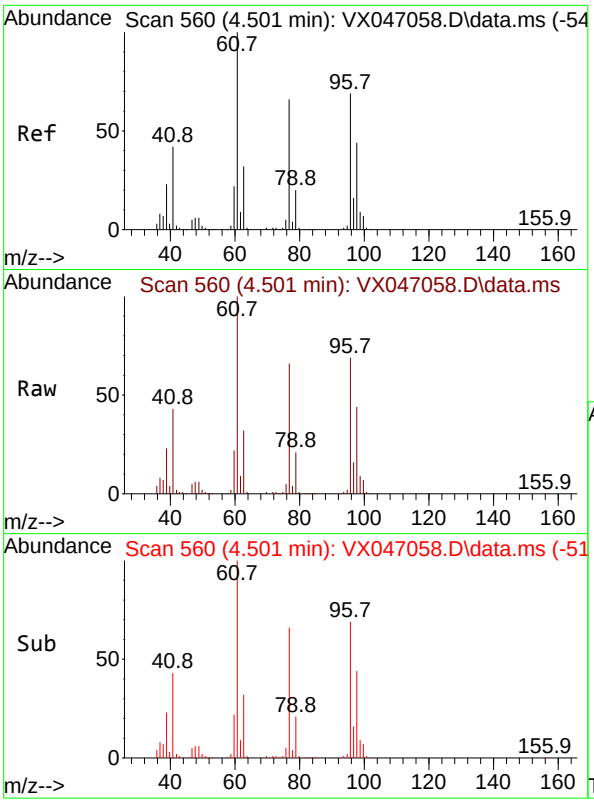


#26
2,2-Dichloropropane
Concen: 52.081 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 77 Resp: 303417

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.4	34.1

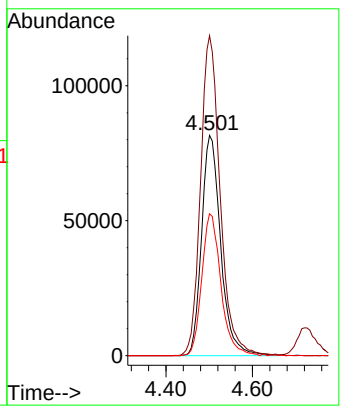




#27
cis-1,2-Dichloroethene
Concen: 53.001 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 96 Resp: 25011

Ion	Ratio	Lower	Upper
96	100		
61	149.3	0.0	298.6
98	64.4	0.0	128.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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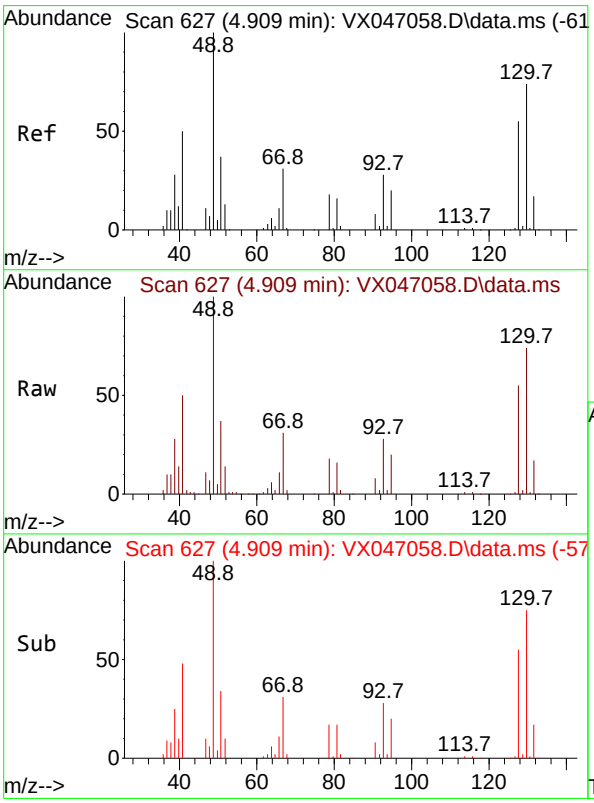
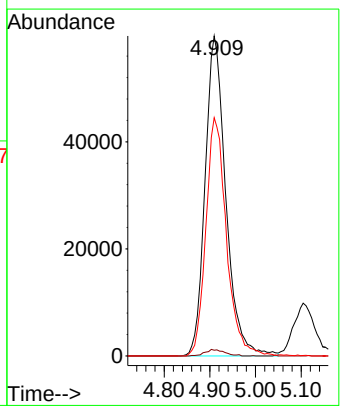
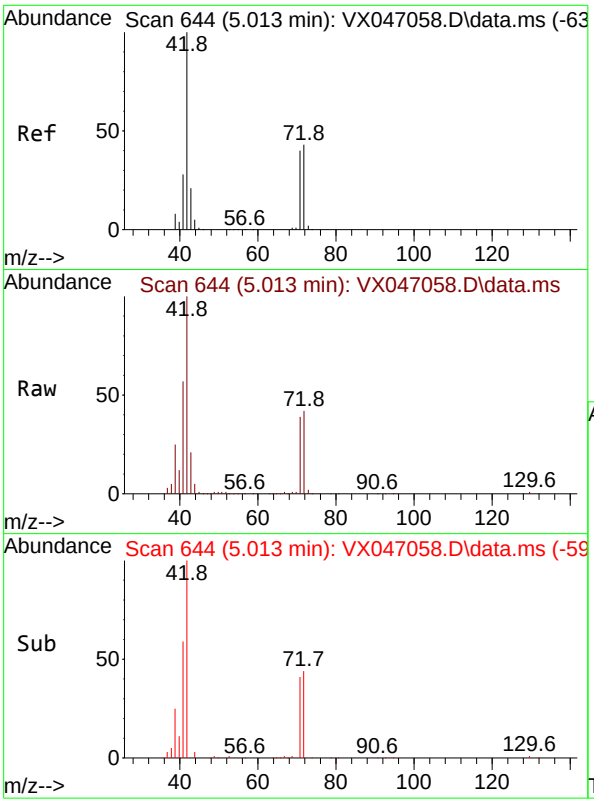


#28
Bromochloromethane
Concen: 54.536 ug/l
RT: 4.909 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 49 Resp: 188828

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	73.7	59.0	88.4

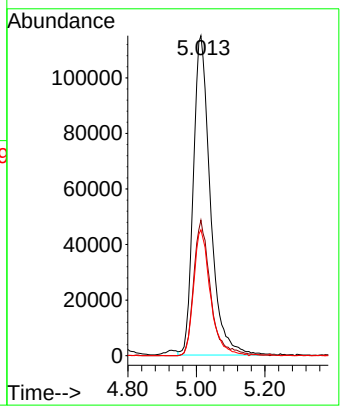




#29
Tetrahydrofuran
Concen: 273.532 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 42 Resp: 39739

Ion	Ratio	Lower	Upper
42	100		
72	42.1	33.7	50.5
71	38.7	31.0	46.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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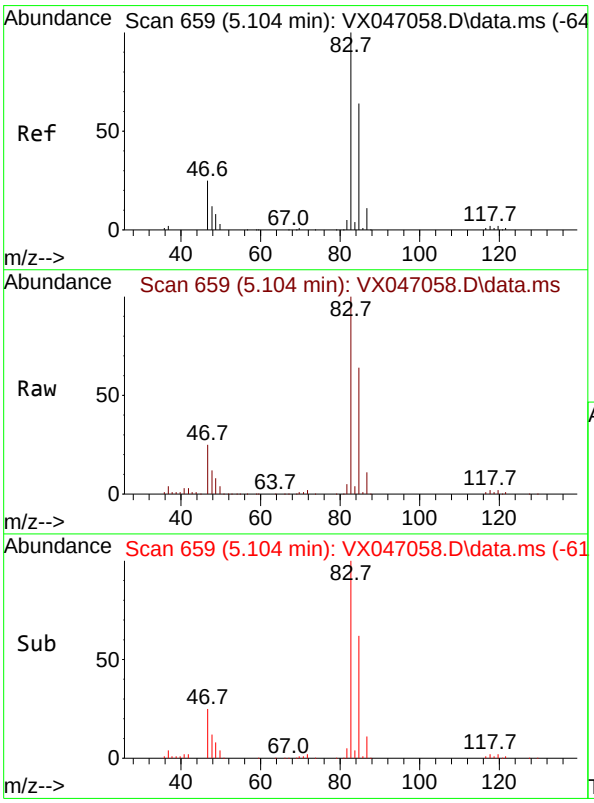
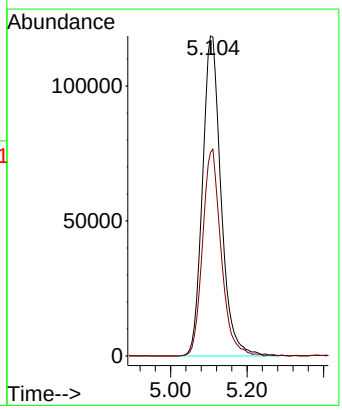
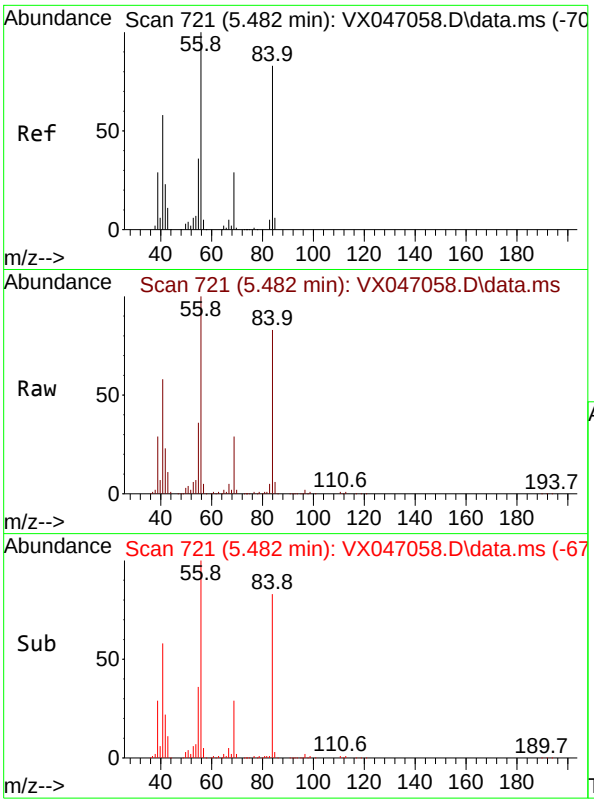


#30
Chloroform
Concen: 52.141 ug/l
RT: 5.104 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 83 Resp: 399454

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3

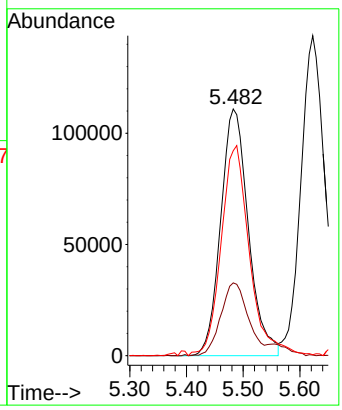




#31
Cyclohexane
Concen: 52.159 ug/l
RT: 5.482 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 56 Resp: 37639

Ion	Ratio	Lower	Upper
56	100		
69	29.1	23.3	34.9
84	83.1	66.5	99.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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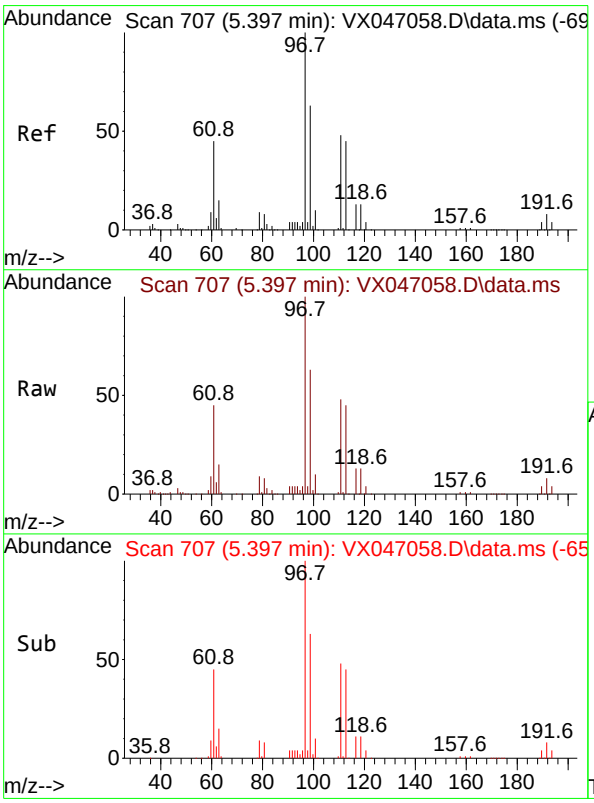
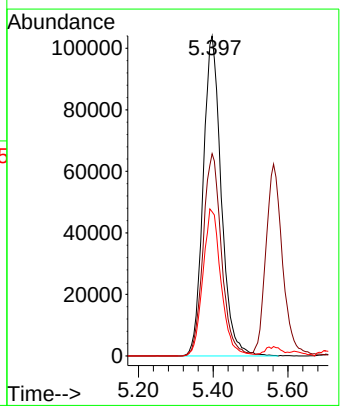
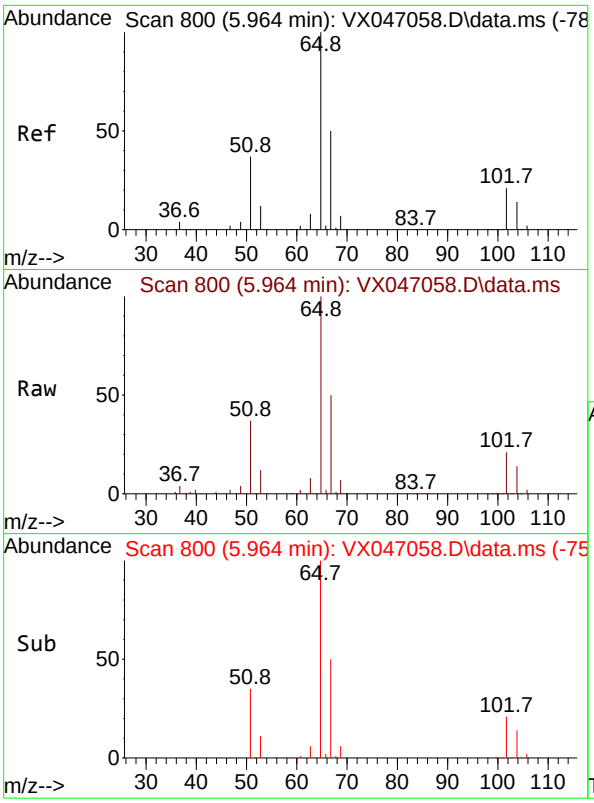


#32
1,1,1-Trichloroethane
Concen: 52.462 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 97 Resp: 349090

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.2	76.8
61	46.4	37.1	55.7

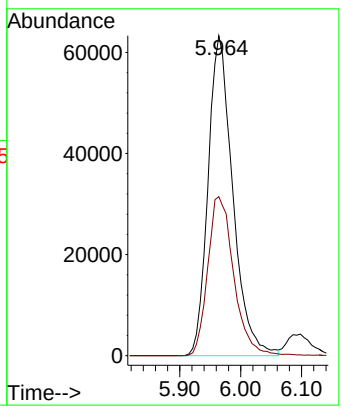




#33
1,2-Dichloroethane-d4
Concen: 46.193 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 65 Resp: 17831

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	104.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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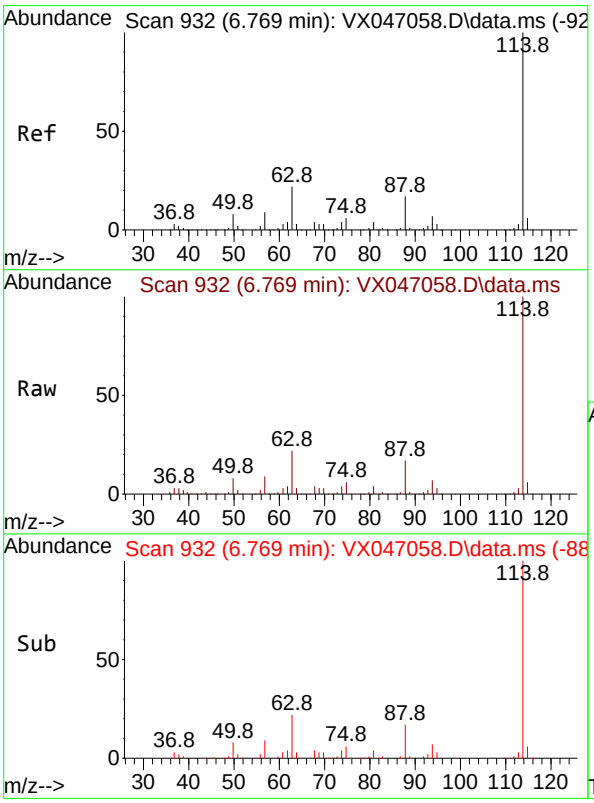
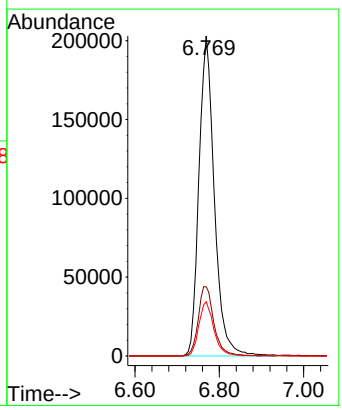
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

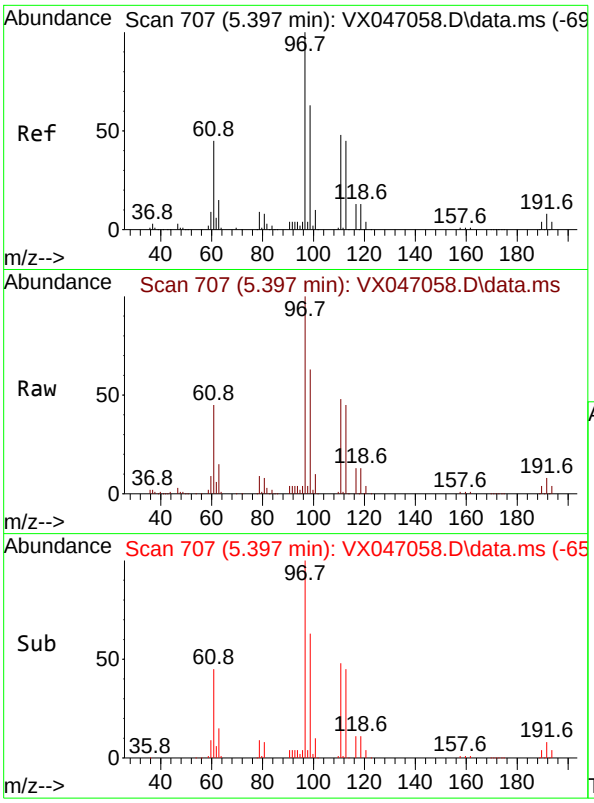


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:114 Resp: 516282

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	43.2
88	16.9	0.0	33.8

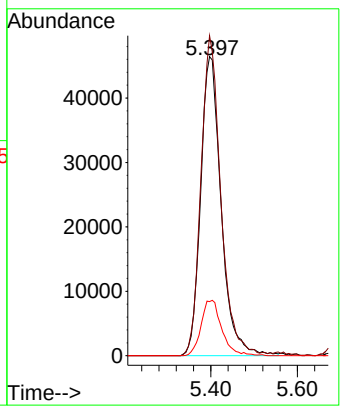




#35
Dibromofluoromethane
Concen: 47.918 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:113 Resp: 15274

Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.6	124.0
192	18.6	14.9	22.3



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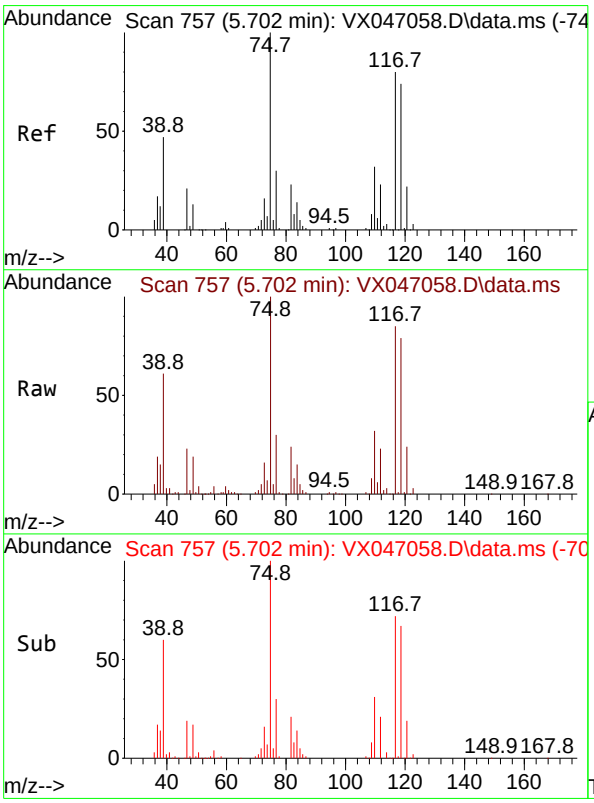
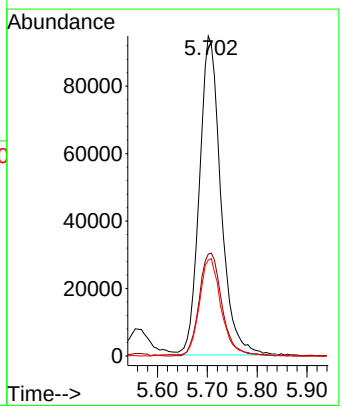
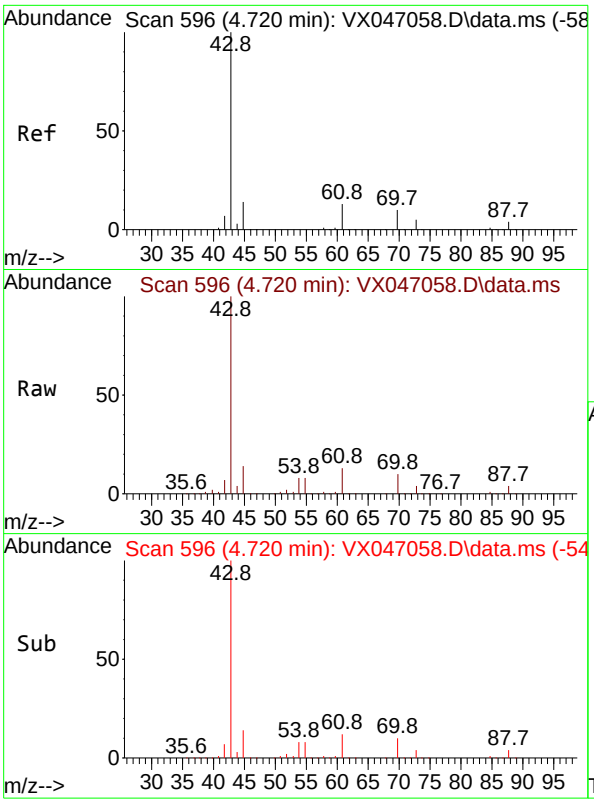


#36
1,1-Dichloropropene
Concen: 51.926 ug/l
RT: 5.702 min Scan# 757
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 75 Resp: 282151

Ion	Ratio	Lower	Upper
75	100		
110	34.3	17.2	51.5
77	31.4	25.1	37.7

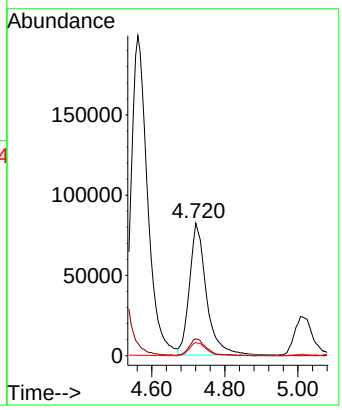




#37
Ethyl Acetate
Concen: 55.103 ug/l
RT: 4.720 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 43 Resp: 26386

Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.2	15.2
70	10.1	8.1	12.1



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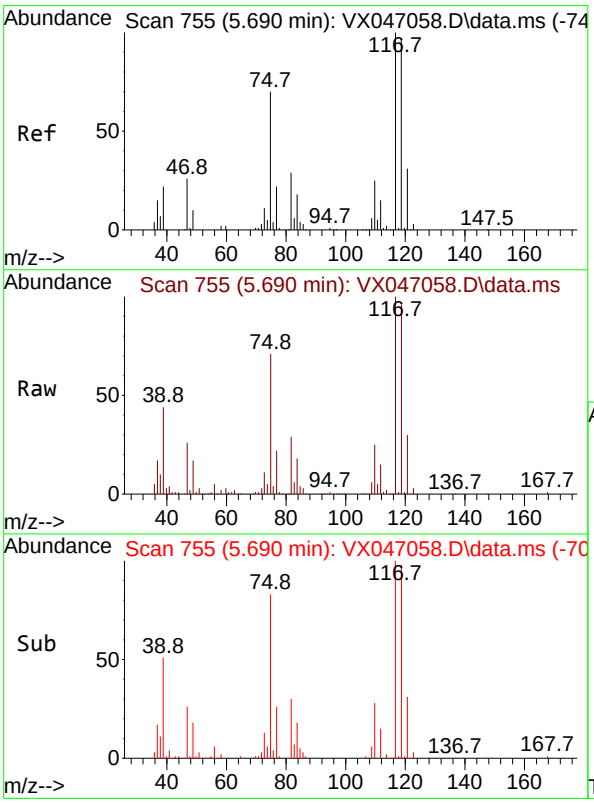
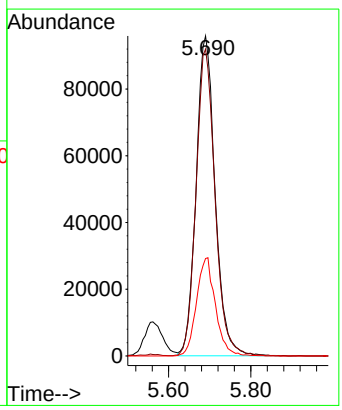
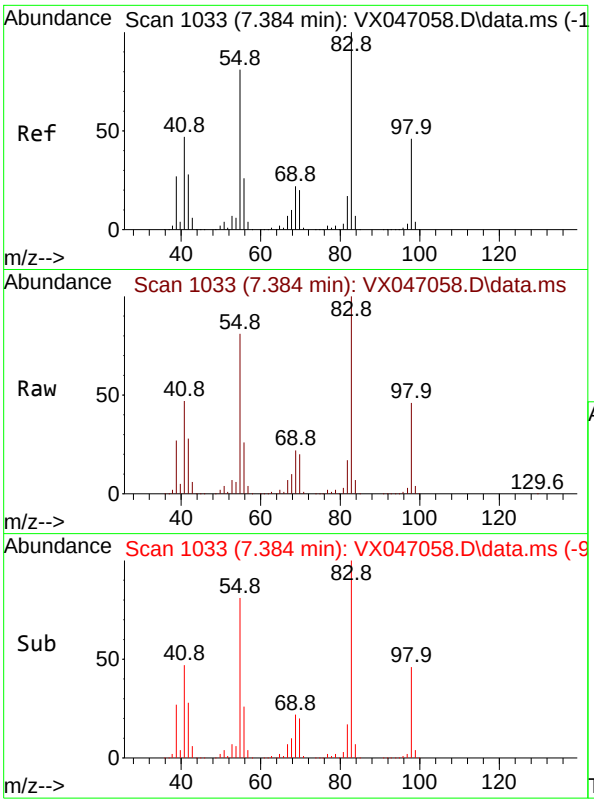


#38
Carbon Tetrachloride
Concen: 52.934 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:117 Resp: 306989

Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.6	115.0
121	30.5	24.4	36.6

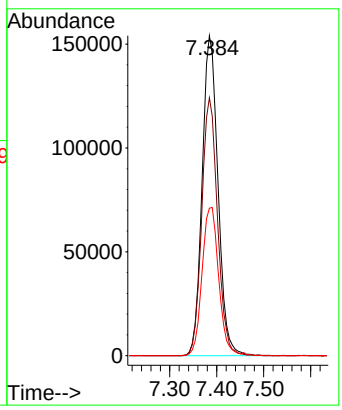




#39
Methylcyclohexane
Concen: 53.168 ug/l
RT: 7.384 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 83 Resp: 36070

Ion	Ratio	Lower	Upper
83	100		
55	80.6	64.5	96.7
98	46.1	36.9	55.3



Instrument :
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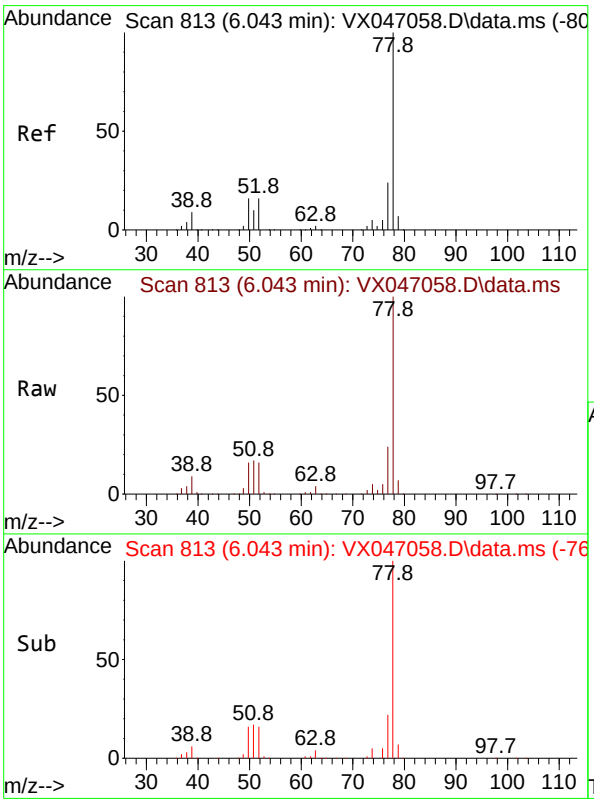
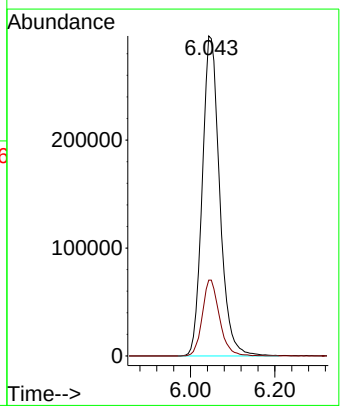
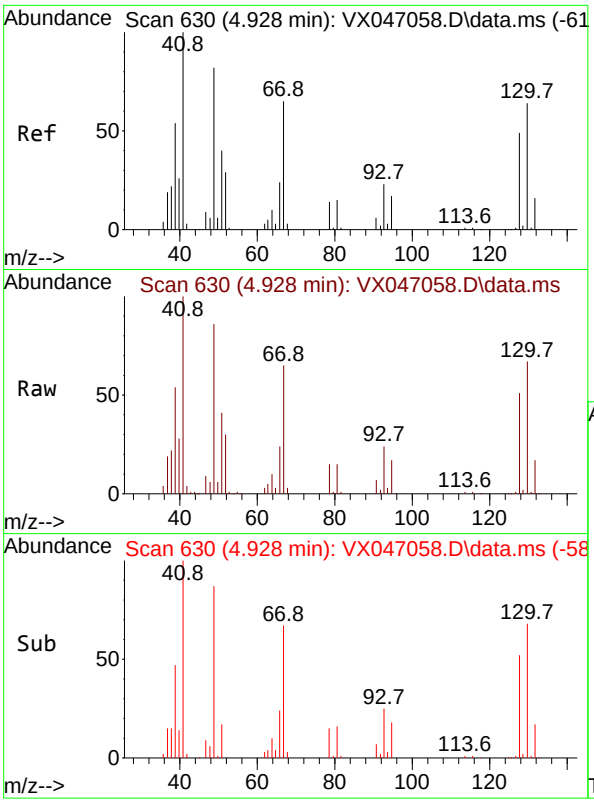


#40
Benzene
Concen: 54.180 ug/l
RT: 6.043 min Scan# 813
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 78 Resp: 851995

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4

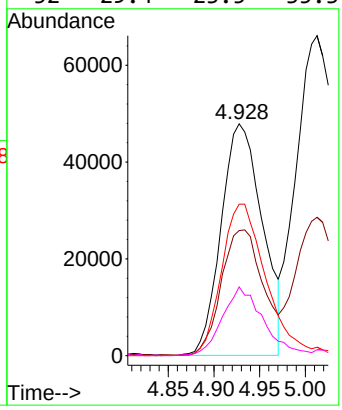




#41
Methacrylonitrile
Concen: 57.494 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 41 Resp: 15051

Ion	Ratio	Lower	Upper
41	100		
39	55.2	44.2	66.2
67	70.5	56.4	84.6
52	29.4	23.5	35.3



Instrument :
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ClientSampleId :
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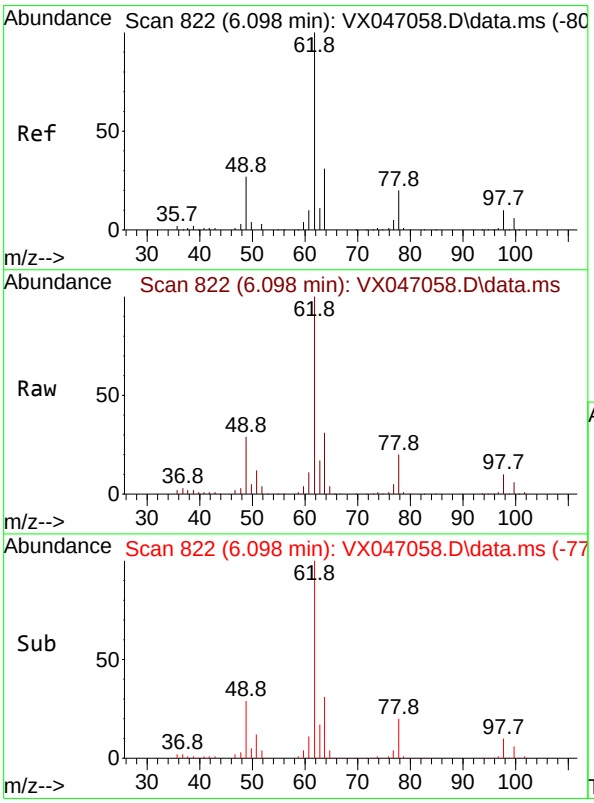
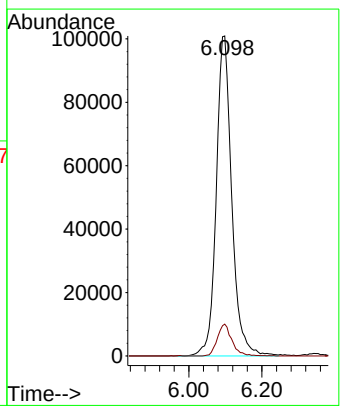
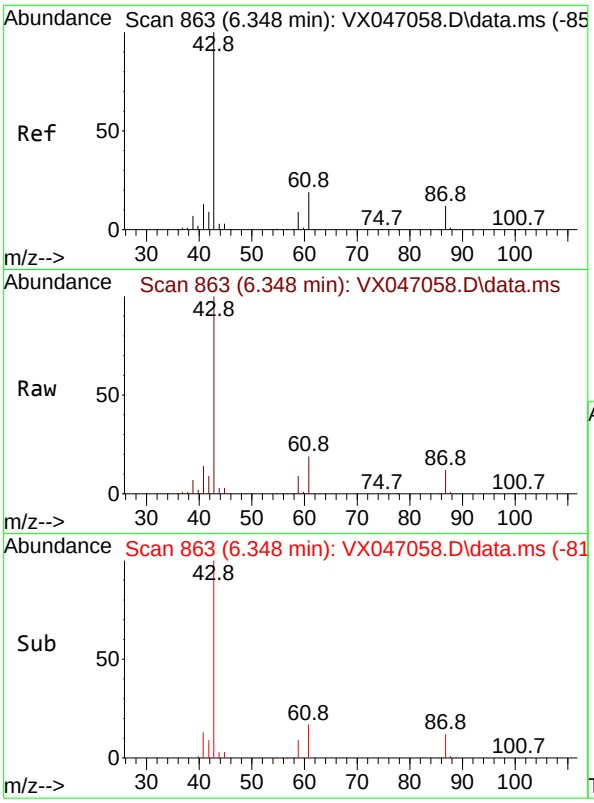


#42
1,2-Dichloroethane
Concen: 53.686 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 62 Resp: 297385

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.8





#43
Isopropyl Acetate
Concen: 56.192 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 43 Resp: 43861

Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.1	22.7
87	12.1	9.7	14.5

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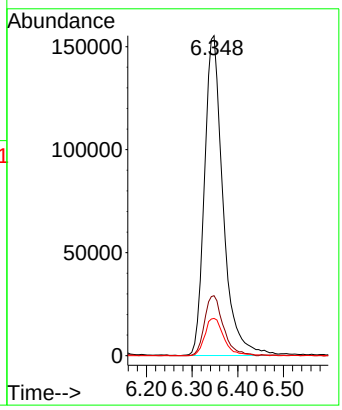
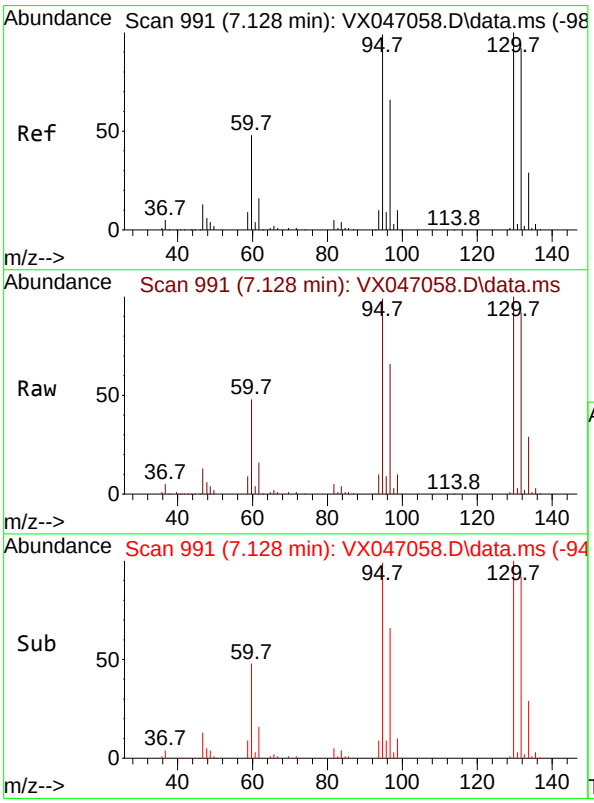
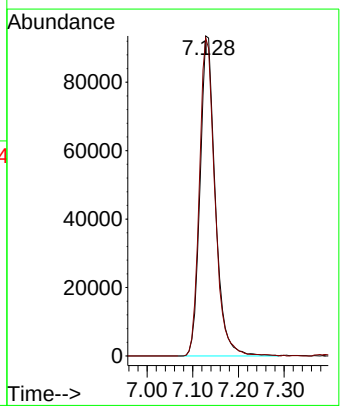


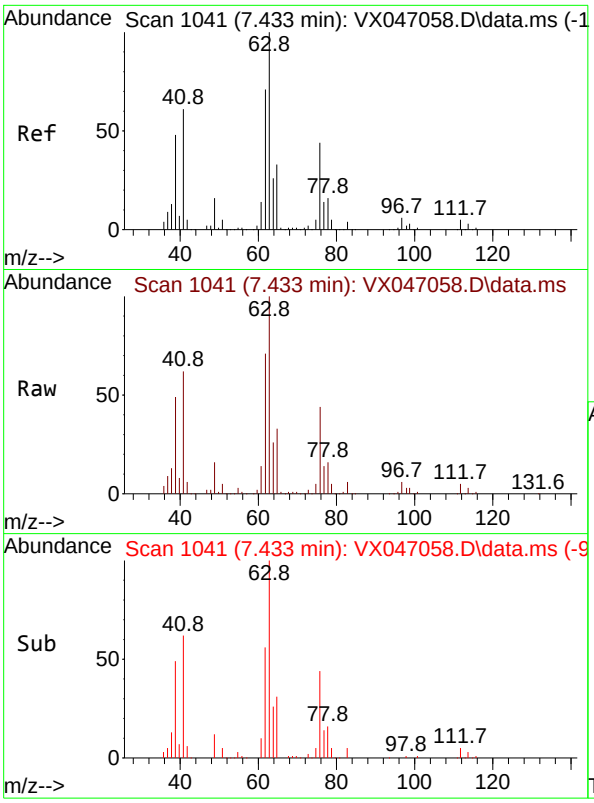


#44
Trichloroethene
Concen: 53.751 ug/l
RT: 7.128 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:130 Resp: 216747

Ion	Ratio	Lower	Upper
130	100		
95	99.3	0.0	198.6





#45
1,2-Dichloropropane
Concen: 53.539 ug/l
RT: 7.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 63 Resp: 21086

Ion	Ratio	Lower	Upper
63	100		
65	32.9	26.3	39.5

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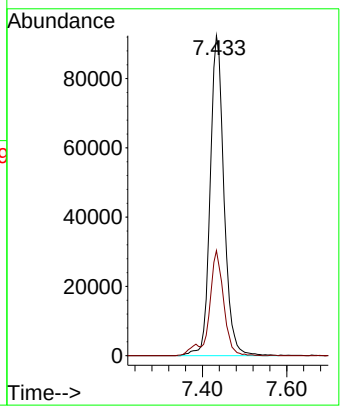
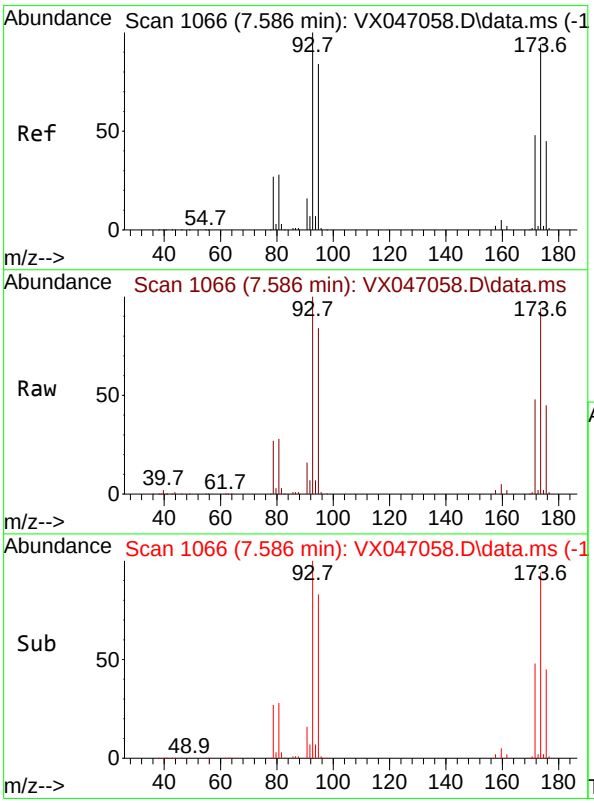
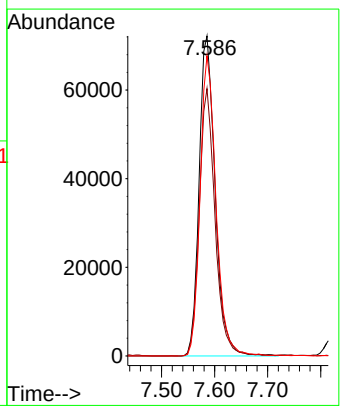


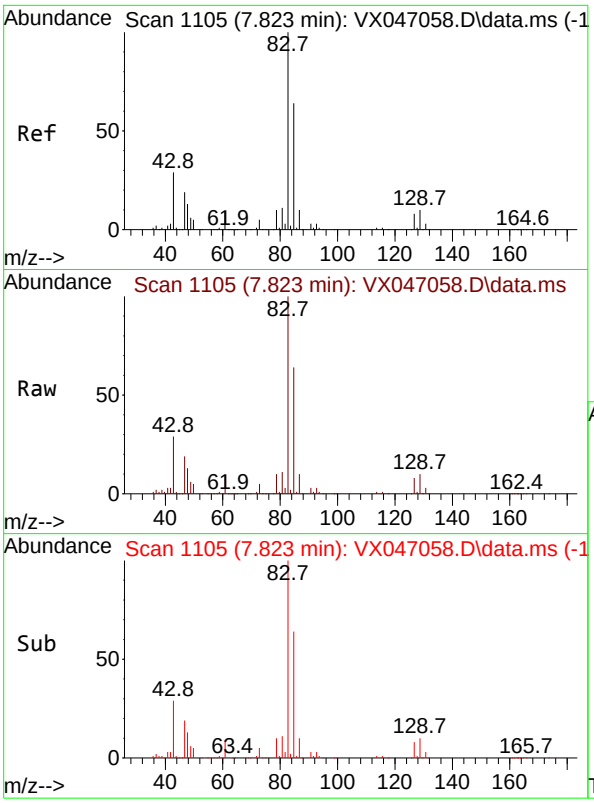


#46
Dibromomethane
Concen: 54.916 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 93 Resp: 151672

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.9	98.9
174	93.3	74.6	112.0

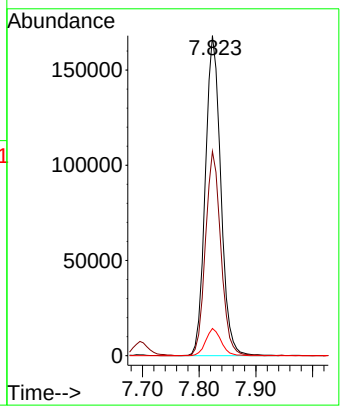




#47
Bromodichloromethane
Concen: 54.225 ug/l
RT: 7.823 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 83 Resp: 31877

Ion	Ratio	Lower	Upper
83	100		
85	62.4	49.9	74.9
127	8.3	6.6	10.0



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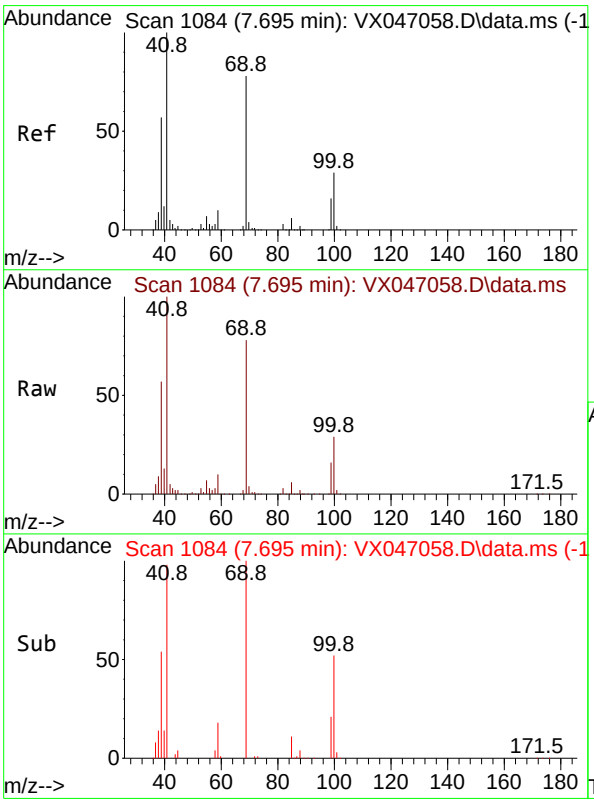
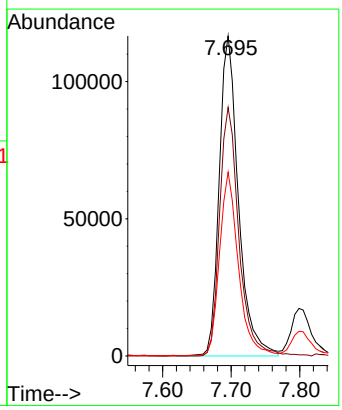
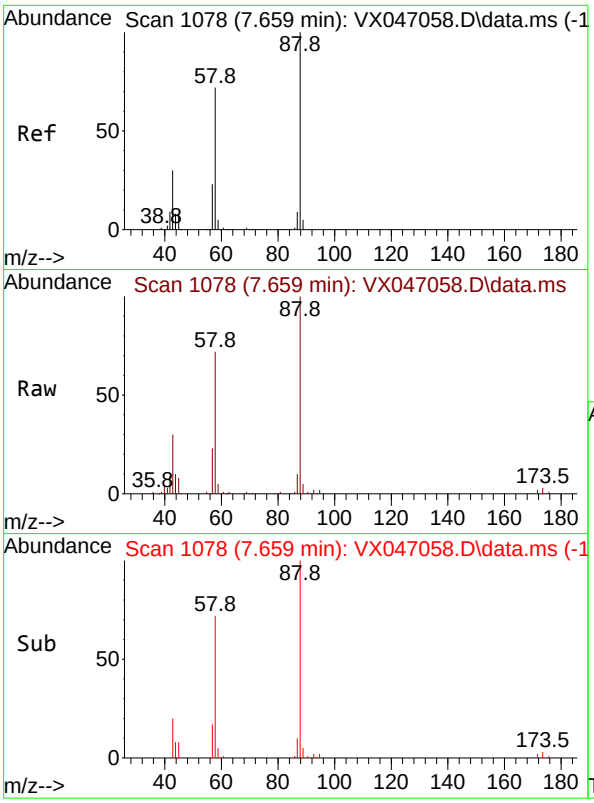


#48
Methyl methacrylate
Concen: 53.391 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 41 Resp: 227033

Ion	Ratio	Lower	Upper
41	100		
69	77.9	62.3	93.5
39	56.0	44.8	67.2





#49
1,4-Dioxane
Concen: 1114.967 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 88 Resp: 5392

Ion	Ratio	Lower	Upper
88	100		
43	42.0	33.6	50.4
58	73.5	58.8	88.2

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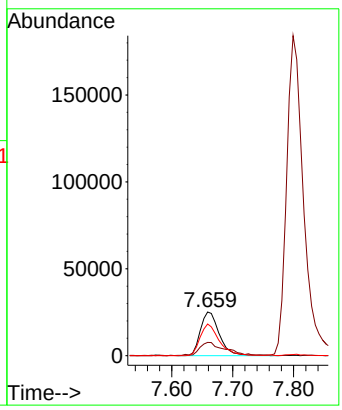
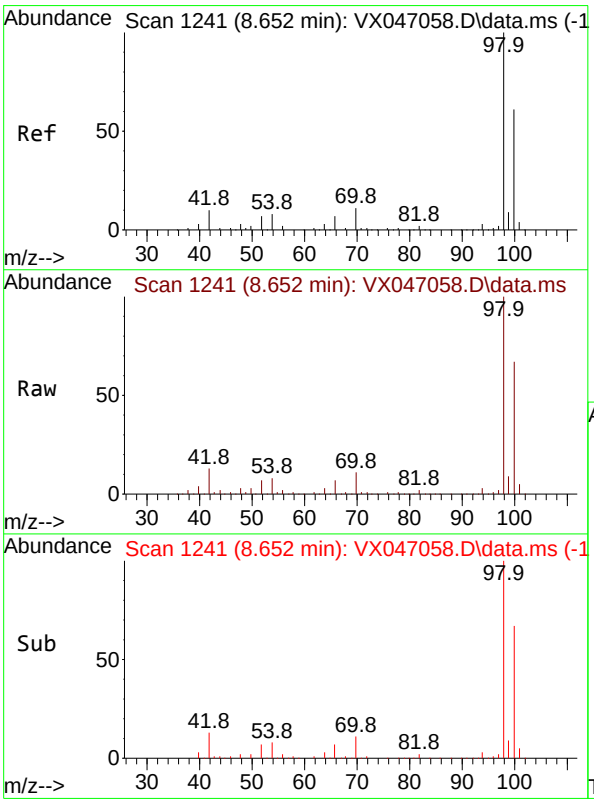
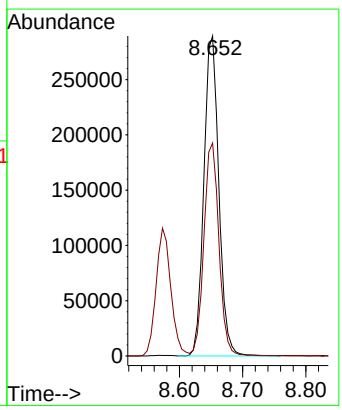


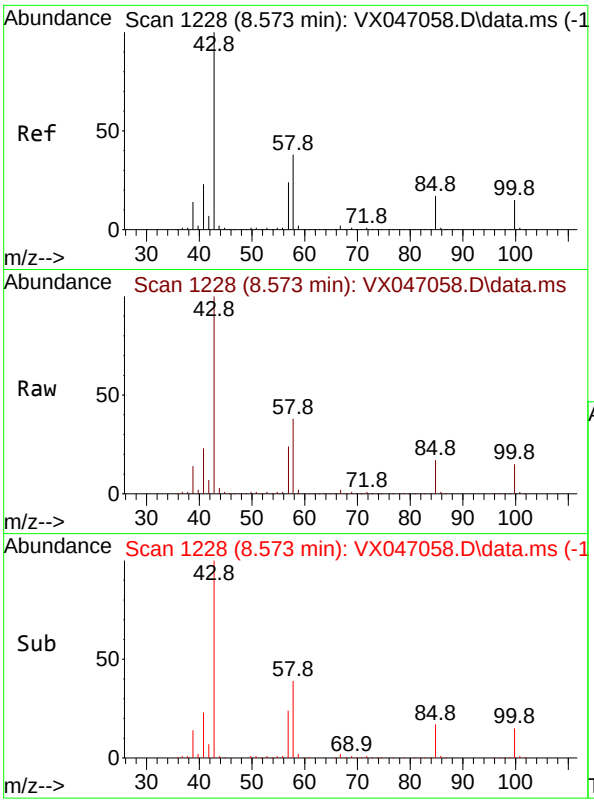


#50
Toluene-d8
Concen: 46.217 ug/l
RT: 8.652 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 98 Resp: 477108

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.3	79.9

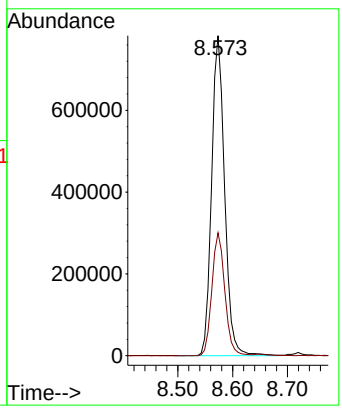




#51
4-Methyl-2-Pentanone
Concen: 276.384 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 43 Resp: 128229

Ion	Ratio	Lower	Upper
43	100		
58	38.2	30.6	45.8



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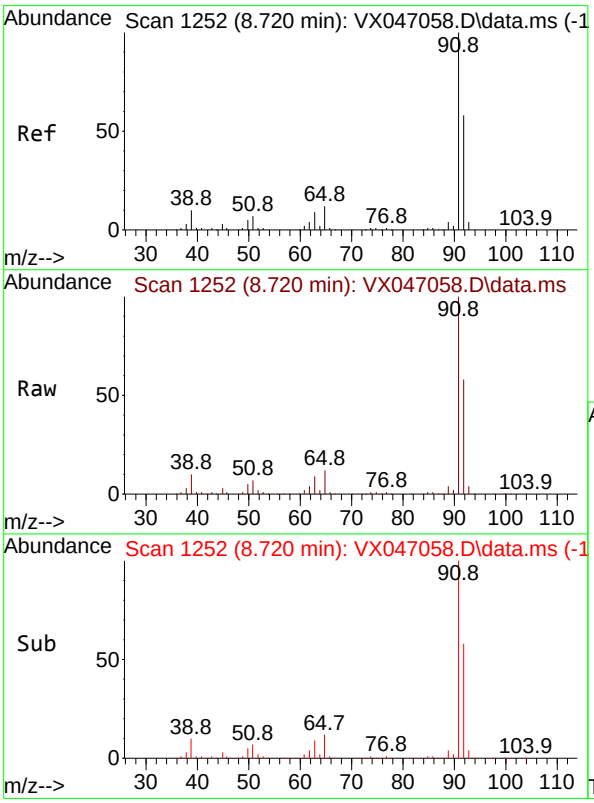
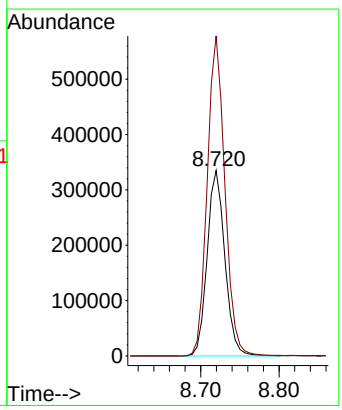
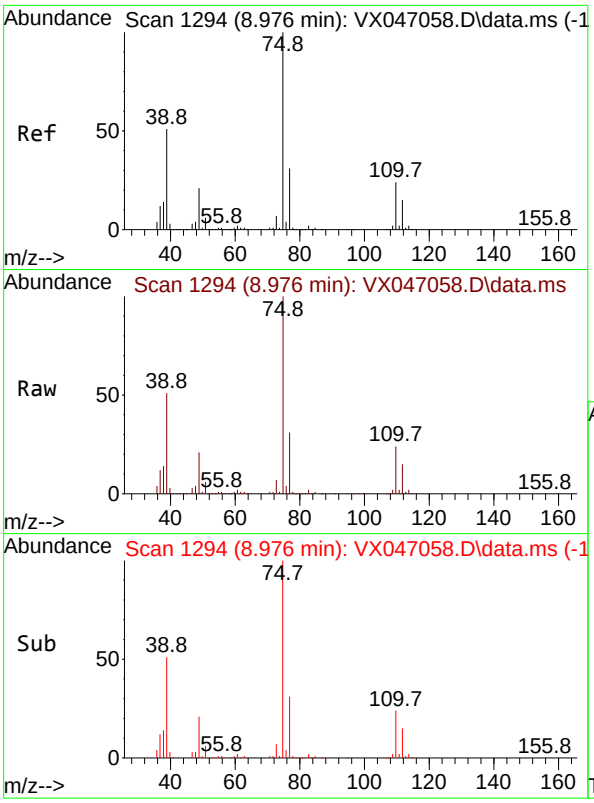


#52
Toluene
Concen: 54.288 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 92 Resp: 524916

Ion	Ratio	Lower	Upper
92	100		
91	172.4	137.9	206.9

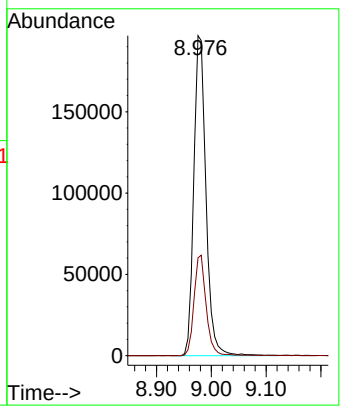




#53
t-1,3-Dichloropropene
Concen: 55.044 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 75 Resp: 30556

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.5	36.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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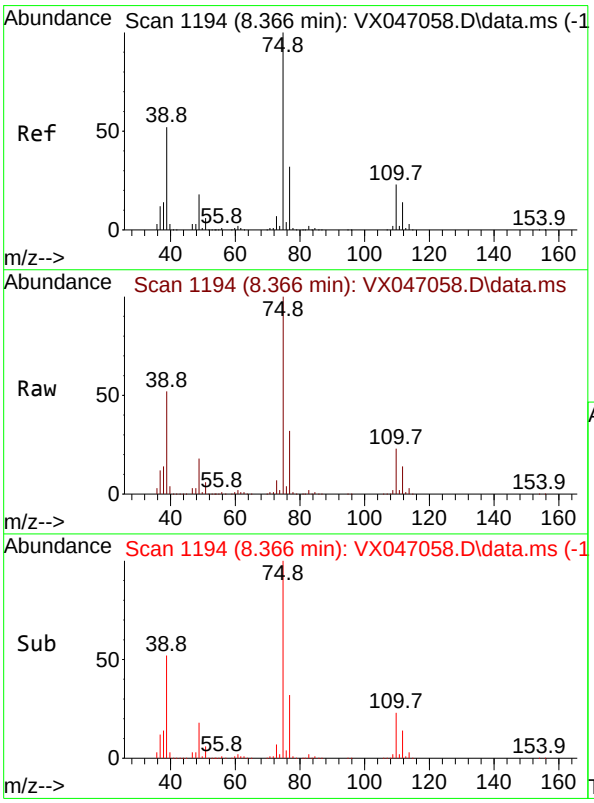
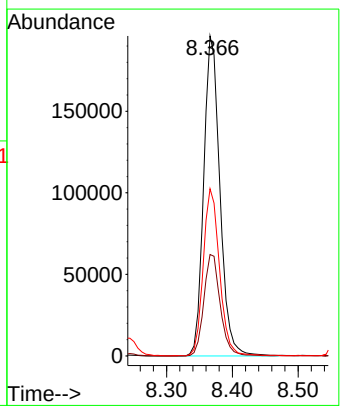
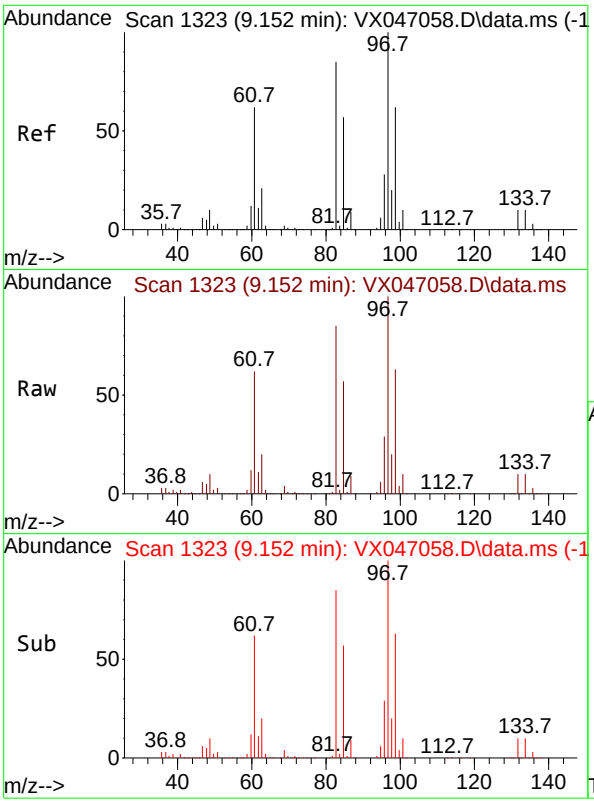


#54
cis-1,3-Dichloropropene
Concen: 55.475 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 75 Resp: 337057

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0
39	52.2	41.8	62.6

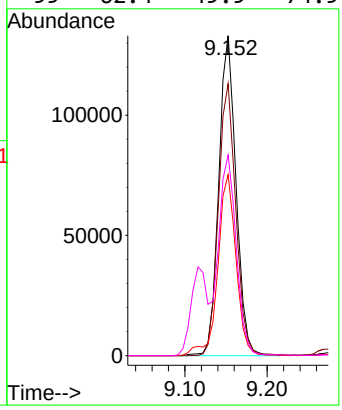




#55
1,1,2-Trichloroethane
Concen: 53.587 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 97 Resp: 19431

Ion	Ratio	Lower	Upper
97	100		
83	85.0	68.0	102.0
85	56.5	45.2	67.8
99	62.4	49.9	74.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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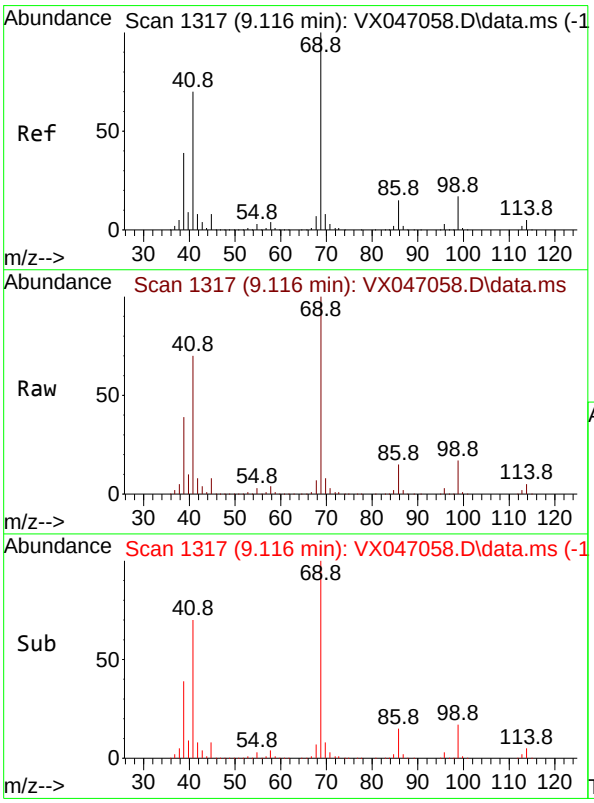
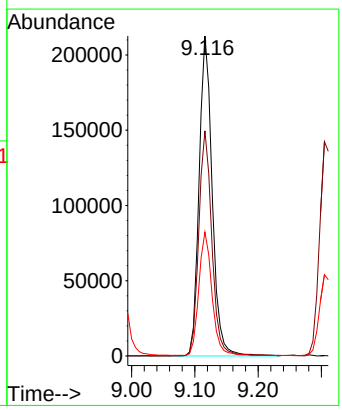
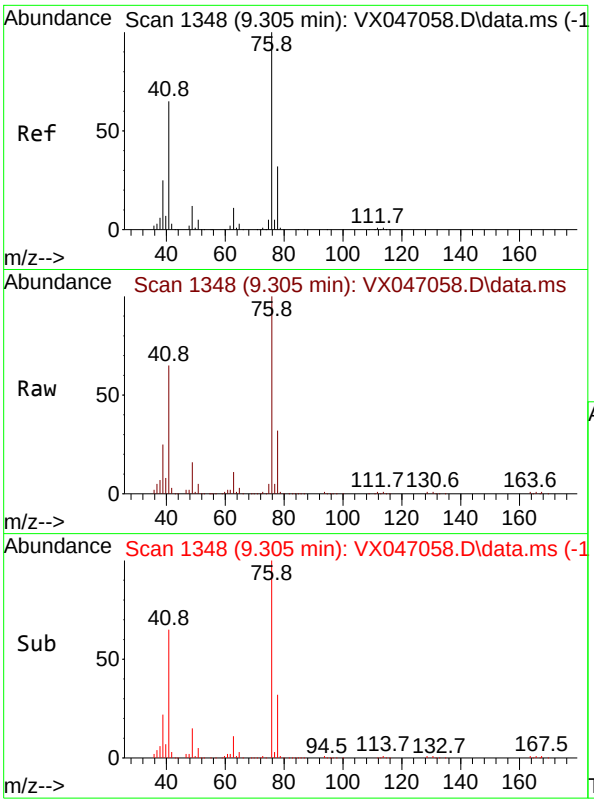


#56
Ethyl methacrylate
Concen: 57.281 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 69 Resp: 307494

Ion	Ratio	Lower	Upper
69	100		
41	70.1	56.1	84.1
39	38.9	31.1	46.7





#57
1,3-Dichloropropane
Concen: 53.491 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 76 Resp: 33710

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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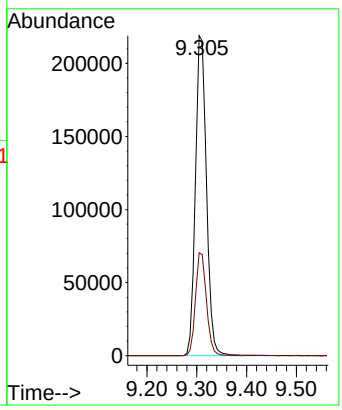
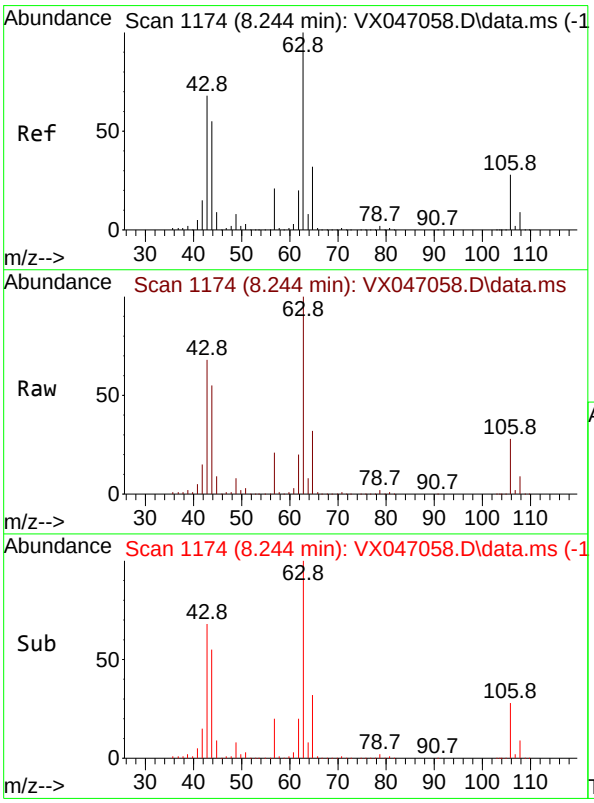
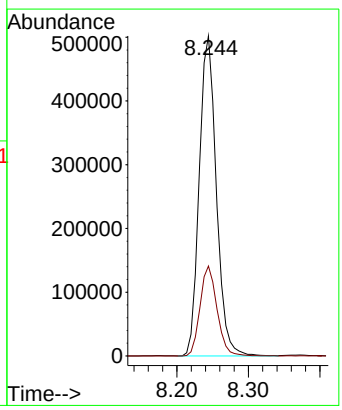


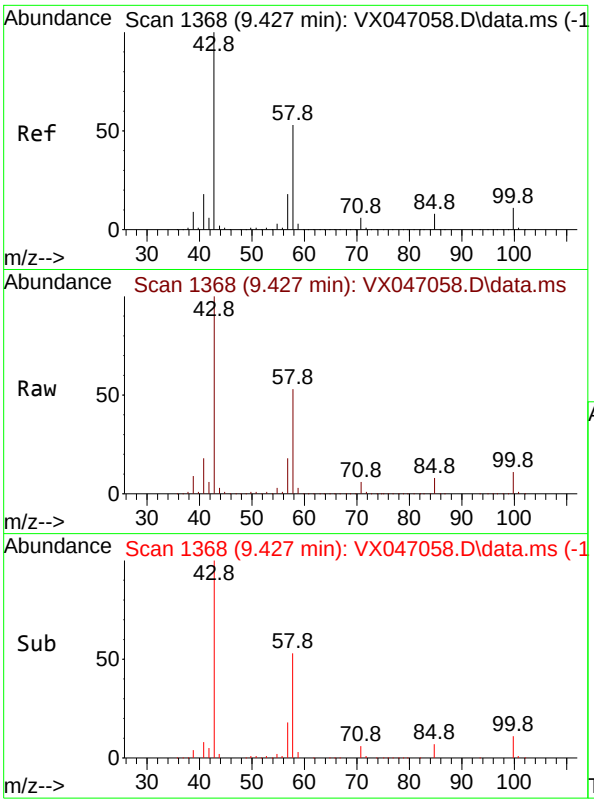


#58
2-Chloroethyl Vinyl ether
Concen: 278.917 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 63 Resp: 833190

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.2	33.4

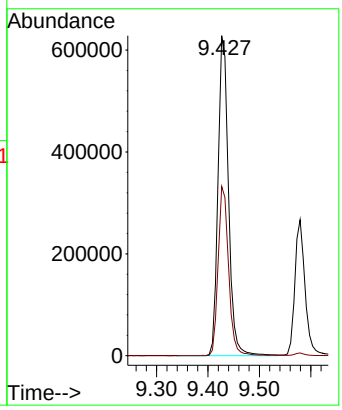




#59
2-Hexanone
Concen: 289.252 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 43 Resp: 88663

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.5	79.5



Instrument :
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ClientSampleId :
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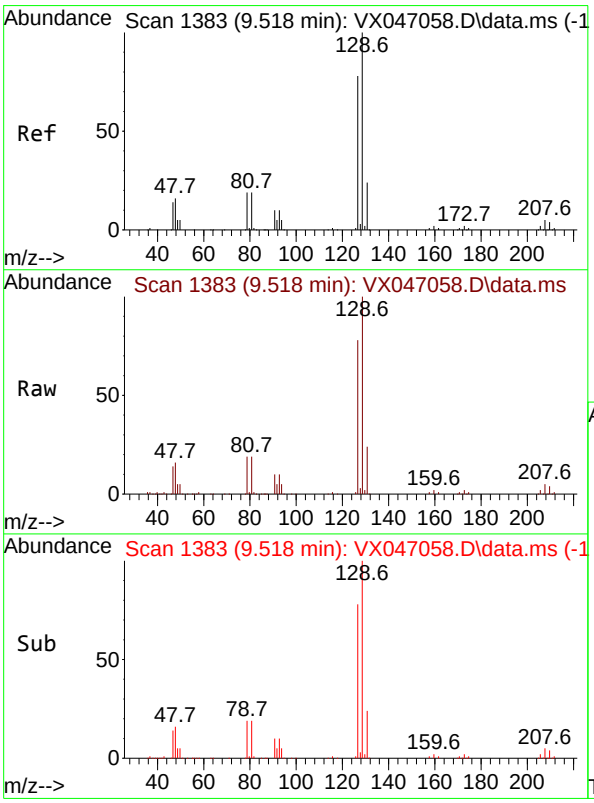
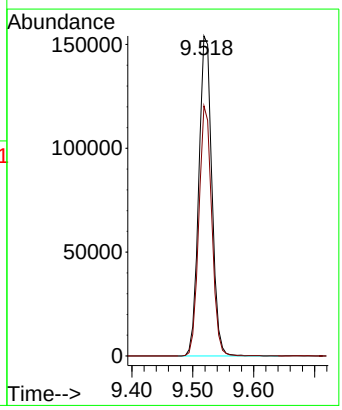
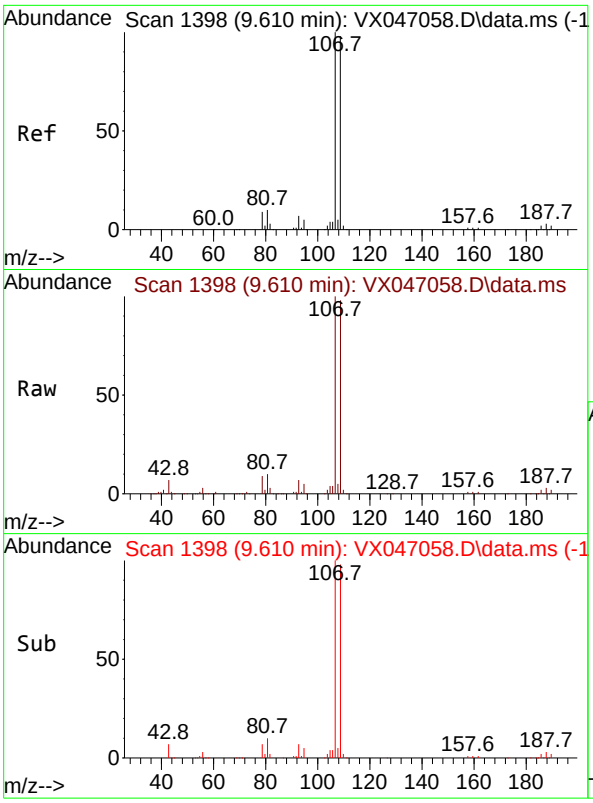


#60
Dibromochloromethane
Concen: 53.881 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:129 Resp: 229147

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.6	115.8

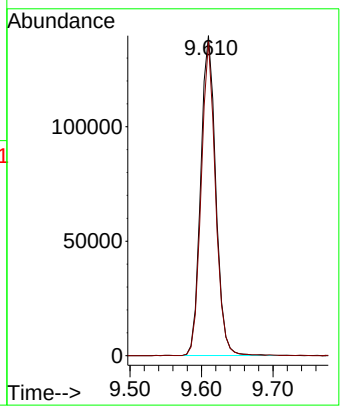




#61
1,2-Dibromoethane
Concen: 53.823 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:107 Resp: 20407

Ion	Ratio	Lower	Upper
107	100		
109	93.3	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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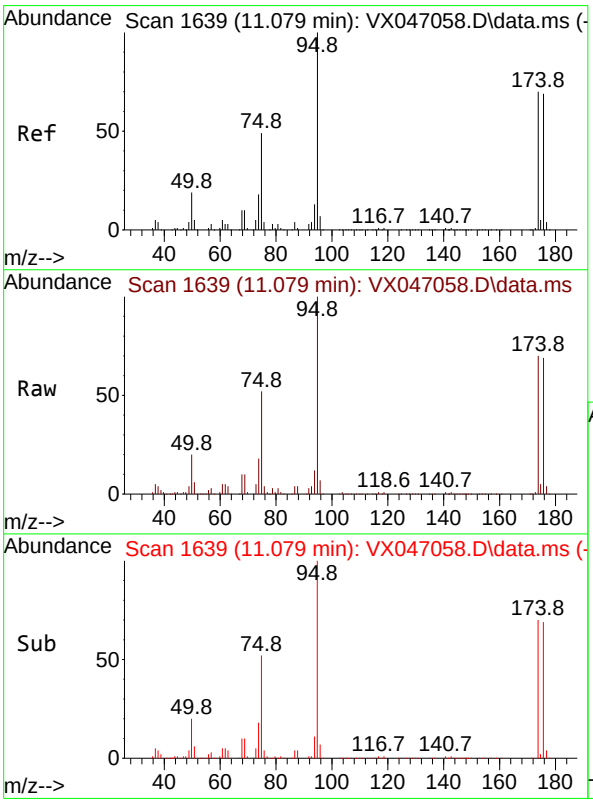
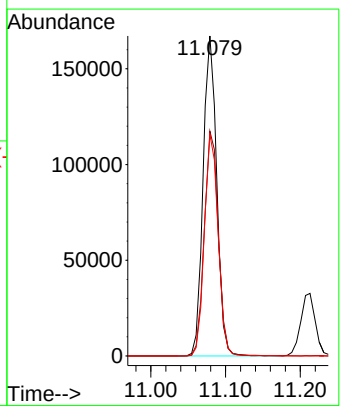
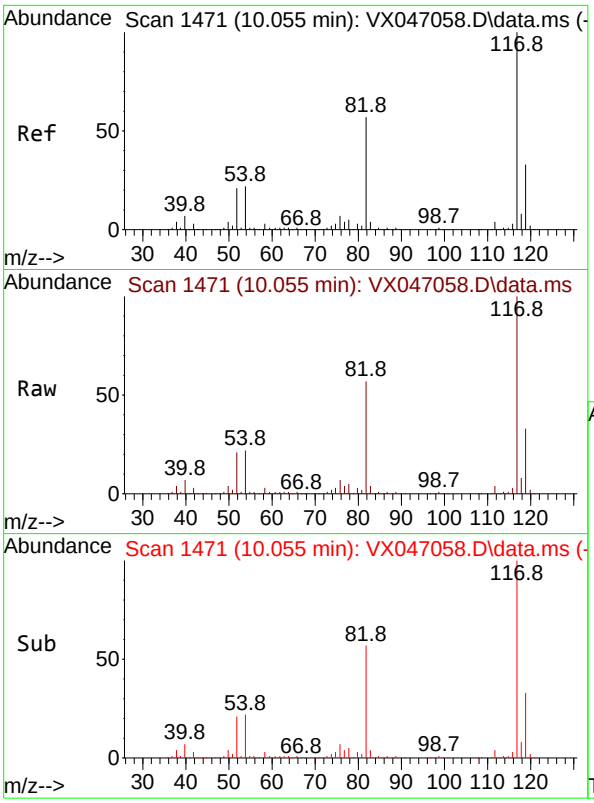


#62
4-Bromofluorobenzene
Concen: 47.473 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 95 Resp: 211198

Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	144.6
176	69.8	0.0	139.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:117 Resp: 46456

Ion	Ratio	Lower	Upper
117	100		
82	56.8	45.4	68.2
119	32.6	26.1	39.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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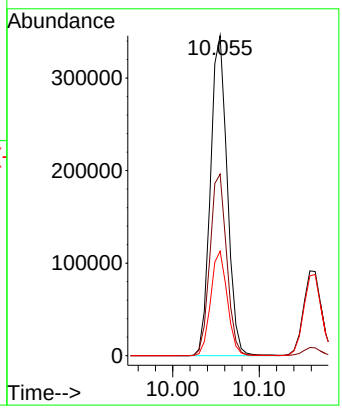
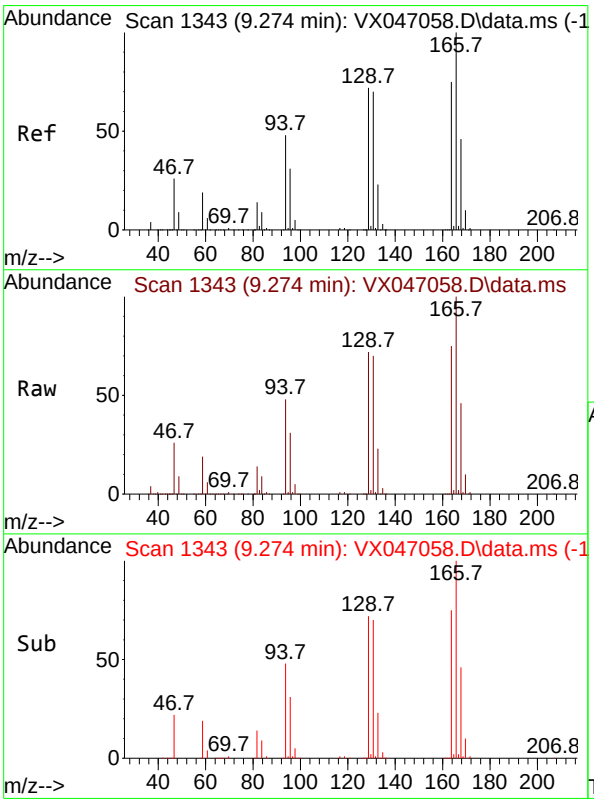
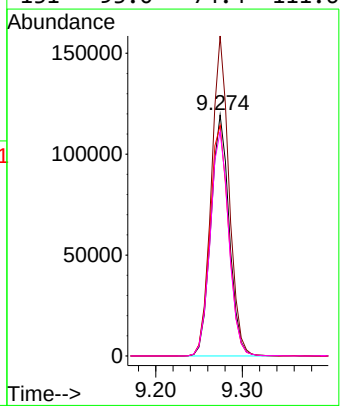


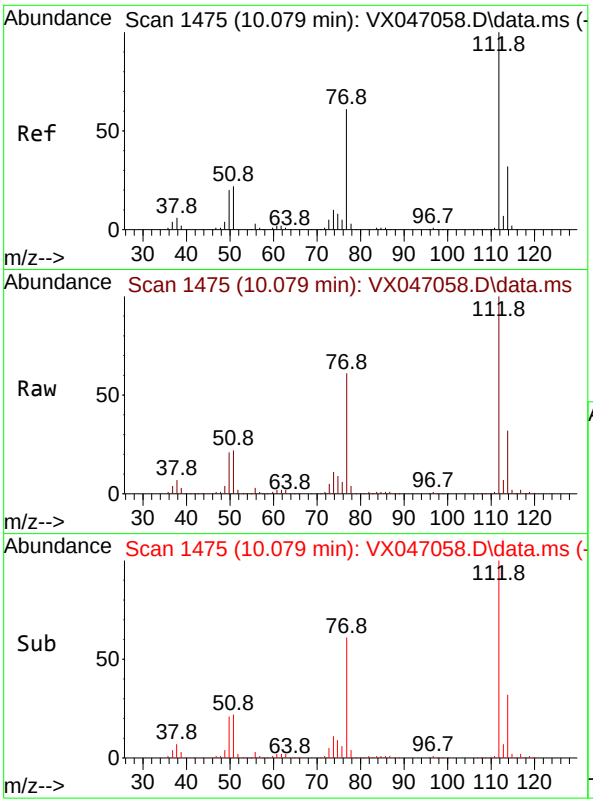


#64
Tetrachloroethene
Concen: 52.173 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:164 Resp: 174727

Ion	Ratio	Lower	Upper
164	100		
166	132.8	106.2	159.4
129	95.7	76.6	114.8
131	93.0	74.4	111.6

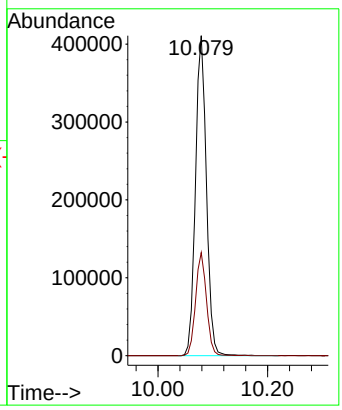




#65
Chlorobenzene
Concen: 52.530 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:112 Resp: 57169

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
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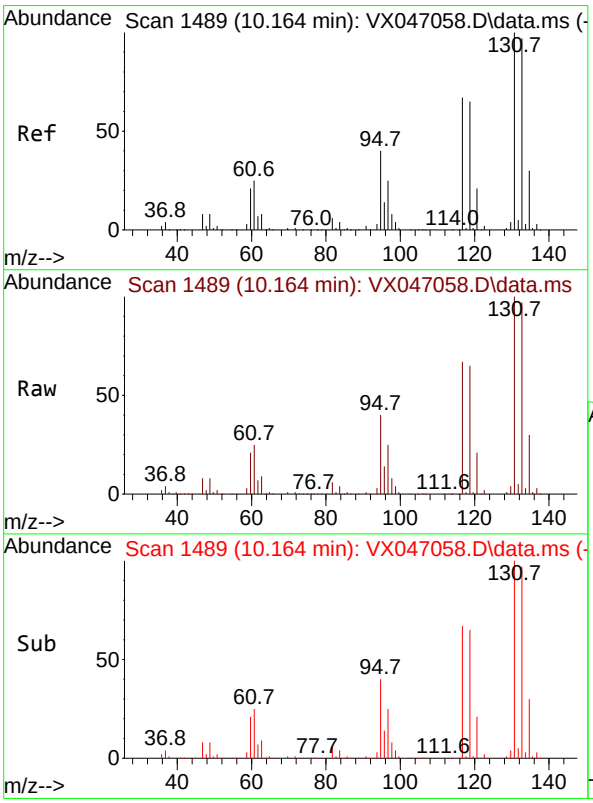
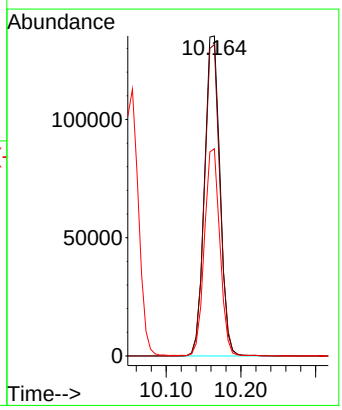
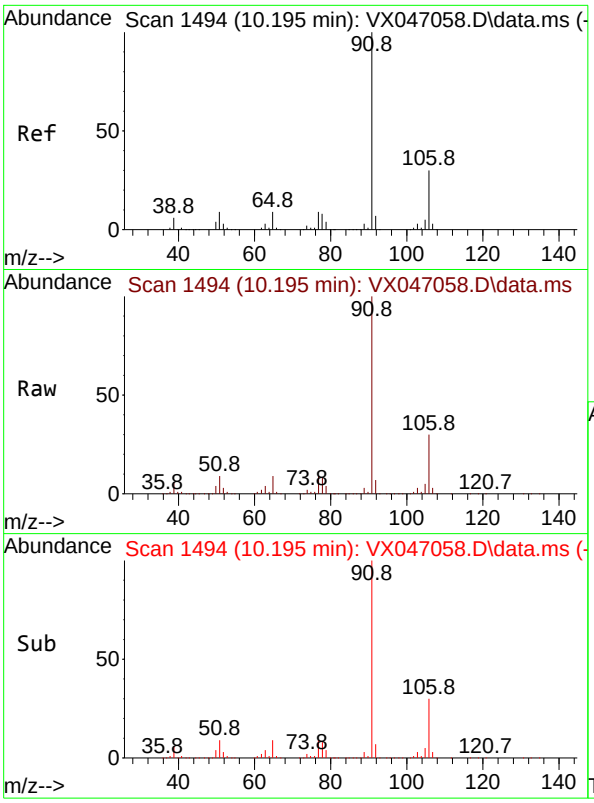


#66
1,1,1,2-Tetrachloroethane
Concen: 53.158 ug/l
RT: 10.164 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:131 Resp: 194777

Ion	Ratio	Lower	Upper
131	100		
133	96.9	48.4	145.3
119	64.7	32.4	97.0

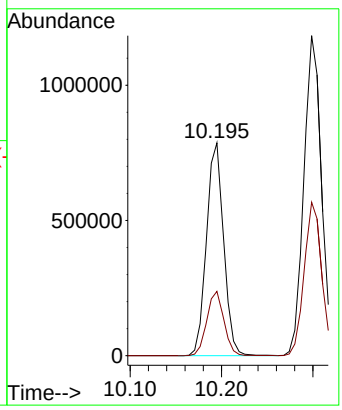




#67
Ethyl Benzene
Concen: 53.812 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 91 Resp: 102398

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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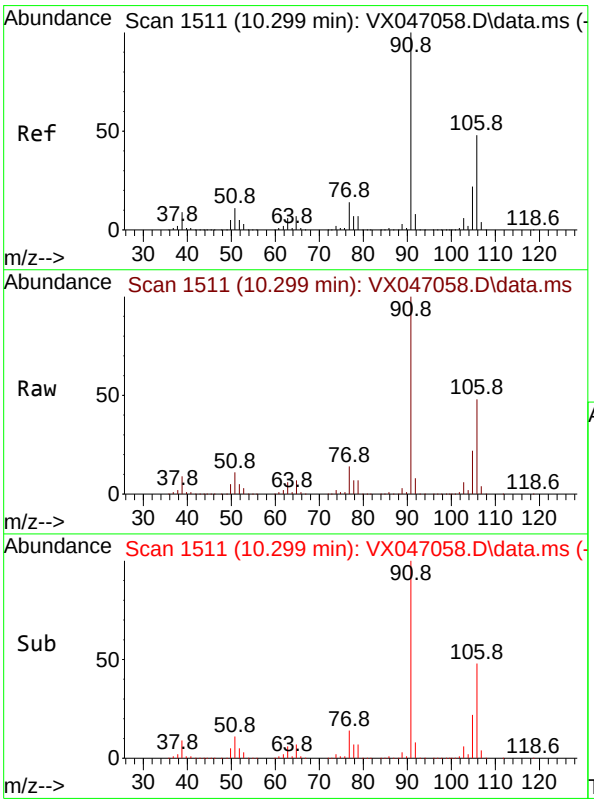
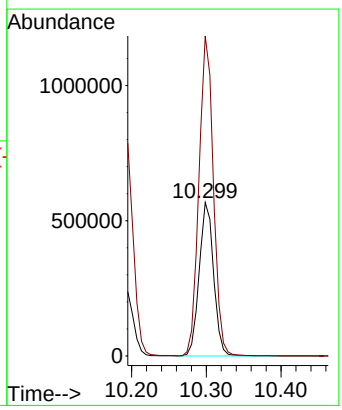
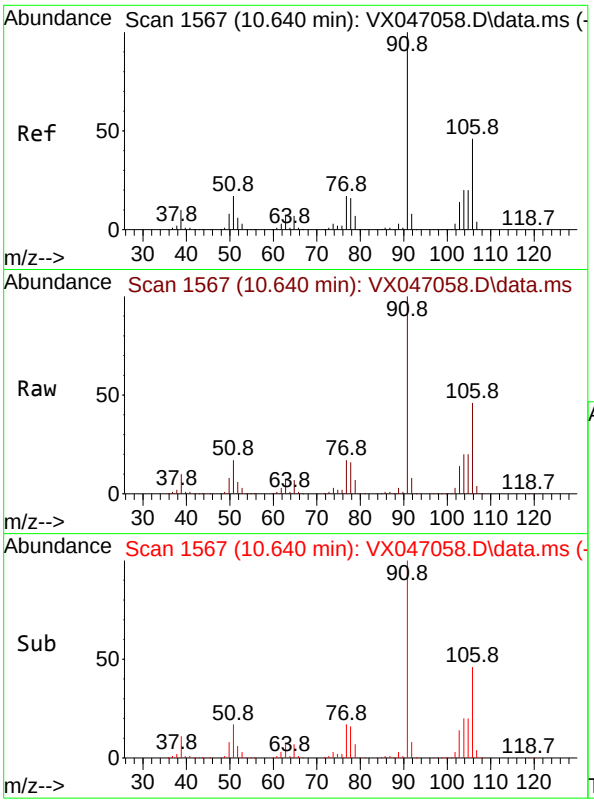


#68
m/p-Xylenes
Concen: 106.683 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:106 Resp: 759689

Ion	Ratio	Lower	Upper
106	100		
91	209.2	167.4	251.0

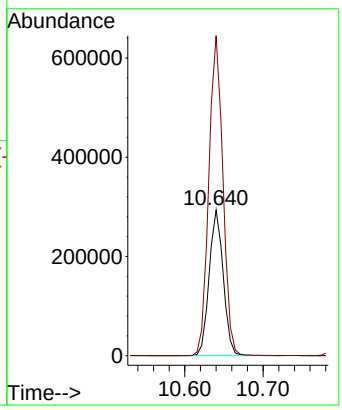




#69
o-Xylene
Concen: 53.834 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:106 Resp: 36468

Ion	Ratio	Lower	Upper
106	100		
91	220.7	110.3	331.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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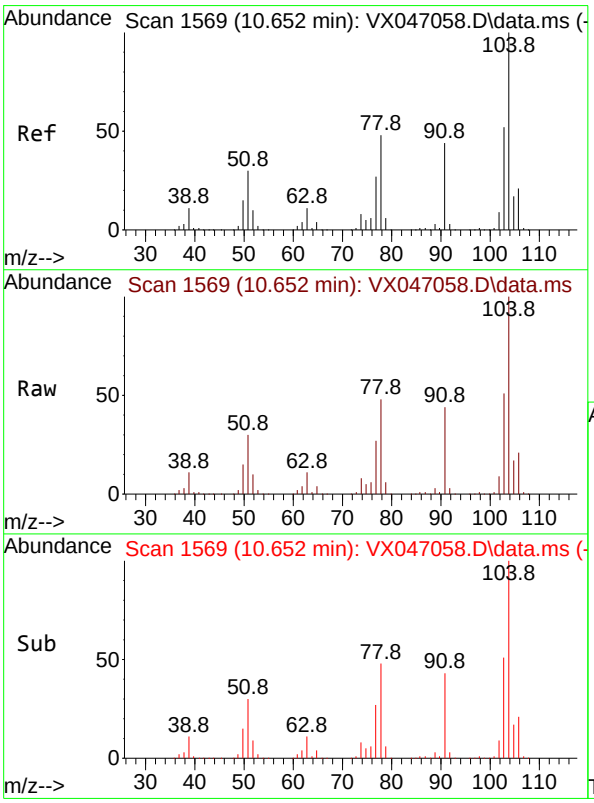
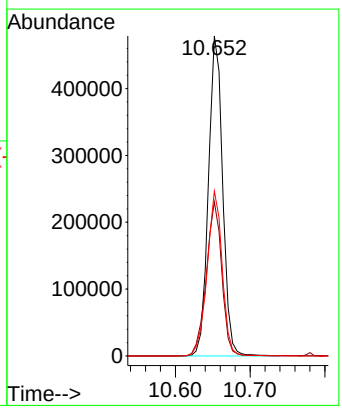
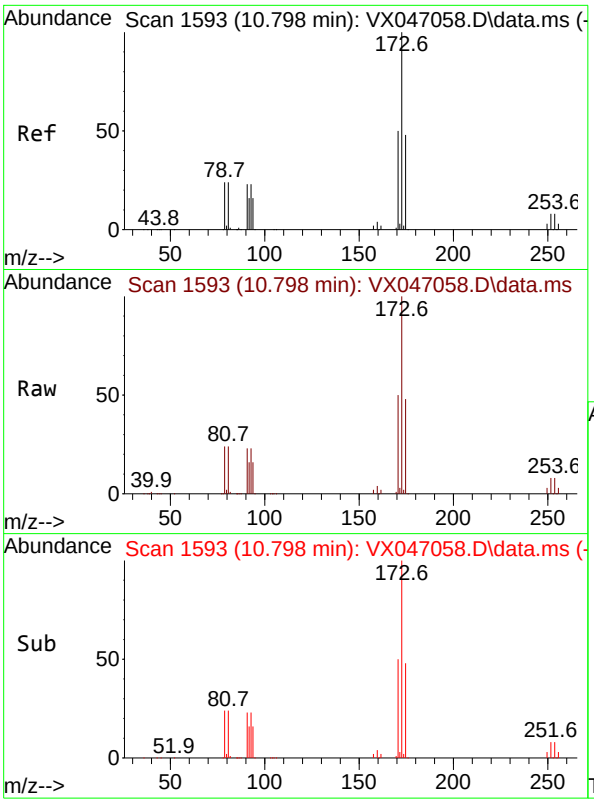


#70
Styrene
Concen: 54.447 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:104 Resp: 632474

Ion	Ratio	Lower	Upper
104	100		
78	52.5	42.0	63.0
103	54.7	43.8	65.6





#71
Bromoform
Concen: 54.228 ug/l
RT: 10.798 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:173 Resp: 15093

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.2	72.6
254	0.1	0.1	0.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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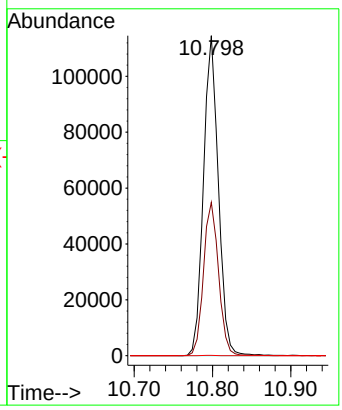
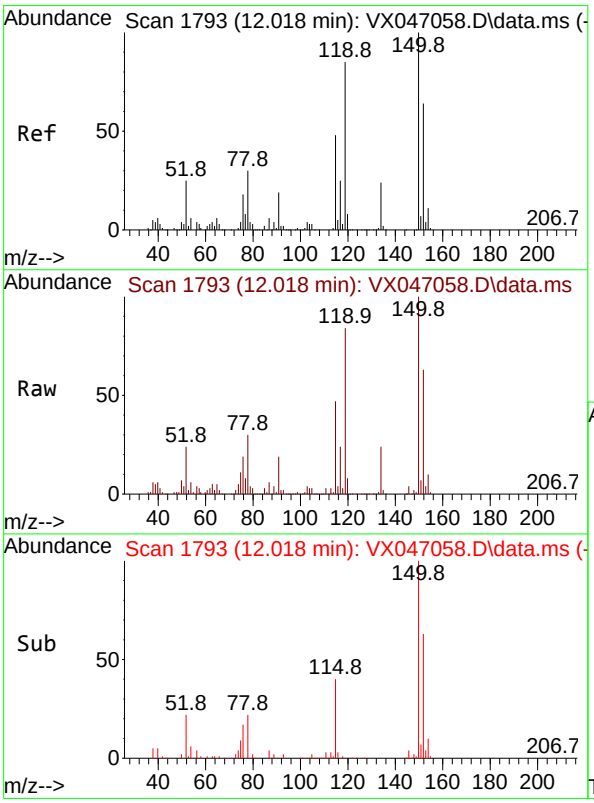
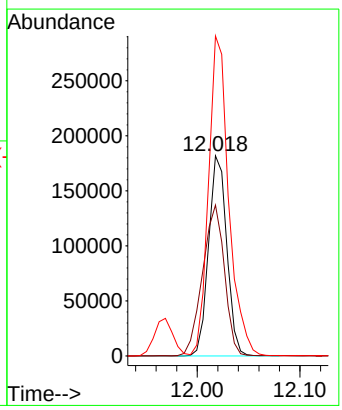


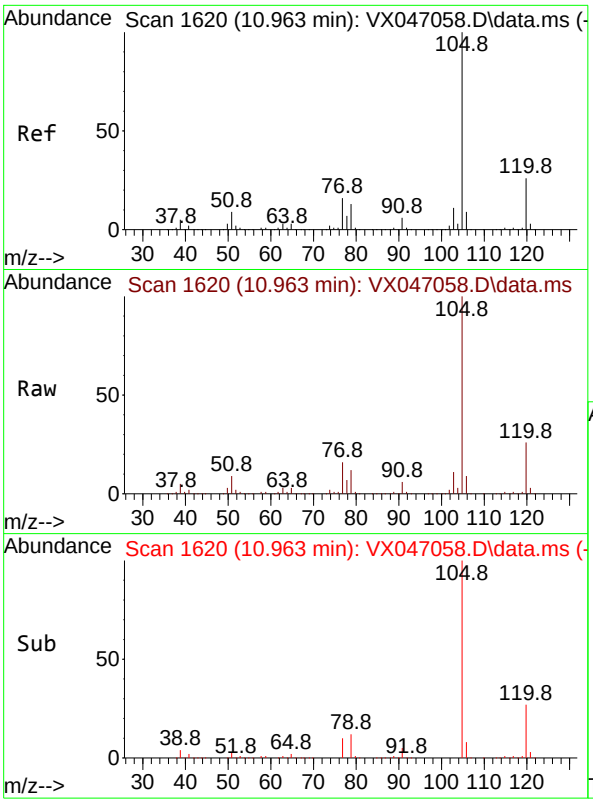


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:152 Resp: 223799

Ion	Ratio	Lower	Upper
152	100		
115	91.1	45.6	136.7
150	177.3	0.0	354.6

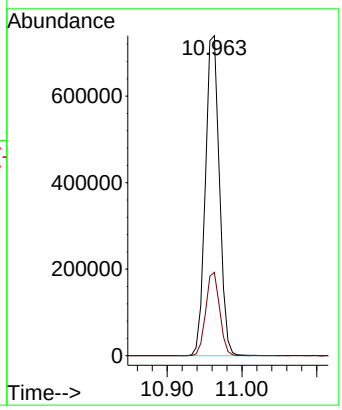




#73
Isopropylbenzene
Concen: 54.621 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:105 Resp: 96441

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.7



Instrument :
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ClientSampleId :
VSTDICCC050

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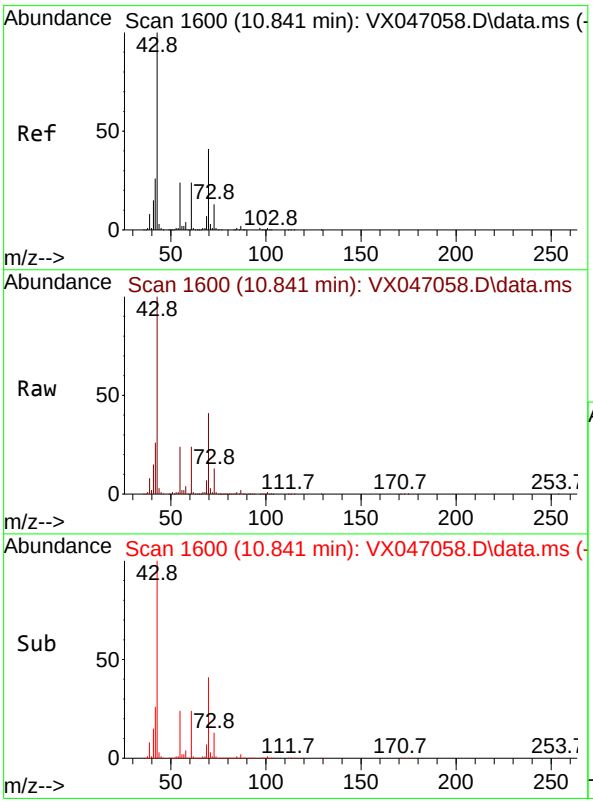
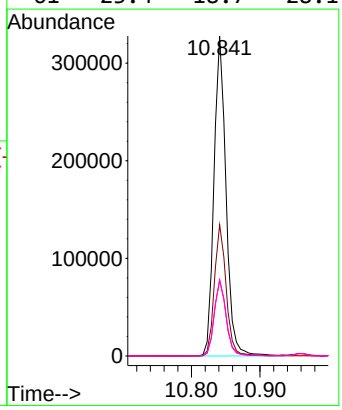
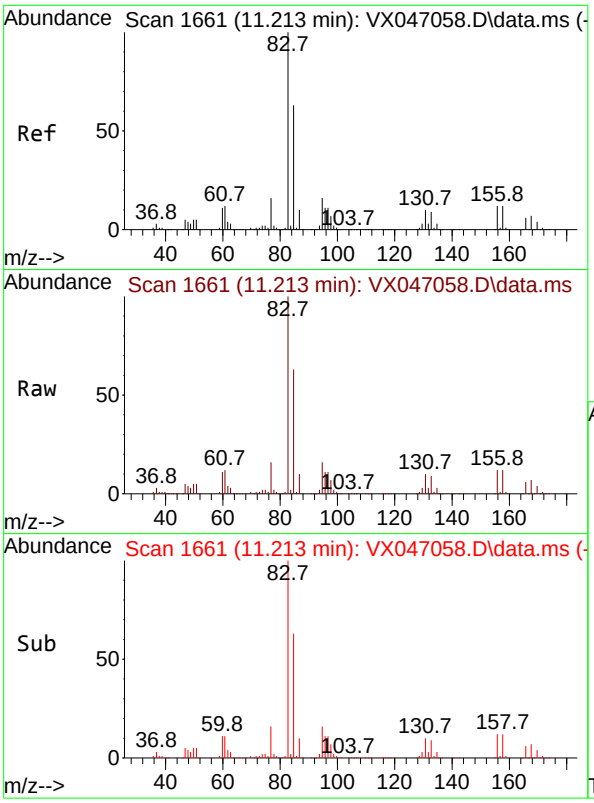


#74
N-amyl acetate
Concen: 56.697 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 43 Resp: 399297

Ion	Ratio	Lower	Upper
43	100		
70	40.4	32.3	48.5
55	23.6	18.9	28.3
61	23.4	18.7	28.1

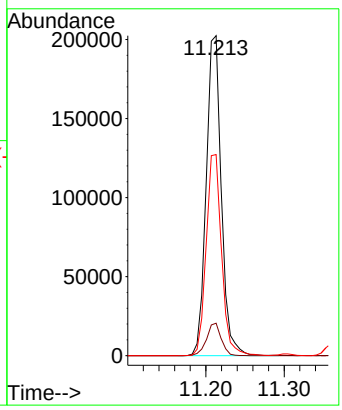




#75
1,1,2,2-Tetrachloroethane
Concen: 53.670 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 83 Resp: 27068

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.1	32.0	96.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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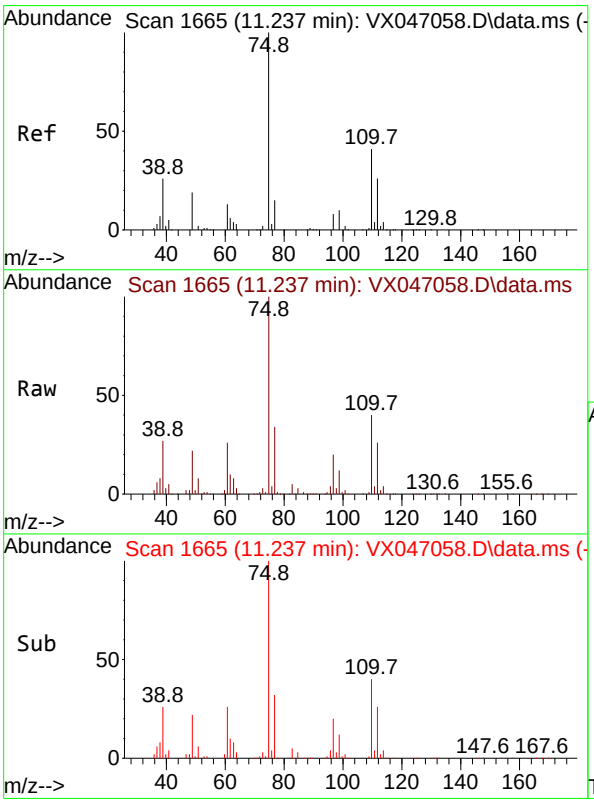
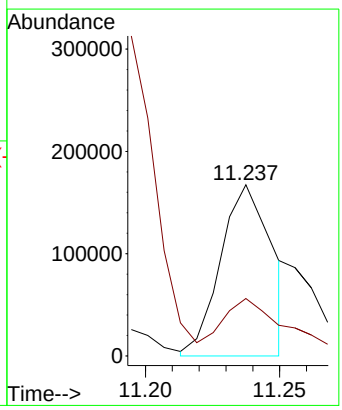
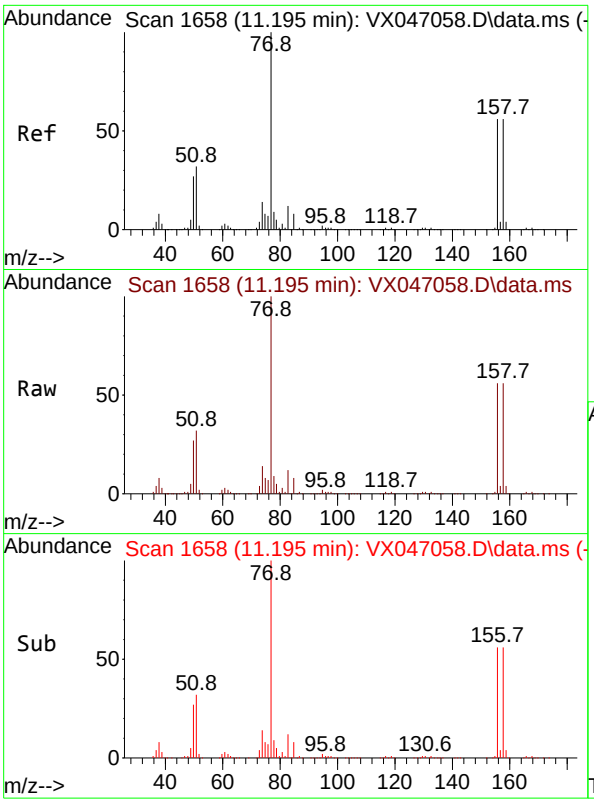


#76
1,2,3-Trichloropropane
Concen: 53.523 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 75 Resp: 221713

Ion	Ratio	Lower	Upper
75	100		
77	43.3	21.6	65.0

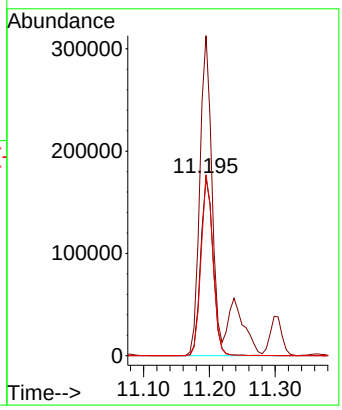




#77
Bromobenzene
Concen: 53.727 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:156 Resp: 22753

Ion	Ratio	Lower	Upper
156	100		
77	174.6	87.3	261.9
158	97.7	48.9	146.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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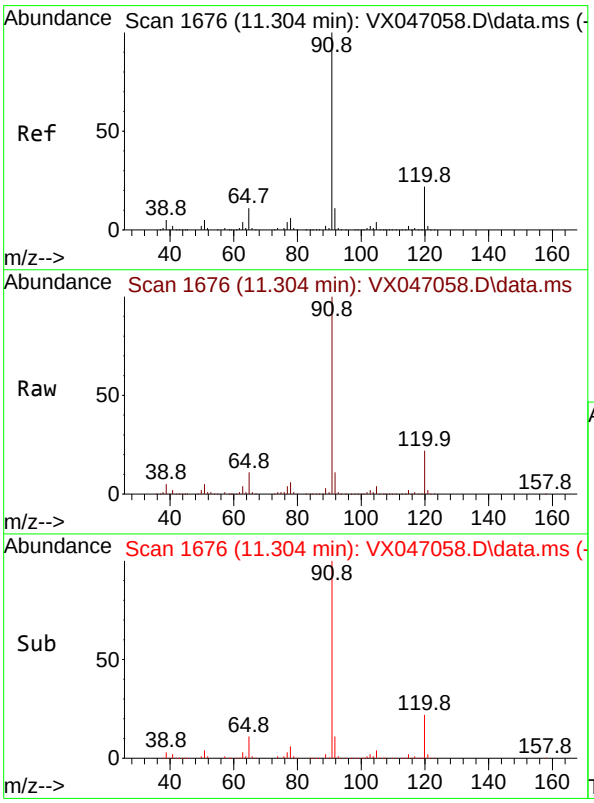
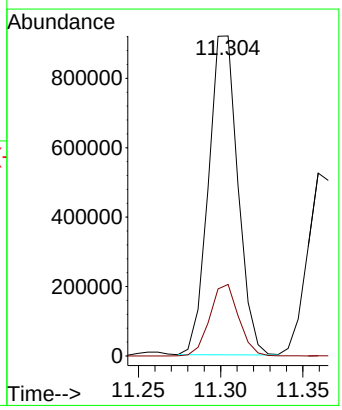
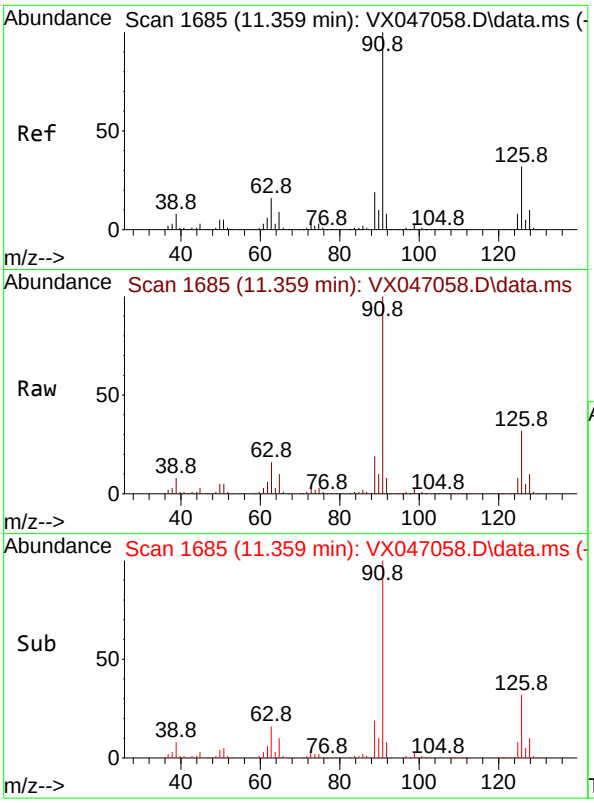


#78
n-propylbenzene
Concen: 54.290 ug/l
RT: 11.304 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 91 Resp: 1145472

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0





#79
2-Chlorotoluene
Concen: 53.739 ug/l
RT: 11.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 91 Resp: 67777

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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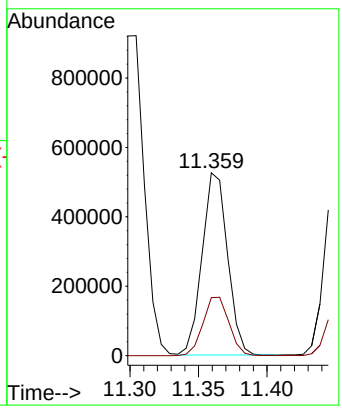
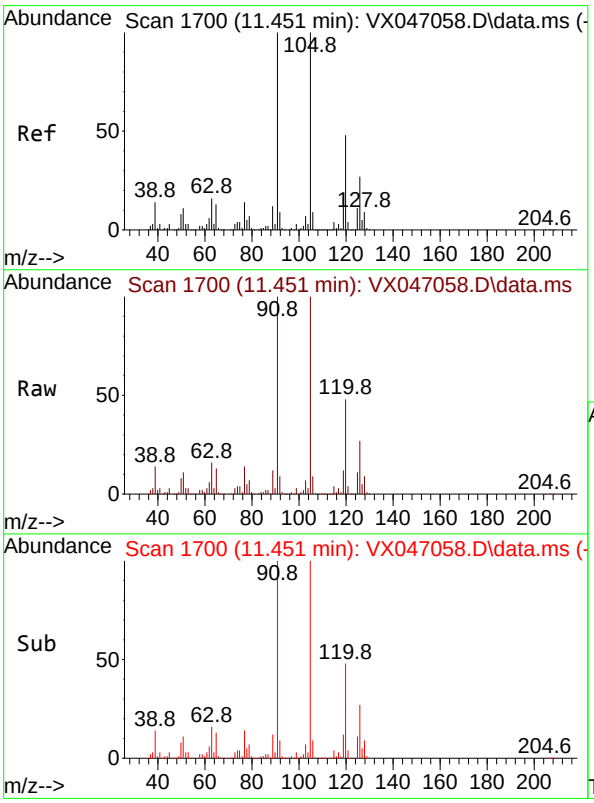
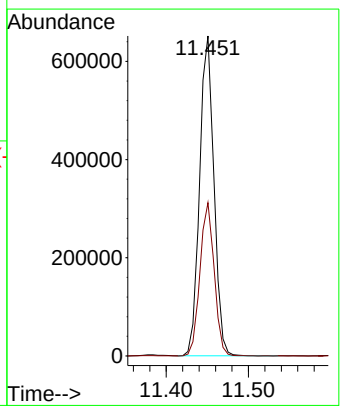


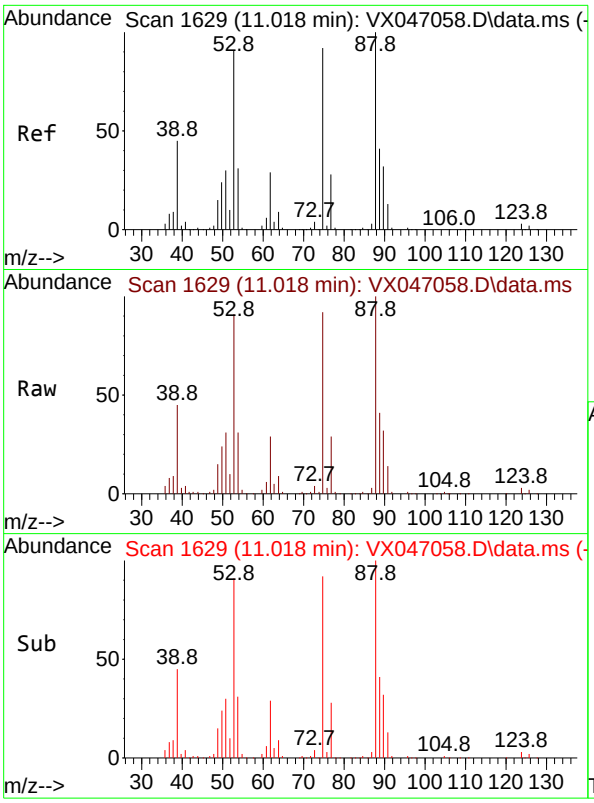


#80
1,3,5-Trimethylbenzene
Concen: 54.057 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:105 Resp: 788518

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.8	71.5





#81
trans-1,4-Dichloro-2-butene
Concen: 54.445 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 75 Resp: 8753

Ion	Ratio	Lower	Upper
75	100		
53	105.3	84.2	126.4
89	45.0	36.0	54.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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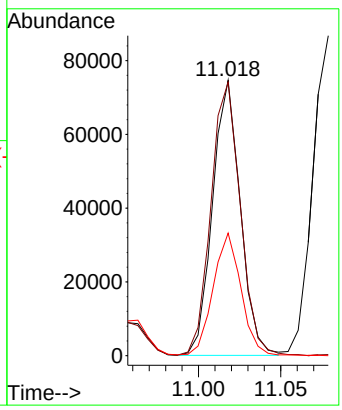
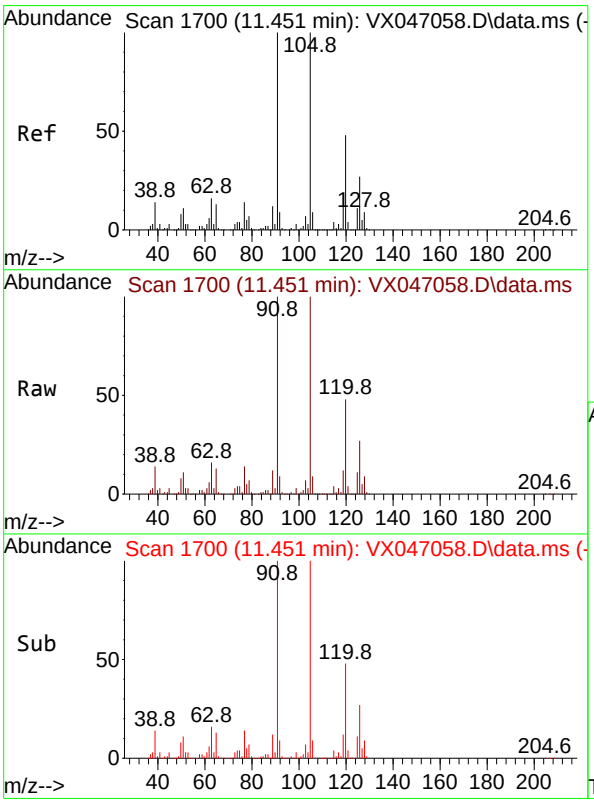
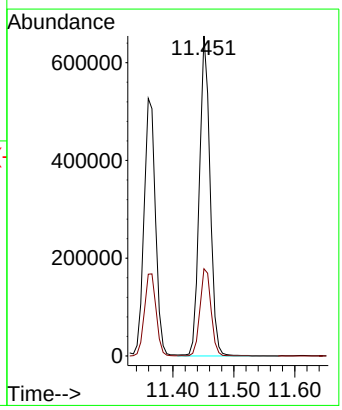


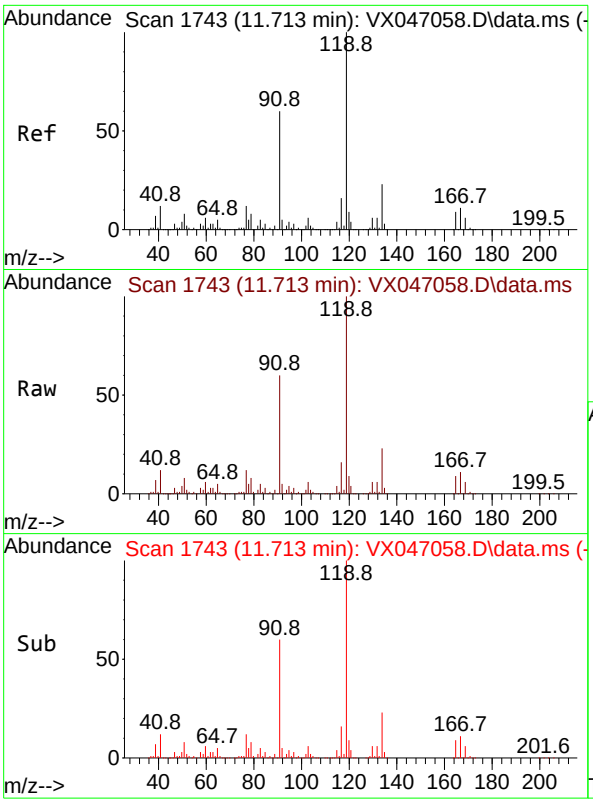


#82
4-Chlorotoluene
Concen: 54.249 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 91 Resp: 798628

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.1	42.3

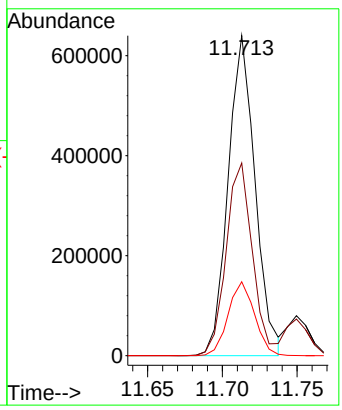




#83
tert-Butylbenzene
Concen: 54.819 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:119 Resp: 80259

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	22.7	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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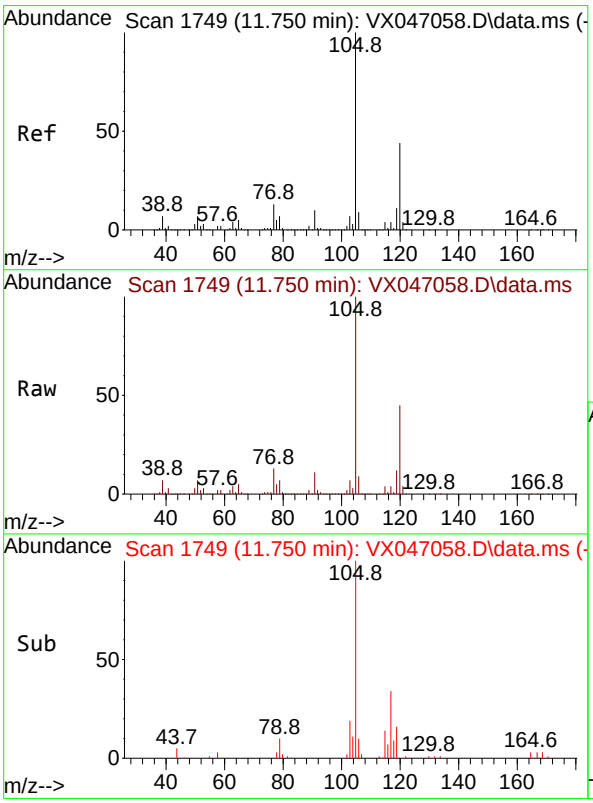
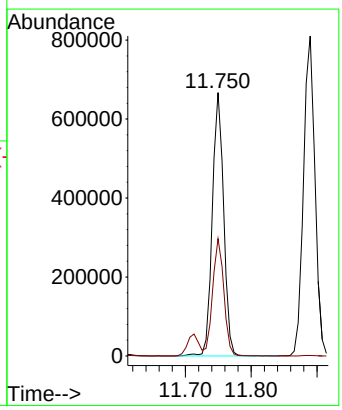
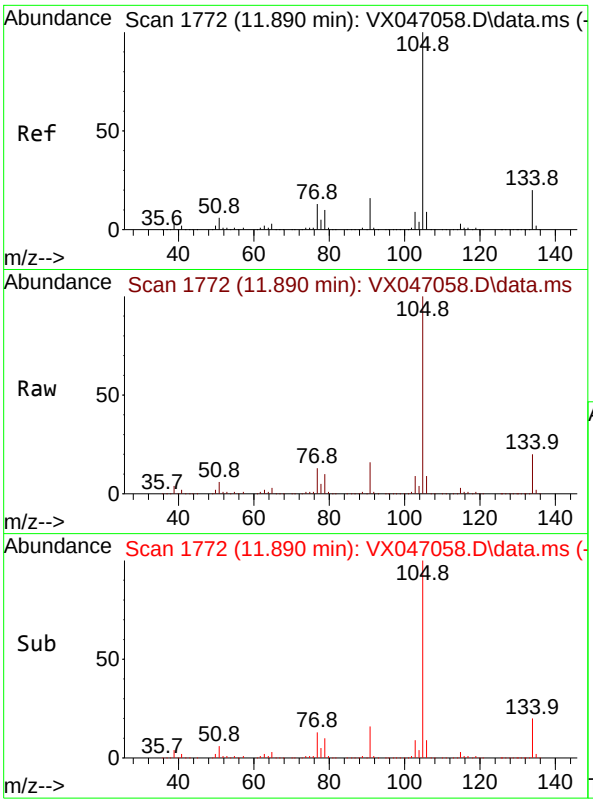


#84
1,2,4-Trimethylbenzene
Concen: 55.018 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:105 Resp: 800479

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.0	66.0





#85
sec-Butylbenzene
Concen: 53.809 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:105 Resp: 98432

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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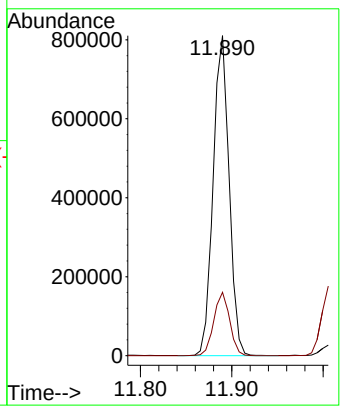
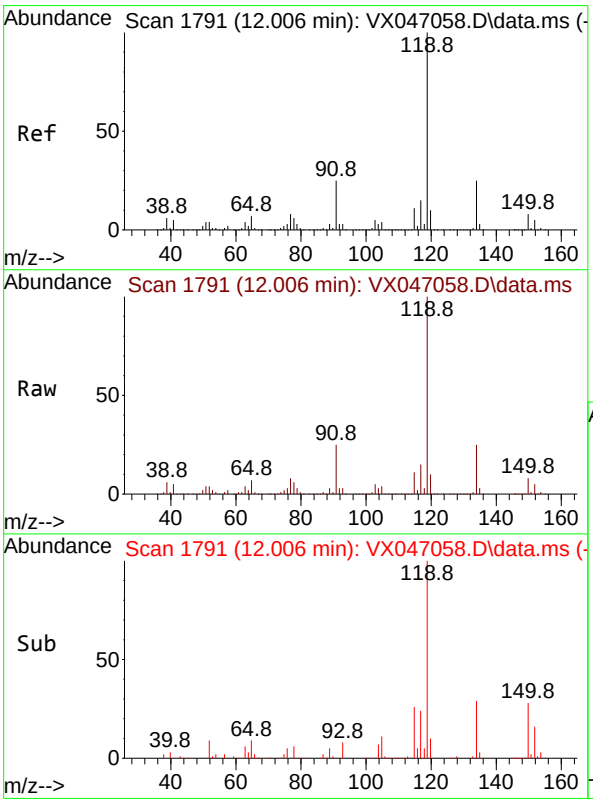
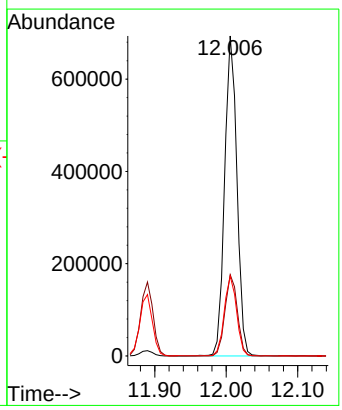


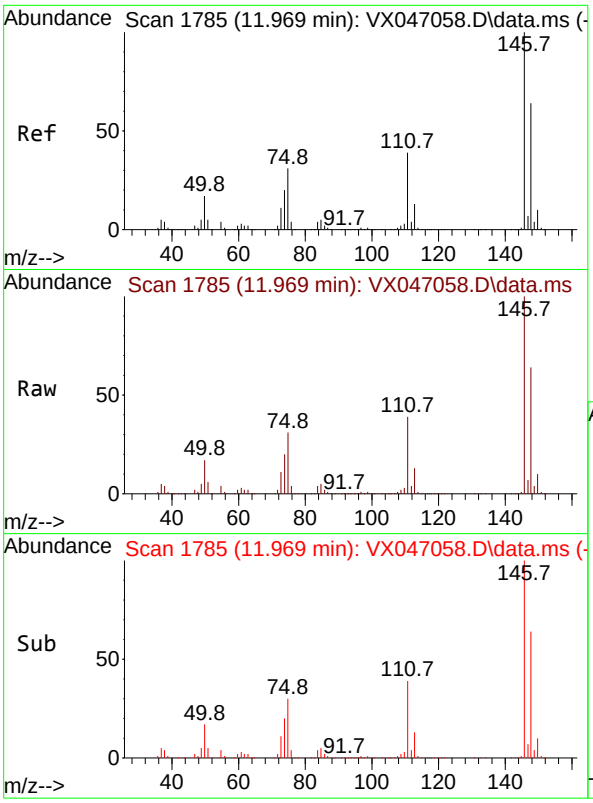


#86
p-Isopropyltoluene
Concen: 54.651 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:119 Resp: 829044

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.4
91	24.9	12.4	37.4

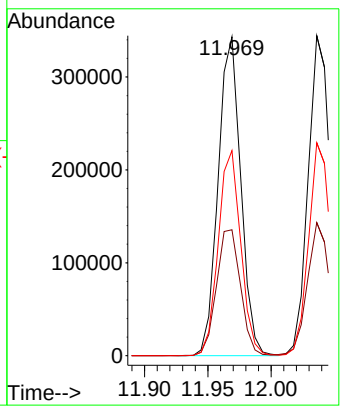




#87
1,3-Dichlorobenzene
Concen: 53.079 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:146 Resp: 42710

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.0	63.0
148	64.0	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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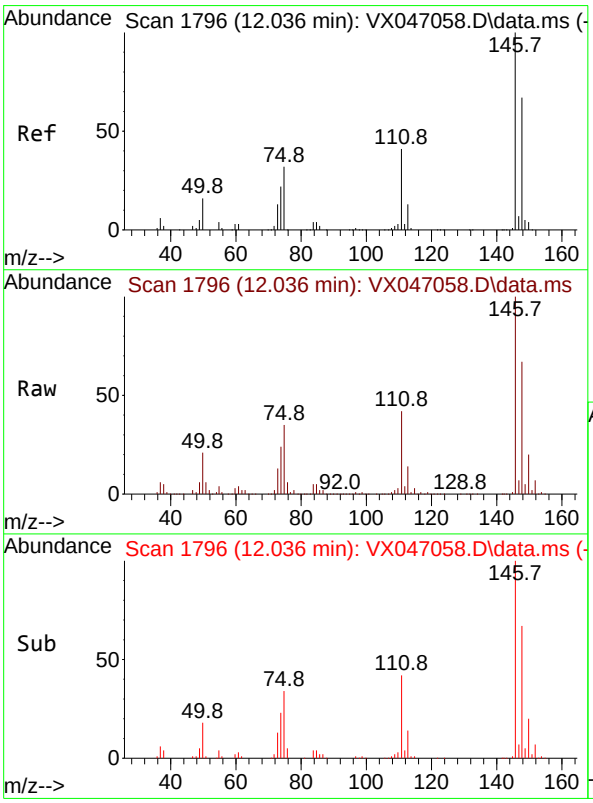
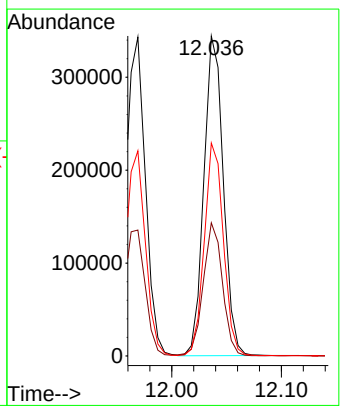
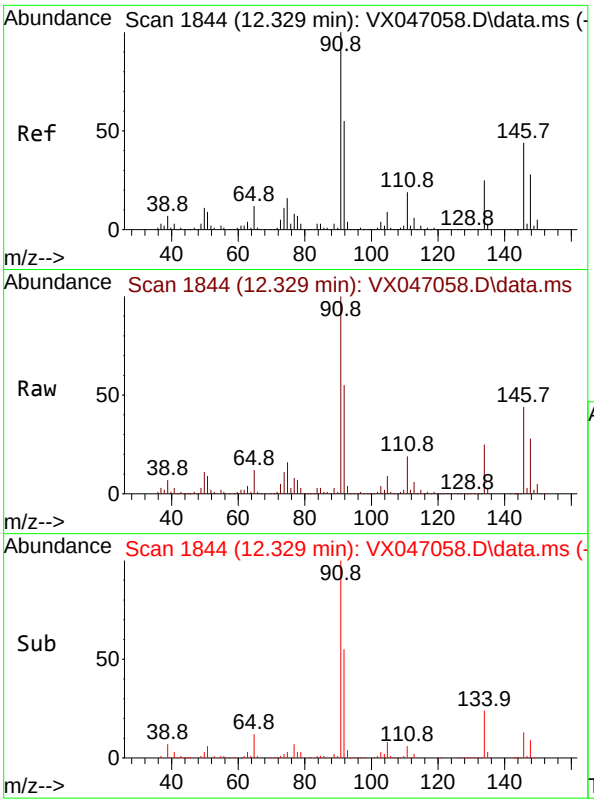


#88
1,4-Dichlorobenzene
Concen: 51.978 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:146 Resp: 423743

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.6	61.9
148	65.9	33.0	98.9

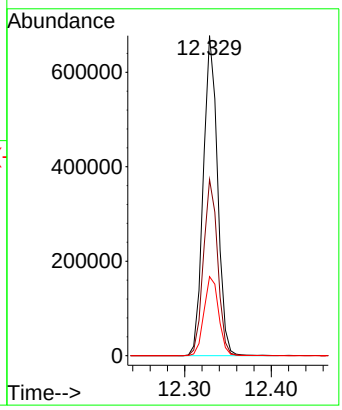




#89
n-Butylbenzene
Concen: 54.372 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 91 Resp: 77350

Ion	Ratio	Lower	Upper
91	100		
92	55.0	27.5	82.5
134	25.5	12.8	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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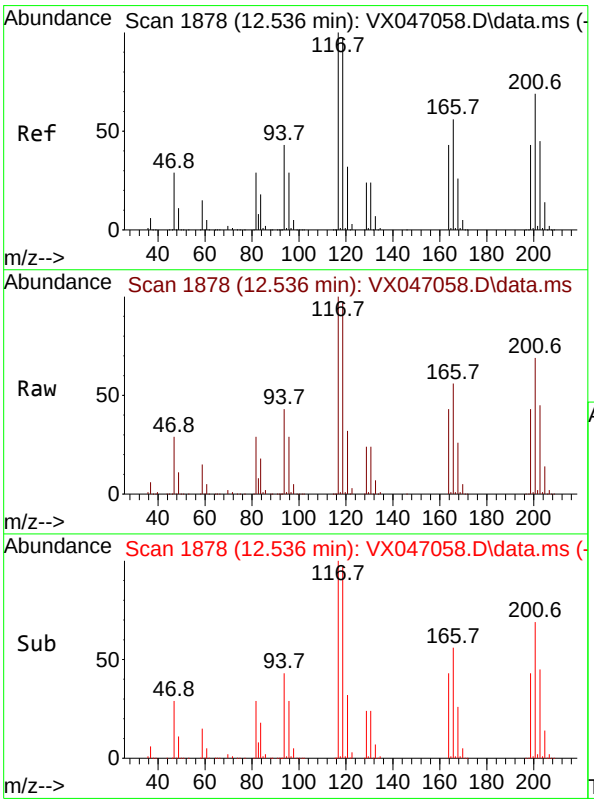
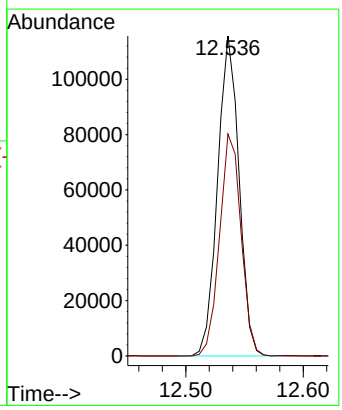
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

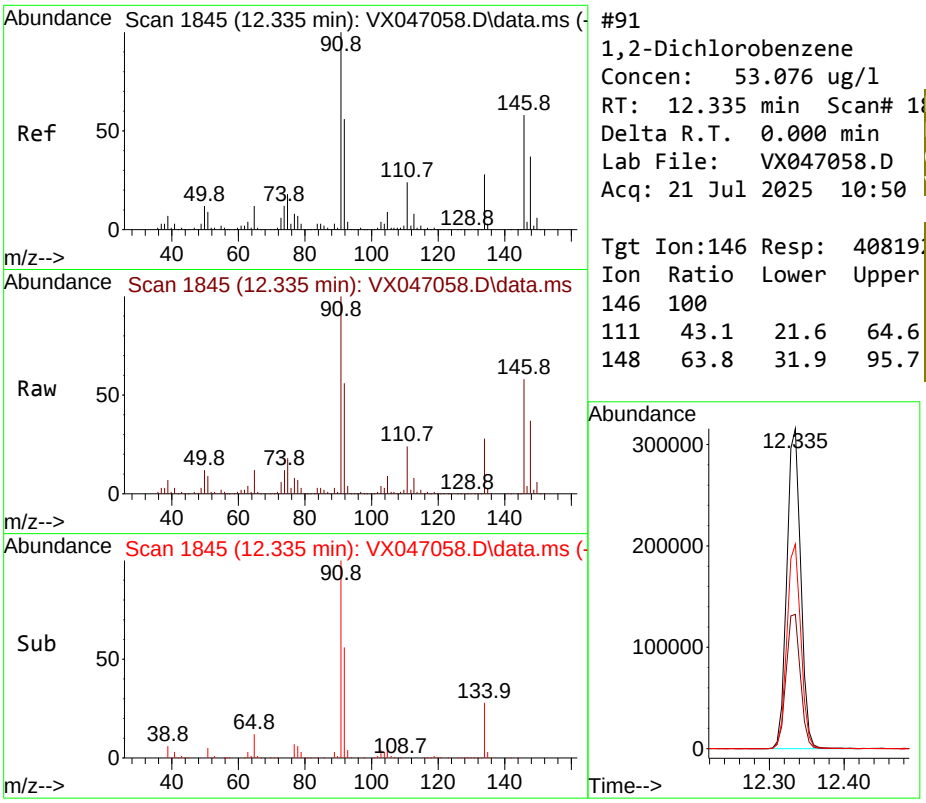


#90
Hexachloroethane
Concen: 54.011 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:117 Resp: 146577

Ion	Ratio	Lower	Upper
117	100		
201	69.7	34.8	104.5





#91
1,2-Dichlorobenzene
Concen: 53.076 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

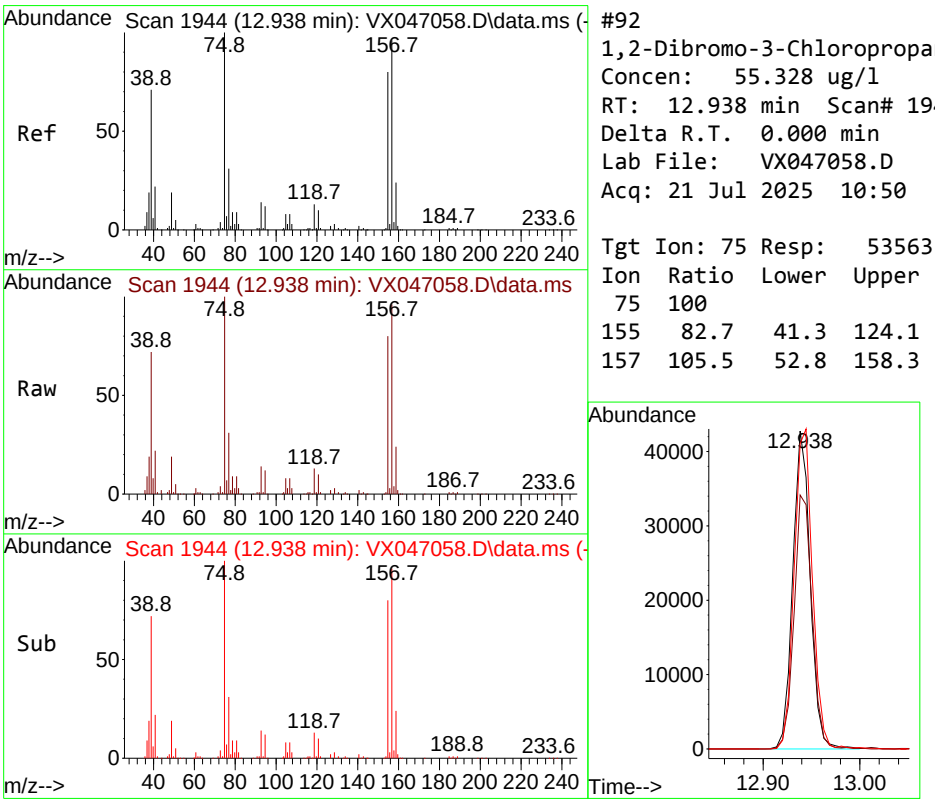
Tgt Ion:146 Resp: 40819

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.6	64.6
148	63.8	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

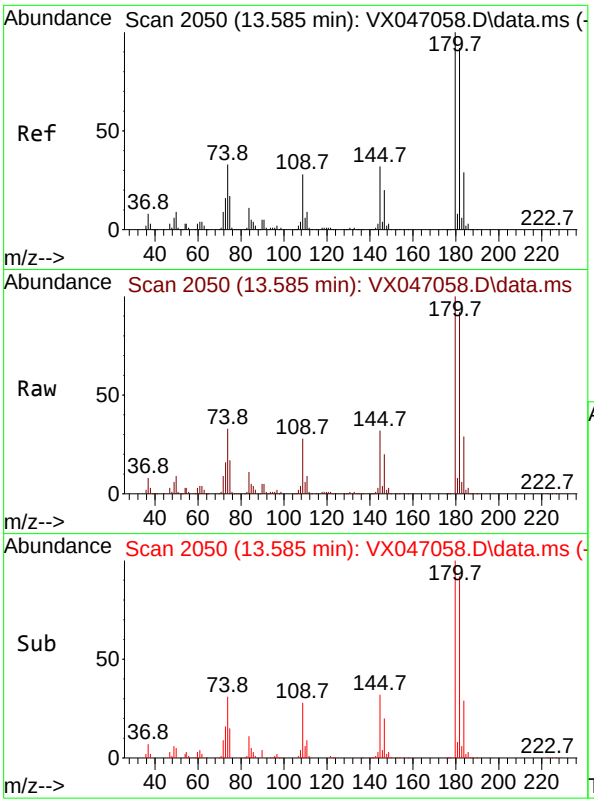
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 55.328 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 75 Resp: 53563

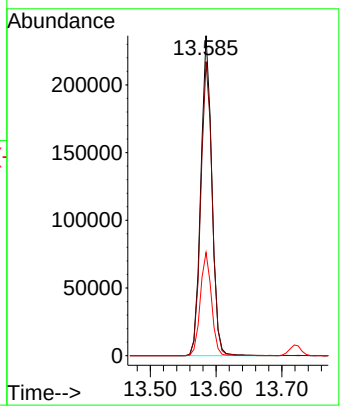
Ion	Ratio	Lower	Upper
75	100		
155	82.7	41.3	124.1
157	105.5	52.8	158.3



#93
1,2,4-Trichlorobenzene
Concen: 53.926 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:180 Resp: 27401

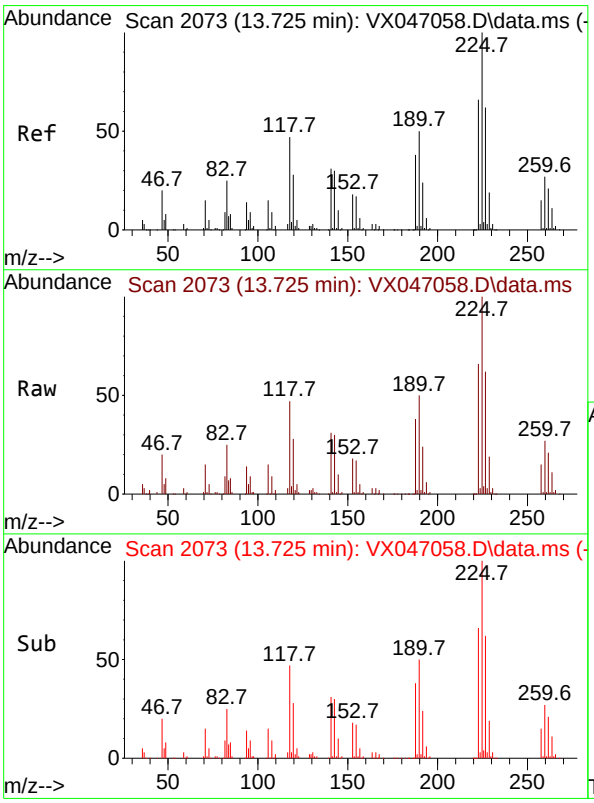
Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.3	141.8
145	32.7	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

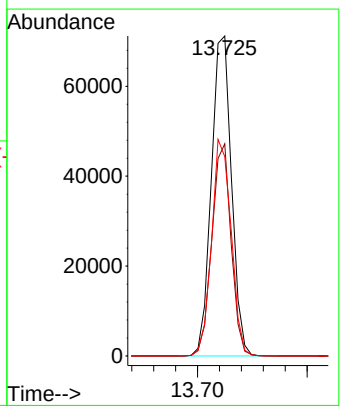
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

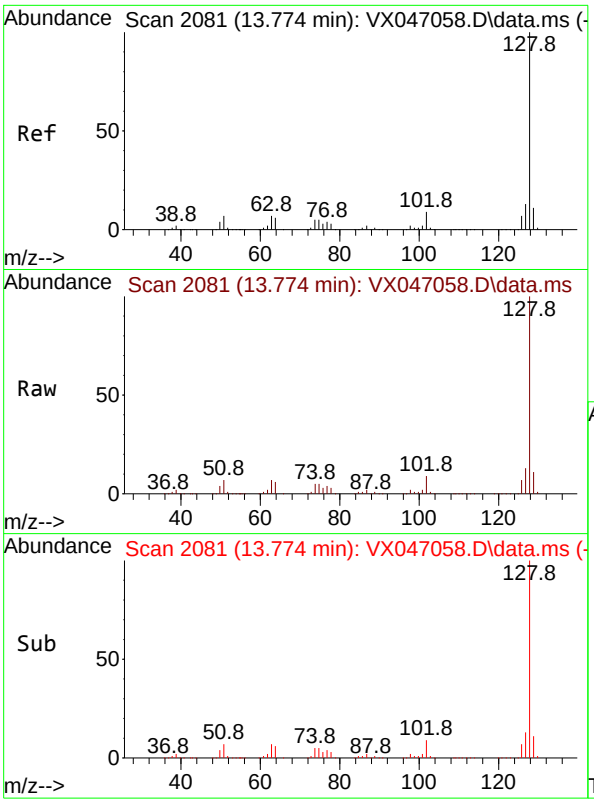


#94
Hexachlorobutadiene
Concen: 52.553 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:225 Resp: 90816

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.6	95.0
227	65.7	32.9	98.6

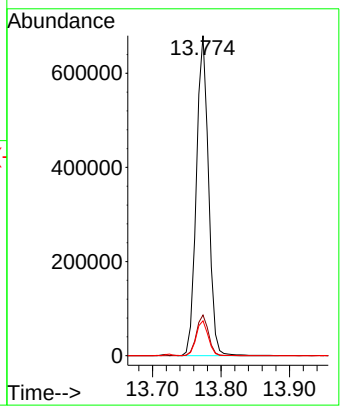




#95
Naphthalene
Concen: 56.390 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:128 Resp: 83999

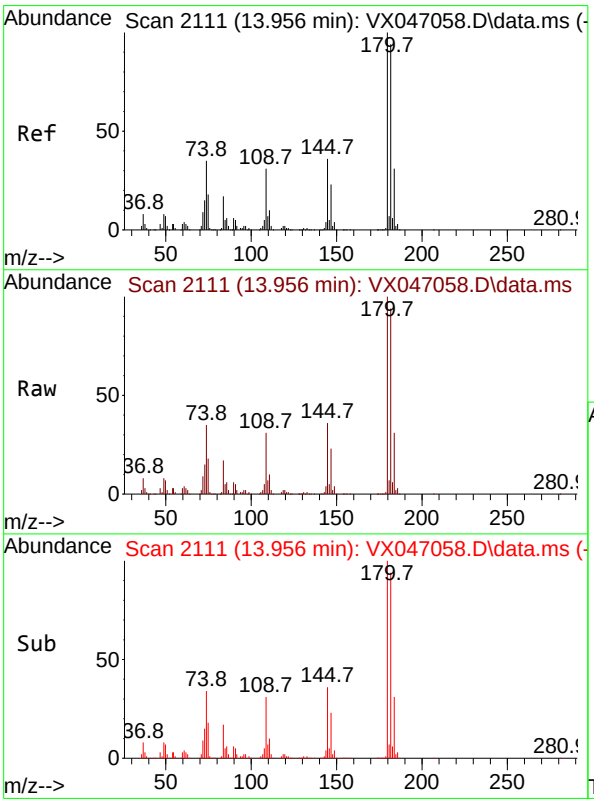
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.8	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

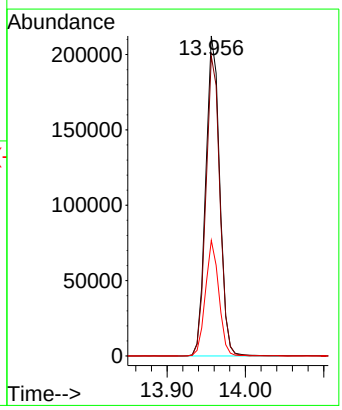
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025



#96
1,2,3-Trichlorobenzene
Concen: 53.580 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:180 Resp: 262282

Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.9	140.6
145	34.7	17.3	52.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047059.D
Acq On : 21 Jul 2025 11:11
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 03:39:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	293211	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	502636	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	443709	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	210644	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	358189	98.067	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 196.140%#			
35) Dibromofluoromethane	5.397	113	304077	97.981	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 195.960%#			
50) Toluene-d8	8.653	98	951189	94.642	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 189.280%#			
62) 4-Bromofluorobenzene	11.079	95	418790	96.692	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 193.380%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	422702	108.536	ug/l	98
3) Chloromethane	1.307	50	390958	101.483	ug/l	99
4) Vinyl Chloride	1.386	62	420036	101.428	ug/l	98
5) Bromomethane	1.611	94	207177	92.097	ug/l	96
6) Chloroethane	1.697	64	248151	91.235	ug/l	98
7) Trichlorofluoromethane	1.898	101	618083	100.093	ug/l	99
8) Diethyl Ether	2.148	74	214962	98.730	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.343	101	367465	98.771	ug/l	100
10) Methyl Iodide	2.465	142	421251	111.100	ug/l	99
11) Tert butyl alcohol	2.965	59	207609	496.373	ug/l	98
12) 1,1-Dichloroethene	2.337	96	365672	99.237	ug/l	96
13) Acrolein	2.245	56	390297	496.280	ug/l	99
14) Allyl chloride	2.678	41	668038	100.294	ug/l	99
15) Acrylonitrile	3.075	53	895719	514.199	ug/l	99
16) Acetone	2.386	43	680698	465.214	ug/l	99
17) Carbon Disulfide	2.526	76	1045599	98.086	ug/l	100
18) Methyl Acetate	2.715	43	381521	98.118	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	1109184	98.907	ug/l	100
20) Methylene Chloride	2.806	84	382904	95.122	ug/l	99
21) trans-1,2-Dichloroethene	3.105	96	370810	98.339	ug/l	97
22) Diisopropyl ether	3.770	45	1246566	97.342	ug/l	99
23) Vinyl Acetate	3.733	43	5255654	511.682	ug/l	100
24) 1,1-Dichloroethane	3.623	63	690059	96.903	ug/l	99
25) 2-Butanone	4.562	43	1064894	499.825	ug/l	99
26) 2,2-Dichloropropane	4.489	77	534633	96.986	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	433236	97.026	ug/l	99
28) Bromochloromethane	4.910	49	327531	99.974	ug/l	100
29) Tetrahydrofuran	5.013	42	696538	506.702	ug/l	99
30) Chloroform	5.105	83	688904	95.036	ug/l	98
31) Cyclohexane	5.483	56	644257	94.354	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	610295	96.931	ug/l	99
36) 1,1-Dichloropropene	5.702	75	486962	92.052	ug/l	99
37) Ethyl Acetate	4.721	43	464215	99.573	ug/l	99
38) Carbon Tetrachloride	5.690	117	534117	94.597	ug/l	99
39) Methylcyclohexane	7.385	83	643495	97.426	ug/l	98
40) Benzene	6.050	78	1458721	95.282	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047059.D
Acq On : 21 Jul 2025 11:11
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 03:39:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	266722	104.648	ug/l		99
42) 1,2-Dichloroethane	6.092	62	514986	95.493	ug/l		99
43) Isopropyl Acetate	6.342	43	782743	103.002	ug/l		99
44) Trichloroethene	7.129	130	372515	94.887	ug/l		99
45) 1,2-Dichloropropane	7.434	63	364769	95.131	ug/l		97
46) Dibromomethane	7.586	93	262070	97.464	ug/l		100
47) Bromodichloromethane	7.824	83	545715	95.349	ug/l		98
48) Methyl methacrylate	7.696	41	406578	98.210	ug/l		100
49) 1,4-Dioxane	7.659	88	97685	2074.633	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	2213299	490.000	ug/l		100
52) Toluene	8.720	92	900379	95.648	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	550435	101.846	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	595662	100.700	ug/l		100
55) 1,1,2-Trichloroethane	9.153	97	333552	94.482	ug/l		99
56) Ethyl methacrylate	9.116	69	546929	104.649	ug/l		99
57) 1,3-Dichloropropane	9.311	76	579525	94.454	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	1489901	512.296	ug/l		100
59) 2-Hexanone	9.433	43	1534390	514.162	ug/l		99
60) Dibromochloromethane	9.519	129	400453	96.718	ug/l		100
61) 1,2-Dibromoethane	9.610	107	350348	94.909	ug/l		99
64) Tetrachloroethene	9.275	164	299042	93.490	ug/l		96
65) Chlorobenzene	10.079	112	988883	95.134	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	338141	96.621	ug/l		99
67) Ethyl Benzene	10.195	91	1752485	96.425	ug/l		99
68) m/p-Xylenes	10.299	106	1302405	191.494	ug/l		99
69) o-Xylene	10.640	106	624795	96.565	ug/l		99
70) Styrene	10.652	104	1072801	96.694	ug/l		100
71) Bromoform	10.799	173	259124	97.473	ug/l	#	99
73) Isopropylbenzene	10.963	105	1645804	99.034	ug/l		100
74) N-amyl acetate	10.841	43	698465	105.369	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	457057	96.283	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	380871m	97.686	ug/l		
77) Bromobenzene	11.195	156	389788	97.789	ug/l		99
78) n-propylbenzene	11.305	91	1945548	97.969	ug/l		99
79) 2-Chlorotoluene	11.366	91	1150165	96.889	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	1340151	97.612	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	158030	104.426	ug/l		97
82) 4-Chlorotoluene	11.451	91	1340796	96.766	ug/l		99
83) tert-Butylbenzene	11.713	119	1347206	97.765	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	1346982	98.362	ug/l		99
85) sec-Butylbenzene	11.890	105	1682208	97.702	ug/l		100
86) p-Isopropyltoluene	12.006	119	1404678	98.379	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	717851	94.782	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	726014	94.617	ug/l		98
89) n-Butylbenzene	12.329	91	1323274	98.826	ug/l		100
90) Hexachloroethane	12.536	117	260929	102.152	ug/l		100
91) 1,2-Dichlorobenzene	12.329	146	684462	94.557	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	97209	106.683	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	481866	100.755	ug/l		100
94) Hexachlorobutadiene	13.725	225	165153	101.539	ug/l		98
95) Naphthalene	13.774	128	1474039	105.135	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	464244	100.760	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047059.D
Acq On : 21 Jul 2025 11:11
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 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:39:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

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

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

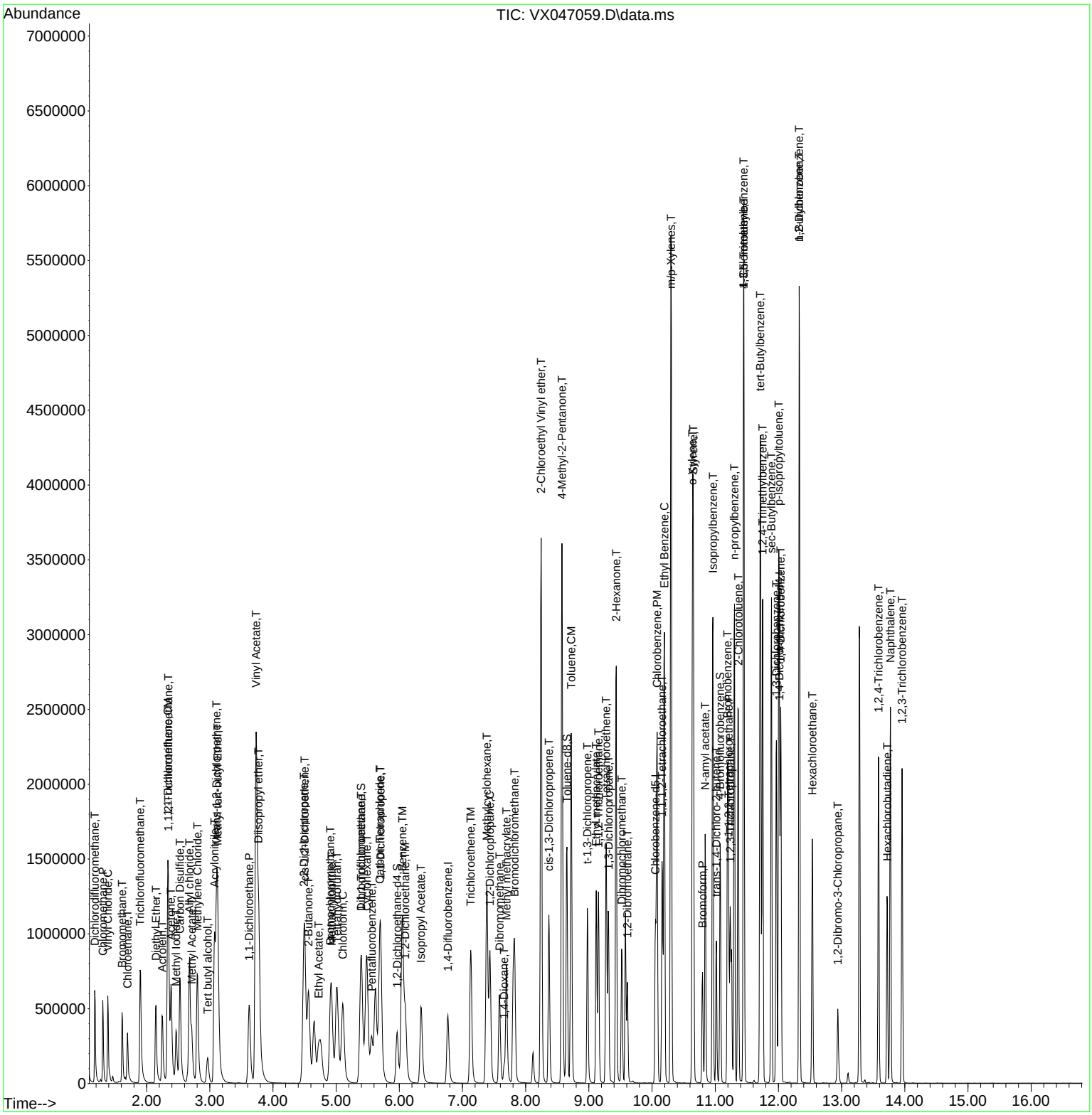
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047059.D
Acq On : 21 Jul 2025 11:11
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

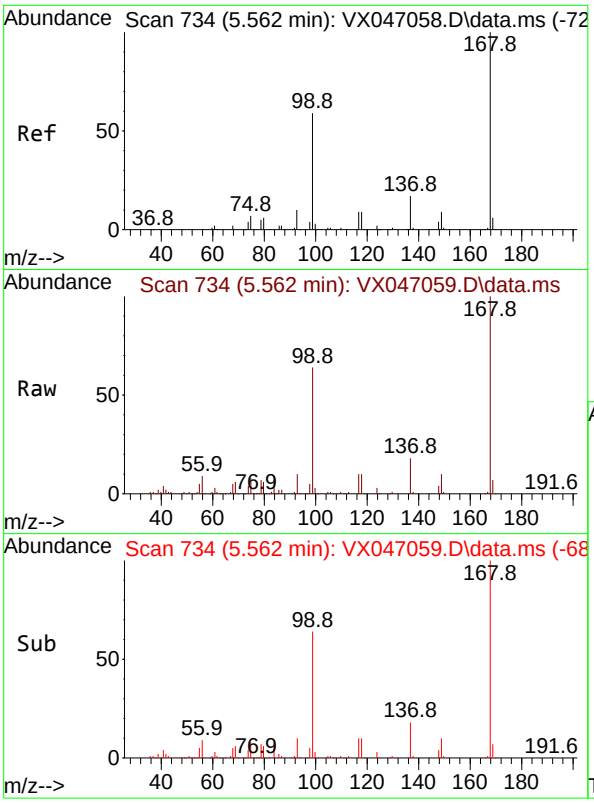
Quant Time: Jul 22 03:39:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

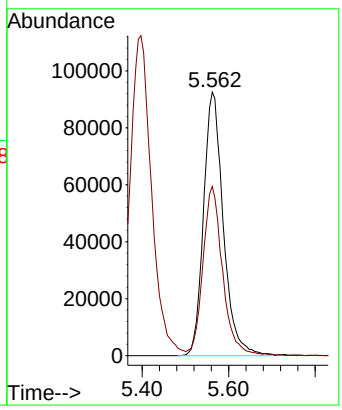




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:168 Resp: 29321

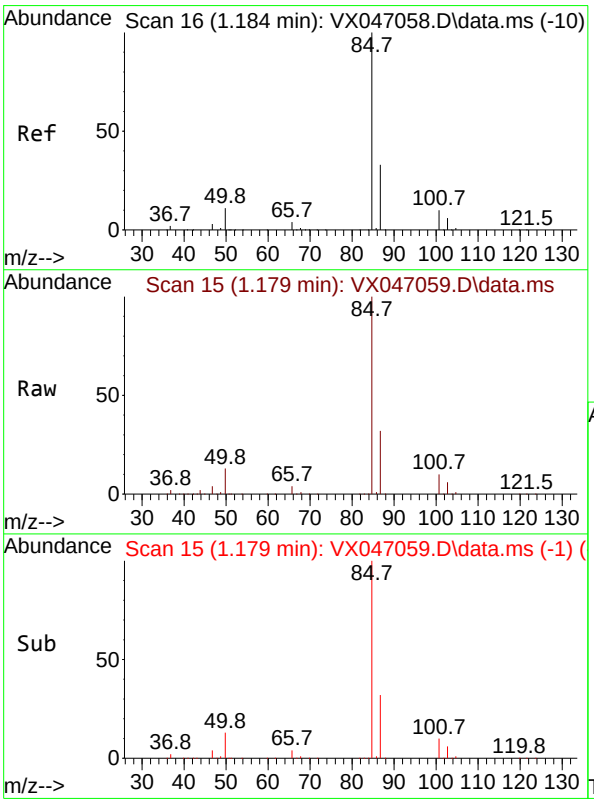
Ion	Ratio	Lower	Upper
168	100		
99	63.8	48.0	72.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

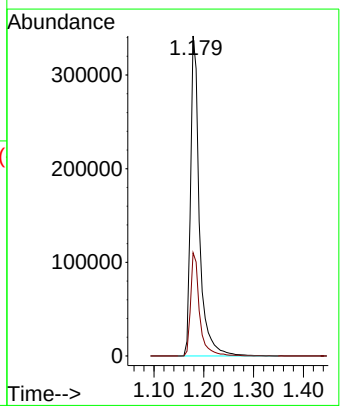
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

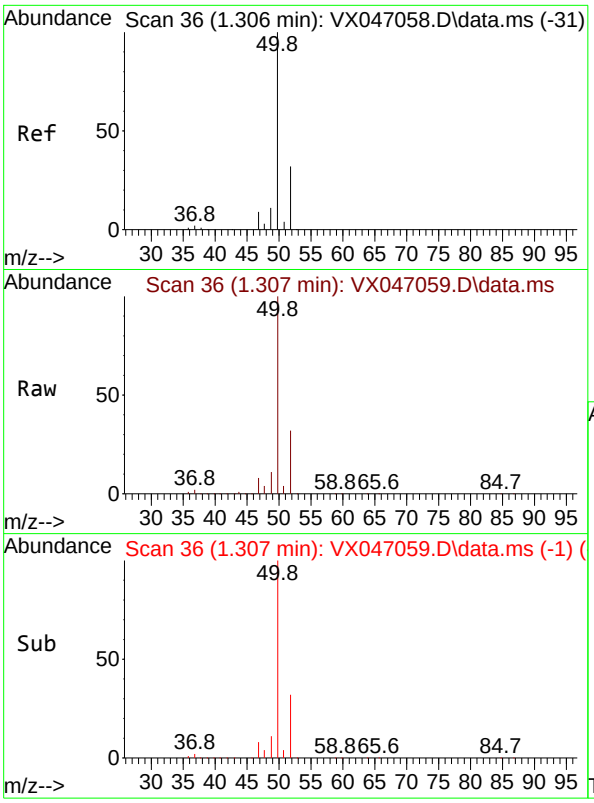


#2
Dichlorodifluoromethane
Concen: 108.536 ug/l
RT: 1.179 min Scan# 15
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 85 Resp: 422702

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8

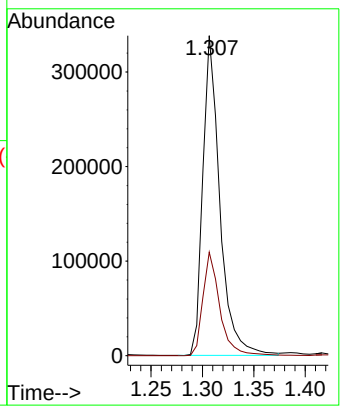




#3
Chloromethane
Concen: 101.483 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 50 Resp: 39095

Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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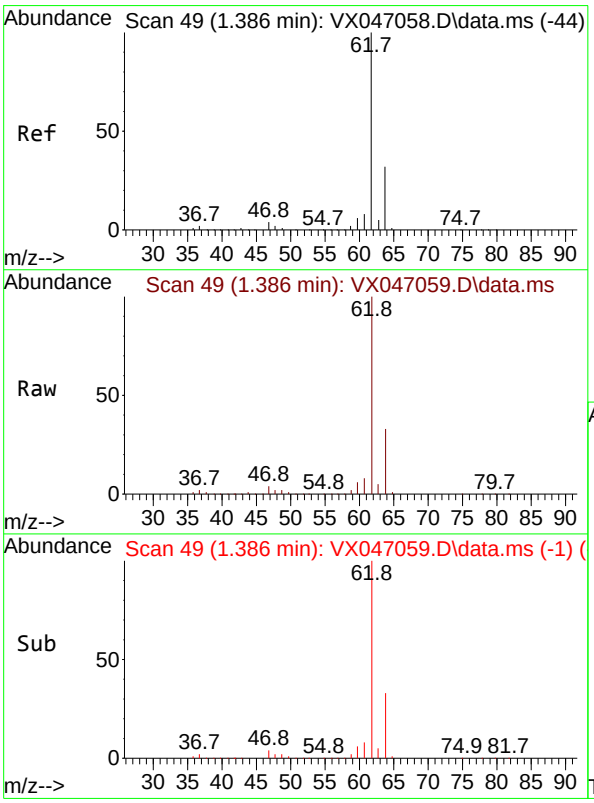
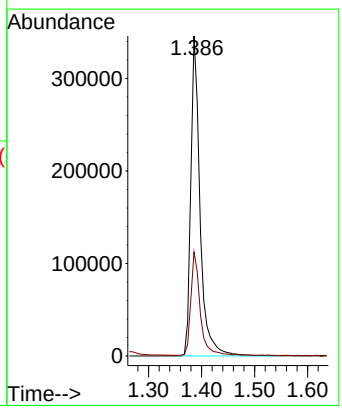
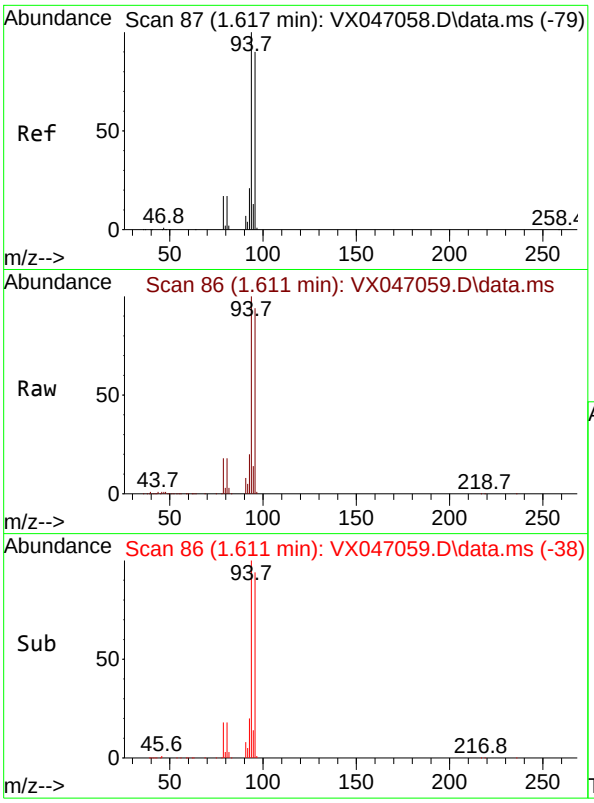


#4
Vinyl Chloride
Concen: 101.428 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 62 Resp: 420036

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.2	37.8

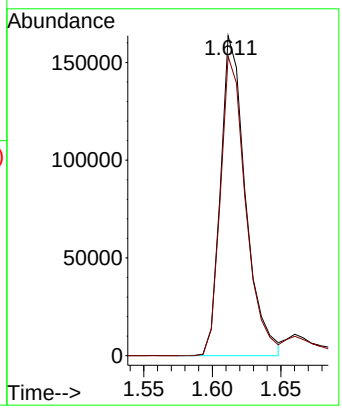




#5
Bromomethane
Concen: 92.097 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 94 Resp: 20717

Ion	Ratio	Lower	Upper
94	100		
96	94.6	72.3	108.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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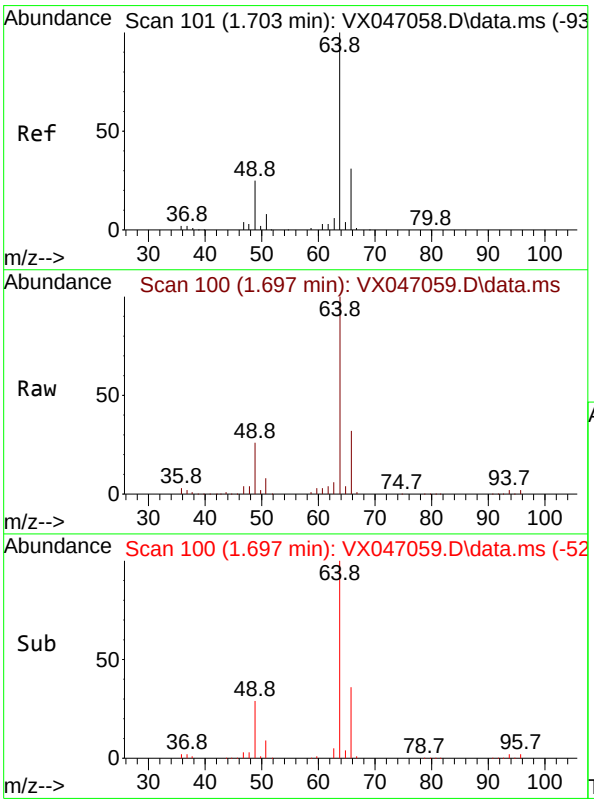
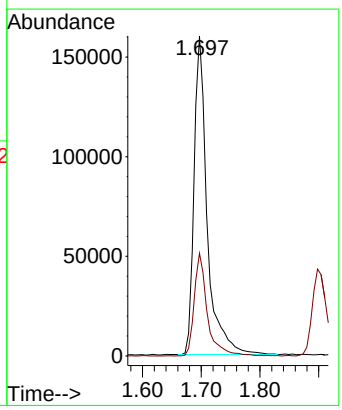
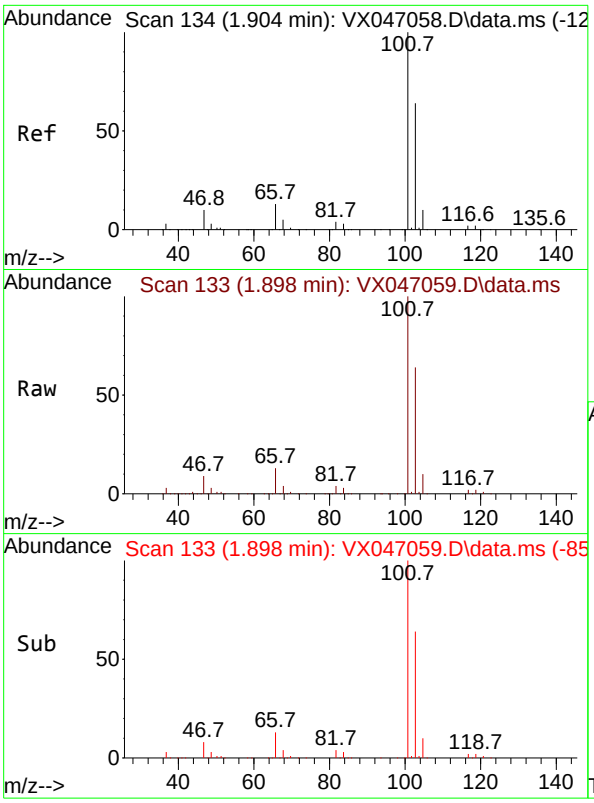


#6
Chloroethane
Concen: 91.235 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 64 Resp: 248151

Ion	Ratio	Lower	Upper
64	100		
66	32.2	25.0	37.6

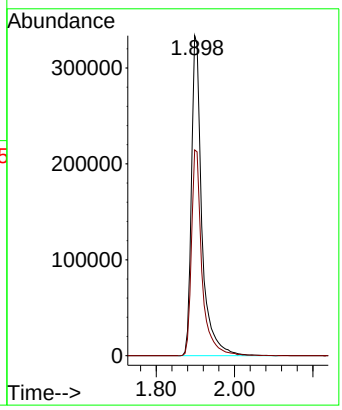




#7
Trichlorofluoromethane
Concen: 100.093 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:101 Resp: 61808

Ion	Ratio	Lower	Upper
101	100		
103	64.3	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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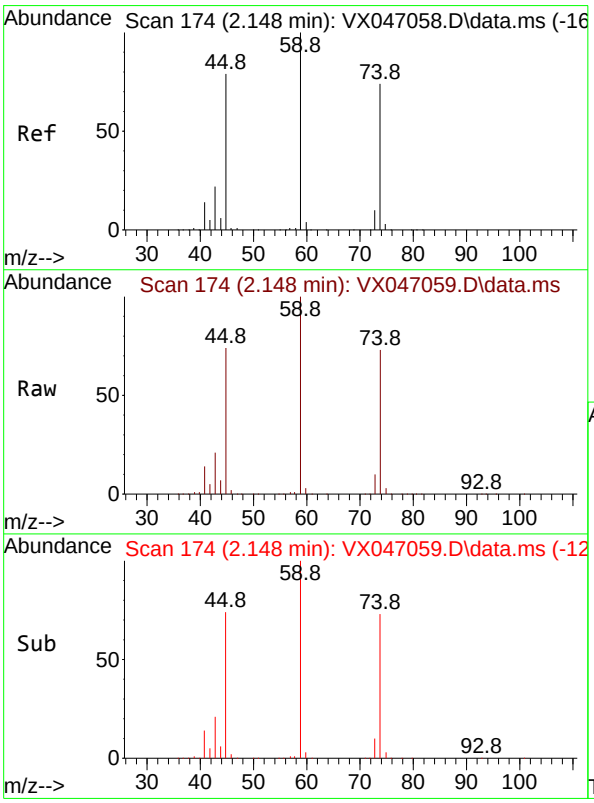
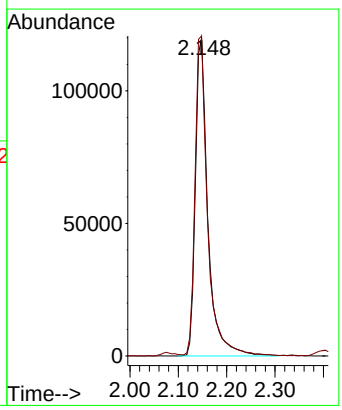
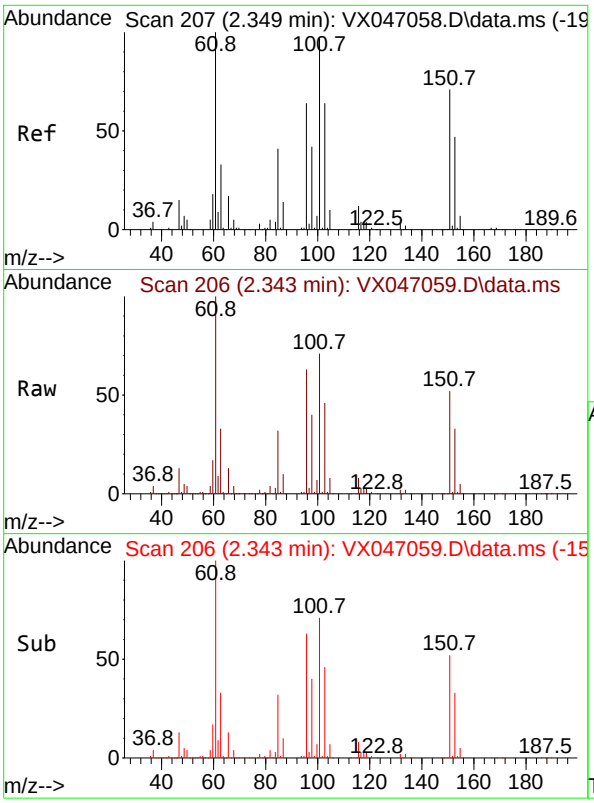


#8
Diethyl Ether
Concen: 98.730 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 74 Resp: 214962

Ion	Ratio	Lower	Upper
74	100		
45	101.2	53.0	159.0

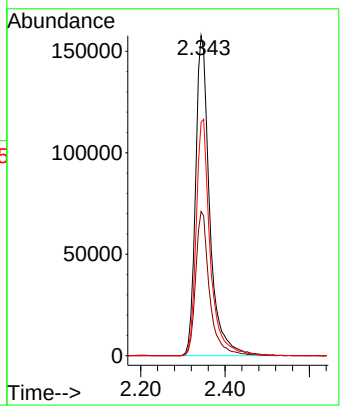




#9
1,1,2-Trichlorotrifluoroethane
Concen: 98.771 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:101 Resp: 36746

Ion	Ratio	Lower	Upper
101	100		
85	44.5	35.4	53.0
151	73.7	59.2	88.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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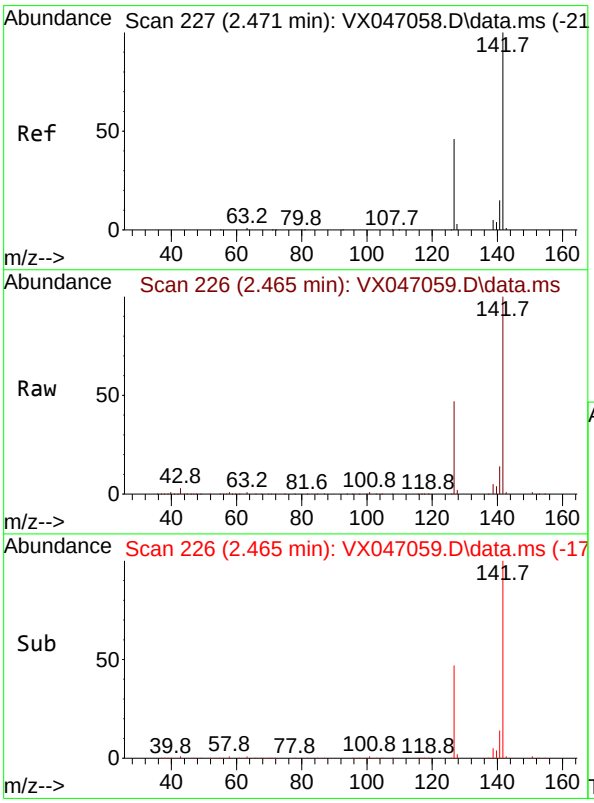
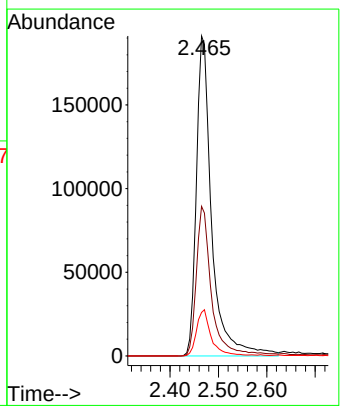
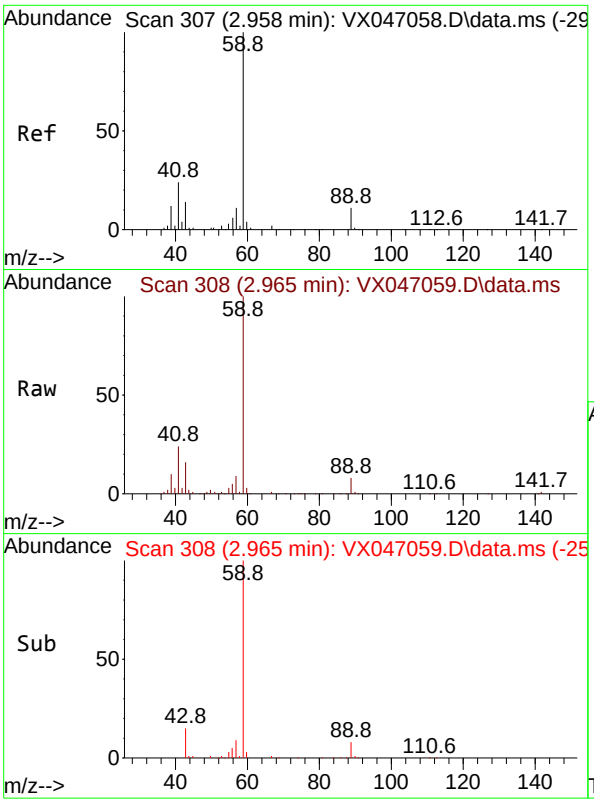


#10
Methyl Iodide
Concen: 111.100 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:142 Resp: 421251

Ion	Ratio	Lower	Upper
142	100		
127	46.5	36.6	54.8
141	13.7	10.9	16.3

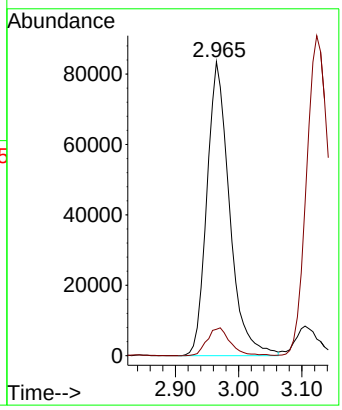




#11
Tert butyl alcohol
Concen: 496.373 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 59 Resp: 20760

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.5	12.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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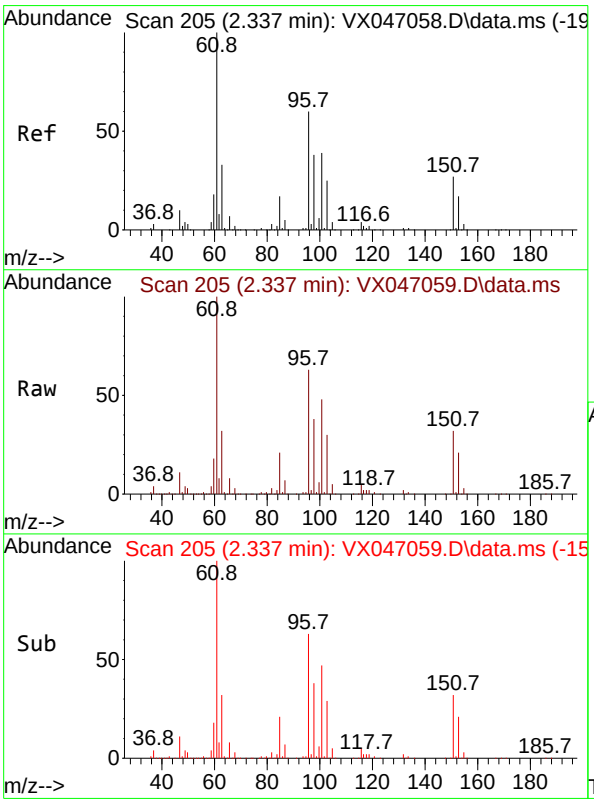
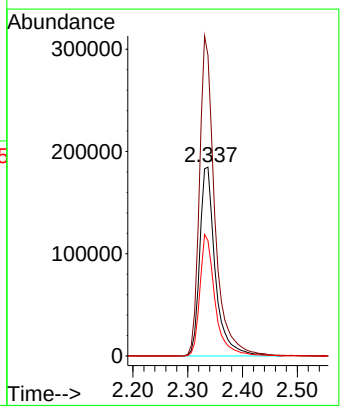
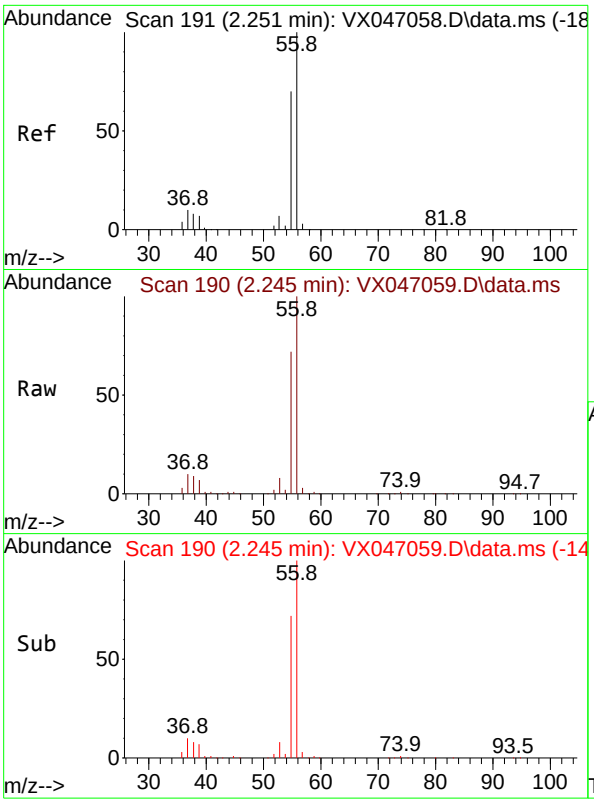


#12
1,1-Dichloroethene
Concen: 99.237 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 96 Resp: 365672

Ion	Ratio	Lower	Upper
96	100		
61	159.2	132.6	198.8
98	61.1	50.2	75.4

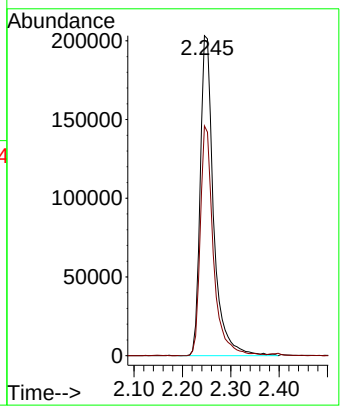




#13
Acrolein
Concen: 496.280 ug/l
RT: 2.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 56 Resp: 39029

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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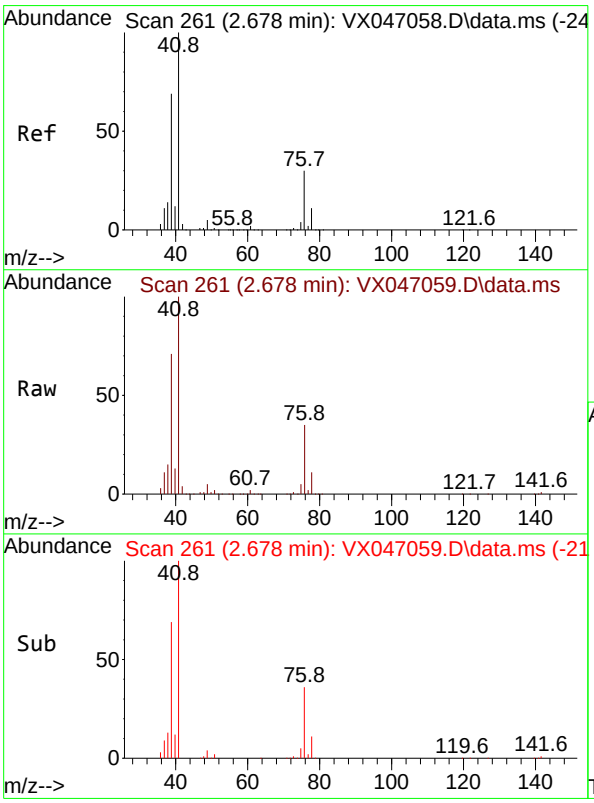
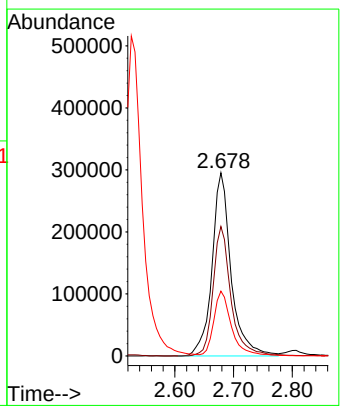
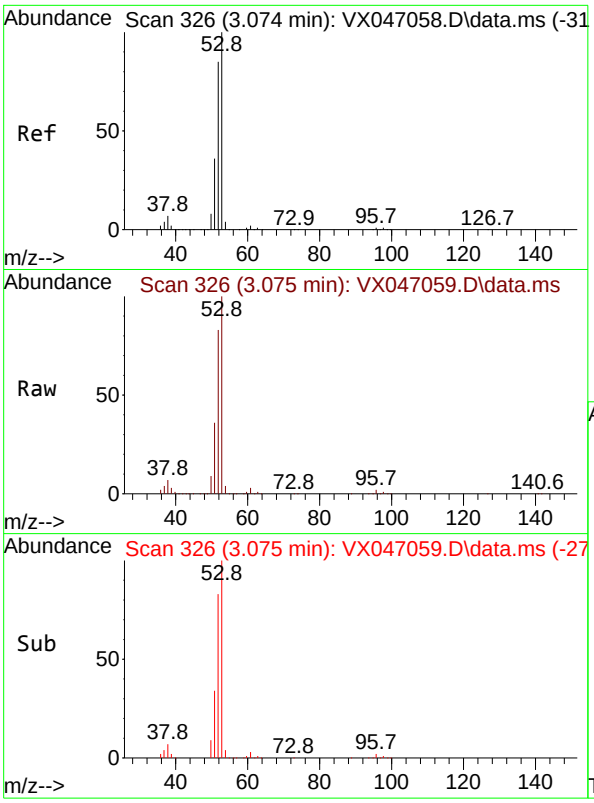


#14
Allyl chloride
Concen: 100.294 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 41 Resp: 668038

Ion	Ratio	Lower	Upper
41	100		
39	66.1	52.6	78.8
76	32.9	25.7	38.5

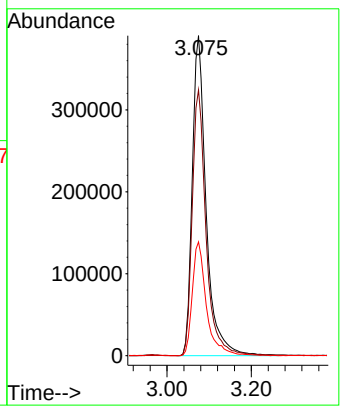




#15
Acrylonitrile
Concen: 514.199 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 53 Resp: 89571

Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.7	98.5
51	36.3	28.8	43.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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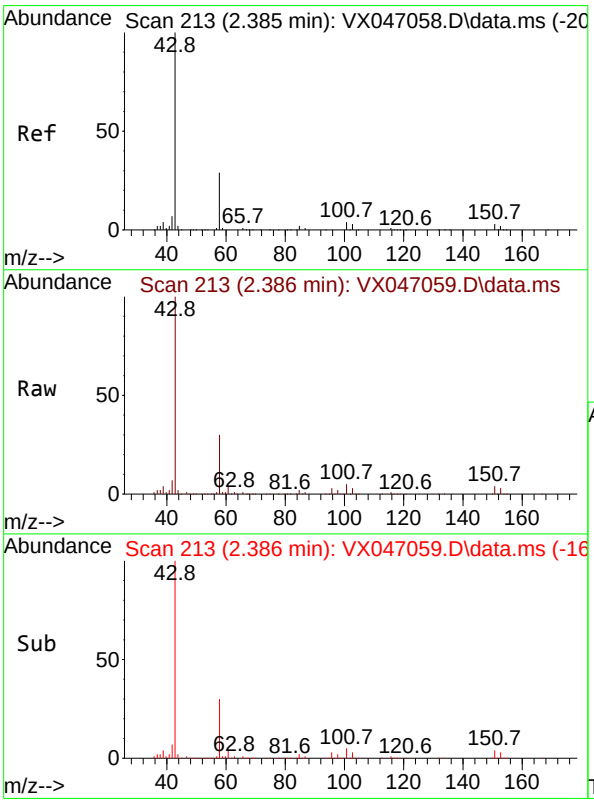
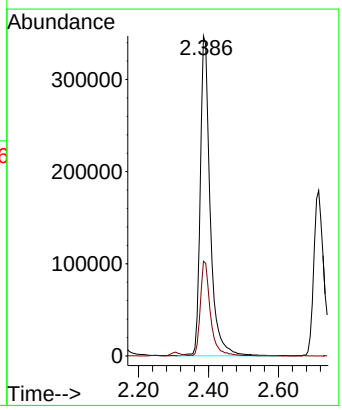
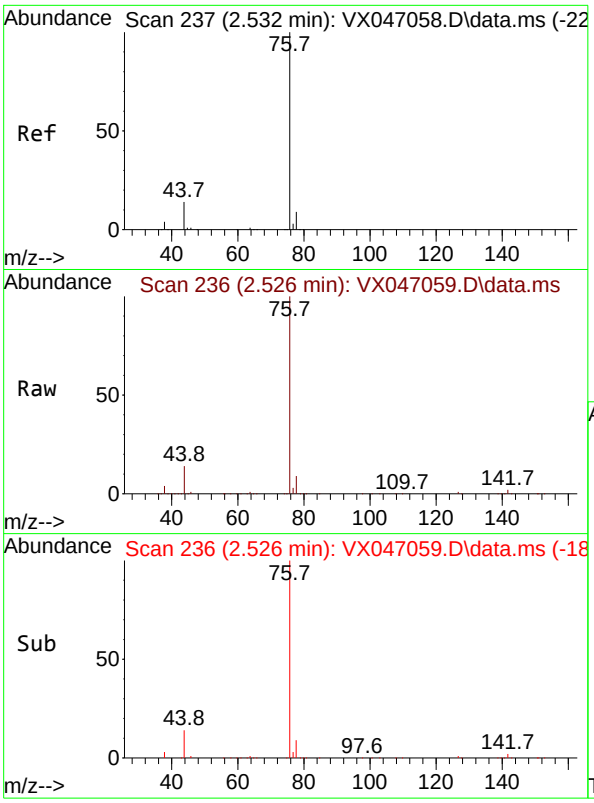


#16
Acetone
Concen: 465.214 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 43 Resp: 680698

Ion	Ratio	Lower	Upper
43	100		
58	29.7	24.0	36.0

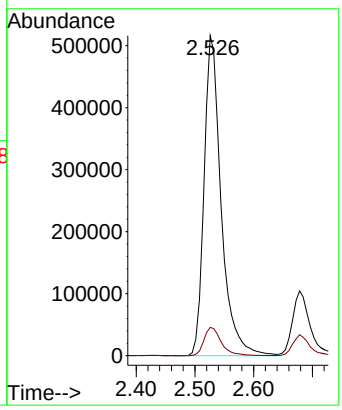




#17
Carbon Disulfide
Concen: 98.086 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 76 Resp: 104559

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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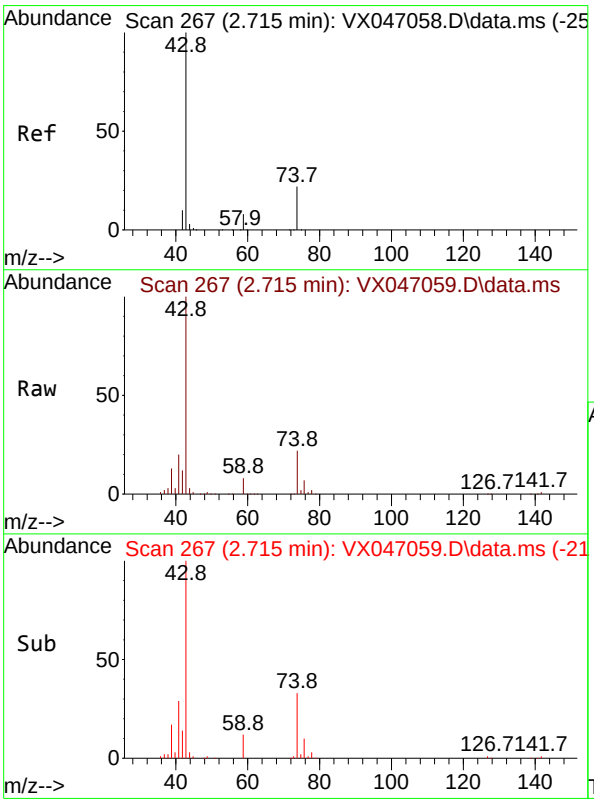
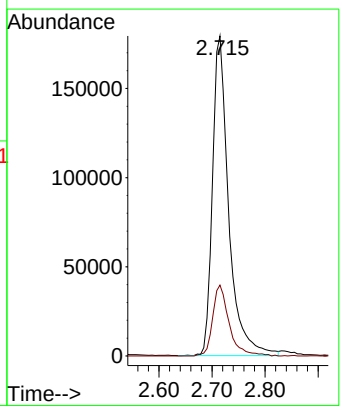
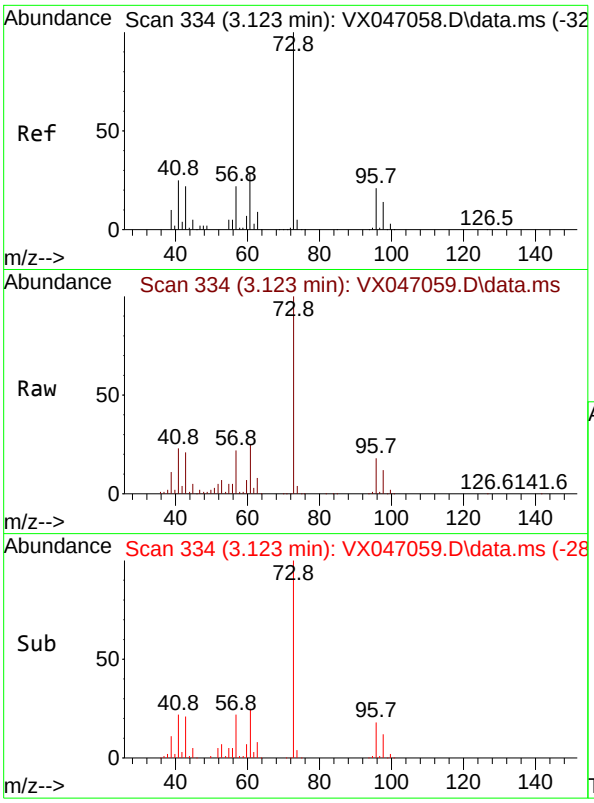


#18
Methyl Acetate
Concen: 98.118 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 43 Resp: 381521

Ion	Ratio	Lower	Upper
43	100		
74	22.5	17.7	26.5

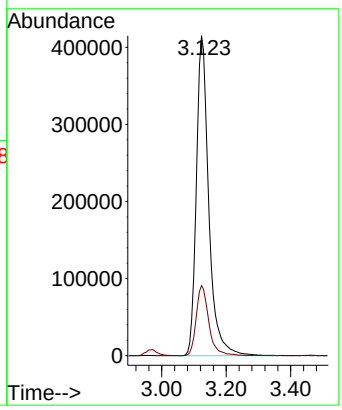




#19
Methyl tert-butyl Ether
Concen: 98.907 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 73 Resp: 110918

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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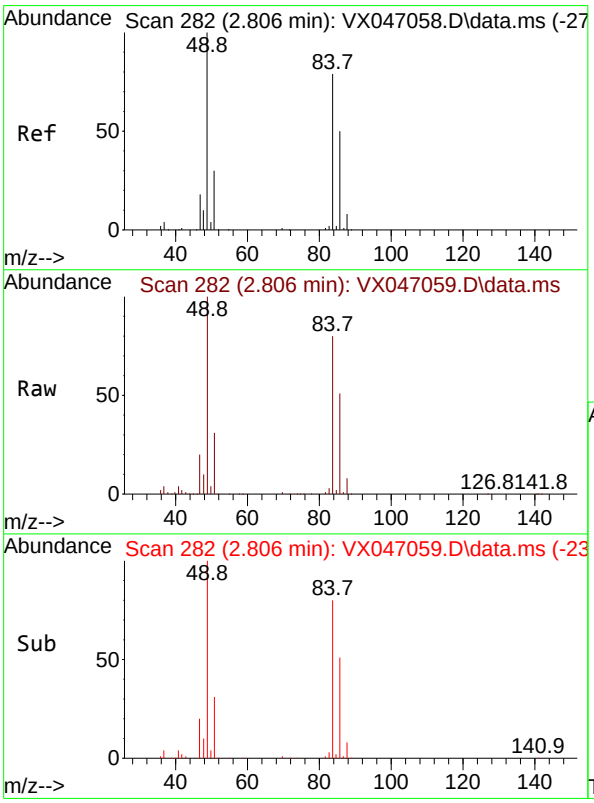
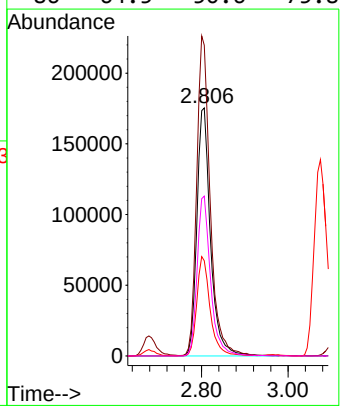
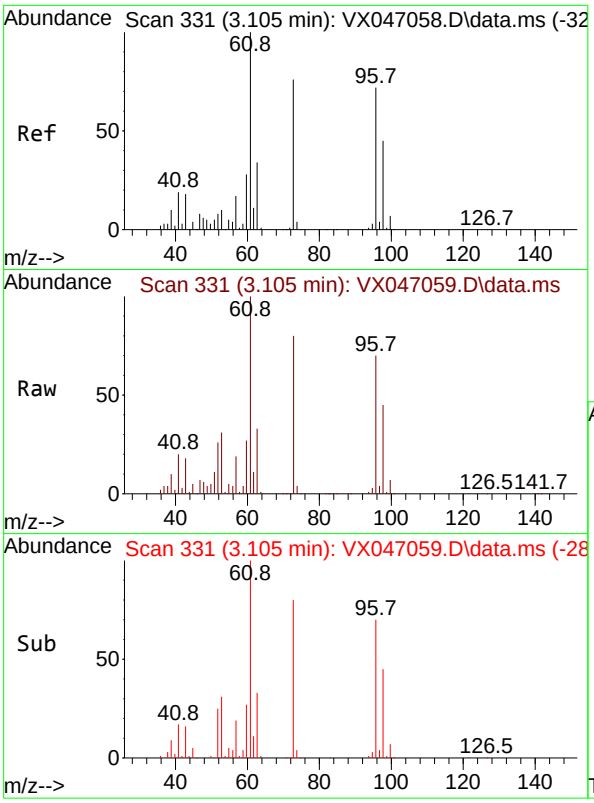


#20
Methylene Chloride
Concen: 95.122 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 84 Resp: 382904

Ion	Ratio	Lower	Upper
84	100		
49	125.1	101.6	152.4
51	38.3	30.3	45.5
86	64.5	50.6	75.8

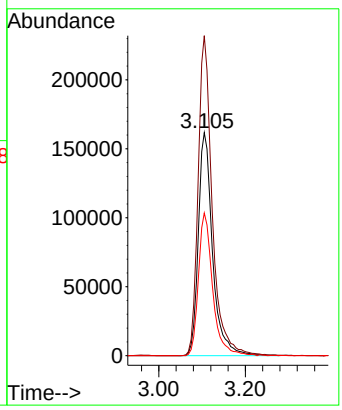




#21
trans-1,2-Dichloroethene
Concen: 98.339 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 96 Resp: 37081

Ion	Ratio	Lower	Upper
96	100		
61	143.5	111.1	166.7
98	64.0	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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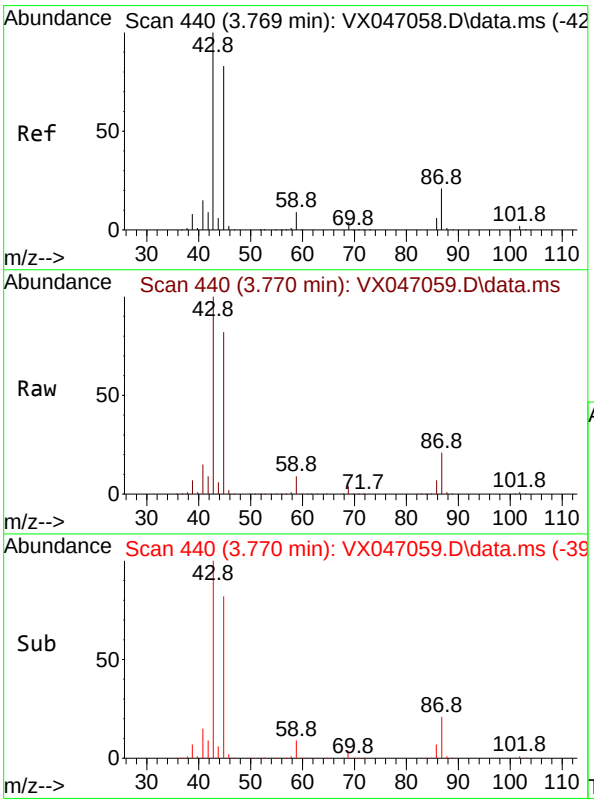
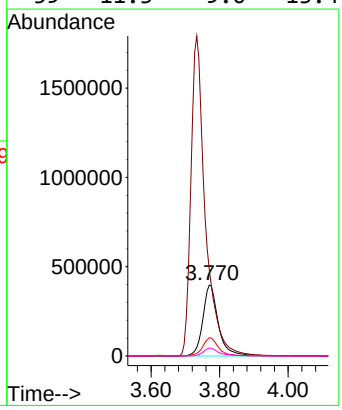
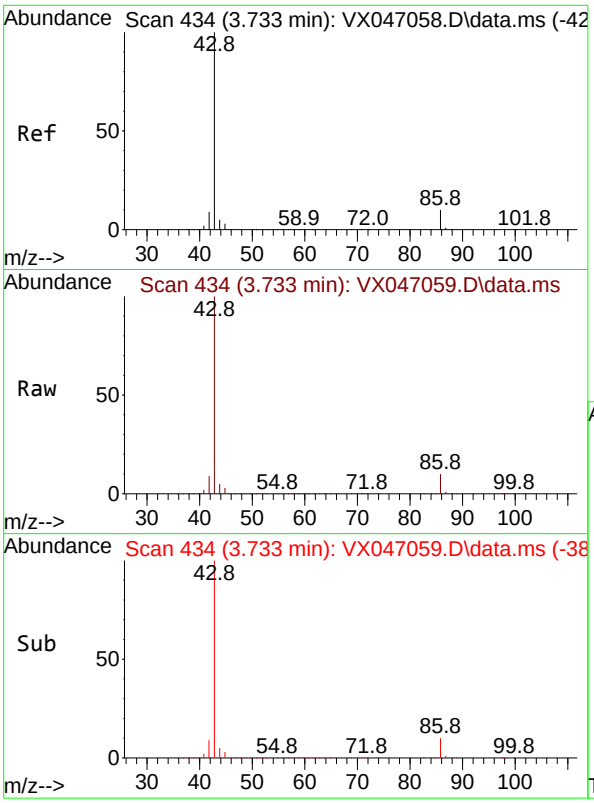


#22
Diisopropyl ether
Concen: 97.342 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 45 Resp: 1246566

Ion	Ratio	Lower	Upper
45	100		
43	121.8	96.8	145.2
87	25.7	20.5	30.7
59	11.3	9.0	13.4





#23
Vinyl Acetate
Concen: 511.682 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 43 Resp: 525565

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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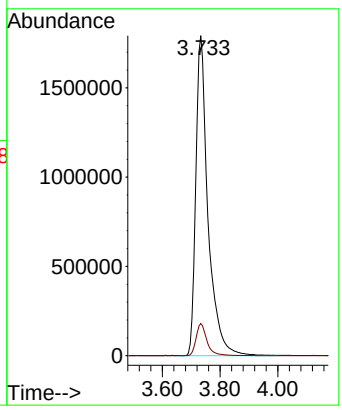
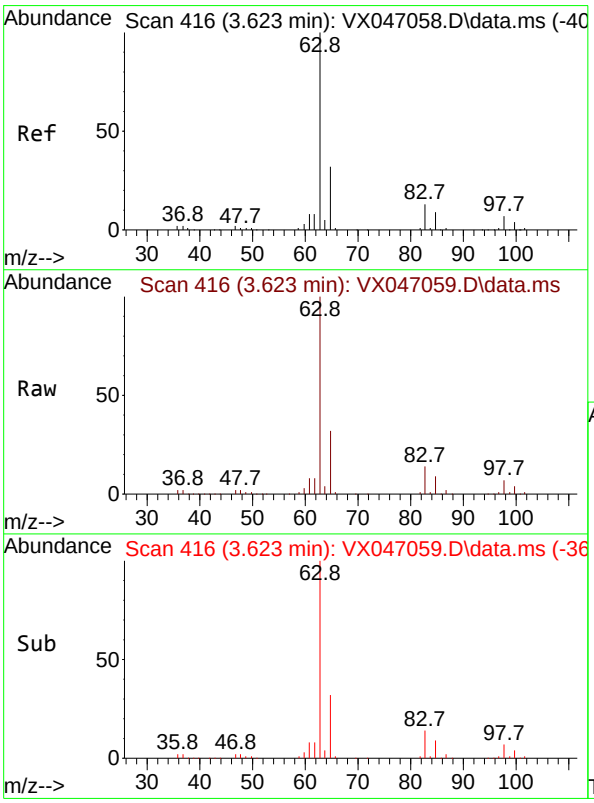
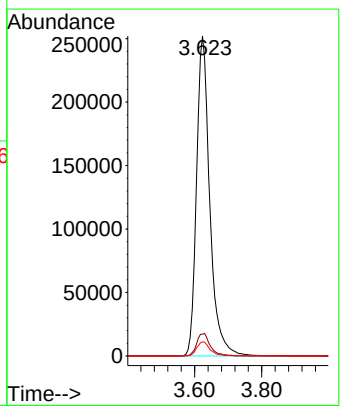


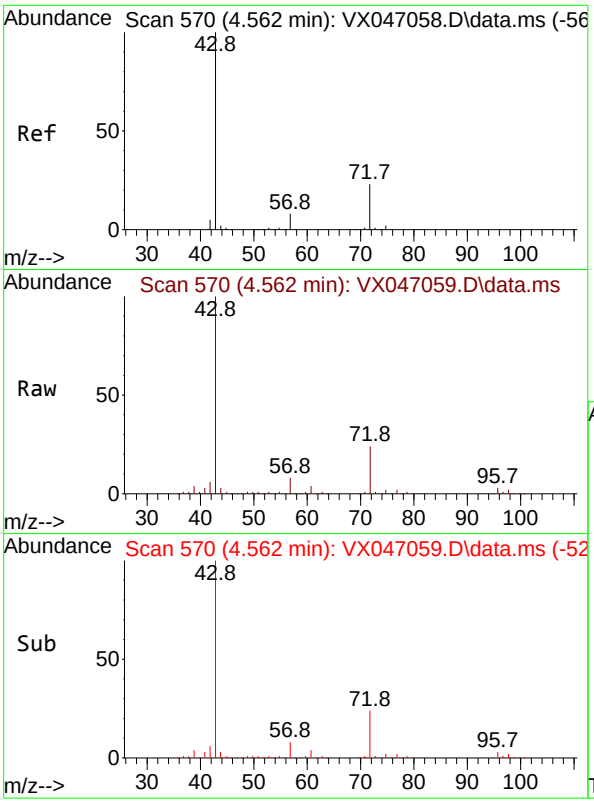


#24
1,1-Dichloroethane
Concen: 96.903 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 63 Resp: 690059

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.6	10.8
100	4.4	2.3	6.8





#25
2-Butanone
Concen: 499.825 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 43 Resp: 106489

Ion	Ratio	Lower	Upper
43	100		
72	24.2	18.8	28.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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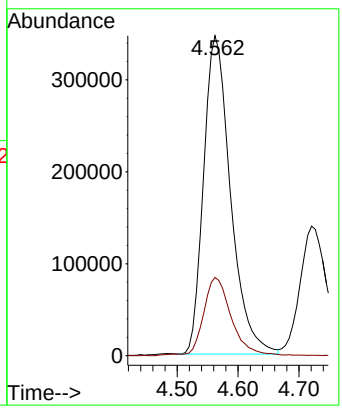
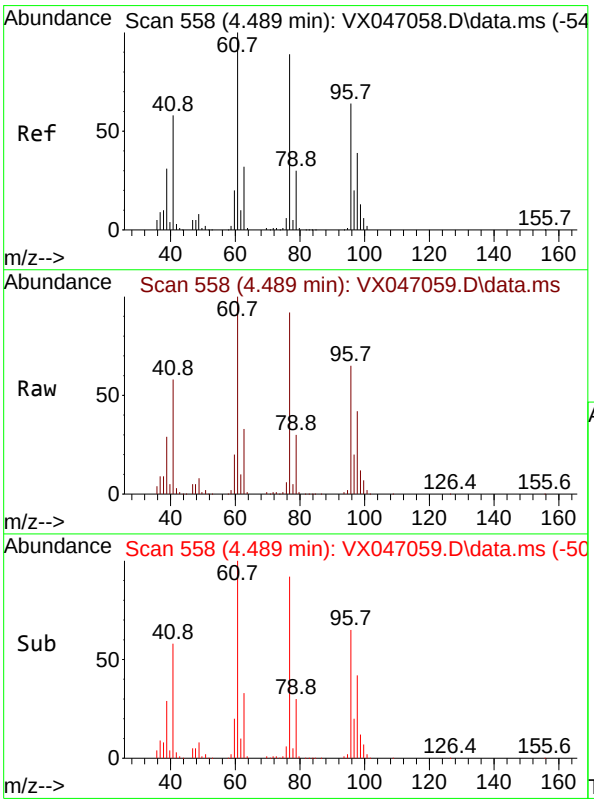
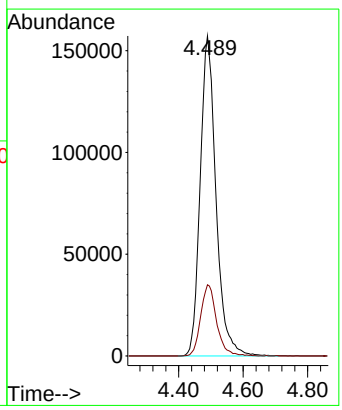


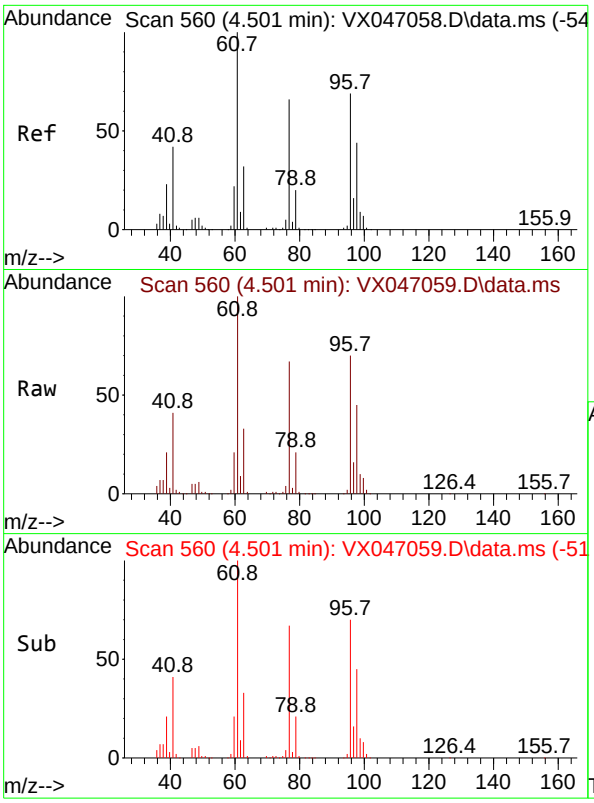


#26
2,2-Dichloropropane
Concen: 96.986 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 77 Resp: 534633

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.4	34.1

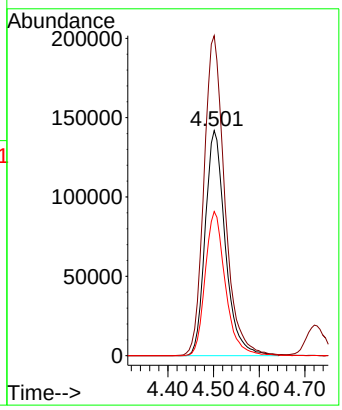




#27
cis-1,2-Dichloroethene
Concen: 97.026 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 96 Resp: 43323

Ion	Ratio	Lower	Upper
96	100		
61	147.5	0.0	298.6
98	64.3	0.0	128.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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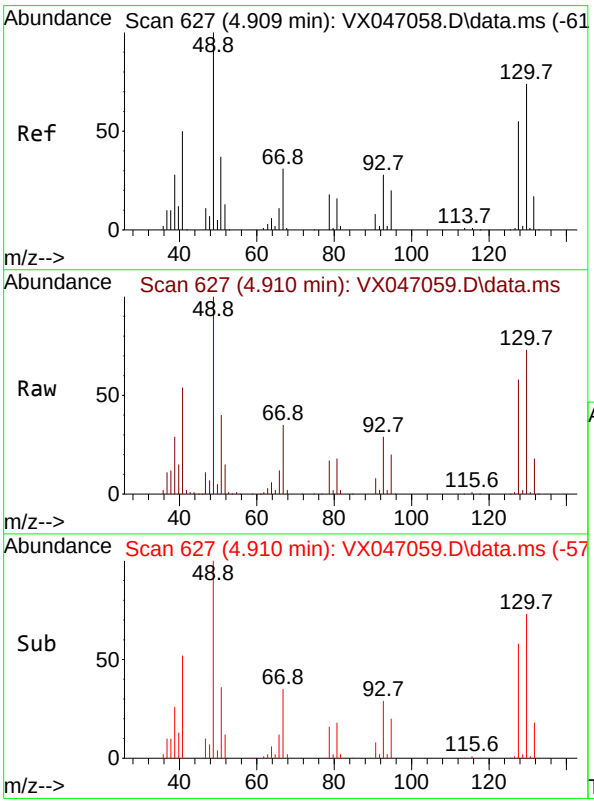
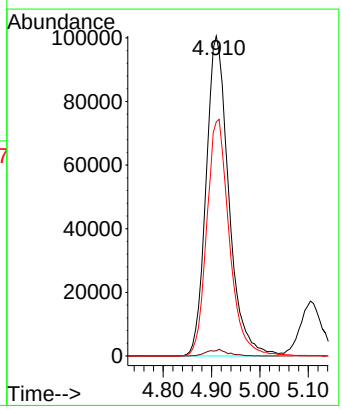
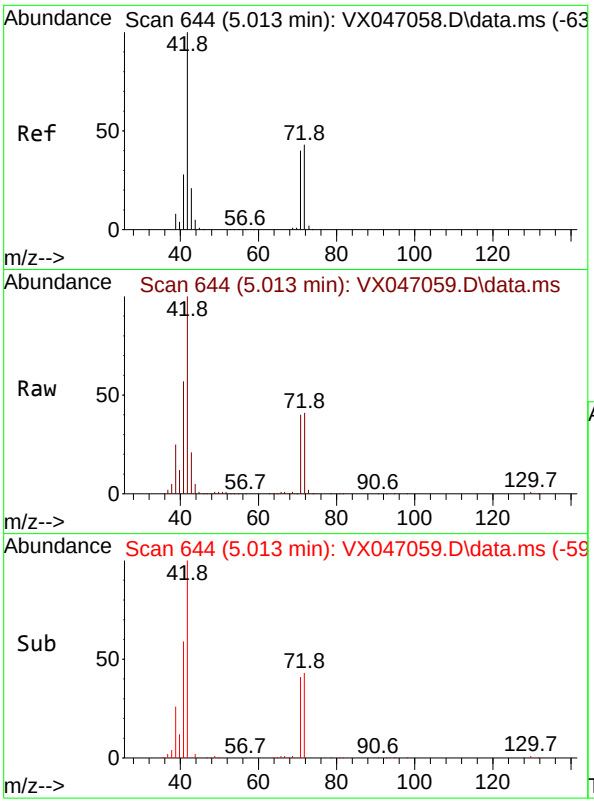


#28
Bromochloromethane
Concen: 99.974 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 49 Resp: 327531

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	73.6	59.0	88.4

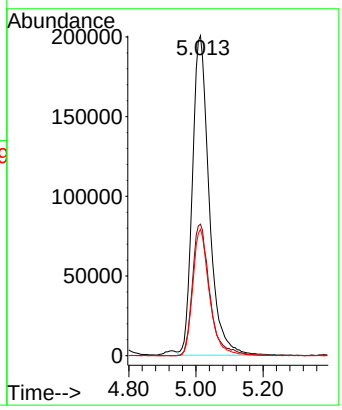




#29
Tetrahydrofuran
Concen: 506.702 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 42 Resp: 69653

Ion	Ratio	Lower	Upper
42	100		
72	42.6	33.7	50.5
71	39.4	31.0	46.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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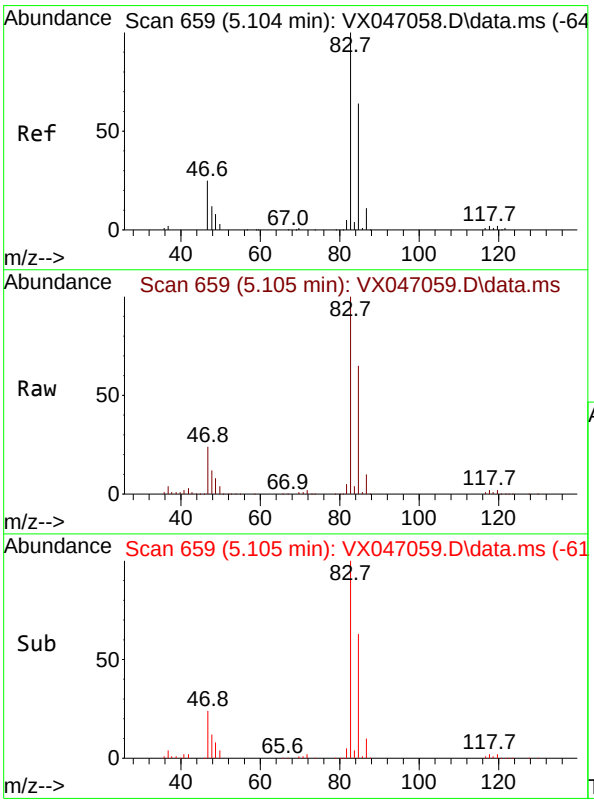
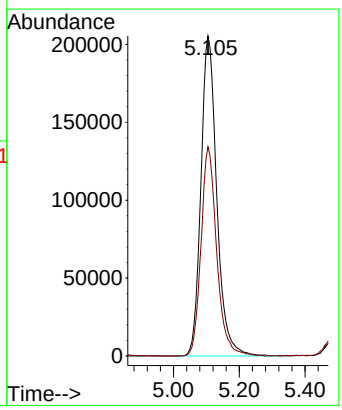
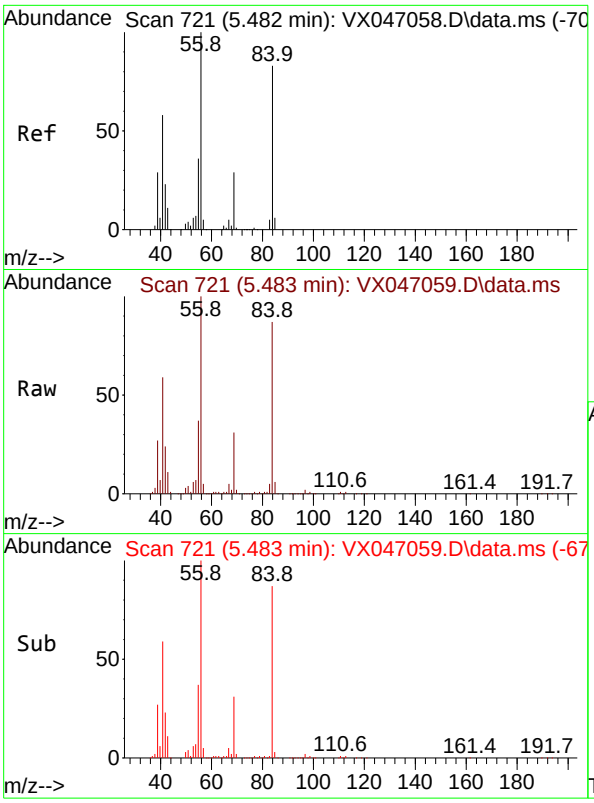


#30
Chloroform
Concen: 95.036 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 83 Resp: 688904

Ion	Ratio	Lower	Upper
83	100		
85	65.4	50.9	76.3

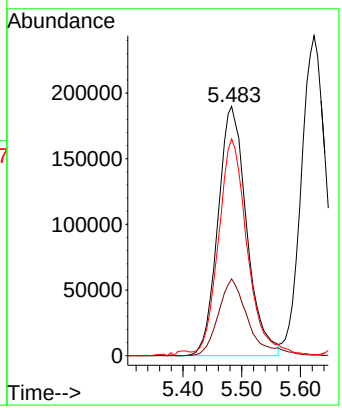




#31
Cyclohexane
Concen: 94.354 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 56 Resp: 64425

Ion	Ratio	Lower	Upper
56	100		
69	30.4	23.3	34.9
84	85.3	66.5	99.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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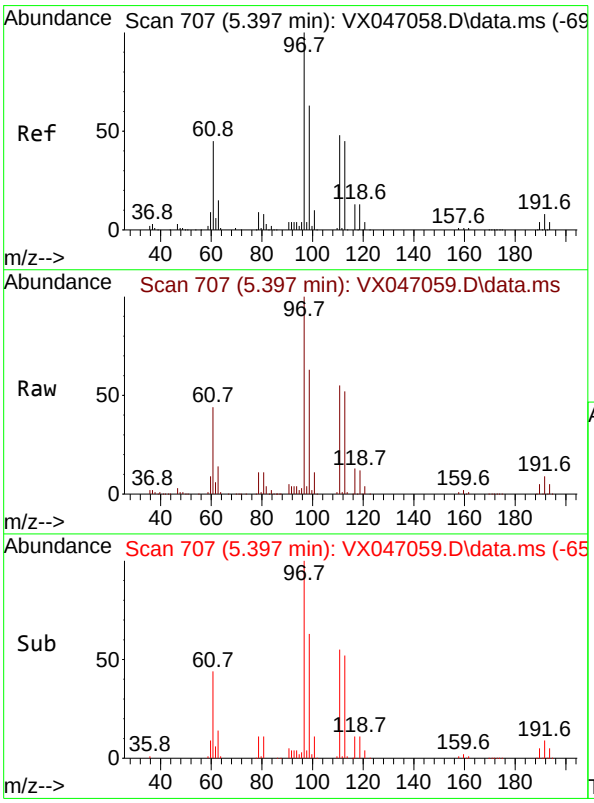
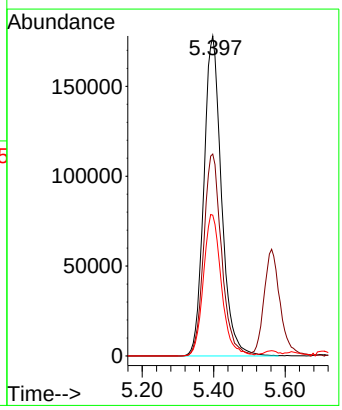
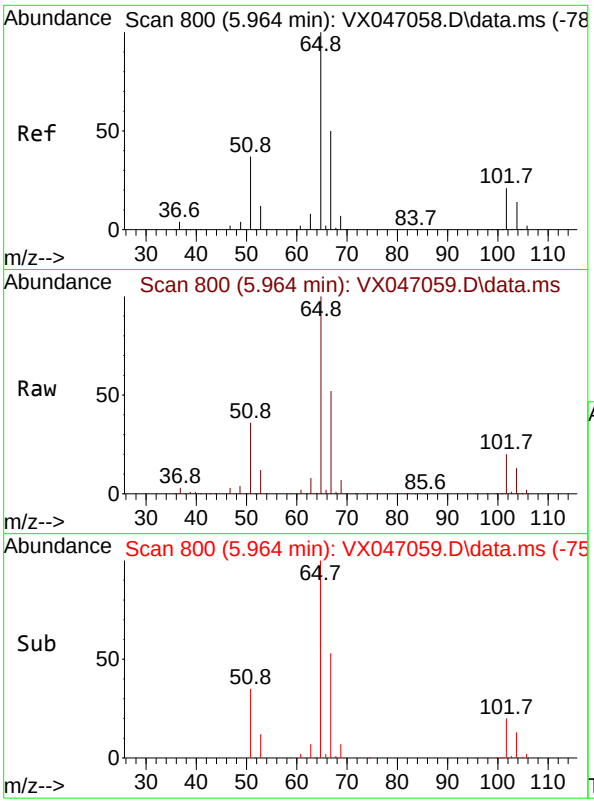


#32
1,1,1-Trichloroethane
Concen: 96.931 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 97 Resp: 610295

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.2	76.8
61	45.1	37.1	55.7

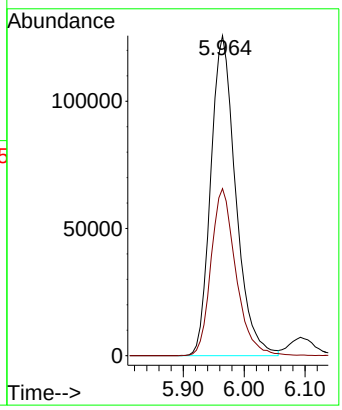




#33
1,2-Dichloroethane-d4
Concen: 98.067 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 65 Resp: 35818

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	104.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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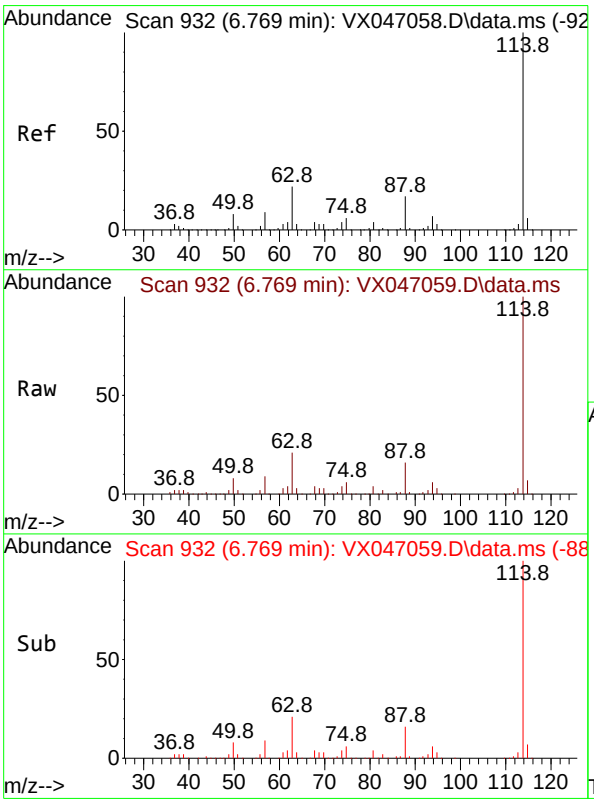
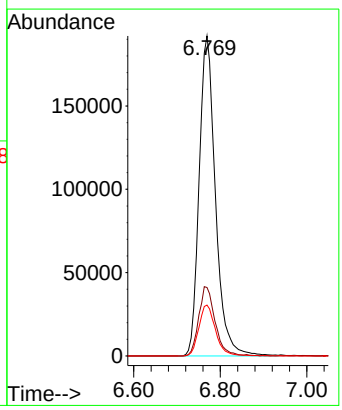
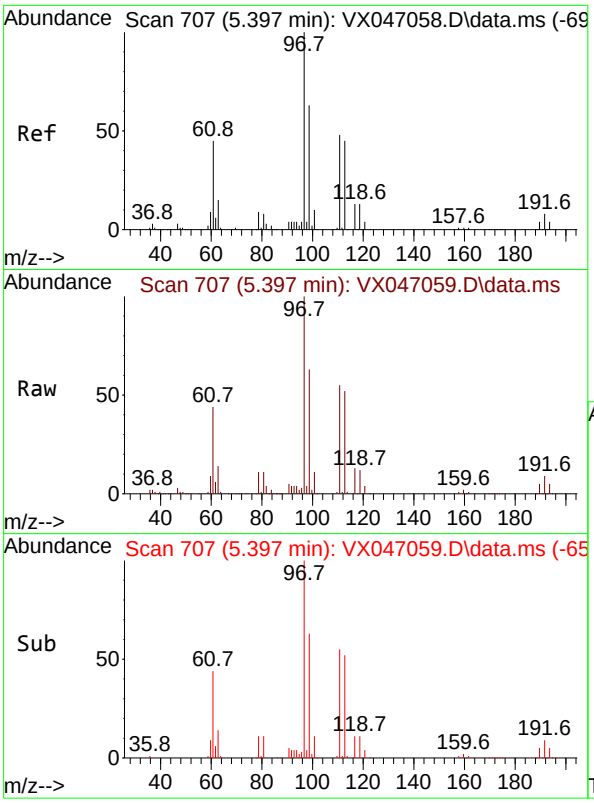


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:114 Resp: 502636

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	43.2
88	15.9	0.0	33.8

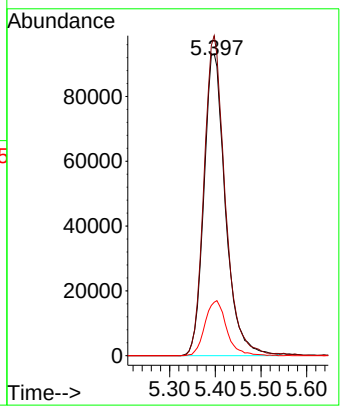




#35
Dibromofluoromethane
Concen: 97.981 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:113 Resp: 30407

Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.6	124.0
192	18.4	14.9	22.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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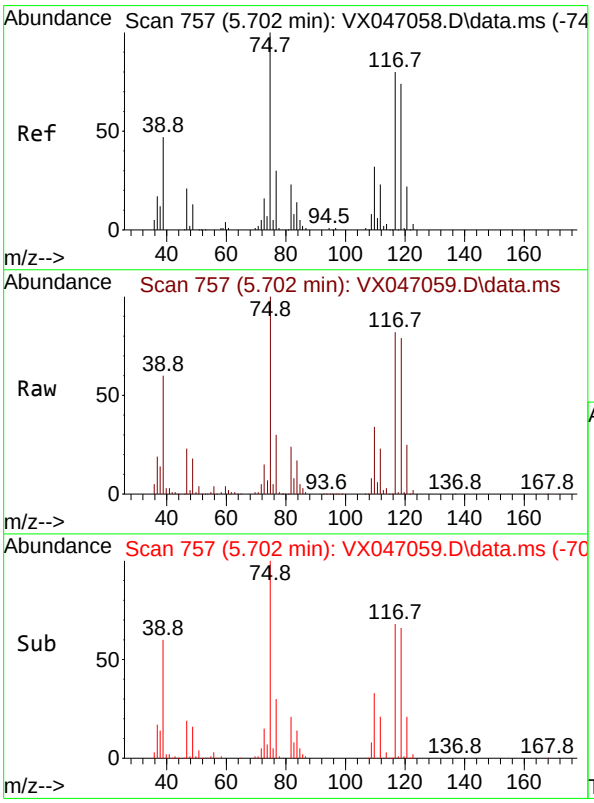
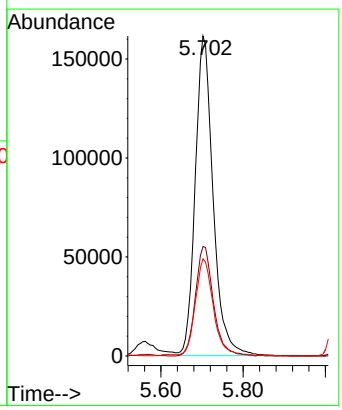
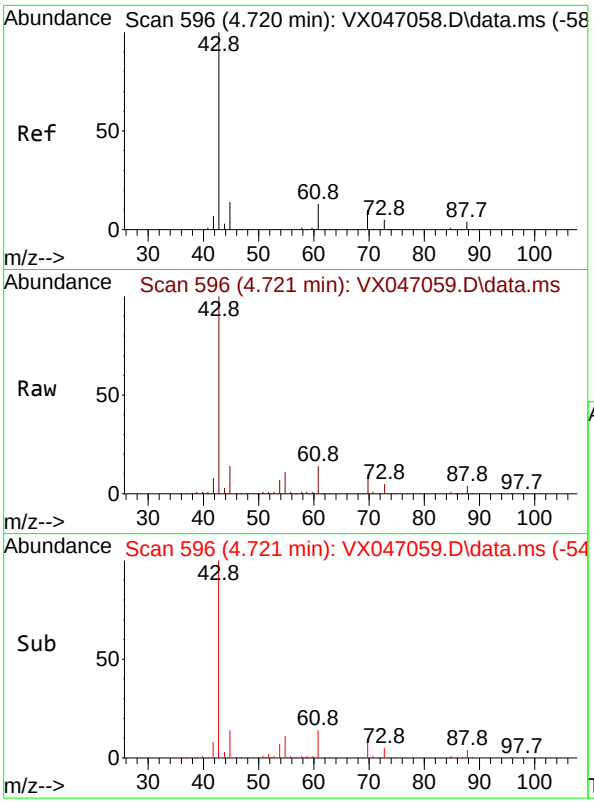


#36
1,1-Dichloropropene
Concen: 92.052 ug/l
RT: 5.702 min Scan# 757
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 75 Resp: 486962

Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.2	51.5
77	30.5	25.1	37.7





#37
Ethyl Acetate
Concen: 99.573 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 43 Resp: 46421

Ion	Ratio	Lower	Upper
43	100		
61	13.0	10.2	15.2
70	10.3	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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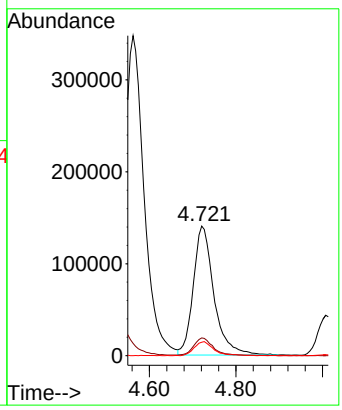
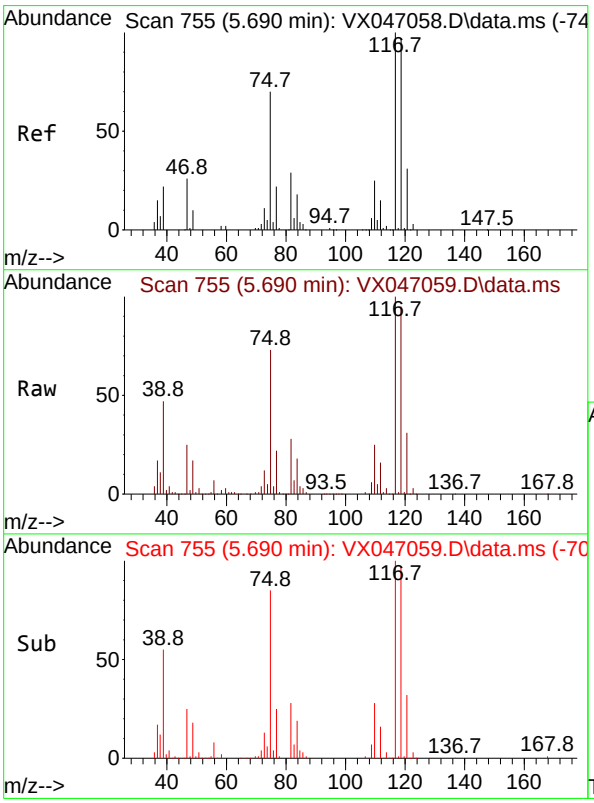
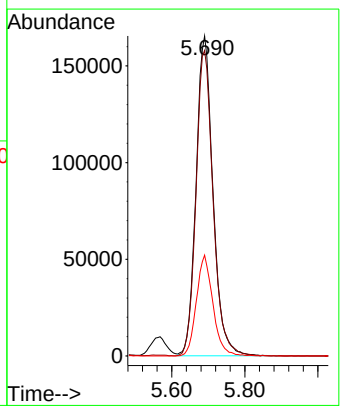


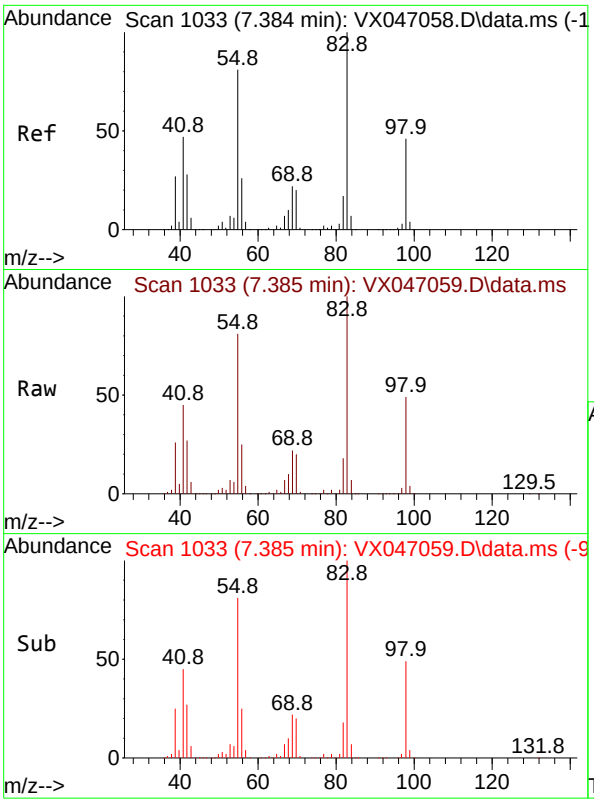


#38
Carbon Tetrachloride
Concen: 94.597 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:117 Resp: 534117

Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.6	115.0
121	31.5	24.4	36.6

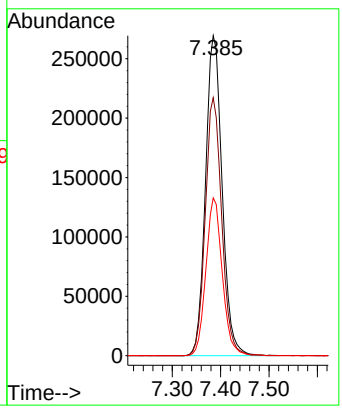




#39
Methylcyclohexane
Concen: 97.426 ug/l
RT: 7.385 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 83 Resp: 64349

Ion	Ratio	Lower	Upper
83	100		
55	80.6	64.5	96.7
98	49.3	36.9	55.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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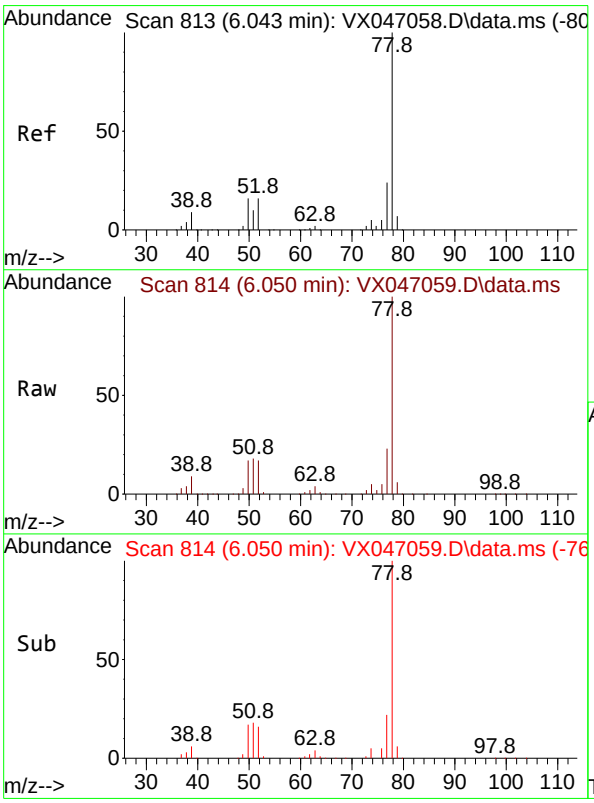
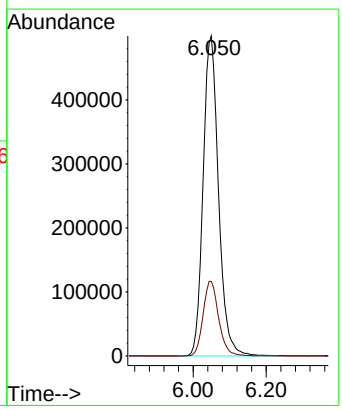
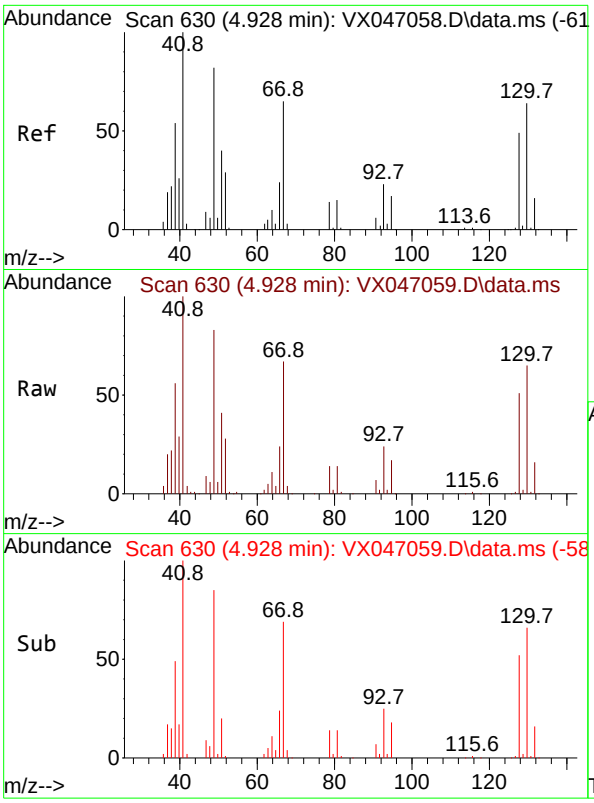


#40
Benzene
Concen: 95.282 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 78 Resp: 1458721

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.4

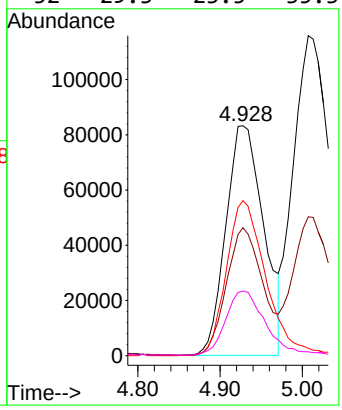




#41
Methacrylonitrile
Concen: 104.648 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 41 Resp: 26672

Ion	Ratio	Lower	Upper
41	100		
39	53.6	44.2	66.2
67	71.1	56.4	84.6
52	29.3	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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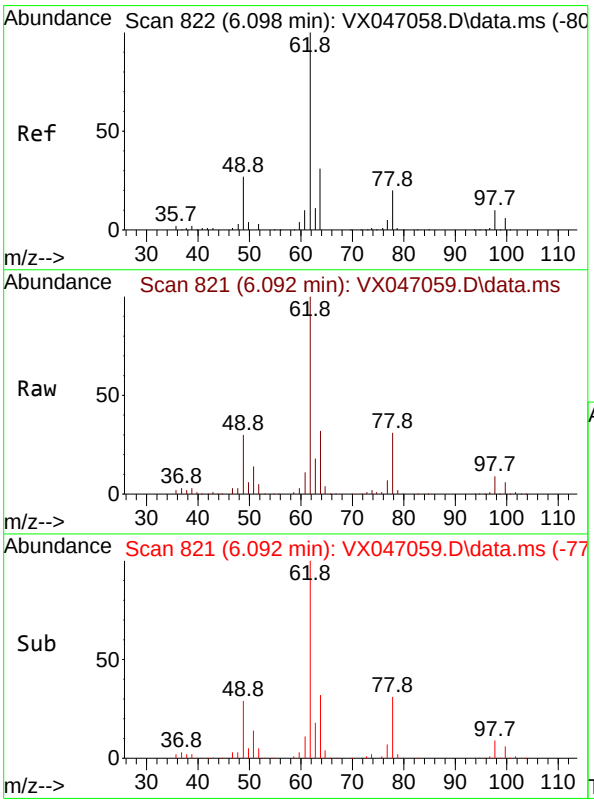
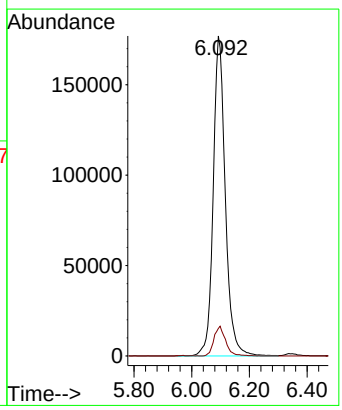
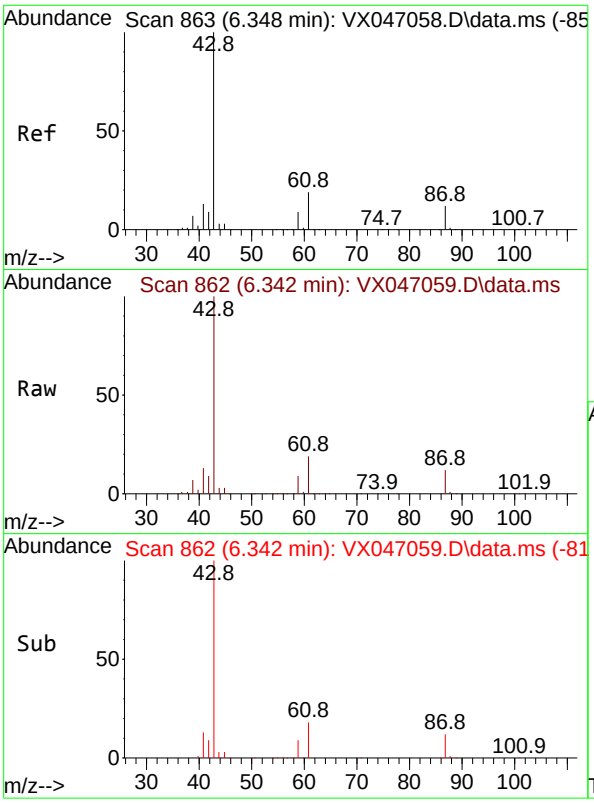


#42
1,2-Dichloroethane
Concen: 95.493 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 62 Resp: 514986

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.8

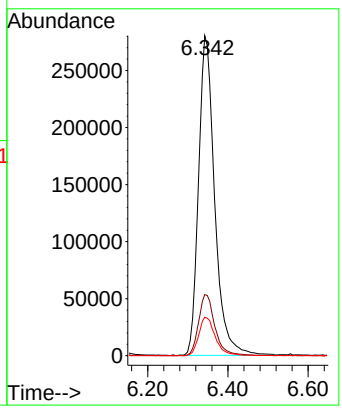




#43
Isopropyl Acetate
Concen: 103.002 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 43 Resp: 78274

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.1	22.7
87	12.3	9.7	14.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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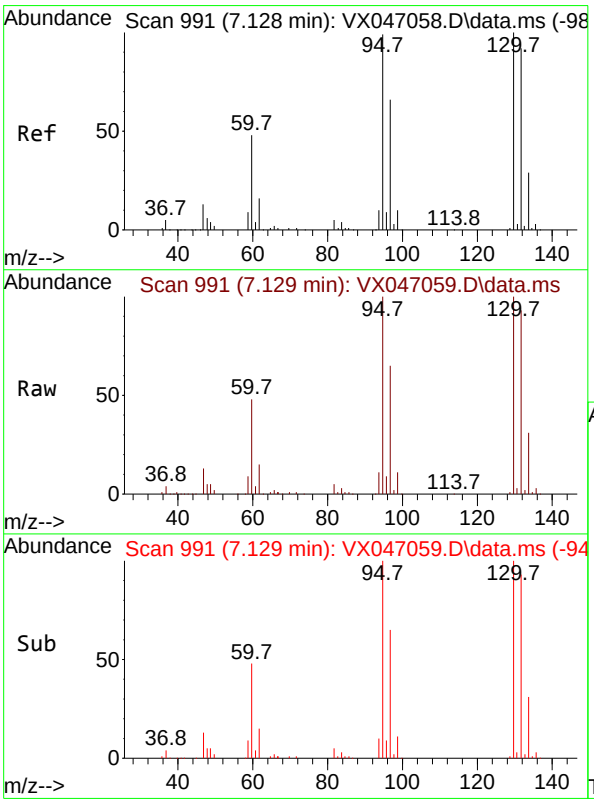
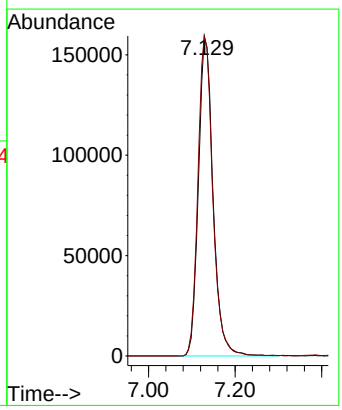
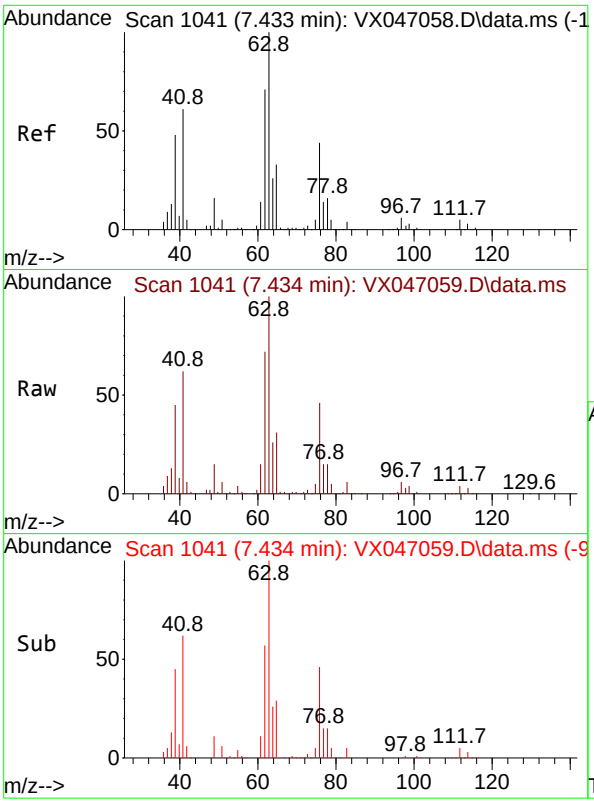


#44
Trichloroethene
Concen: 94.887 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:130 Resp: 372515

Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	198.6

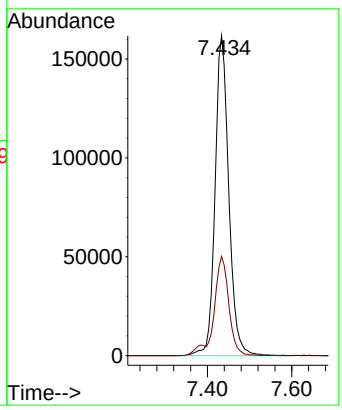




#45
1,2-Dichloropropane
Concen: 95.131 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 63 Resp: 36476

Ion	Ratio	Lower	Upper
63	100		
65	31.0	26.3	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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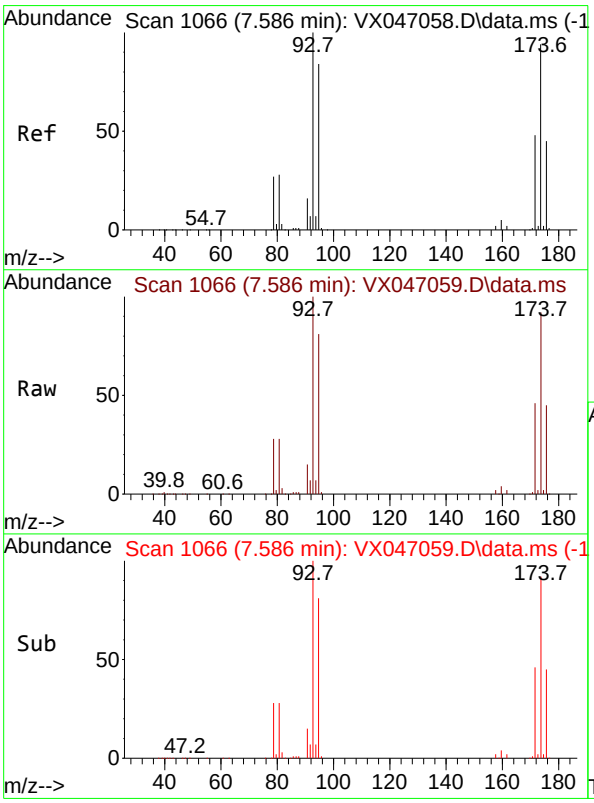
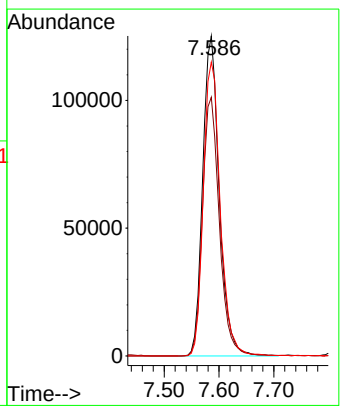
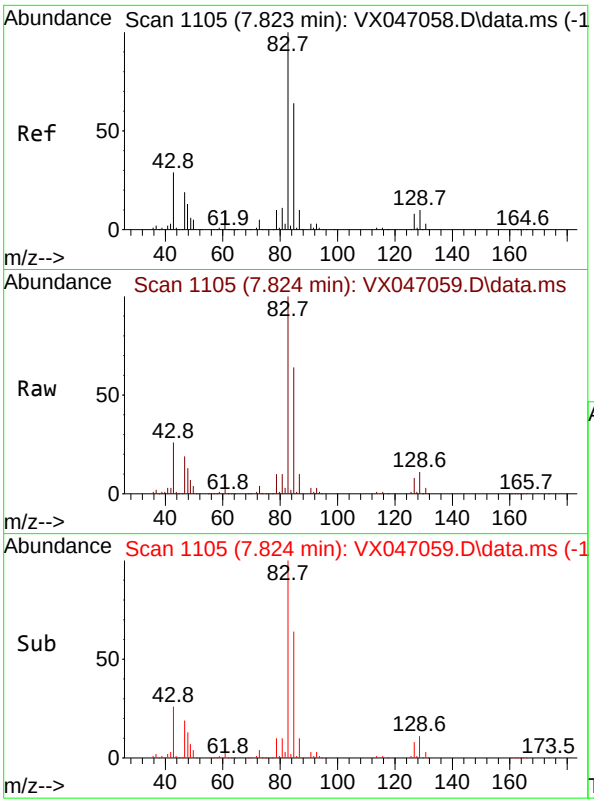


#46
Dibromomethane
Concen: 97.464 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 93 Resp: 262070

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.9	98.9
174	94.1	74.6	112.0

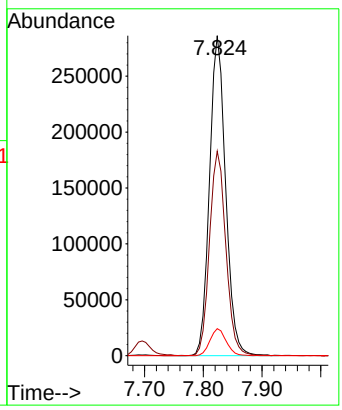




#47
Bromodichloromethane
Concen: 95.349 ug/l
RT: 7.824 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 83 Resp: 54571

Ion	Ratio	Lower	Upper
83	100		
85	63.9	49.9	74.9
127	8.4	6.6	10.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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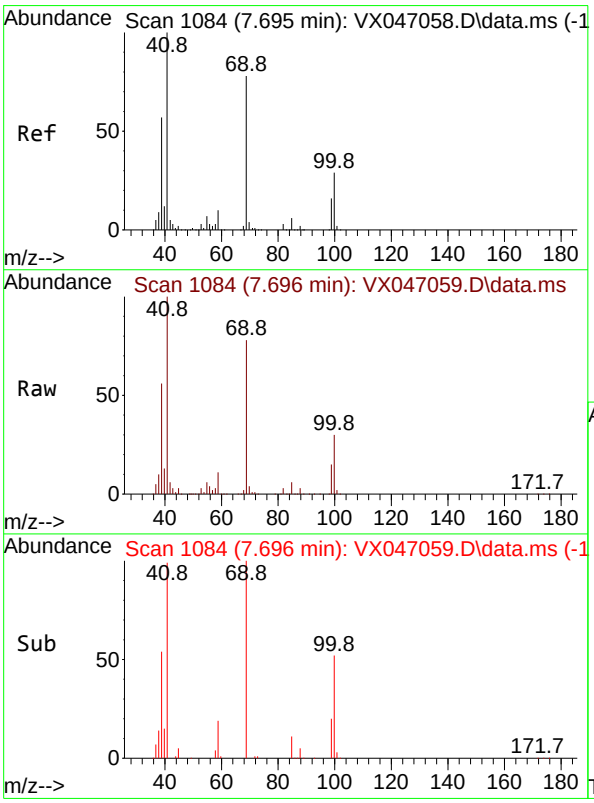
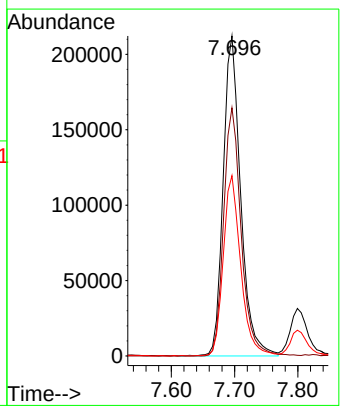
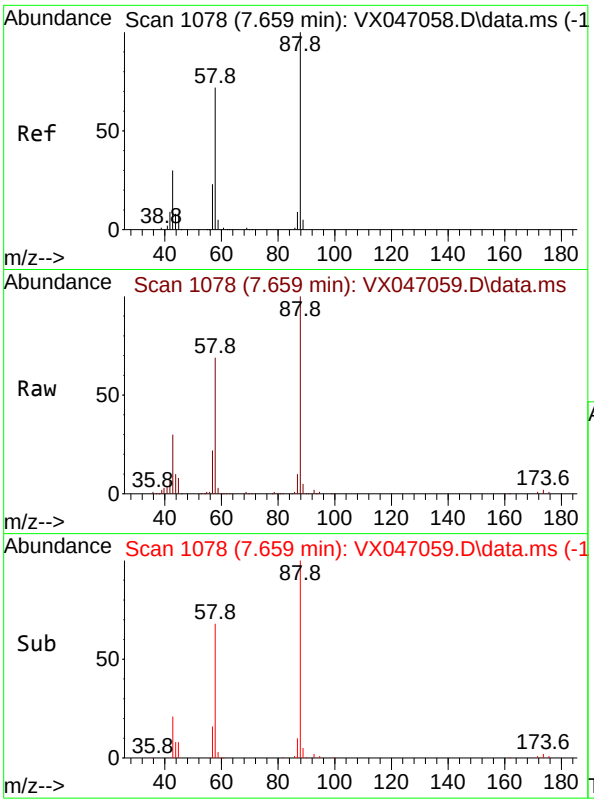


#48
Methyl methacrylate
Concen: 98.210 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 41 Resp: 406578

Ion	Ratio	Lower	Upper
41	100		
69	77.9	62.3	93.5
39	56.4	44.8	67.2





#49
1,4-Dioxane
Concen: 2074.633 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 88 Resp: 9768

Ion	Ratio	Lower	Upper
88	100		
43	39.0	33.6	50.4
58	73.2	58.8	88.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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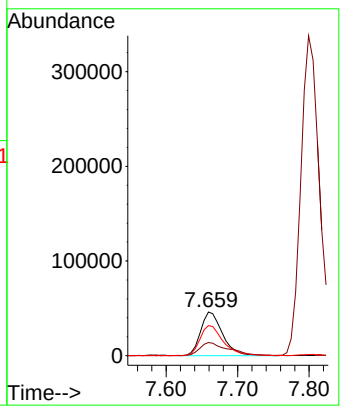
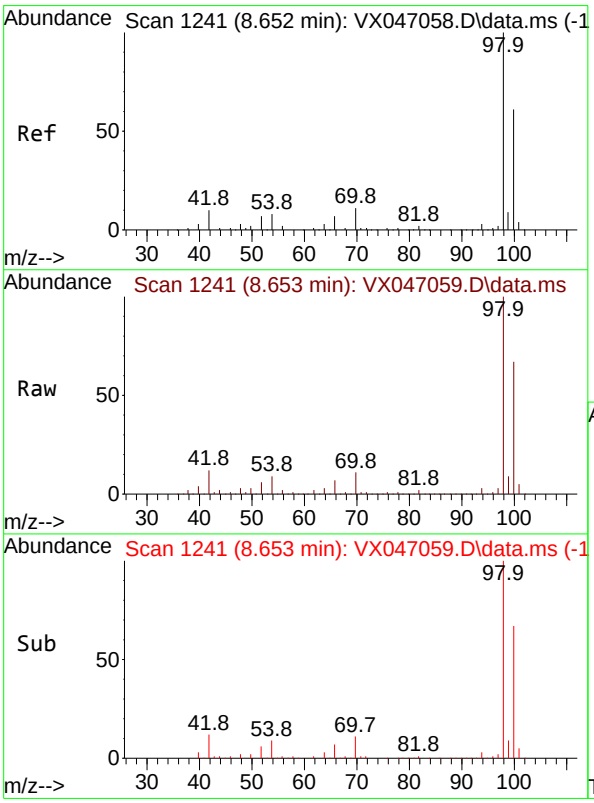
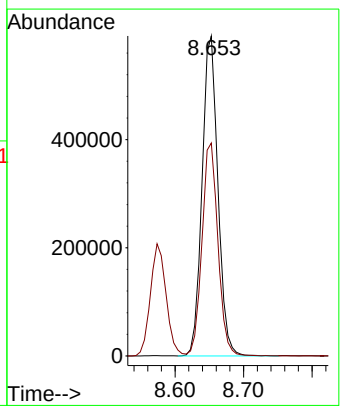


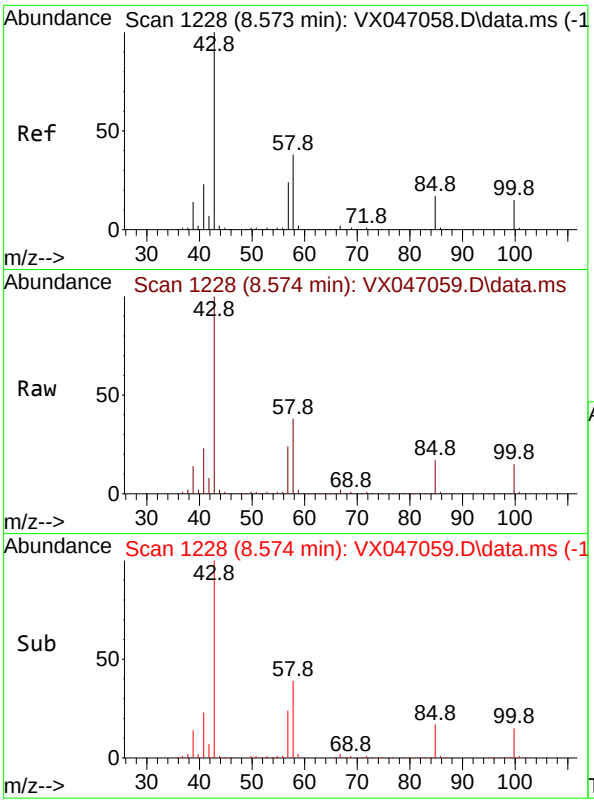


#50
Toluene-d8
Concen: 94.642 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 98 Resp: 951189

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.3	79.9

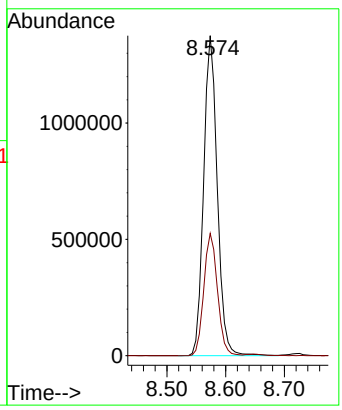




#51
4-Methyl-2-Pentanone
Concen: 490.000 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 43 Resp: 221329

Ion	Ratio	Lower	Upper
43	100		
58	38.3	30.6	45.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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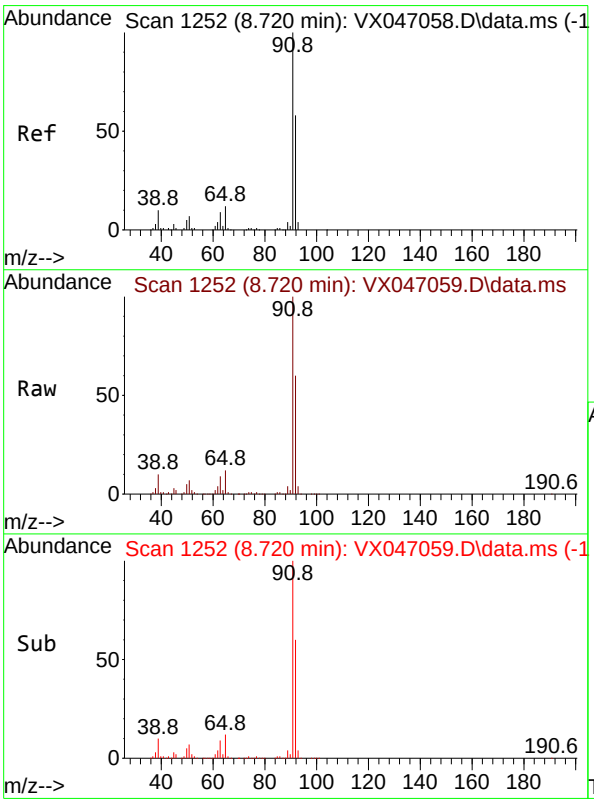
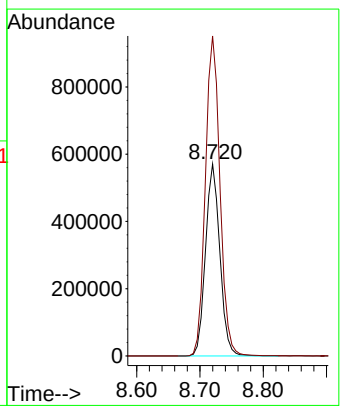
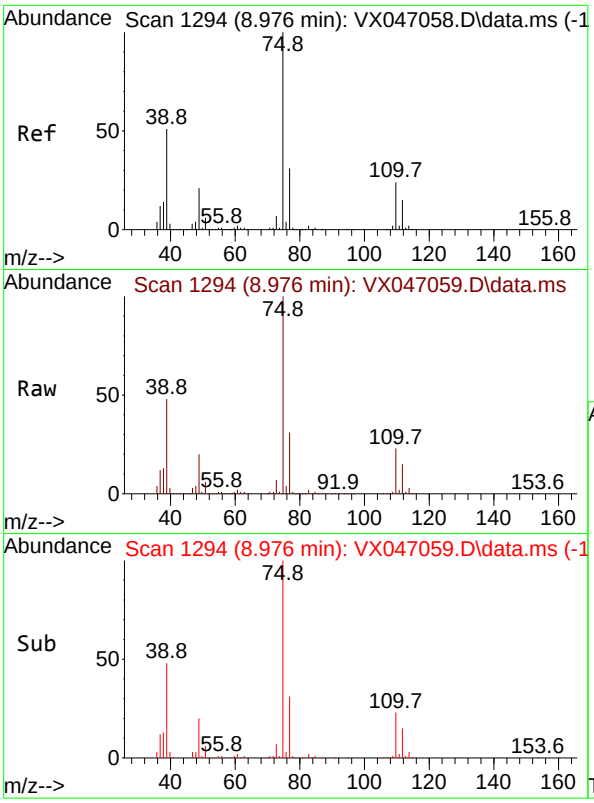


#52
Toluene
Concen: 95.648 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 92 Resp: 900379

Ion	Ratio	Lower	Upper
92	100		
91	169.7	137.9	206.9

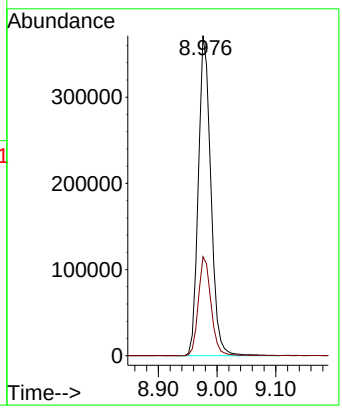




#53
t-1,3-Dichloropropene
Concen: 101.846 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 75 Resp: 55043

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.5	36.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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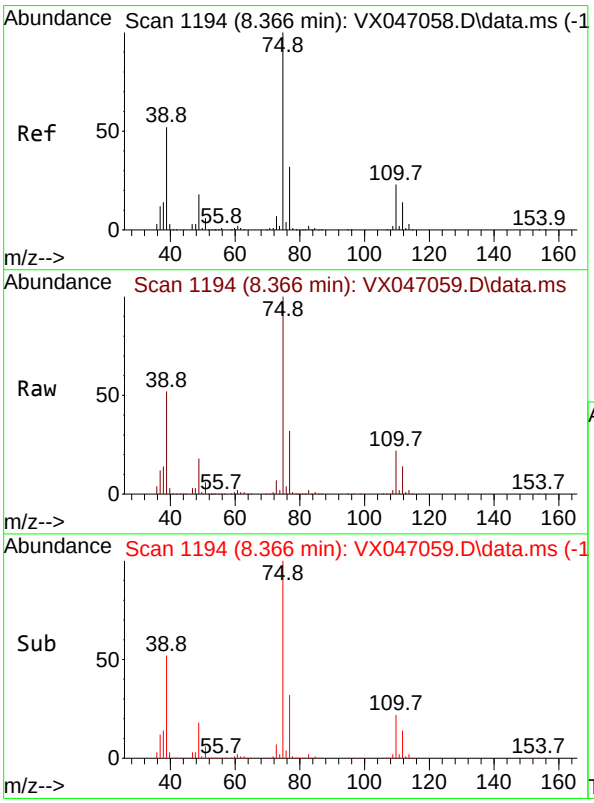
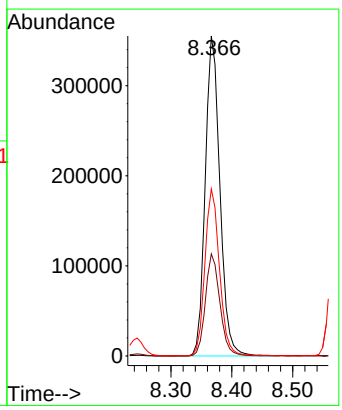
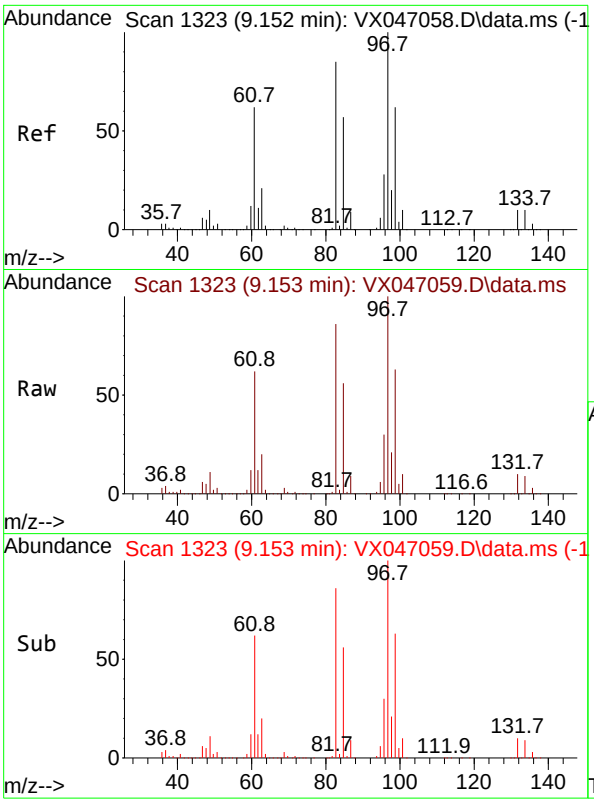


#54
cis-1,3-Dichloropropene
Concen: 100.700 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 75 Resp: 595662

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.4	38.0
39	52.1	41.8	62.6

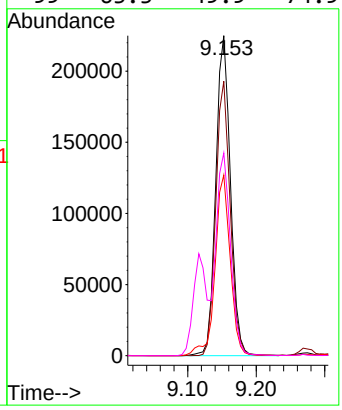




#55
1,1,2-Trichloroethane
Concen: 94.482 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 97 Resp: 33355

Ion	Ratio	Lower	Upper
97	100		
83	85.8	68.0	102.0
85	56.5	45.2	67.8
99	63.3	49.9	74.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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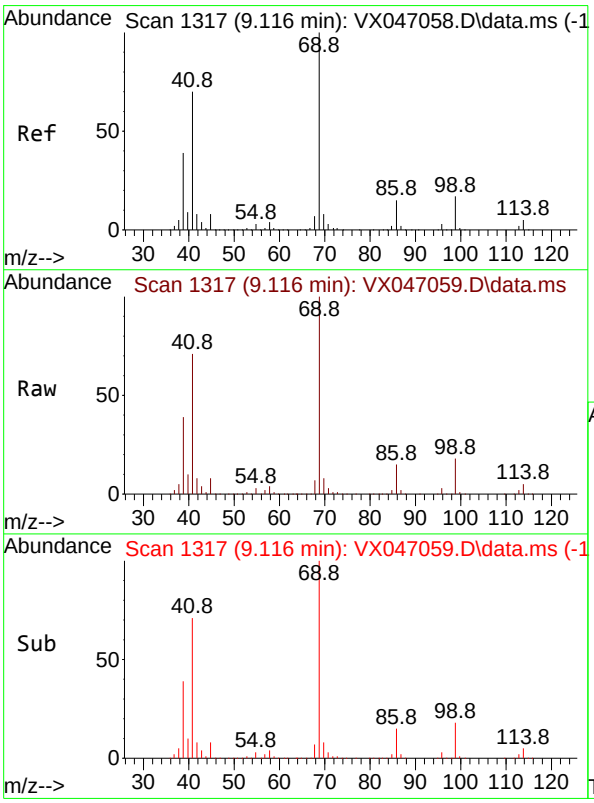
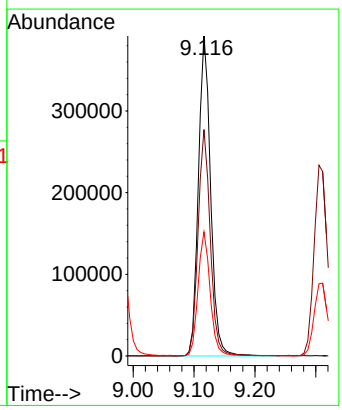
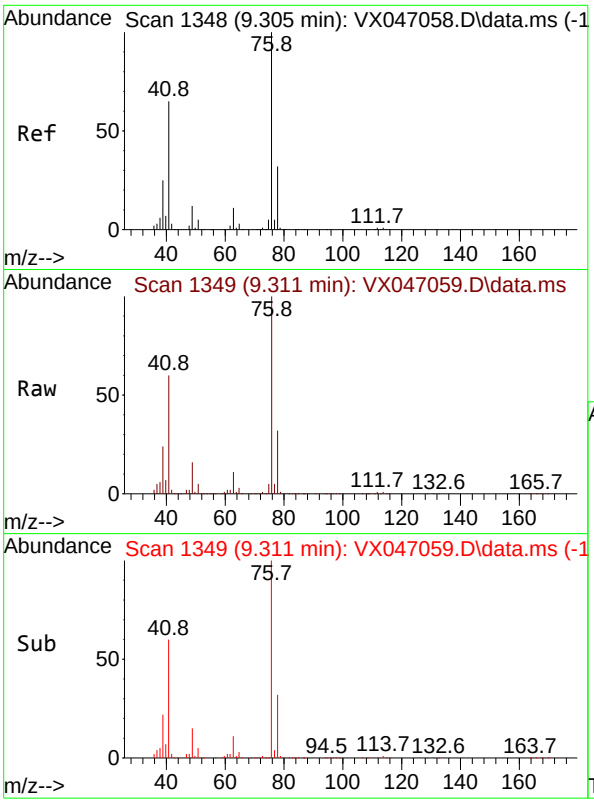


#56
Ethyl methacrylate
Concen: 104.649 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 69 Resp: 546929

Ion	Ratio	Lower	Upper
69	100		
41	70.7	56.1	84.1
39	38.2	31.1	46.7

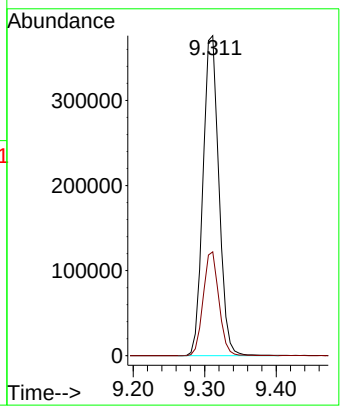




#57
1,3-Dichloropropane
Concen: 94.454 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 76 Resp: 57952

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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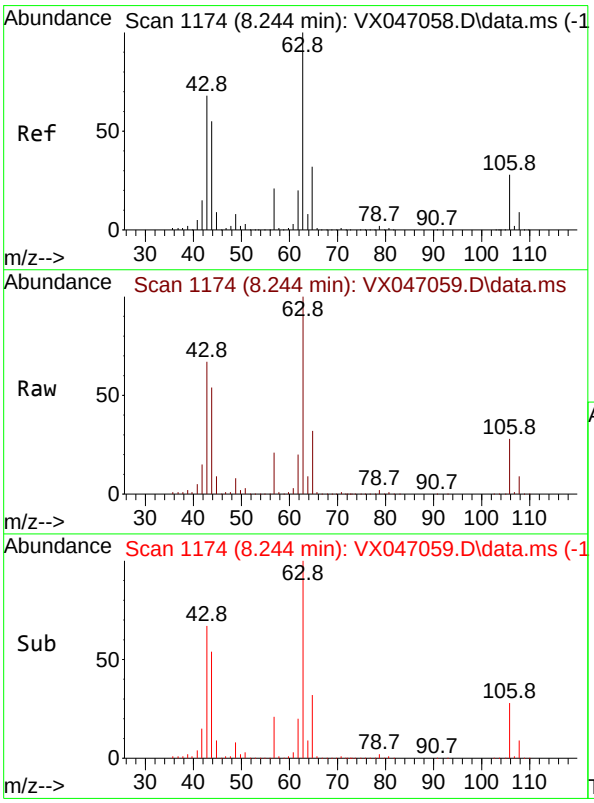
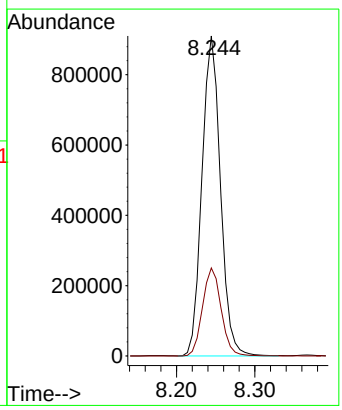
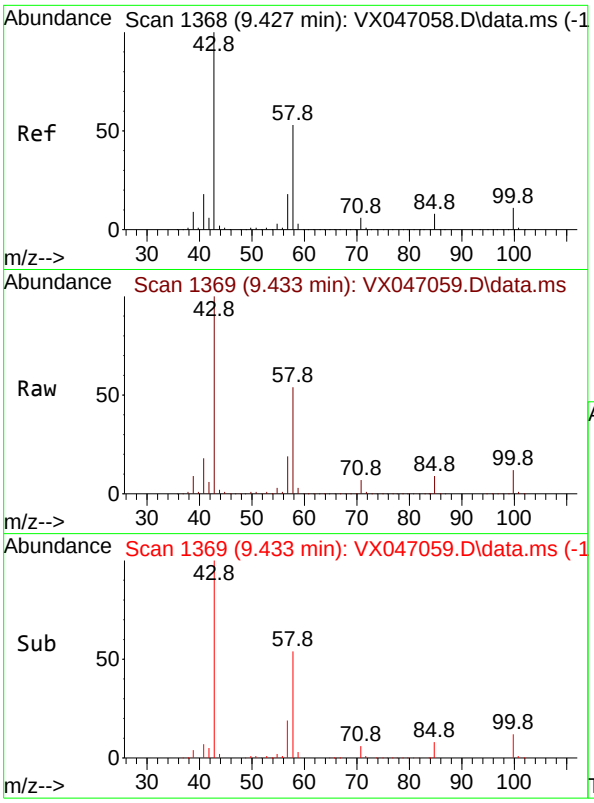


#58
2-Chloroethyl Vinyl ether
Concen: 512.296 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 63 Resp: 1489901

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.2	33.4

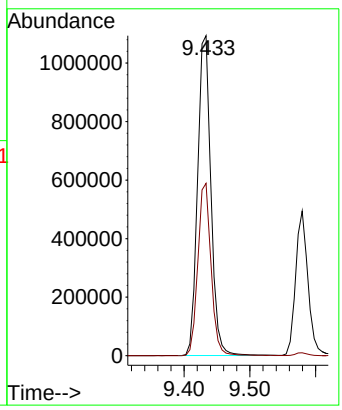




#59
2-Hexanone
Concen: 514.162 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 43 Resp: 153439

Ion	Ratio	Lower	Upper
43	100		
58	53.4	26.5	79.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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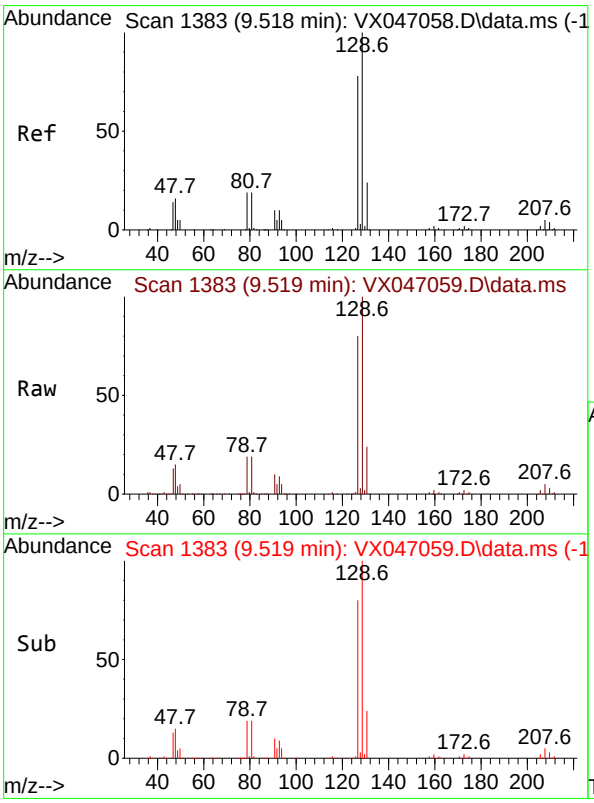
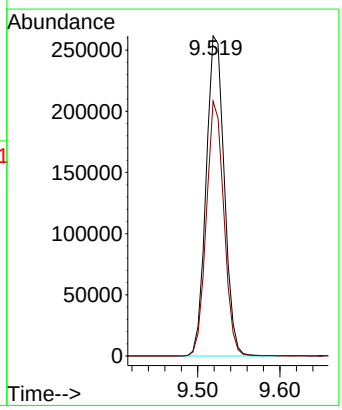
Supervised By :Mahesh Dadoda 07/22/2025

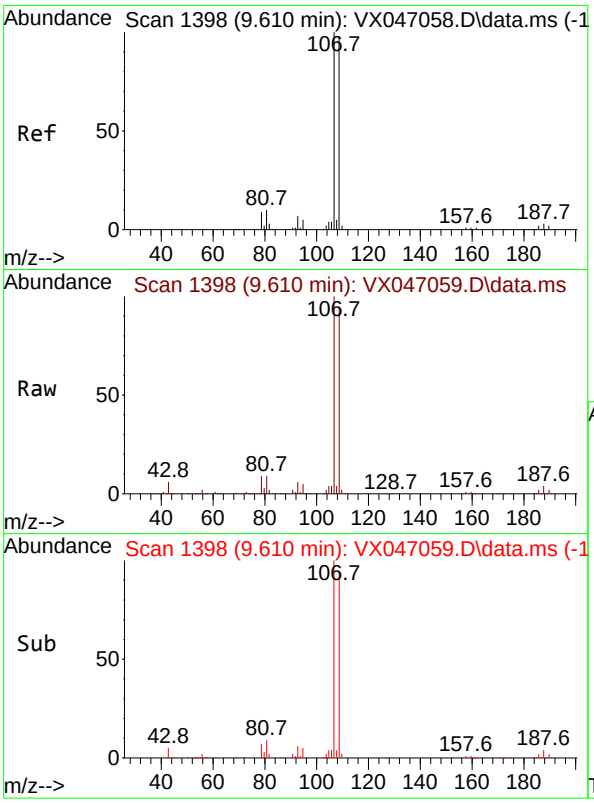


#60
Dibromochloromethane
Concen: 96.718 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:129 Resp: 400453

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.8

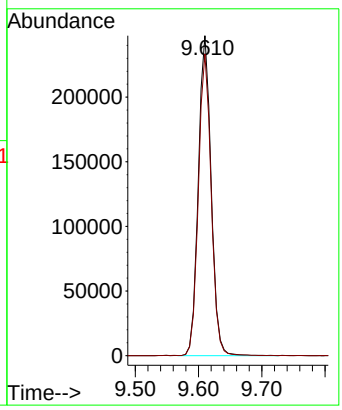




#61
1,2-Dibromoethane
Concen: 94.909 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:107 Resp: 35034

Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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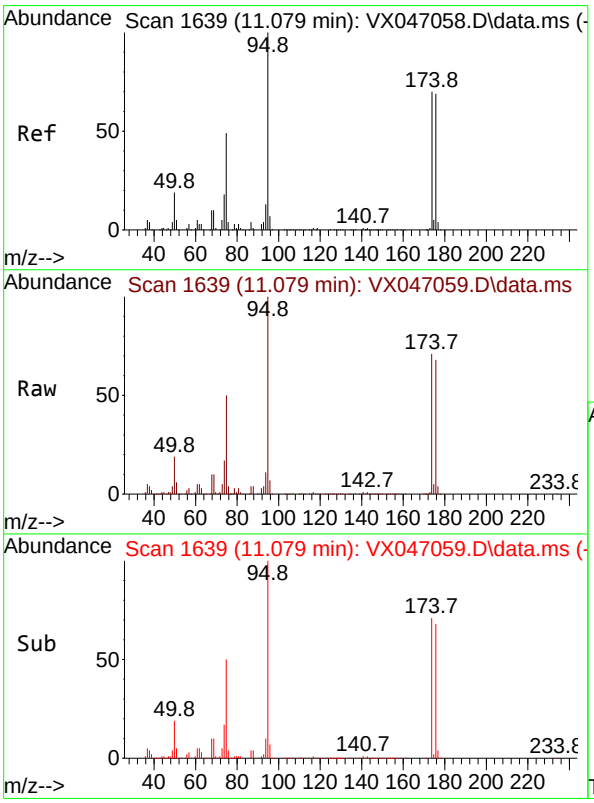
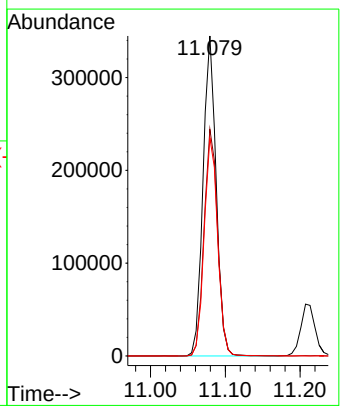
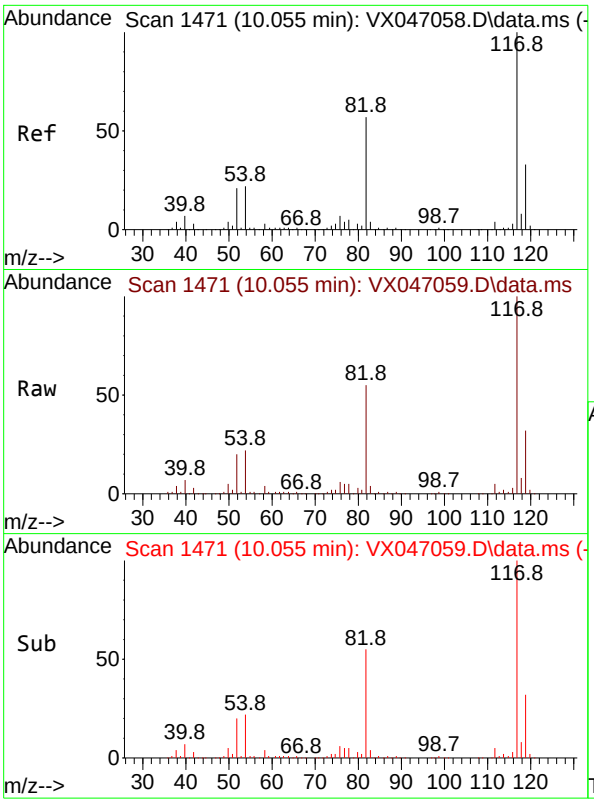


#62
4-Bromofluorobenzene
Concen: 96.692 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 95 Resp: 418790

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	144.6
176	70.3	0.0	139.6

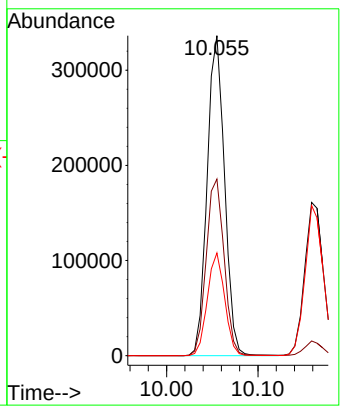




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:117 Resp: 443709

Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.4	68.2
119	32.1	26.1	39.1



Instrument :
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ClientSampleId :
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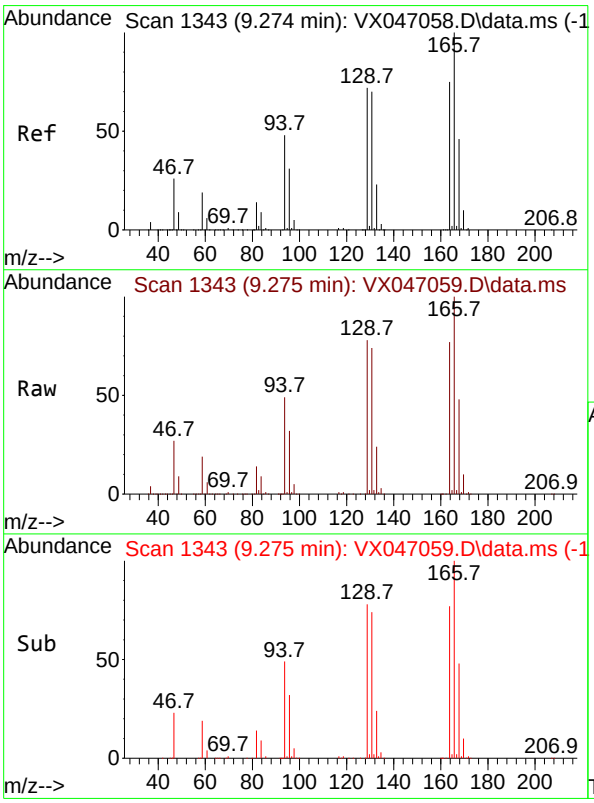
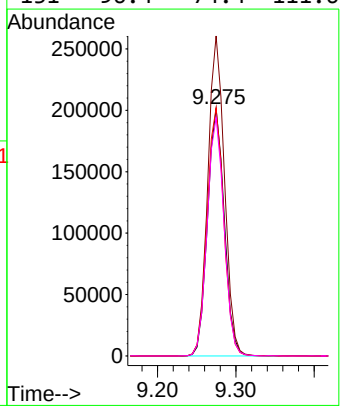
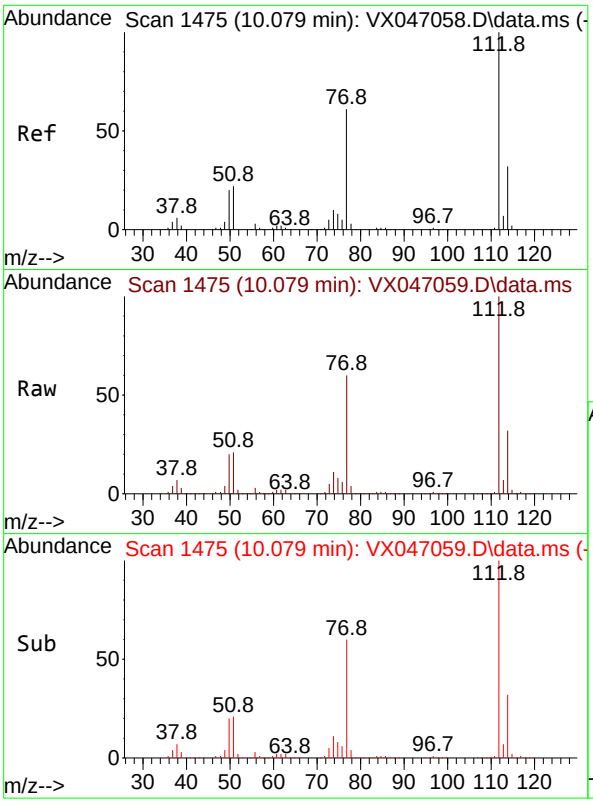


#64
Tetrachloroethene
Concen: 93.490 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:164 Resp: 299042

Ion	Ratio	Lower	Upper
164	100		
166	129.5	106.2	159.4
129	100.5	76.6	114.8
131	96.4	74.4	111.6





#65
Chlorobenzene
Concen: 95.134 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:112 Resp: 98888

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.8	38.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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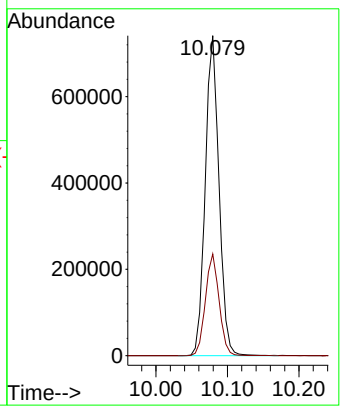
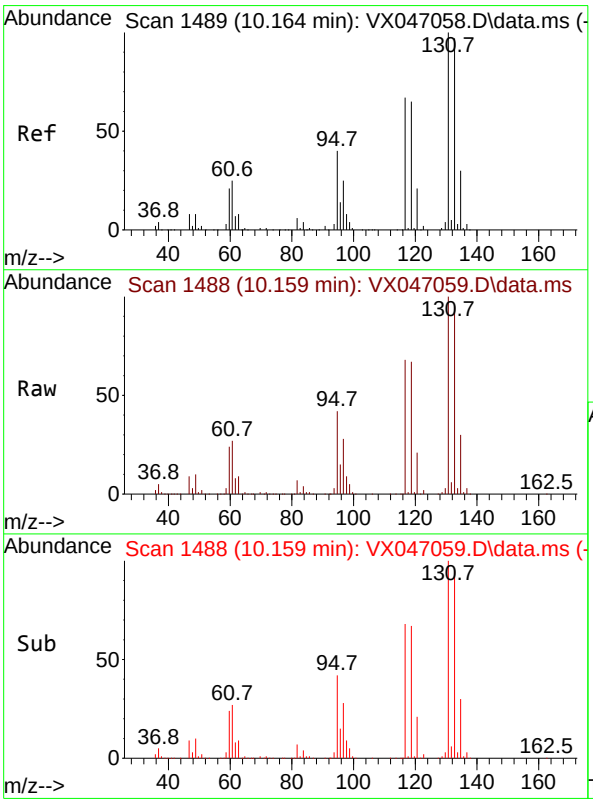
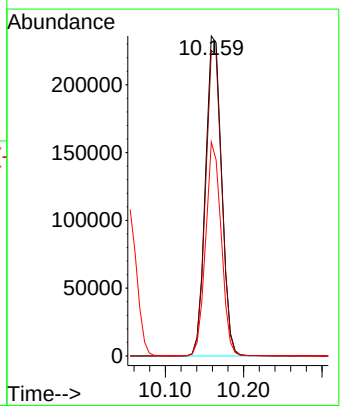


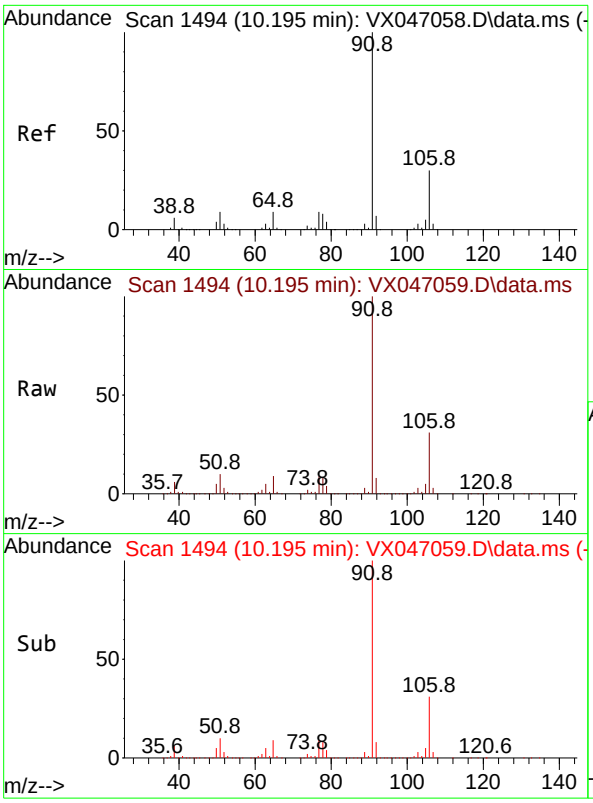


#66
1,1,1,2-Tetrachloroethane
Concen: 96.621 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:131 Resp: 338141

Ion	Ratio	Lower	Upper
131	100		
133	95.7	48.4	145.3
119	64.2	32.4	97.0

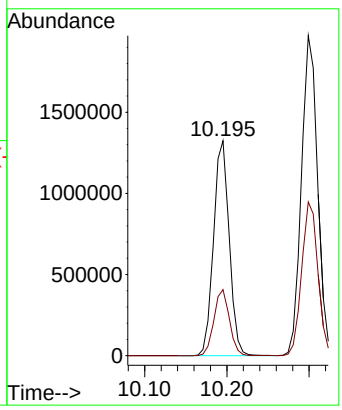




#67
Ethyl Benzene
Concen: 96.425 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 91 Resp: 175248

Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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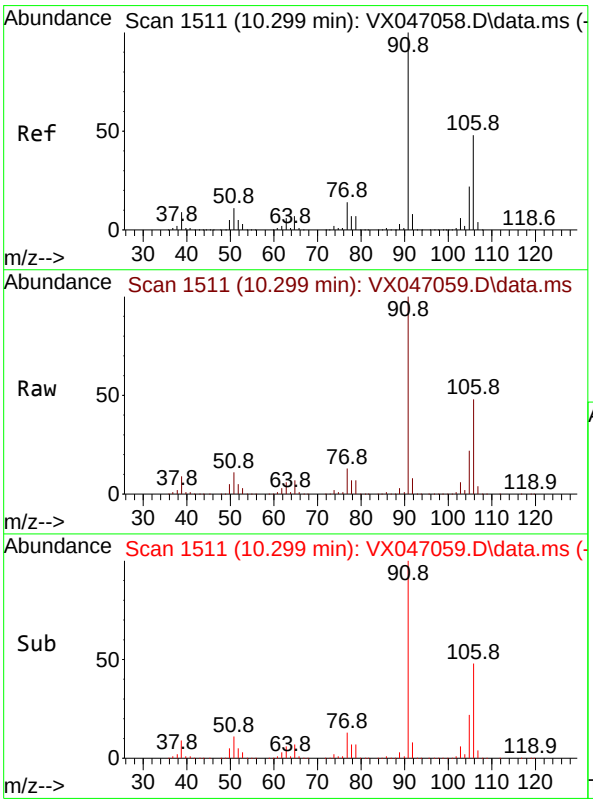
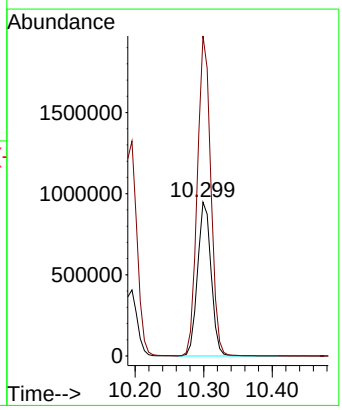
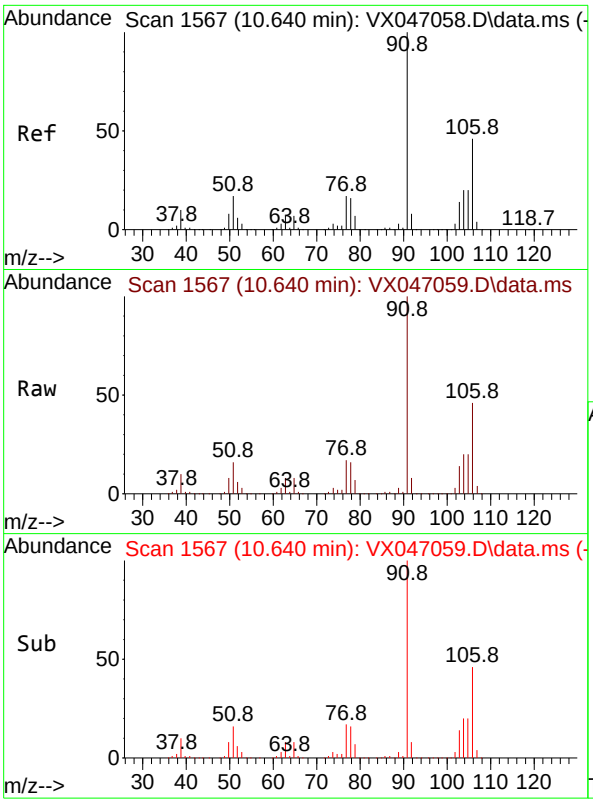


#68
m/p-Xylenes
Concen: 191.494 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:106 Resp: 1302405

Ion	Ratio	Lower	Upper
106	100		
91	206.9	167.4	251.0

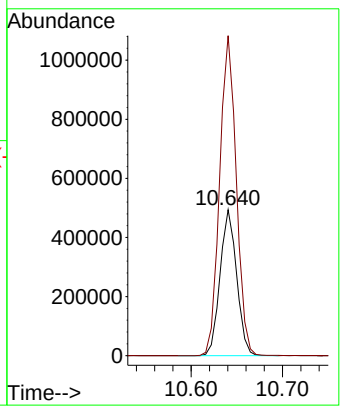




#69
o-Xylene
Concen: 96.565 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:106 Resp: 62479

Ion	Ratio	Lower	Upper
106	100		
91	219.8	110.3	331.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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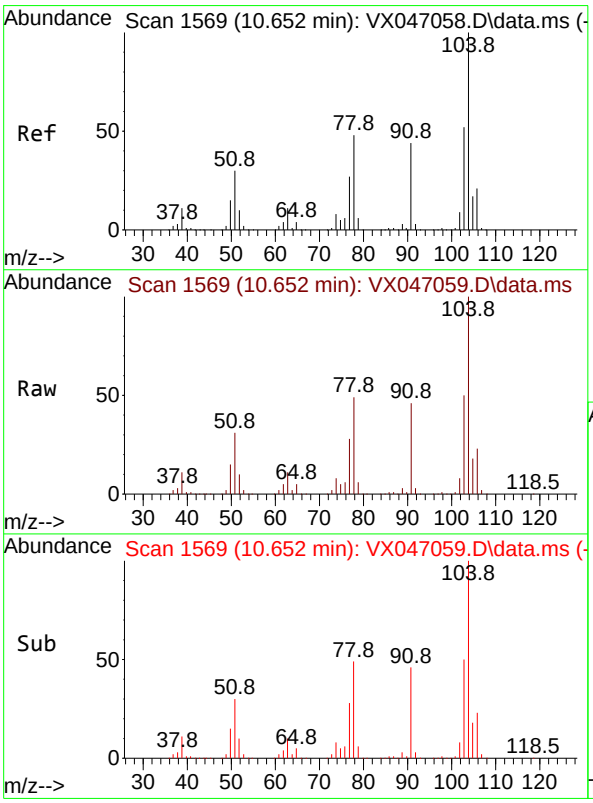
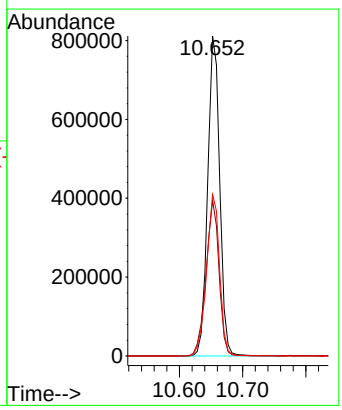
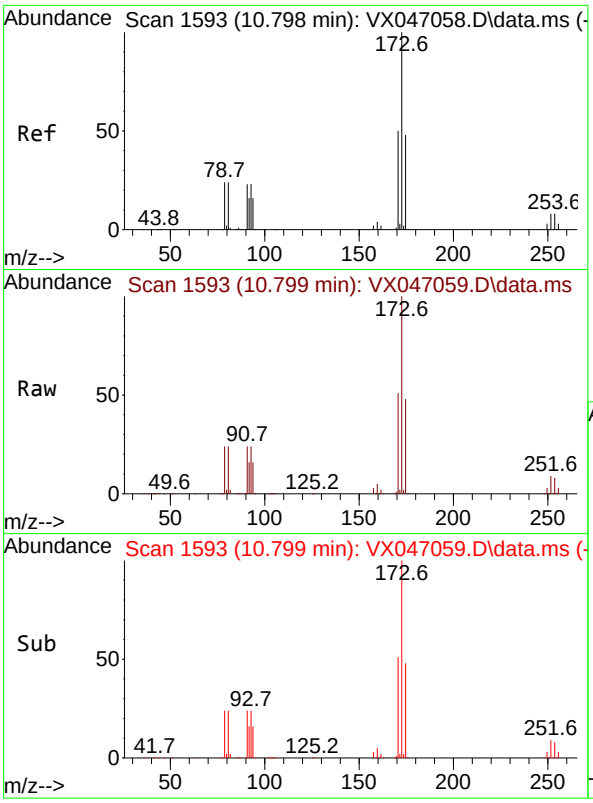


#70
Styrene
Concen: 96.694 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:104 Resp: 1072801

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.0	63.0
103	54.7	43.8	65.6





#71
Bromoform
Concen: 97.473 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:173 Resp: 25912

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.2	72.6
254	0.1	0.1	0.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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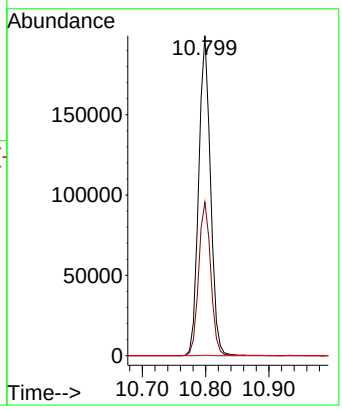
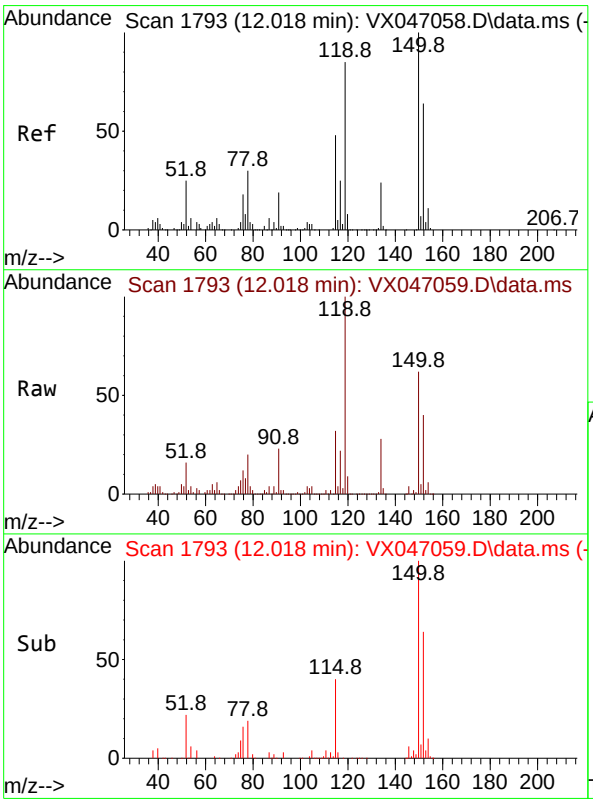
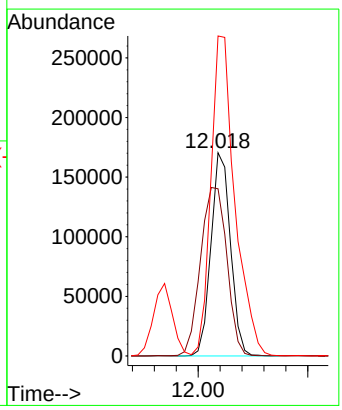


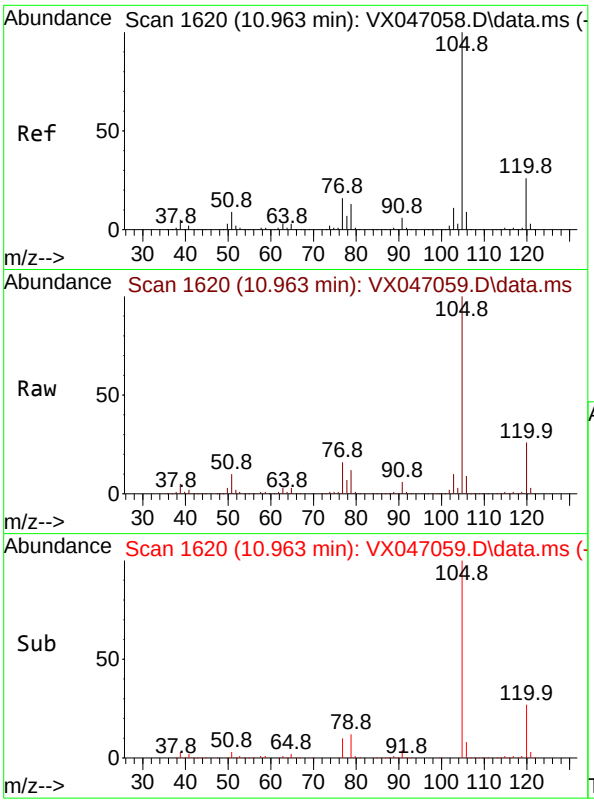


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:152 Resp: 210644

Ion	Ratio	Lower	Upper
152	100		
115	112.2	45.6	136.7
150	193.3	0.0	354.6

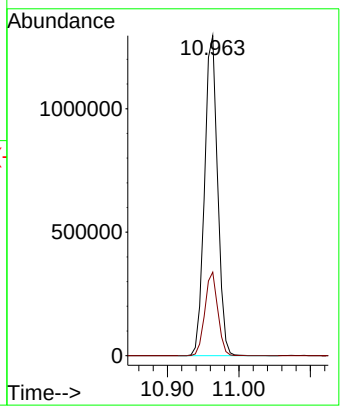




#73
Isopropylbenzene
Concen: 99.034 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:105 Resp: 164580

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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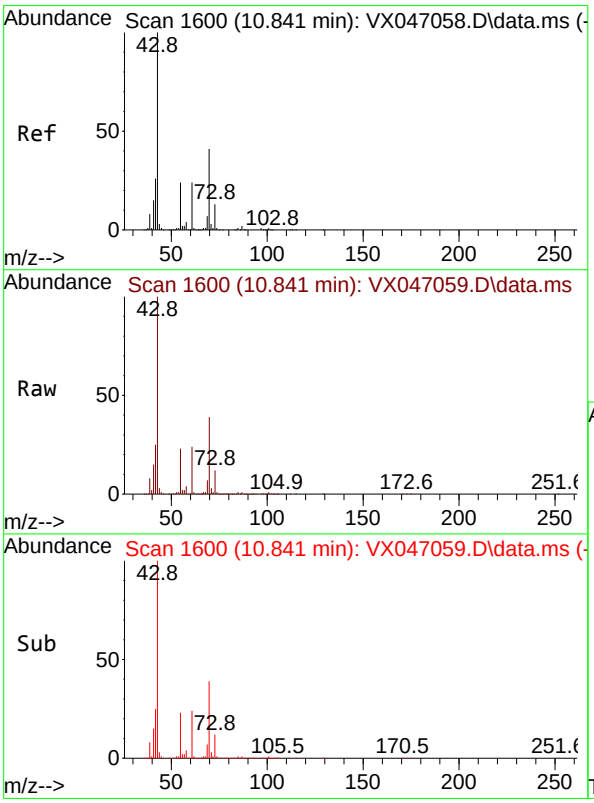
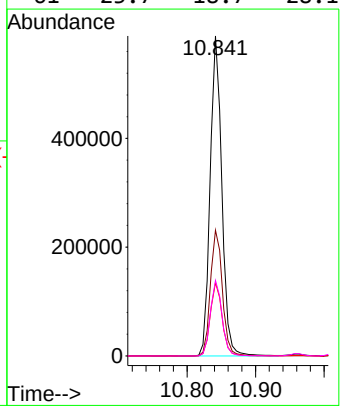
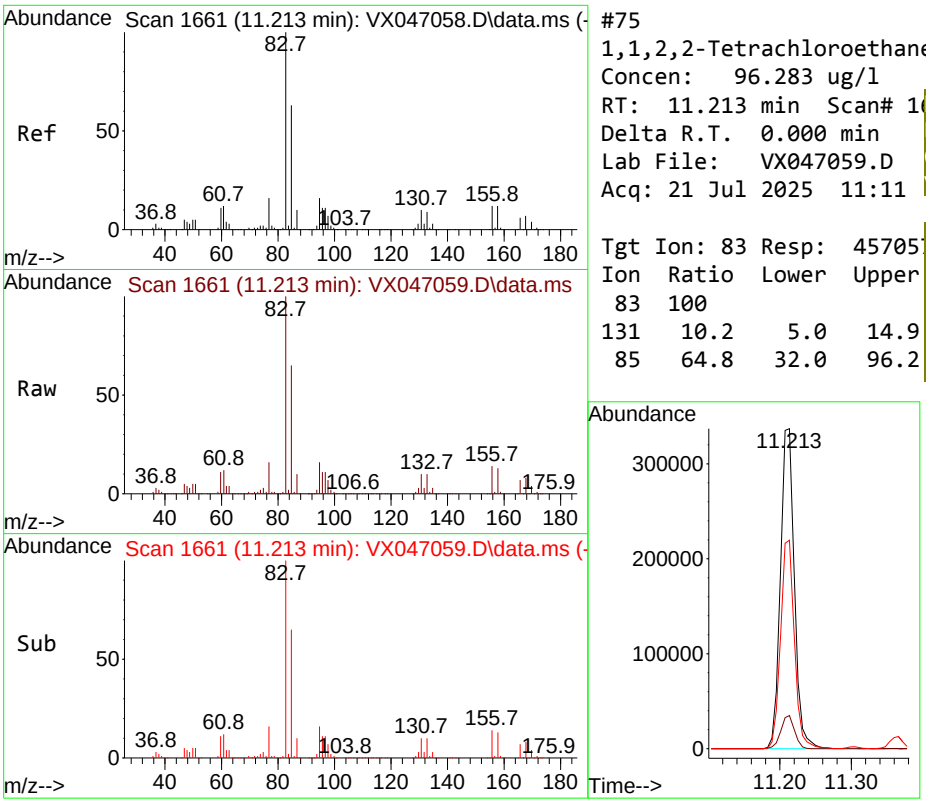


#74
N-amyl acetate
Concen: 105.369 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 43 Resp: 698465

Ion	Ratio	Lower	Upper
43	100		
70	40.5	32.3	48.5
55	23.3	18.9	28.3
61	23.7	18.7	28.1





#75
1,1,2,2-Tetrachloroethane
Concen: 96.283 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 83 Resp: 45705

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.0	14.9
85	64.8	32.0	96.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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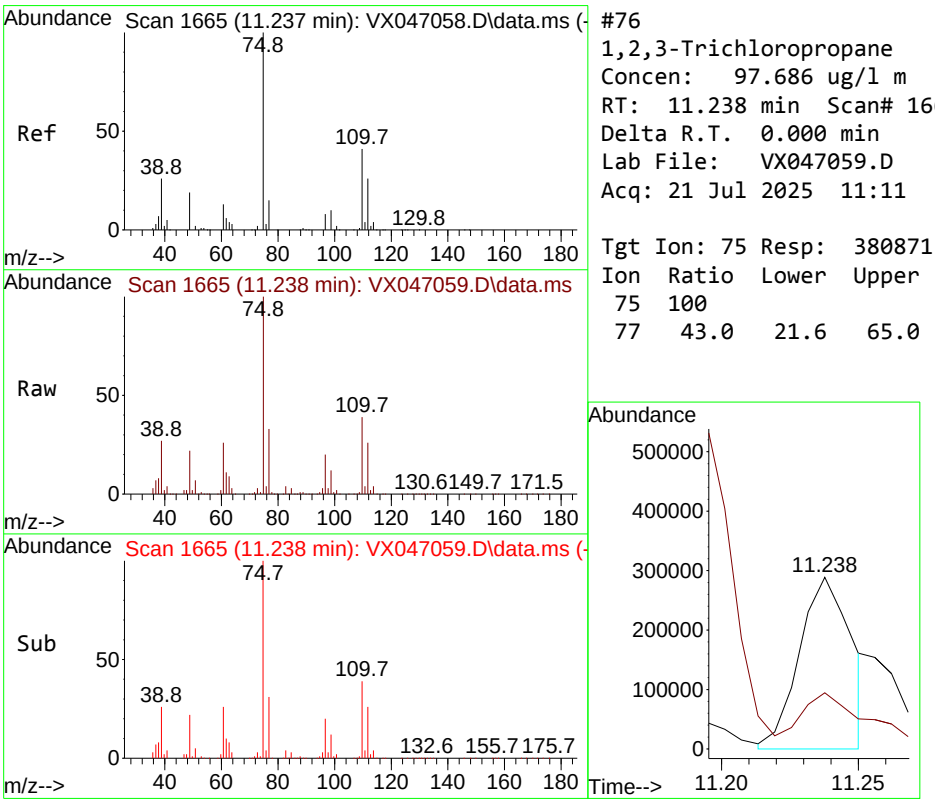
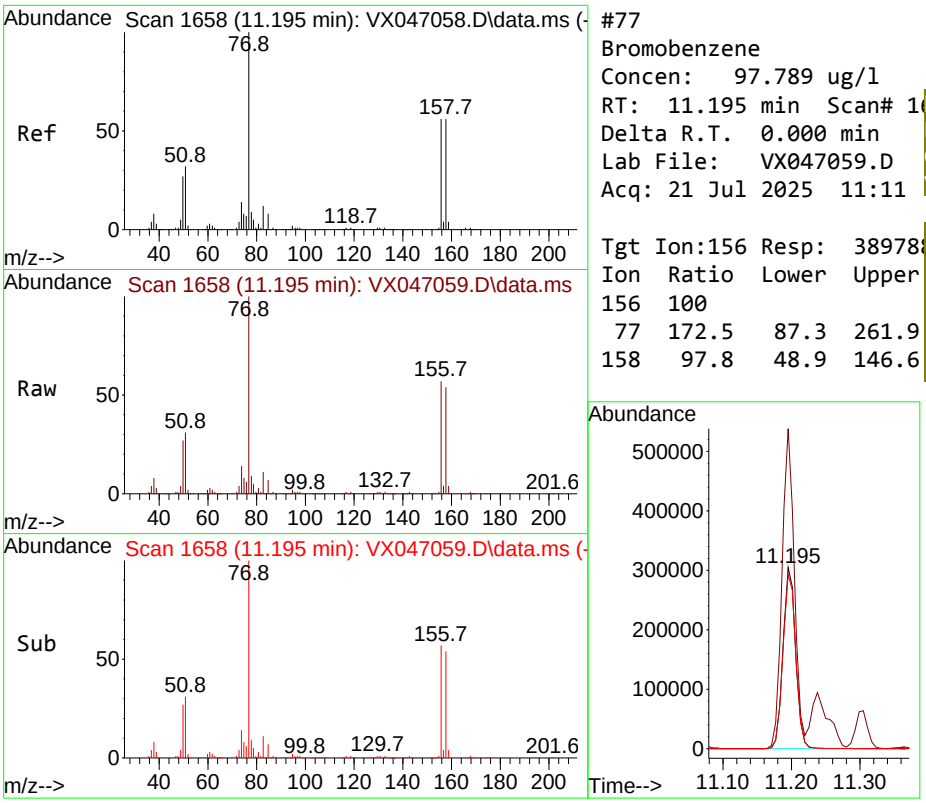


#76
1,2,3-Trichloropropane
Concen: 97.686 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 75 Resp: 380871

Ion	Ratio	Lower	Upper
75	100		
77	43.0	21.6	65.0



#77
Bromobenzene
Concen: 97.789 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:156 Resp: 38978

Ion	Ratio	Lower	Upper
156	100		
77	172.5	87.3	261.9
158	97.8	48.9	146.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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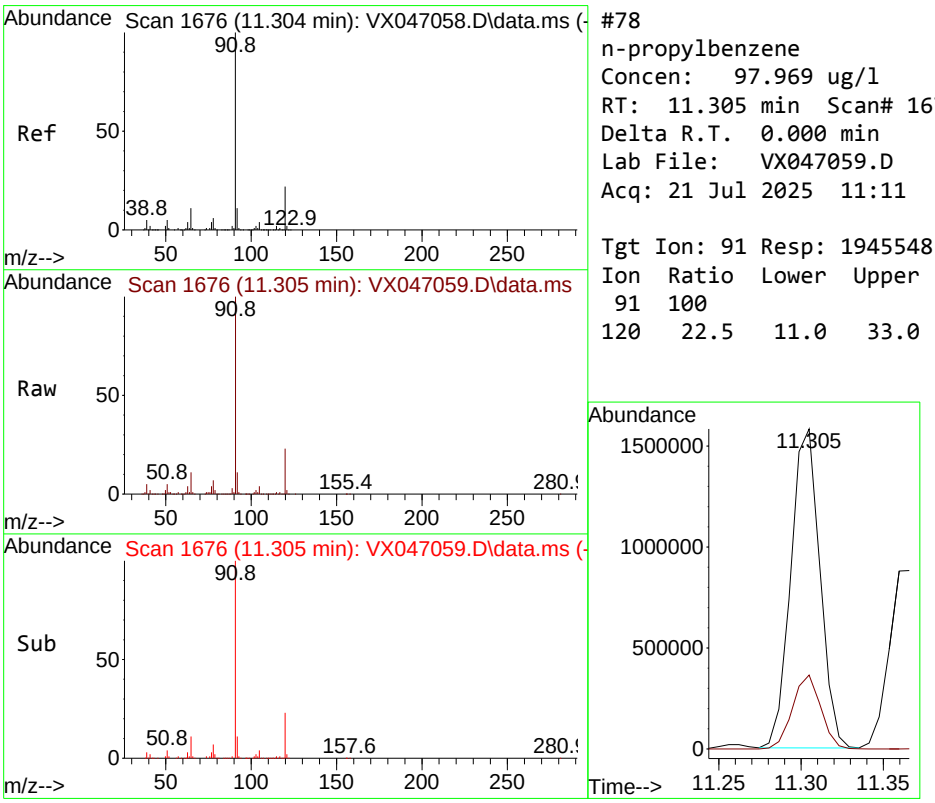
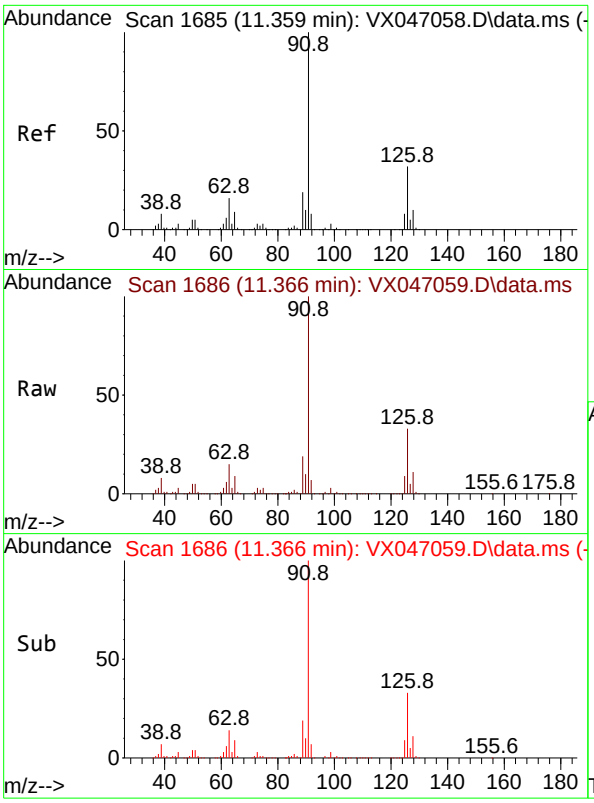


#78
n-propylbenzene
Concen: 97.969 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 91 Resp: 1945548

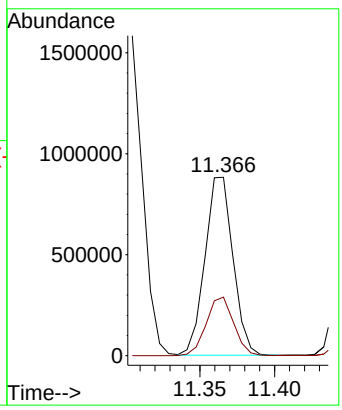
Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.0	33.0



#79
2-Chlorotoluene
Concen: 96.889 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 91 Resp: 115016

Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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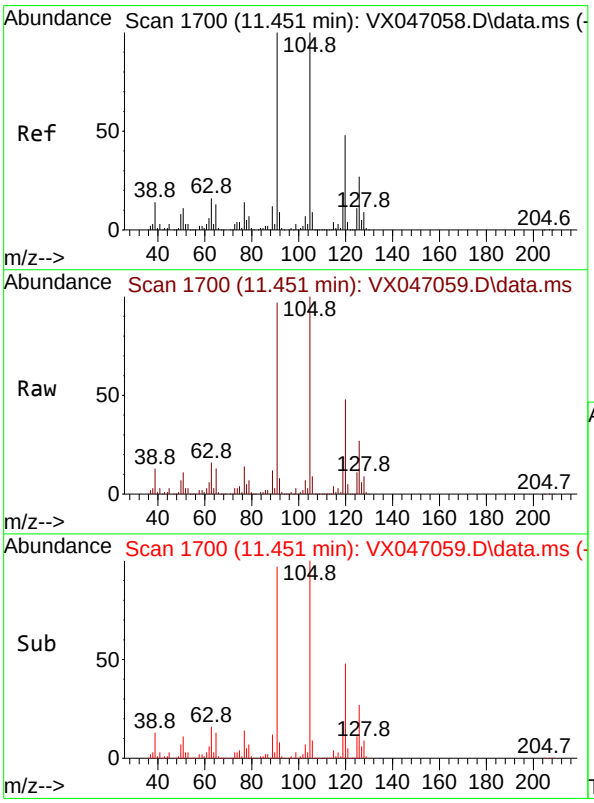
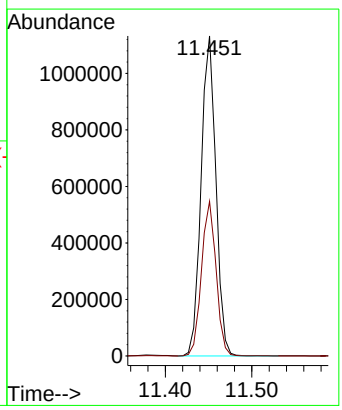
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

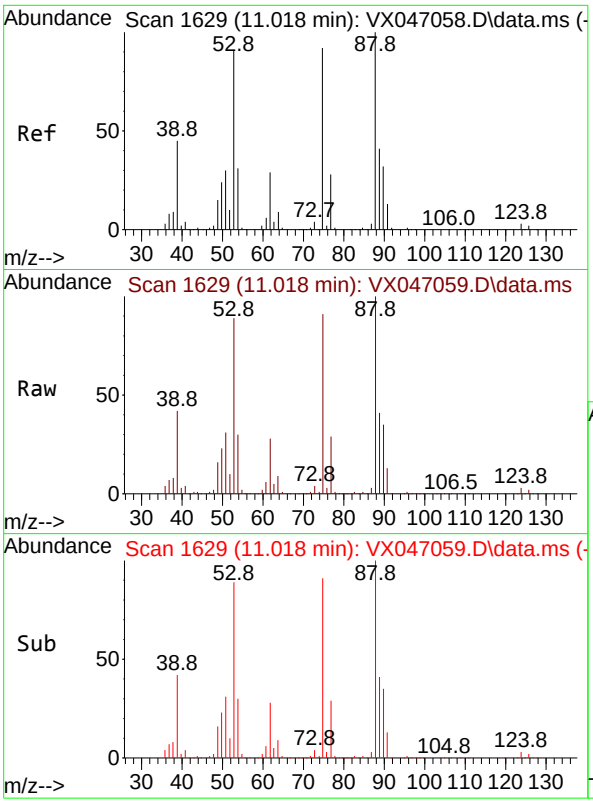


#80
1,3,5-Trimethylbenzene
Concen: 97.612 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:105 Resp: 1340151

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.8	71.5





#81
trans-1,4-Dichloro-2-butene
Concen: 104.426 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

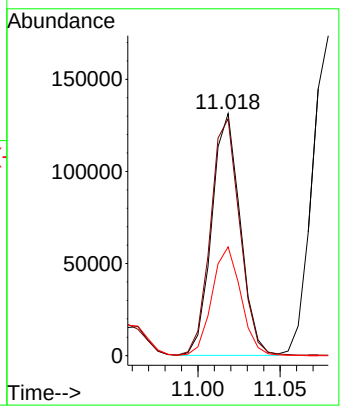
Tgt Ion: 75 Resp: 15803

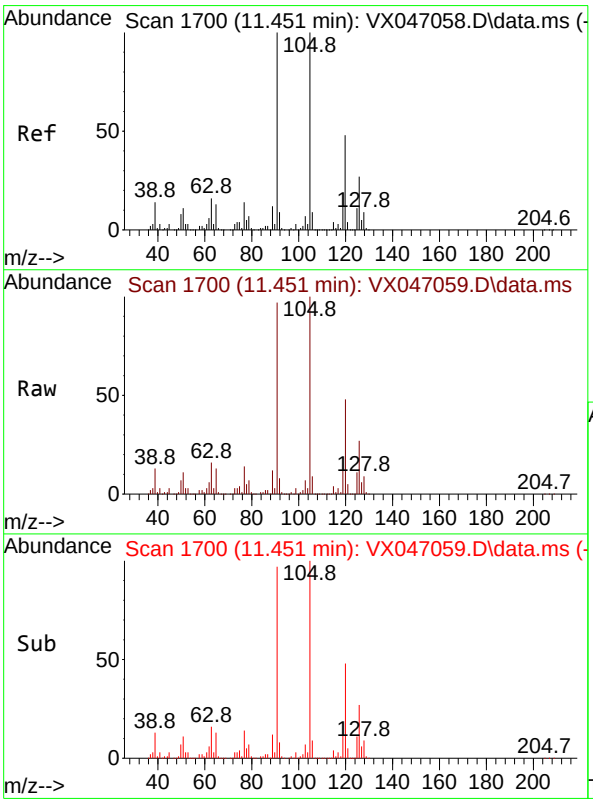
Ion	Ratio	Lower	Upper
75	100		
53	101.5	84.2	126.4
89	45.8	36.0	54.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

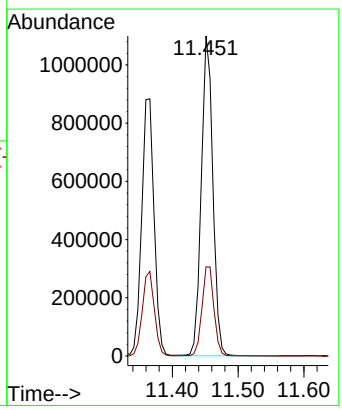


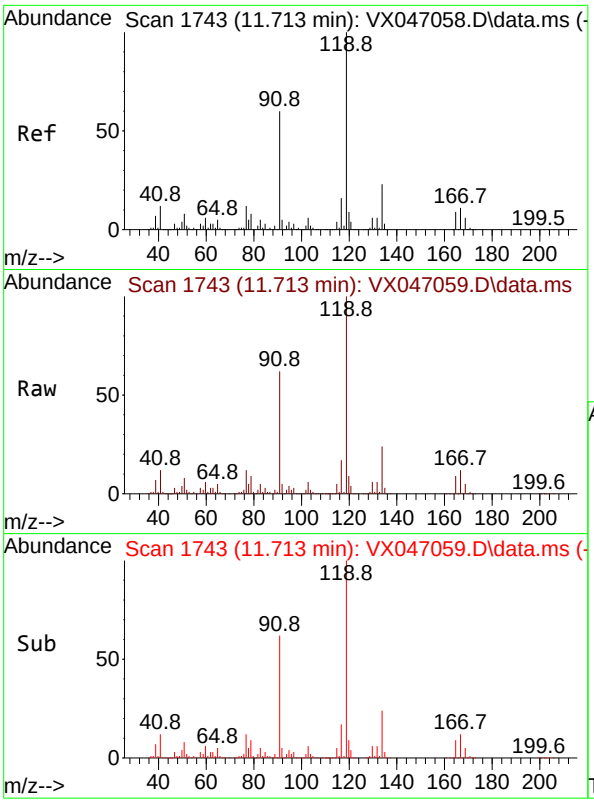


#82
4-Chlorotoluene
Concen: 96.766 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 91 Resp: 1340796

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.1	42.3

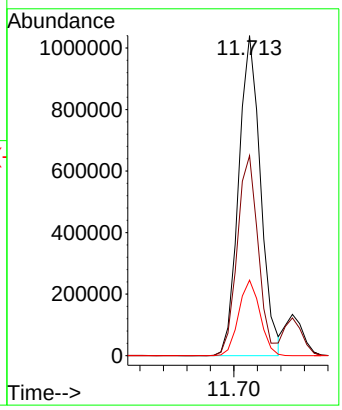




#83
tert-Butylbenzene
Concen: 97.765 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:119 Resp: 134720

Ion	Ratio	Lower	Upper
119	100		
91	60.5	29.6	88.8
134	23.0	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/22/2025
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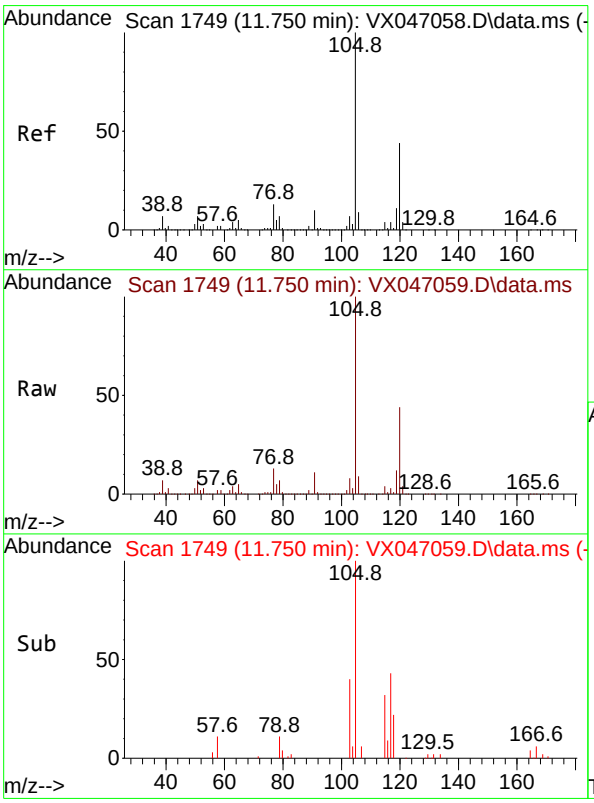
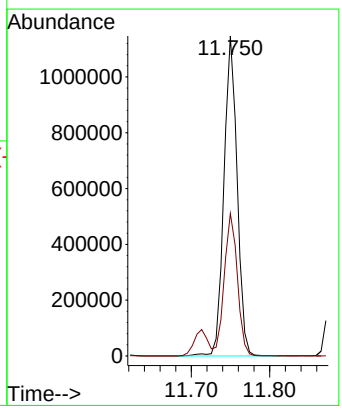
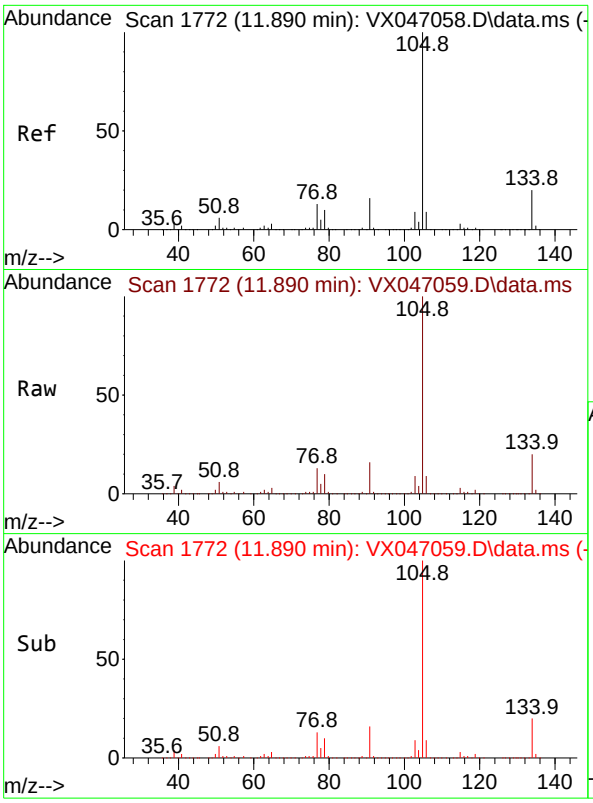


#84
1,2,4-Trimethylbenzene
Concen: 98.362 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:105 Resp: 1346982

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.0	66.0

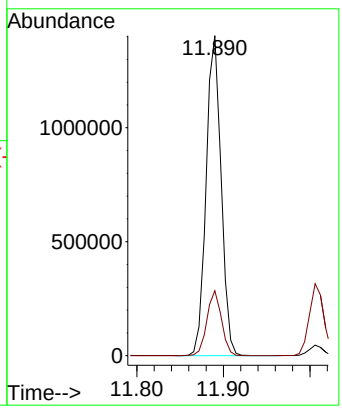




#85
sec-Butylbenzene
Concen: 97.702 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:105 Resp: 168220

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/22/2025
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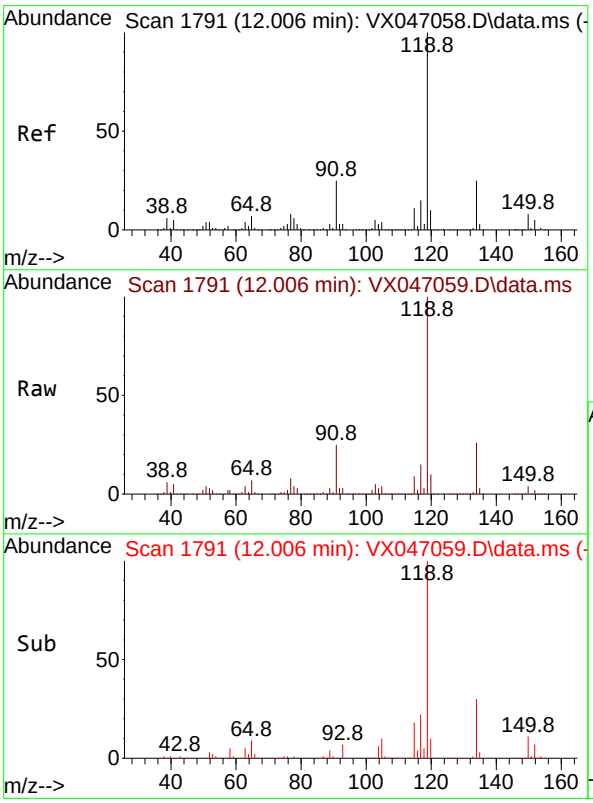
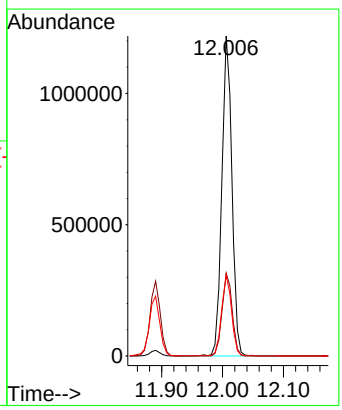
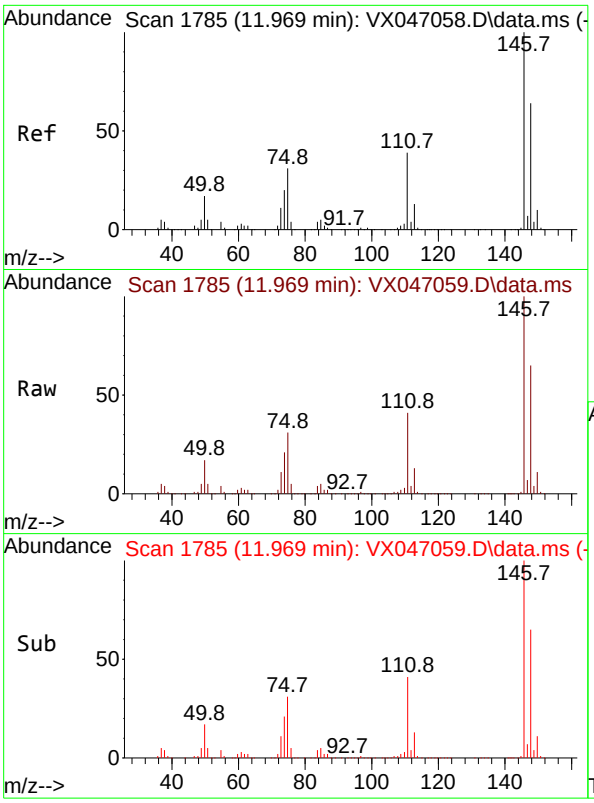


#86
p-Isopropyltoluene
Concen: 98.379 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:119 Resp: 1404678

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	25.0	12.4	37.4

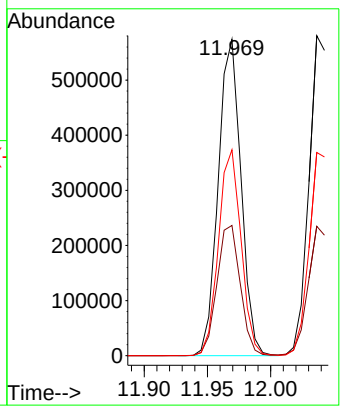




#87
1,3-Dichlorobenzene
Concen: 94.782 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:146 Resp: 71785

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.0	63.0
148	64.6	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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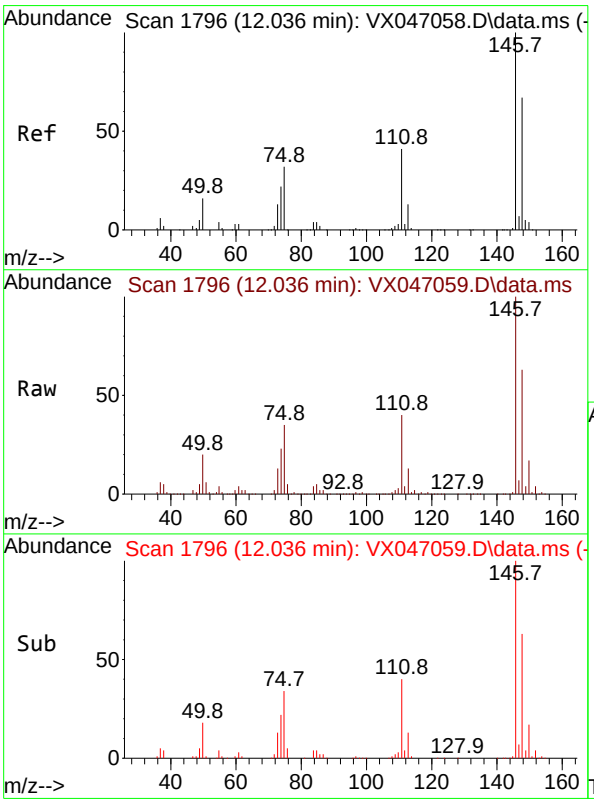
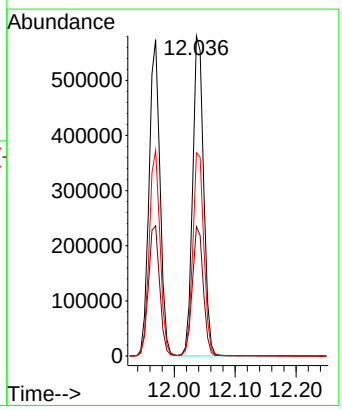
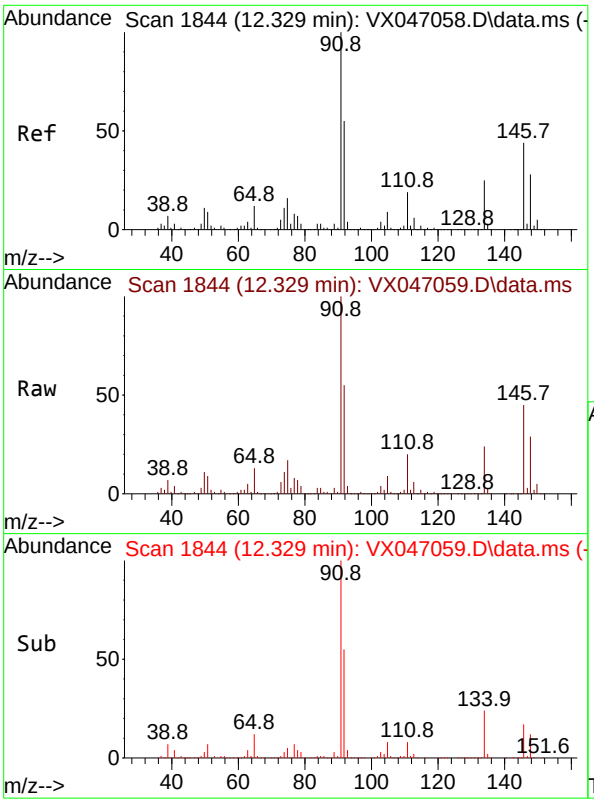


#88
1,4-Dichlorobenzene
Concen: 94.617 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:146 Resp: 726014

Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.6	61.9
148	64.2	33.0	98.9

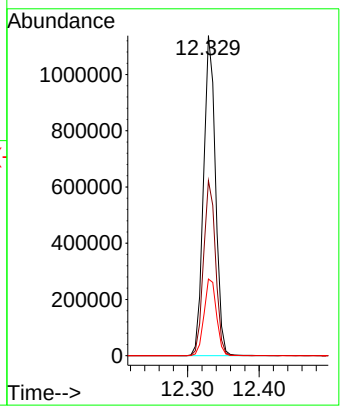




#89
n-Butylbenzene
Concen: 98.826 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 91 Resp: 132327

Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.5	82.5
134	25.0	12.8	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
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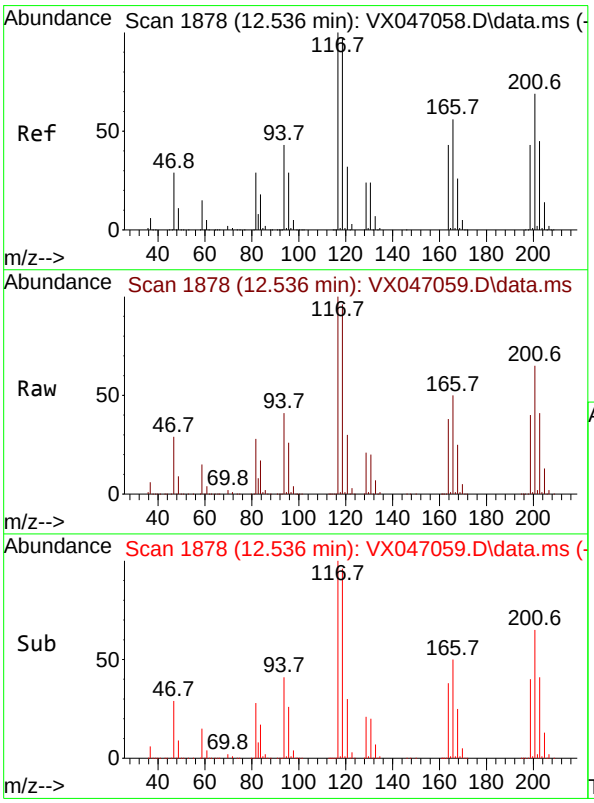
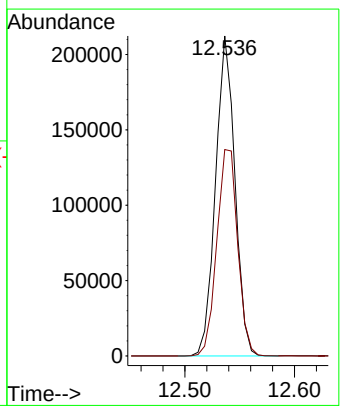
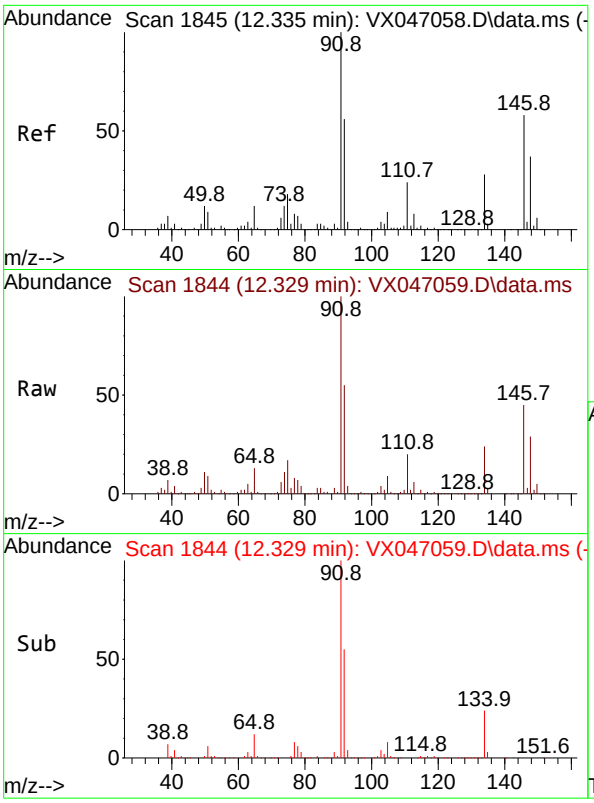


#90
Hexachloroethane
Concen: 102.152 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:117 Resp: 260929

Ion	Ratio	Lower	Upper
117	100		
201	69.6	34.8	104.5

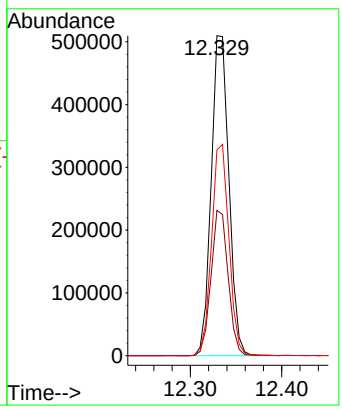




#91
1,2-Dichlorobenzene
Concen: 94.557 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:146 Resp: 68446

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.6	64.6
148	64.8	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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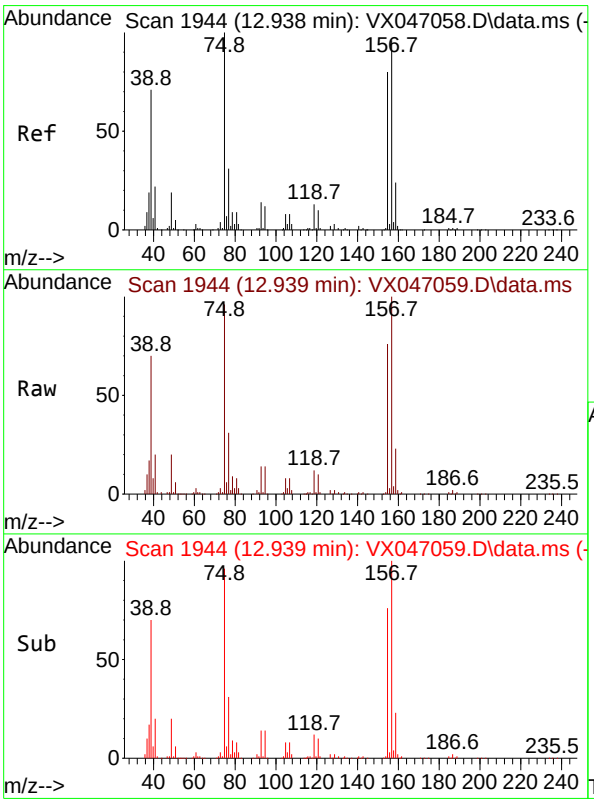
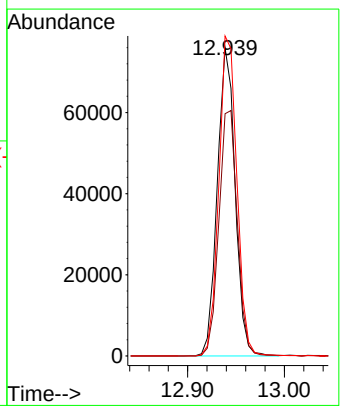
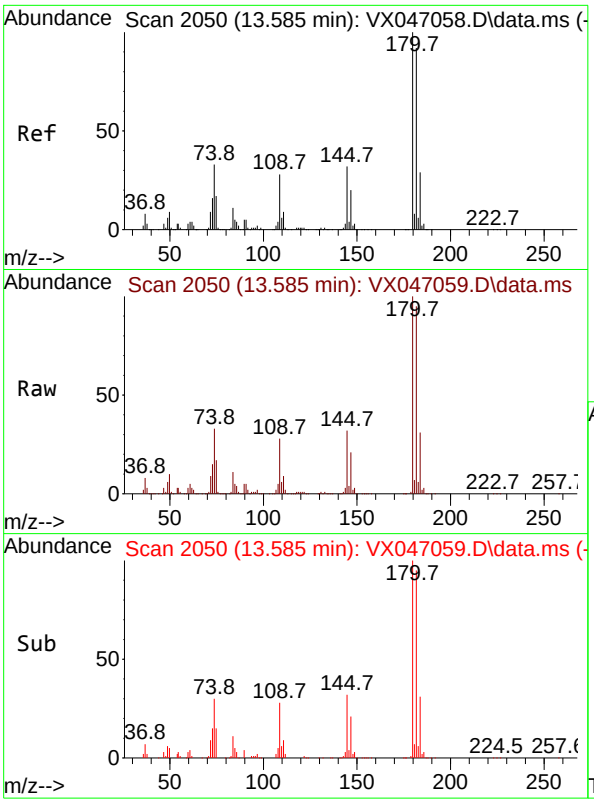


#92
1,2-Dibromo-3-Chloropropane
Concen: 106.683 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 75 Resp: 97209

Ion	Ratio	Lower	Upper
75	100		
155	82.3	41.3	124.1
157	104.9	52.8	158.3

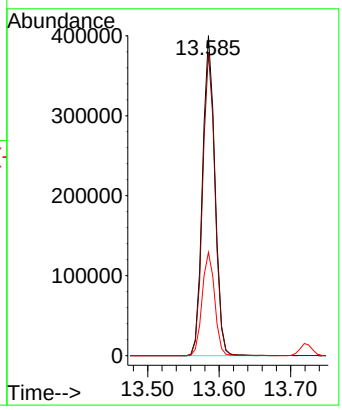




#93
1,2,4-Trichlorobenzene
Concen: 100.755 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:180 Resp: 48186

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.3	141.8
145	32.6	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/22/2025
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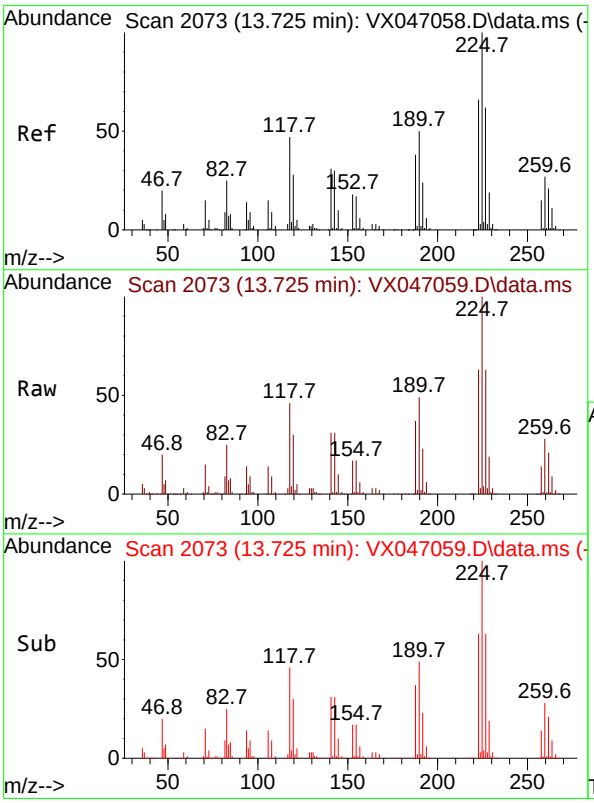
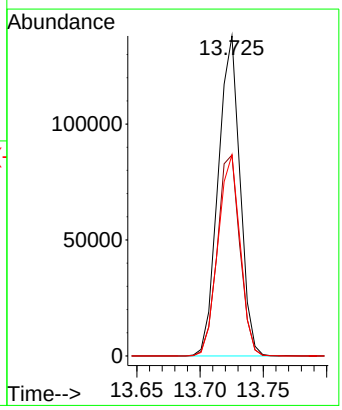
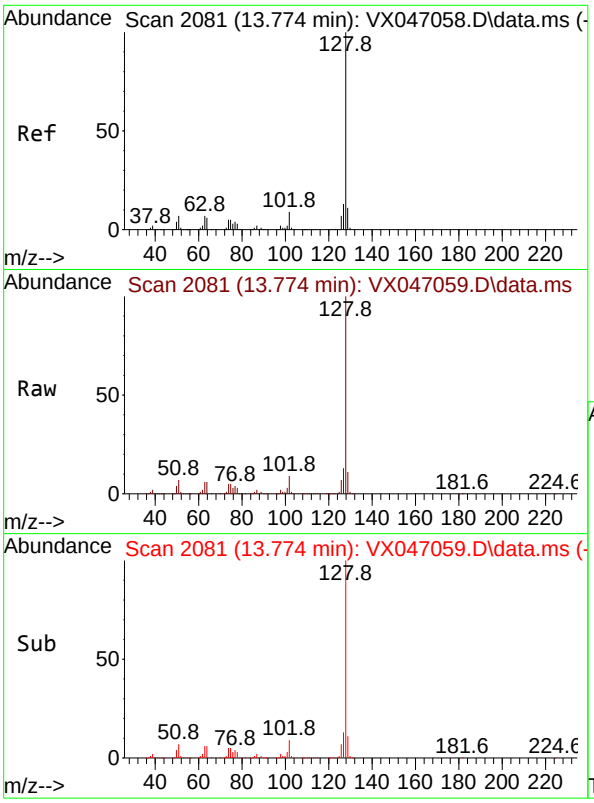


#94
Hexachlorobutadiene
Concen: 101.539 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:225 Resp: 165153

Ion	Ratio	Lower	Upper
225	100		
223	64.9	31.6	95.0
227	63.9	32.9	98.6

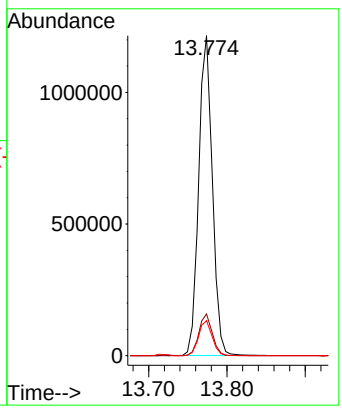




#95
Naphthalene
Concen: 105.135 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:128 Resp: 147403

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.9	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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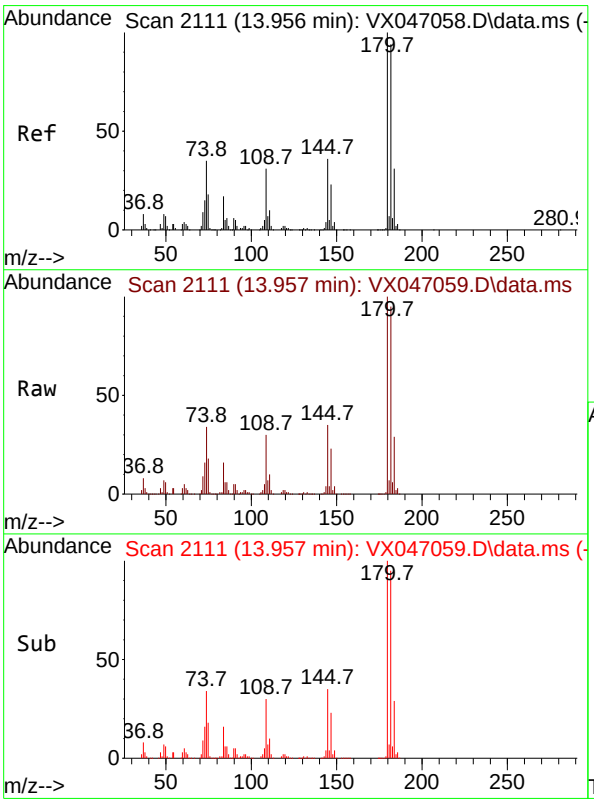
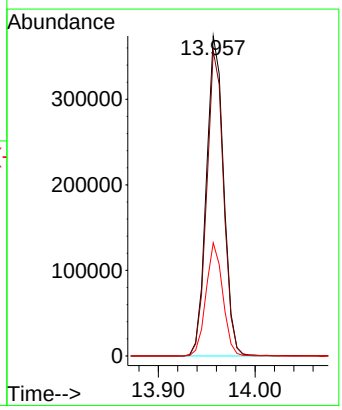


#96
1,2,3-Trichlorobenzene
Concen: 100.760 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:180 Resp: 464244

Ion	Ratio	Lower	Upper
180	100		
182	93.9	46.9	140.6
145	34.4	17.3	52.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047060.D
Acq On : 21 Jul 2025 11:32
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 22 03:40:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	281238	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	475828	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	420817	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	196123	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	547497	156.279	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 312.560%#			
35) Dibromofluoromethane	5.397	113	468188	159.361	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 318.720%#			
50) Toluene-d8	8.653	98	1448057	152.197	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 304.400%#			
62) 4-Bromofluorobenzene	11.079	95	635473	154.987	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 309.980%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	614977	164.628	ug/l	99
3) Chloromethane	1.307	50	591309	160.024	ug/l	98
4) Vinyl Chloride	1.386	62	609982	153.566	ug/l	100
5) Bromomethane	1.612	94	260740	120.842	ug/l	96
6) Chloroethane	1.691	64	357637	137.087	ug/l	99
7) Trichlorofluoromethane	1.898	101	903925	152.614	ug/l	99
8) Diethyl Ether	2.148	74	312592	149.683	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.343	101	532594	149.251	ug/l	99
10) Methyl Iodide	2.465	142	640817	176.203	ug/l	99
11) Tert butyl alcohol	2.971	59	299604	752.233	ug/l	97
12) 1,1-Dichloroethene	2.331	96	527730	149.314	ug/l	98
13) Acrolein	2.246	56	563218	746.645	ug/l	99
14) Allyl chloride	2.678	41	964459	150.960	ug/l	99
15) Acrylonitrile	3.075	53	1274179	762.599	ug/l	99
16) Acetone	2.392	43	975640	695.175	ug/l	100
17) Carbon Disulfide	2.526	76	1523226	148.974	ug/l	99
18) Methyl Acetate	2.715	43	558406	149.722	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	1616941	150.323	ug/l	99
20) Methylene Chloride	2.800	84	548865	142.156	ug/l	99
21) trans-1,2-Dichloroethene	3.105	96	533003	147.371	ug/l	97
22) Diisopropyl ether	3.770	45	1792018	145.892	ug/l	97
23) Vinyl Acetate	3.733	43	7515505	762.847	ug/l	99
24) 1,1-Dichloroethane	3.623	63	1006940	147.421	ug/l	99
25) 2-Butanone	4.562	43	1525049	746.280	ug/l	98
26) 2,2-Dichloropropane	4.489	77	790347	149.478	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	627302	146.469	ug/l	99
28) Bromochloromethane	4.910	49	464333	147.764	ug/l	100
29) Tetrahydrofuran	5.013	42	995703	755.168	ug/l	99
30) Chloroform	5.105	83	982491	141.308	ug/l	97
31) Cyclohexane	5.483	56	928560	141.781	ug/l	99
32) 1,1,1-Trichloroethane	5.397	97	892102	147.721	ug/l	98
36) 1,1-Dichloropropene	5.702	75	707227	141.221	ug/l	99
37) Ethyl Acetate	4.721	43	664604	150.587	ug/l	99
38) Carbon Tetrachloride	5.690	117	771081	144.260	ug/l	99
39) Methylcyclohexane	7.385	83	932504	149.137	ug/l	98
40) Benzene	6.044	78	2112753	145.777	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047060.D
Acq On : 21 Jul 2025 11:32
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 22 03:40:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	373711	154.886	ug/l		98
42) 1,2-Dichloroethane	6.092	62	737991	144.555	ug/l		99
43) Isopropyl Acetate	6.342	43	1145157	159.182	ug/l		99
44) Trichloroethene	7.129	130	547123	147.215	ug/l		97
45) 1,2-Dichloropropane	7.434	63	529204	145.791	ug/l		97
46) Dibromomethane	7.586	93	381666	149.938	ug/l		99
47) Bromodichloromethane	7.824	83	794793	146.693	ug/l		99
48) Methyl methacrylate	7.696	41	589190	150.339	ug/l		99
49) 1,4-Dioxane	7.665	88	141473	3173.881	ug/l		97
51) 4-Methyl-2-Pentanone	8.574	43	3143746	735.203	ug/l		100
52) Toluene	8.720	92	1298426	145.703	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	802670	156.884	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	876033	156.442	ug/l		100
55) 1,1,2-Trichloroethane	9.153	97	478247	143.101	ug/l		99
56) Ethyl methacrylate	9.116	69	791875	160.053	ug/l		99
57) 1,3-Dichloropropane	9.305	76	823631	141.802	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	2120903	770.350	ug/l		99
59) 2-Hexanone	9.433	43	2172764	769.096	ug/l		99
60) Dibromochloromethane	9.519	129	583183	148.786	ug/l		99
61) 1,2-Dibromoethane	9.610	107	500995	143.366	ug/l		99
64) Tetrachloroethene	9.275	164	433805	142.999	ug/l		98
65) Chlorobenzene	10.079	112	1432482	145.306	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.165	131	495347	149.242	ug/l		98
67) Ethyl Benzene	10.195	91	2508990	145.559	ug/l		100
68) m/p-Xylenes	10.299	106	1848008	286.495	ug/l		98
69) o-Xylene	10.640	106	897705	146.292	ug/l		100
70) Styrene	10.653	104	1538516	146.214	ug/l		99
71) Bromoform	10.799	173	377881	149.877	ug/l	#	100
73) Isopropylbenzene	10.963	105	2341028	151.299	ug/l		99
74) N-amyl acetate	10.842	43	1017450	164.856	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	649081	146.858	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	542883m	149.549	ug/l		
77) Bromobenzene	11.195	156	555966	149.806	ug/l		99
78) n-propylbenzene	11.305	91	2790577	150.924	ug/l		99
79) 2-Chlorotoluene	11.366	91	1641174	148.487	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	1921023	150.280	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	234105	166.150	ug/l		95
82) 4-Chlorotoluene	11.451	91	1901346	147.381	ug/l		99
83) tert-Butylbenzene	11.713	119	1941048	151.288	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	1923088	150.829	ug/l		100
85) sec-Butylbenzene	11.890	105	2386553	148.873	ug/l		100
86) p-Isopropyltoluene	12.006	119	2001346	150.546	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	1044993	148.192	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	1039670	145.525	ug/l		98
89) n-Butylbenzene	12.329	91	1874924	150.392	ug/l		99
90) Hexachloroethane	12.536	117	376780	158.429	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	994860	147.614	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	142395	167.843	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	691853	155.373	ug/l		100
94) Hexachlorobutadiene	13.725	225	224504	148.249	ug/l		97
95) Naphthalene	13.774	128	2171681	166.363	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	662501	154.436	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047060.D
Acq On : 21 Jul 2025 11:32
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 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:40:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

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

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

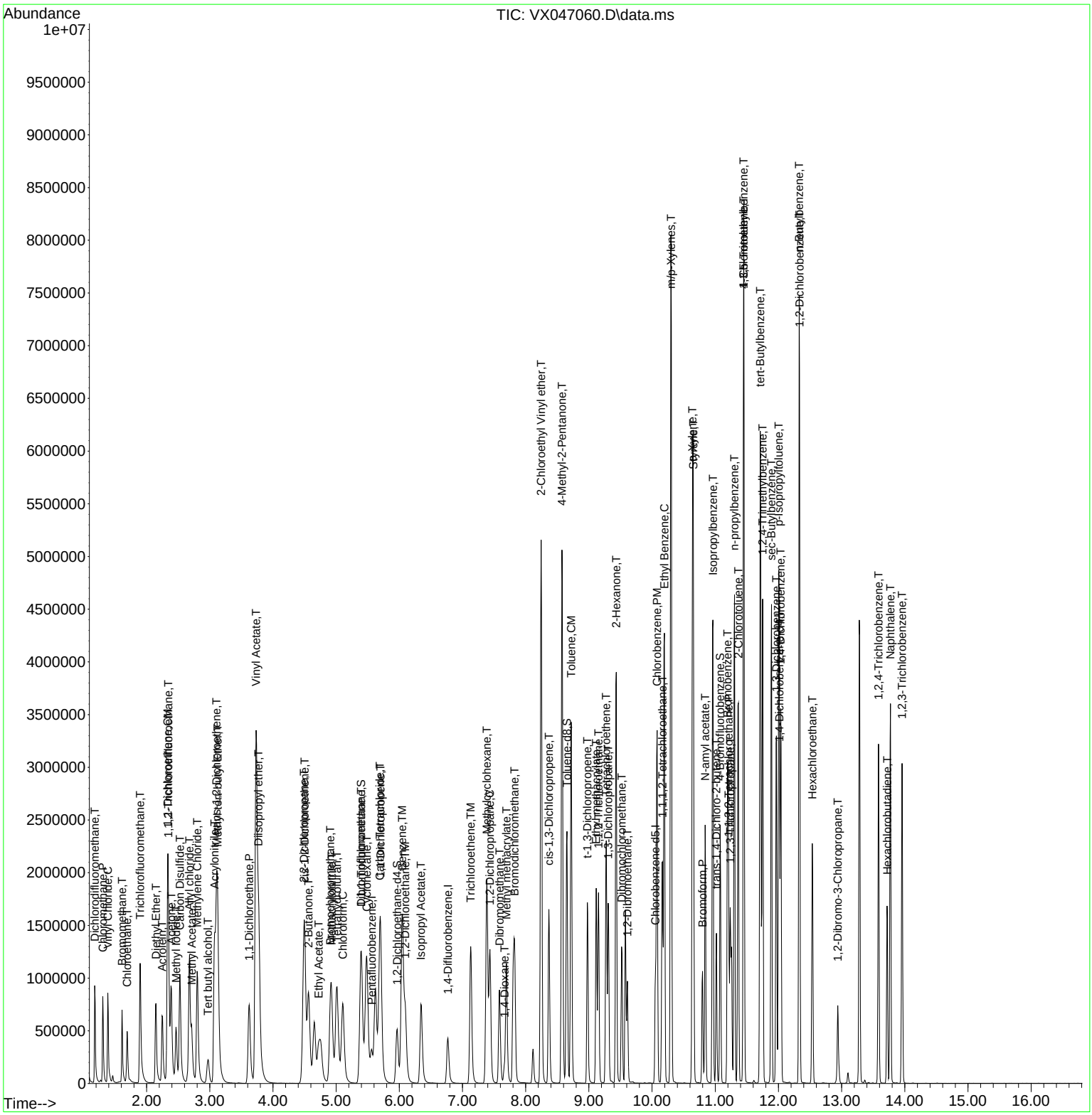
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047060.D
Acq On : 21 Jul 2025 11:32
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

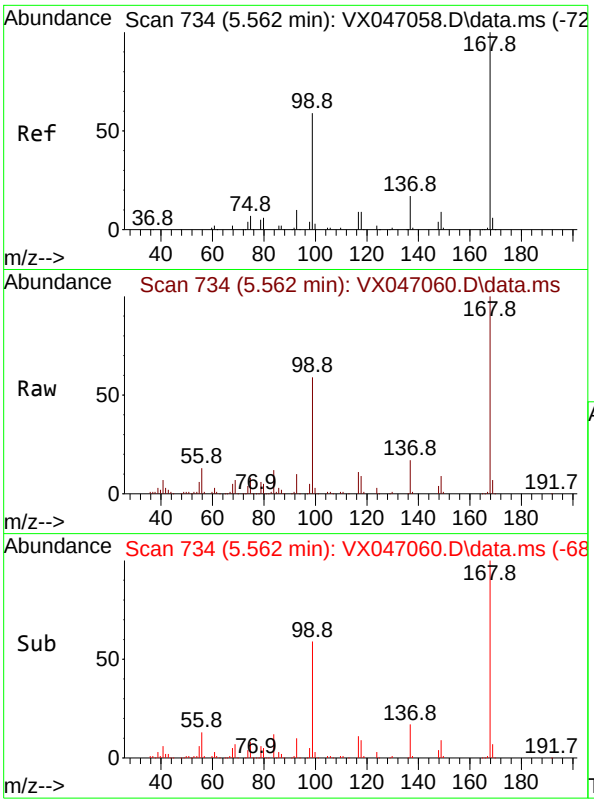
Quant Time: Jul 22 03:40:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

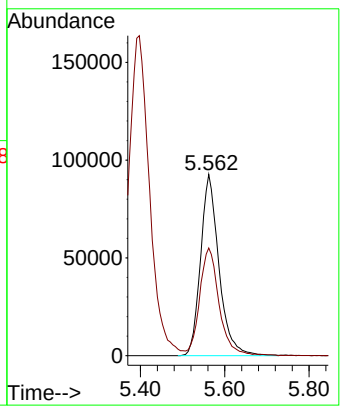




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:168 Resp: 28123

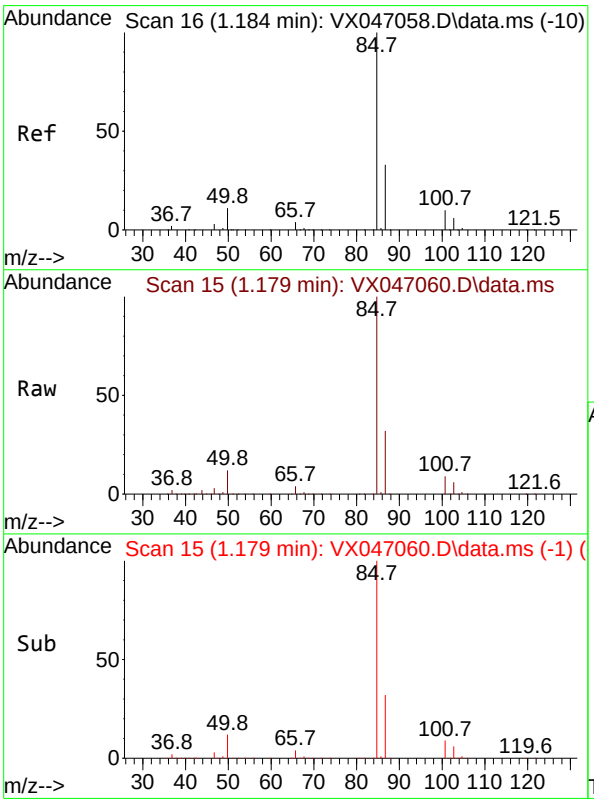
Ion	Ratio	Lower	Upper
168	100		
99	59.4	48.0	72.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

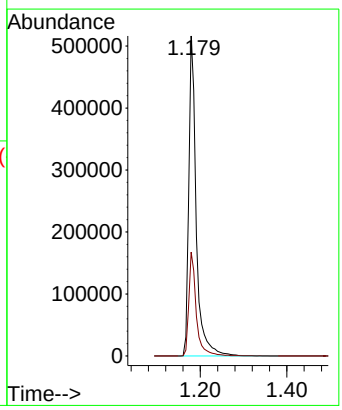
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

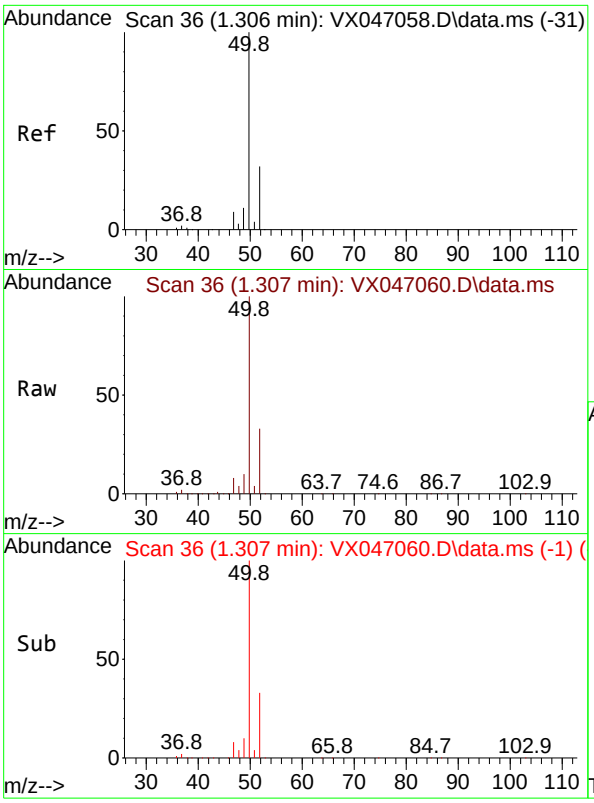


#2
Dichlorodifluoromethane
Concen: 164.628 ug/l
RT: 1.179 min Scan# 15
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 85 Resp: 614977

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.6	49.8

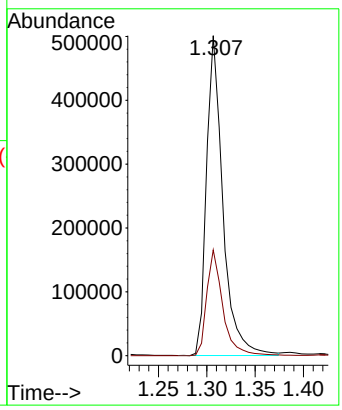




#3
Chloromethane
Concen: 160.024 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 50 Resp: 59130

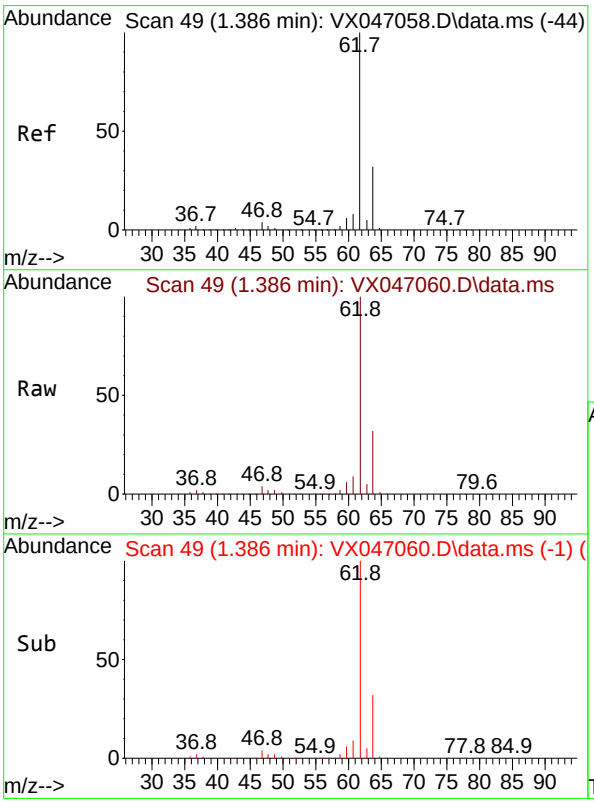
Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

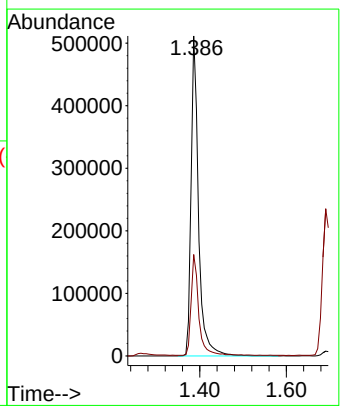
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

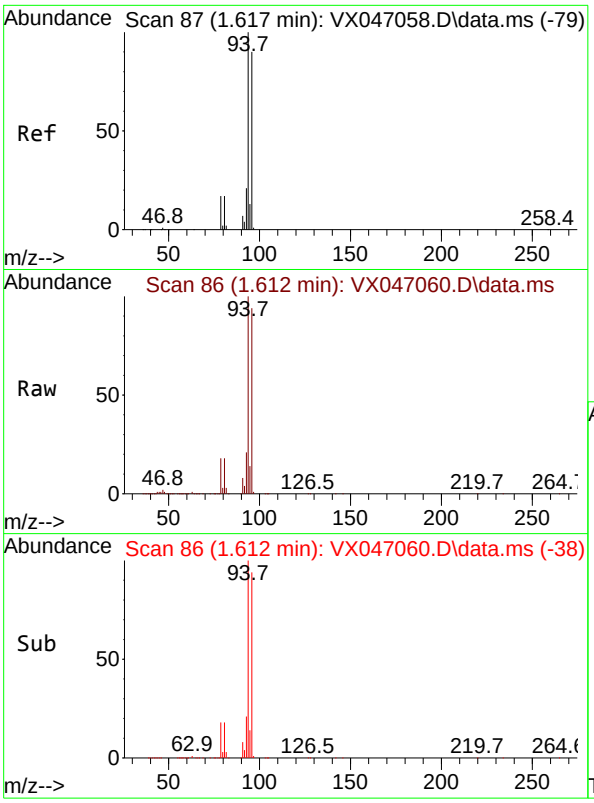


#4
Vinyl Chloride
Concen: 153.566 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 62 Resp: 609982

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.2	37.8

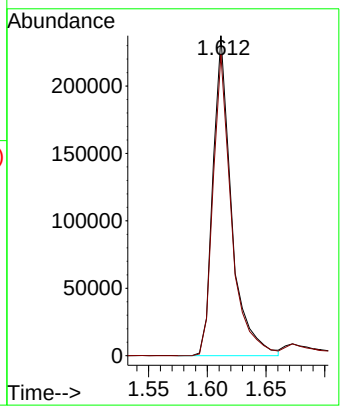




#5
Bromomethane
Concen: 120.842 ug/l
RT: 1.612 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 94 Resp: 26074

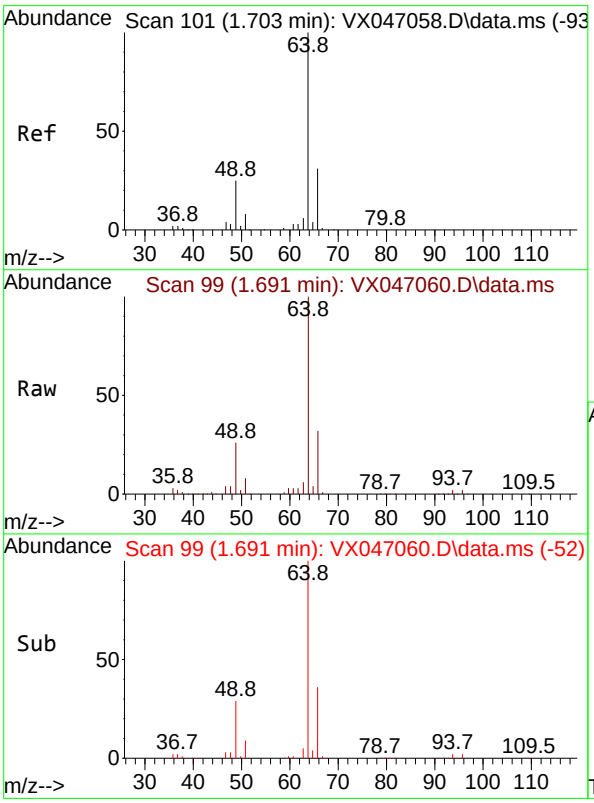
Ion	Ratio	Lower	Upper
94	100		
96	94.1	72.3	108.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

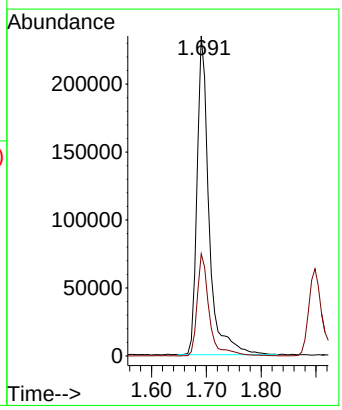
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

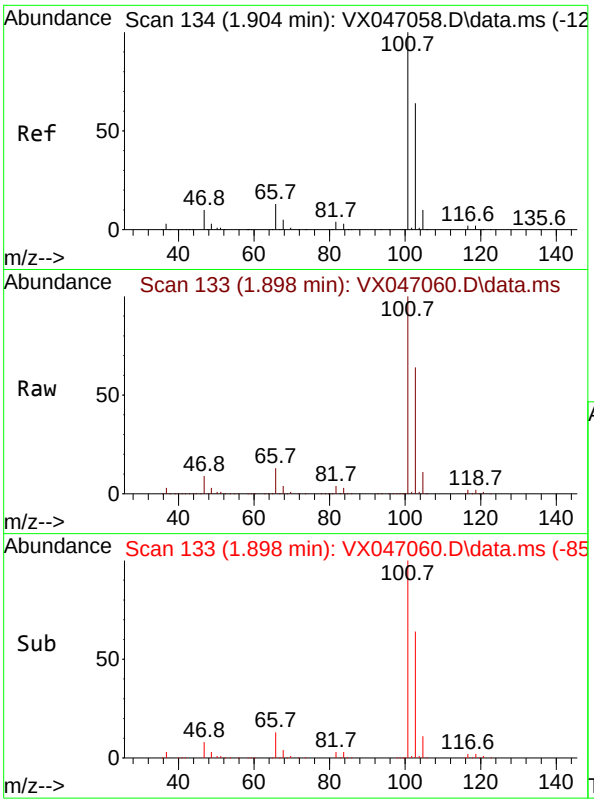


#6
Chloroethane
Concen: 137.087 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.012 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 64 Resp: 357637

Ion	Ratio	Lower	Upper
64	100		
66	32.0	25.0	37.6

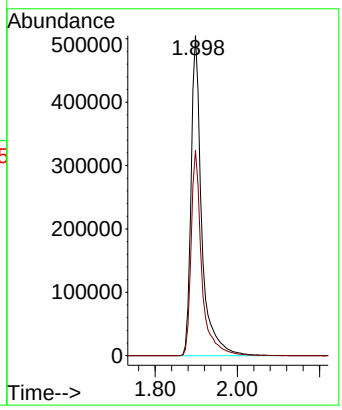




#7
Trichlorofluoromethane
Concen: 152.614 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:101 Resp: 90392

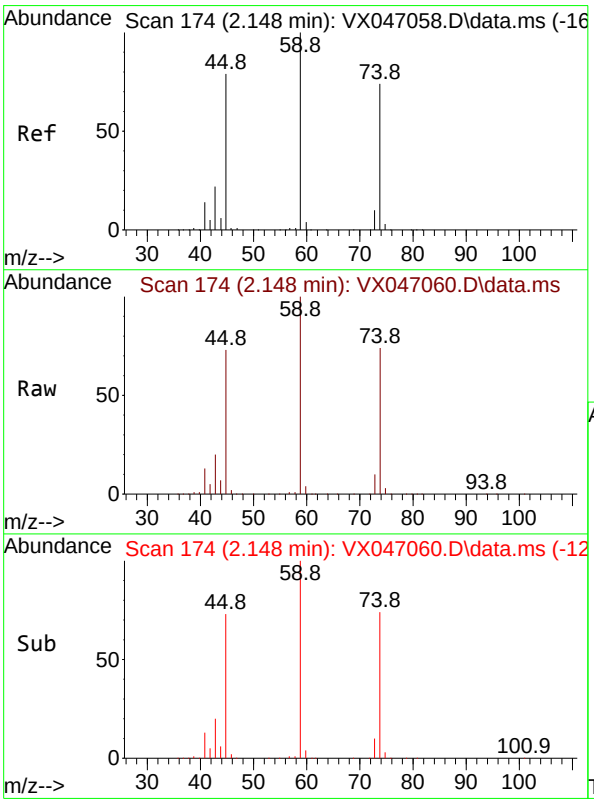
Ion	Ratio	Lower	Upper
101	100		
103	64.1	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

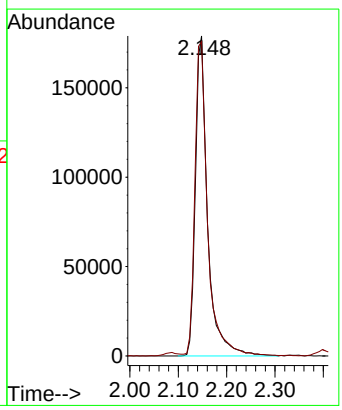
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

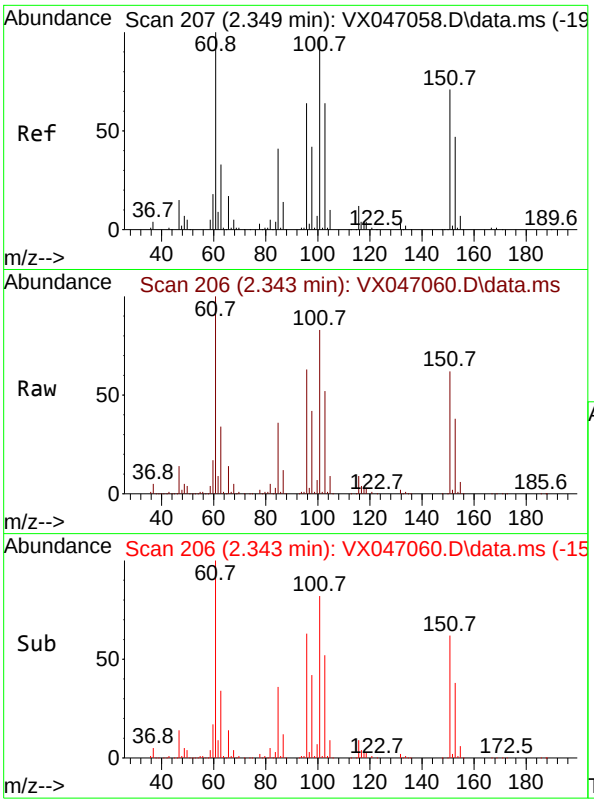


#8
Diethyl Ether
Concen: 149.683 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 74 Resp: 312592

Ion	Ratio	Lower	Upper
74	100		
45	101.9	53.0	159.0

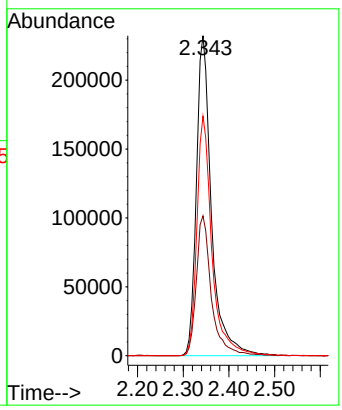




#9
1,1,2-Trichlorotrifluoroethane
Concen: 149.251 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

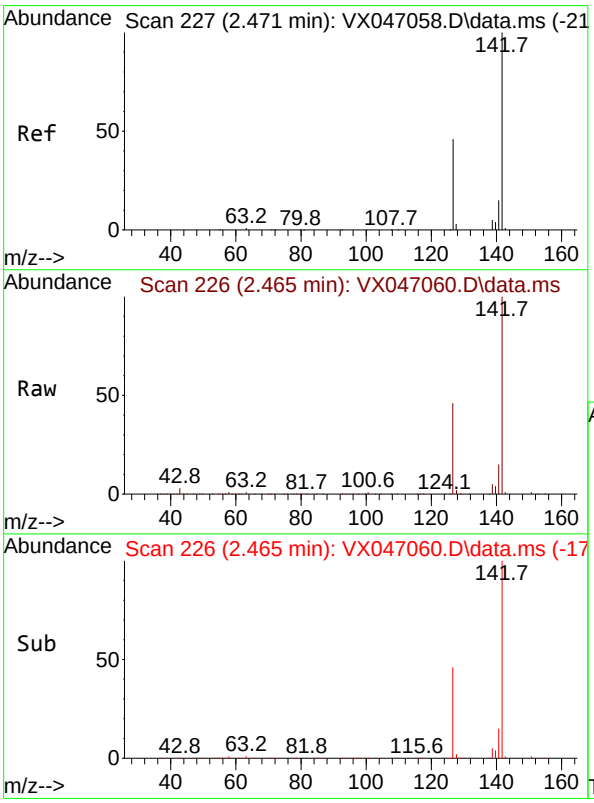
Tgt Ion:101 Resp: 53259

Ion	Ratio	Lower	Upper
101	100		
85	43.8	35.4	53.0
151	74.8	59.2	88.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

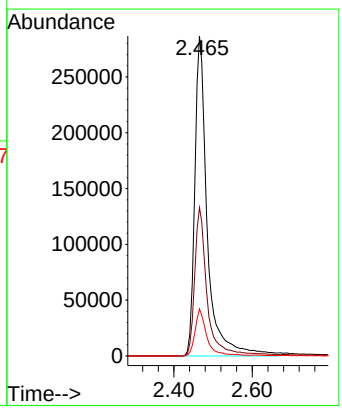
Manual Integrations APPROVED
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

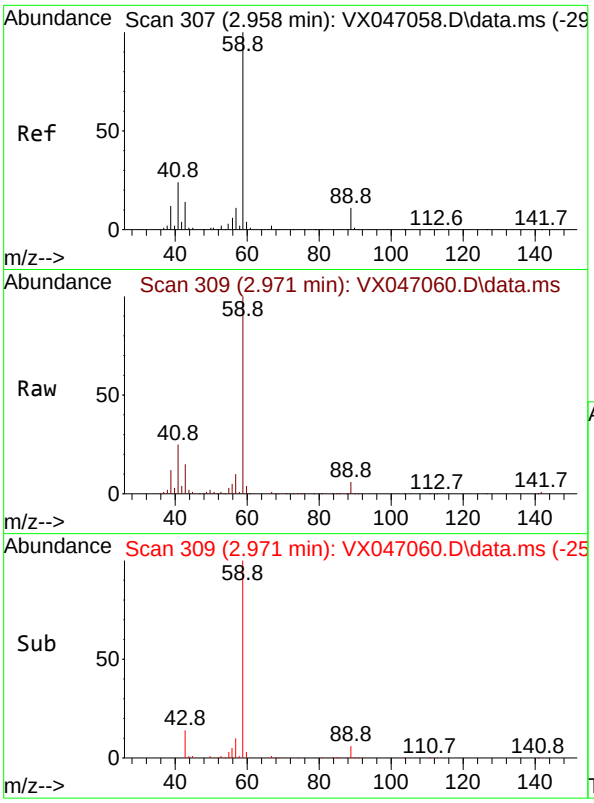


#10
Methyl Iodide
Concen: 176.203 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:142 Resp: 640817

Ion	Ratio	Lower	Upper
142	100		
127	46.4	36.6	54.8
141	13.8	10.9	16.3

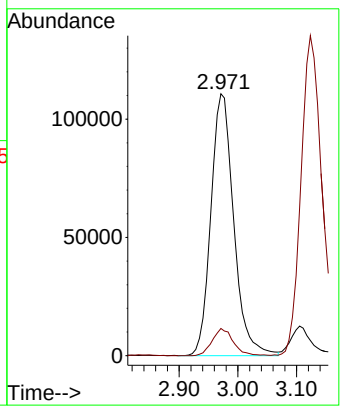




#11
Tert butyl alcohol
Concen: 752.233 ug/l
RT: 2.971 min Scan# 3
Delta R.T. 0.013 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 59 Resp: 29960

Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.5	12.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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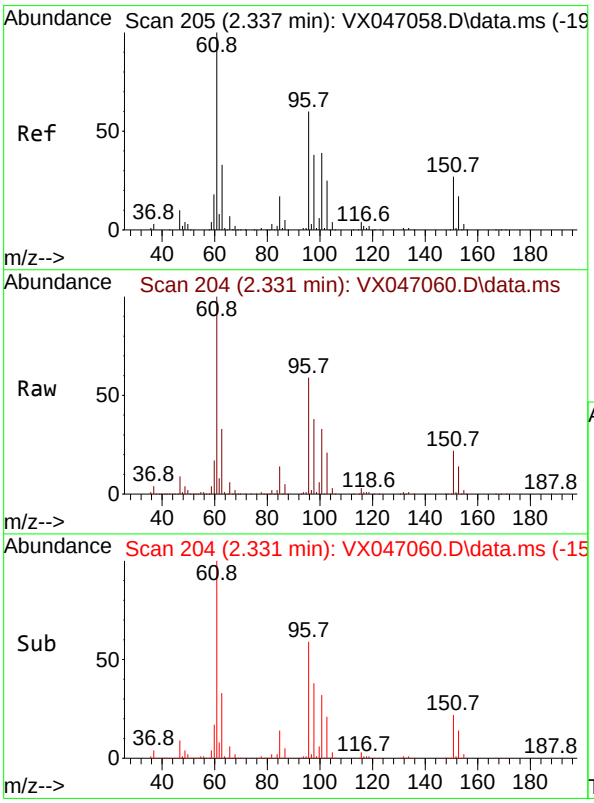
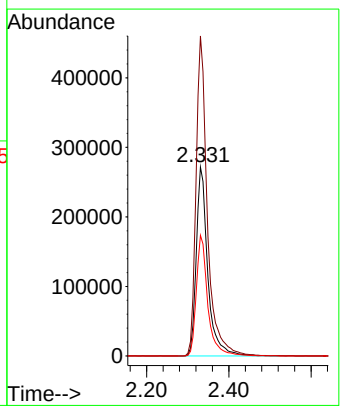
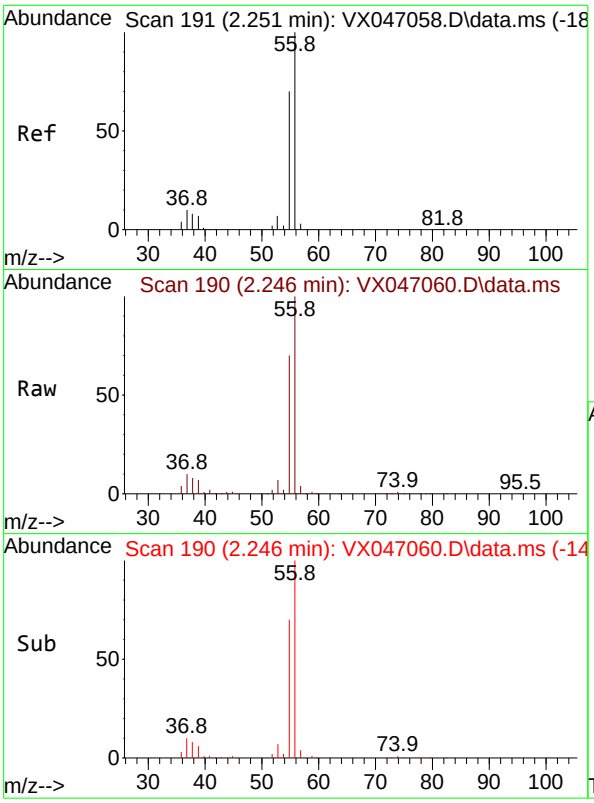


#12
1,1-Dichloroethene
Concen: 149.314 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 96 Resp: 527730

Ion	Ratio	Lower	Upper
96	100		
61	169.3	132.6	198.8
98	63.9	50.2	75.4

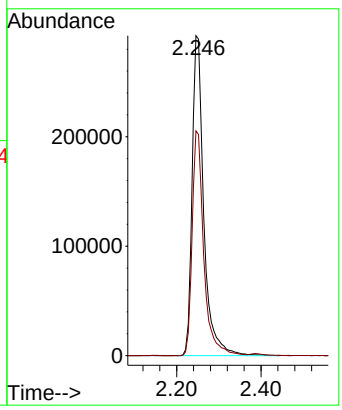




#13
Acrolein
Concen: 746.645 ug/l
RT: 2.246 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 56 Resp: 56321

Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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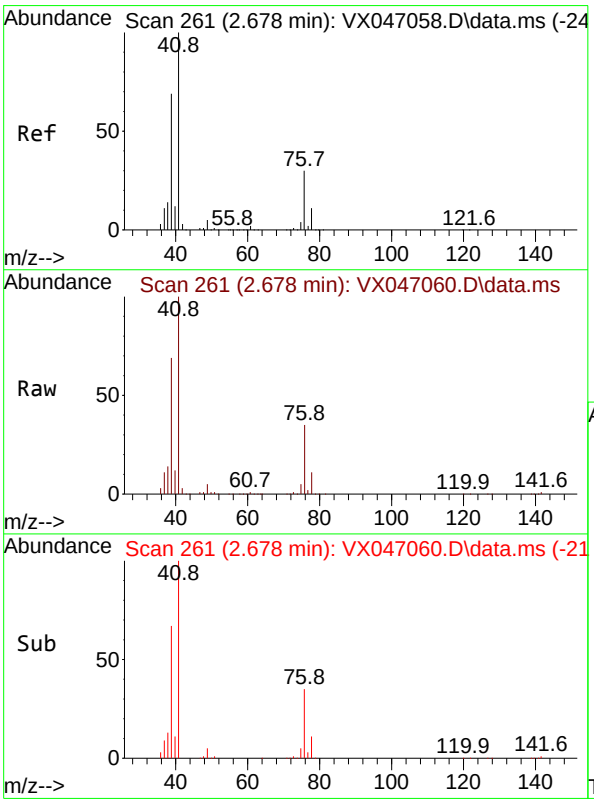
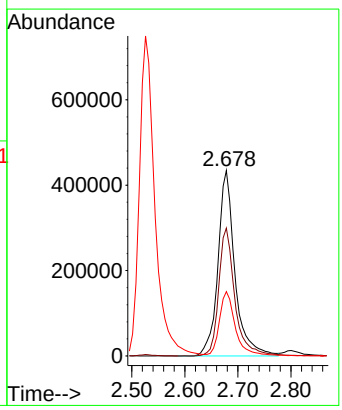
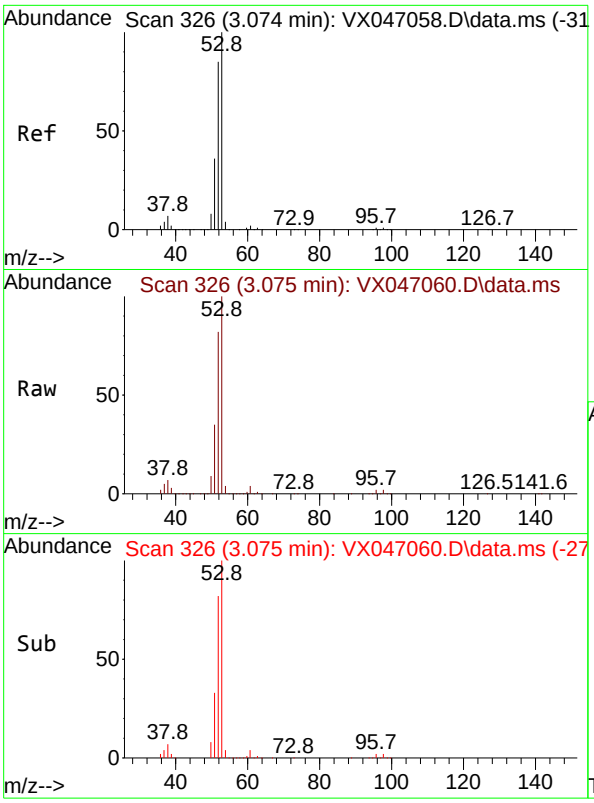


#14
Allyl chloride
Concen: 150.960 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 41 Resp: 964459

Ion	Ratio	Lower	Upper
41	100		
39	66.1	52.6	78.8
76	32.7	25.7	38.5

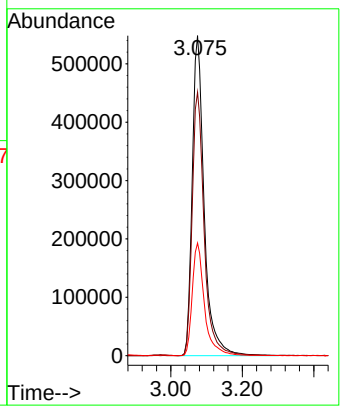




#15
Acrylonitrile
Concen: 762.599 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 53 Resp: 127417

Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.7	98.5
51	36.0	28.8	43.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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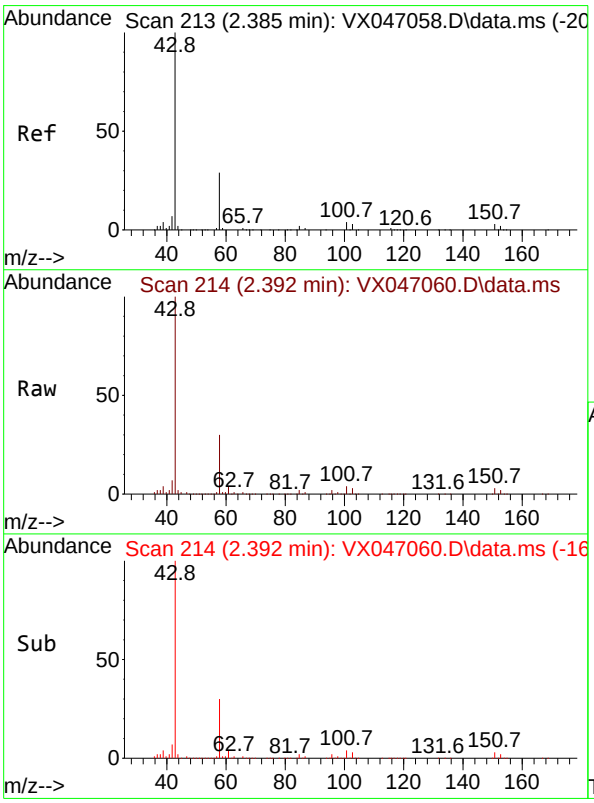
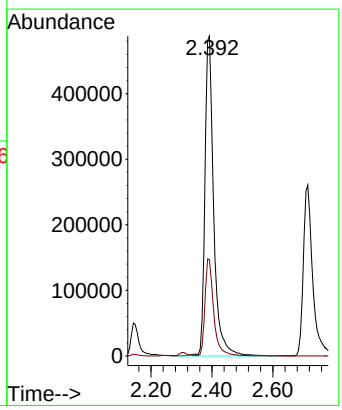
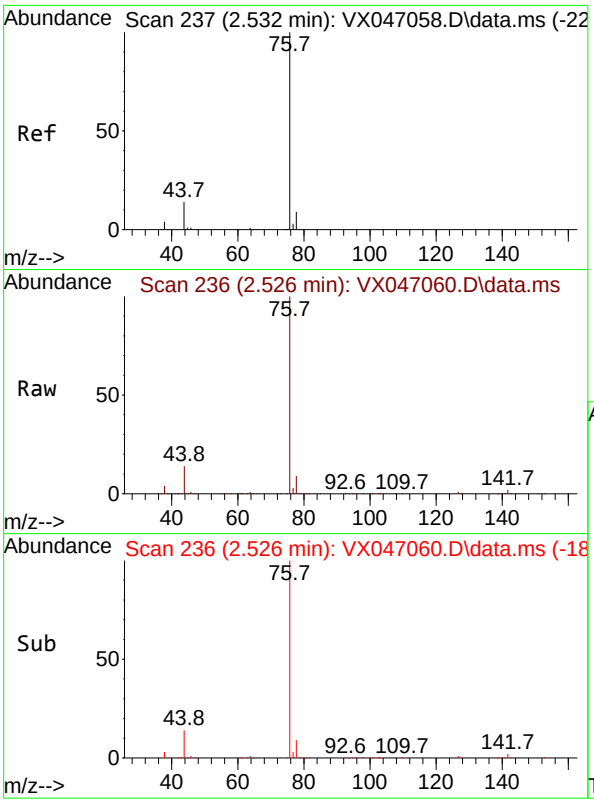


#16
Acetone
Concen: 695.175 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.007 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 43 Resp: 975640

Ion	Ratio	Lower	Upper
43	100		
58	30.1	24.0	36.0

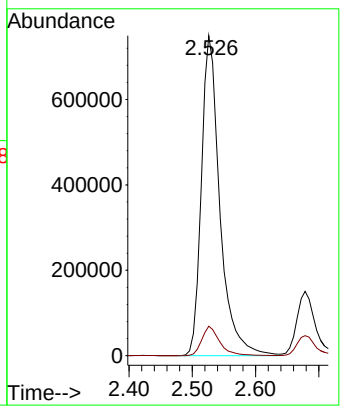




#17
Carbon Disulfide
Concen: 148.974 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 76 Resp: 152322

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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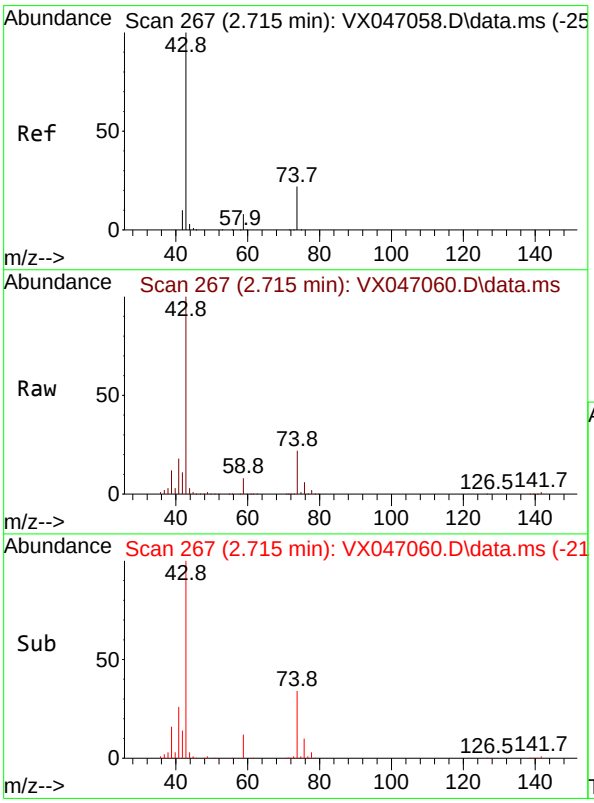
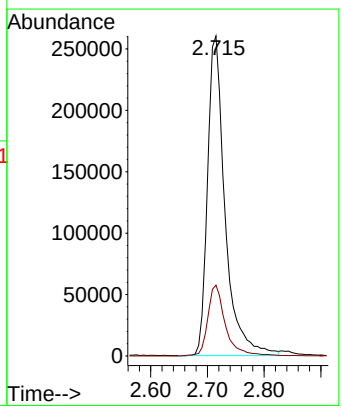
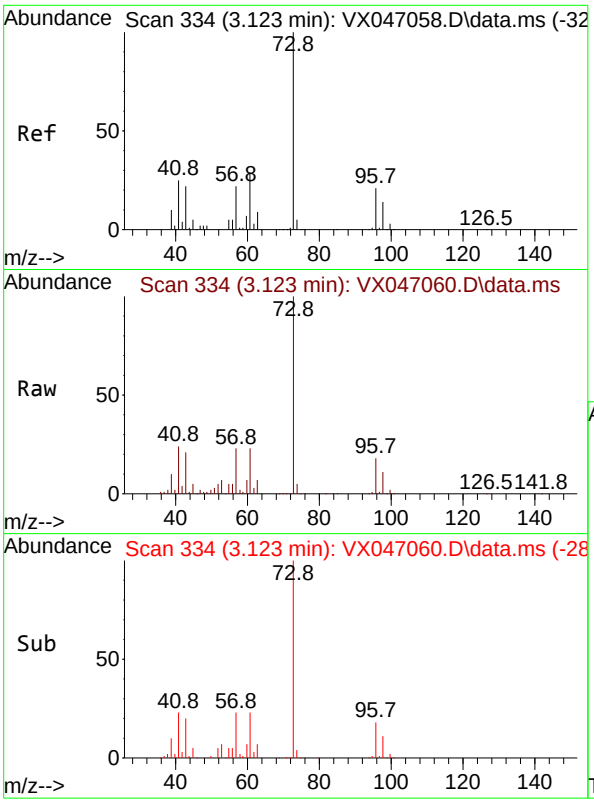


#18
Methyl Acetate
Concen: 149.722 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 43 Resp: 558406

Ion	Ratio	Lower	Upper
43	100		
74	22.6	17.7	26.5





#19
Methyl tert-butyl Ether
Concen: 150.323 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 73 Resp: 161694

Ion	Ratio	Lower	Upper
73	100		
57	22.6	17.7	26.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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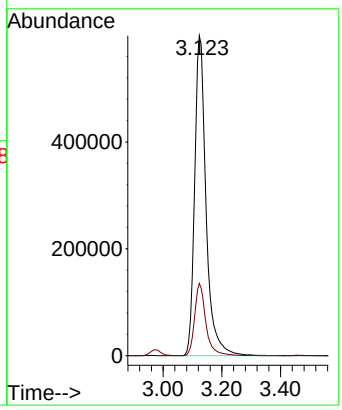
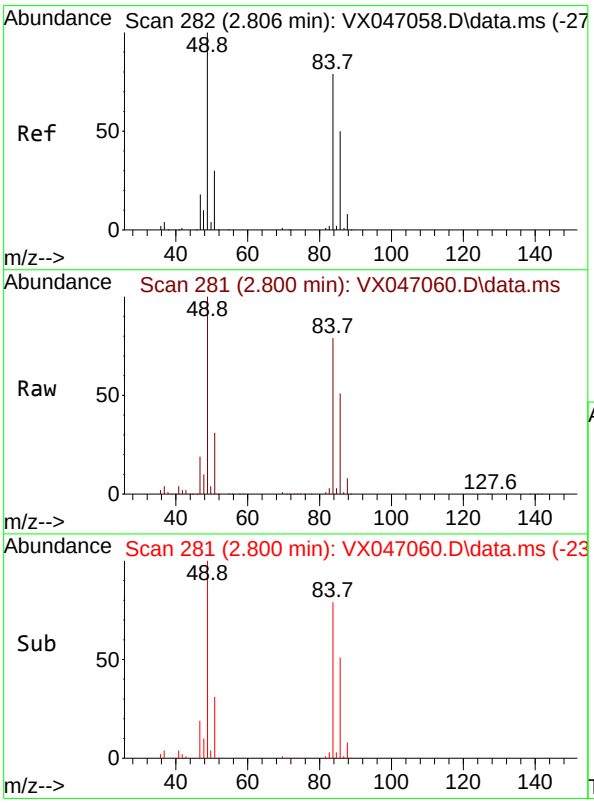
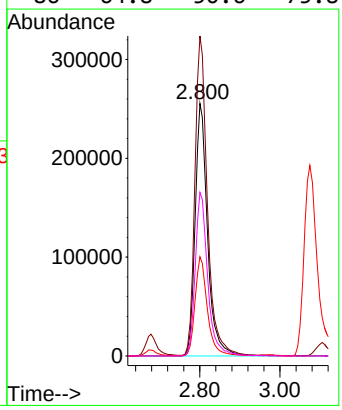


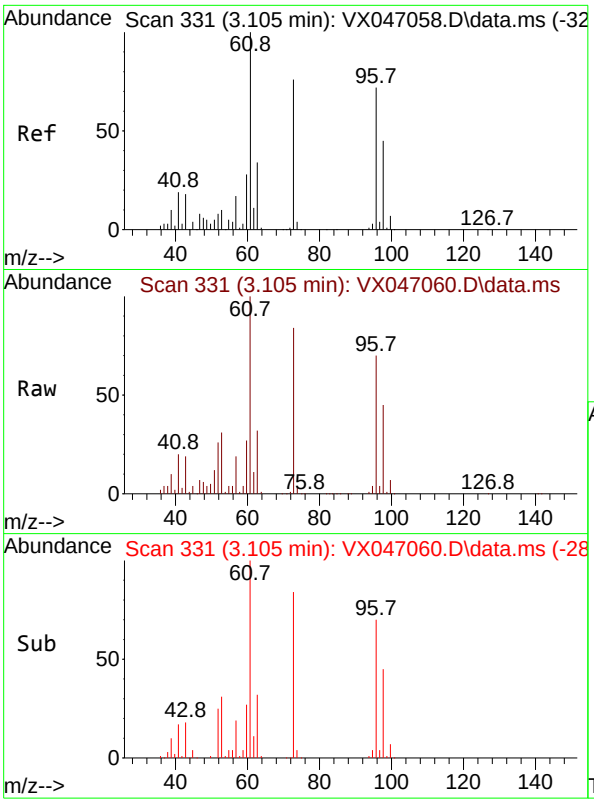


#20
Methylene Chloride
Concen: 142.156 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 84 Resp: 548865

Ion	Ratio	Lower	Upper
84	100		
49	126.6	101.6	152.4
51	39.2	30.3	45.5
86	64.8	50.6	75.8

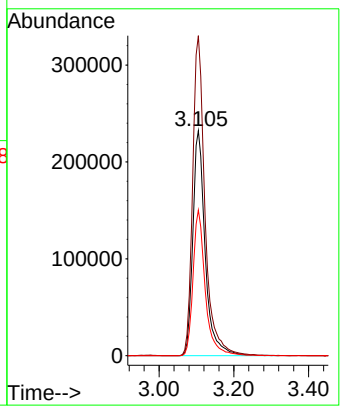




#21
trans-1,2-Dichloroethene
Concen: 147.371 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 96 Resp: 53300

Ion	Ratio	Lower	Upper
96	100		
61	142.3	111.1	166.7
98	64.7	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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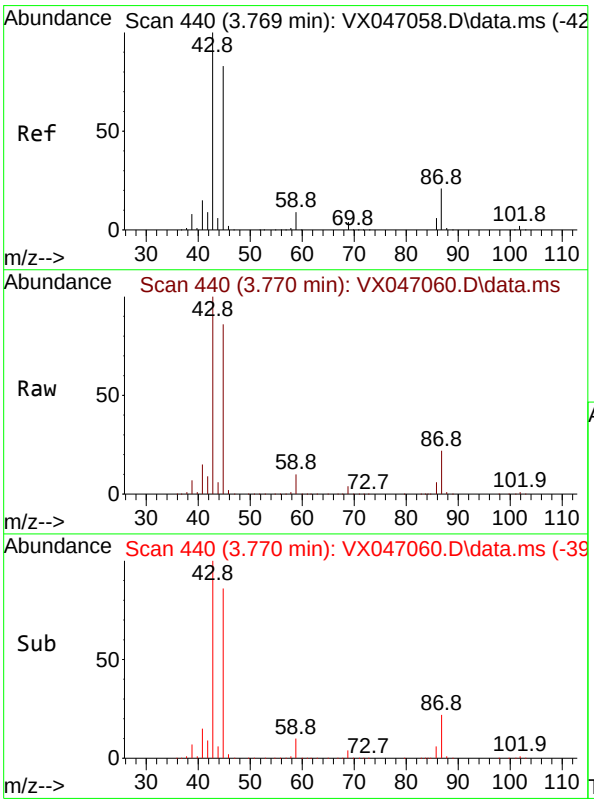
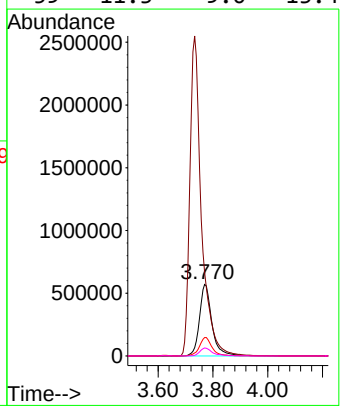
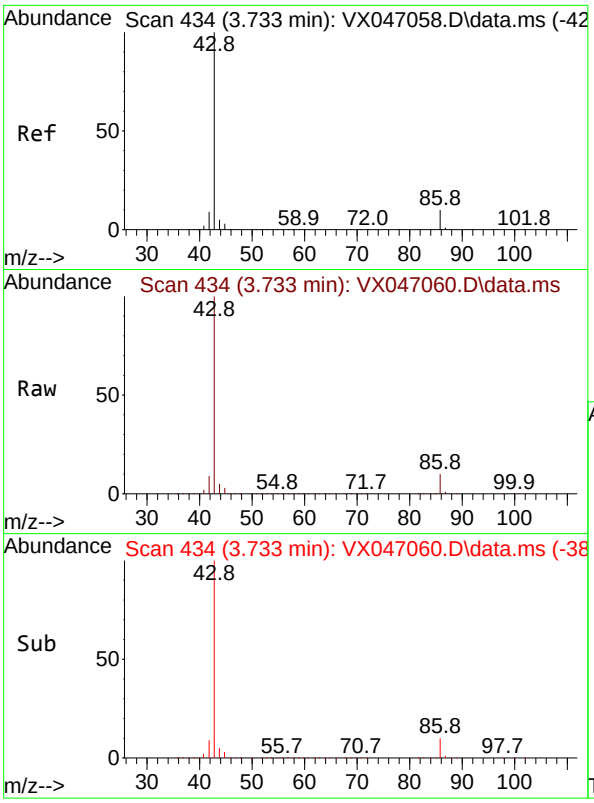


#22
Diisopropyl ether
Concen: 145.892 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 45 Resp: 1792018

Ion	Ratio	Lower	Upper
45	100		
43	116.8	96.8	145.2
87	25.8	20.5	30.7
59	11.3	9.0	13.4





#23
Vinyl Acetate
Concen: 762.847 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 43 Resp: 751550

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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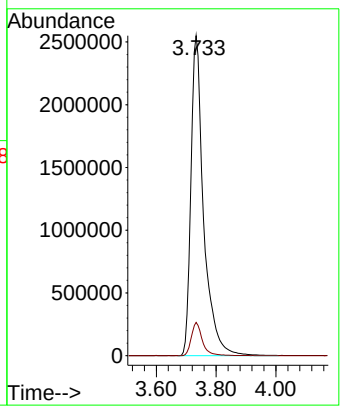
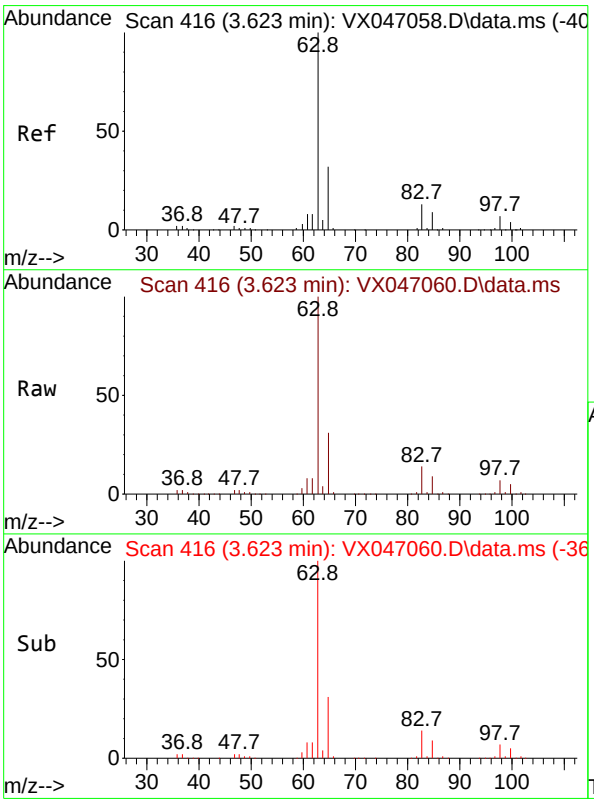
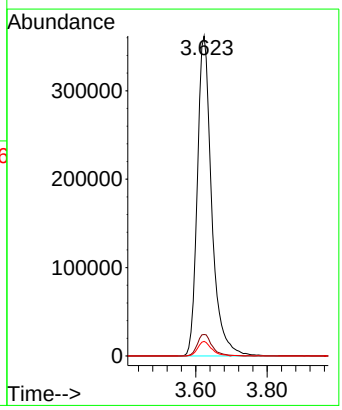


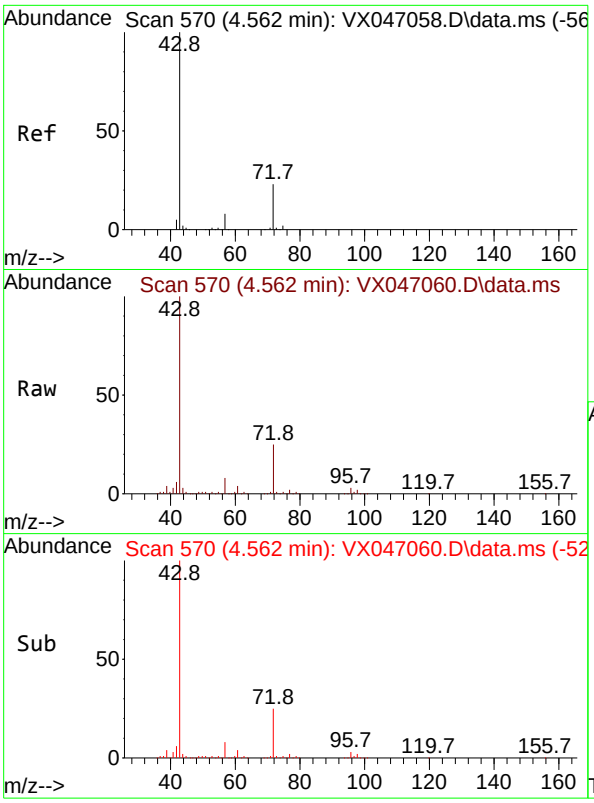


#24
1,1-Dichloroethane
Concen: 147.421 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 63 Resp: 1006940

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.6	10.8
100	4.6	2.3	6.8





#25
2-Butanone
Concen: 746.280 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 43 Resp: 152504

Ion	Ratio	Lower	Upper
43	100		
72	24.5	18.8	28.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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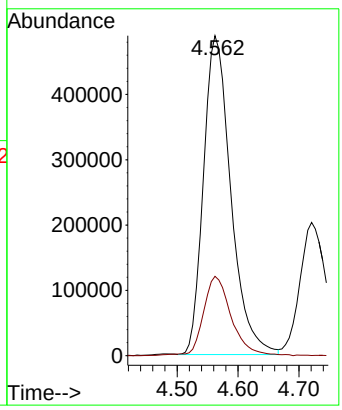
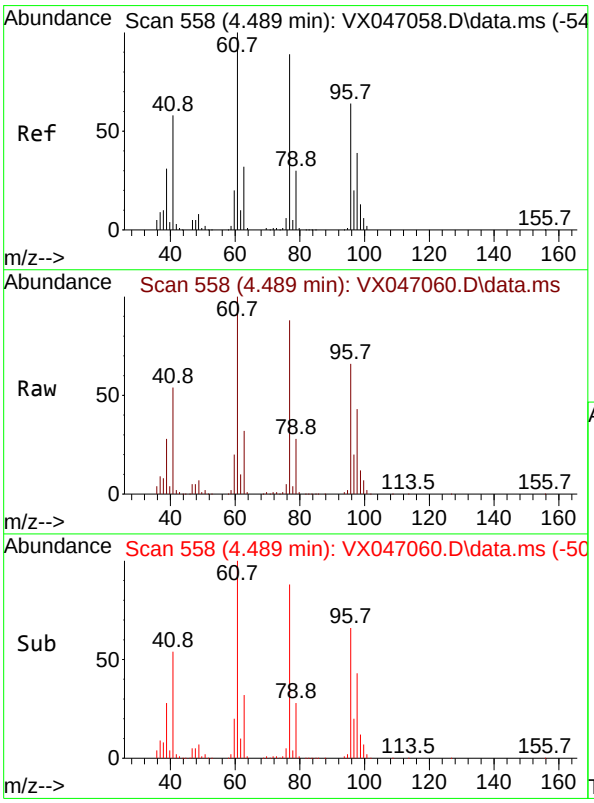
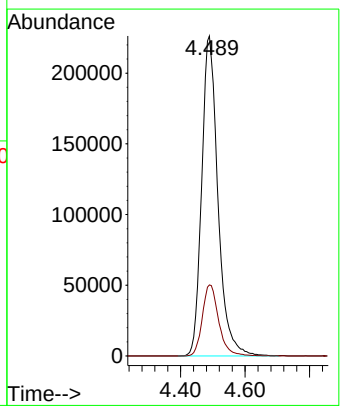


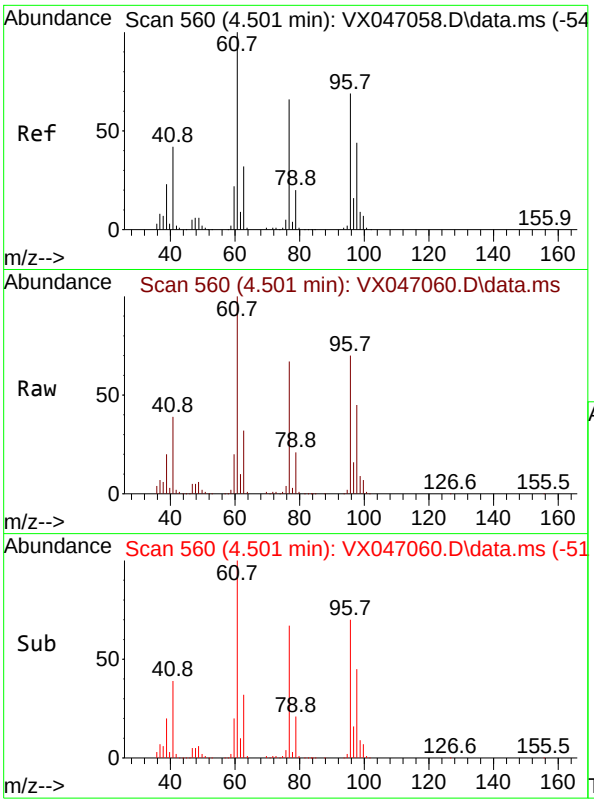


#26
2,2-Dichloropropane
Concen: 149.478 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 77 Resp: 790347

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.4	34.1

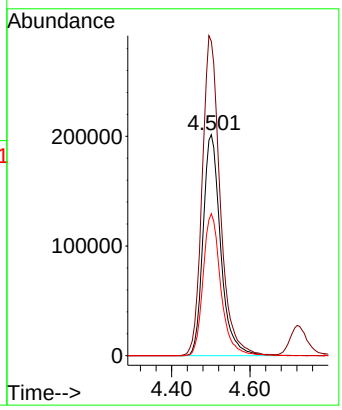




#27
cis-1,2-Dichloroethene
Concen: 146.469 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 96 Resp: 62730

Ion	Ratio	Lower	Upper
96	100		
61	148.2	0.0	298.6
98	64.7	0.0	128.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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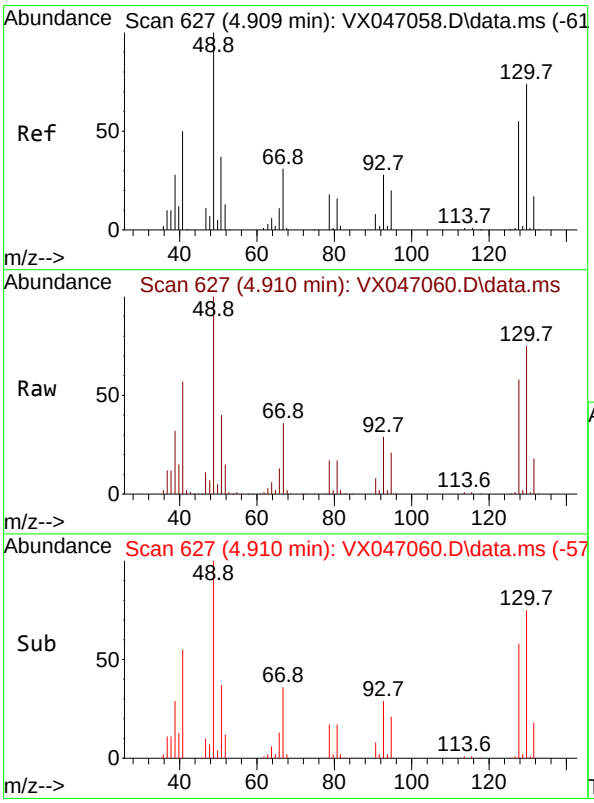
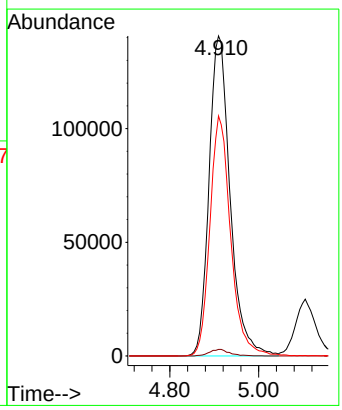
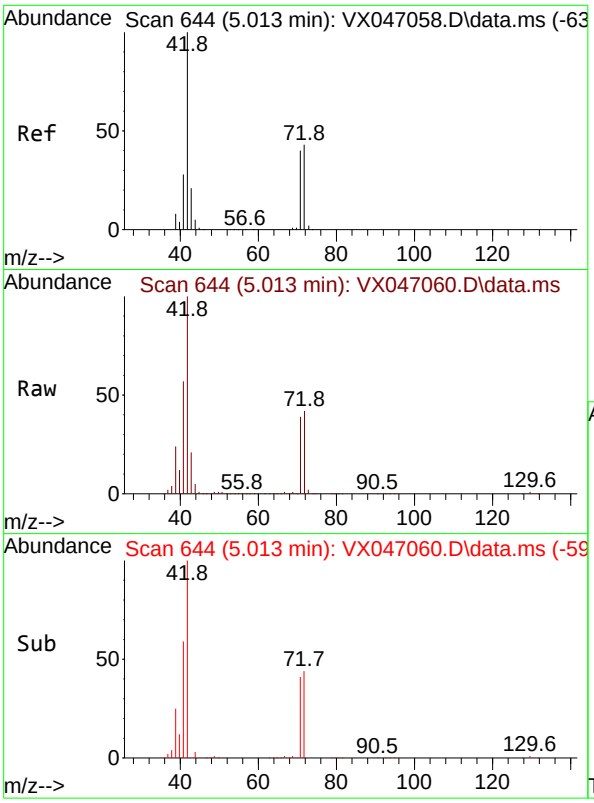


#28
Bromochloromethane
Concen: 147.764 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 49 Resp: 464333

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	73.5	59.0	88.4





#29
Tetrahydrofuran
Concen: 755.168 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 42 Resp: 99570

Ion	Ratio	Lower	Upper
42	100		
72	42.5	33.7	50.5
71	39.2	31.0	46.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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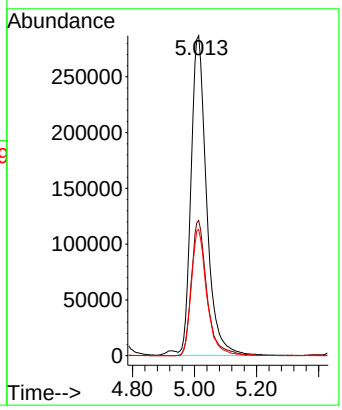
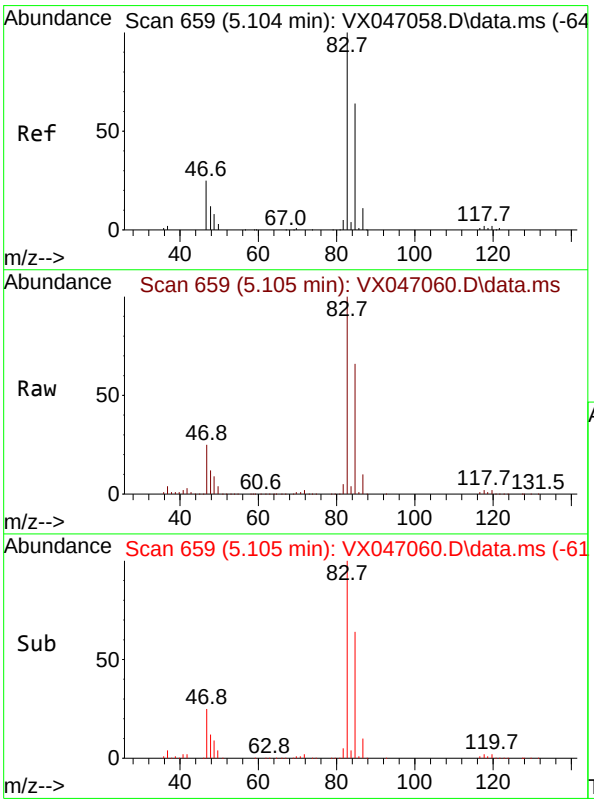
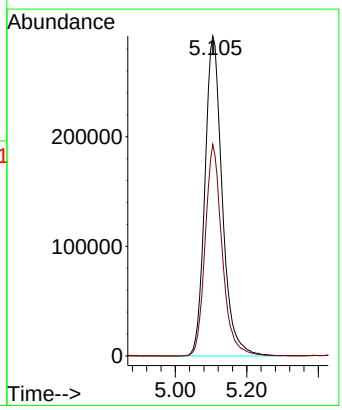


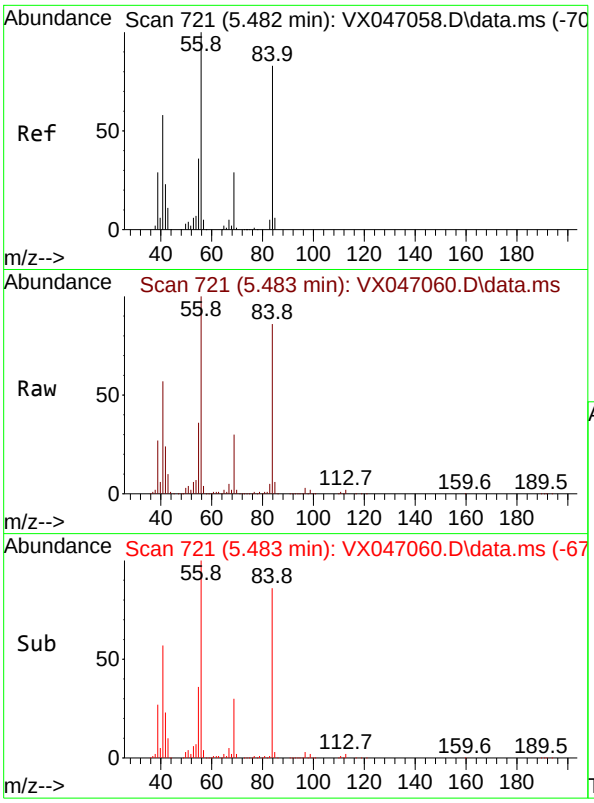


#30
Chloroform
Concen: 141.308 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 83 Resp: 982491

Ion	Ratio	Lower	Upper
83	100		
85	66.2	50.9	76.3

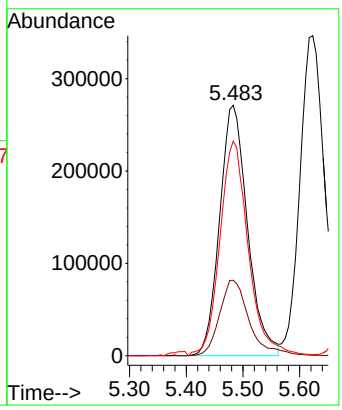




#31
Cyclohexane
Concen: 141.781 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 56 Resp: 92856

Ion	Ratio	Lower	Upper
56	100		
69	29.7	23.3	34.9
84	84.1	66.5	99.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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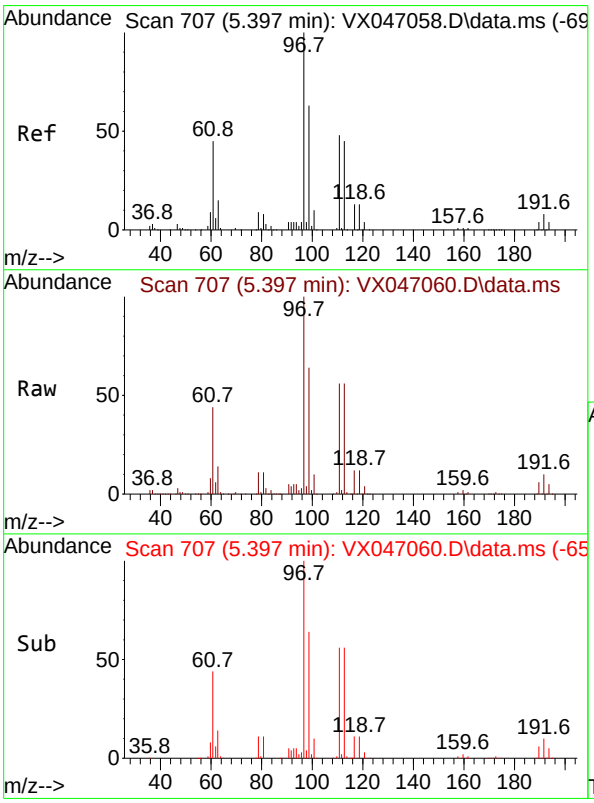
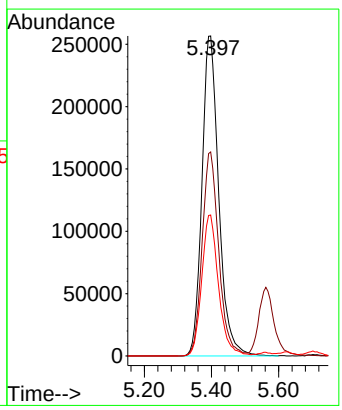
Supervised By :Mahesh Dadoda 07/22/2025

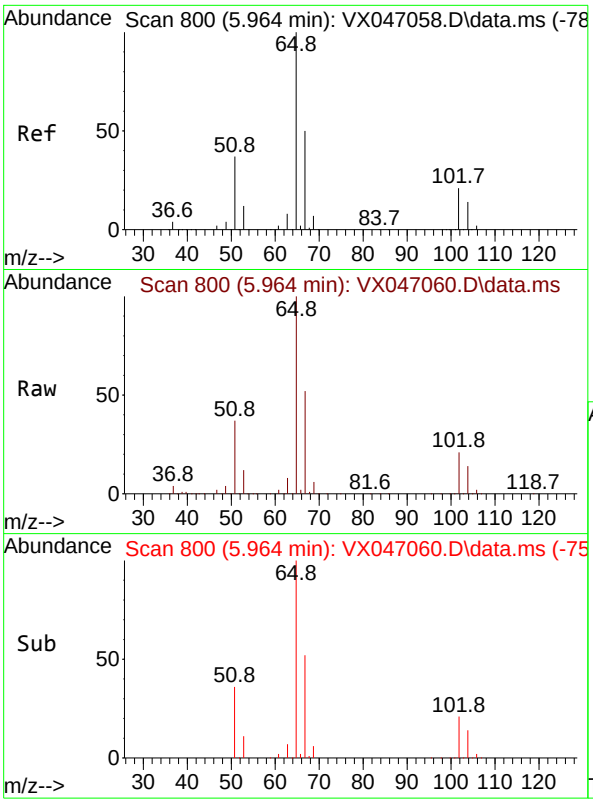


#32
1,1,1-Trichloroethane
Concen: 147.721 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 97 Resp: 892102

Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.2	76.8
61	44.2	37.1	55.7

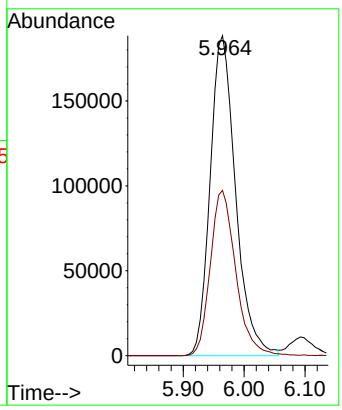




#33
1,2-Dichloroethane-d4
Concen: 156.279 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 65 Resp: 54749

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	104.8



Instrument :
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ClientSampleId :
VSTDICC150

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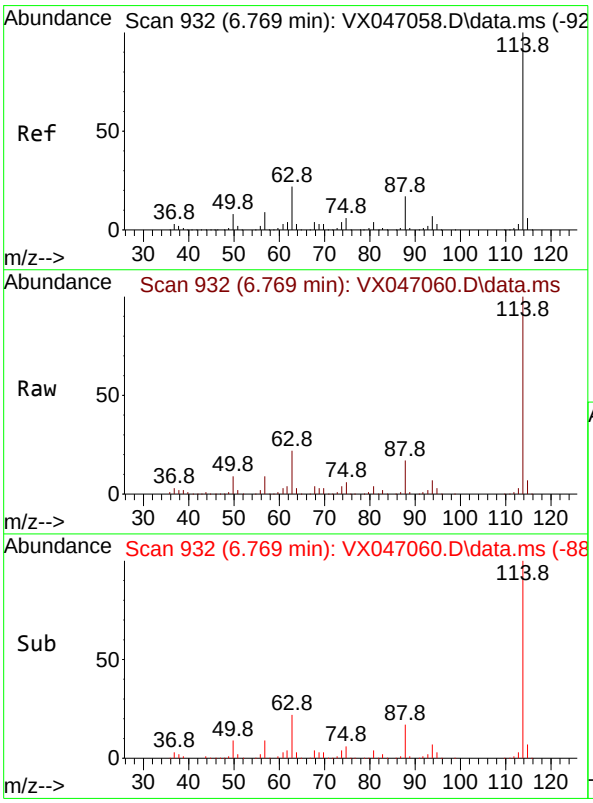
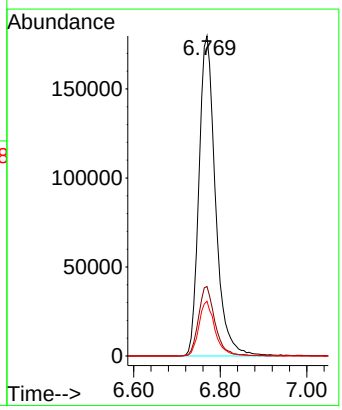
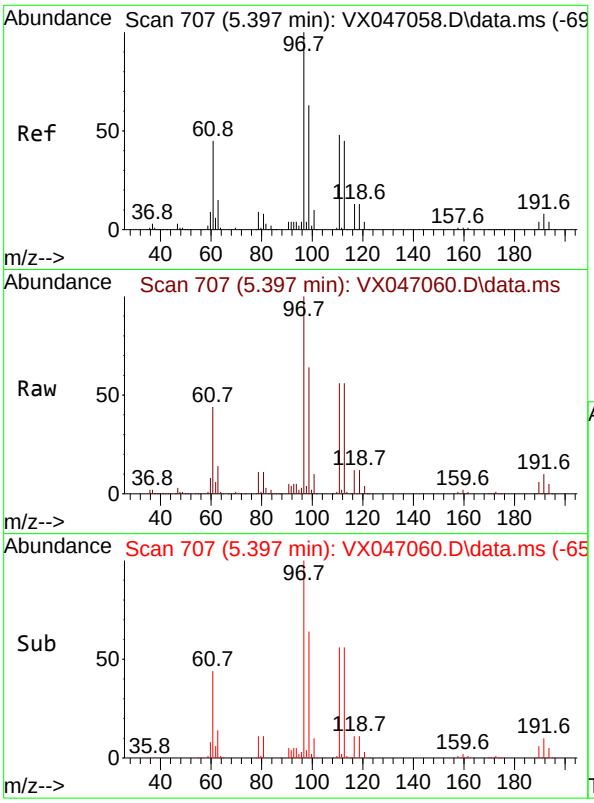


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:114 Resp: 475828

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.2
88	17.1	0.0	33.8

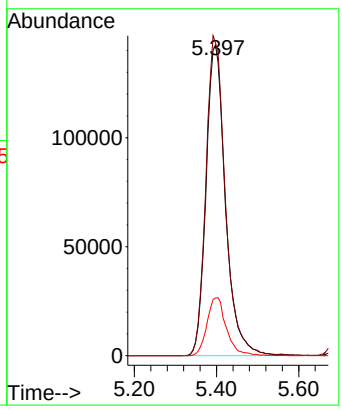




#35
Dibromofluoromethane
Concen: 159.361 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:113 Resp: 46818

Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.6	124.0
192	18.6	14.9	22.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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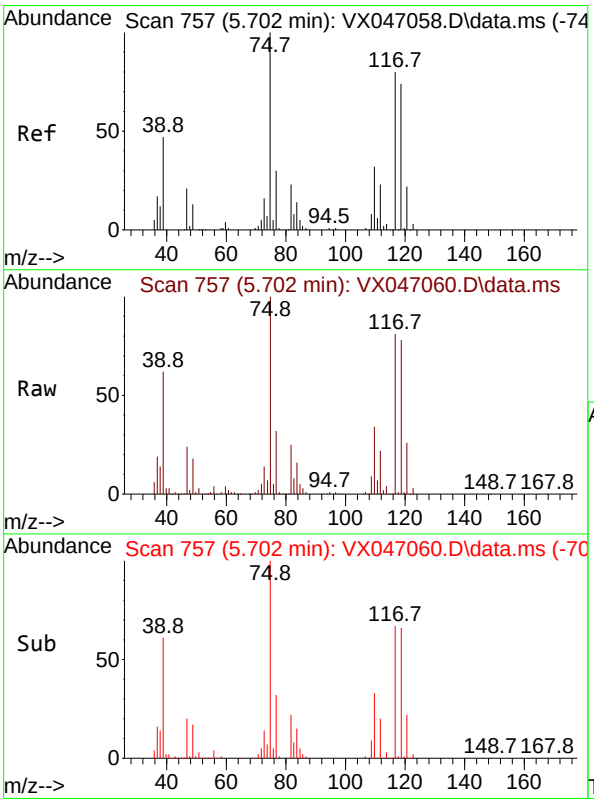
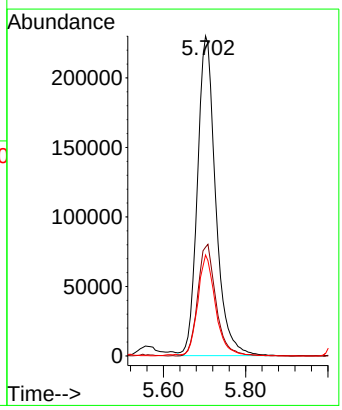
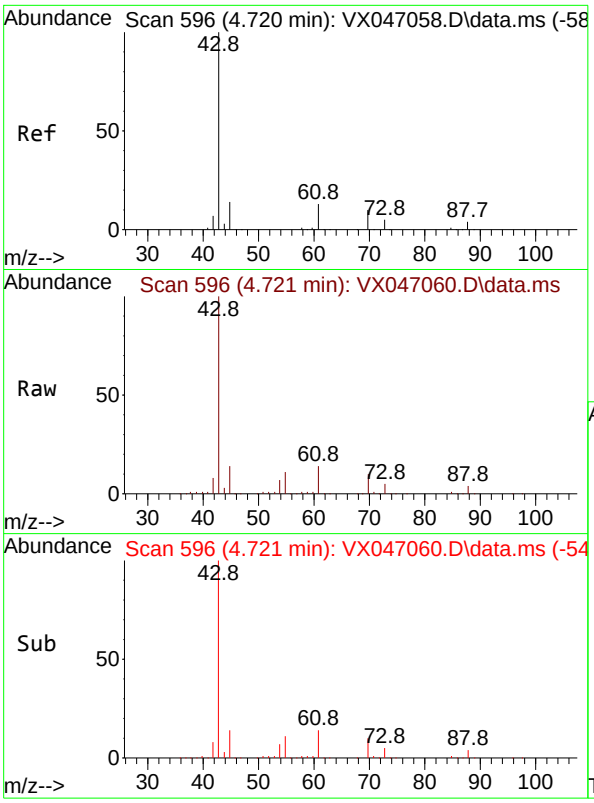


#36
1,1-Dichloropropene
Concen: 141.221 ug/l
RT: 5.702 min Scan# 757
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 75 Resp: 707227

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.2	51.5
77	30.7	25.1	37.7

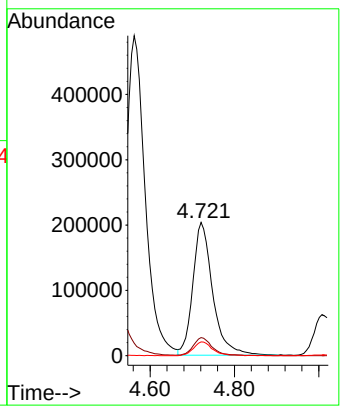




#37
Ethyl Acetate
Concen: 150.587 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 43 Resp: 66460

Ion	Ratio	Lower	Upper
43	100		
61	13.2	10.2	15.2
70	10.1	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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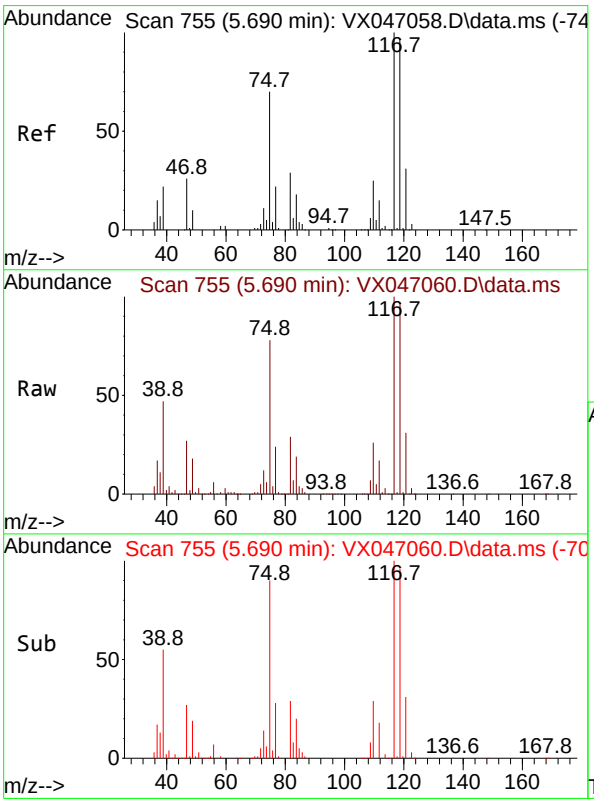
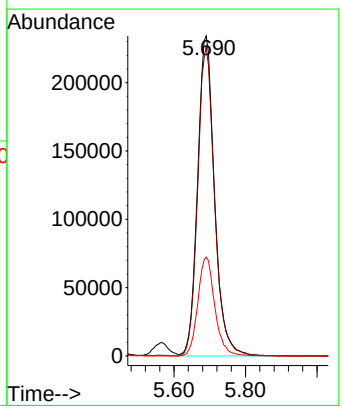
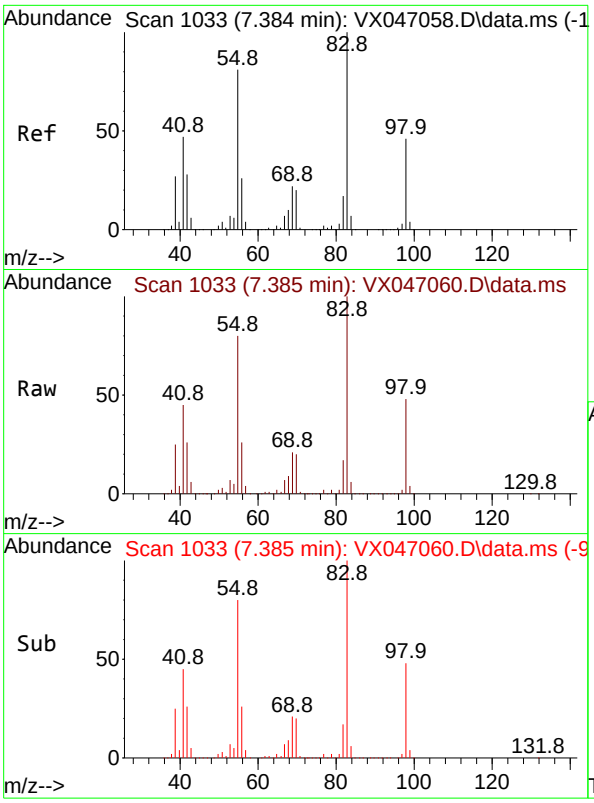


#38
Carbon Tetrachloride
Concen: 144.260 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:117 Resp: 771081

Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.6	115.0
121	30.9	24.4	36.6

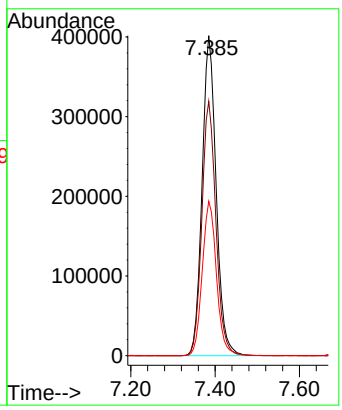




#39
Methylcyclohexane
Concen: 149.137 ug/l
RT: 7.385 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 83 Resp: 93250

Ion	Ratio	Lower	Upper
83	100		
55	79.5	64.5	96.7
98	48.2	36.9	55.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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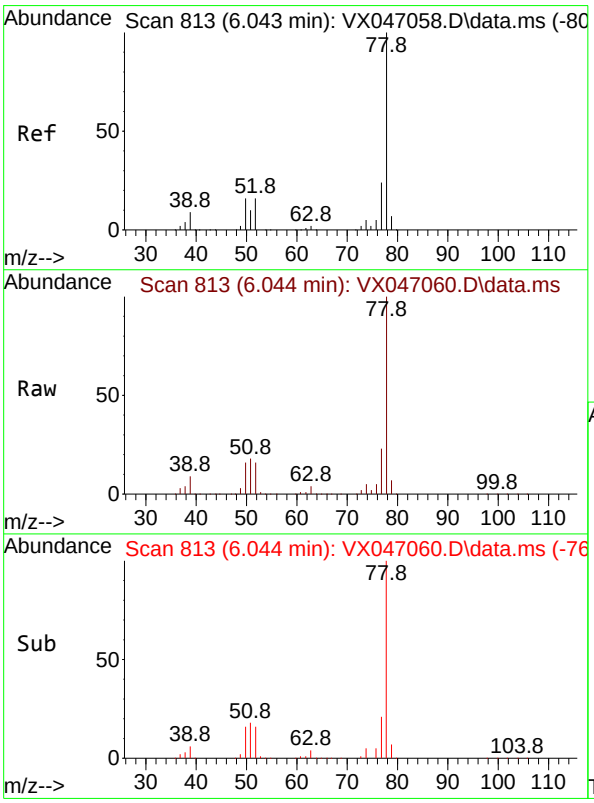
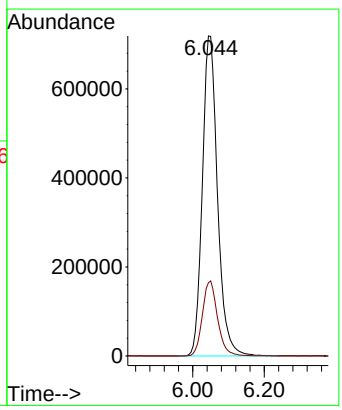
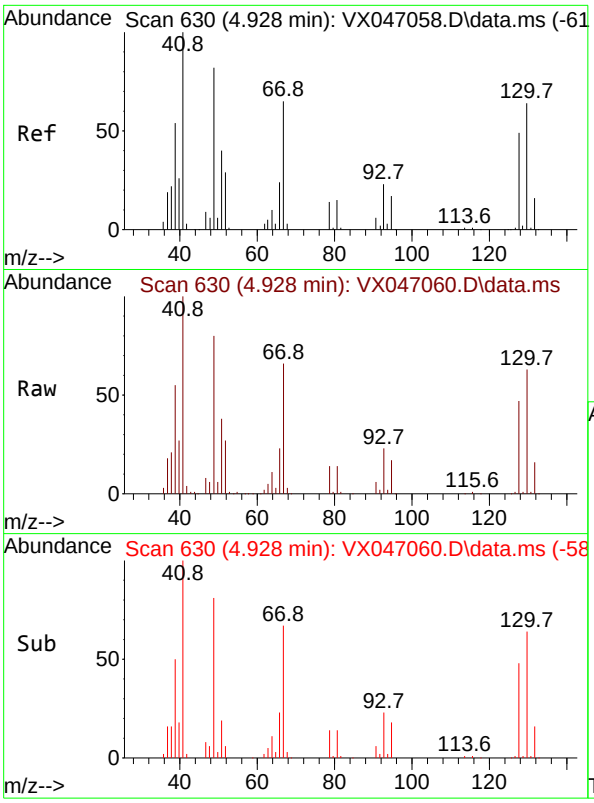


#40
Benzene
Concen: 145.777 ug/l
RT: 6.044 min Scan# 813
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 78 Resp: 2112753

Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.0	28.4

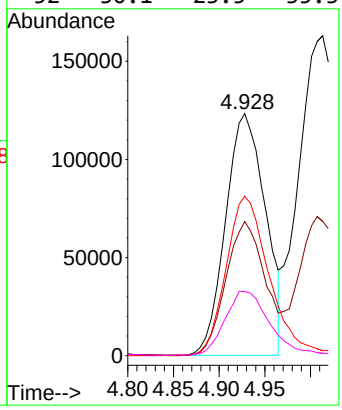




#41
Methacrylonitrile
Concen: 154.886 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 41 Resp: 37371

Ion	Ratio	Lower	Upper
41	100		
39	54.1	44.2	66.2
67	72.4	56.4	84.6
52	30.1	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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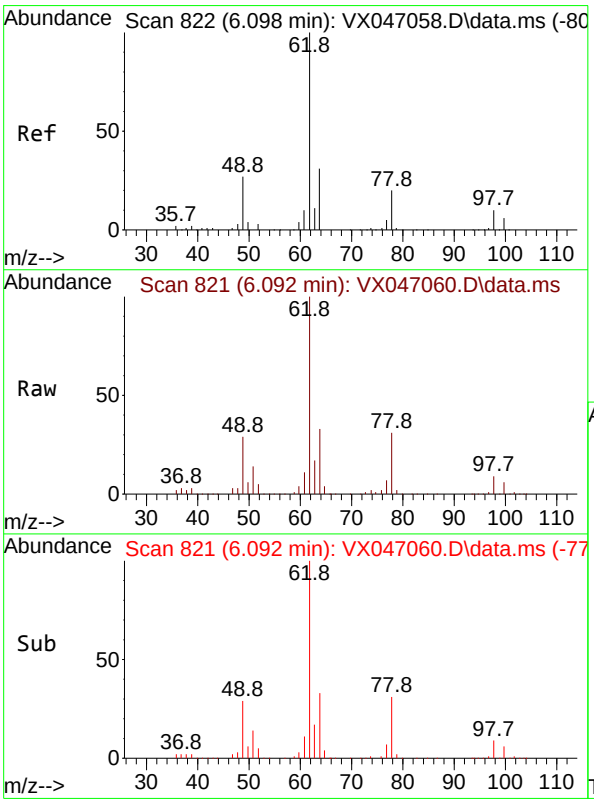
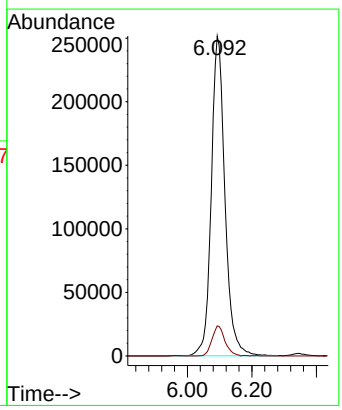
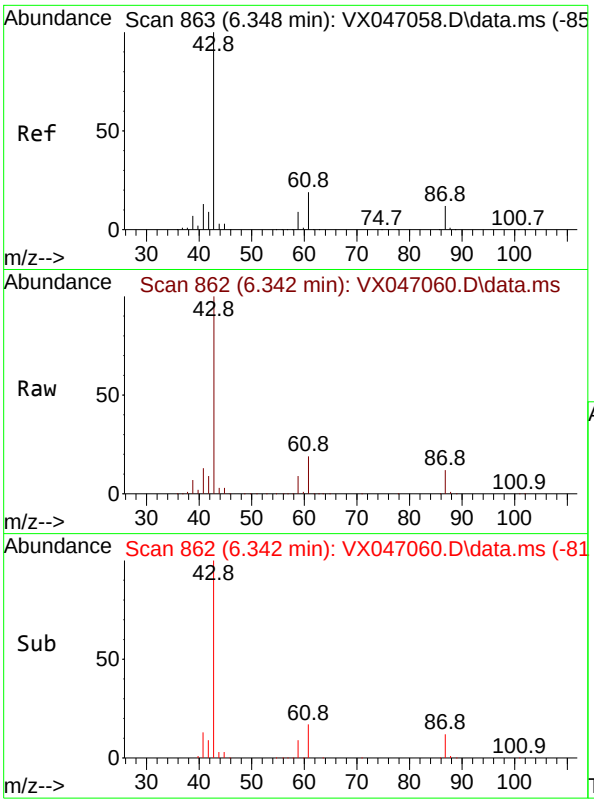


#42
1,2-Dichloroethane
Concen: 144.555 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 62 Resp: 737991

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	18.8

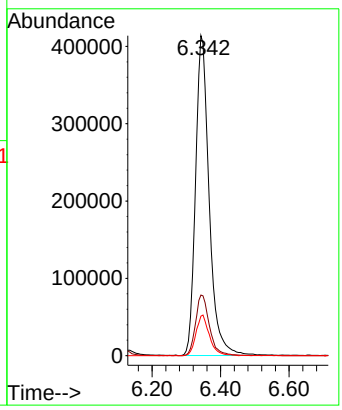




#43
Isopropyl Acetate
Concen: 159.182 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 43 Resp: 114515

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.1	22.7
87	12.5	9.7	14.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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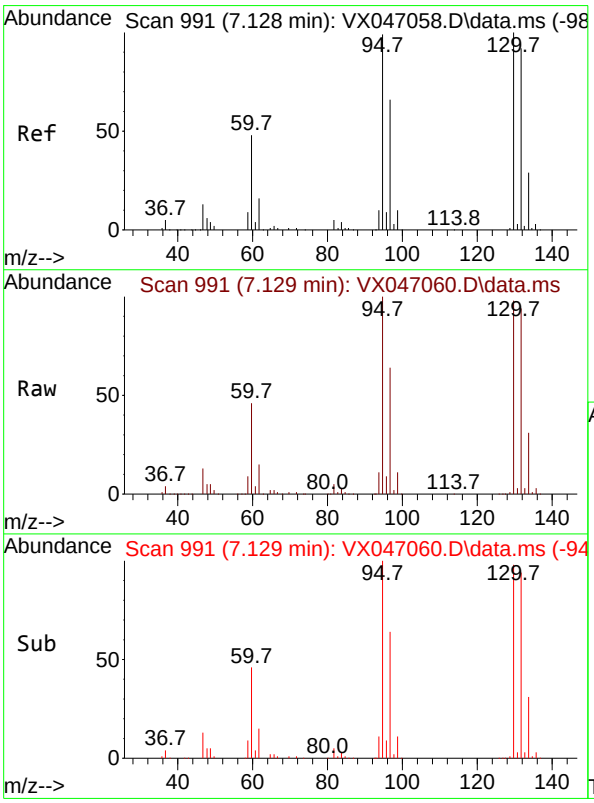
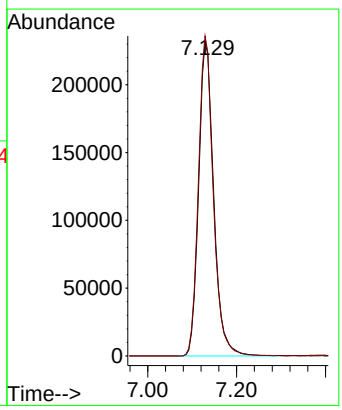
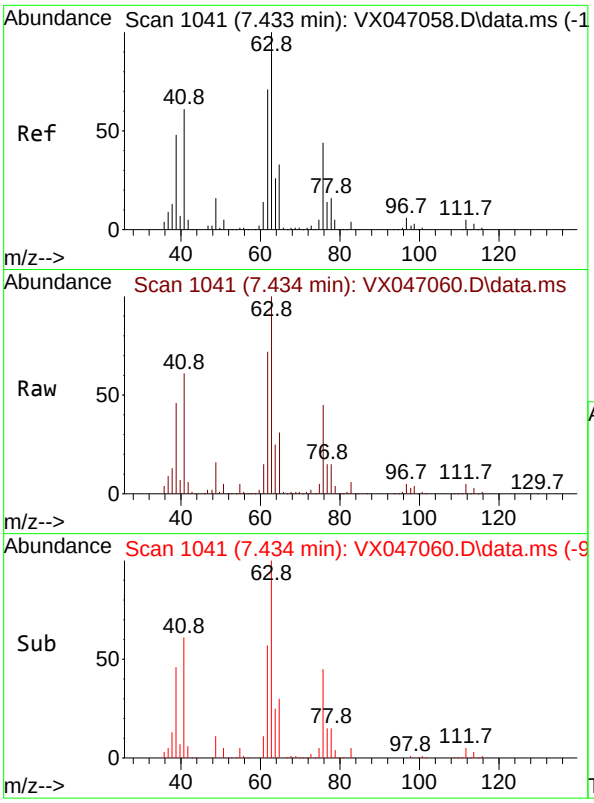


#44
Trichloroethene
Concen: 147.215 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:130 Resp: 547123

Ion	Ratio	Lower	Upper
130	100		
95	101.8	0.0	198.6

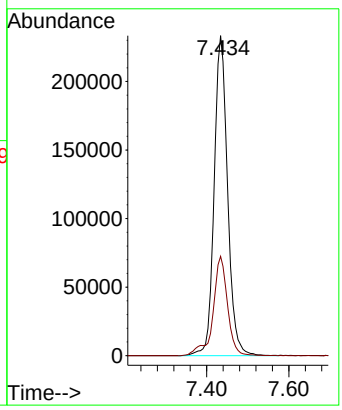




#45
1,2-Dichloropropane
Concen: 145.791 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 63 Resp: 52920

Ion	Ratio	Lower	Upper
63	100		
65	31.1	26.3	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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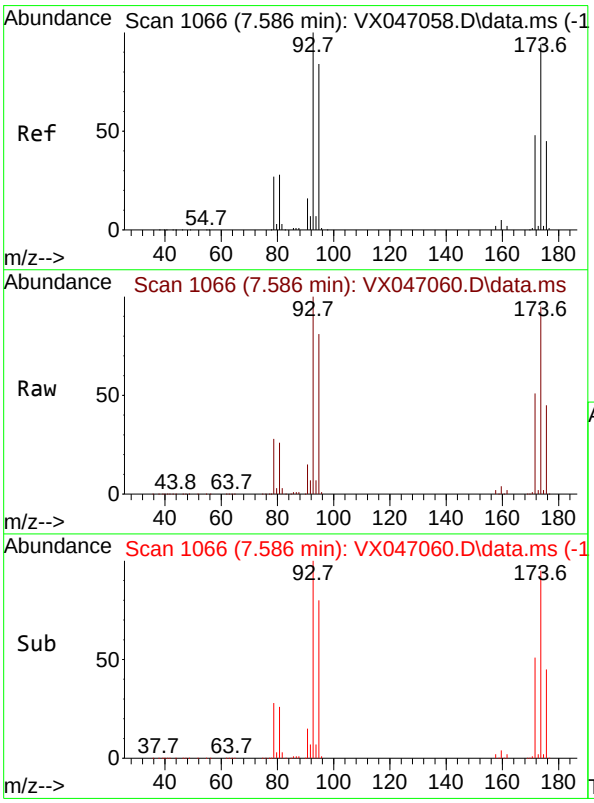
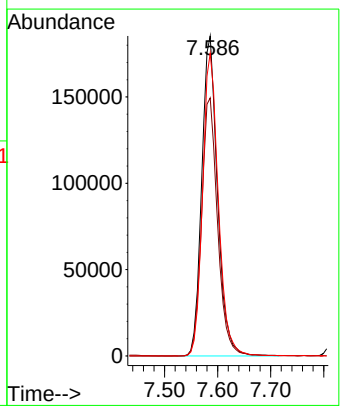
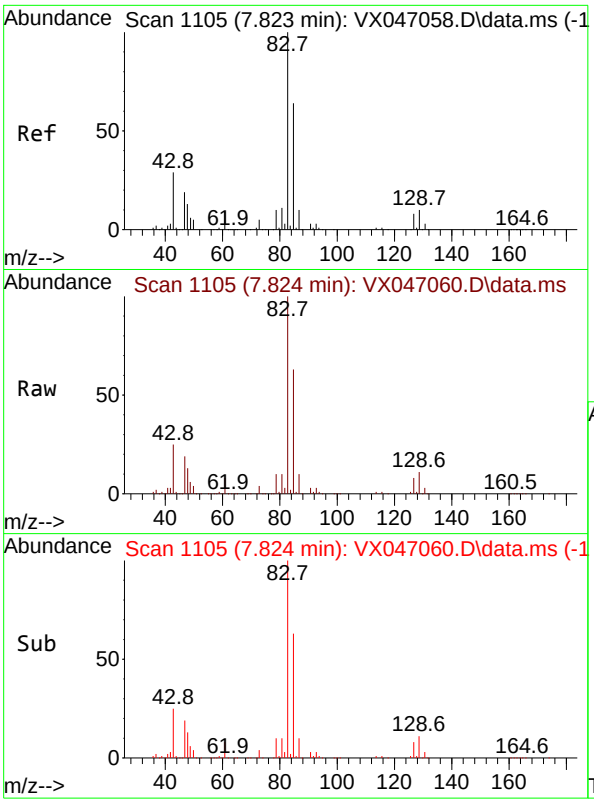


#46
Dibromomethane
Concen: 149.938 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 93 Resp: 381666

Ion	Ratio	Lower	Upper
93	100		
95	81.9	65.9	98.9
174	94.8	74.6	112.0

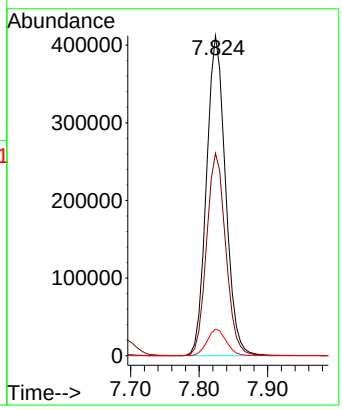




#47
Bromodichloromethane
Concen: 146.693 ug/l
RT: 7.824 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 83 Resp: 79479

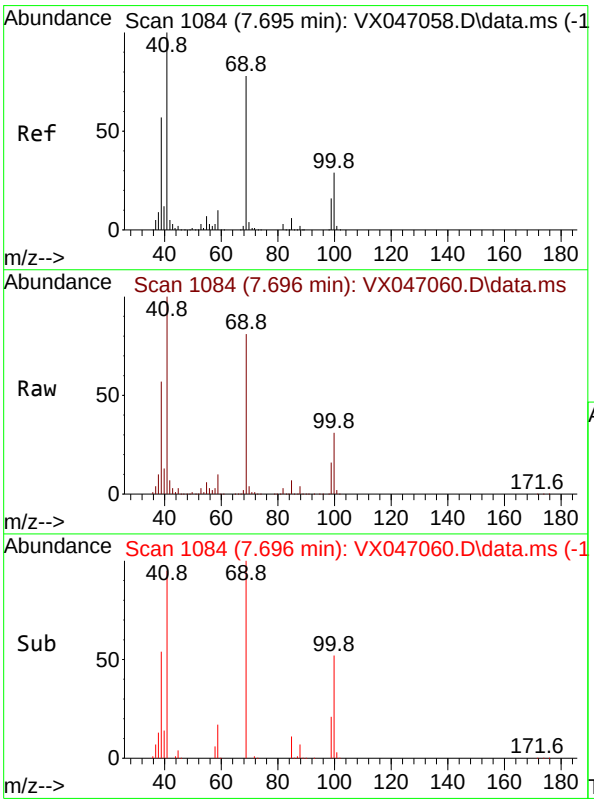
Ion	Ratio	Lower	Upper
83	100		
85	63.2	49.9	74.9
127	8.2	6.6	10.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

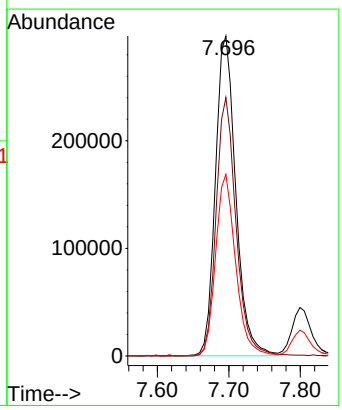
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

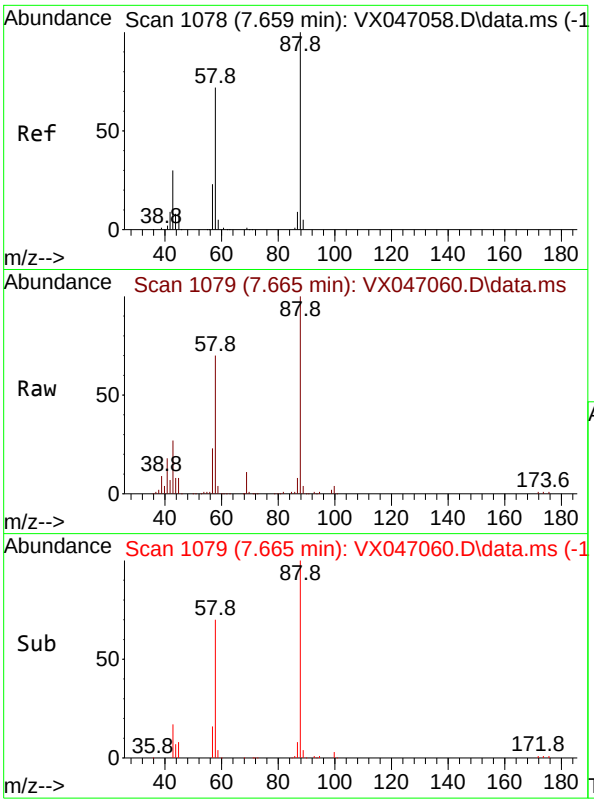


#48
Methyl methacrylate
Concen: 150.339 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 41 Resp: 589190

Ion	Ratio	Lower	Upper
41	100		
69	79.1	62.3	93.5
39	55.7	44.8	67.2





#49
1,4-Dioxane
Concen: 3173.881 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 88 Resp: 14147

Ion	Ratio	Lower	Upper
88	100		
43	37.9	33.6	50.4
58	72.9	58.8	88.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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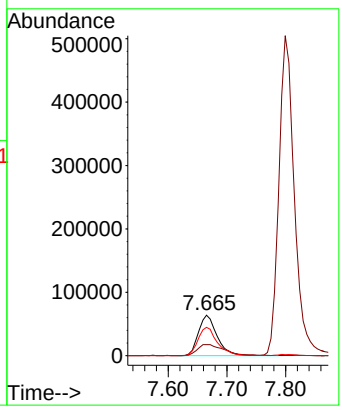
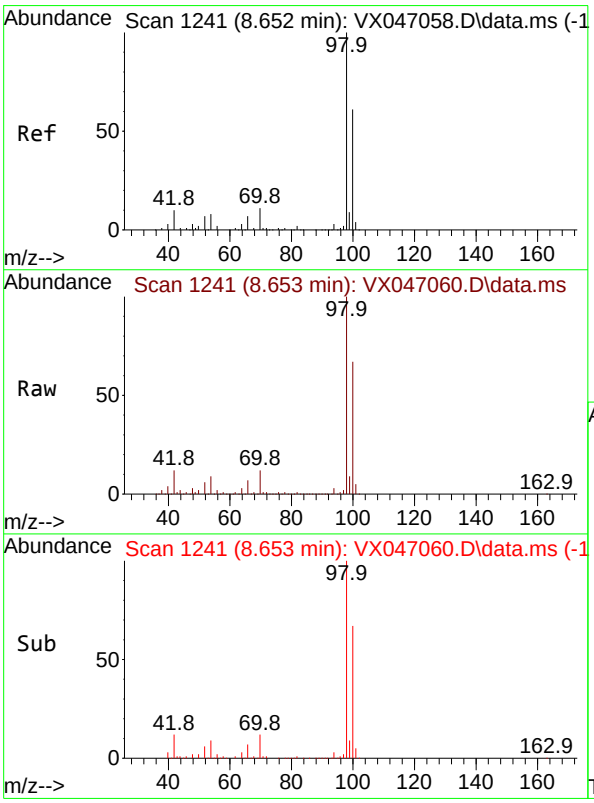
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

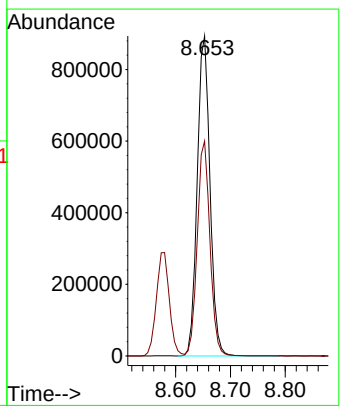


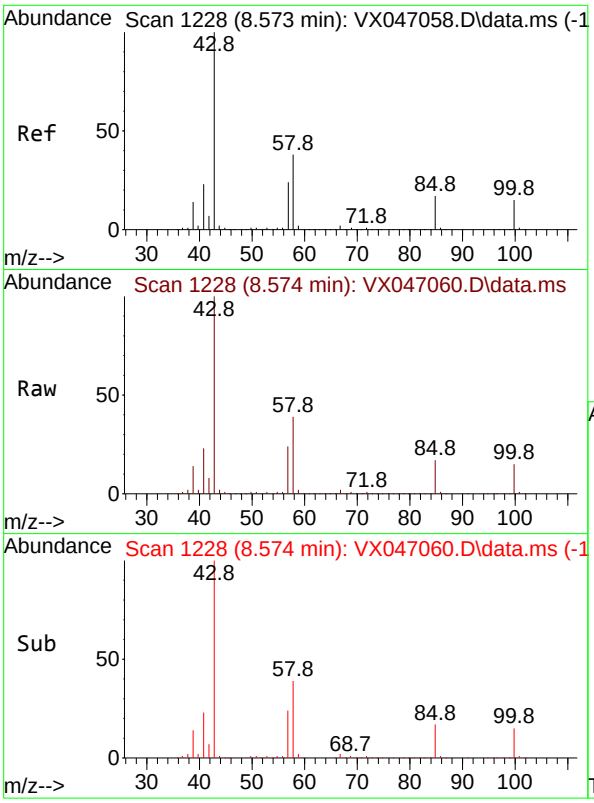


#50
Toluene-d8
Concen: 152.197 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 98 Resp: 1448057

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.3	79.9

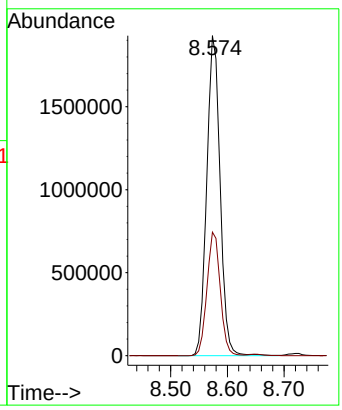




#51
4-Methyl-2-Pentanone
Concen: 735.203 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 43 Resp: 314374

Ion	Ratio	Lower	Upper
43	100		
58	38.5	30.6	45.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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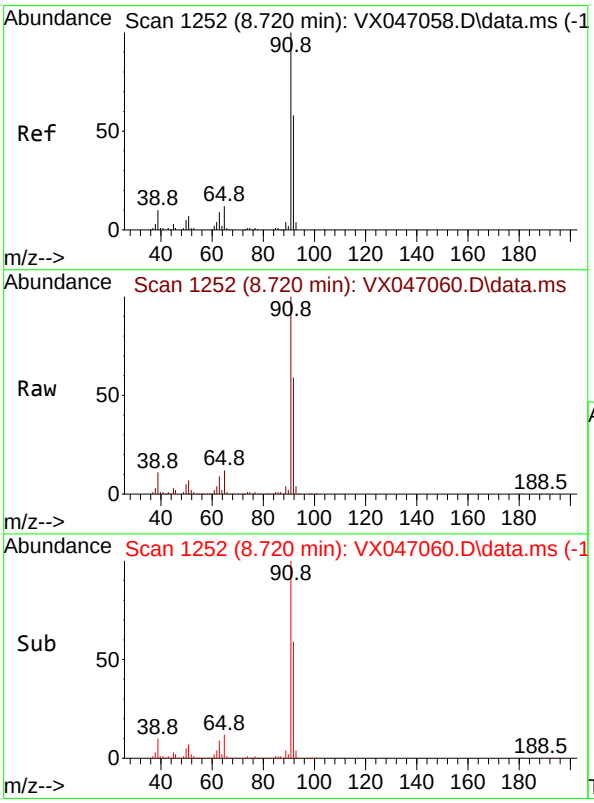
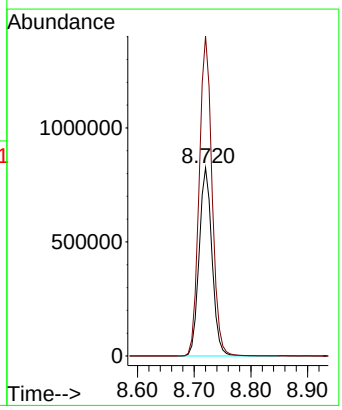
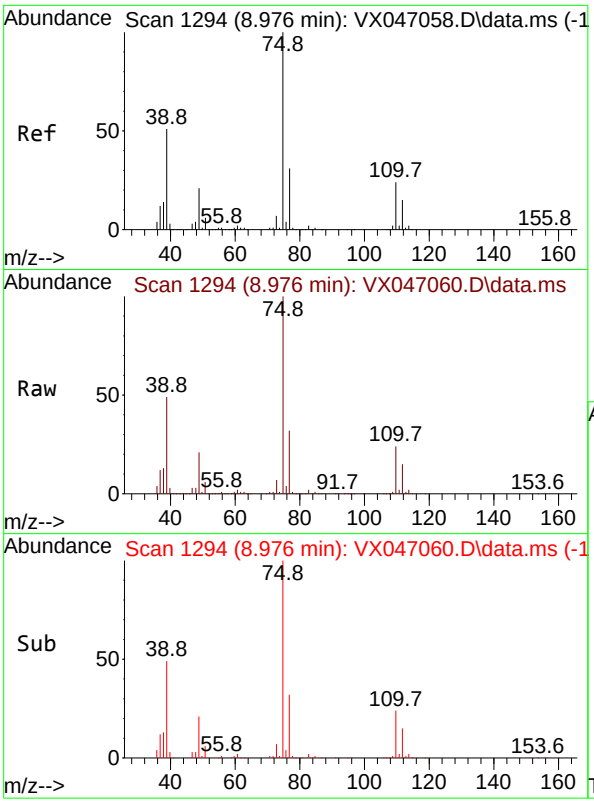


#52
Toluene
Concen: 145.703 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 92 Resp: 1298426

Ion	Ratio	Lower	Upper
92	100		
91	169.8	137.9	206.9

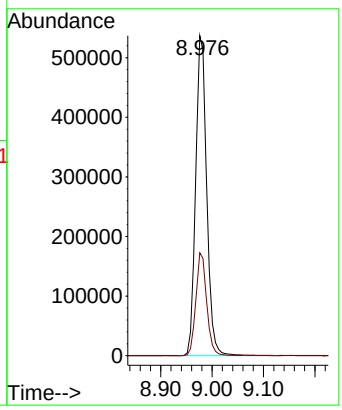




#53
t-1,3-Dichloropropene
Concen: 156.884 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 75 Resp: 80267

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.5	36.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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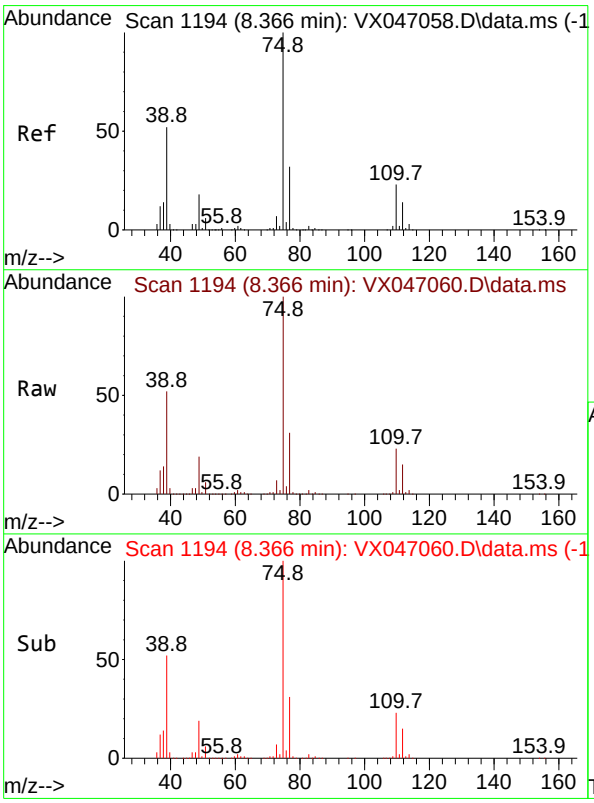
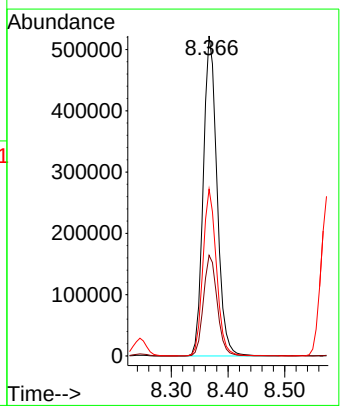
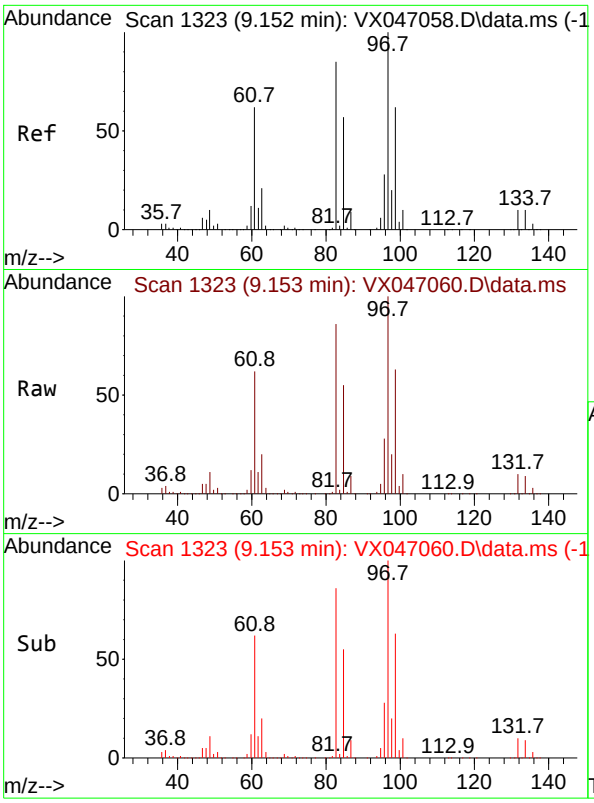


#54
cis-1,3-Dichloropropene
Concen: 156.442 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 75 Resp: 876033

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	52.1	41.8	62.6

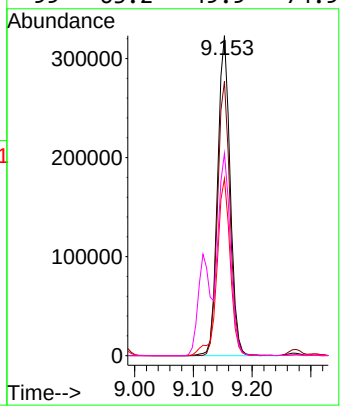




#55
1,1,2-Trichloroethane
Concen: 143.101 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 97 Resp: 47824

Ion	Ratio	Lower	Upper
97	100		
83	85.7	68.0	102.0
85	55.4	45.2	67.8
99	63.2	49.9	74.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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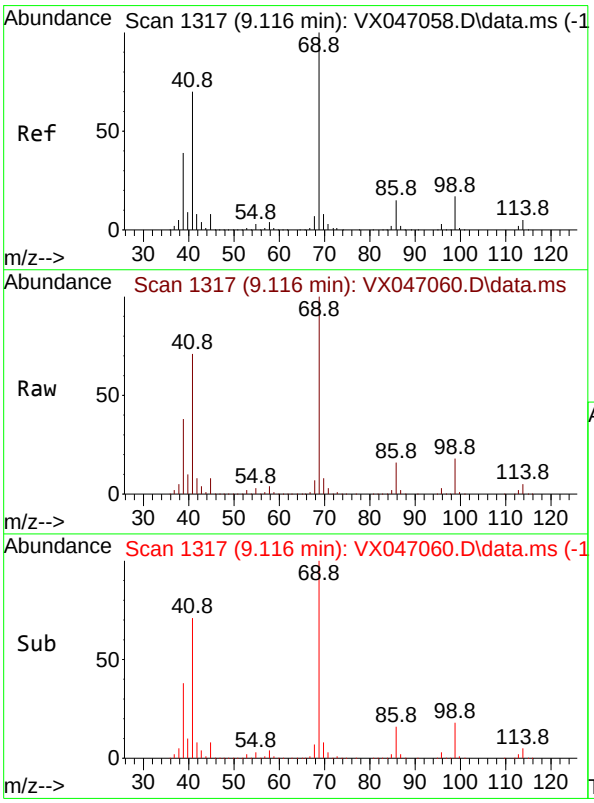
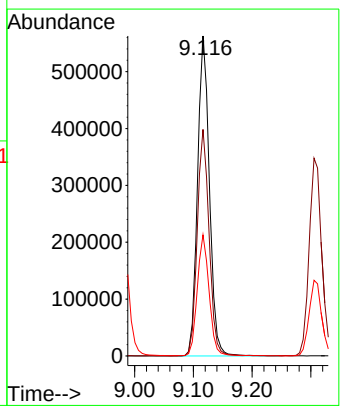
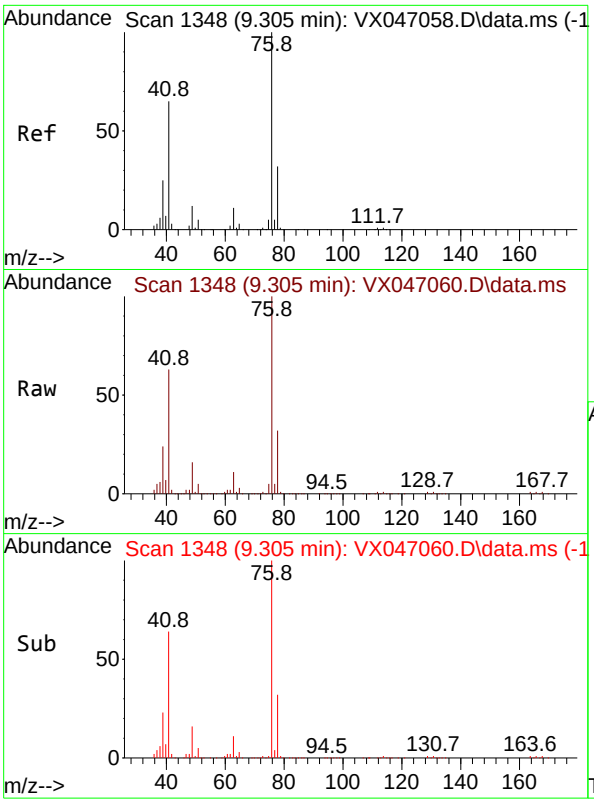


#56
Ethyl methacrylate
Concen: 160.053 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 69 Resp: 791875

Ion	Ratio	Lower	Upper
69	100		
41	70.6	56.1	84.1
39	37.6	31.1	46.7

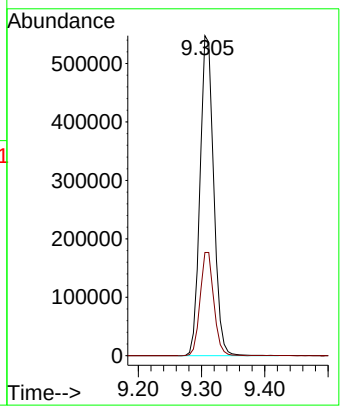




#57
1,3-Dichloropropane
Concen: 141.802 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 76 Resp: 82363

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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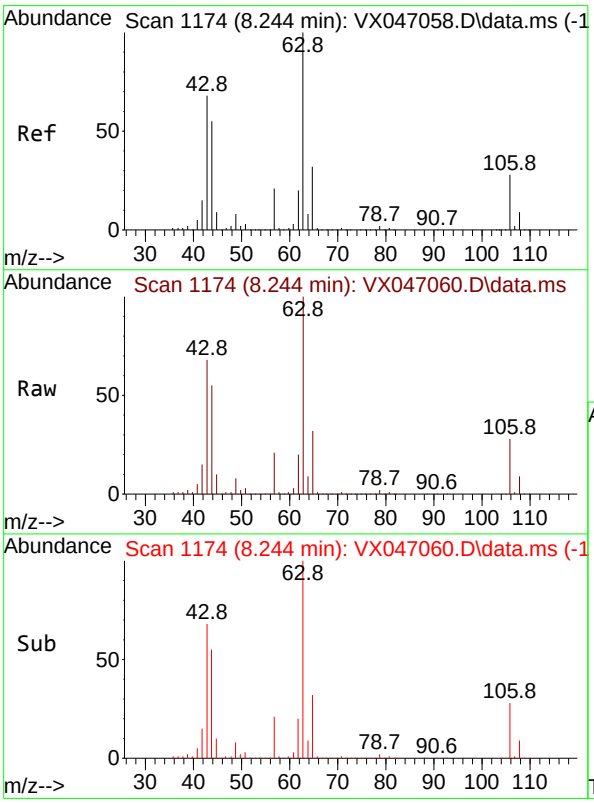
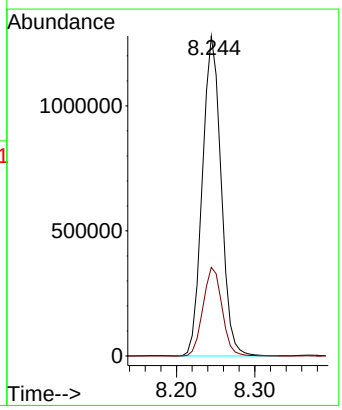
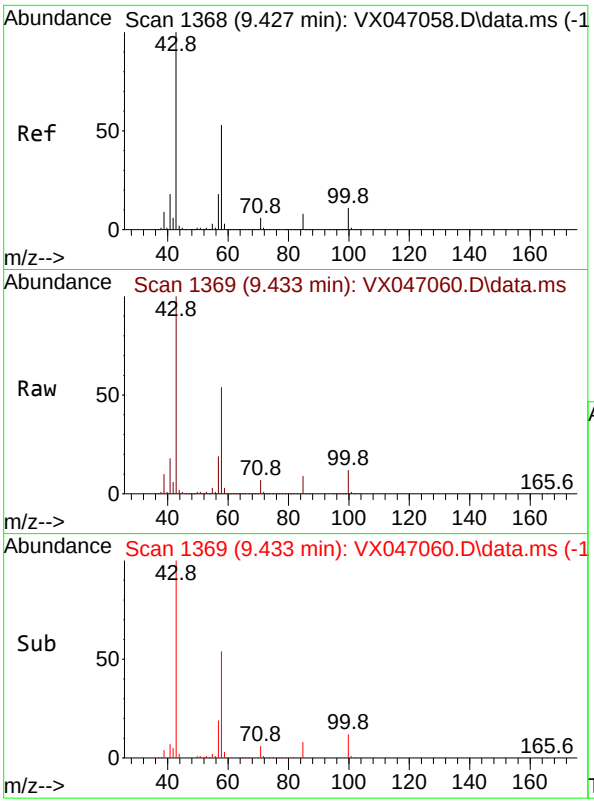


#58
2-Chloroethyl Vinyl ether
Concen: 770.350 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 63 Resp: 2120903

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.2	33.4

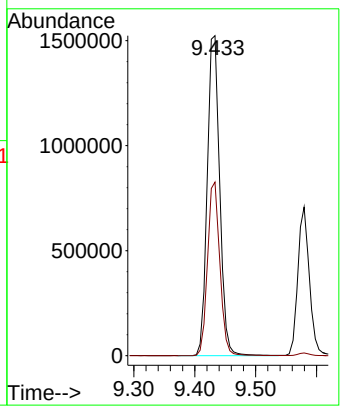




#59
2-Hexanone
Concen: 769.096 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 43 Resp: 217276

Ion	Ratio	Lower	Upper
43	100		
58	53.5	26.5	79.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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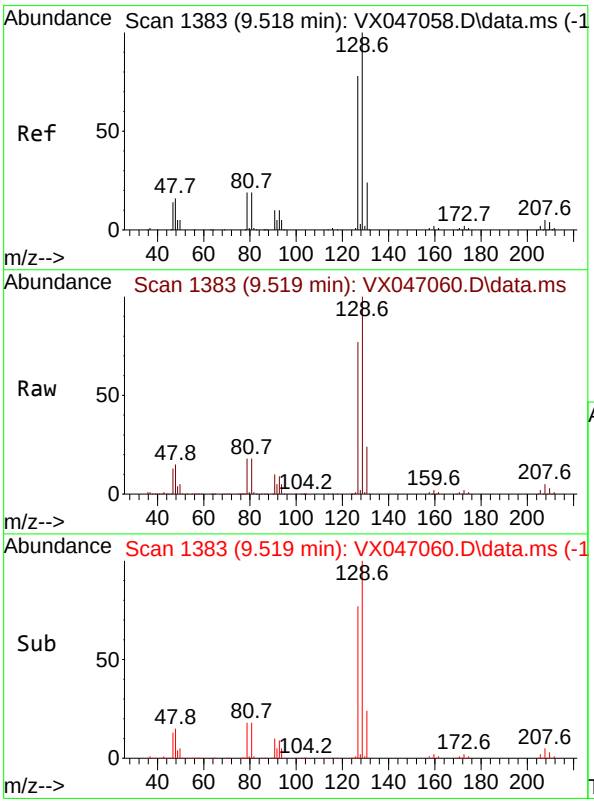
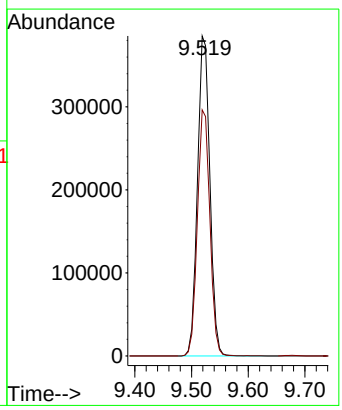
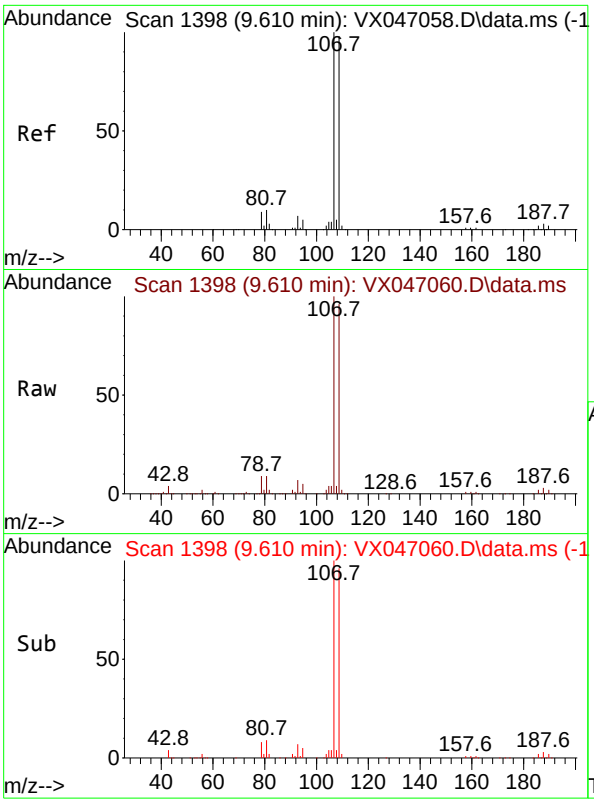


#60
Dibromochloromethane
Concen: 148.786 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:129 Resp: 583183

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.6	115.8





#61
1,2-Dibromoethane
Concen: 143.366 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:107 Resp: 50099

Ion	Ratio	Lower	Upper
107	100		
109	94.7	74.6	112.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
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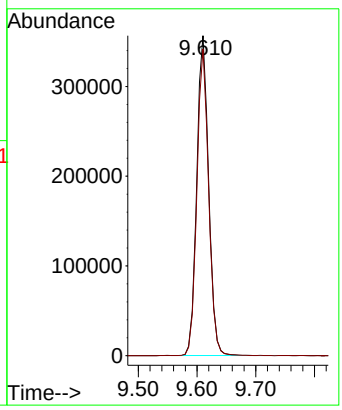
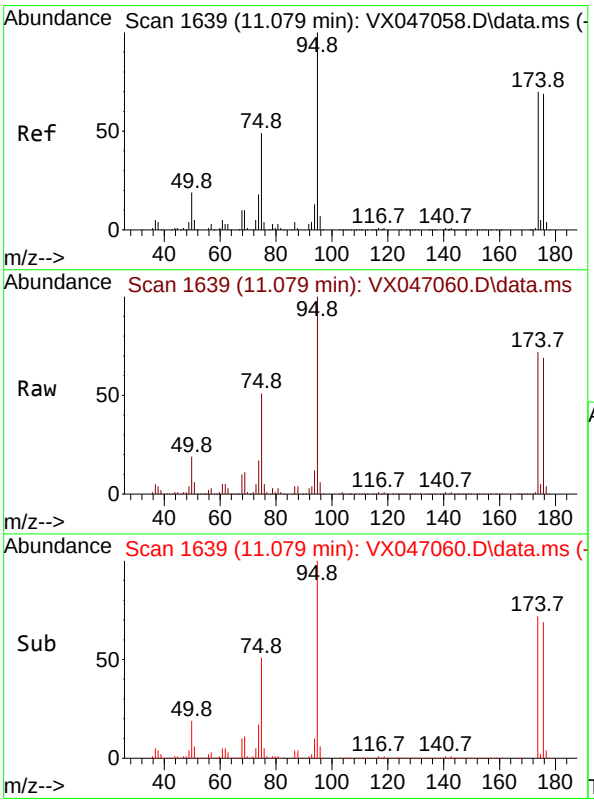
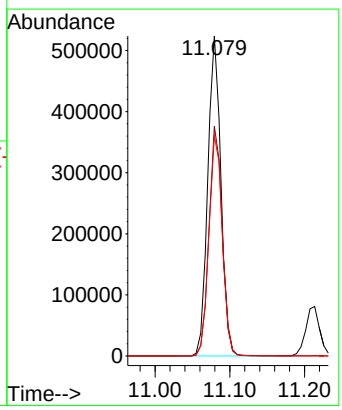


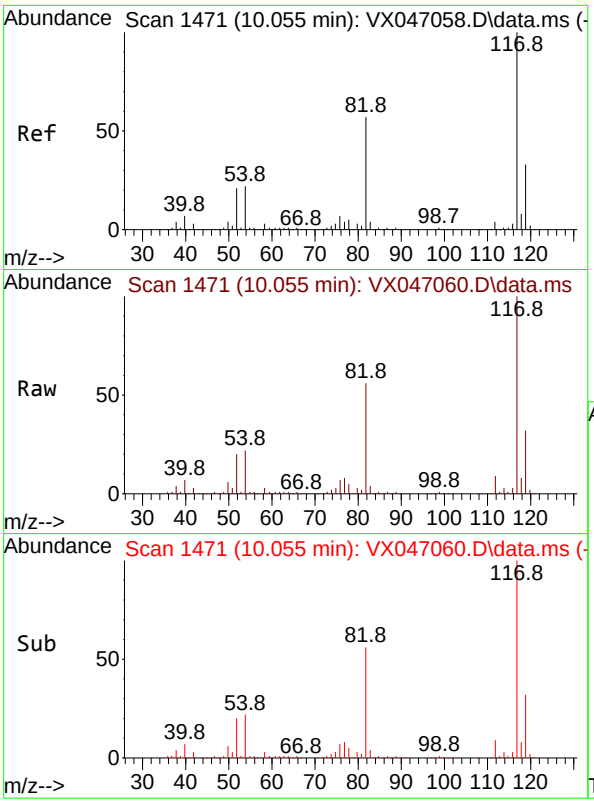


#62
4-Bromofluorobenzene
Concen: 154.987 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 95 Resp: 635473

Ion	Ratio	Lower	Upper
95	100		
174	72.8	0.0	144.6
176	70.6	0.0	139.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:117 Resp: 42081

Ion	Ratio	Lower	Upper
117	100		
82	55.7	45.4	68.2
119	32.3	26.1	39.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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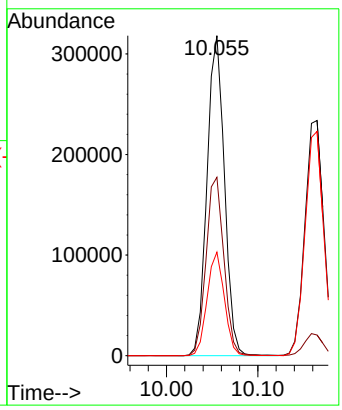
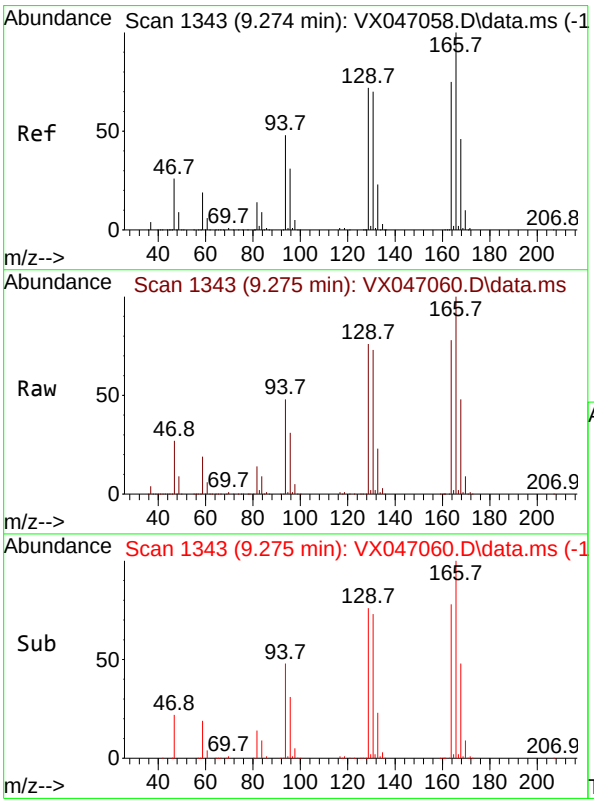
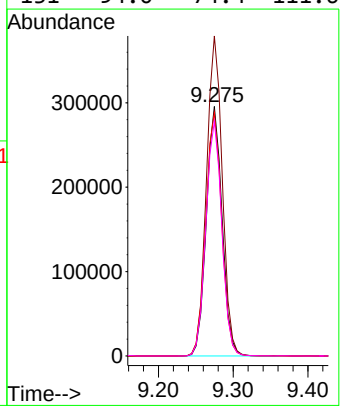


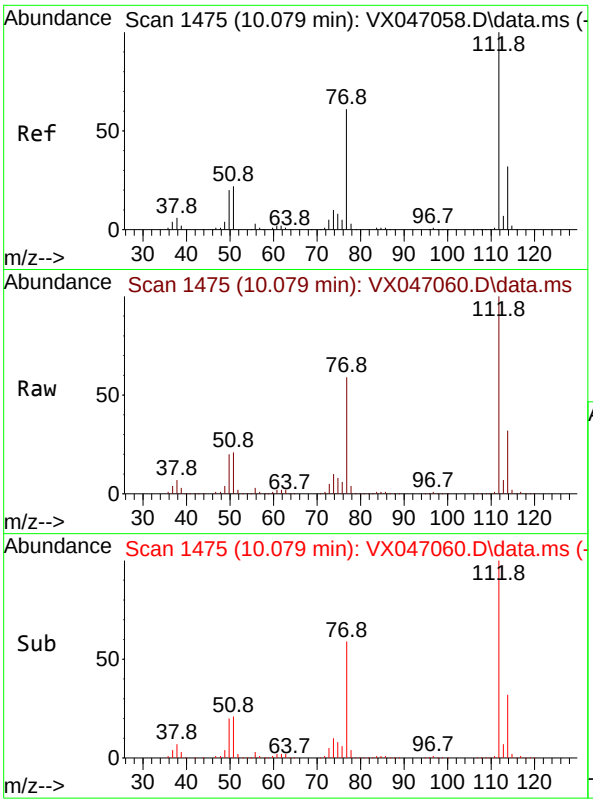


#64
Tetrachloroethene
Concen: 142.999 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:164 Resp: 433805

Ion	Ratio	Lower	Upper
164	100		
166	128.3	106.2	159.4
129	97.6	76.6	114.8
131	94.0	74.4	111.6

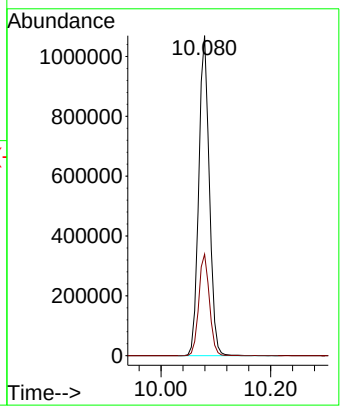




#65
Chlorobenzene
Concen: 145.306 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:112 Resp: 143248

Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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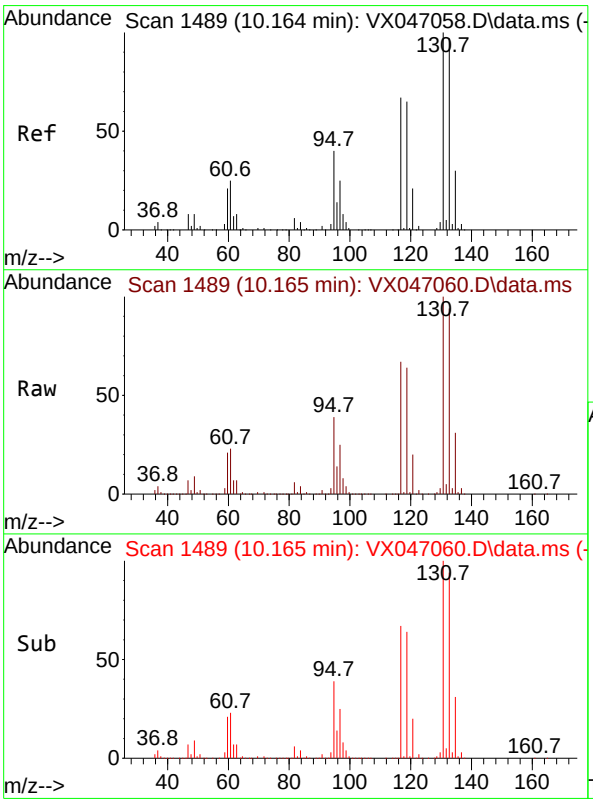
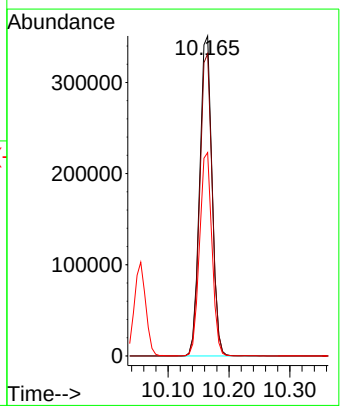
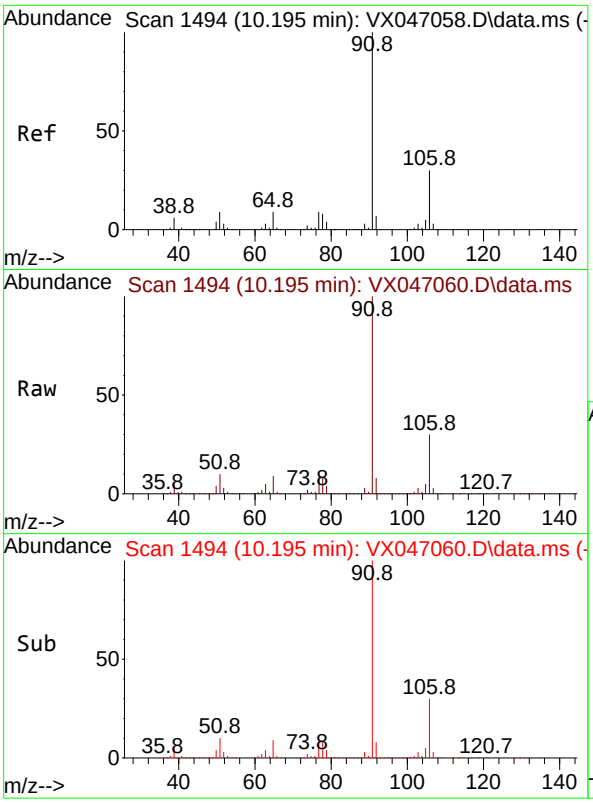


#66
1,1,1,2-Tetrachloroethane
Concen: 149.242 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:131 Resp: 495347

Ion	Ratio	Lower	Upper
131	100		
133	94.9	48.4	145.3
119	63.9	32.4	97.0

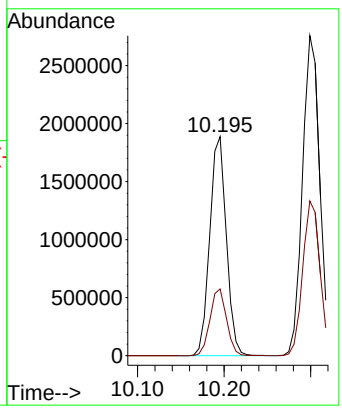




#67
Ethyl Benzene
Concen: 145.559 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 91 Resp: 250899

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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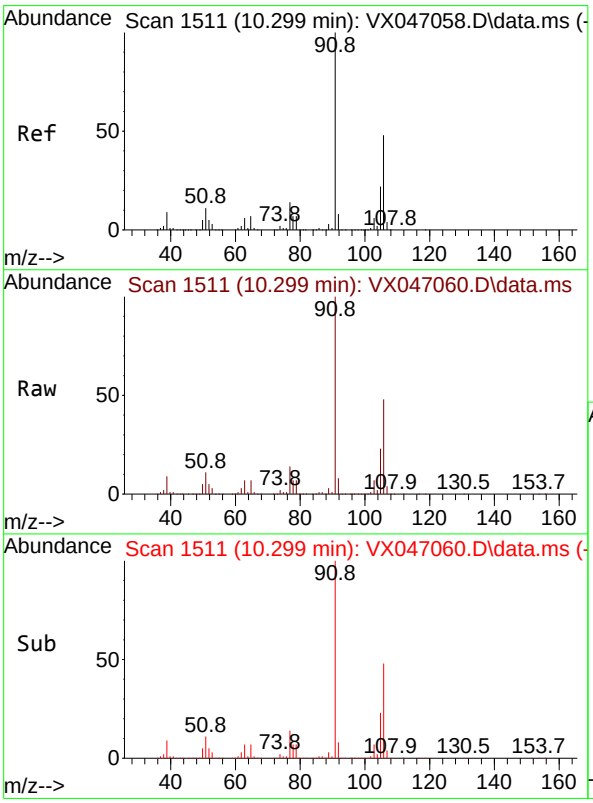
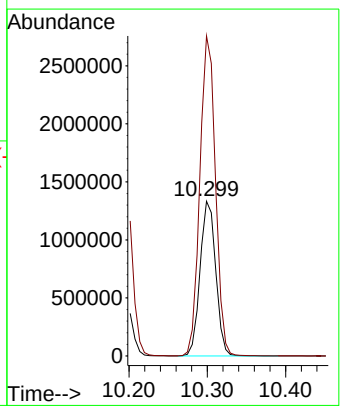
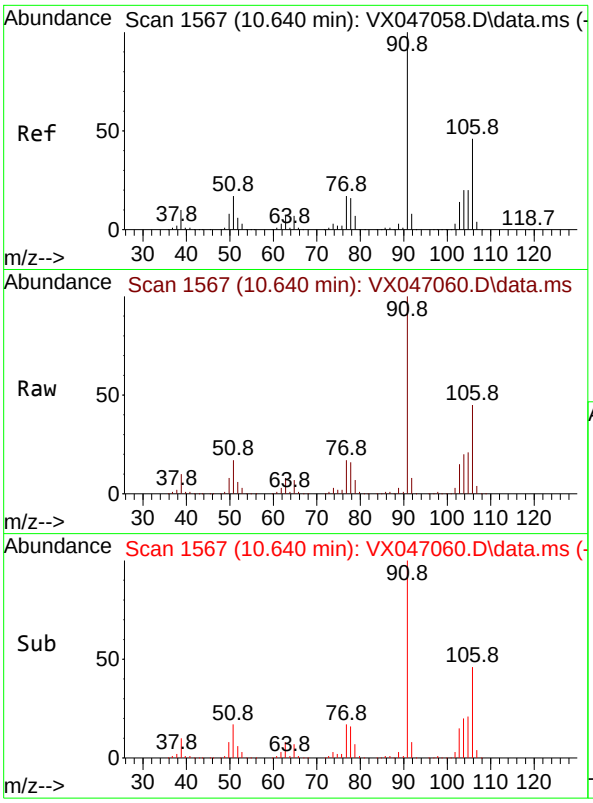


#68
m/p-Xylenes
Concen: 286.495 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:106 Resp: 1848008

Ion	Ratio	Lower	Upper
106	100		
91	206.7	167.4	251.0

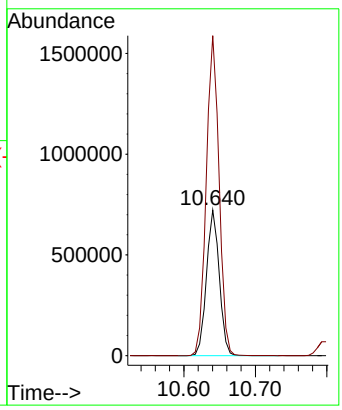




#69
o-Xylene
Concen: 146.292 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:106 Resp: 89770

Ion	Ratio	Lower	Upper
106	100		
91	220.4	110.3	331.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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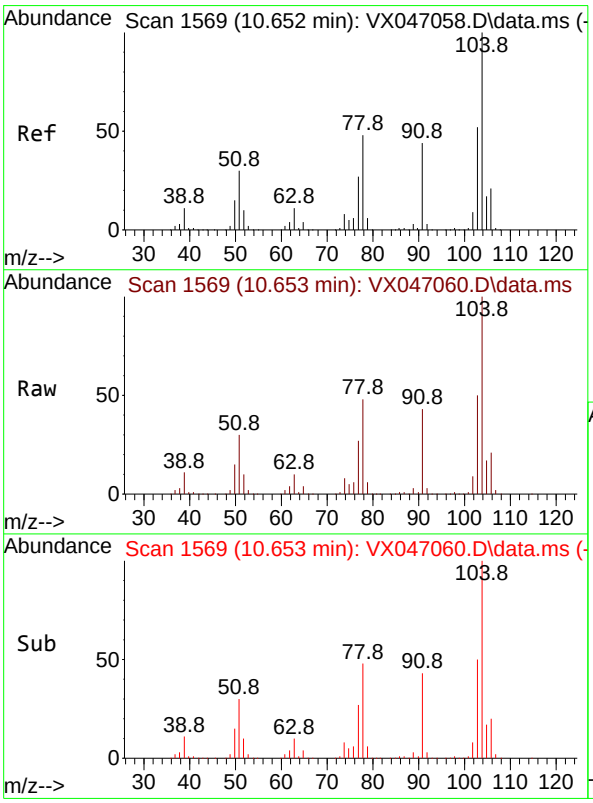
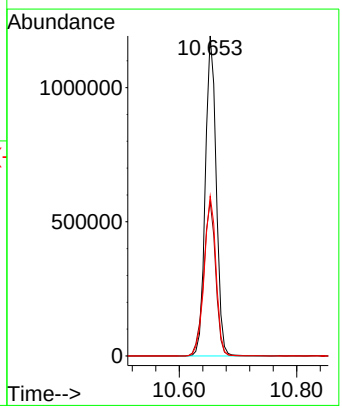
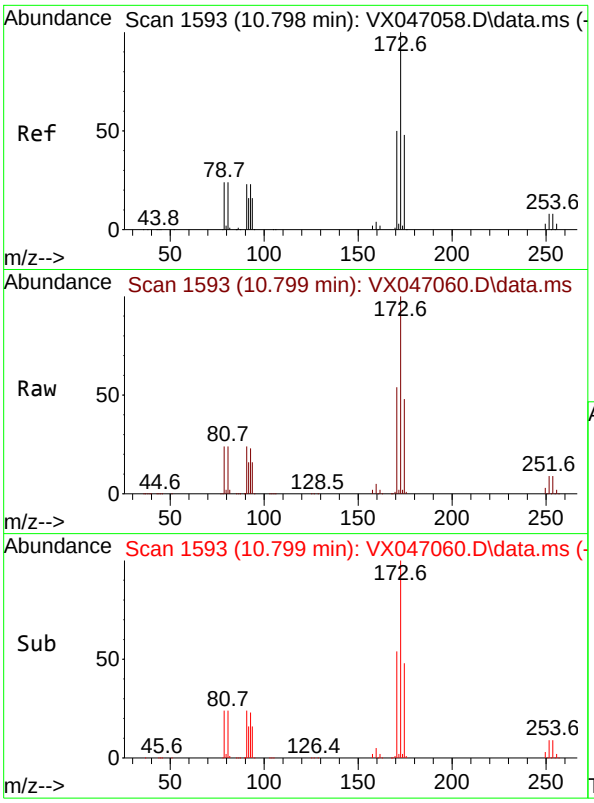


#70
Styrene
Concen: 146.214 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:104 Resp: 1538516

Ion	Ratio	Lower	Upper
104	100		
78	53.1	42.0	63.0
103	54.3	43.8	65.6

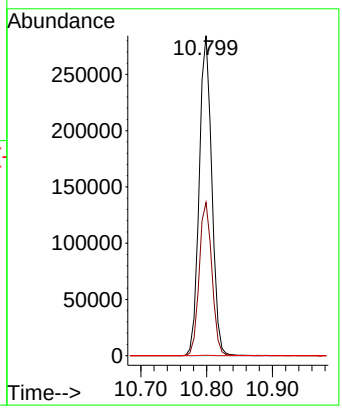




#71
Bromoform
Concen: 149.877 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:173 Resp: 37788

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.2	72.6
254	0.1	0.1	0.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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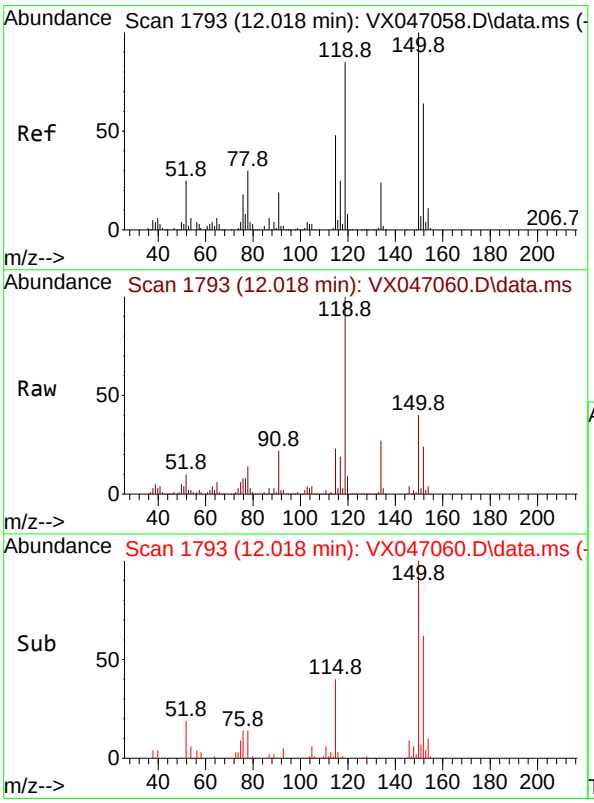
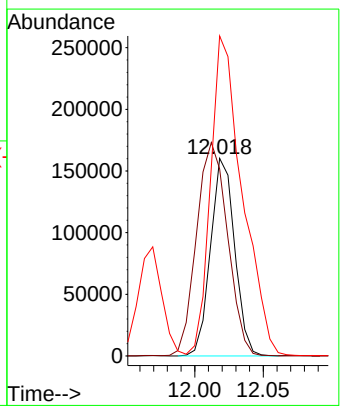
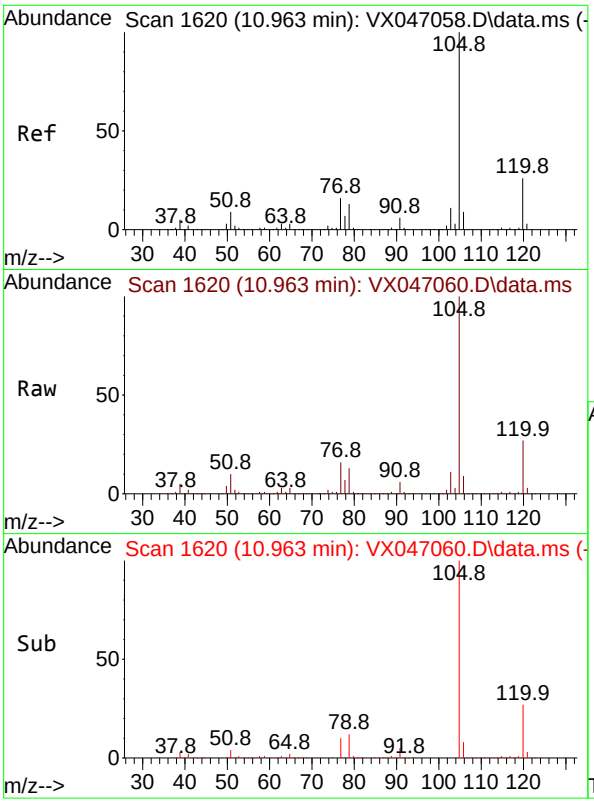


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:152 Resp: 196123

Ion	Ratio	Lower	Upper
152	100		
115	139.4	45.6	136.7#
150	213.4	0.0	354.6

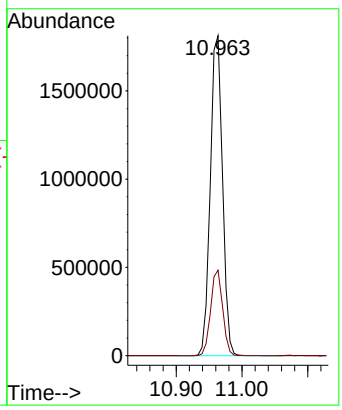




#73
Isopropylbenzene
Concen: 151.299 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:105 Resp: 234102

Ion	Ratio	Lower	Upper
105	100		
120	26.3	12.9	38.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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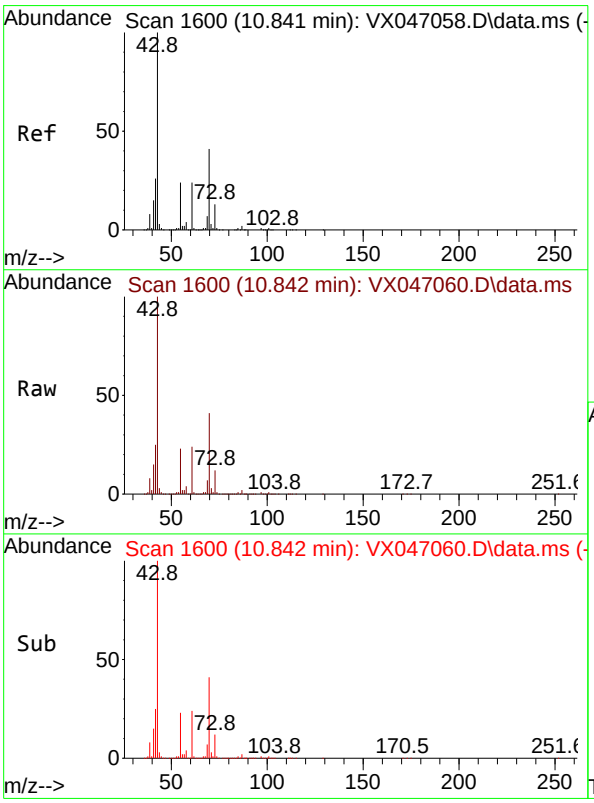
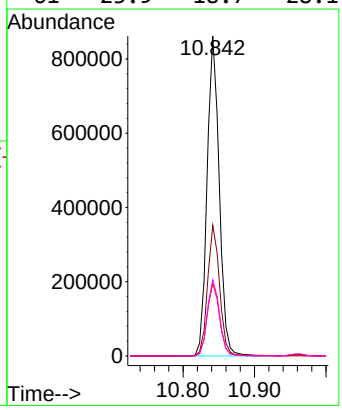
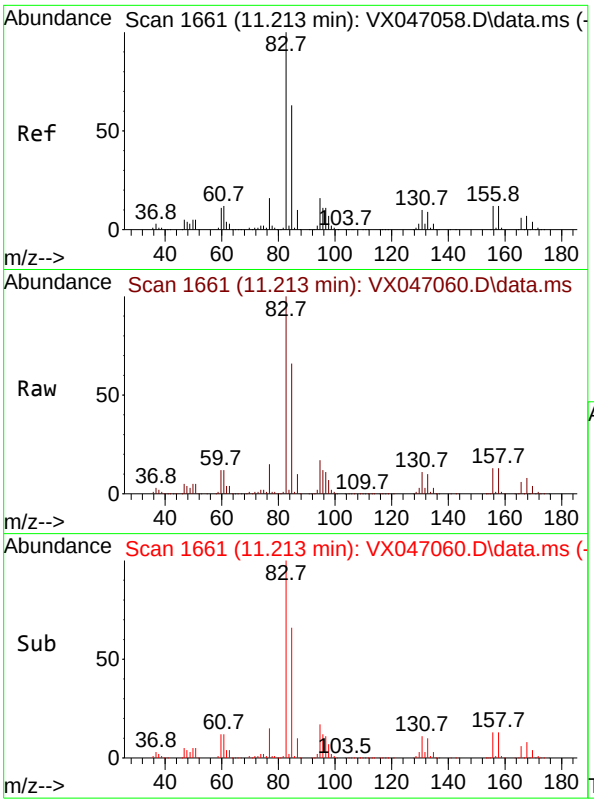


#74
N-amyl acetate
Concen: 164.856 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 43 Resp: 1017450

Ion	Ratio	Lower	Upper
43	100		
70	40.3	32.3	48.5
55	23.1	18.9	28.3
61	23.9	18.7	28.1

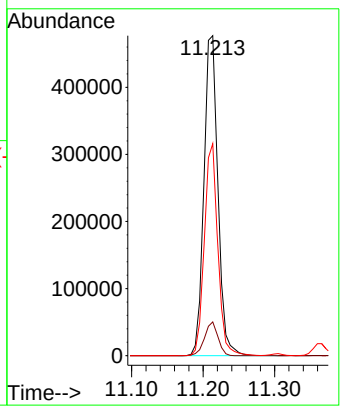




#75
1,1,2,2-Tetrachloroethane
Concen: 146.858 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 83 Resp: 64908

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	63.9	32.0	96.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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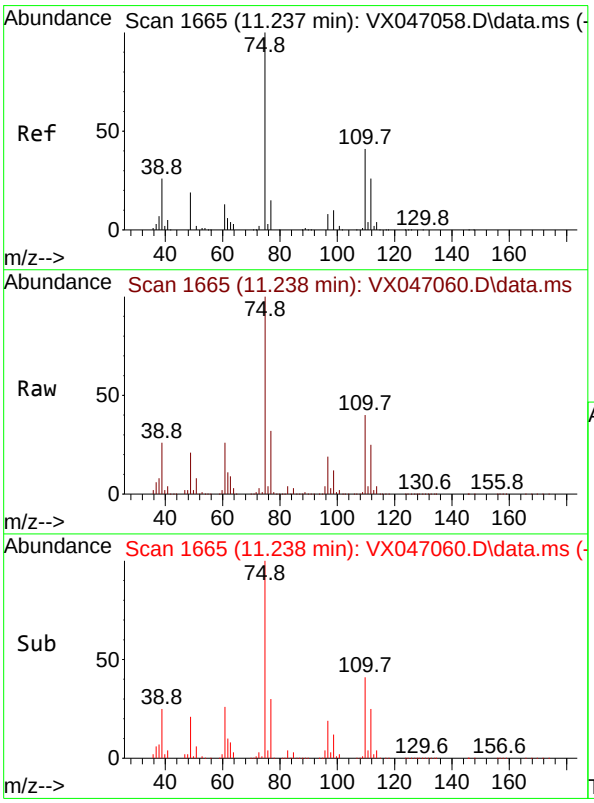
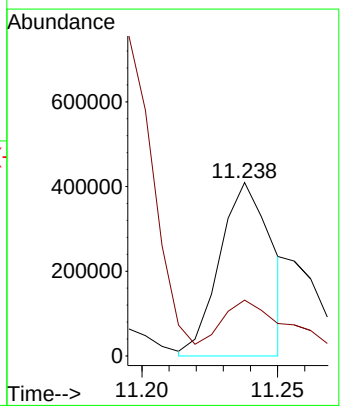
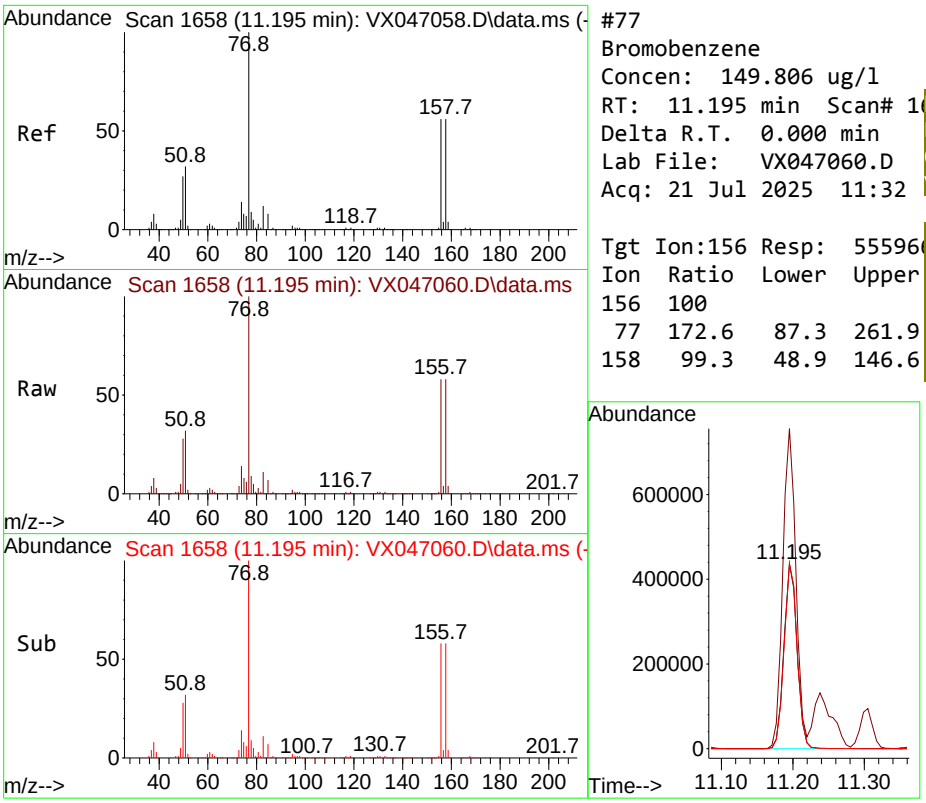


#76
1,2,3-Trichloropropane
Concen: 149.549 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 75 Resp: 542883

Ion	Ratio	Lower	Upper
75	100		
77	43.5	21.6	65.0





#77
Bromobenzene
Concen: 149.806 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:156 Resp: 55596

Ion	Ratio	Lower	Upper
156	100		
77	172.6	87.3	261.9
158	99.3	48.9	146.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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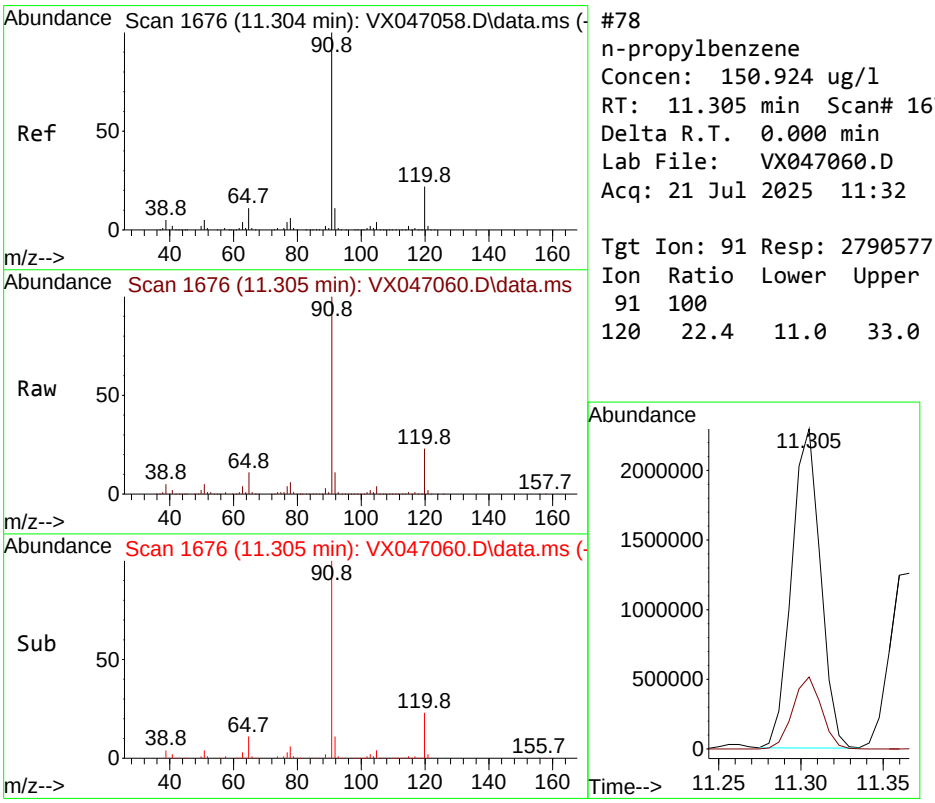
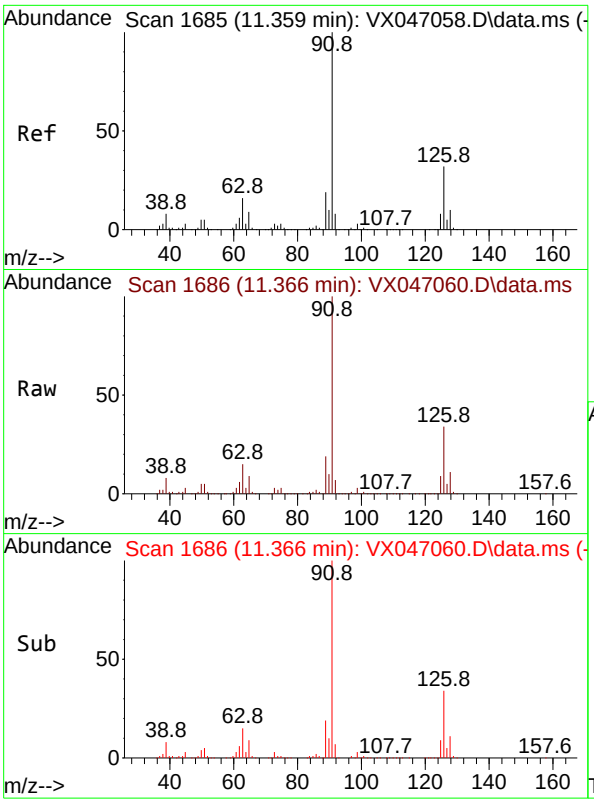


#78
n-propylbenzene
Concen: 150.924 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 91 Resp: 2790577

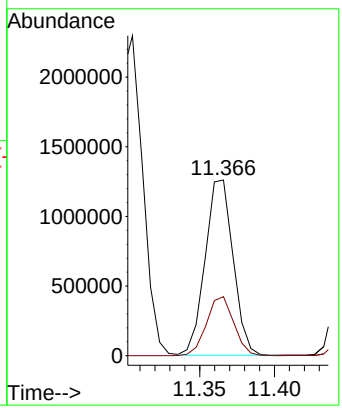
Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.0	33.0



#79
2-Chlorotoluene
Concen: 148.487 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 91 Resp: 164117

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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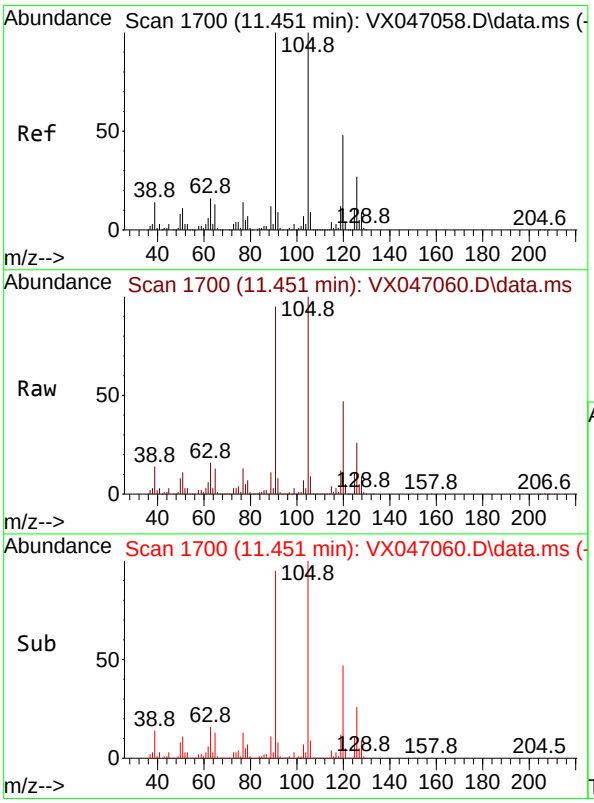
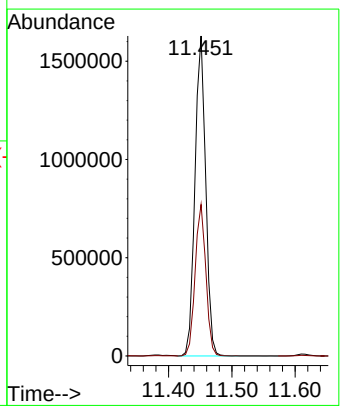
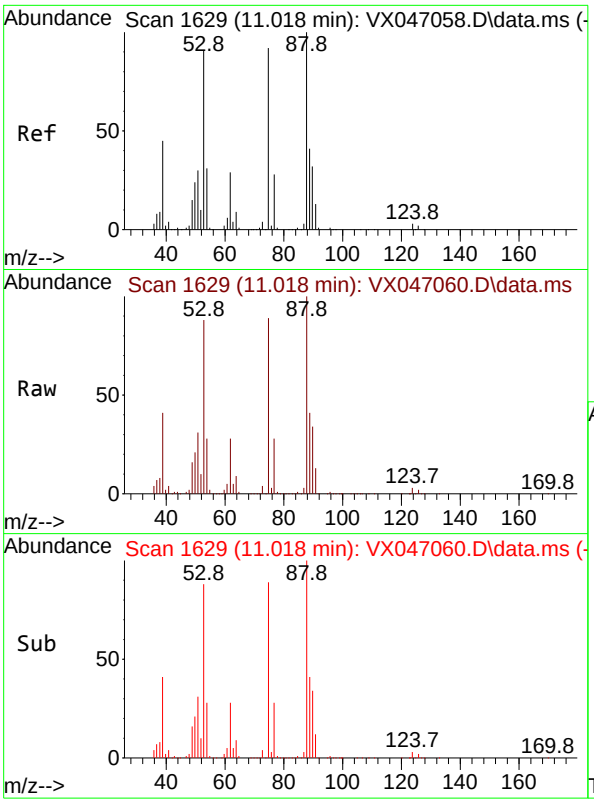


#80
1,3,5-Trimethylbenzene
Concen: 150.280 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:105 Resp: 1921023

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.8	71.5





#81
trans-1,4-Dichloro-2-butene
Concen: 166.150 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 75 Resp: 23410

Ion	Ratio	Lower	Upper
75	100		
53	99.1	84.2	126.4
89	45.9	36.0	54.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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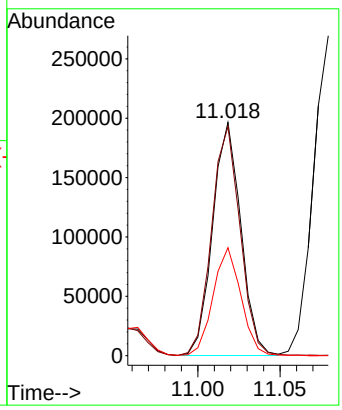
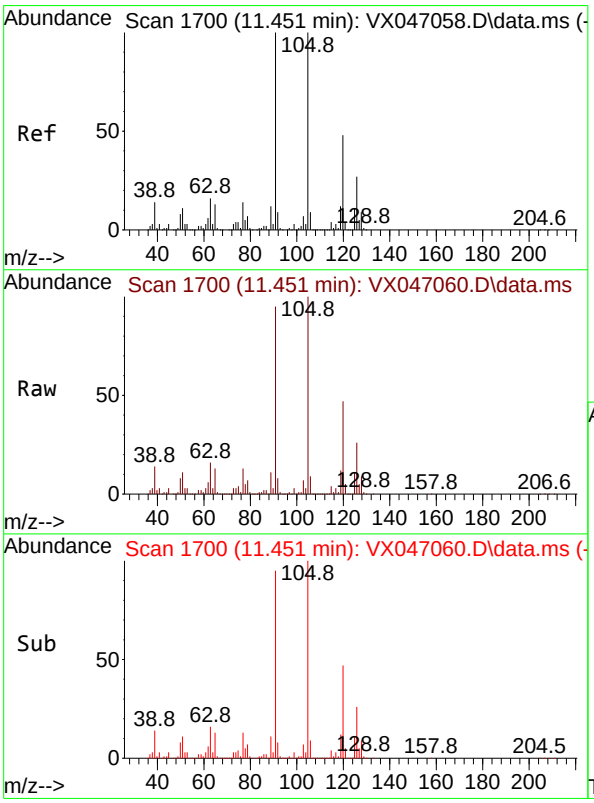
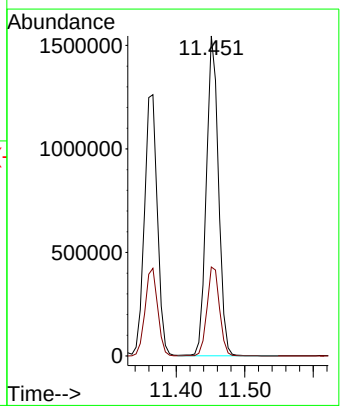


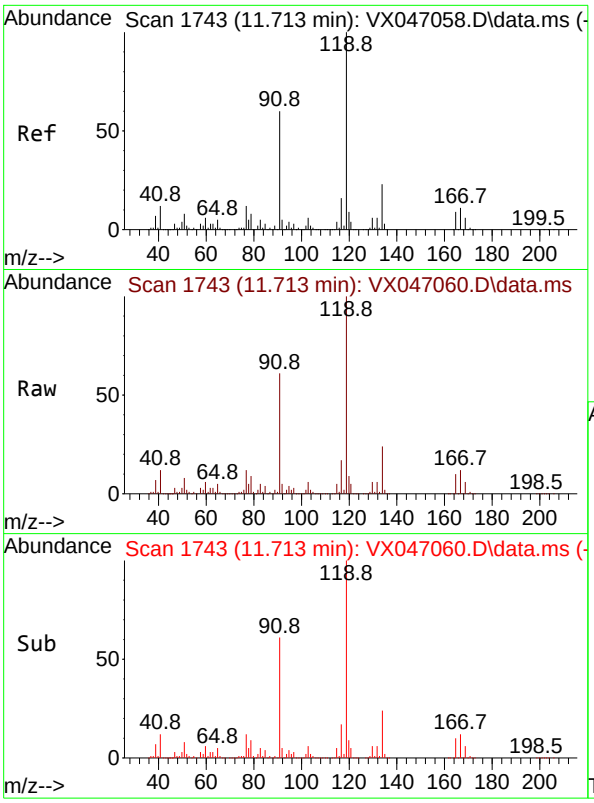


#82
4-Chlorotoluene
Concen: 147.381 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 91 Resp: 1901346

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.1	42.3

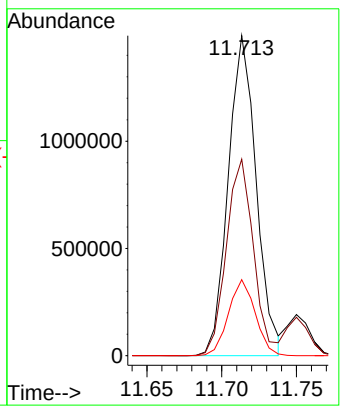




#83
tert-Butylbenzene
Concen: 151.288 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:119 Resp: 194104

Ion	Ratio	Lower	Upper
119	100		
91	59.8	29.6	88.8
134	22.8	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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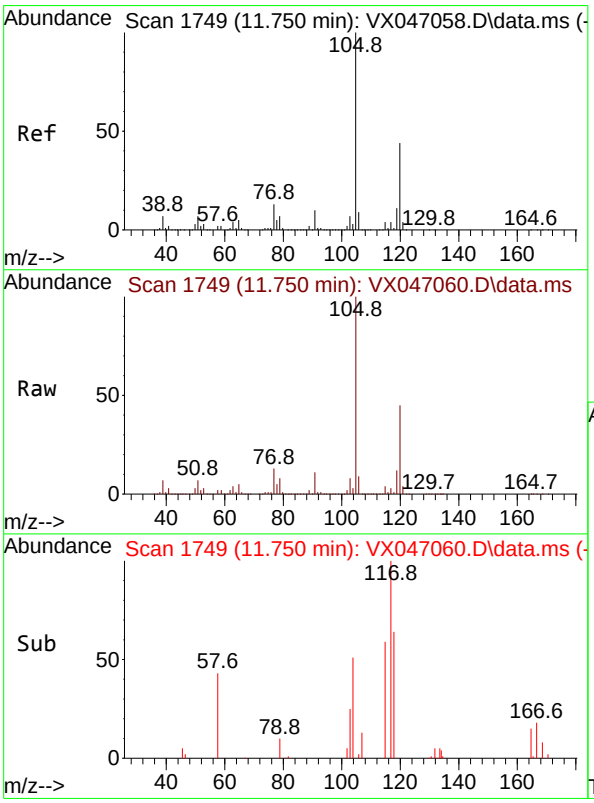
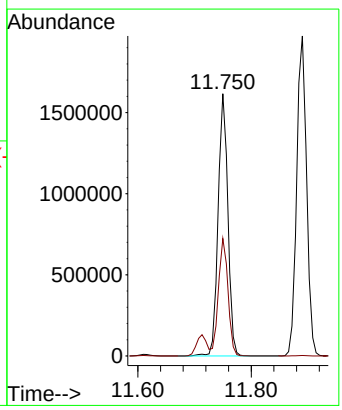
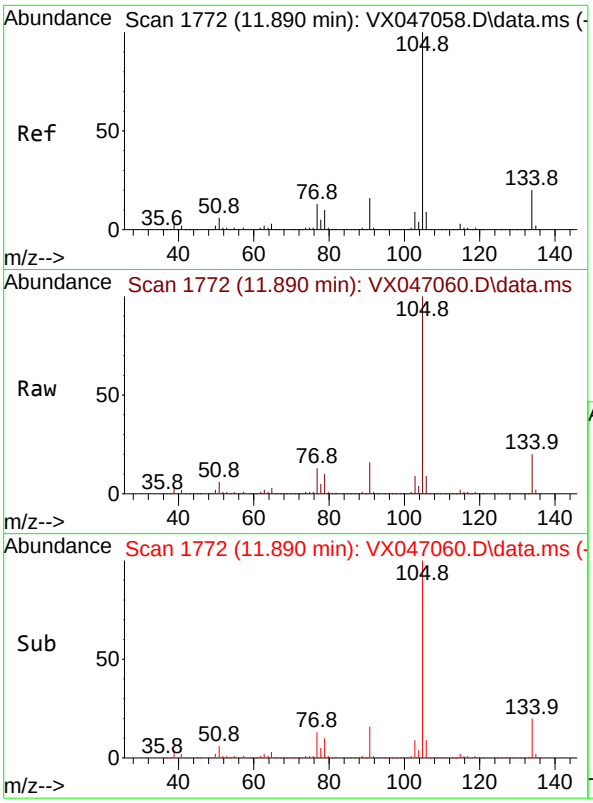


#84
1,2,4-Trimethylbenzene
Concen: 150.829 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:105 Resp: 1923088

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.0	66.0

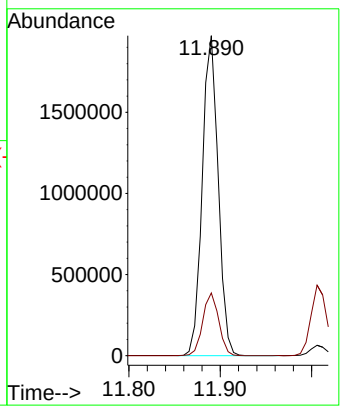




#85
sec-Butylbenzene
Concen: 148.873 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:105 Resp: 238655

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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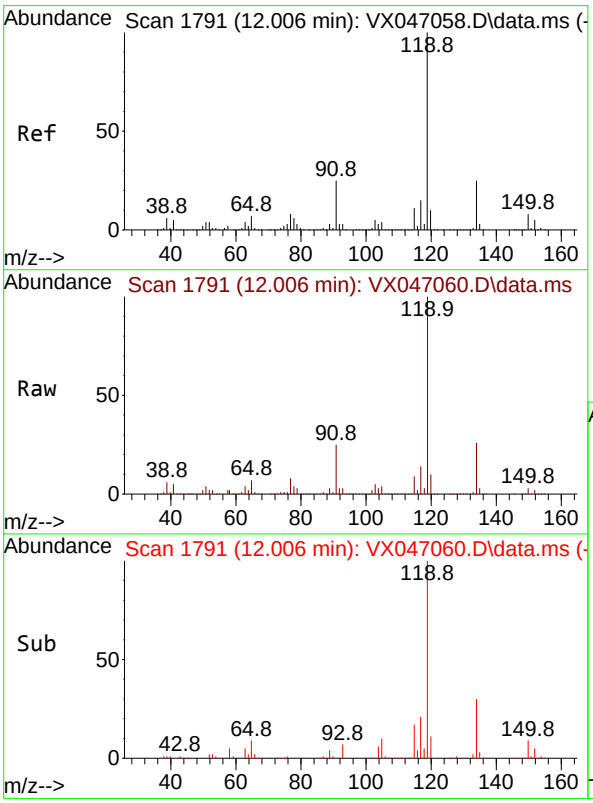
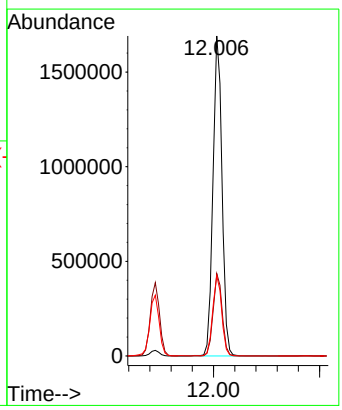
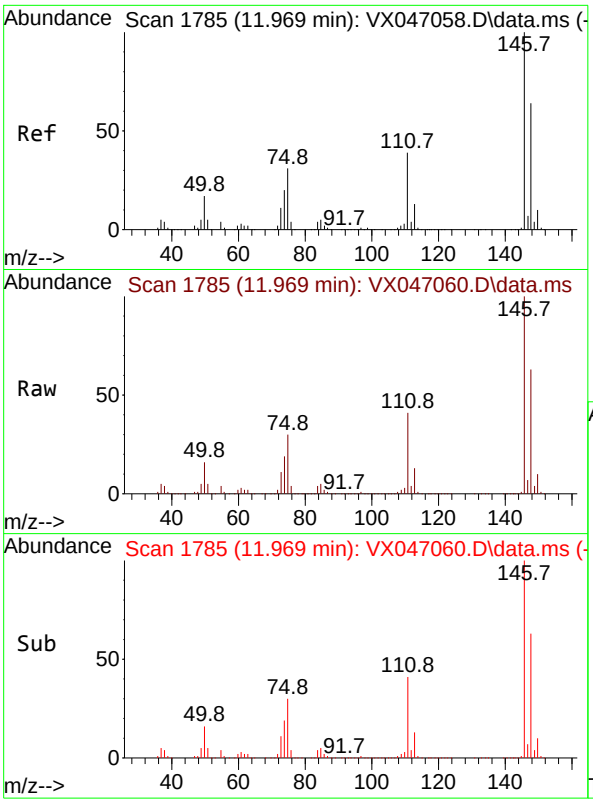


#86
p-Isopropyltoluene
Concen: 150.546 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:119 Resp: 2001346

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.8	38.4
91	25.0	12.4	37.4

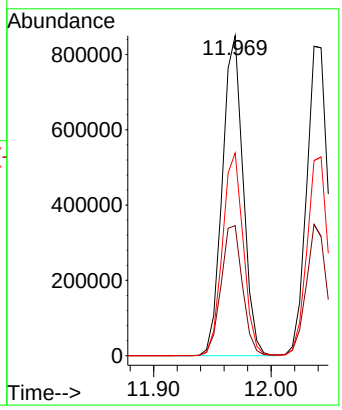




#87
1,3-Dichlorobenzene
Concen: 148.192 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:146 Resp: 104499

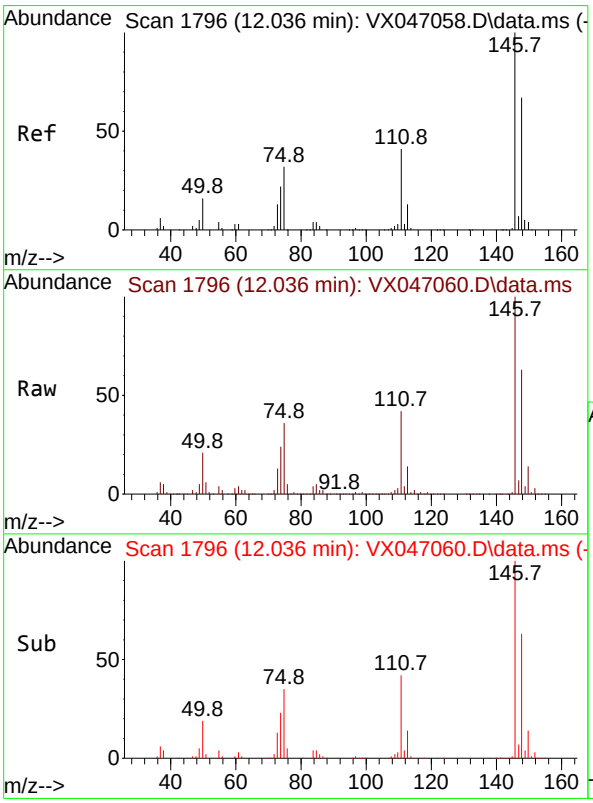
Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.0	63.0
148	63.6	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

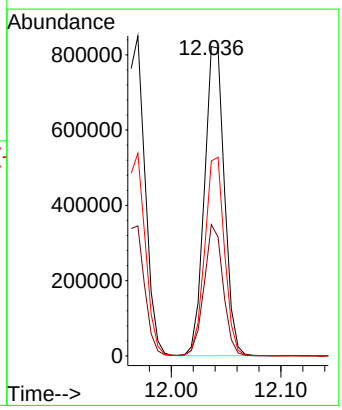
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

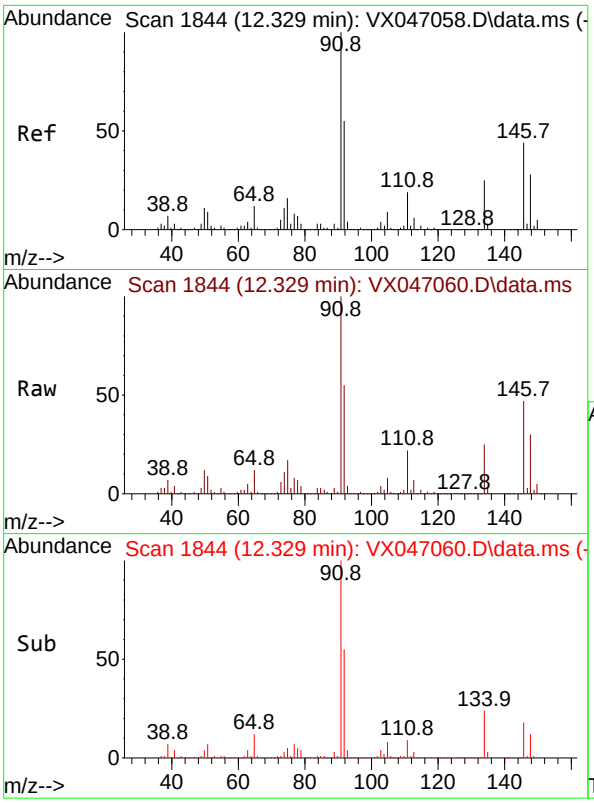


#88
1,4-Dichlorobenzene
Concen: 145.525 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:146 Resp: 1039670

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.6	61.9
148	63.7	33.0	98.9

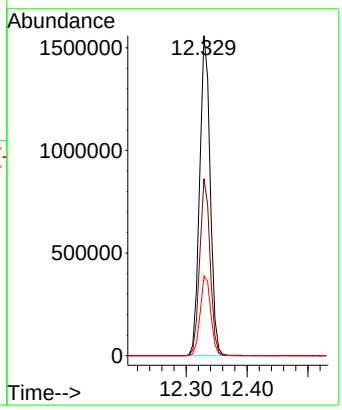




#89
n-Butylbenzene
Concen: 150.392 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 91 Resp: 187492

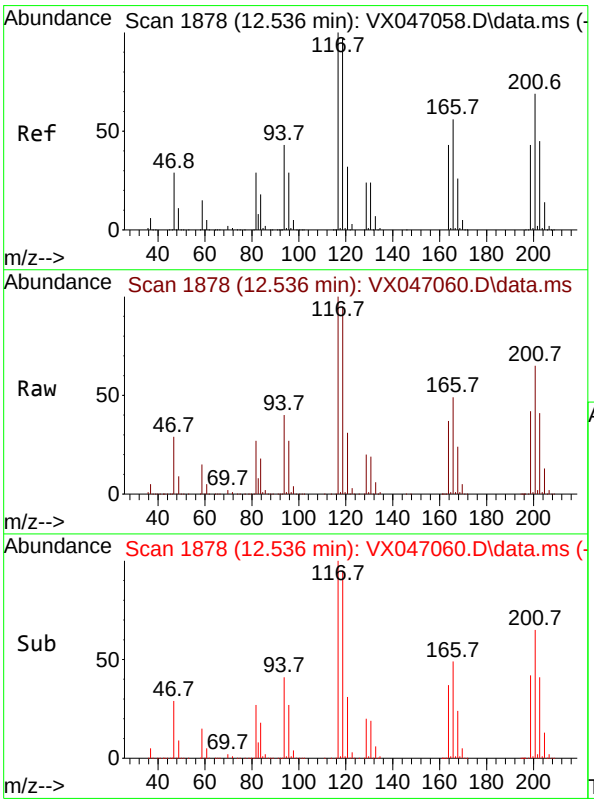
Ion	Ratio	Lower	Upper
91	100		
92	54.7	27.5	82.5
134	25.2	12.8	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

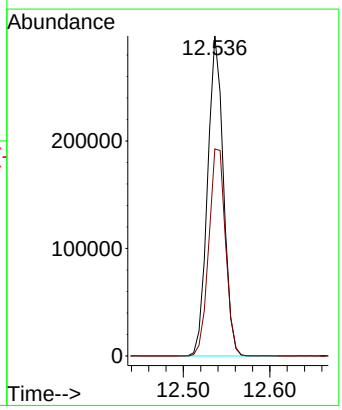
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

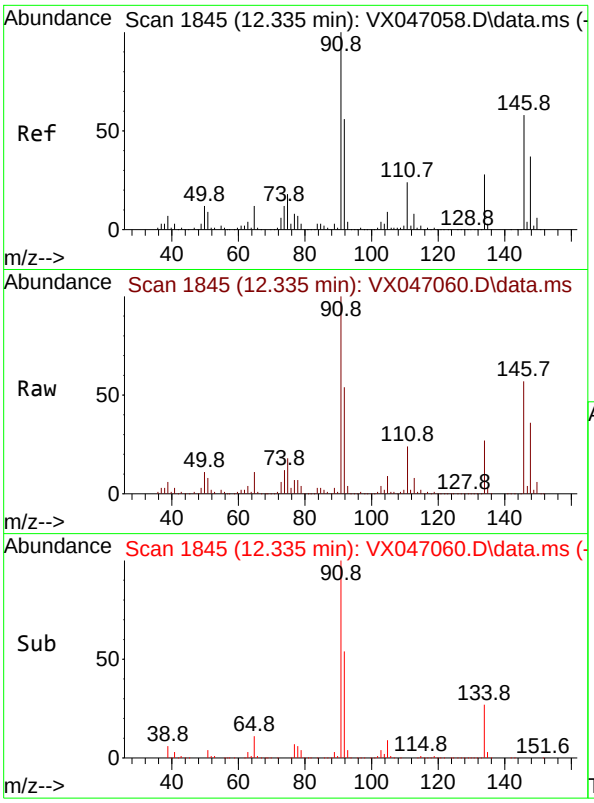


#90
Hexachloroethane
Concen: 158.429 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:117 Resp: 376780

Ion	Ratio	Lower	Upper
117	100		
201	68.5	34.8	104.5

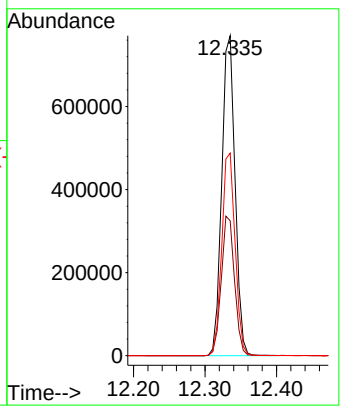




#91
1,2-Dichlorobenzene
Concen: 147.614 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:146 Resp: 99486

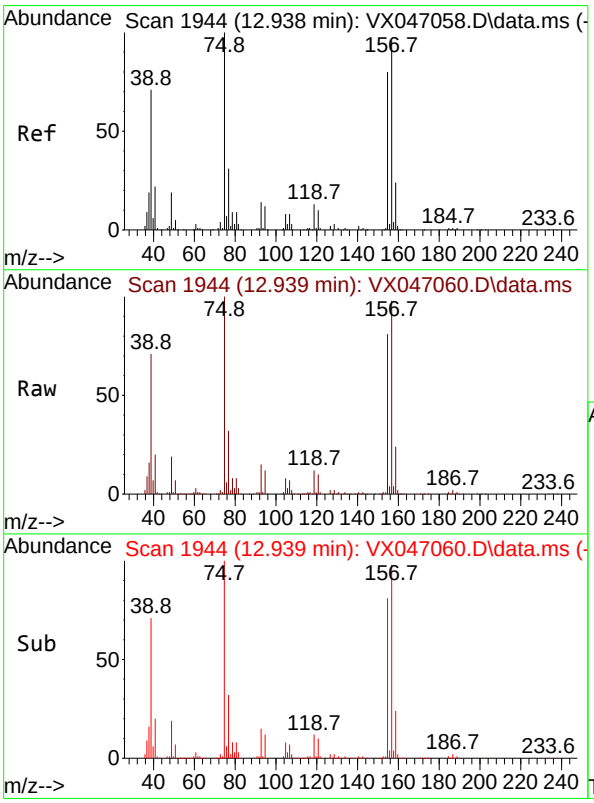
Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.6	64.6
148	63.8	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

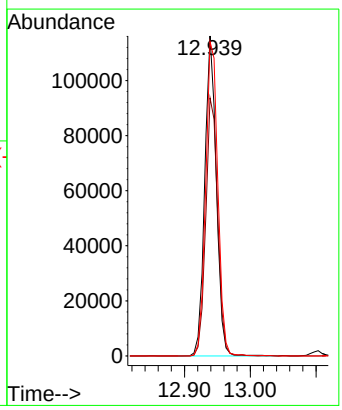
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

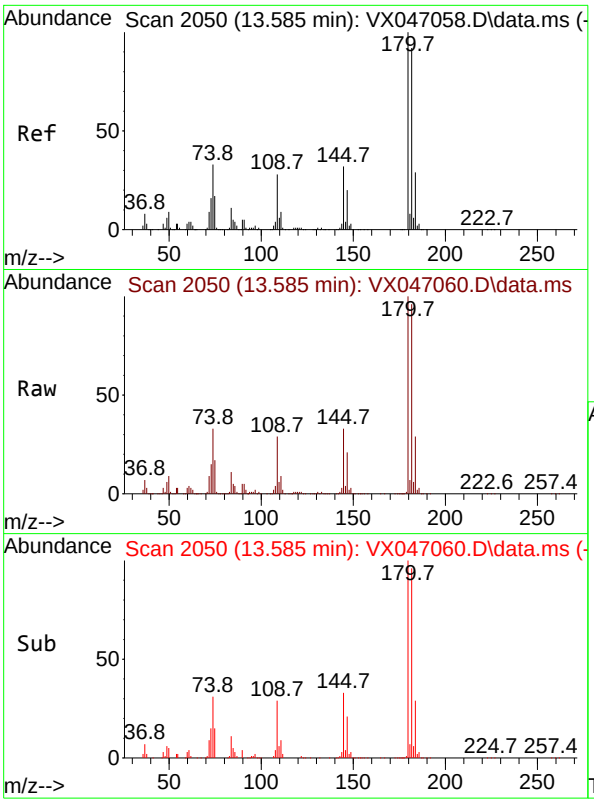


#92
1,2-Dibromo-3-Chloropropane
Concen: 167.843 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 75 Resp: 142395

Ion	Ratio	Lower	Upper
75	100		
155	83.1	41.3	124.1
157	103.2	52.8	158.3

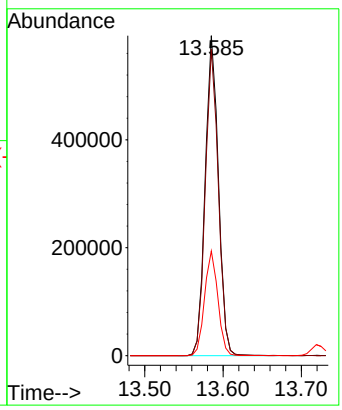




#93
1,2,4-Trichlorobenzene
Concen: 155.373 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:180 Resp: 69185

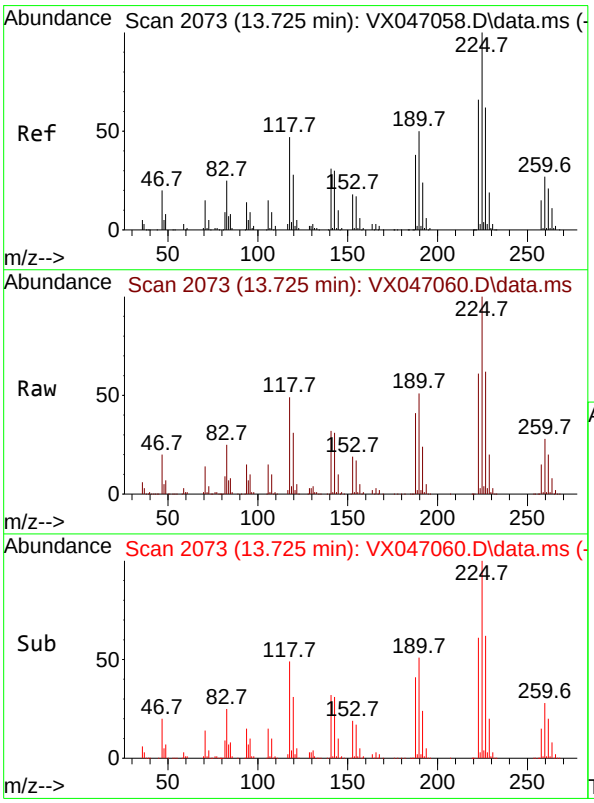
Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.3	141.8
145	32.9	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

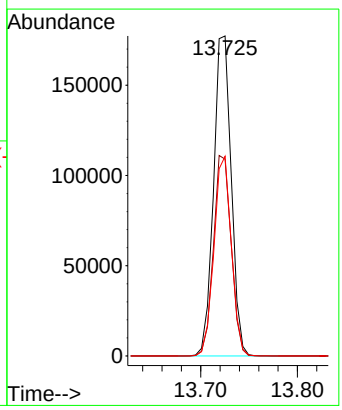
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

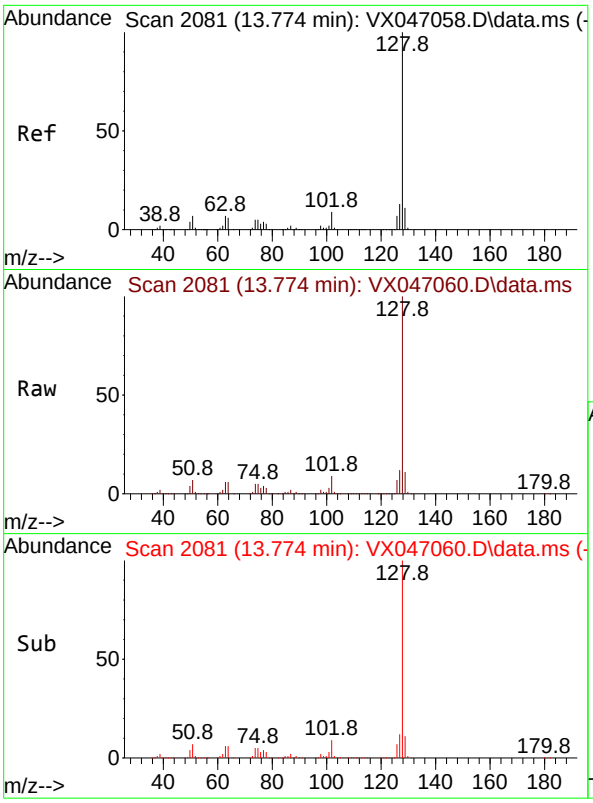


#94
Hexachlorobutadiene
Concen: 148.249 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:225 Resp: 224504

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.6	95.0
227	61.5	32.9	98.6

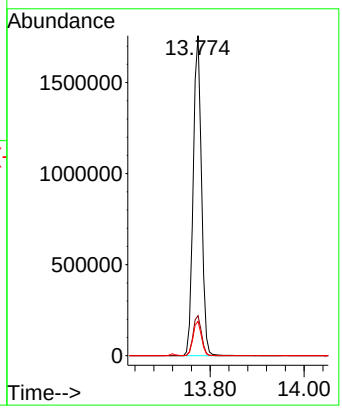




#95
Naphthalene
Concen: 166.363 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:128 Resp: 217168

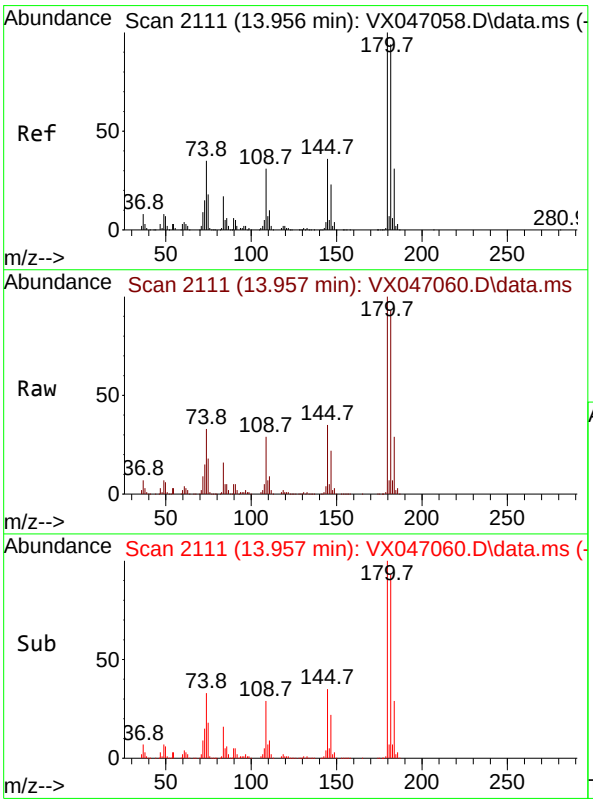
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	10.8	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

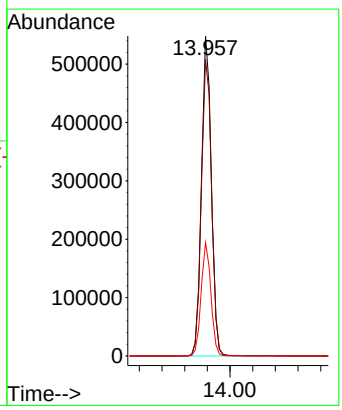
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025



#96
1,2,3-Trichlorobenzene
Concen: 154.436 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:180 Resp: 662501

Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.9	140.6
145	35.0	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations APPROVED
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	353932	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	594788	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	516907	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	245093	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	176451	40.022	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 80.040%			
35) Dibromofluoromethane	5.385	113	155150	42.247	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 84.500%			
50) Toluene-d8	8.647	98	476939	40.102	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 80.200%#			
62) 4-Bromofluorobenzene	11.079	95	209003	40.779	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 81.560%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	240944	51.252	ug/l	99
3) Chloromethane	1.307	50	220344	47.383	ug/l	100
4) Vinyl Chloride	1.386	62	244133	48.838	ug/l	100
5) Bromomethane	1.618	94	153243	56.435	ug/l	97
6) Chloroethane	1.703	64	146679	44.676	ug/l	96
7) Trichlorofluoromethane	1.904	101	354446	47.552	ug/l	96
8) Diethyl Ether	2.142	74	122150	46.477	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.343	101	211536	47.104	ug/l	99
10) Methyl Iodide	2.465	142	206176	45.047	ug/l	97
11) Tert butyl alcohol	2.953	59	107694	207.194	ug/l	99
12) 1,1-Dichloroethene	2.331	96	207074	46.555	ug/l	98
13) Acrolein	2.245	56	197909	208.477	ug/l	99
14) Allyl chloride	2.678	41	375824	46.743	ug/l	99
15) Acrylonitrile	3.069	53	485401	230.845	ug/l	100
16) Acetone	2.386	43	407681	230.823	ug/l	95
17) Carbon Disulfide	2.526	76	588590	45.742	ug/l	99
18) Methyl Acetate	2.709	43	206733	44.045	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	613097	45.291	ug/l	98
20) Methylene Chloride	2.800	84	218853	45.041	ug/l	98
21) trans-1,2-Dichloroethene	3.099	96	210229	46.188	ug/l	98
22) Diisopropyl ether	3.764	45	712919	46.119	ug/l	96
23) Vinyl Acetate	3.727	43	2900485	233.940	ug/l	100
24) 1,1-Dichloroethane	3.617	63	388232	45.165	ug/l	100
25) 2-Butanone	4.556	43	562934	218.892	ug/l	100
26) 2,2-Dichloropropane	4.483	77	308018	46.290	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	242036	44.906	ug/l	99
28) Bromochloromethane	4.904	49	186533	47.168	ug/l	100
29) Tetrahydrofuran	5.001	42	360837	217.460	ug/l	99
30) Chloroform	5.093	83	382651	43.731	ug/l	100
31) Cyclohexane	5.477	56	359502	43.618	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	336918	44.331	ug/l	99
36) 1,1-Dichloropropene	5.696	75	272074	43.463	ug/l	99
37) Ethyl Acetate	4.715	43	244468	42.381	ug/l	99
38) Carbon Tetrachloride	5.678	117	295708	44.259	ug/l	98
39) Methylcyclohexane	7.379	83	344962	44.136	ug/l	99
40) Benzene	6.038	78	802625	44.304	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	138183	45.816	ug/l	97
42) 1,2-Dichloroethane	6.086	62	283205	44.378	ug/l	99
43) Isopropyl Acetate	6.336	43	409733	45.564	ug/l	99
44) Trichloroethene	7.123	130	202817	43.658	ug/l	98
45) 1,2-Dichloropropane	7.428	63	200065	44.093	ug/l	98
46) Dibromomethane	7.580	93	143569	45.121	ug/l	99
47) Bromodichloromethane	7.818	83	301133	44.463	ug/l	99
48) Methyl methacrylate	7.690	41	208228	42.505	ug/l	99
49) 1,4-Dioxane	7.653	88	51080m	916.760	ug/l	
51) 4-Methyl-2-Pentanone	8.568	43	1164013	217.774	ug/l	100
52) Toluene	8.714	92	498799	44.778	ug/l	97
53) t-1,3-Dichloropropene	8.976	75	290633	45.444	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	322967	46.140	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	180762	43.270	ug/l	99
56) Ethyl methacrylate	9.116	69	286552	46.334	ug/l	100
57) 1,3-Dichloropropane	9.305	76	314736	43.350	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	774980	225.188	ug/l	100
59) 2-Hexanone	9.427	43	807822	228.755	ug/l	100
60) Dibromochloromethane	9.519	129	216749	44.239	ug/l	100
61) 1,2-Dibromoethane	9.604	107	188713	43.202	ug/l	99
64) Tetrachloroethene	9.269	164	164447	44.131	ug/l	96
65) Chlorobenzene	10.073	112	536664	44.318	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	181544	44.529	ug/l	99
67) Ethyl Benzene	10.189	91	952288	44.977	ug/l	100
68) m/p-Xylenes	10.299	106	709639	89.564	ug/l	100
69) o-Xylene	10.640	106	341662	45.328	ug/l	99
70) Styrene	10.653	104	589610	45.618	ug/l	100
71) Bromoform	10.799	173	136594	44.106	ug/l	100
73) Isopropylbenzene	10.957	105	903154	46.708	ug/l	100
74) N-amyl acetate	10.842	43	360744	46.238	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	248756	45.037	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	209195m	46.113	ug/l	
77) Bromobenzene	11.195	156	215391	46.441	ug/l	98
78) n-propylbenzene	11.299	91	1081658	46.812	ug/l	100
79) 2-Chlorotoluene	11.360	91	631252	45.702	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	737827	46.187	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.012	75	79906	45.380	ug/l	97
82) 4-Chlorotoluene	11.451	91	749299	46.476	ug/l	99
83) tert-Butylbenzene	11.713	119	752650	46.942	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	744757	46.741	ug/l	99
85) sec-Butylbenzene	11.890	105	934198	46.632	ug/l	99
86) p-Isopropyltoluene	12.006	119	773508	46.560	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	400520	45.450	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	398497	44.634	ug/l	98
89) n-Butylbenzene	12.329	91	735386	47.201	ug/l	99
90) Hexachloroethane	12.536	117	138697	46.667	ug/l	97
91) 1,2-Dichlorobenzene	12.329	146	373286	44.320	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	47608	44.904	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	261487	46.990	ug/l	99
94) Hexachlorobutadiene	13.725	225	86113	45.502	ug/l	99
95) Naphthalene	13.774	128	755367	46.304	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	241137	44.980	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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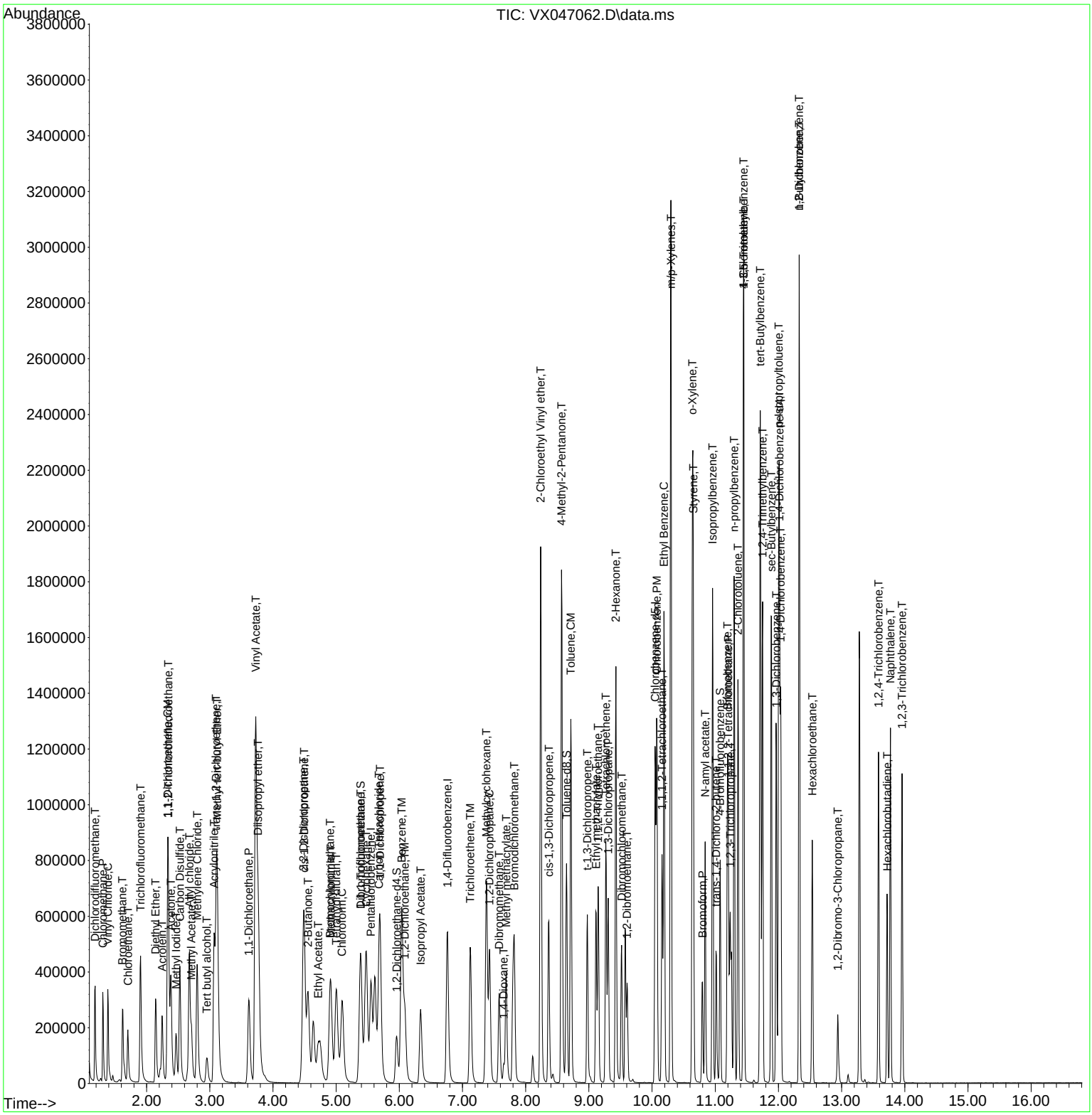
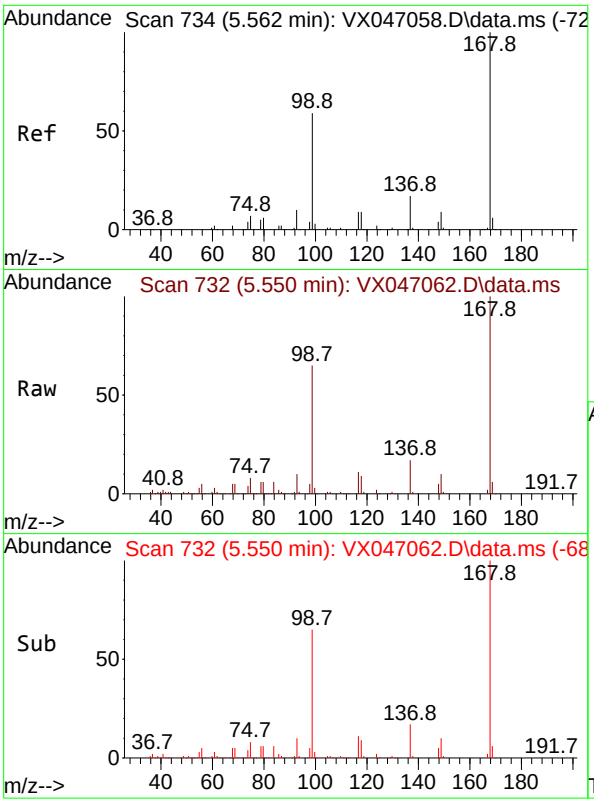
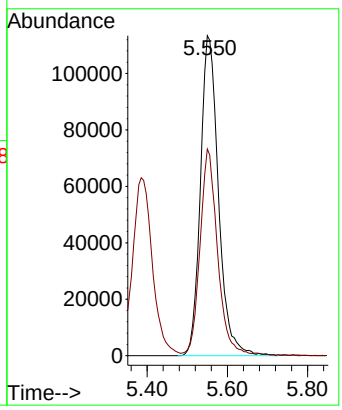




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:168 Resp: 35393

Ion	Ratio	Lower	Upper
168	100		
99	64.3	48.0	72.0



Instrument :
MSVOA_X
ClientSampleId :
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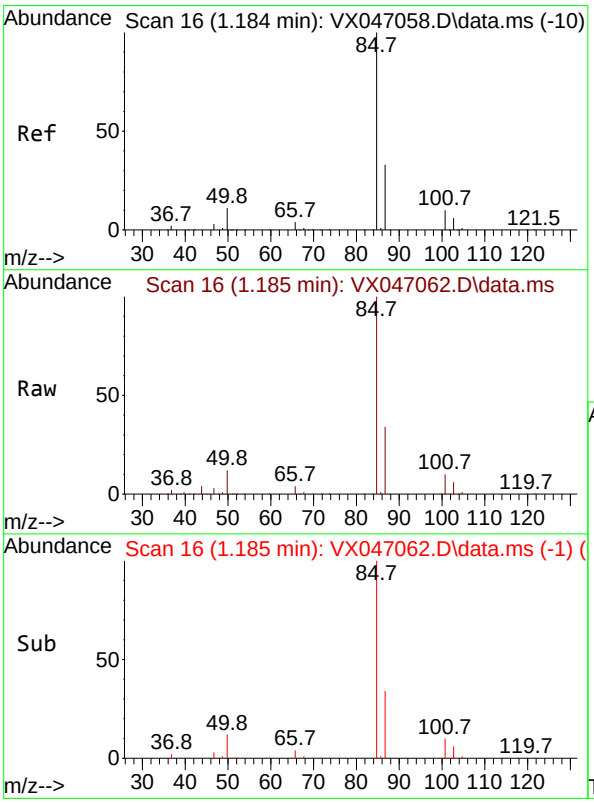
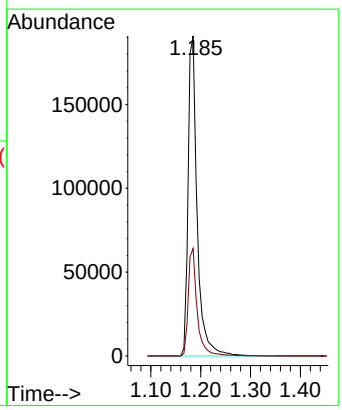
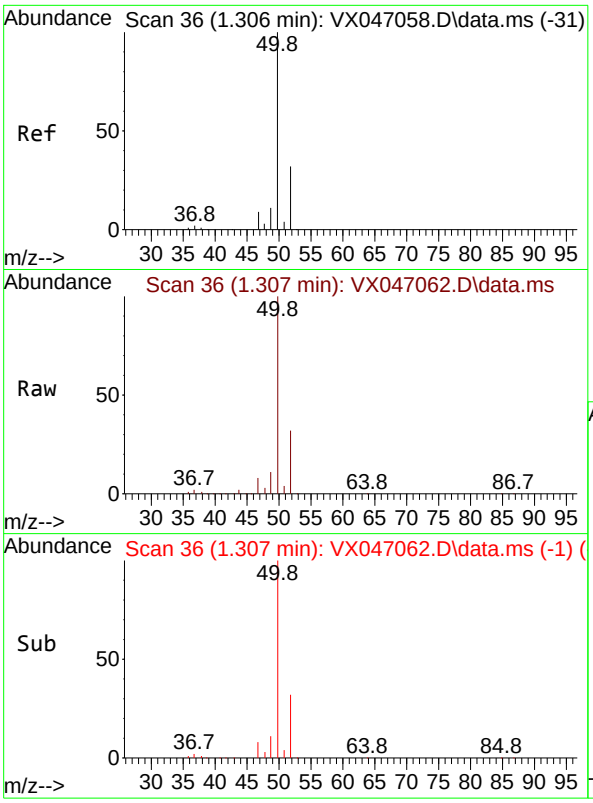


#2
Dichlorodifluoromethane
Concen: 51.252 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 85 Resp: 240944

Ion	Ratio	Lower	Upper
85	100		
87	33.6	16.6	49.8

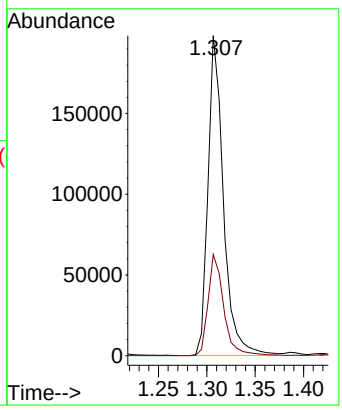




#3
Chloromethane
Concen: 47.383 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 50 Resp: 22034

Ion	Ratio	Lower	Upper
50	100		
52	31.6	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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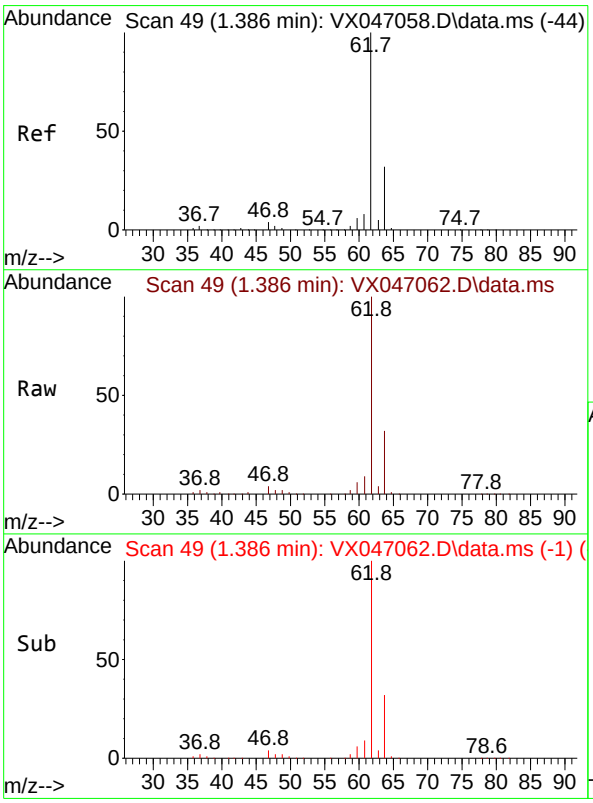
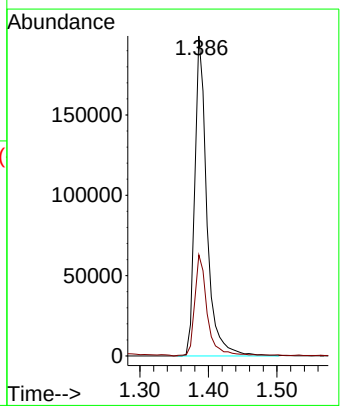
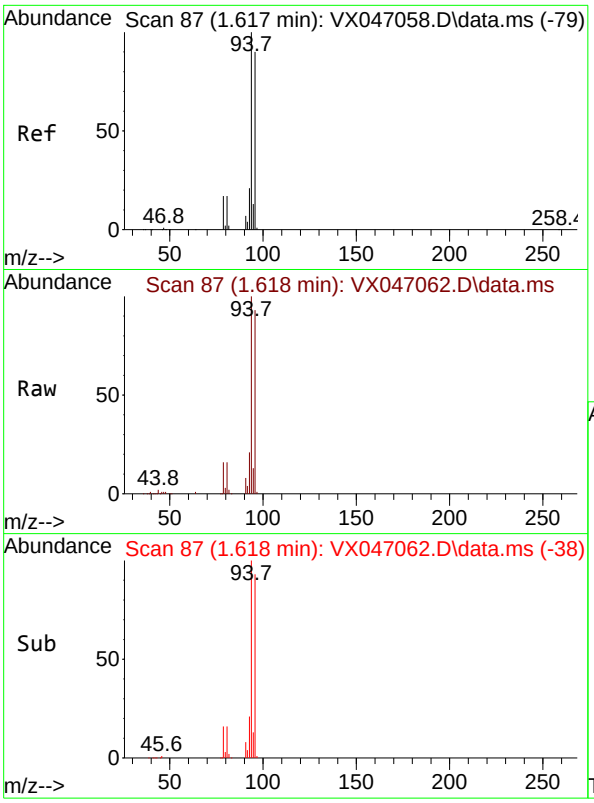


#4
Vinyl Chloride
Concen: 48.838 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 62 Resp: 244133

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.2	37.8

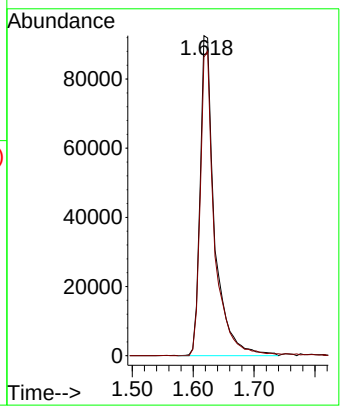




#5
Bromomethane
Concen: 56.435 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 94 Resp: 15324

Ion	Ratio	Lower	Upper
94	100		
96	93.3	72.3	108.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations
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Reviewed By :John Carlone 07/22/2025
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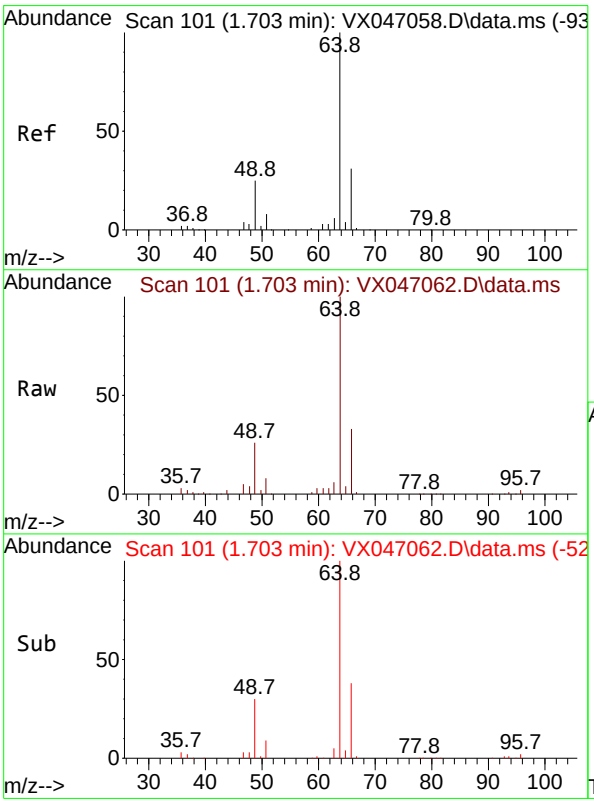
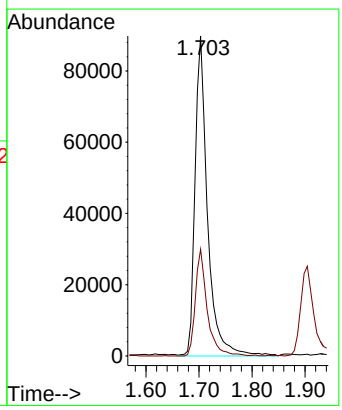
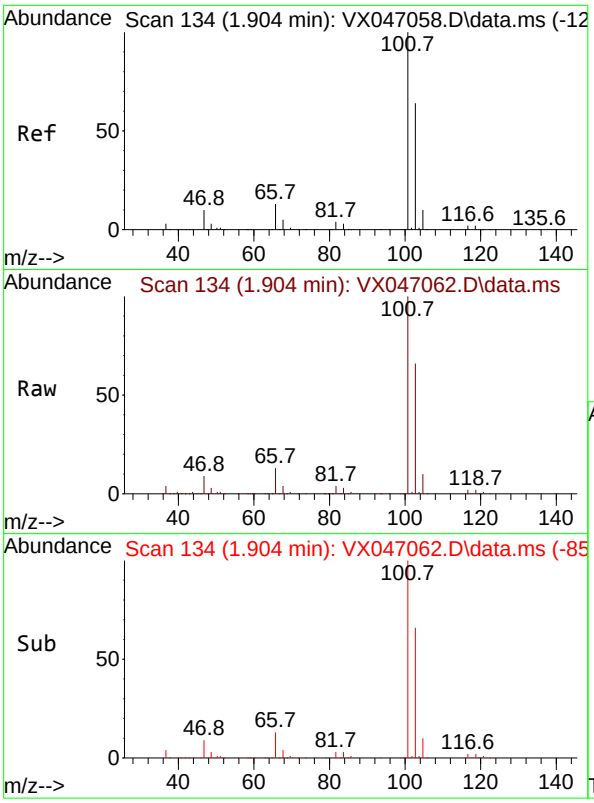


#6
Chloroethane
Concen: 44.676 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 64 Resp: 146679

Ion	Ratio	Lower	Upper
64	100		
66	33.3	25.0	37.6

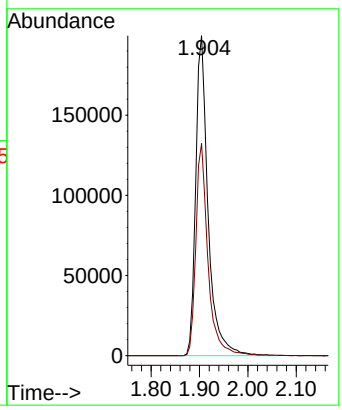




#7
Trichlorofluoromethane
Concen: 47.552 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:101 Resp: 35444

Ion	Ratio	Lower	Upper
101	100		
103	66.4	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations
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Reviewed By :John Carlone 07/22/2025
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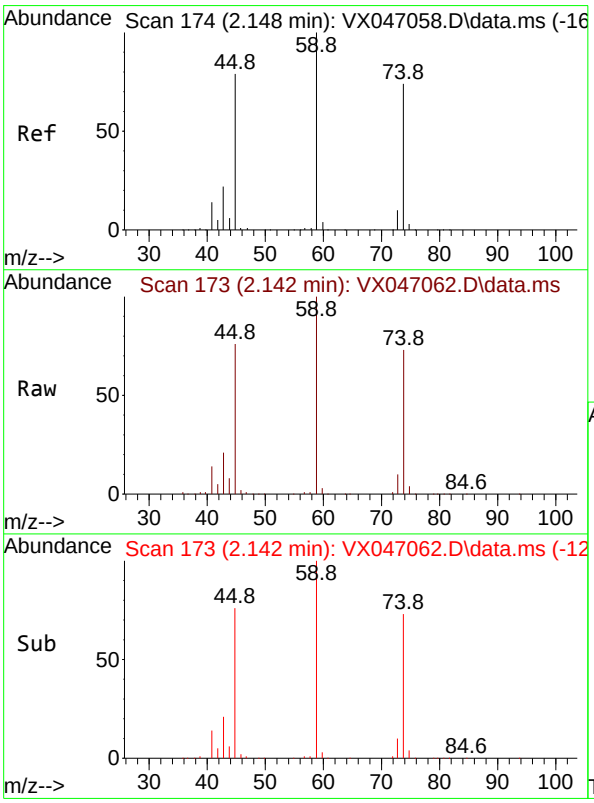
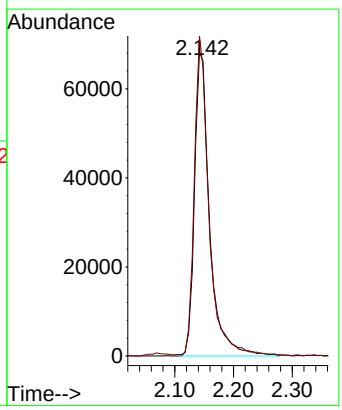
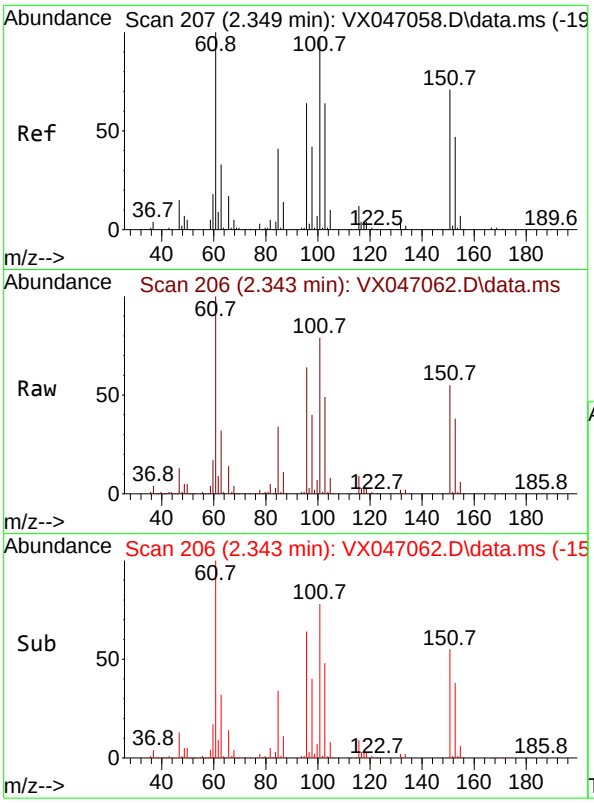


#8
Diethyl Ether
Concen: 46.477 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 74 Resp: 122150

Ion	Ratio	Lower	Upper
74	100		
45	101.7	53.0	159.0

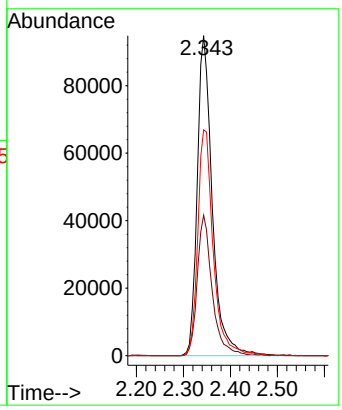




#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.104 ug/l
RT: 2.343 min Scan# 2(
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:101 Resp: 21153(

Ion	Ratio	Lower	Upper
101	100		
85	43.7	35.4	53.0
151	72.8	59.2	88.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
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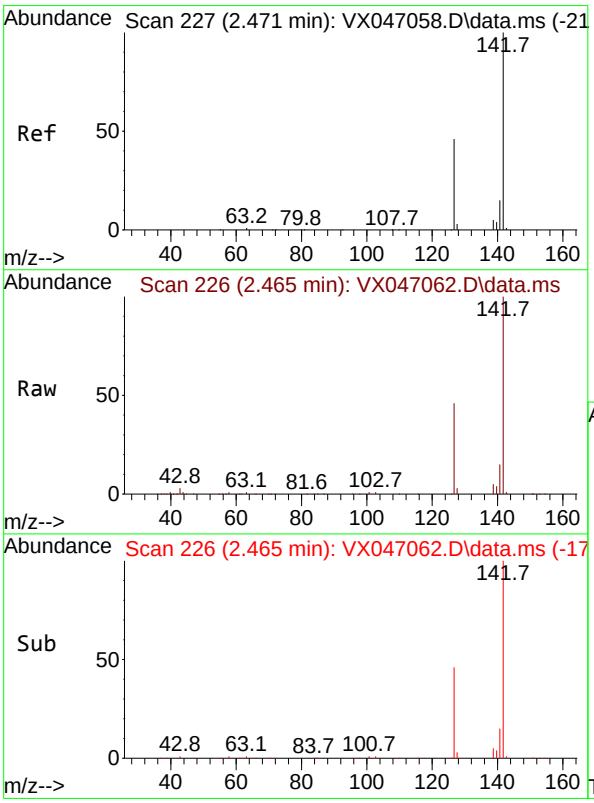
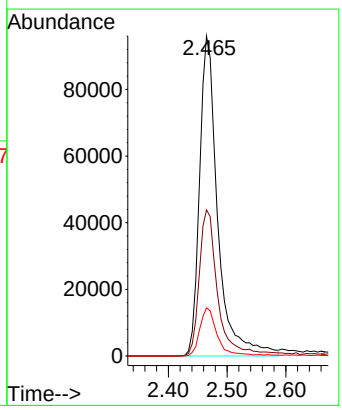
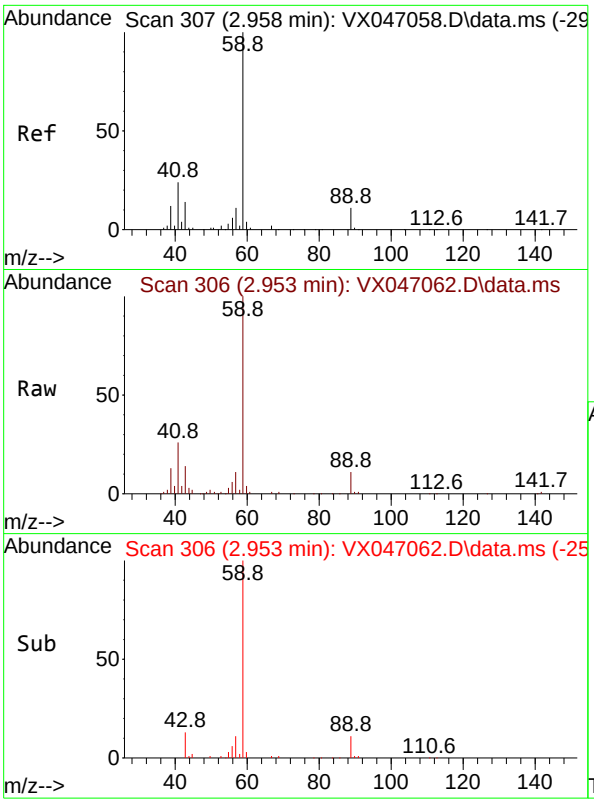


#10
Methyl Iodide
Concen: 45.047 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:142 Resp: 206176

Ion	Ratio	Lower	Upper
142	100		
127	47.4	36.6	54.8
141	14.6	10.9	16.3

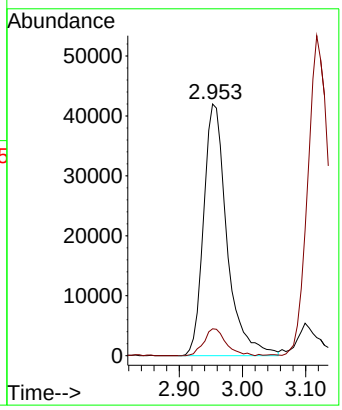




#11
Tert butyl alcohol
Concen: 207.194 ug/l
RT: 2.953 min Scan# 3
Delta R.T. -0.005 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 59 Resp: 10769

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.5	12.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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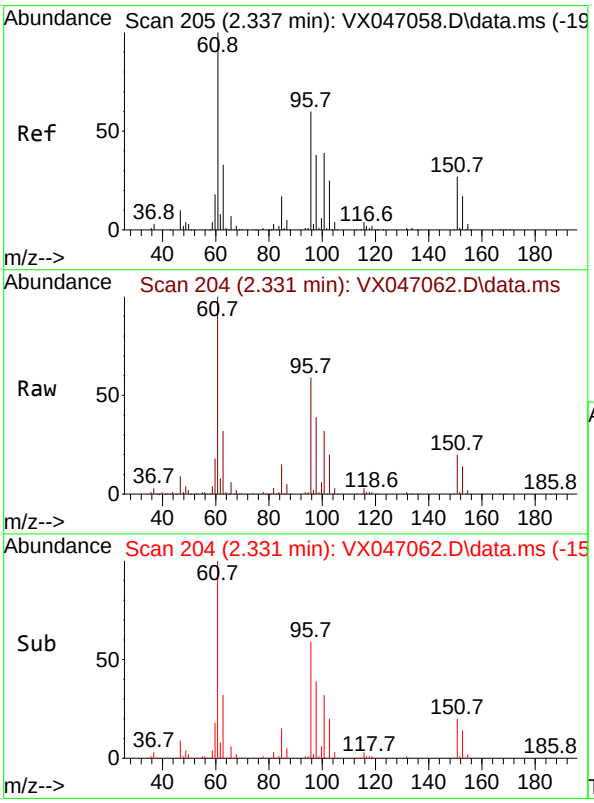
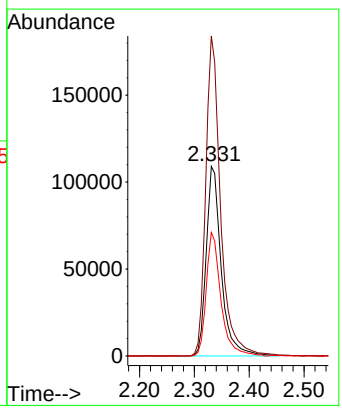
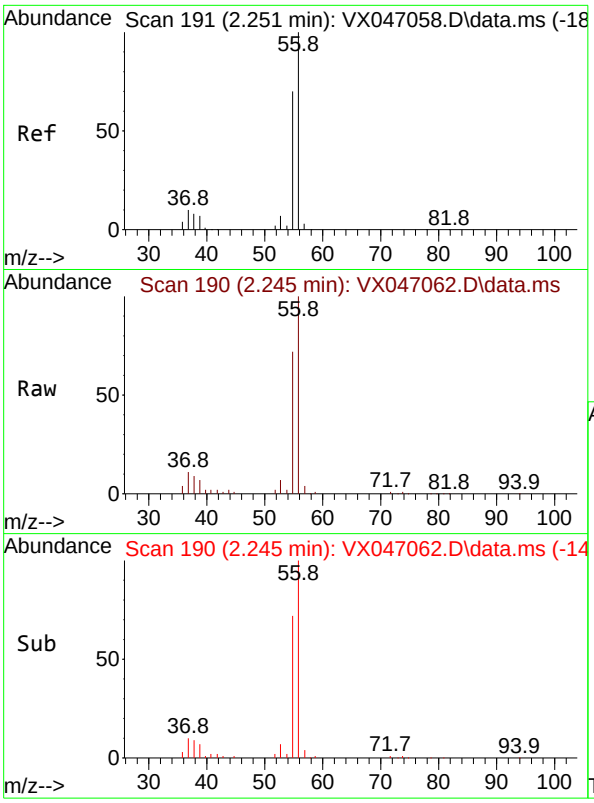


#12
1,1-Dichloroethene
Concen: 46.555 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 96 Resp: 207074

Ion	Ratio	Lower	Upper
96	100		
61	168.8	132.6	198.8
98	65.2	50.2	75.4

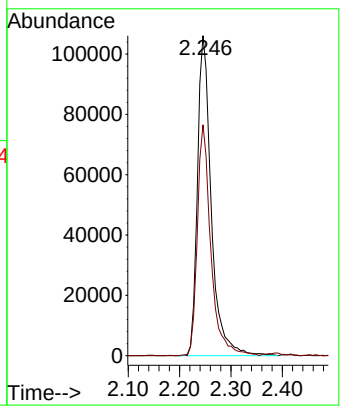




#13
Acrolein
Concen: 208.477 ug/l
RT: 2.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 56 Resp: 19790

Ion	Ratio	Lower	Upper
56	100		
55	70.5	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations
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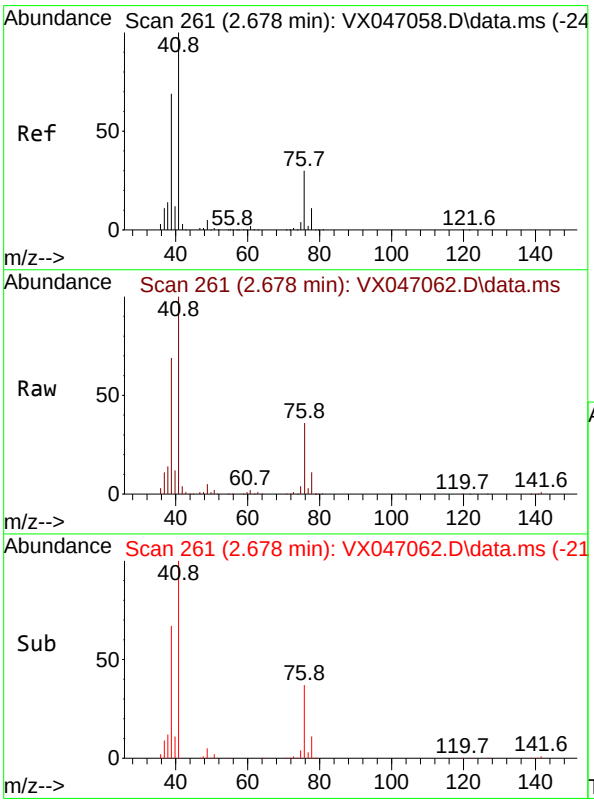
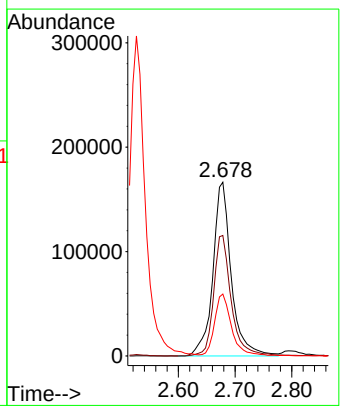
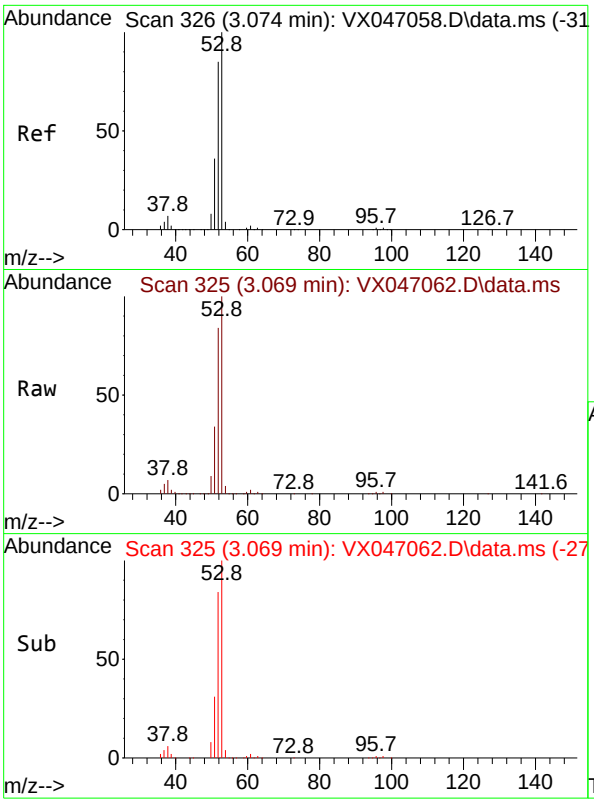


#14
Allyl chloride
Concen: 46.743 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 41 Resp: 375824

Ion	Ratio	Lower	Upper
41	100		
39	66.4	52.6	78.8
76	32.7	25.7	38.5

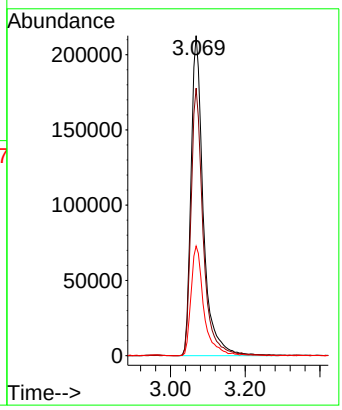




#15
Acrylonitrile
Concen: 230.845 ug/l
RT: 3.069 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 53 Resp: 48540

Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.7	98.5
51	36.0	28.8	43.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations
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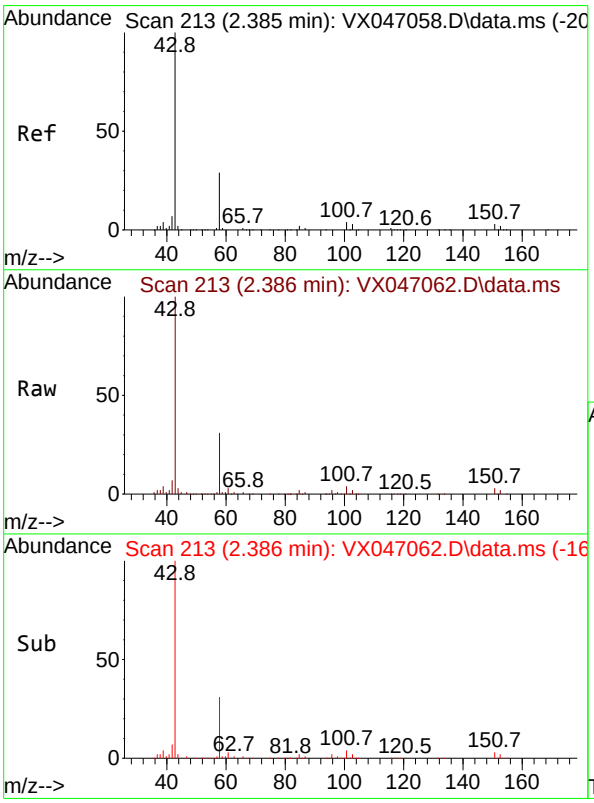
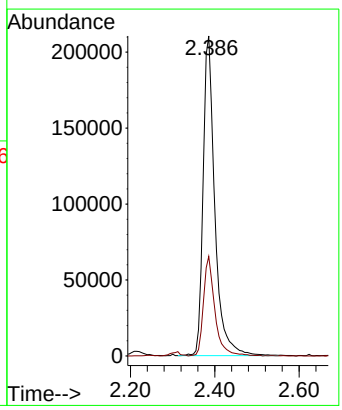
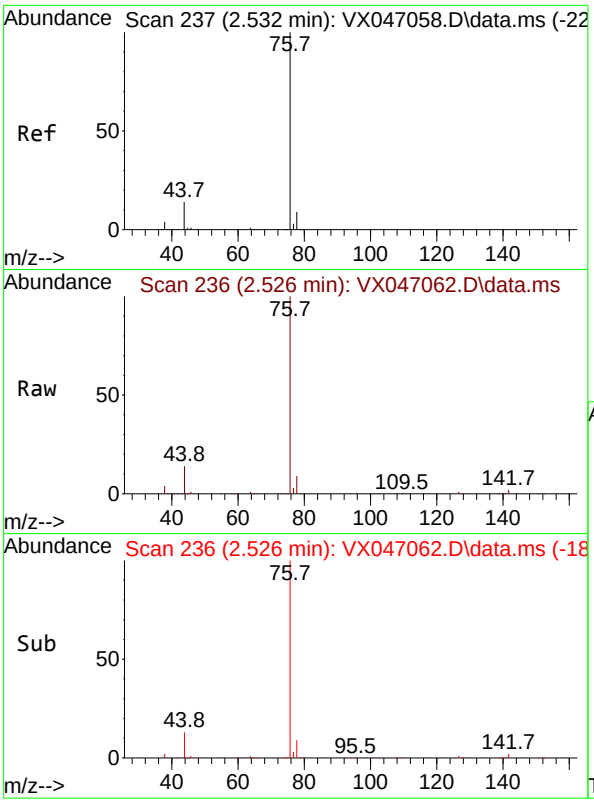


#16
Acetone
Concen: 230.823 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 43 Resp: 407681

Ion	Ratio	Lower	Upper
43	100		
58	32.5	24.0	36.0

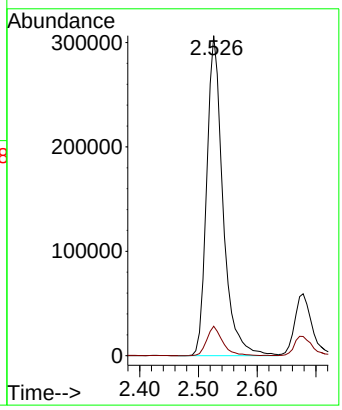




#17
Carbon Disulfide
Concen: 45.742 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 76 Resp: 58859

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations APPROVED

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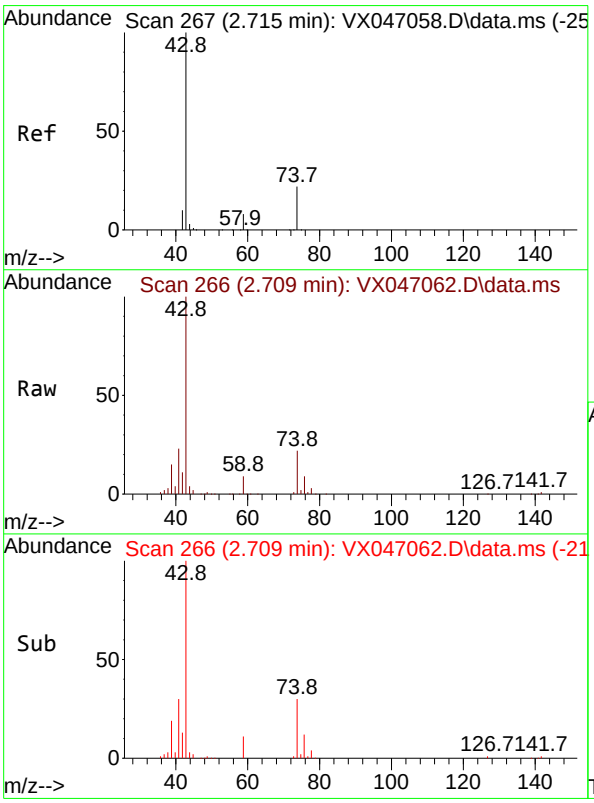
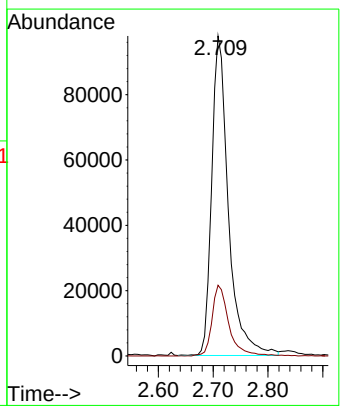
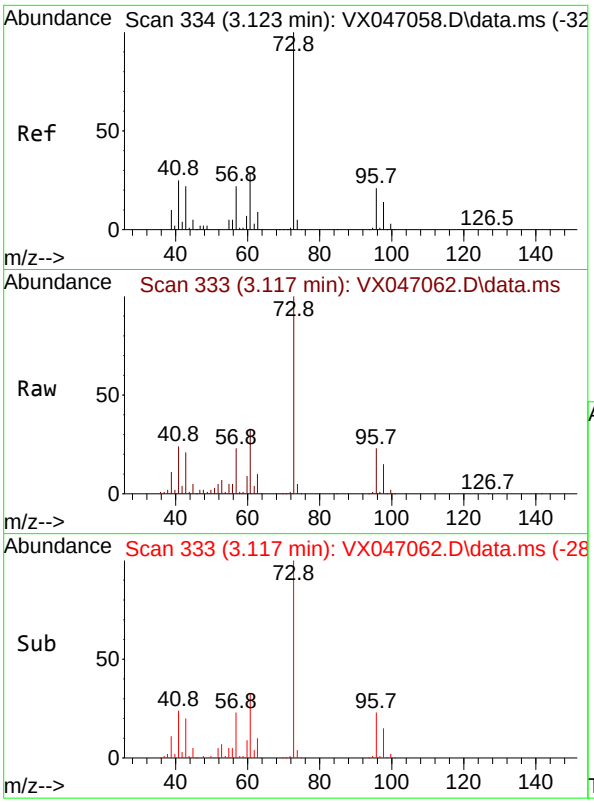


#18
Methyl Acetate
Concen: 44.045 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 43 Resp: 206733

Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.7	26.5

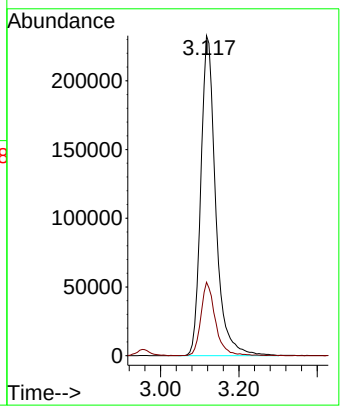




#19
Methyl tert-butyl Ether
Concen: 45.291 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 73 Resp: 61309

Ion	Ratio	Lower	Upper
73	100		
57	22.9	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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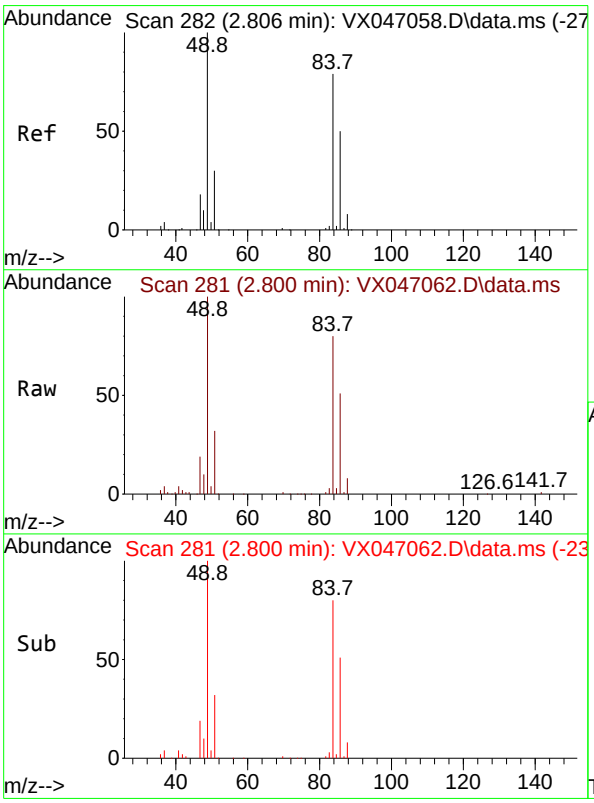
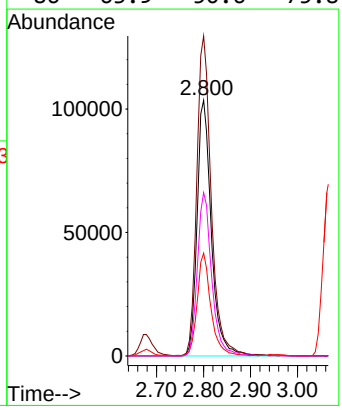
Supervised By :Mahesh Dadoda 07/22/2025

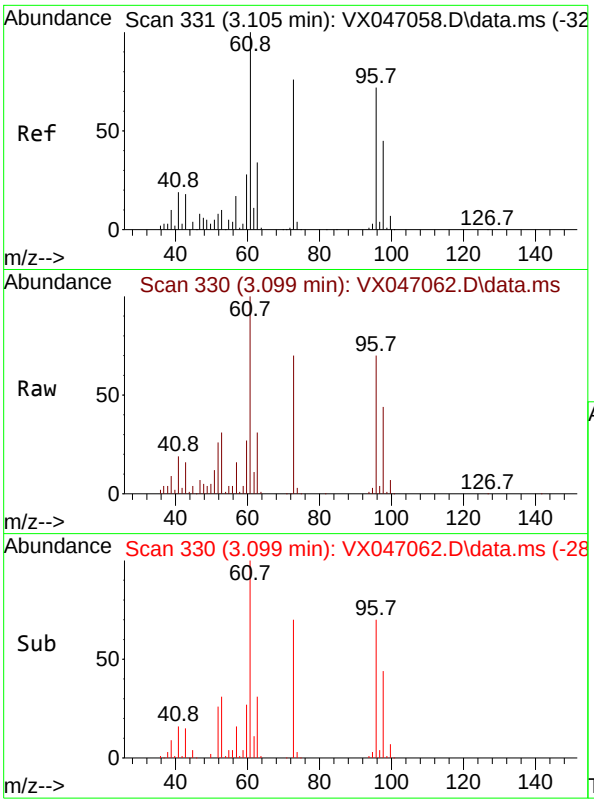


#20
Methylene Chloride
Concen: 45.041 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 84 Resp: 218853

Ion	Ratio	Lower	Upper
84	100		
49	124.9	101.6	152.4
51	40.2	30.3	45.5
86	63.9	50.6	75.8

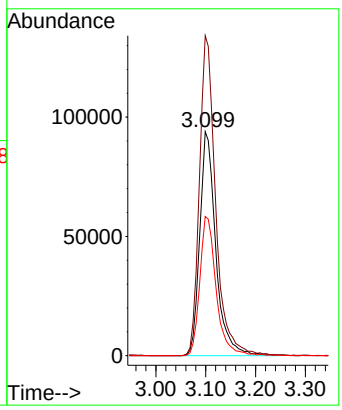




#21
trans-1,2-Dichloroethene
Concen: 46.188 ug/l
RT: 3.099 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 96 Resp: 21022

Ion	Ratio	Lower	Upper
96	100		
61	142.8	111.1	166.7
98	62.1	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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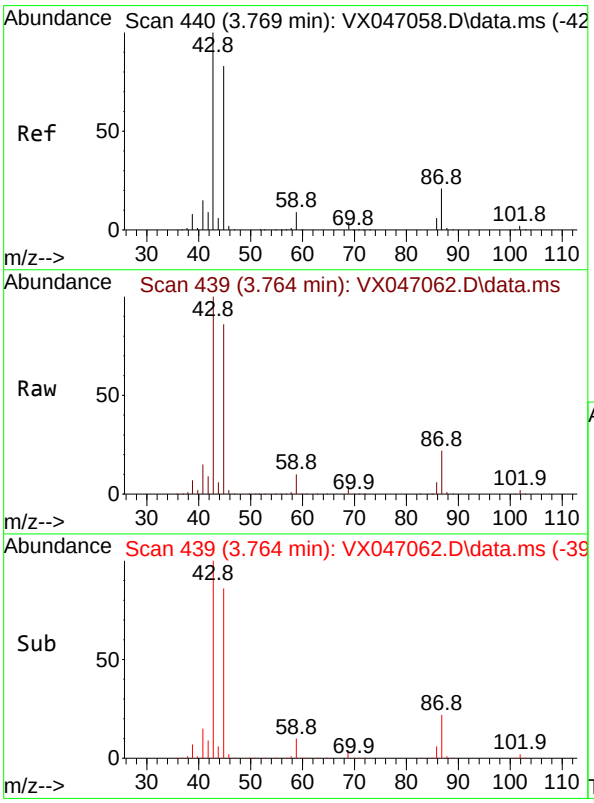
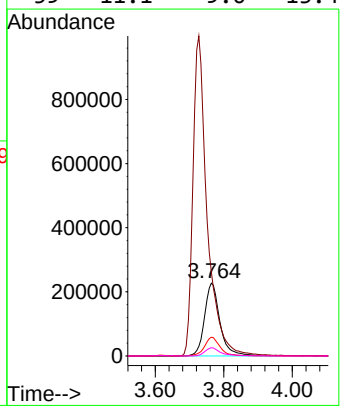
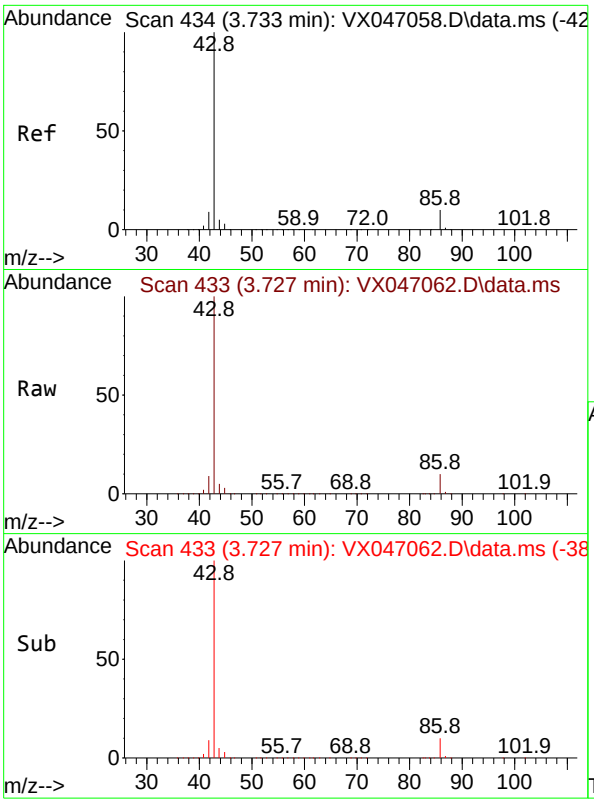


#22
Diisopropyl ether
Concen: 46.119 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 45 Resp: 712919

Ion	Ratio	Lower	Upper
45	100		
43	115.6	96.8	145.2
87	25.8	20.5	30.7
59	11.1	9.0	13.4





#23
Vinyl Acetate
Concen: 233.940 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 43 Resp: 290048

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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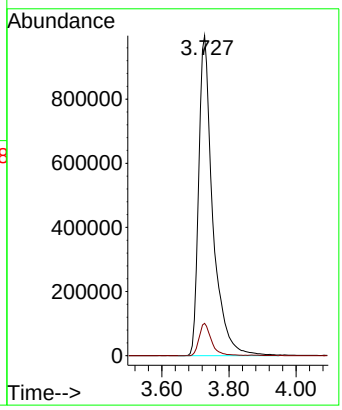
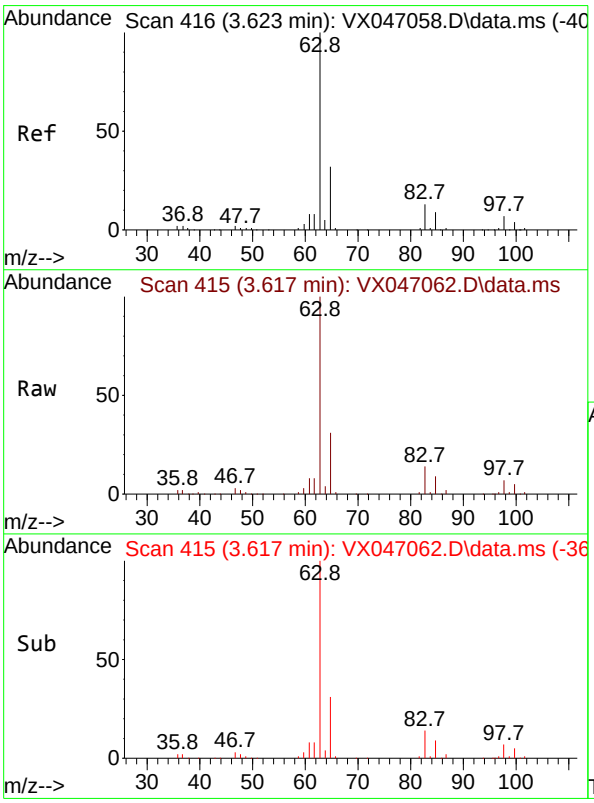
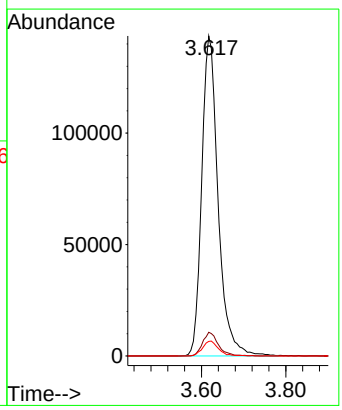


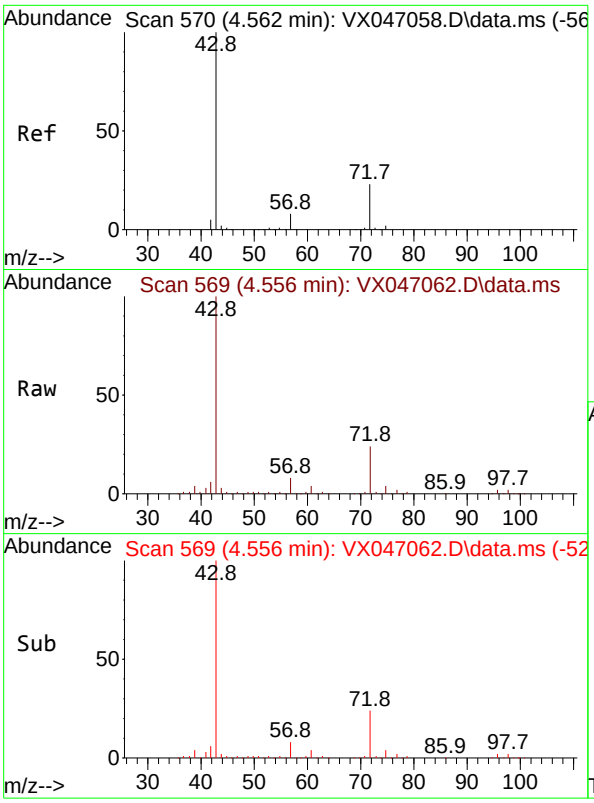


#24
1,1-Dichloroethane
Concen: 45.165 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 63 Resp: 388232

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	4.5	2.3	6.8





#25
2-Butanone
Concen: 218.892 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 43 Resp: 56293

Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.8	28.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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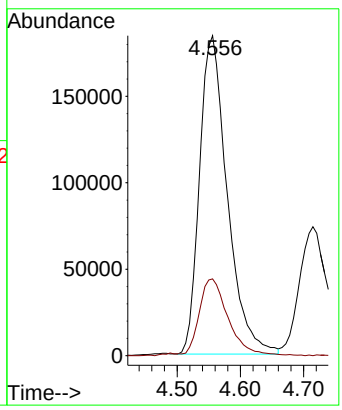
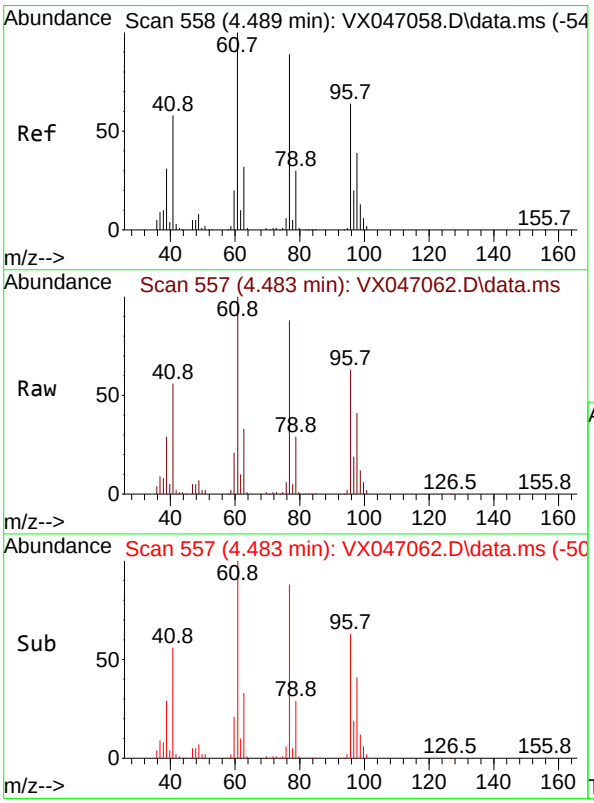
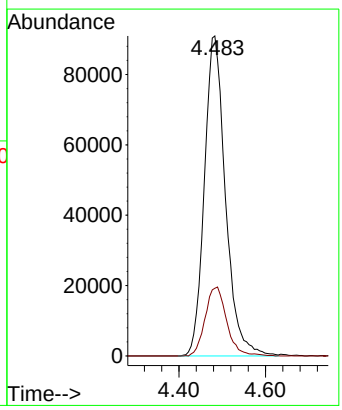


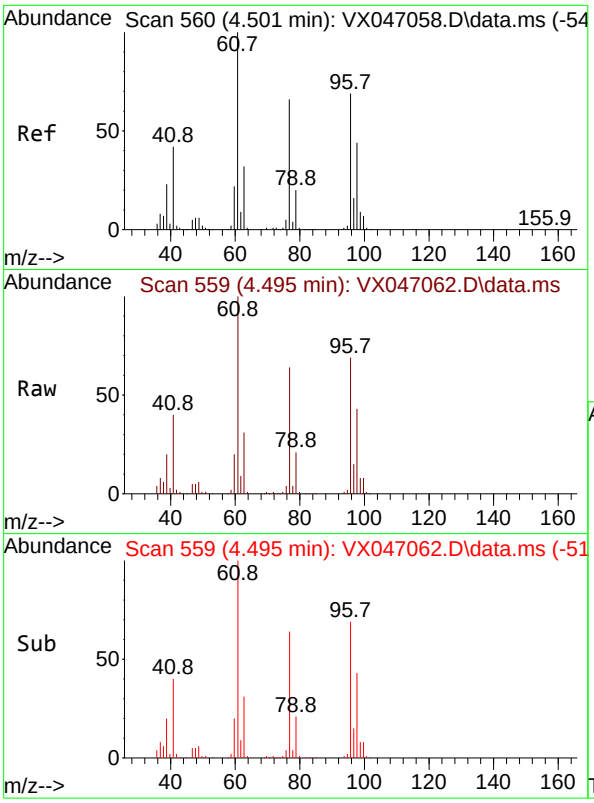


#26
2,2-Dichloropropane
Concen: 46.290 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 77 Resp: 308018

Ion	Ratio	Lower	Upper
77	100		
97	22.0	11.4	34.1

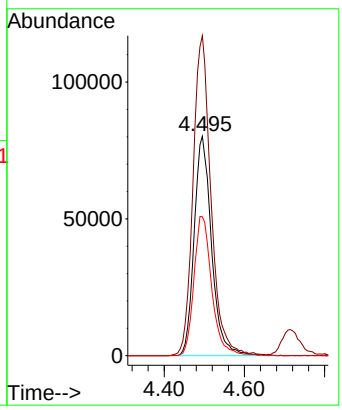




#27
cis-1,2-Dichloroethene
Concen: 44.906 ug/l
RT: 4.495 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 96 Resp: 24203

Ion	Ratio	Lower	Upper
96	100		
61	150.3	0.0	298.6
98	64.8	0.0	128.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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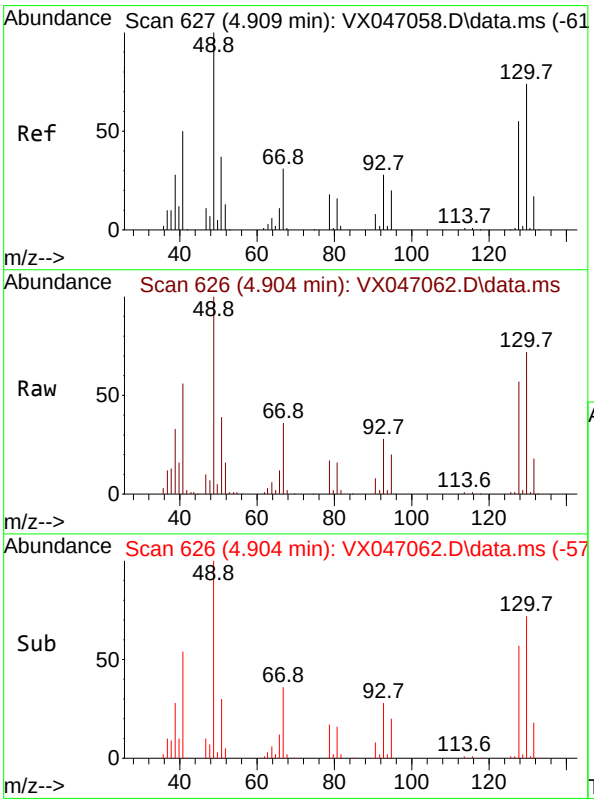
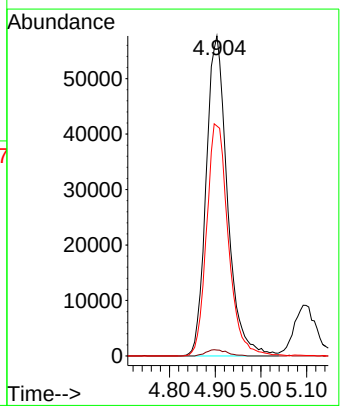
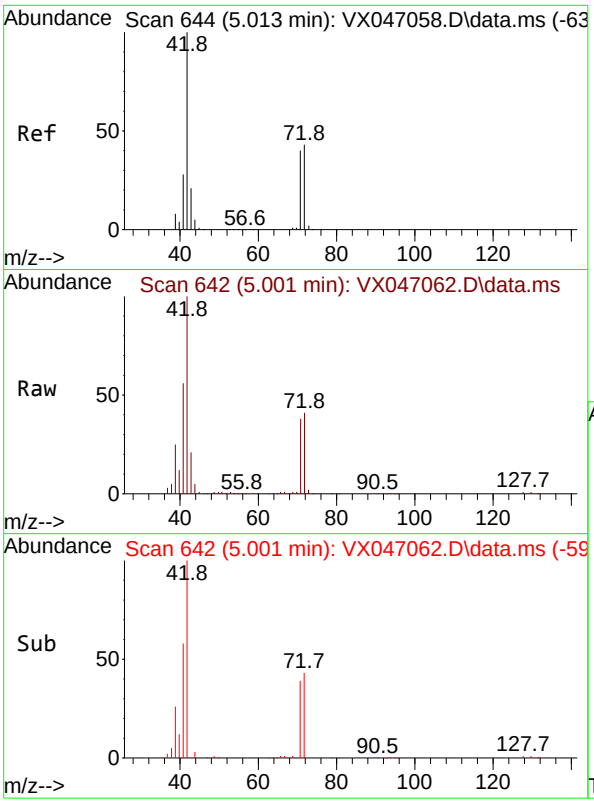


#28
Bromochloromethane
Concen: 47.168 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 49 Resp: 186533

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	73.9	59.0	88.4

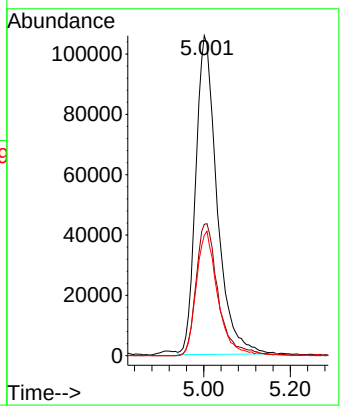




#29
Tetrahydrofuran
Concen: 217.460 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 42 Resp: 36083

Ion	Ratio	Lower	Upper
42	100		
72	43.1	33.7	50.5
71	39.5	31.0	46.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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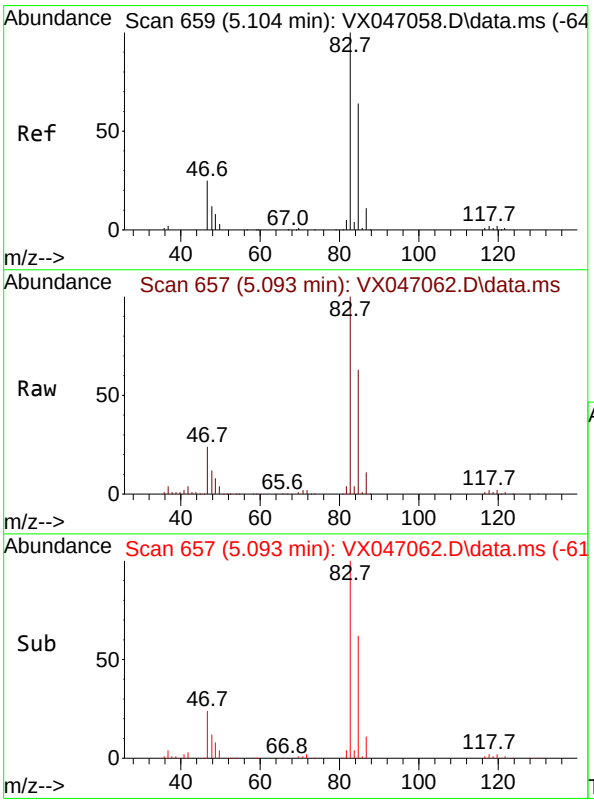
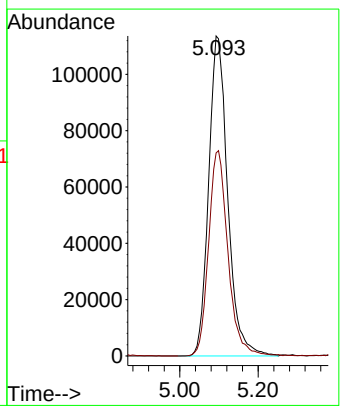
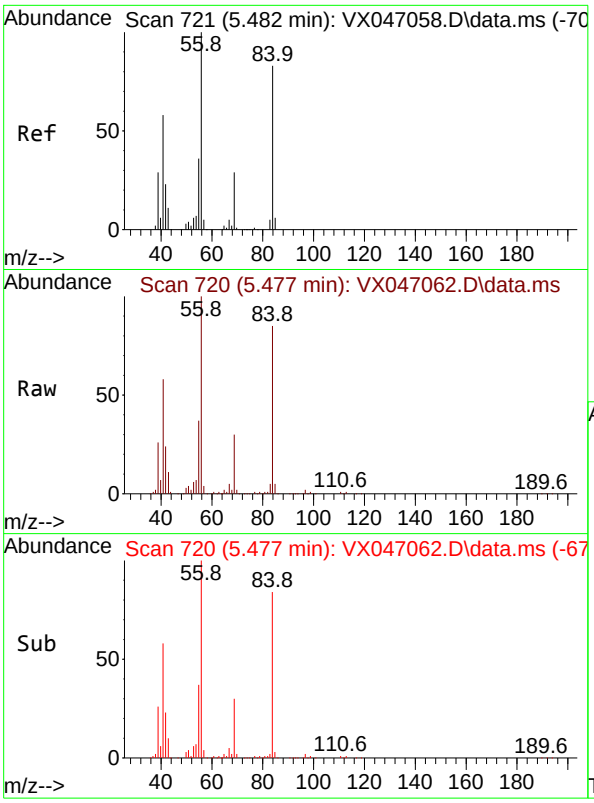


#30
Chloroform
Concen: 43.731 ug/l
RT: 5.093 min Scan# 657
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 83 Resp: 382651

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.9	76.3

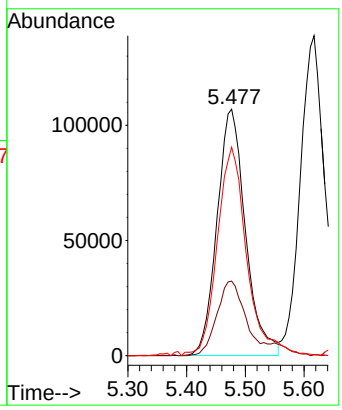




#31
Cyclohexane
Concen: 43.618 ug/l
RT: 5.477 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 56 Resp: 35950

Ion	Ratio	Lower	Upper
56	100		
69	30.2	23.3	34.9
84	82.9	66.5	99.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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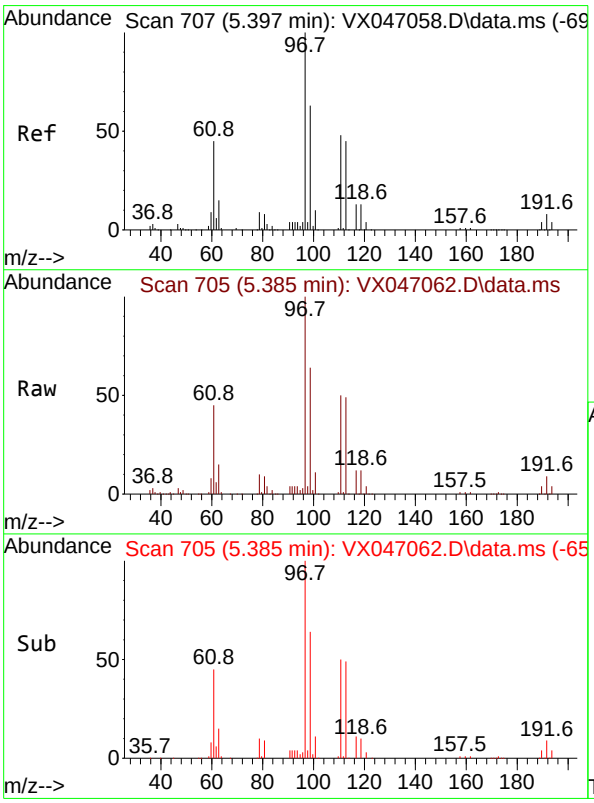
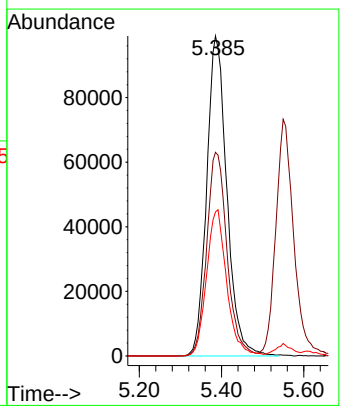
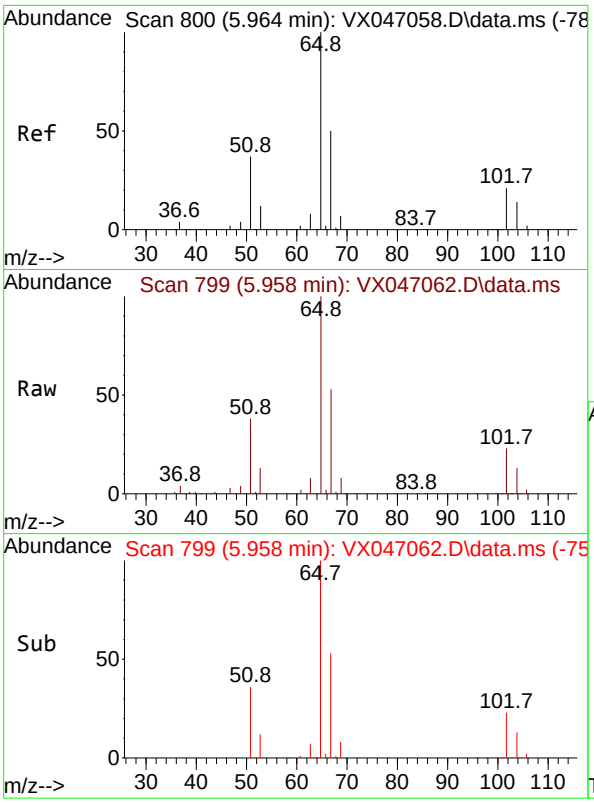


#32
1,1,1-Trichloroethane
Concen: 44.331 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 97 Resp: 336918

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.2	76.8
61	45.8	37.1	55.7

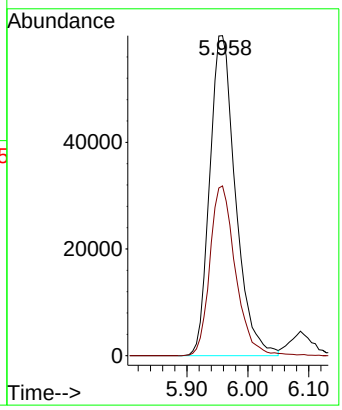




#33
1,2-Dichloroethane-d4
Concen: 40.022 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 65 Resp: 17645

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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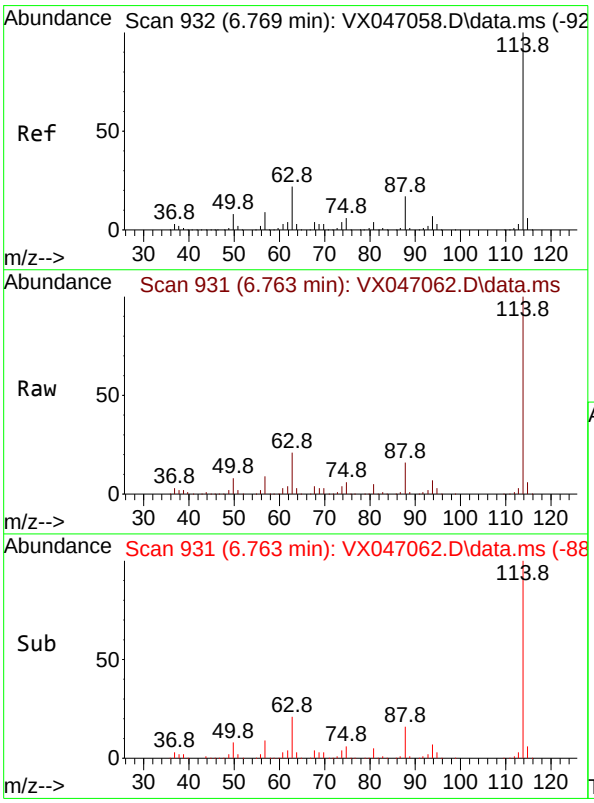
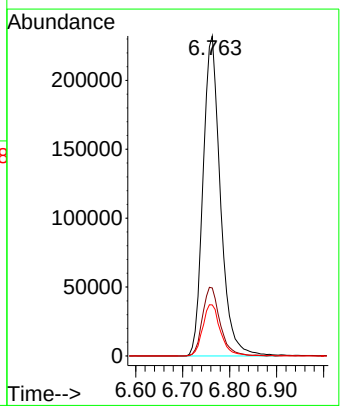
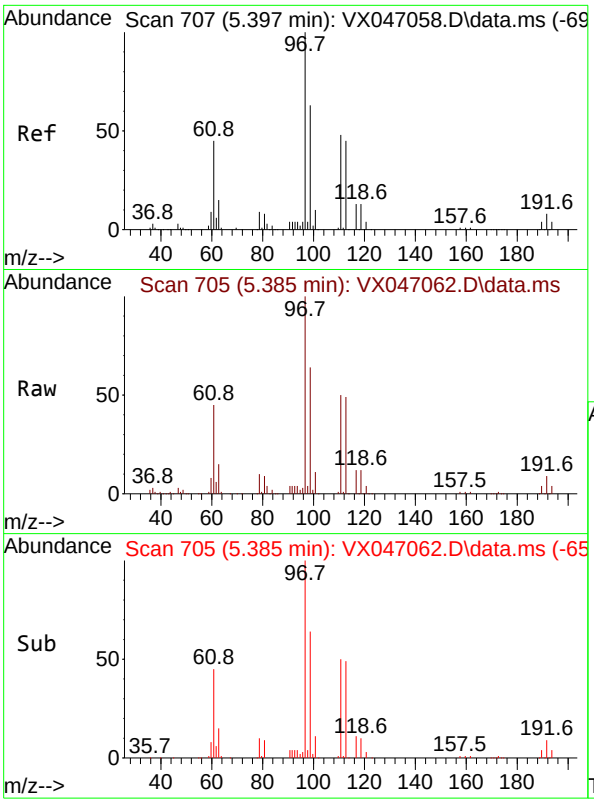


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:114 Resp: 594788

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.2
88	15.9	0.0	33.8

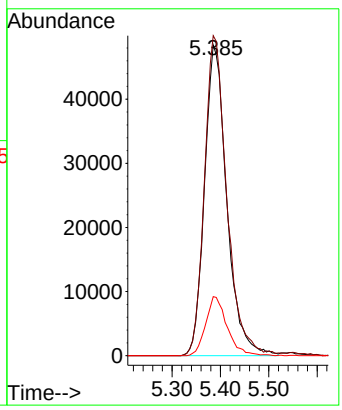




#35
Dibromofluoromethane
Concen: 42.247 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:113 Resp: 15515

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.6	124.0
192	18.3	14.9	22.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations APPROVED

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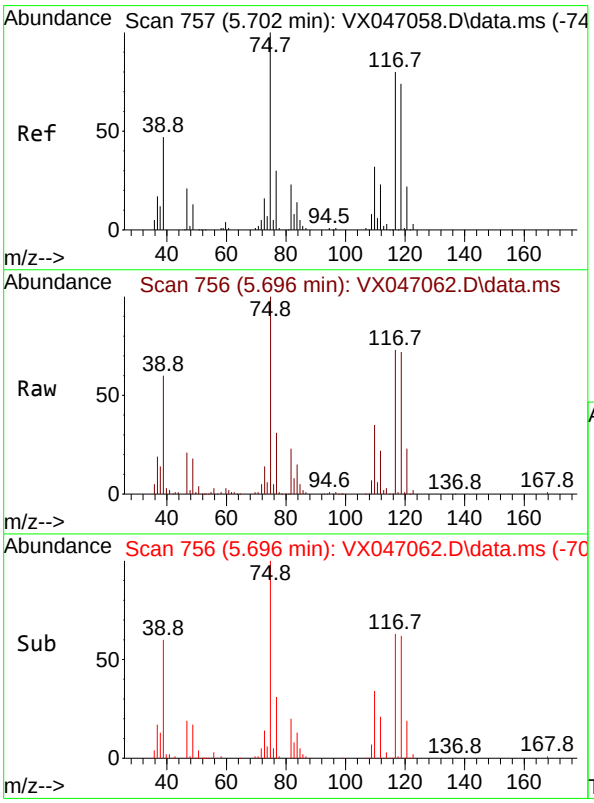
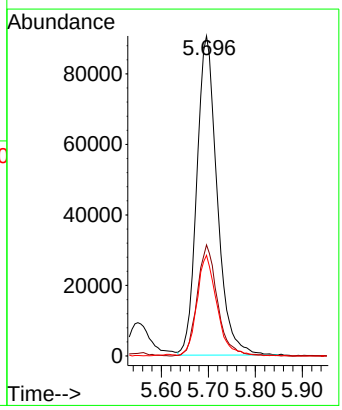
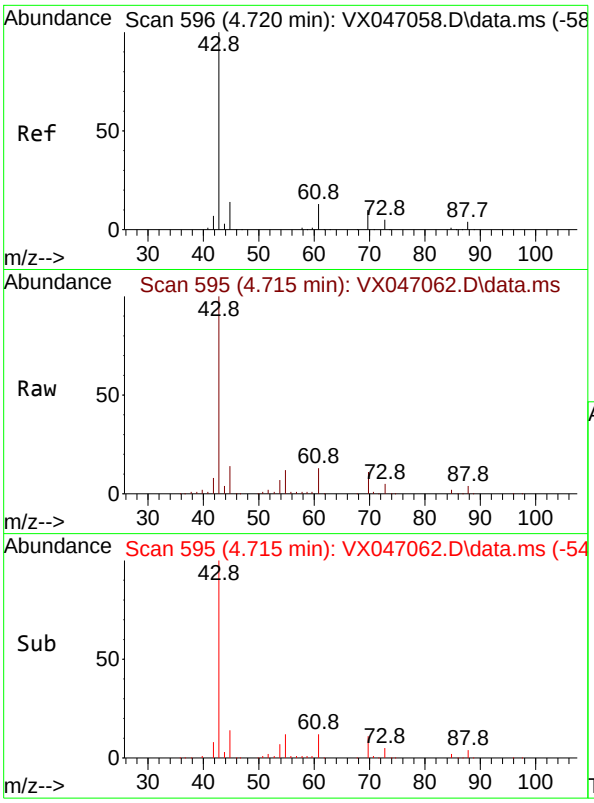


#36
1,1-Dichloropropene
Concen: 43.463 ug/l
RT: 5.696 min Scan# 756
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 75 Resp: 272074

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.2	51.5
77	30.6	25.1	37.7

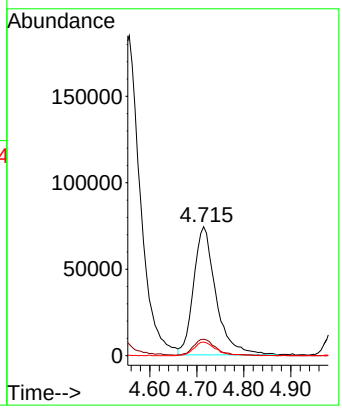




#37
Ethyl Acetate
Concen: 42.381 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 43 Resp: 24446

Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.2	15.2
70	10.7	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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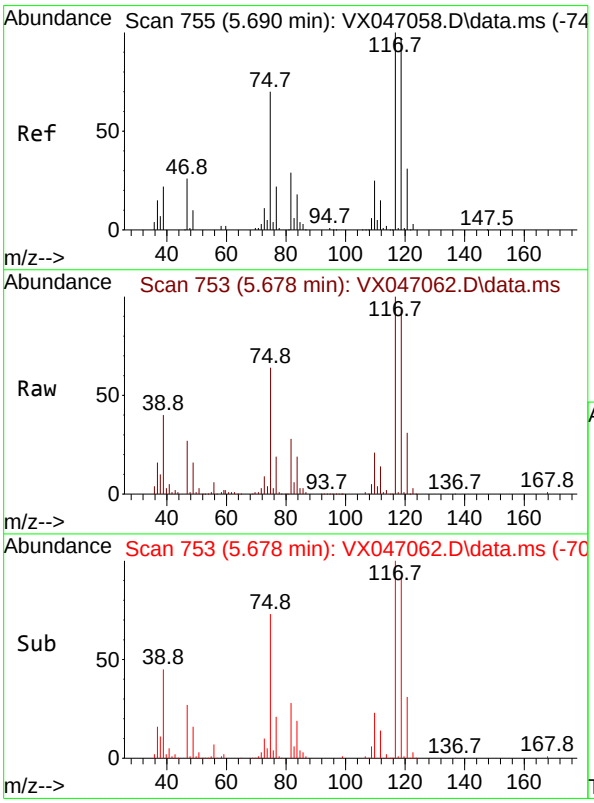
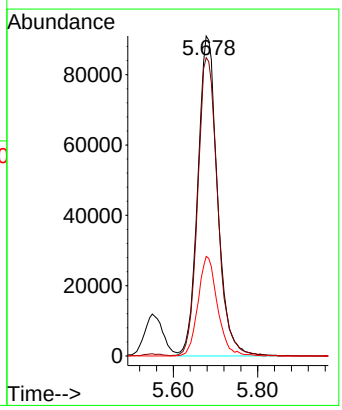
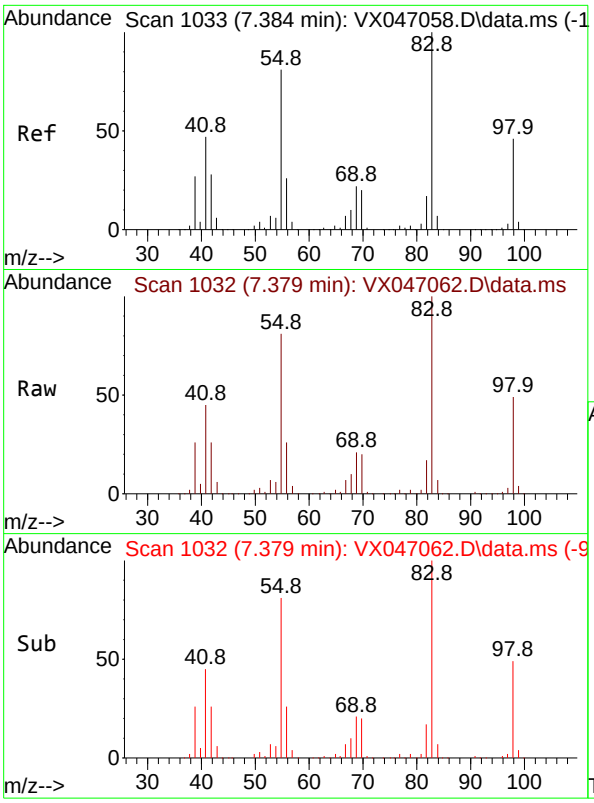


#38
Carbon Tetrachloride
Concen: 44.259 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:117 Resp: 295708

Ion	Ratio	Lower	Upper
117	100		
119	93.1	76.6	115.0
121	31.1	24.4	36.6

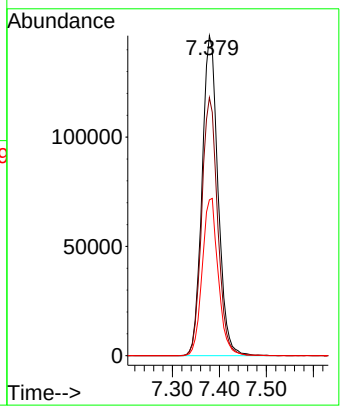




#39
Methylcyclohexane
Concen: 44.136 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 83 Resp: 34496

Ion	Ratio	Lower	Upper
83	100		
55	80.7	64.5	96.7
98	48.7	36.9	55.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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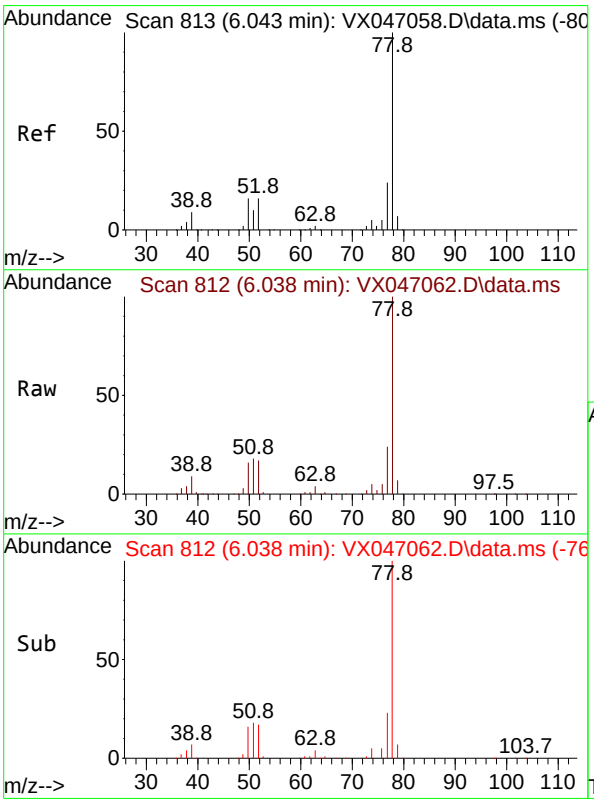
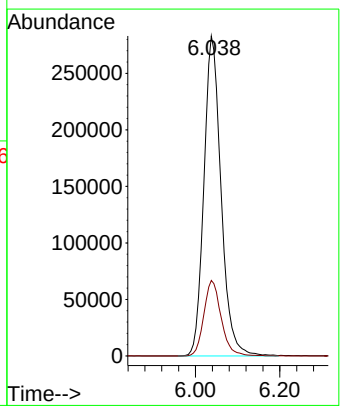
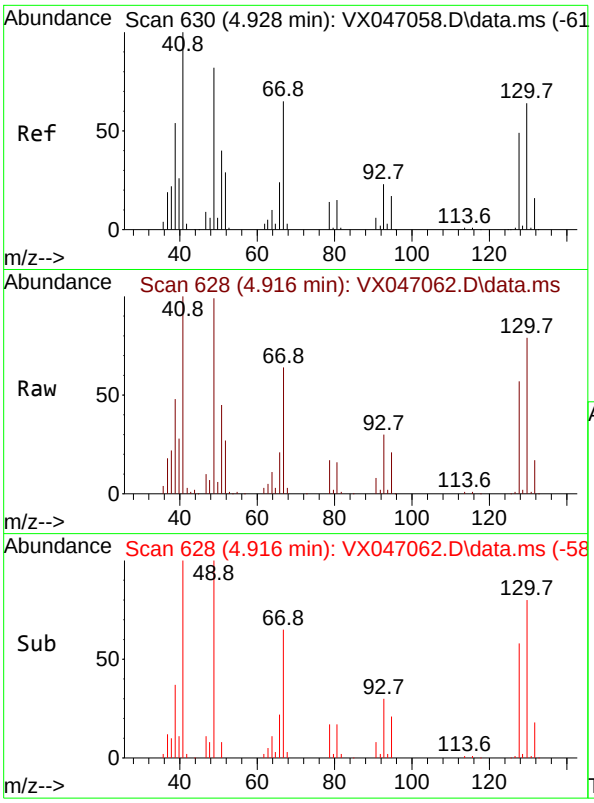


#40
Benzene
Concen: 44.304 ug/l
RT: 6.038 min Scan# 812
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 78 Resp: 802625

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4

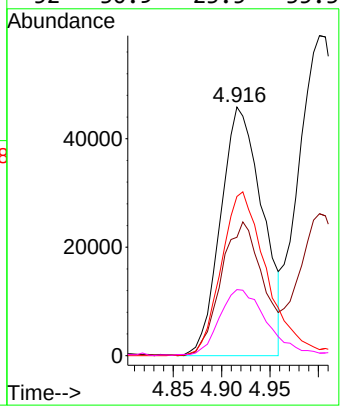




#41
Methacrylonitrile
Concen: 45.816 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 41 Resp: 13818

Ion	Ratio	Lower	Upper
41	100		
39	53.7	44.2	66.2
67	73.0	56.4	84.6
52	30.9	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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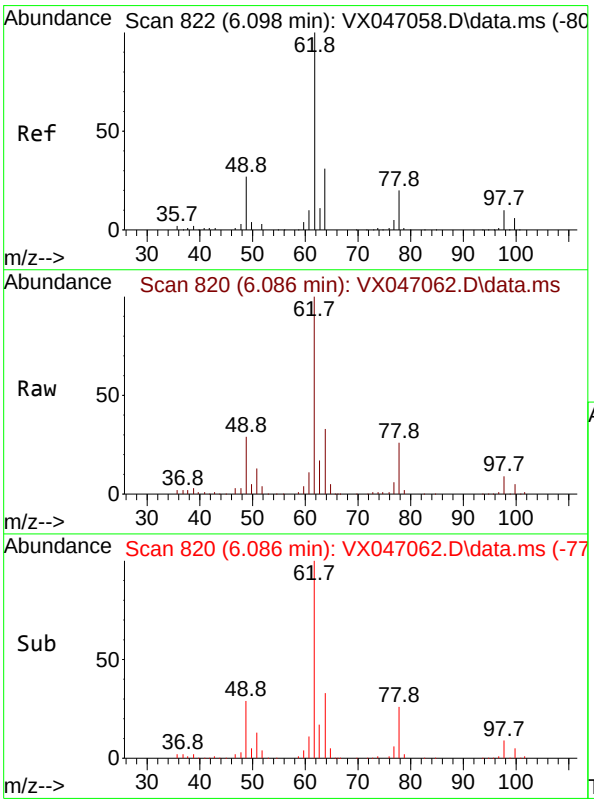
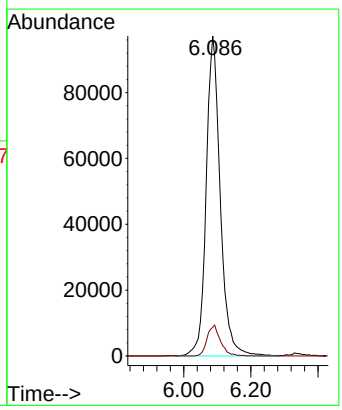
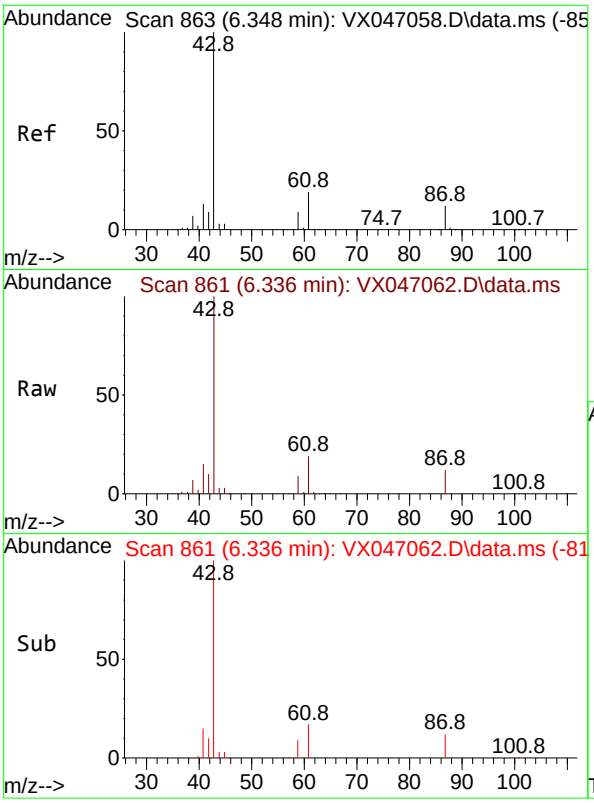


#42
1,2-Dichloroethane
Concen: 44.378 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 62 Resp: 283205

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.8

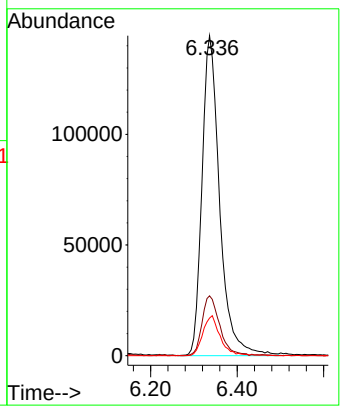




#43
Isopropyl Acetate
Concen: 45.564 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 43 Resp: 40973

Ion	Ratio	Lower	Upper
43	100		
61	18.6	15.1	22.7
87	12.3	9.7	14.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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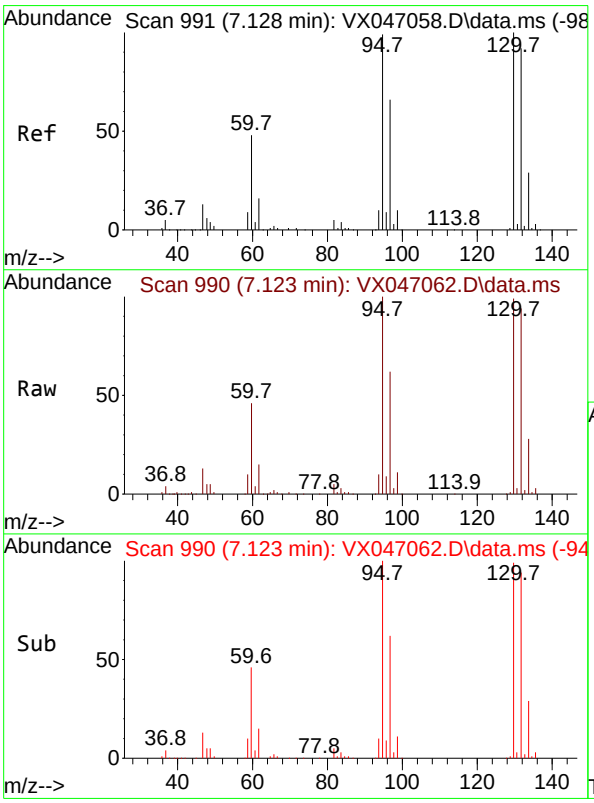
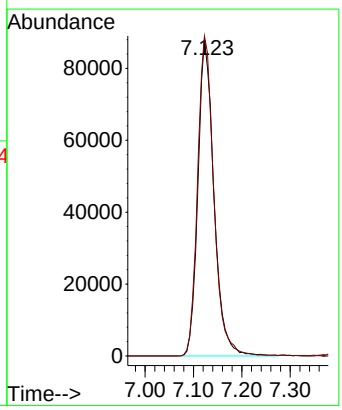
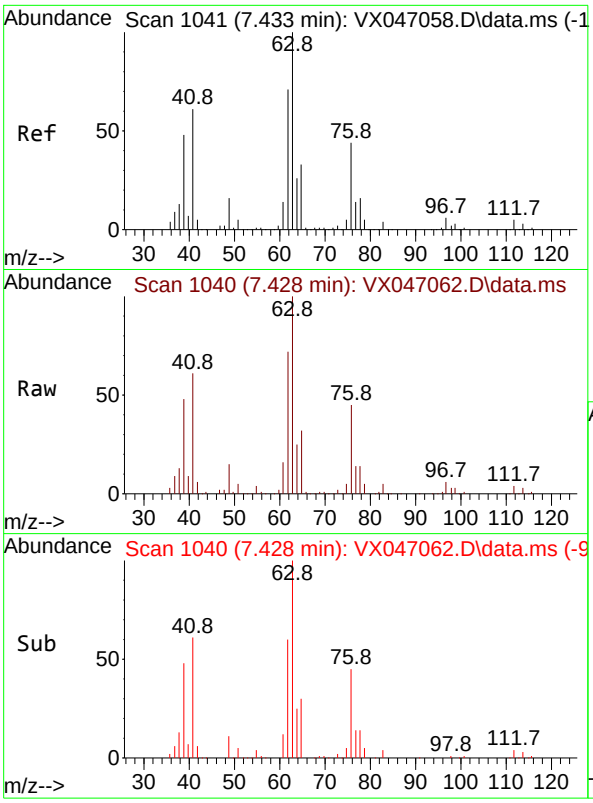


#44
Trichloroethene
Concen: 43.658 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:130 Resp: 202817

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	198.6

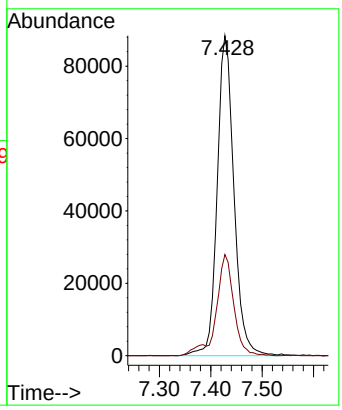




#45
1,2-Dichloropropane
Concen: 44.093 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 63 Resp: 20006

Ion	Ratio	Lower	Upper
63	100		
65	31.6	26.3	39.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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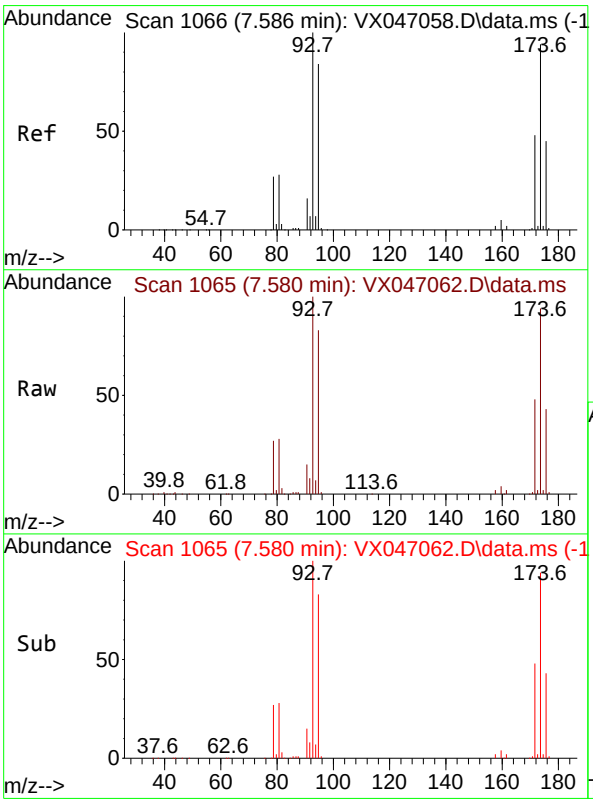
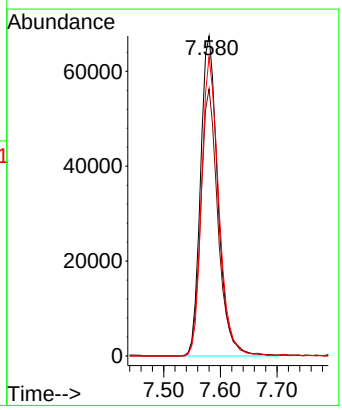
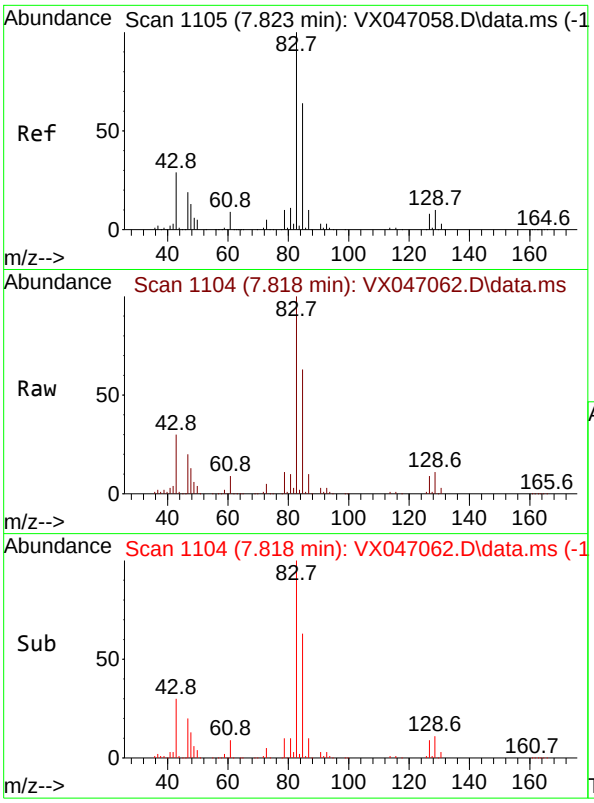


#46
Dibromomethane
Concen: 45.121 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 93 Resp: 143569

Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.9	98.9
174	92.1	74.6	112.0

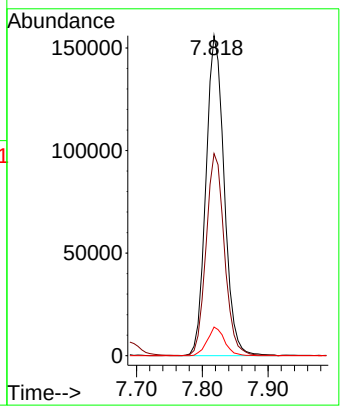




#47
Bromodichloromethane
Concen: 44.463 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 83 Resp: 30113

Ion	Ratio	Lower	Upper
83	100		
85	63.2	49.9	74.9
127	8.9	6.6	10.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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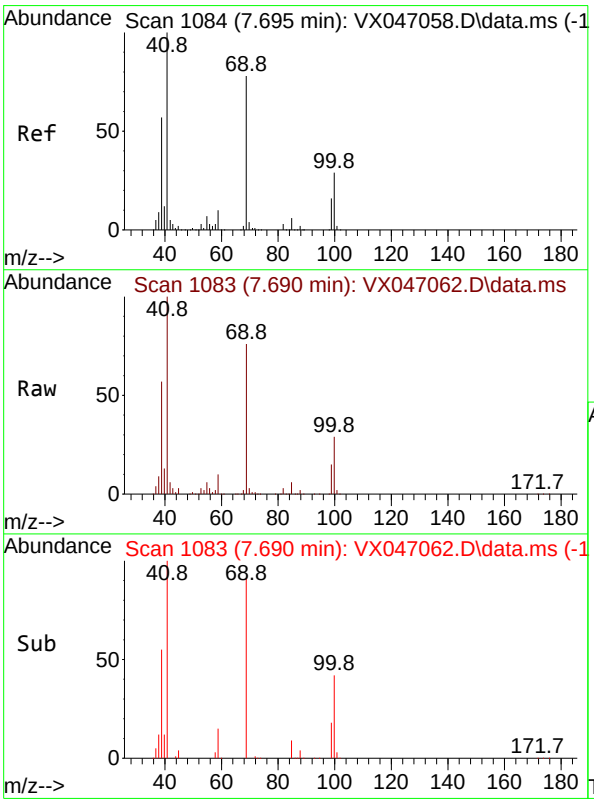
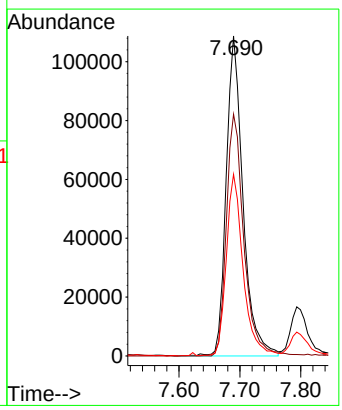
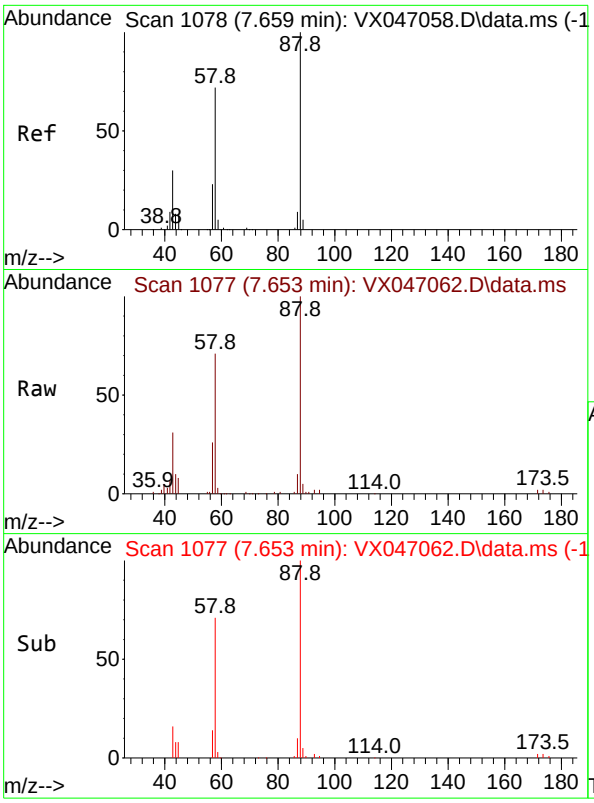


#48
Methyl methacrylate
Concen: 42.505 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 41 Resp: 208228

Ion	Ratio	Lower	Upper
41	100		
69	78.4	62.3	93.5
39	56.5	44.8	67.2

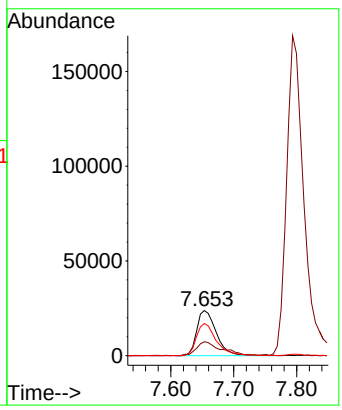




#49
1,4-Dioxane
Concen: 916.760 ug/l m
RT: 7.653 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 88 Resp: 5108

Ion	Ratio	Lower	Upper
88	100		
43	40.2	33.6	50.4
58	73.3	58.8	88.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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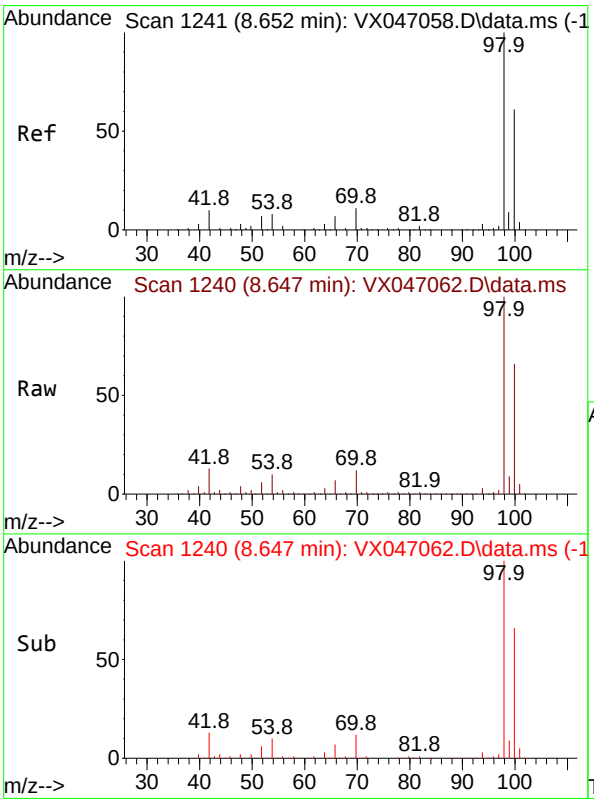
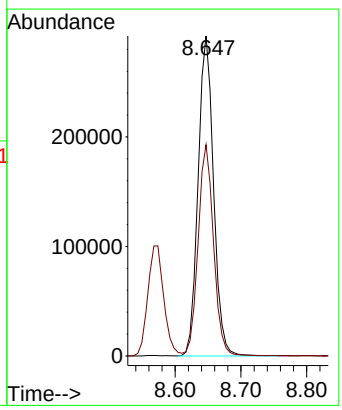
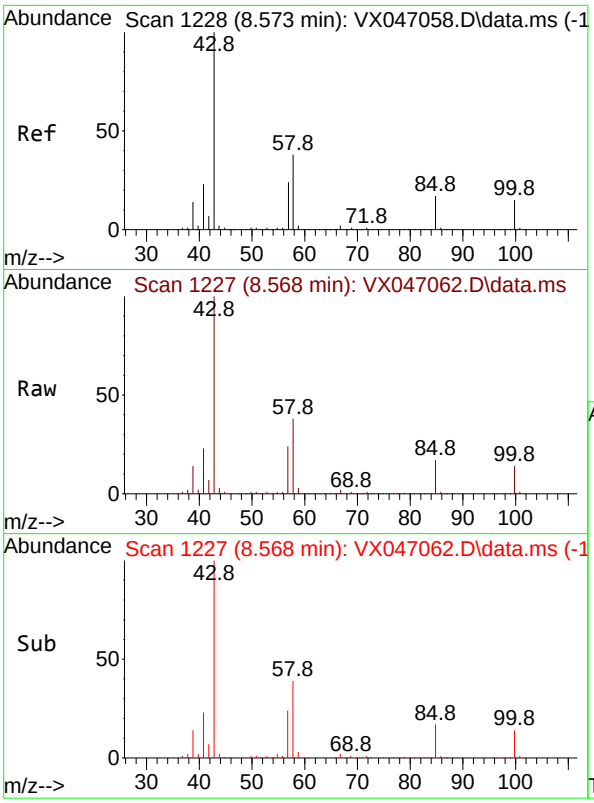


#50
Toluene-d8
Concen: 40.102 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 98 Resp: 476939

Ion	Ratio	Lower	Upper
98	100		
100	65.8	53.3	79.9

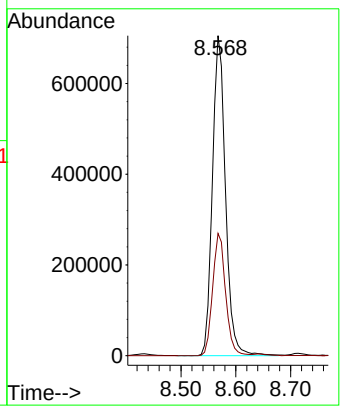




#51
4-Methyl-2-Pentanone
Concen: 217.774 ug/l
RT: 8.568 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 43 Resp: 116401

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.6	45.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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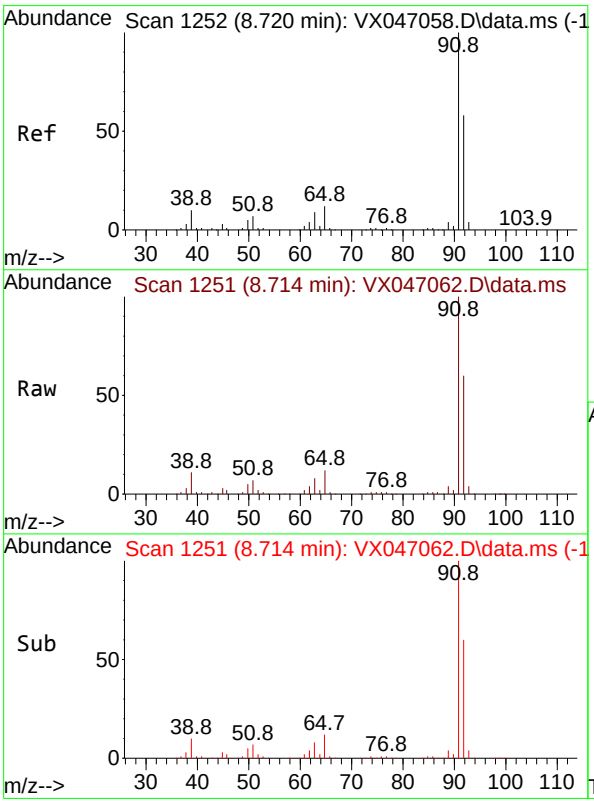
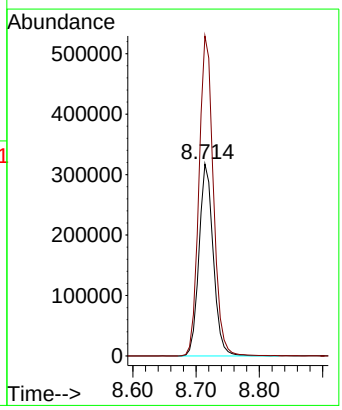
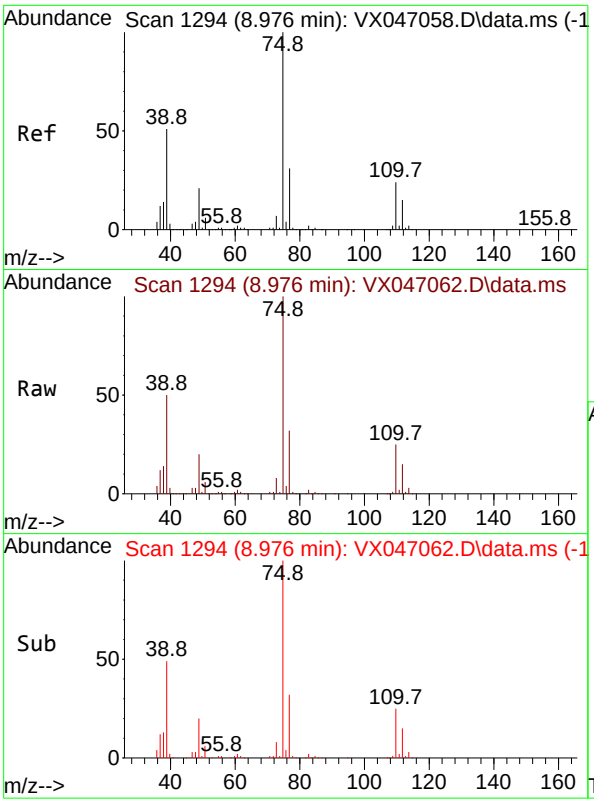


#52
Toluene
Concen: 44.778 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 92 Resp: 498799

Ion	Ratio	Lower	Upper
92	100		
91	168.3	137.9	206.9

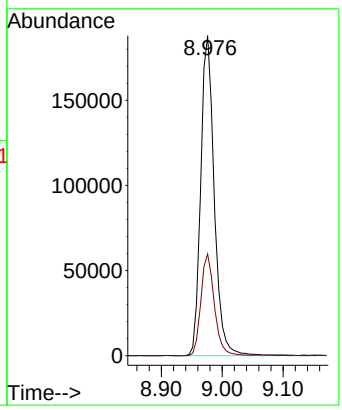




#53
t-1,3-Dichloropropene
Concen: 45.444 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 75 Resp: 29063

Ion	Ratio	Lower	Upper
75	100		
77	31.8	24.5	36.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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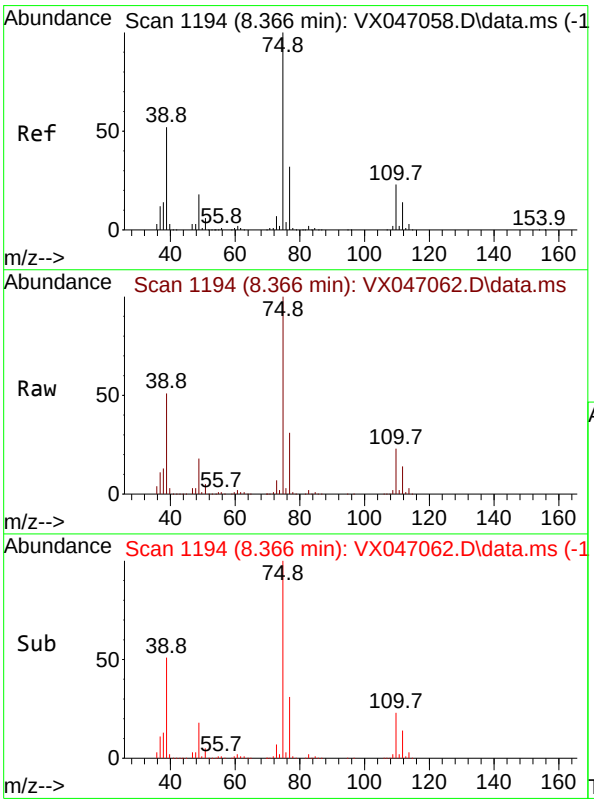
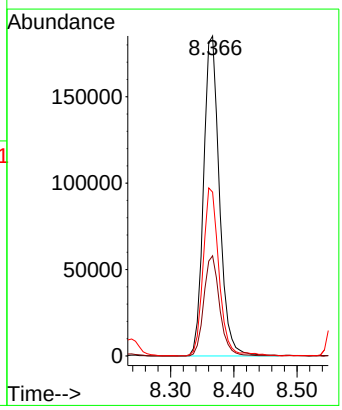
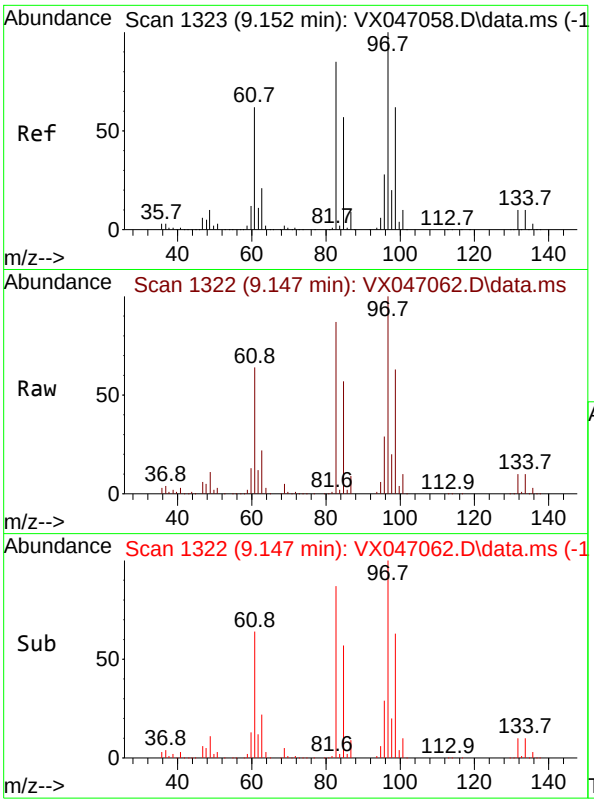


#54
cis-1,3-Dichloropropene
Concen: 46.140 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 75 Resp: 322967

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.4	38.0
39	50.6	41.8	62.6

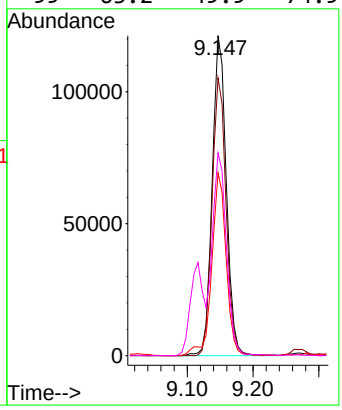




#55
1,1,2-Trichloroethane
Concen: 43.270 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 97 Resp: 18076

Ion	Ratio	Lower	Upper
97	100		
83	86.8	68.0	102.0
85	57.1	45.2	67.8
99	63.2	49.9	74.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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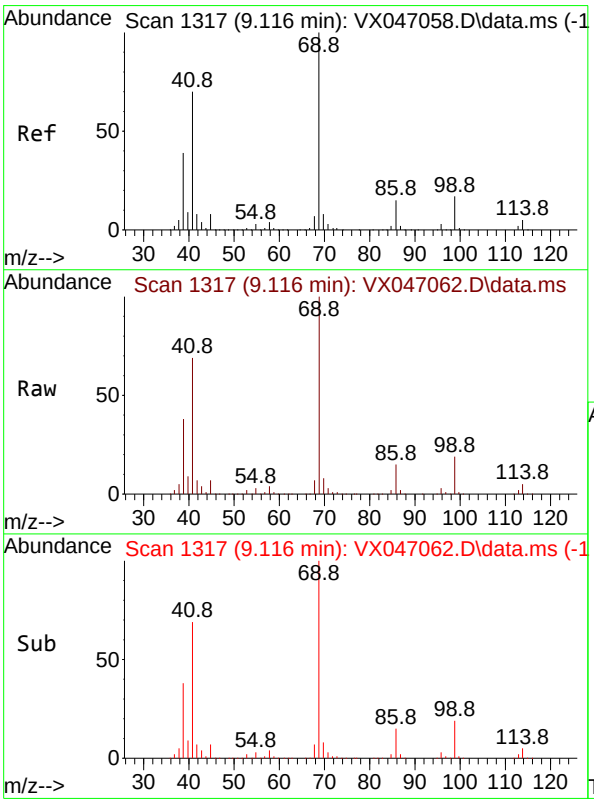
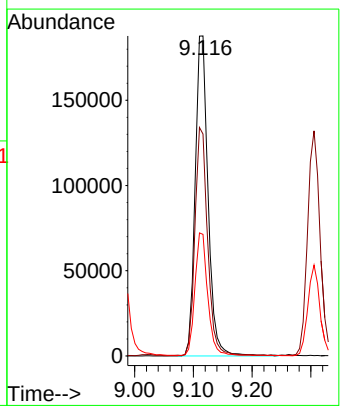
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

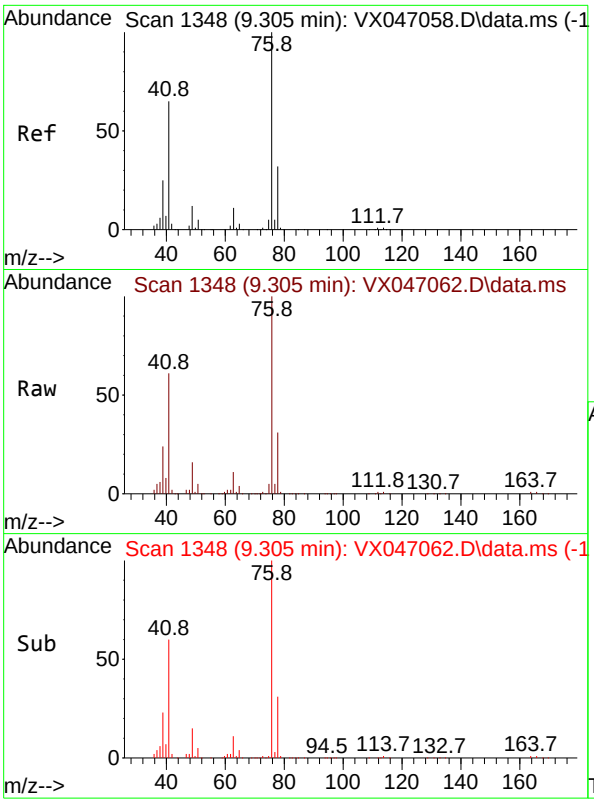


#56
Ethyl methacrylate
Concen: 46.334 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 69 Resp: 286552

Ion	Ratio	Lower	Upper
69	100		
41	70.0	56.1	84.1
39	38.3	31.1	46.7

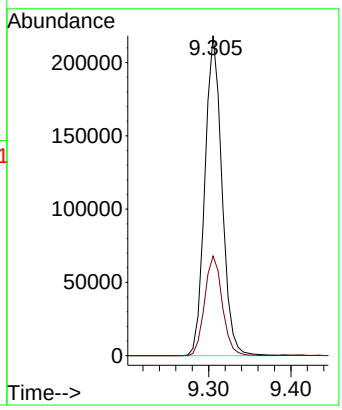




#57
1,3-Dichloropropane
Concen: 43.350 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 76 Resp: 31473

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.5	38.3



Instrument :
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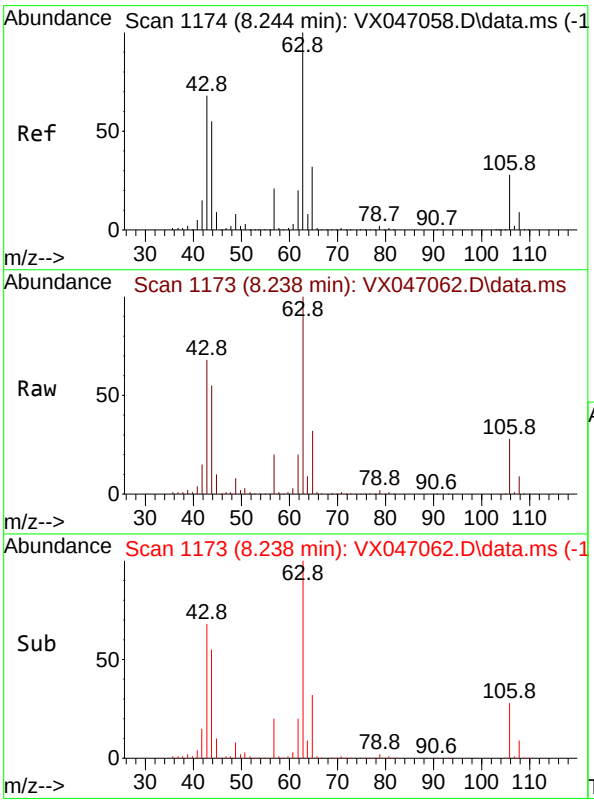
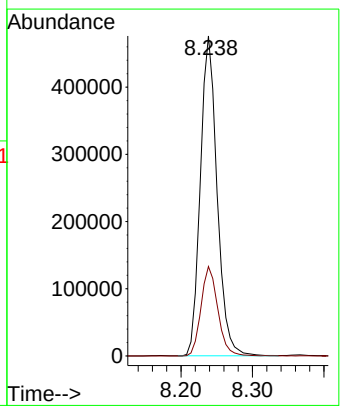
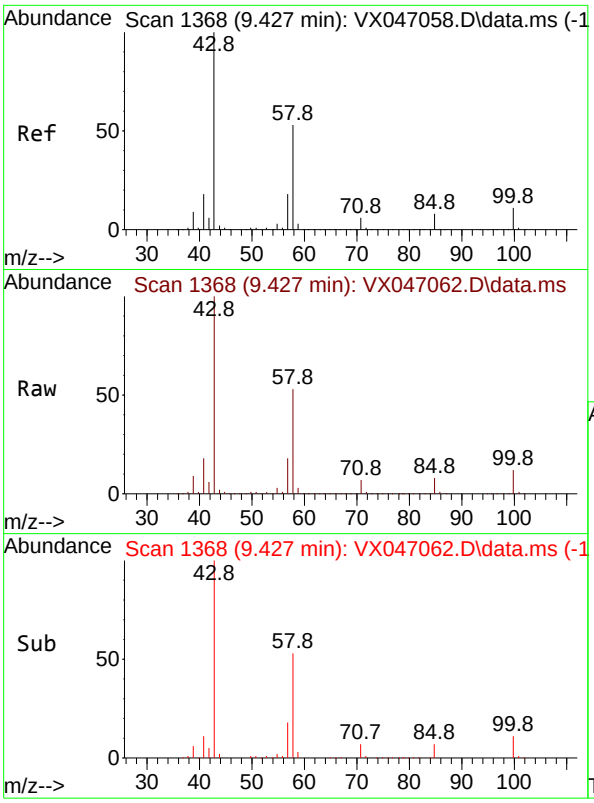


#58
2-Chloroethyl Vinyl ether
Concen: 225.188 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 63 Resp: 774980

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.2	33.4





#59
2-Hexanone
Concen: 228.755 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 43 Resp: 80782

Ion	Ratio	Lower	Upper
43	100		
58	52.8	26.5	79.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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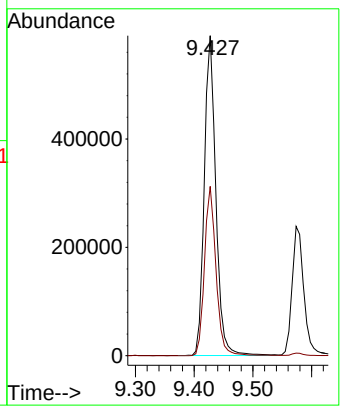
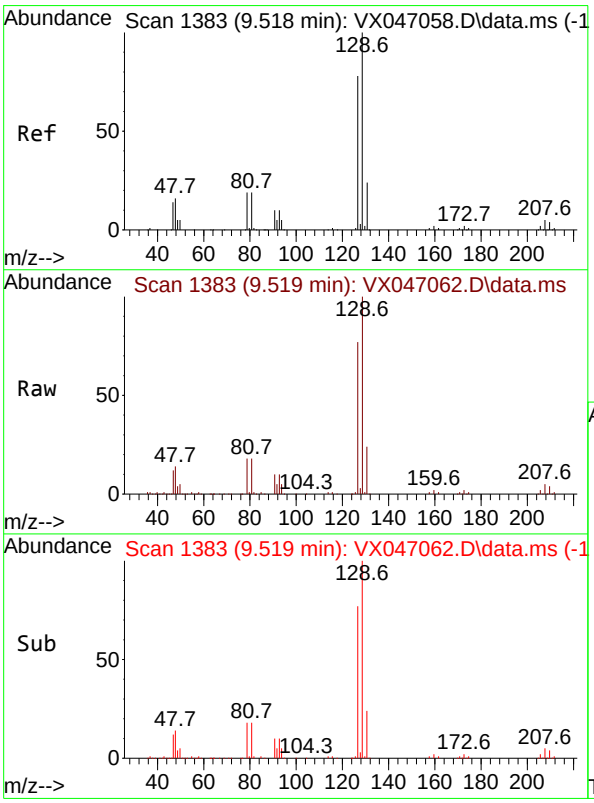
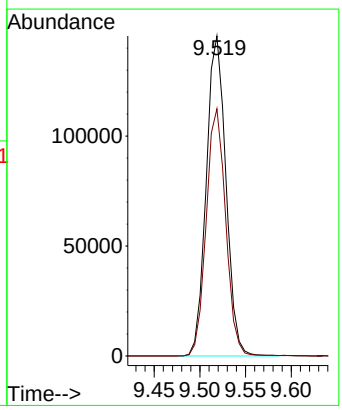


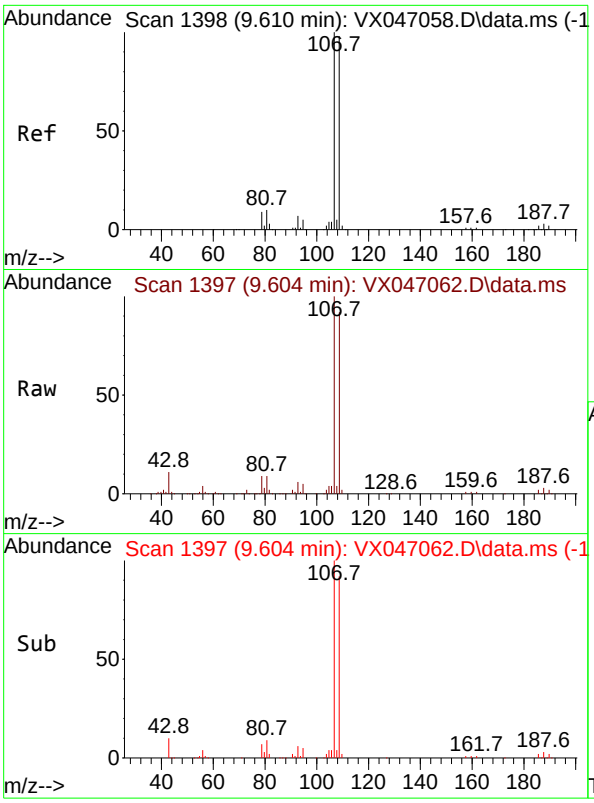


#60
Dibromochloromethane
Concen: 44.239 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:129 Resp: 216749

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.6	115.8

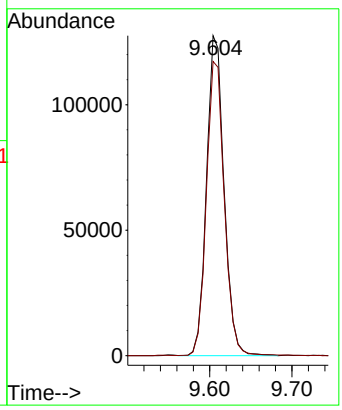




#61
1,2-Dibromoethane
Concen: 43.202 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:107 Resp: 18871

Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
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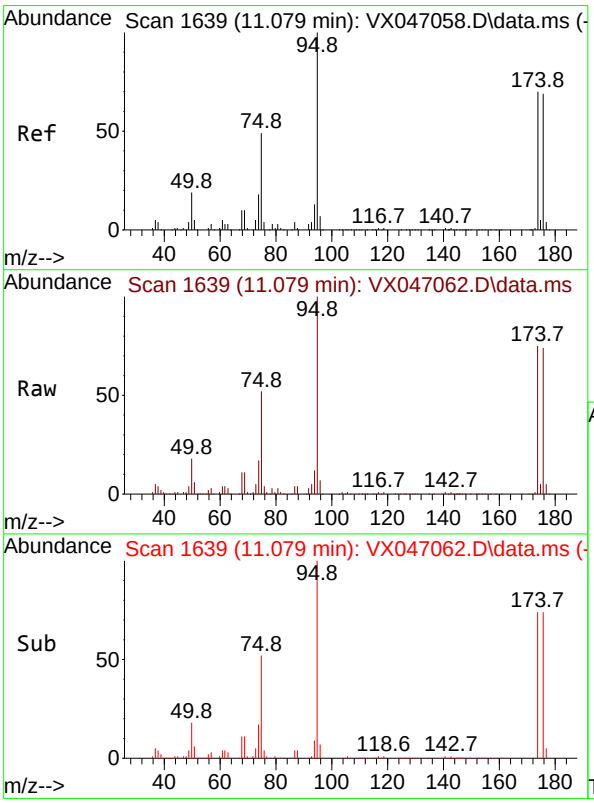
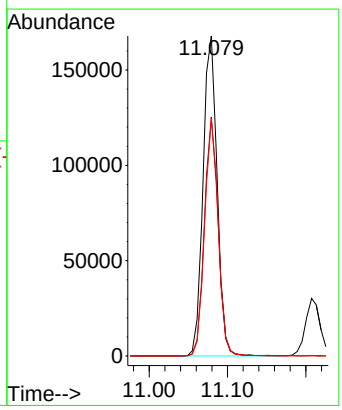
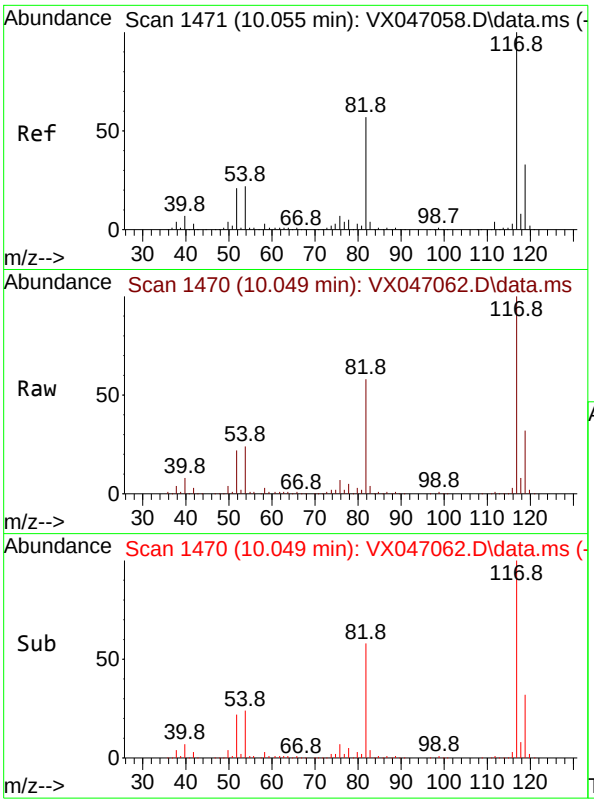


#62
4-Bromofluorobenzene
Concen: 40.779 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 95 Resp: 209003

Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	144.6
176	71.8	0.0	139.6

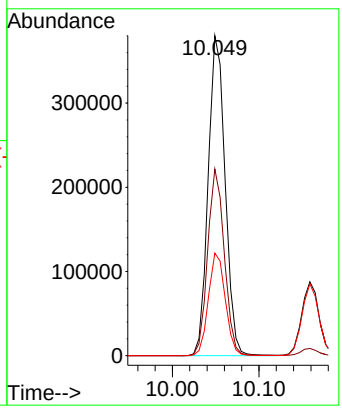




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:117 Resp: 51690

Ion	Ratio	Lower	Upper
117	100		
82	58.4	45.4	68.2
119	32.1	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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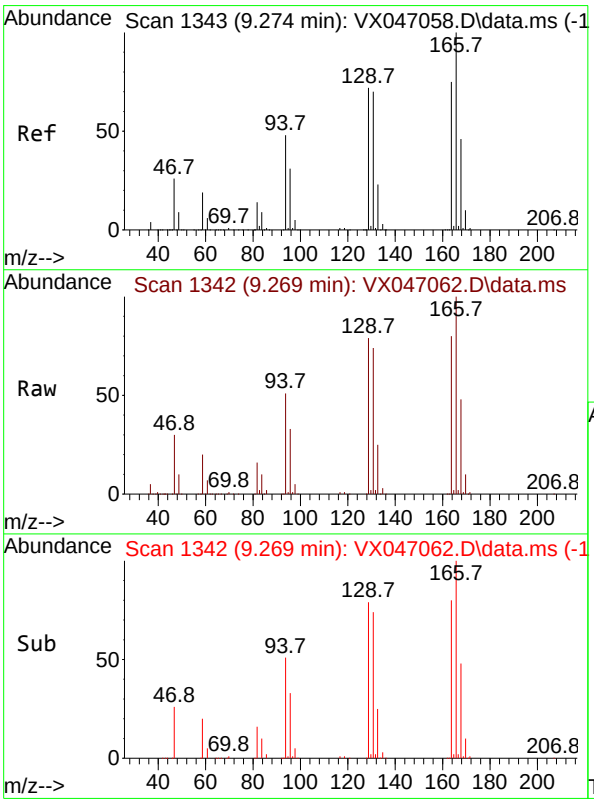
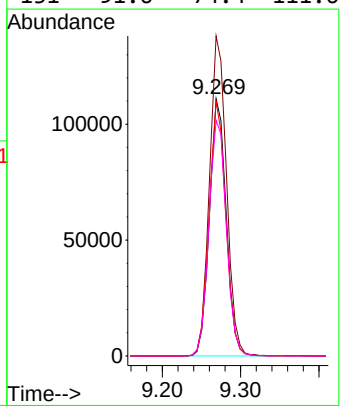
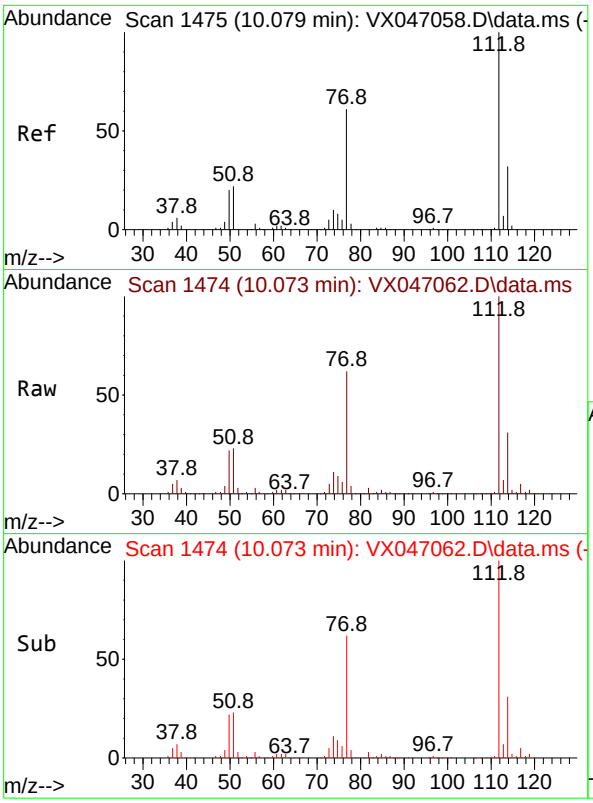


#64
Tetrachloroethene
Concen: 44.131 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:164 Resp: 164447

Ion	Ratio	Lower	Upper
164	100		
166	124.5	106.2	159.4
129	98.9	76.6	114.8
131	91.6	74.4	111.6

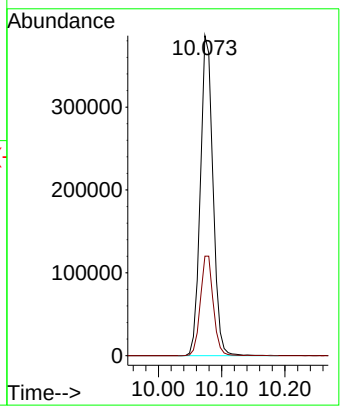




#65
Chlorobenzene
Concen: 44.318 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:112 Resp: 53666

Ion	Ratio	Lower	Upper
112	100		
114	31.1	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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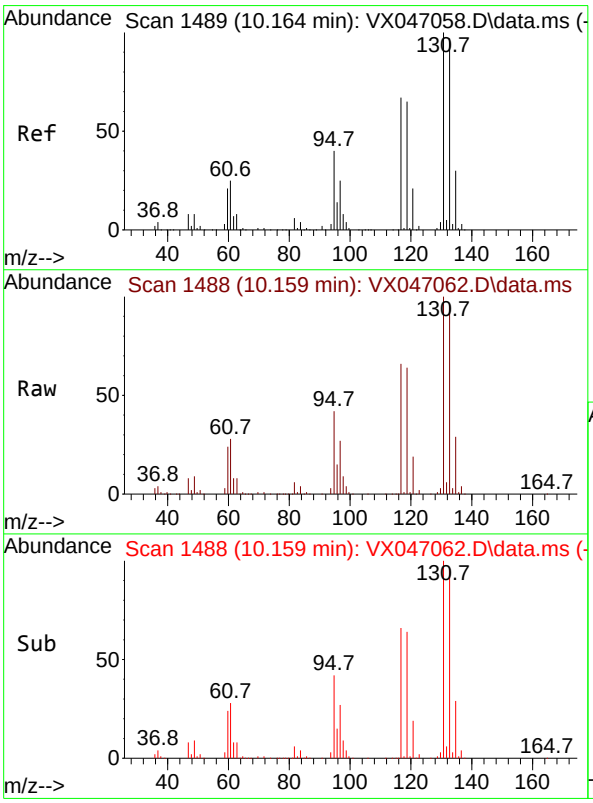
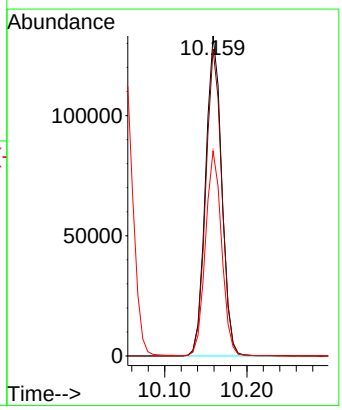
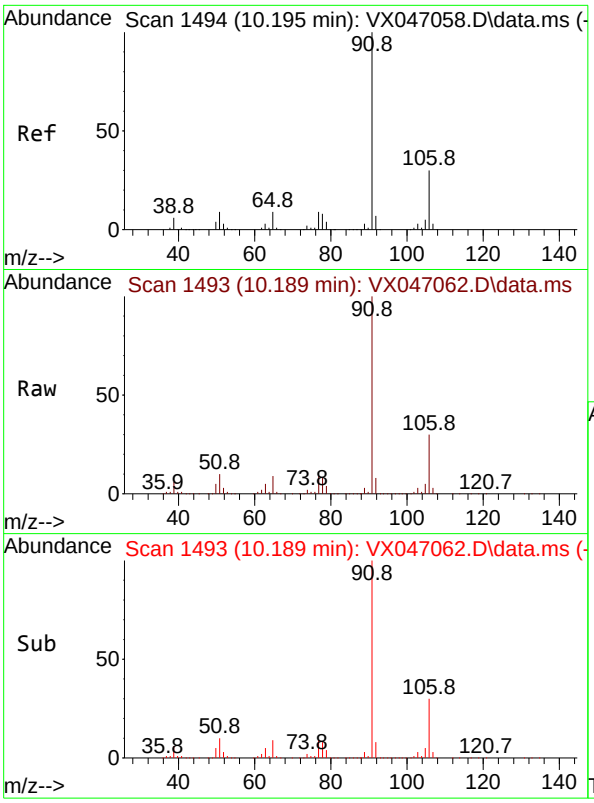


#66
1,1,1,2-Tetrachloroethane
Concen: 44.529 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:131 Resp: 181544

Ion	Ratio	Lower	Upper
131	100		
133	95.3	48.4	145.3
119	63.9	32.4	97.0

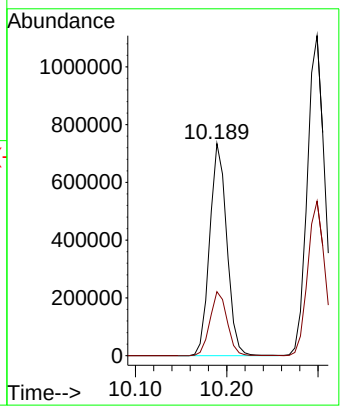




#67
Ethyl Benzene
Concen: 44.977 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 91 Resp: 95228

Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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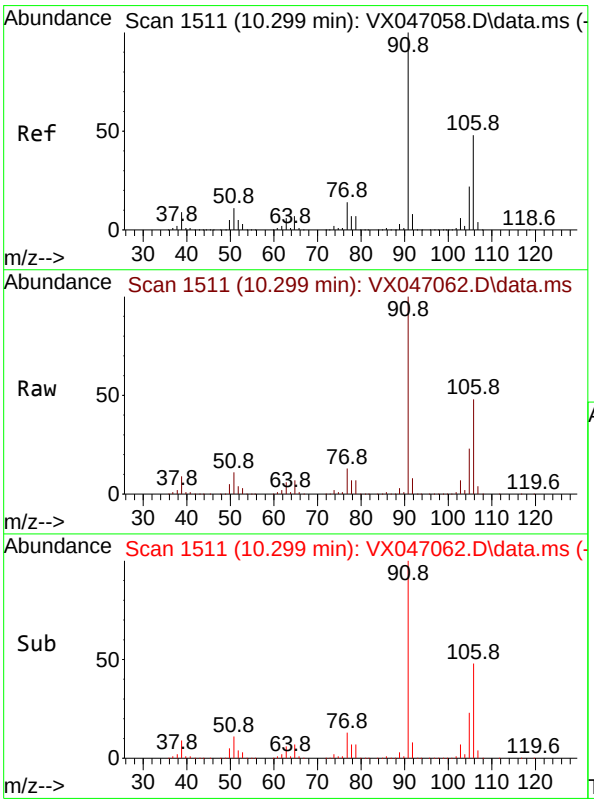
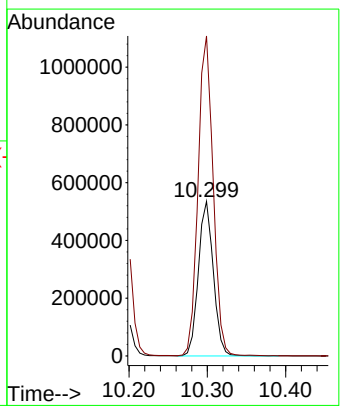
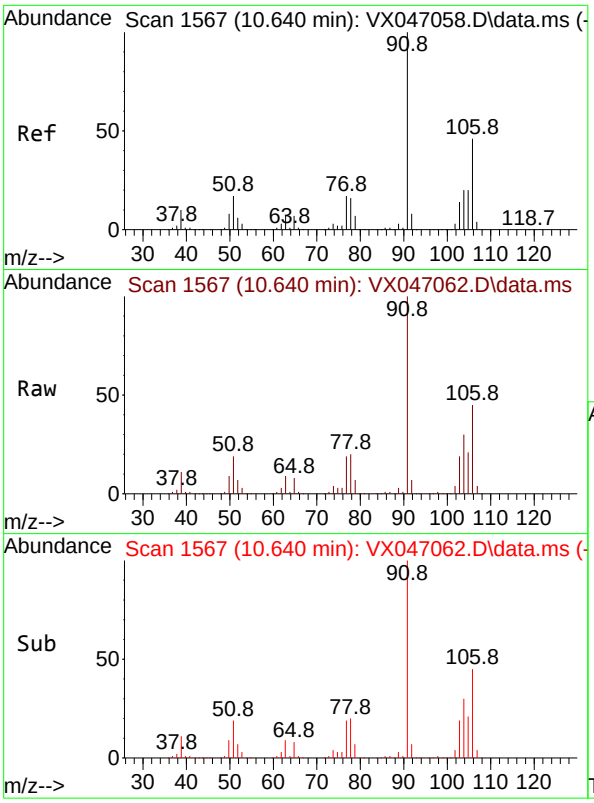


#68
m/p-Xylenes
Concen: 89.564 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:106 Resp: 709639

Ion	Ratio	Lower	Upper
106	100		
91	209.3	167.4	251.0

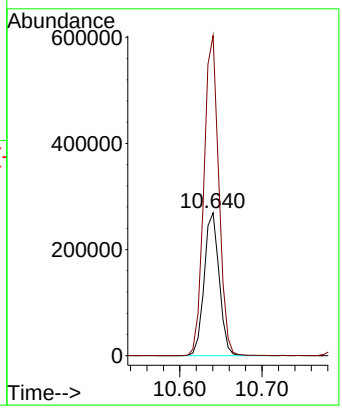




#69
o-Xylene
Concen: 45.328 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:106 Resp: 34166

Ion	Ratio	Lower	Upper
106	100		
91	222.1	110.3	331.0



Instrument :
MSVOA_X
ClientSampleId :
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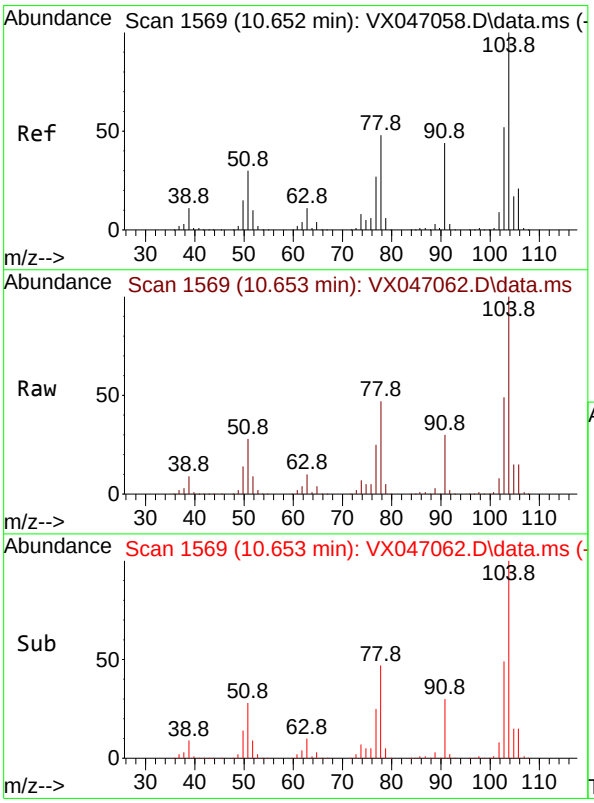
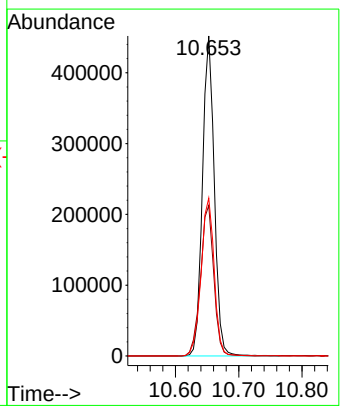
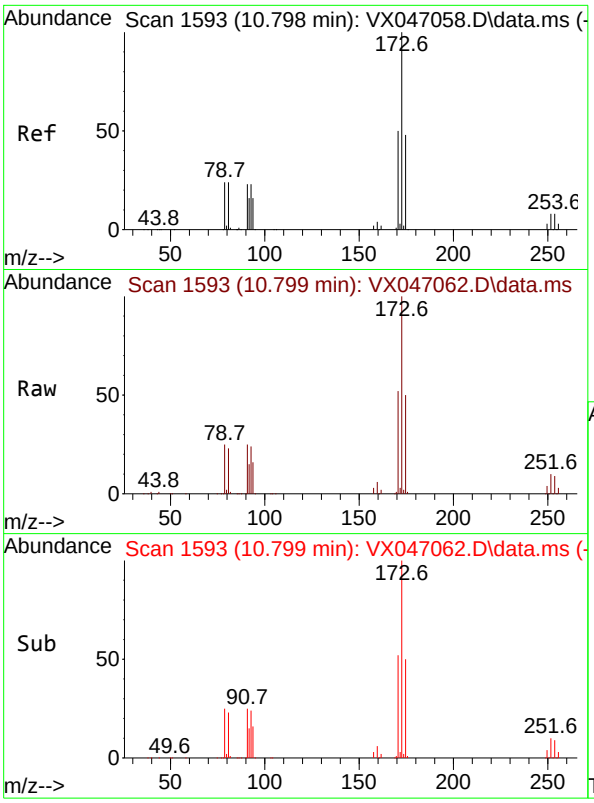


#70
Styrene
Concen: 45.618 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:104 Resp: 589610

Ion	Ratio	Lower	Upper
104	100		
78	52.6	42.0	63.0
103	54.7	43.8	65.6

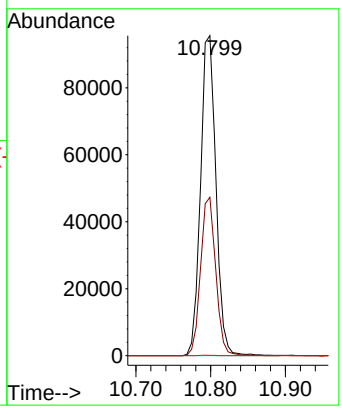




#71
Bromoform
Concen: 44.106 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:173 Resp: 13659

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.2	72.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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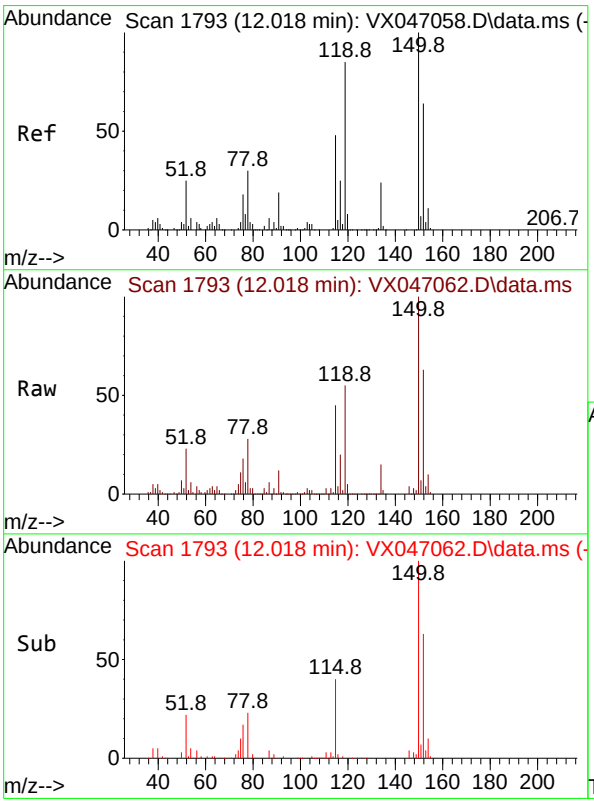
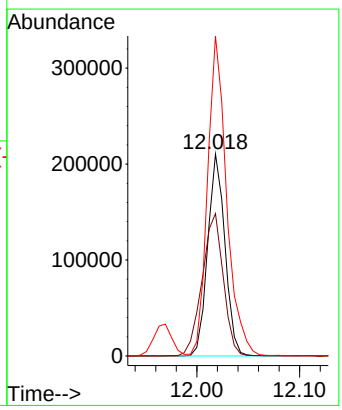
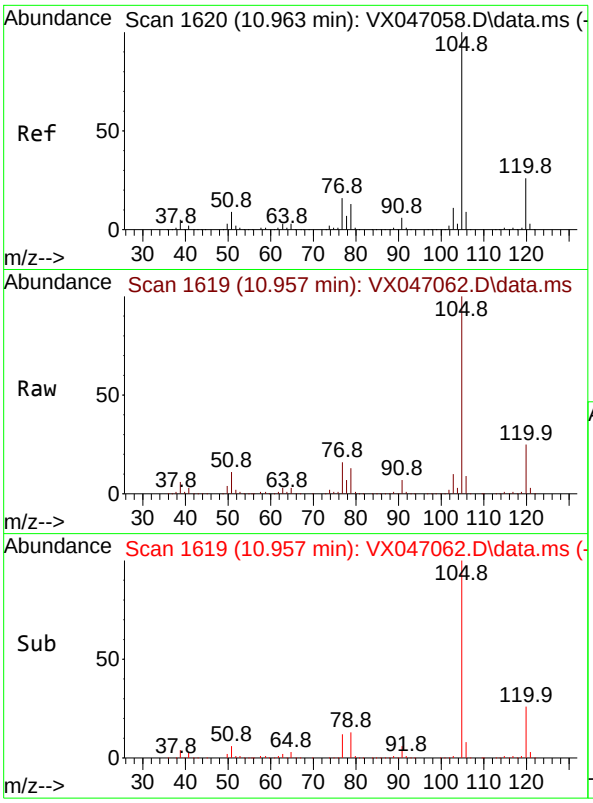


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:152 Resp: 245093

Ion	Ratio	Lower	Upper
152	100		
115	86.9	45.6	136.7
150	175.5	0.0	354.6

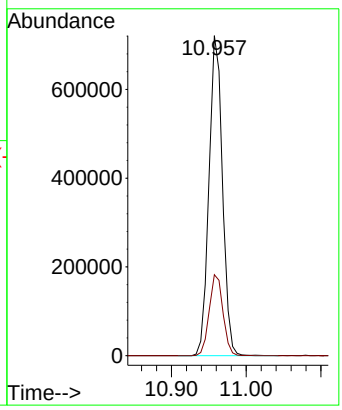




#73
Isopropylbenzene
Concen: 46.708 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:105 Resp: 90315

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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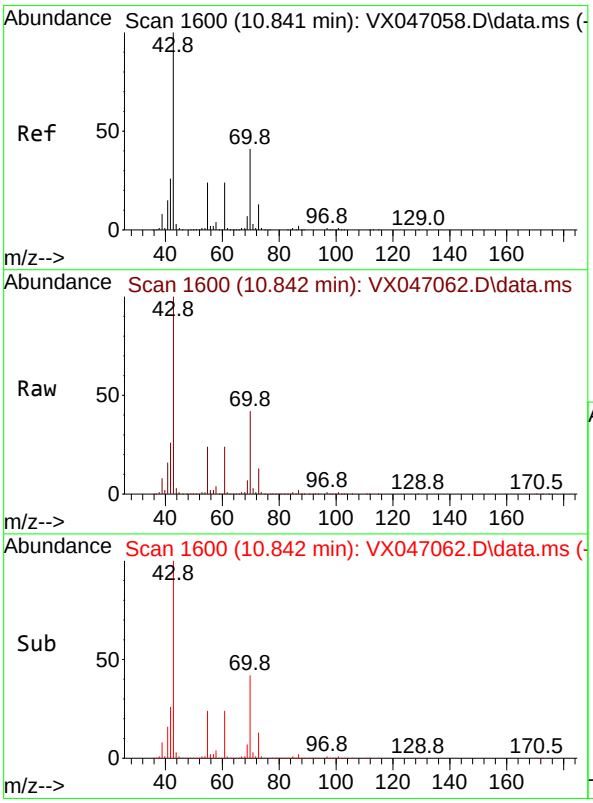
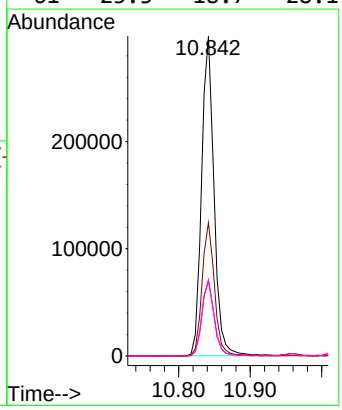
Supervised By :Mahesh Dadoda 07/22/2025

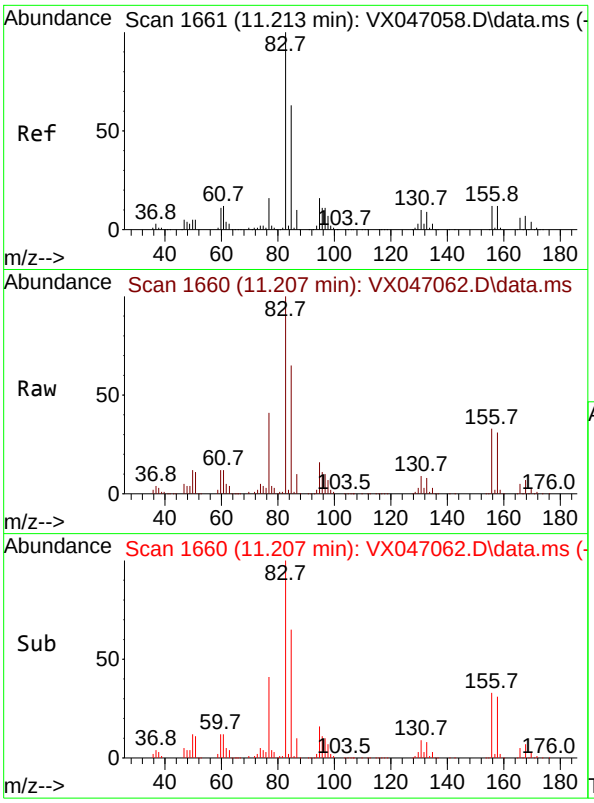


#74
N-amyl acetate
Concen: 46.238 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 43 Resp: 360744

Ion	Ratio	Lower	Upper
43	100		
70	41.5	32.3	48.5
55	23.8	18.9	28.3
61	23.3	18.7	28.1

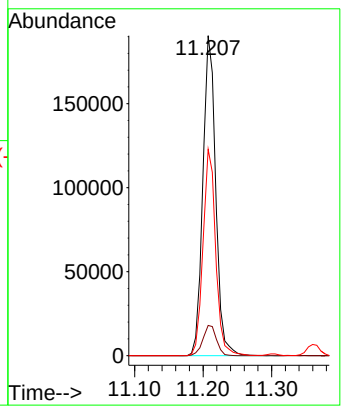




#75
1,1,2,2-Tetrachloroethane
Concen: 45.037 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 83 Resp: 24875

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	63.7	32.0	96.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations
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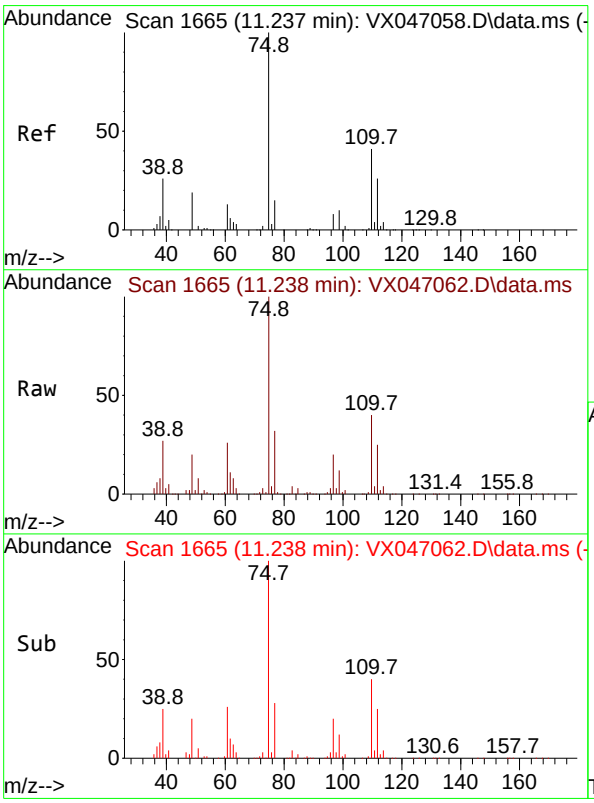
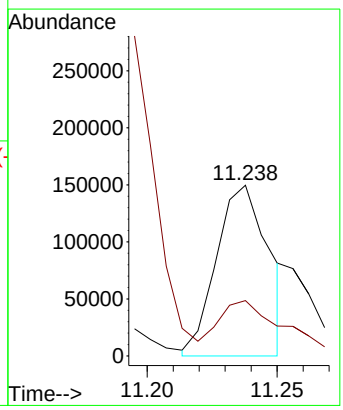
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

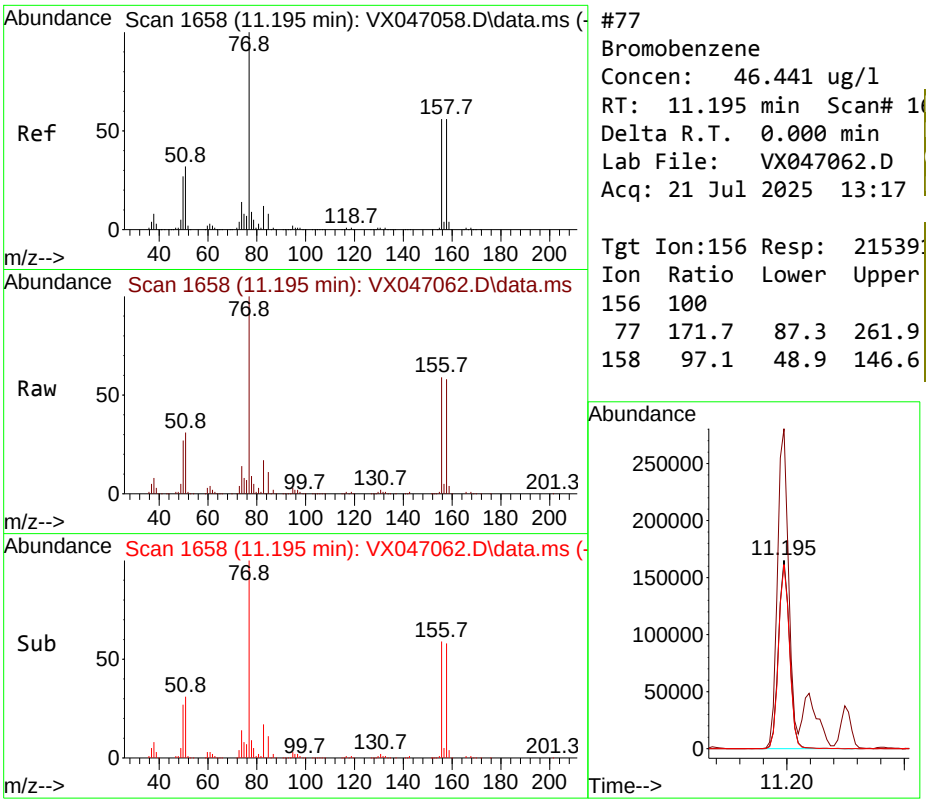


#76
1,2,3-Trichloropropane
Concen: 46.113 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 75 Resp: 209195

Ion	Ratio	Lower	Upper
75	100		
77	41.1	21.6	65.0





#77
Bromobenzene
Concen: 46.441 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:156 Resp: 21539

Ion	Ratio	Lower	Upper
156	100		
77	171.7	87.3	261.9
158	97.1	48.9	146.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations APPROVED

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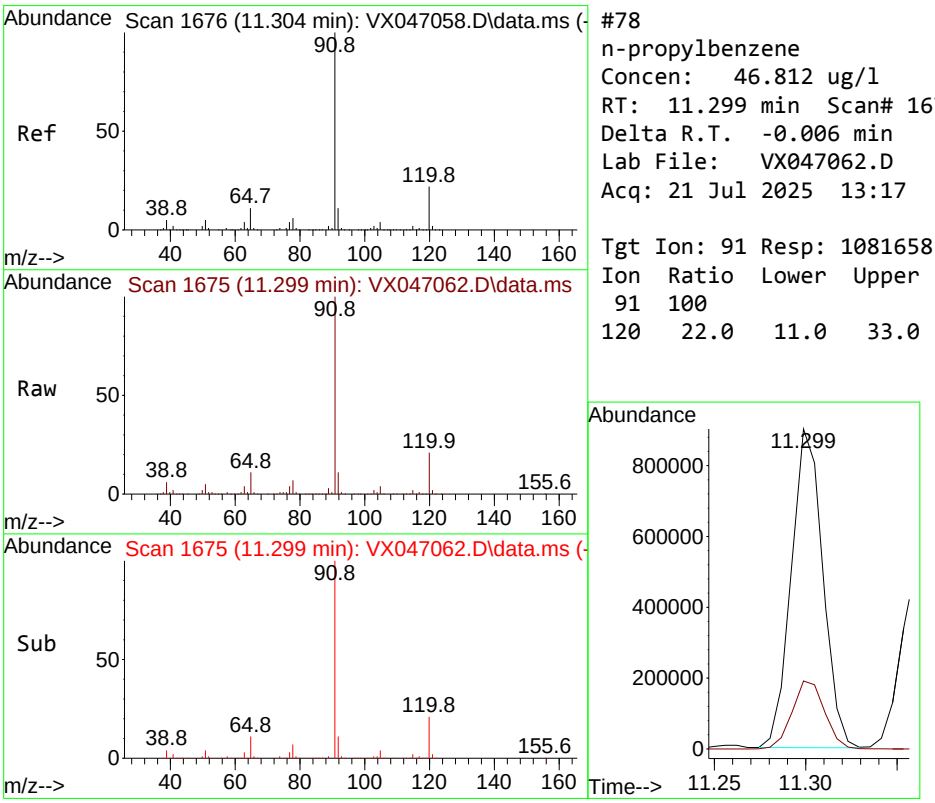
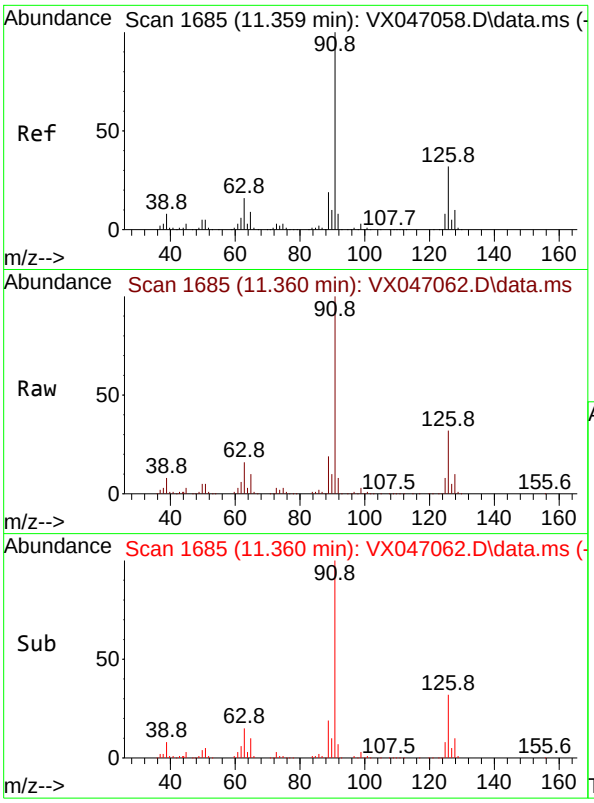


#78
n-propylbenzene
Concen: 46.812 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 91 Resp: 1081658

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0



#79
2-Chlorotoluene
Concen: 45.702 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 91 Resp: 63125

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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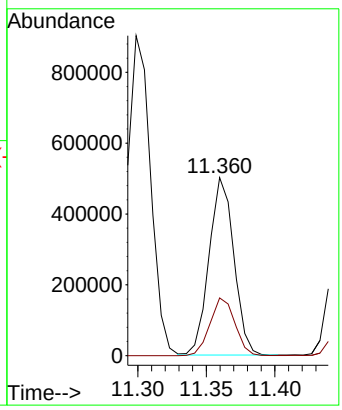
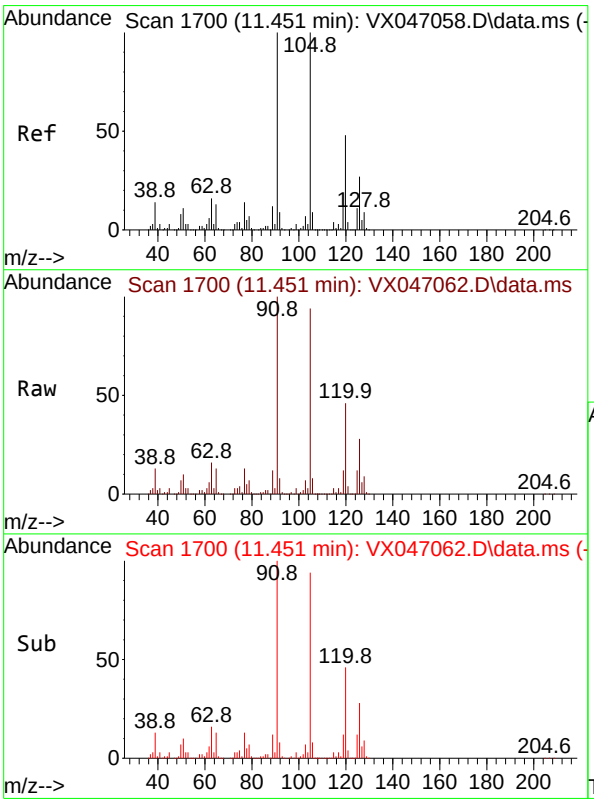
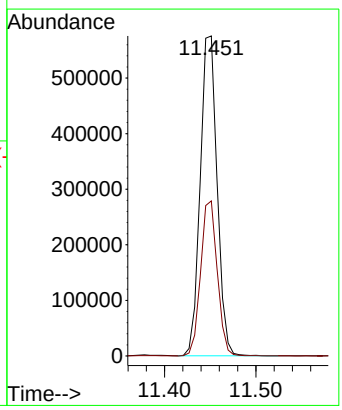


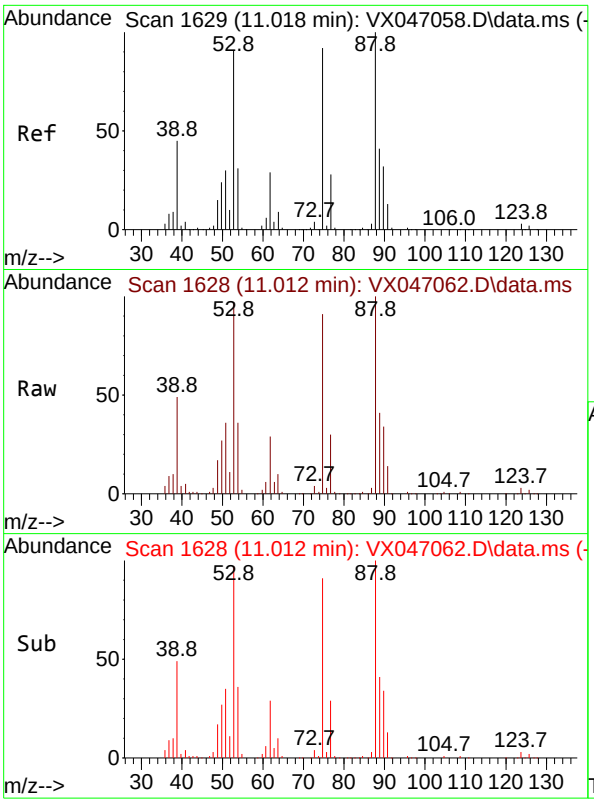


#80
1,3,5-Trimethylbenzene
Concen: 46.187 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:105 Resp: 737827

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.8	71.5





#81
trans-1,4-Dichloro-2-butene
Concen: 45.380 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 75 Resp: 7990

Ion	Ratio	Lower	Upper
75	100		
53	106.6	84.2	126.4
89	48.7	36.0	54.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations
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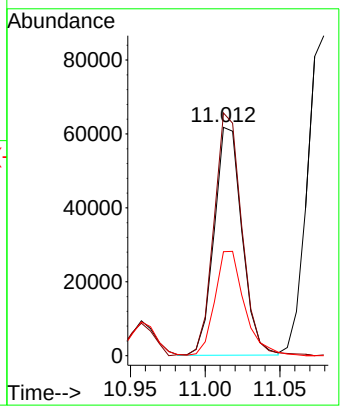
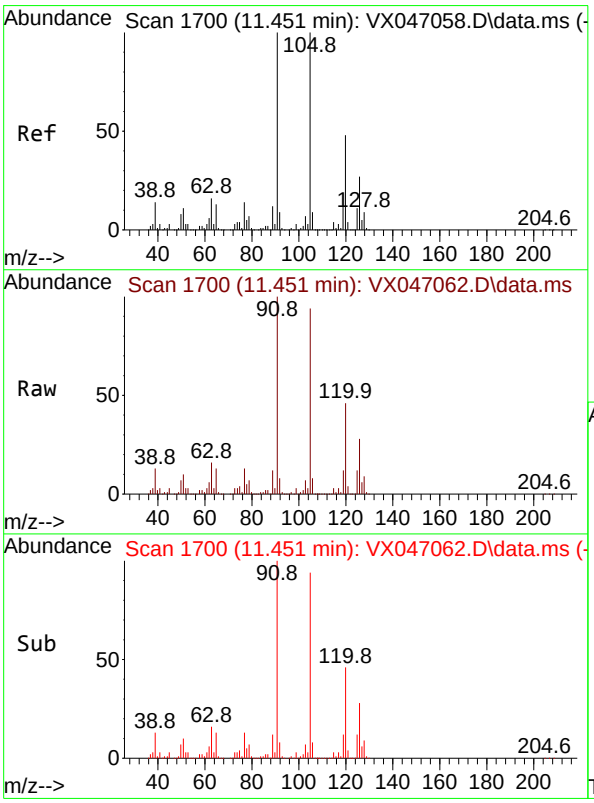
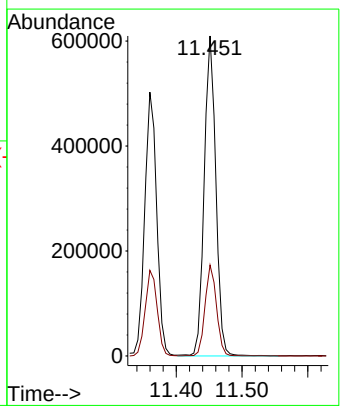


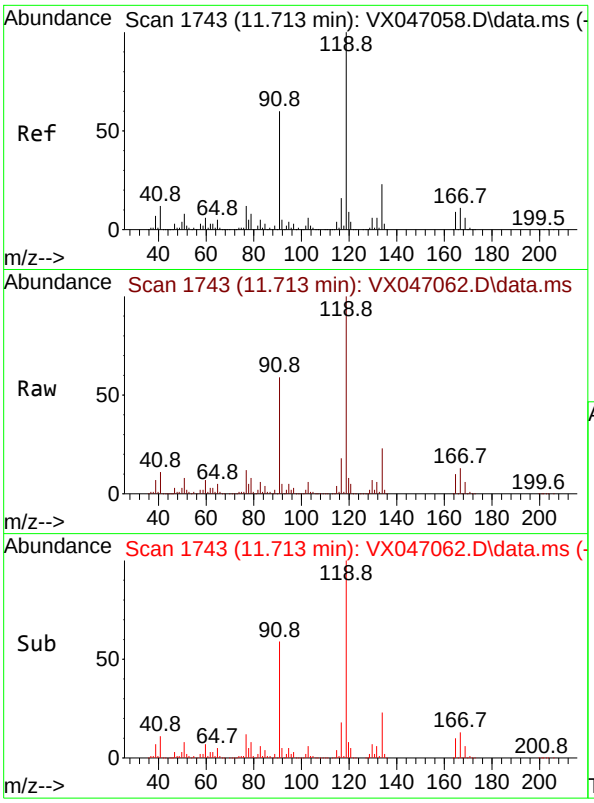


#82
4-Chlorotoluene
Concen: 46.476 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 91 Resp: 749299

Ion	Ratio	Lower	Upper
91	100		
126	27.9	14.1	42.3

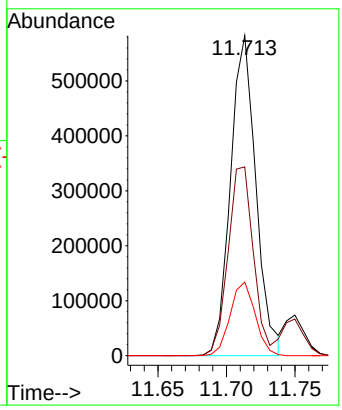




#83
tert-Butylbenzene
Concen: 46.942 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:119 Resp: 75265

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.7	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations
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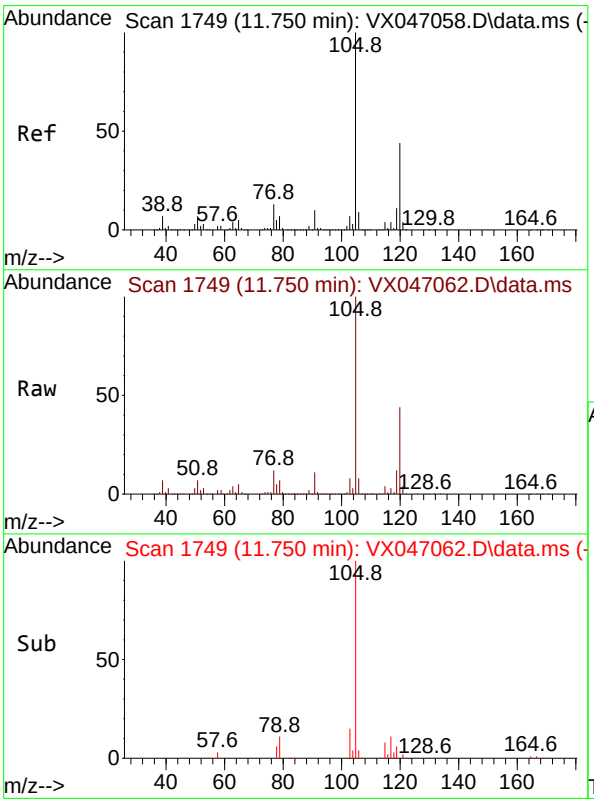
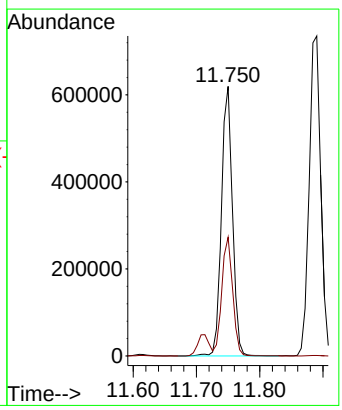
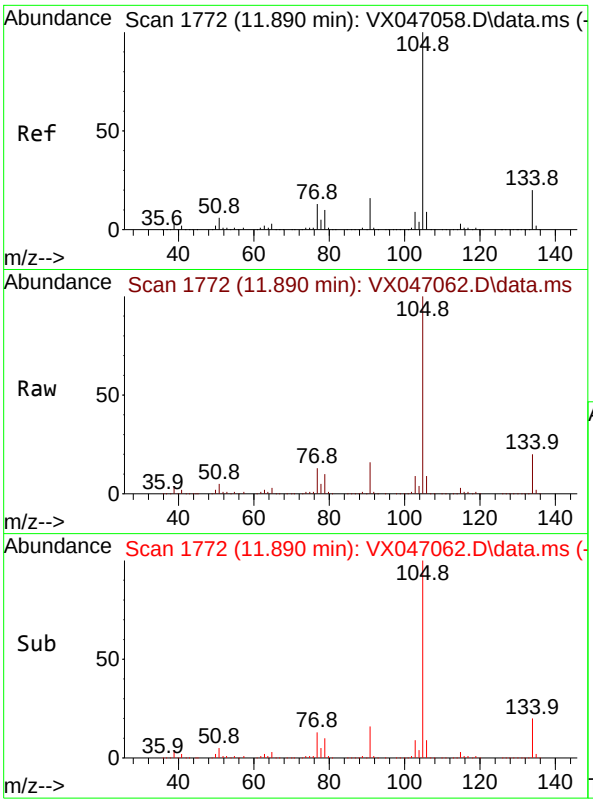


#84
1,2,4-Trimethylbenzene
Concen: 46.741 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:105 Resp: 744757

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.0	66.0

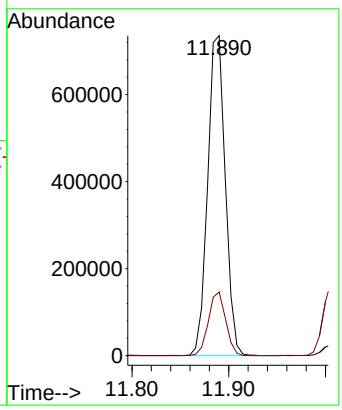




#85
sec-Butylbenzene
Concen: 46.632 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:105 Resp: 93419

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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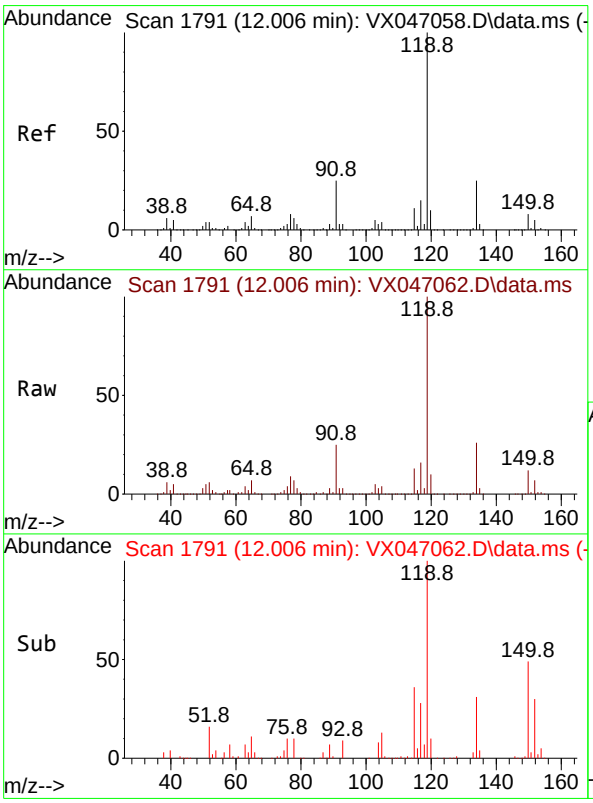
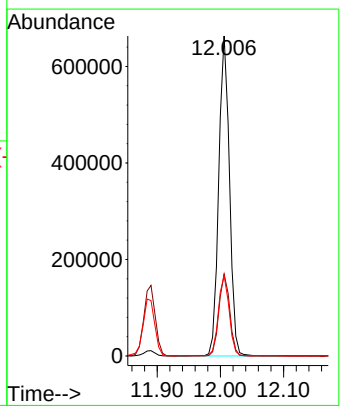
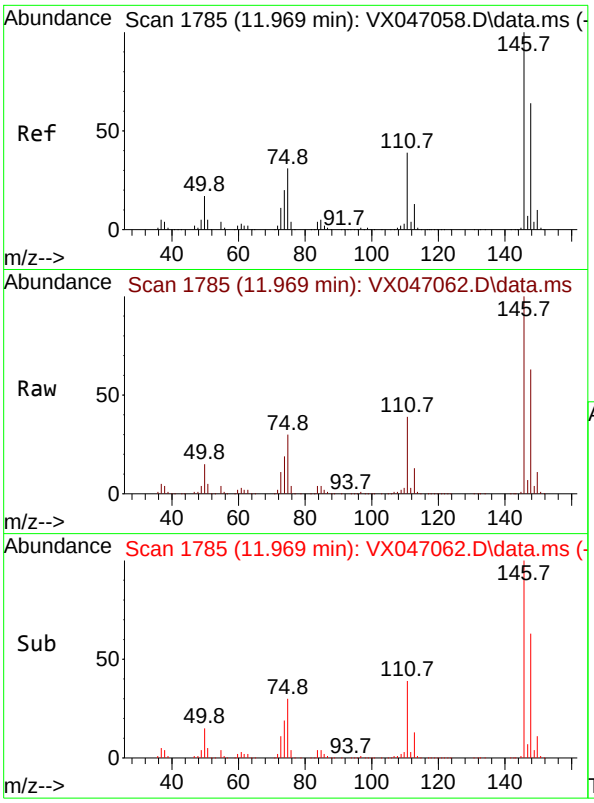


#86
p-Isopropyltoluene
Concen: 46.560 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:119 Resp: 773508

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.8	38.4
91	25.2	12.4	37.4

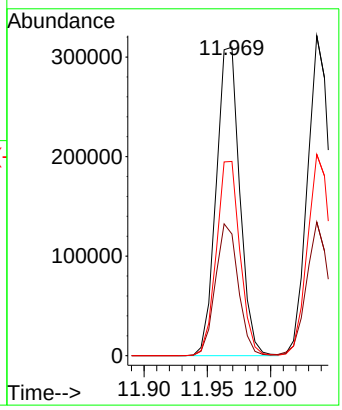




#87
1,3-Dichlorobenzene
Concen: 45.450 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:146 Resp: 40052

Ion	Ratio	Lower	Upper
146	100		
111	41.7	21.0	63.0
148	63.2	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

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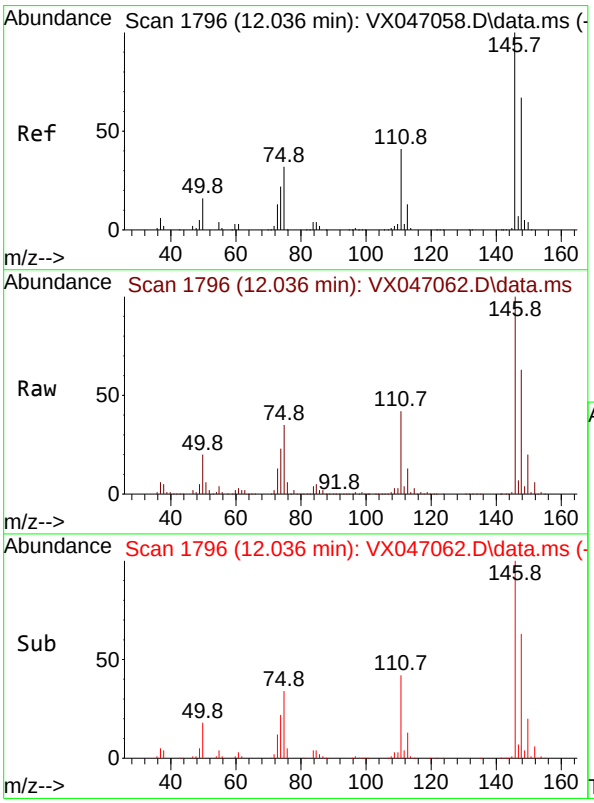
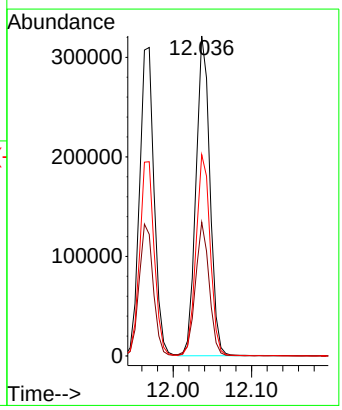
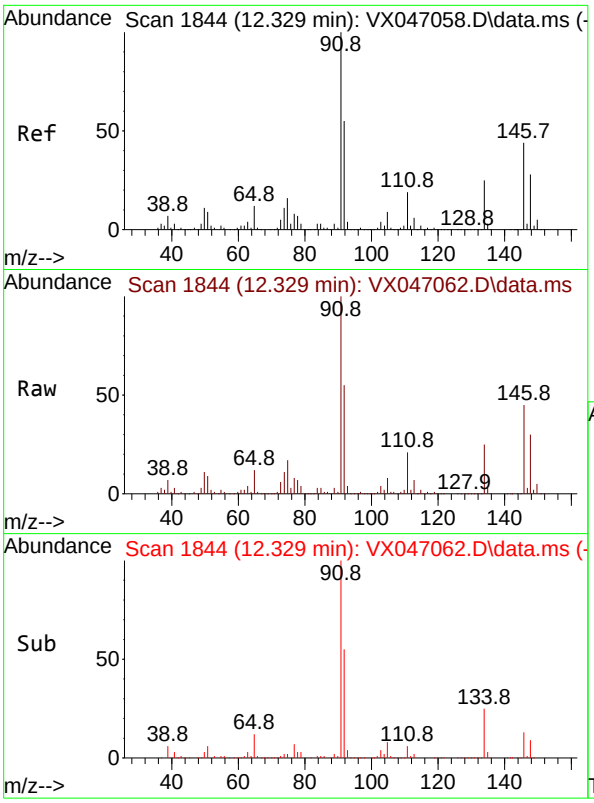


#88
1,4-Dichlorobenzene
Concen: 44.634 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:146 Resp: 398497

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.6	61.9
148	63.9	33.0	98.9

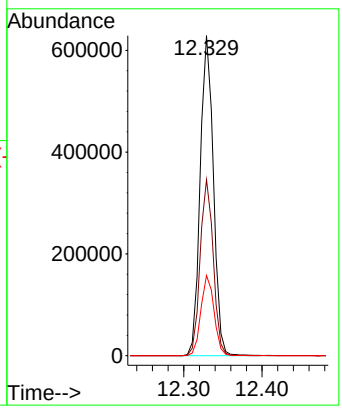




#89
n-Butylbenzene
Concen: 47.201 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 91 Resp: 73538

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.5	82.5
134	25.0	12.8	38.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations
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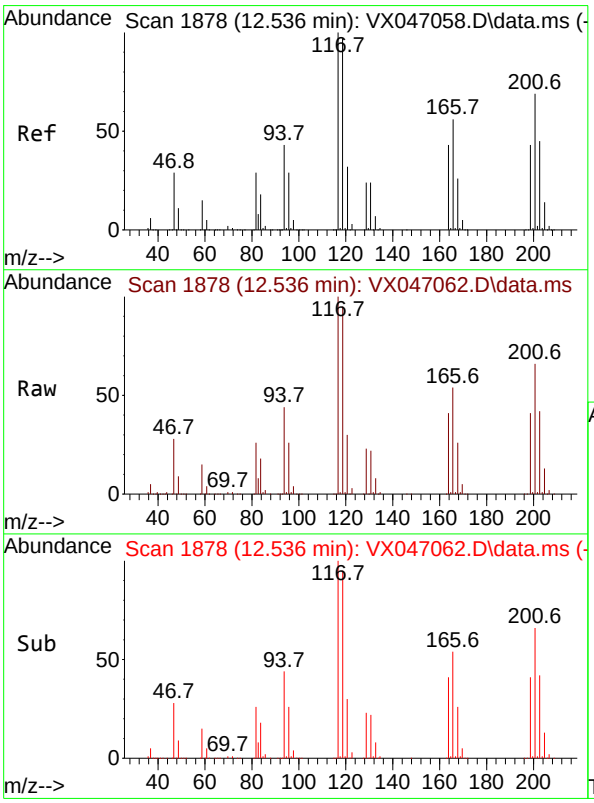
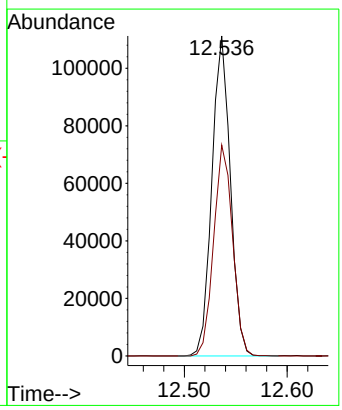
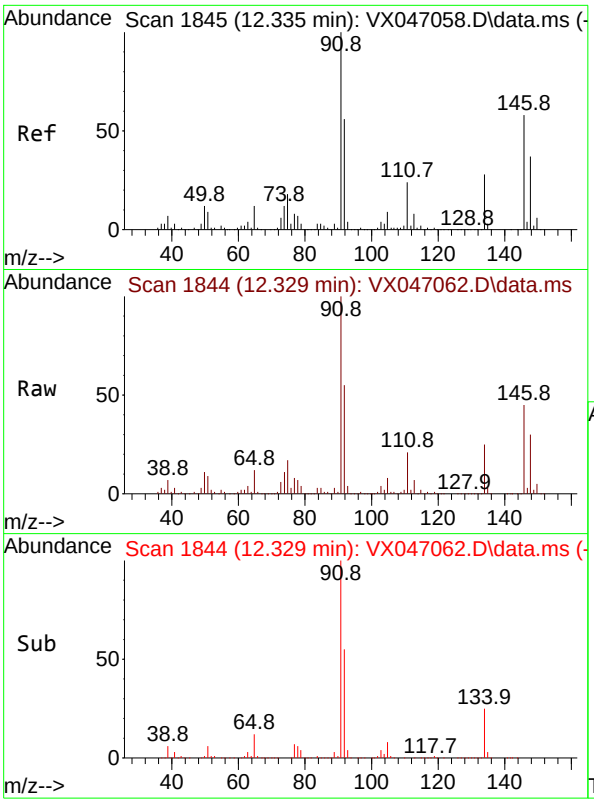


#90
Hexachloroethane
Concen: 46.667 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:117 Resp: 138697

Ion	Ratio	Lower	Upper
117	100		
201	67.6	34.8	104.5

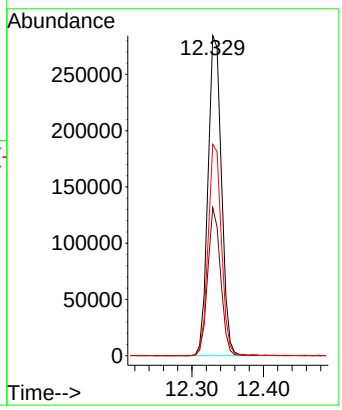




#91
1,2-Dichlorobenzene
Concen: 44.320 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:146 Resp: 37328

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.6	64.6
148	64.9	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations APPROVED

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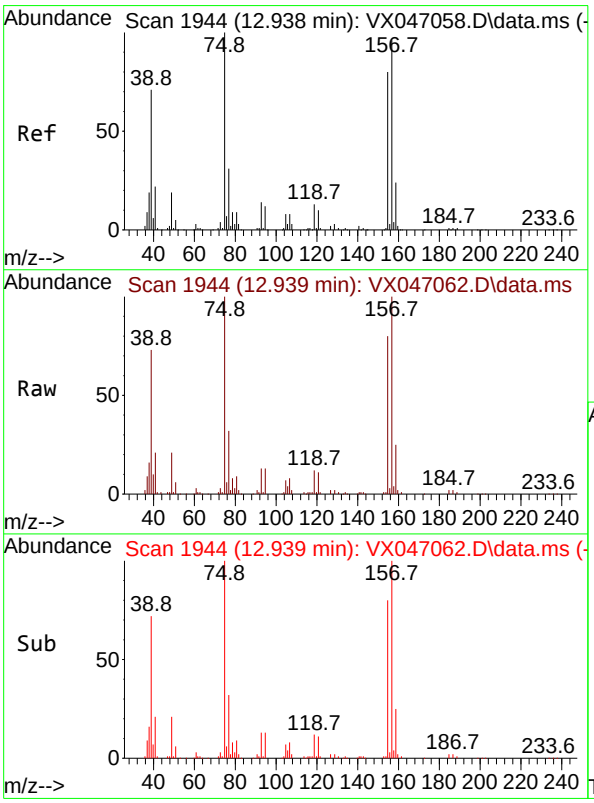
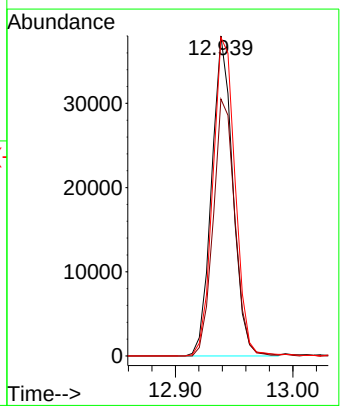
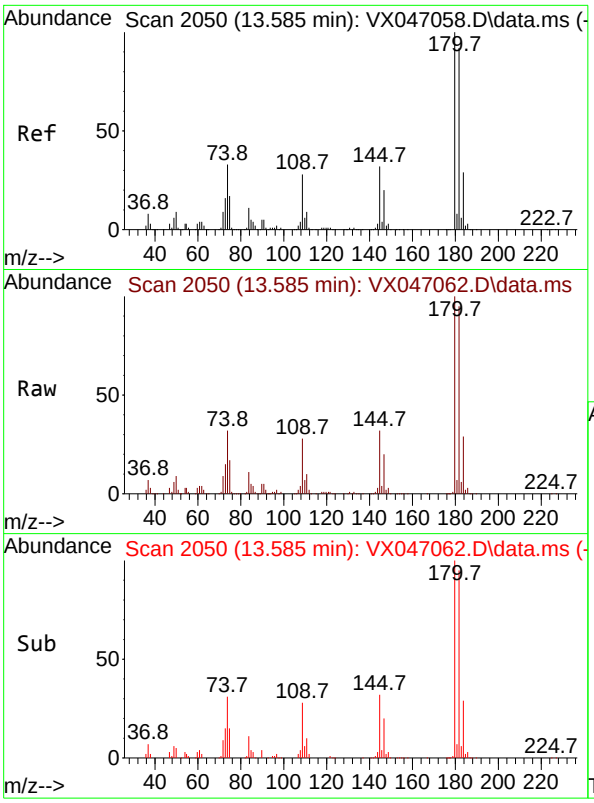


#92
1,2-Dibromo-3-Chloropropane
Concen: 44.904 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 75 Resp: 47608

Ion	Ratio	Lower	Upper
75	100		
155	82.0	41.3	124.1
157	105.2	52.8	158.3

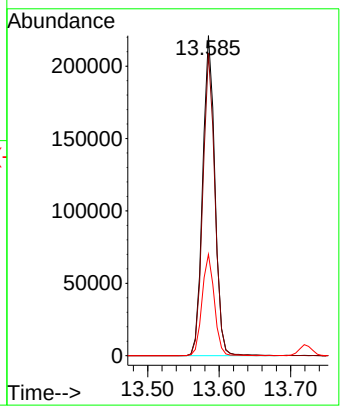




#93
1,2,4-Trichlorobenzene
Concen: 46.990 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:180 Resp: 26148

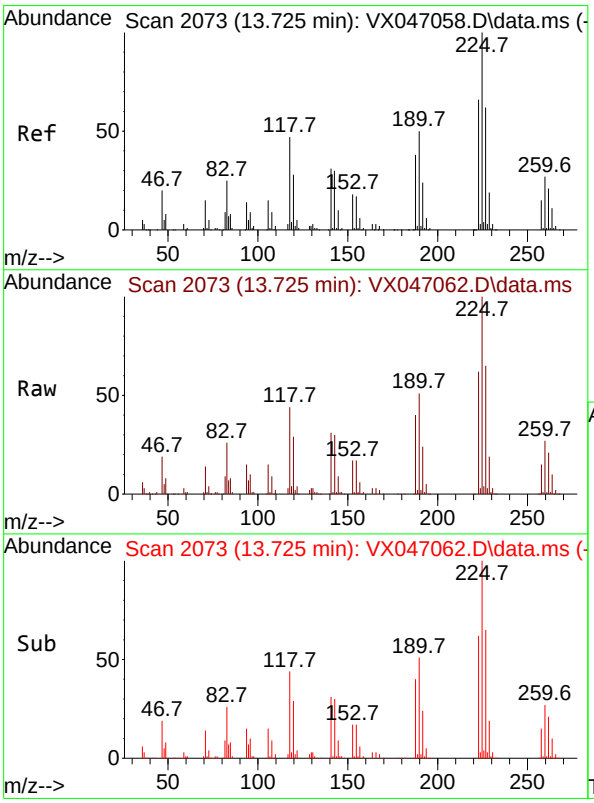
Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.3	141.8
145	31.9	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations APPROVED

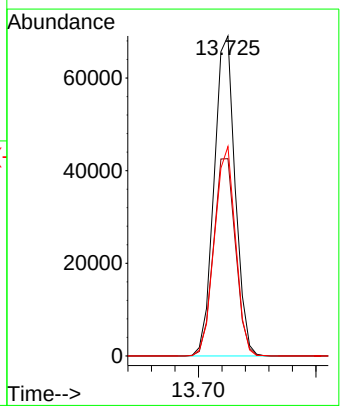
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

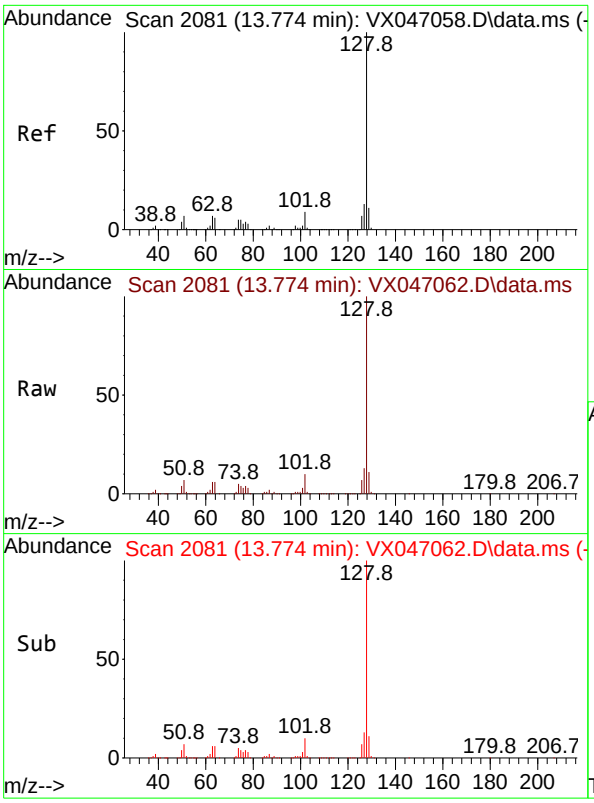


#94
Hexachlorobutadiene
Concen: 45.502 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:225 Resp: 86113

Ion	Ratio	Lower	Upper
225	100		
223	64.6	31.6	95.0
227	65.3	32.9	98.6

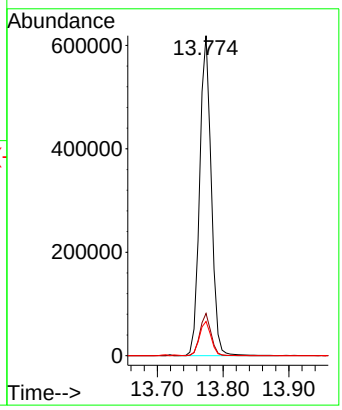




#95
Naphthalene
Concen: 46.304 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:128 Resp: 75536

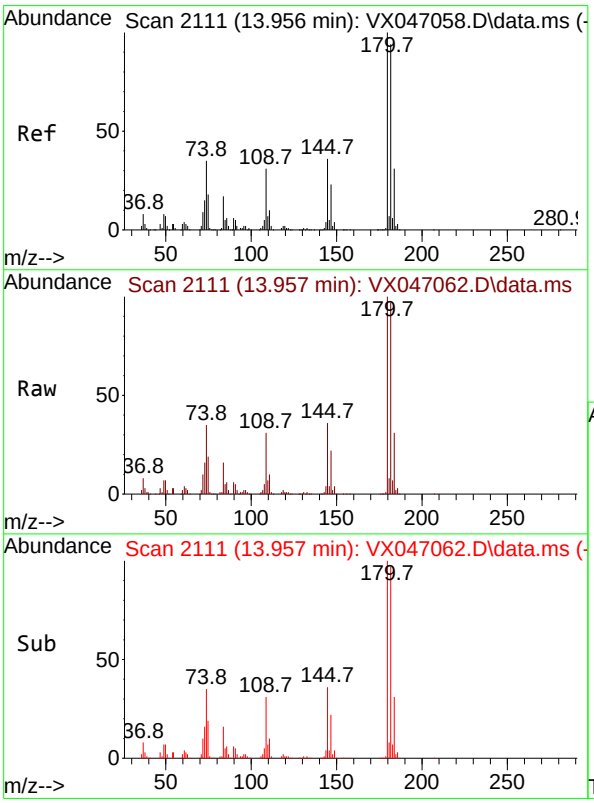
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	10.7	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Manual Integrations
APPROVED

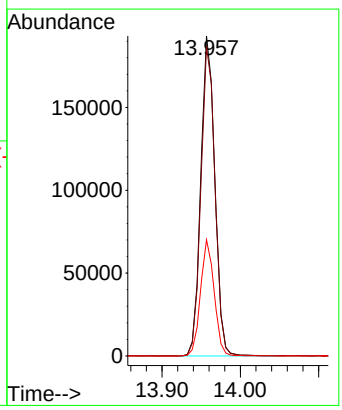
Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025



#96
1,2,3-Trichlorobenzene
Concen: 44.980 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:180 Resp: 241137

Ion	Ratio	Lower	Upper
180	100		
182	96.6	46.9	140.6
145	35.3	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	114	-0.01
2	T	Dichlorodifluoromethane	50.000	51.252	-2.5	101	0.00
3	P	Chloromethane	50.000	47.383	5.2	102	0.00
4	C	Vinyl Chloride	50.000	48.838	2.3#	101	0.00
5	T	Bromomethane	50.000	56.435	-12.9	110	0.00
6	T	Chloroethane	50.000	44.676	10.6	101	0.00
7	T	Trichlorofluoromethane	50.000	47.552	4.9	99	0.00
8	T	Diethyl Ether	50.000	46.477	7.0	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.104	5.8	101	0.00
10	T	Methyl Iodide	50.000	45.047	9.9	91	0.00
11	T	Tert butyl alcohol	250.000	207.194	17.1	95	0.00
12	CM	1,1-Dichloroethene	50.000	46.555	6.9#	99	0.00
13	T	Acrolein	250.000	208.477	16.6	92	0.00
14	T	Allyl chloride	50.000	46.743	6.5	98	0.00
15	T	Acrylonitrile	250.000	230.845	7.7	95	0.00
16	T	Acetone	250.000	230.823	7.7	105	0.00
17	T	Carbon Disulfide	50.000	45.742	8.5	98	0.00
18	T	Methyl Acetate	50.000	44.045	11.9	97	0.00
19	T	Methyl tert-butyl Ether	50.000	45.291	9.4	96	0.00
20	T	Methylene Chloride	50.000	45.041	9.9	98	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.188	7.6	98	0.00
22	T	Diisopropyl ether	50.000	46.119	7.8	97	0.00
23	T	Vinyl Acetate	250.000	233.940	6.4	97	0.00
24	P	1,1-Dichloroethane	50.000	45.165	9.7	96	0.00
25	T	2-Butanone	250.000	218.892	12.4	93	0.00
26	T	2,2-Dichloropropane	50.000	46.290	7.4	102	0.00
27	T	cis-1,2-Dichloroethene	50.000	44.906	10.2	97	0.00
28	T	Bromochloromethane	50.000	47.168	5.7	99	0.00
29	T	Tetrahydrofuran	250.000	217.460	13.0	91	-0.01
30	C	Chloroform	50.000	43.731	12.5#	96	-0.01
31	T	Cyclohexane	50.000	43.618	12.8	96	0.00
32	T	1,1,1-Trichloroethane	50.000	44.331	11.3	97	-0.01
33	S	1,2-Dichloroethane-d4	50.000	40.022	20.0	99	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	115	0.00
35	S	Dibromofluoromethane	50.000	42.247	15.5	102	-0.01
36	T	1,1-Dichloropropene	50.000	43.463	13.1	96	0.00
37	T	Ethyl Acetate	50.000	42.381	15.2	93	0.00
38	T	Carbon Tetrachloride	50.000	44.259	11.5	96	-0.01
39	T	Methylcyclohexane	50.000	44.136	11.7	96	0.00
40	TM	Benzene	50.000	44.304	11.4	94	0.00
41	T	Methacrylonitrile	50.000	45.816	8.4	92	-0.01
42	TM	1,2-Dichloroethane	50.000	44.378	11.2	95	-0.01
43	T	Isopropyl Acetate	50.000	45.564	8.9	93	-0.01
44	TM	Trichloroethene	50.000	43.658	12.7	94	0.00
45	C	1,2-Dichloropropane	50.000	44.093	11.8#	95	0.00
46	T	Dibromomethane	50.000	45.121	9.8	95	0.00
47	T	Bromodichloromethane	50.000	44.463	11.1	94	0.00
48	T	Methyl methacrylate	50.000	42.505	15.0	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	916.760	8.3	95	0.00
50	S	Toluene-d8	50.000	40.102	19.8	100	0.00
51	T	4-Methyl-2-Pentanone	250.000	217.774	12.9	91	0.00
52	CM	Toluene	50.000	44.778	10.4#	95	0.00
53	T	t-1,3-Dichloropropene	50.000	45.444	9.1	95	0.00
54	T	cis-1,3-Dichloropropene	50.000	46.140	7.7	96	0.00
55	T	1,1,2-Trichloroethane	50.000	43.270	13.5	93	0.00
56	T	Ethyl methacrylate	50.000	46.334	7.3	93	0.00
57	T	1,3-Dichloropropane	50.000	43.350	13.3	93	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	225.188	9.9	93	0.00
59	T	2-Hexanone	250.000	228.755	8.5	91	0.00
60	T	Dibromochloromethane	50.000	44.239	11.5	95	0.00
61	T	1,2-Dibromoethane	50.000	43.202	13.6	92	0.00
62	S	4-Bromofluorobenzene	50.000	40.779	18.4	99	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	111	0.00
64	T	Tetrachloroethene	50.000	44.131	11.7	94	0.00
65	PM	Chlorobenzene	50.000	44.318	11.4	94	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	44.529	10.9	93	0.00
67	C	Ethyl Benzene	50.000	44.977	10.0#	93	0.00
68	T	m/p-Xylenes	100.000	89.564	10.4	93	0.00
69	T	o-Xylene	50.000	45.328	9.3	94	0.00
70	T	Styrene	50.000	45.618	8.8	93	0.00
71	P	Bromoform	50.000	44.106	11.8	90	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	110	0.00
73	T	Isopropylbenzene	50.000	46.708	6.6	94	0.00
74	T	N-amyl acetate	50.000	46.238	7.5	90	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	45.037	9.9	92	0.00
76	T	1,2,3-Trichloropropane	50.000	46.113	7.8	94	0.00
77	T	Bromobenzene	50.000	46.441	7.1	95	0.00
78	T	n-propylbenzene	50.000	46.812	6.4	94	0.00
79	T	2-Chlorotoluene	50.000	45.702	8.6	93	0.00
80	T	1,3,5-Trimethylbenzene	50.000	46.187	7.6	94	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.380	9.2	91	0.00
82	T	4-Chlorotoluene	50.000	46.476	7.0	94	0.00
83	T	tert-Butylbenzene	50.000	46.942	6.1	94	0.00
84	T	1,2,4-Trimethylbenzene	50.000	46.741	6.5	93	0.00
85	T	sec-Butylbenzene	50.000	46.632	6.7	95	0.00
86	T	p-Isopropyltoluene	50.000	46.560	6.9	93	0.00
87	T	1,3-Dichlorobenzene	50.000	45.450	9.1	94	0.00
88	T	1,4-Dichlorobenzene	50.000	44.634	10.7	94	0.00
89	T	n-Butylbenzene	50.000	47.201	5.6	95	0.00
90	T	Hexachloroethane	50.000	46.667	6.7	95	0.00
91	T	1,2-Dichlorobenzene	50.000	44.320	11.4	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	44.904	10.2	89	0.00
93	T	1,2,4-Trichlorobenzene	50.000	46.990	6.0	95	0.00
94	T	Hexachlorobutadiene	50.000	45.502	9.0	95	0.00
95	T	Naphthalene	50.000	46.304	7.4	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	44.980	10.0	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	114	-0.01
2	T	Dichlorodifluoromethane	0.664	0.681	-2.6	101	0.00
3	P	Chloromethane	0.657	0.623	5.2	102	0.00
4	C	Vinyl Chloride	0.706	0.690	2.3#	101	0.00
5	T	Bromomethane	0.384	0.433	-12.8	110	0.00
6	T	Chloroethane	0.464	0.414	10.8	101	0.00
7	T	Trichlorofluoromethane	1.053	1.001	4.9	99	0.00
8	T	Diethyl Ether	0.371	0.345	7.0	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.634	0.598	5.7	101	0.00
10	T	Methyl Iodide	0.647	0.583	9.9	91	0.00
11	T	Tert butyl alcohol	0.080	0.061	23.8	95	0.00
12	CM	1,1-Dichloroethene	0.628	0.585	6.8#	99	0.00
13	T	Acrolein	0.134	0.112	16.4	92	0.00
14	T	Allyl chloride	1.136	1.062	6.5	98	0.00
15	T	Acrylonitrile	0.297	0.274	7.7	95	0.00
16	T	Acetone	0.250	0.230	8.0	105	0.00
17	T	Carbon Disulfide	1.818	1.663	8.5	98	0.00
18	T	Methyl Acetate	0.663	0.584	11.9	97	0.00
19	T	Methyl tert-butyl Ether	1.912	1.732	9.4	96	0.00
20	T	Methylene Chloride	0.686	0.618	9.9	98	0.00
21	T	trans-1,2-Dichloroethene	0.643	0.594	7.6	98	0.00
22	T	Diisopropyl ether	2.184	2.014	7.8	97	0.00
23	T	Vinyl Acetate	1.752	1.639	6.4	97	0.00
24	P	1,1-Dichloroethane	1.214	1.097	9.6	96	0.00
25	T	2-Butanone	0.363	0.318	12.4	93	0.00
26	T	2,2-Dichloropropane	0.940	0.870	7.4	102	0.00
27	T	cis-1,2-Dichloroethene	0.761	0.684	10.1	97	0.00
28	T	Bromochloromethane	0.559	0.527	5.7	99	0.00
29	T	Tetrahydrofuran	0.234	0.204	12.8	91	-0.01
30	C	Chloroform	1.236	1.081	12.5#	96	-0.01
31	T	Cyclohexane	1.164	1.016	12.7	96	0.00
32	T	1,1,1-Trichloroethane	1.074	0.952	11.4	97	-0.01
33	S	1,2-Dichloroethane-d4	0.623	0.499	19.9	99	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	115	0.00
35	S	Dibromofluoromethane	0.309	0.261	15.5	102	-0.01
36	T	1,1-Dichloropropene	0.526	0.457	13.1	96	0.00
37	T	Ethyl Acetate	0.485	0.411	15.3	93	0.00
38	T	Carbon Tetrachloride	0.562	0.497	11.6	96	-0.01
39	T	Methylcyclohexane	0.657	0.580	11.7	96	0.00
40	TM	Benzene	1.523	1.349	11.4	94	0.00
41	T	Methacrylonitrile	0.254	0.232	8.7	92	-0.01
42	TM	1,2-Dichloroethane	0.536	0.476	11.2	95	-0.01
43	T	Isopropyl Acetate	0.756	0.689	8.9	93	-0.01
44	TM	Trichloroethene	0.391	0.341	12.8	94	0.00
45	C	1,2-Dichloropropane	0.381	0.336	11.8#	95	0.00
46	T	Dibromomethane	0.267	0.241	9.7	95	0.00
47	T	Bromodichloromethane	0.569	0.506	11.1	94	0.00
48	T	Methyl methacrylate	0.412	0.350	15.0	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.005	0.004	20.0	95	0.00
50	S	Toluene-d8	1.000	0.802	19.8	100	0.00
51	T	4-Methyl-2-Pentanone	0.449	0.391	12.9	91	0.00
52	CM	Toluene	0.936	0.839	10.4#	95	0.00
53	T	t-1,3-Dichloropropene	0.538	0.489	9.1	95	0.00
54	T	cis-1,3-Dichloropropene	0.588	0.543	7.7	96	0.00
55	T	1,1,2-Trichloroethane	0.351	0.304	13.4	93	0.00
56	T	Ethyl methacrylate	0.520	0.482	7.3	93	0.00
57	T	1,3-Dichloropropane	0.610	0.529	13.3	93	0.00
58	T	2-Chloroethyl Vinyl ether	0.289	0.261	9.7	93	0.00
59	T	2-Hexanone	0.297	0.272	8.4	91	0.00
60	T	Dibromochloromethane	0.412	0.364	11.7	95	0.00
61	T	1,2-Dibromoethane	0.367	0.317	13.6	92	0.00
62	S	4-Bromofluorobenzene	0.431	0.351	18.6	99	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	111	0.00
64	T	Tetrachloroethene	0.360	0.318	11.7	94	0.00
65	PM	Chlorobenzene	1.171	1.038	11.4	94	0.00
66	T	1,1,1,2-Tetrachloroethane	0.394	0.351	10.9	93	0.00
67	C	Ethyl Benzene	2.048	1.842	10.1#	93	0.00
68	T	m/p-Xylenes	0.766	0.686	10.4	93	0.00
69	T	o-Xylene	0.729	0.661	9.3	94	0.00
70	T	Styrene	1.250	1.141	8.7	93	0.00
71	P	Bromoform	0.300	0.264	12.0	90	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
73	T	Isopropylbenzene	3.945	3.685	6.6	94	0.00
74	T	N-amyl acetate	1.592	1.472	7.5	90	0.00
75	P	1,1,2,2-Tetrachloroethane	1.127	1.015	9.9	92	0.00
76	T	1,2,3-Trichloropropane	0.925	0.854	7.7	94	0.00
77	T	Bromobenzene	0.946	0.879	7.1	95	0.00
78	T	n-propylbenzene	4.714	4.413	6.4	94	0.00
79	T	2-Chlorotoluene	2.818	2.576	8.6	93	0.00
80	T	1,3,5-Trimethylbenzene	3.259	3.010	7.6	94	0.00
81	T	trans-1,4-Dichloro-2-butene	0.359	0.326	9.2	91	0.00
82	T	4-Chlorotoluene	3.289	3.057	7.1	94	0.00
83	T	tert-Butylbenzene	3.271	3.071	6.1	94	0.00
84	T	1,2,4-Trimethylbenzene	3.251	3.039	6.5	93	0.00
85	T	sec-Butylbenzene	4.087	3.812	6.7	95	0.00
86	T	p-Isopropyltoluene	3.389	3.156	6.9	93	0.00
87	T	1,3-Dichlorobenzene	1.798	1.634	9.1	94	0.00
88	T	1,4-Dichlorobenzene	1.821	1.626	10.7	94	0.00
89	T	n-Butylbenzene	3.178	3.000	5.6	95	0.00
90	T	Hexachloroethane	0.606	0.566	6.6	95	0.00
91	T	1,2-Dichlorobenzene	1.718	1.523	11.4	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.216	0.194	10.2	89	0.00
93	T	1,2,4-Trichlorobenzene	1.135	1.067	6.0	95	0.00
94	T	Hexachlorobutadiene	0.386	0.351	9.1	95	0.00
95	T	Naphthalene	3.328	3.082	7.4	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.094	0.984	10.1	92	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 ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2815

Instrument ID: MSVOA_X Calibration Date(s): 08/15/2025 08/15/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:40 12:30

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

LAB FILE ID: RRF005 = VX047349.D RRF020 = VX047350.D RRF050 = VX047351.D
RRF100 = VX047352.D RRF150 = VX047353.D RRF001 = VX047356.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.558	0.638	0.731	0.671	0.680	0.546	0.637	11.4
Chloromethane	0.539	0.568	0.624	0.567	0.594	0.549	0.573	5.4
Vinyl Chloride	0.651	0.751	0.800	0.729	0.757	0.630	0.720	9.2
Bromomethane	0.251	0.296	0.336	0.309	0.261		0.291	11.9
Chloroethane	0.392	0.440	0.463	0.410	0.422	0.515	0.440	10
Trichlorofluoromethane	1.012	1.121	1.188	1.060	1.069	0.938	1.065	8.1
1,1,2-Trichlorotrifluoroethane	0.589	0.664	0.697	0.624	0.637	0.494	0.618	11.4
1,1-Dichloroethene	0.575	0.664	0.697	0.635	0.651	0.555	0.630	8.6
Acetone	0.259	0.310	0.280	0.240	0.240	0.249	0.263	10.5
Carbon Disulfide	1.747	1.916	1.993	1.819	1.854	2.069	1.900	6.2
Methyl tert-butyl Ether	1.768	2.019	2.175	1.962	2.014	1.554	1.915	11.5
Methyl Acetate	0.620	0.661	0.769	0.689	0.728	0.621	0.682	8.7
Methylene Chloride	0.645	0.732	0.757	0.669	0.684	0.691	0.697	5.9
trans-1,2-Dichloroethene	0.638	0.705	0.725	0.655	0.664	0.621	0.668	6
1,1-Dichloroethane	1.180	1.294	1.356	1.210	1.238	1.052	1.222	8.5
Cyclohexane	1.024	1.202	1.210	1.082	1.113		1.126	7
2-Butanone	0.328	0.378	0.389	0.342	0.343	0.287	0.344	10.6
Carbon Tetrachloride	0.536	0.596	0.607	0.549	0.554	0.515	0.560	6.3
cis-1,2-Dichloroethene	0.758	0.826	0.846	0.769	0.779	0.692	0.778	7
Bromochloromethane	0.543	0.402	0.540	0.560	0.525	0.481	0.508	11.6
Chloroform	1.236	1.328	1.368	1.214	1.243	1.091	1.247	7.8
1,1,1-Trichloroethane	1.043	1.151	1.195	1.081	1.106	0.863	1.073	10.8
Methylcyclohexane	0.589	0.673	0.695	0.640	0.642	0.595	0.639	6.5
Benzene	1.502	1.665	1.701	1.516	1.504	1.312	1.533	9.1
1,2-Dichloroethane	0.521	0.594	0.600	0.532	0.528	0.484	0.543	8.3
Trichloroethene	0.383	0.423	0.432	0.390	0.391	0.336	0.393	8.6
1,2-Dichloropropane	0.349	0.415	0.421	0.381	0.382	0.357	0.384	7.6
Bromodichloromethane	0.548	0.621	0.635	0.578	0.573	0.513	0.578	7.8
4-Methyl-2-Pentanone	0.408	0.479	0.509	0.451	0.444	0.346	0.440	13
Toluene	0.920	1.043	1.057	0.936	0.927	0.802	0.947	9.9

* 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: FIRS02

Lab Code: ACE SDG No.: Q2815

Instrument ID: MSVOA_X Calibration Date(s): 08/15/2025 08/15/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:40 12:30

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

LAB FILE ID: RRF005 = VX047349.D RRF020 = VX047350.D RRF050 = VX047351.D
RRF100 = VX047352.D RRF150 = VX047353.D RRF001 = VX047356.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF001	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.444	0.537	0.584	0.541	0.550	0.371	0.505	15.9
cis-1,3-Dichloropropene	0.531	0.608	0.642	0.592	0.602	0.451	0.571	12
1,1,2-Trichloroethane	0.358	0.393	0.396	0.352	0.347	0.313	0.360	8.6
2-Hexanone	0.284	0.338	0.347	0.310	0.306	0.239	0.304	12.9
Dibromochloromethane	0.412	0.461	0.464	0.426	0.420	0.382	0.428	7.3
1,2-Dibromoethane	0.358	0.397	0.409	0.365	0.361	0.336	0.371	7.2
Tetrachloroethene	0.351	0.384	0.398	0.360	0.360	0.316	0.362	7.8
Chlorobenzene	1.163	1.268	1.286	1.163	1.175	1.073	1.188	6.6
Ethyl Benzene	1.941	2.216	2.277	2.062	2.056	1.718	2.045	9.8
m/p-Xylenes	0.722	0.831	0.858	0.765	0.759	0.642	0.763	10.2
o-Xylene	0.679	0.793	0.813	0.735	0.732	0.651	0.734	8.6
Styrene	1.186	1.397	1.411	1.271	1.266	0.909	1.240	14.8
Bromoform	0.294	0.322	0.335	0.306	0.313	0.241	0.302	10.9
Isopropylbenzene	3.547	4.192	4.399	4.048	4.080	3.211	3.913	11.4
1,1,2,2-Tetrachloroethane	1.077	1.208	1.269	1.142	1.152	1.044	1.149	7.2
1,3-Dichlorobenzene	1.719	1.907	1.983	1.811	1.823	1.710	1.825	5.8
1,4-Dichlorobenzene	1.788	1.952	1.986	1.788	1.814	1.936	1.877	4.8
1,2-Dichlorobenzene	1.617	1.851	1.862	1.705	1.729	1.631	1.733	6.1
1,2-Dibromo-3-Chloropropane	0.182	0.225	0.247	0.238	0.249	0.191	0.222	13
1,2,4-Trichlorobenzene	1.030	1.168	1.234	1.191	1.204	1.144	1.161	6.2
1,2,3-Trichlorobenzene	0.919	1.109	1.174	1.132	1.160	1.075	1.095	8.5
1,2-Dichloroethane-d4	0.709	0.581	0.700	0.747	0.762		0.700	10.2
Dibromofluoromethane	0.310	0.278	0.331	0.354	0.349		0.325	9.6
Toluene-d8	1.157	0.994	1.171	1.246	1.232		1.160	8.7
4-Bromofluorobenzene	0.441	0.371	0.428	0.452	0.448		0.428	7.8

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

Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X081525W.M
Title : SW846 8260
Last Update : Mon Aug 18 04:18:28 2025
Response Via : Initial Calibration

Calibration Files
1 =VX047356.D 5 =VX047349.D 20 =VX047350.D 50 =VX047351.D 100 =VX047352.D 150 =VX047353.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.546	0.558	0.638	0.731	0.671	0.680	0.637	11.38
3)	P	Chloromethane	0.549	0.539	0.568	0.624	0.567	0.594	0.573	5.41
4)	C	Vinyl Chloride	0.630	0.651	0.751	0.800	0.729	0.757	0.720	9.16#
5)	T	Bromomethane		0.251	0.296	0.336	0.309	0.261	0.291	11.94
6)	T	Chloroethane	0.515	0.392	0.440	0.463	0.410	0.422	0.440	10.01
7)	T	Trichlorofluor...	0.938	1.012	1.121	1.188	1.060	1.069	1.065	8.10
8)	T	Diethyl Ether	0.340	0.351	0.387	0.415	0.370	0.385	0.375	7.21
9)	T	1,1,2-Trichlor...	0.494	0.589	0.664	0.697	0.624	0.637	0.618	11.41
10)	T	Methyl Iodide		0.820	0.912	1.163	1.181	1.215	1.058	16.96
11)	T	Tert butyl alc...		0.052	0.059	0.068	0.062	0.063	0.061	9.76
12)	CM	1,1-Dichloroet...	0.555	0.575	0.664	0.697	0.635	0.651	0.630	8.61#
13)	T	Acrolein		0.130	0.122	0.132	0.127	0.131	0.129	3.22
14)	T	Allyl chloride	0.951	1.023	1.143	1.211	1.109	1.124	1.093	8.47
15)	T	Acrylonitrile	0.248	0.260	0.314	0.340	0.299	0.303	0.294	11.64
16)	T	Acetone	0.249	0.259	0.310	0.280	0.240	0.240	0.263	10.48
17)	T	Carbon Disulfide	2.069	1.747	1.916	1.993	1.819	1.854	1.900	6.21
18)	T	Methyl Acetate	0.621	0.620	0.661	0.769	0.689	0.728	0.682	8.75
19)	T	Methyl tert-bu...	1.554	1.768	2.019	2.175	1.962	2.014	1.915	11.49
20)	T	Methylene Chlo...	0.691	0.645	0.732	0.757	0.669	0.684	0.697	5.94
21)	T	trans-1,2-Dich...	0.621	0.638	0.705	0.725	0.655	0.664	0.668	5.98
22)	T	Diisopropyl ether	1.735	2.035	2.372	2.460	2.180	2.186	2.161	11.92
23)	T	Vinyl Acetate	1.412	1.596	1.919	2.040	1.821	1.841	1.772	12.91
24)	P	1,1-Dichloroet...	1.052	1.180	1.294	1.356	1.210	1.238	1.222	8.53
25)	T	2-Butanone	0.287	0.328	0.378	0.389	0.342	0.343	0.344	10.56
26)	T	2,2-Dichloropr...	0.776	0.864	0.976	1.017	0.940	0.960	0.922	9.49
27)	T	cis-1,2-Dichlo...	0.692	0.758	0.826	0.846	0.769	0.779	0.778	6.99
28)	T	Bromochloromet...	0.481	0.543	0.402	0.540	0.560	0.525	0.508	11.55
29)	T	Tetrahydrofuran	0.219	0.206	0.227	0.246	0.219	0.219	0.223	5.97
30)	C	Chloroform	1.091	1.236	1.328	1.368	1.214	1.243	1.247	7.75#
31)	T	Cyclohexane		1.024	1.202	1.210	1.082	1.112	1.126	7.05
32)	T	1,1,1-Trichlor...	0.863	1.043	1.151	1.195	1.081	1.106	1.073	10.80
33)	S	1,2-Dichloroet...		0.709	0.581	0.700	0.747	0.762	0.700	10.19
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.310	0.278	0.331	0.354	0.349	0.325	9.56
36)	T	1,1-Dichloropr...	0.474	0.475	0.551	0.562	0.509	0.502	0.512	7.25
37)	T	Ethyl Acetate	0.492	0.491	0.568	0.590	0.528	0.523	0.532	7.57
38)	T	Carbon Tetrach...	0.515	0.536	0.596	0.607	0.549	0.554	0.560	6.31
39)	T	Methylcyclohexane	0.595	0.589	0.673	0.695	0.640	0.642	0.639	6.55
40)	TM	Benzene	1.312	1.502	1.665	1.701	1.516	1.504	1.533	9.07
41)	T	Methacrylonitrile	0.175	0.192	0.244	0.258	0.245	0.231	0.224	14.75
42)	TM	1,2-Dichloroet...	0.484	0.521	0.594	0.600	0.532	0.528	0.543	8.33
43)	T	Isopropyl Acetate	0.645	0.660	0.811	0.868	0.798	0.802	0.764	11.82
44)	TM	Trichloroethene	0.336	0.383	0.423	0.432	0.390	0.391	0.393	8.64
45)	C	1,2-Dichloropr...	0.357	0.349	0.415	0.421	0.381	0.382	0.384	7.60#
46)	T	Dibromomethane	0.248	0.272	0.302	0.302	0.273	0.276	0.279	7.34
47)	T	Bromodichlorom...	0.513	0.548	0.621	0.635	0.578	0.573	0.578	7.81
48)	T	Methyl methacr...	0.352	0.335	0.419	0.445	0.412	0.417	0.397	10.89
49)	T	1,4-Dioxane	0.003	0.004	0.004	0.004	0.004	0.004	0.004	14.33
50)	S	Toluene-d8		1.157	0.994	1.171	1.246	1.232	1.160	8.66
51)	T	4-Methyl-2-Pen...	0.346	0.408	0.479	0.509	0.451	0.444	0.440	12.98
52)	CM	Toluene	0.802	0.920	1.043	1.057	0.936	0.927	0.947	9.87#
53)	T	t-1,3-Dichloro...	0.371	0.444	0.537	0.584	0.541	0.550	0.505	15.92
54)	T	cis-1,3-Dichlo...	0.451	0.531	0.608	0.642	0.592	0.602	0.571	12.05
55)	T	1,1,2-Trichlor...	0.313	0.358	0.393	0.396	0.352	0.347	0.360	8.61
56)	T	Ethyl methacry...	0.405	0.466	0.562	0.617	0.563	0.569	0.530	14.84

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X081525W.M

57)	T	1,3-Dichloropr...	0.553	0.591	0.672	0.670	0.600	0.592	0.613	7.78
58)	T	2-Chloroethyl ...	0.103	0.191	0.184	0.274	0.256	0.259	0.211	30.82
59)	T	2-Hexanone	0.239	0.284	0.338	0.347	0.310	0.306	0.304	12.89
60)	T	Dibromochlorom...	0.382	0.412	0.461	0.464	0.426	0.420	0.428	7.31
61)	T	1,2-Dibromoethane	0.336	0.358	0.397	0.409	0.365	0.361	0.371	7.24
62)	S	4-Bromofluorob...		0.441	0.371	0.428	0.452	0.448	0.428	7.78
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.316	0.351	0.384	0.398	0.360	0.360	0.362	7.79
65)	PM	Chlorobenzene	1.073	1.163	1.268	1.286	1.163	1.175	1.188	6.58
66)	T	1,1,1,2-Tetrac...	0.345	0.389	0.423	0.441	0.403	0.409	0.402	8.27
67)	C	Ethyl Benzene	1.718	1.941	2.216	2.277	2.062	2.056	2.045	9.81#
68)	T	m/p-Xylenes	0.642	0.722	0.831	0.858	0.765	0.759	0.763	10.18
69)	T	o-Xylene	0.651	0.679	0.793	0.813	0.735	0.732	0.734	8.55
70)	T	Styrene	0.909	1.186	1.397	1.411	1.271	1.266	1.240	14.80
71)	P	Bromoform	0.241	0.294	0.322	0.335	0.306	0.313	0.302	10.89
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.211	3.547	4.192	4.399	4.048	4.080	3.913	11.36
74)	T	N-amyl acetate	1.047	1.230	1.539	1.729	1.658	1.712	1.486	19.05
75)	P	1,1,2,2-Tetrac...	1.044	1.077	1.208	1.269	1.142	1.152	1.149	7.19
76)	T	1,2,3-Trichlor...	0.818	0.888	0.941	1.014	0.919	0.921	0.917	6.98
77)	T	Bromobenzene	0.797	0.909	1.017	1.053	0.978	0.977	0.955	9.54
78)	T	n-propylbenzene	3.905	4.263	5.031	5.179	4.817	4.844	4.673	10.45
79)	T	2-Chlorotoluene	2.545	2.612	3.039	3.096	2.828	2.830	2.825	7.80
80)	T	1,3,5-Trimethy...	2.716	2.909	3.463	3.588	3.311	3.329	3.219	10.44
81)	T	trans-1,4-Dich...		0.089	0.141	0.199	0.215	0.246	0.178	35.26
82)	T	4-Chlorotoluene	3.043	3.128	3.542	3.630	3.299	3.338	3.330	6.83
83)	T	tert-Butylbenzene	2.658	2.867	3.451	3.619	3.334	3.342	3.212	11.48
84)	T	1,2,4-Trimethy...	2.516	2.990	3.521	3.645	3.318	3.326	3.219	12.74
85)	T	sec-Butylbenzene	3.273	3.630	4.323	4.417	4.101	4.142	3.981	11.07
86)	T	p-Isopropyltol...	2.961	3.071	3.569	3.726	3.416	3.469	3.369	8.75
87)	T	1,3-Dichlorobe...	1.710	1.719	1.907	1.983	1.811	1.823	1.825	5.82
88)	T	1,4-Dichlorobe...	1.936	1.788	1.952	1.986	1.788	1.814	1.877	4.81
89)	T	n-Butylbenzene	2.816	2.796	3.309	3.444	3.208	3.227	3.133	8.52
90)	T	Hexachloroethane	0.529	0.505	0.584	0.653	0.618	0.657	0.591	10.74
91)	T	1,2-Dichlorobe...	1.631	1.617	1.851	1.862	1.705	1.729	1.733	6.06
92)	T	1,2-Dibromo-3-...	0.191	0.182	0.225	0.247	0.238	0.249	0.222	13.01
93)	T	1,2,4-Trichlor...	1.144	1.030	1.168	1.234	1.191	1.204	1.161	6.16
94)	T	Hexachlorobuta...	0.562	0.367	0.387	0.404	0.376	0.383	0.413	17.91
95)	T	Naphthalene	2.674	2.705	3.401	3.779	3.639	3.717	3.319	15.20
96)	T	1,2,3-Trichlor...	1.075	0.919	1.109	1.174	1.132	1.160	1.095	8.48

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047349.D
Acq On : 15 Aug 2025 09:40
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 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:52:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.562	168	281608	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.769	114	479446	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	434591	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	224159	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.971	65	19963	5.065	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	10.140%#			
35) Dibromofluoromethane	5.397	113	14862	4.776	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	9.560%#			
50) Toluene-d8	8.653	98	55469	4.987	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	9.980%#			
62) 4-Bromofluorobenzene	11.079	95	21138	5.150	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	10.300%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.185	85	15718	4.378	ug/l		97
3) Chloromethane	1.313	50	15170	4.697	ug/l		92
4) Vinyl Chloride	1.392	62	18322	4.520	ug/l		94
5) Bromomethane	1.624	94	7076	4.322	ug/l		94
6) Chloroethane	1.709	64	11042	4.452	ug/l		96
7) Trichlorofluoromethane	1.904	101	28485	4.751	ug/l		93
8) Diethyl Ether	2.148	74	9891	4.685	ug/l		92
9) 1,1,2-Trichlorotrifluo...	2.343	101	16582	4.768	ug/l		99
10) Methyl Iodide	2.471	142	23080	3.872	ug/l		97
11) Tert butyl alcohol	2.965	59	7340	21.408	ug/l	#	89
12) 1,1-Dichloroethene	2.337	96	16204	4.570	ug/l		92
13) Acrolein	2.252	56	18274	25.248	ug/l		97
14) Allyl chloride	2.678	41	28797	4.676	ug/l		100
15) Acrylonitrile	3.087	53	36613	22.099	ug/l		97
16) Acetone	2.392	43	36440	24.598	ug/l		94
17) Carbon Disulfide	2.532	76	49197	4.598	ug/l		99
18) Methyl Acetate	2.721	43	17456	4.547	ug/l		93
19) Methyl tert-butyl Ether	3.130	73	49799	4.617	ug/l		100
20) Methylene Chloride	2.806	84	18175	4.633	ug/l		97
21) trans-1,2-Dichloroethene	3.105	96	17974	4.776	ug/l		88
22) Diisopropyl ether	3.776	45	57311	4.708	ug/l		96
23) Vinyl Acetate	3.739	43	224747	22.525	ug/l		100
24) 1,1-Dichloroethane	3.623	63	33241	4.831	ug/l		99
25) 2-Butanone	4.581	43	46235	23.830	ug/l		97
26) 2,2-Dichloropropane	4.489	77	24325	4.684	ug/l		99
27) cis-1,2-Dichloroethene	4.501	96	21338	4.868	ug/l		96
28) Bromochloromethane	4.916	49	15283	5.338	ug/l		98
29) Tetrahydrofuran	5.038	42	28938m	23.076	ug/l		
30) Chloroform	5.105	83	34798	4.955	ug/l		97
31) Cyclohexane	5.483	56	28847	4.548	ug/l		91
32) 1,1,1-Trichloroethane	5.404	97	29367	4.859	ug/l		99
36) 1,1-Dichloropropene	5.702	75	22796	4.641	ug/l		96
37) Ethyl Acetate	4.739	43	23521	4.613	ug/l		99
38) Carbon Tetrachloride	5.690	117	25718	4.791	ug/l		96
39) Methylcyclohexane	7.385	83	28242	4.609	ug/l		98
40) Benzene	6.050	78	72021	4.899	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047349.D
Acq On : 15 Aug 2025 09:40
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 02:52:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.958	41	9185	4.271 ug/l	#	91
42) 1,2-Dichloroethane	6.099	62	24979	4.796 ug/l		99
43) Isopropyl Acetate	6.361	43	31621	4.316 ug/l		97
44) Trichloroethene	7.135	130	18386	4.884 ug/l		99
45) 1,2-Dichloropropane	7.434	63	16729	4.542 ug/l		95
46) Dibromomethane	7.592	93	13062	4.885 ug/l		97
47) Bromodichloromethane	7.824	83	26280	4.741 ug/l		95
48) Methyl methacrylate	7.702	41	16053	4.222 ug/l		99
49) 1,4-Dioxane	7.696	88	3959m	109.635 ug/l		
51) 4-Methyl-2-Pentanone	8.580	43	97891	23.221 ug/l		97
52) Toluene	8.720	92	44099	4.854 ug/l		98
53) t-1,3-Dichloropropene	8.982	75	21300	4.403 ug/l		94
54) cis-1,3-Dichloropropene	8.373	75	25475	4.652 ug/l		93
55) 1,1,2-Trichloroethane	9.153	97	17150	4.972 ug/l	#	83
56) Ethyl methacrylate	9.122	69	22362	4.397 ug/l		97
57) 1,3-Dichloropropane	9.311	76	28336	4.821 ug/l		98
58) 2-Chloroethyl Vinyl ether	8.245	63	45735	26.559 ug/l		98
59) 2-Hexanone	9.433	43	68164	23.375 ug/l		96
60) Dibromochloromethane	9.519	129	19760	4.820 ug/l		97
61) 1,2-Dibromoethane	9.610	107	17154	4.823 ug/l		97
64) Tetrachloroethene	9.275	164	15266	4.856 ug/l		91
65) Chlorobenzene	10.080	112	50559	4.896 ug/l		95
66) 1,1,1,2-Tetrachloroethane	10.165	131	16894	4.839 ug/l		96
67) Ethyl Benzene	10.195	91	84363	4.746 ug/l		98
68) m/p-Xylenes	10.299	106	62714	9.462 ug/l		97
69) o-Xylene	10.640	106	29488	4.623 ug/l		100
70) Styrene	10.653	104	51543	4.783 ug/l		98
71) Bromoform	10.799	173	12769	4.869 ug/l	#	94
73) Isopropylbenzene	10.964	105	79512	4.533 ug/l		99
74) N-amyl acetate	10.842	43	27565	4.138 ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	24139	4.687 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	19912m	4.843 ug/l		
77) Bromobenzene	11.195	156	20380	4.758 ug/l		96
78) n-propylbenzene	11.305	91	95550	4.561 ug/l		100
79) 2-Chlorotoluene	11.366	91	58544	4.623 ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	65210	4.518 ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	1992	9.640 ug/l		87
82) 4-Chlorotoluene	11.451	91	70117	4.697 ug/l		98
83) tert-Butylbenzene	11.713	119	64267	4.463 ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	67032	4.644 ug/l		98
85) sec-Butylbenzene	11.890	105	81375	4.559 ug/l		99
86) p-Isopropyltoluene	12.006	119	68849	4.559 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	38531	4.709 ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	40089	4.763 ug/l		93
89) n-Butylbenzene	12.329	91	62666	4.461 ug/l		99
90) Hexachloroethane	12.536	117	11325	4.274 ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	36248	4.667 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	4081	4.097 ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	23080	4.432 ug/l		96
94) Hexachlorobutadiene	13.725	225	8221	4.436 ug/l		94
95) Naphthalene	13.774	128	60645	4.076 ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	20611	4.199 ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047349.D
Acq On : 15 Aug 2025 09:40
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 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:52:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

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

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

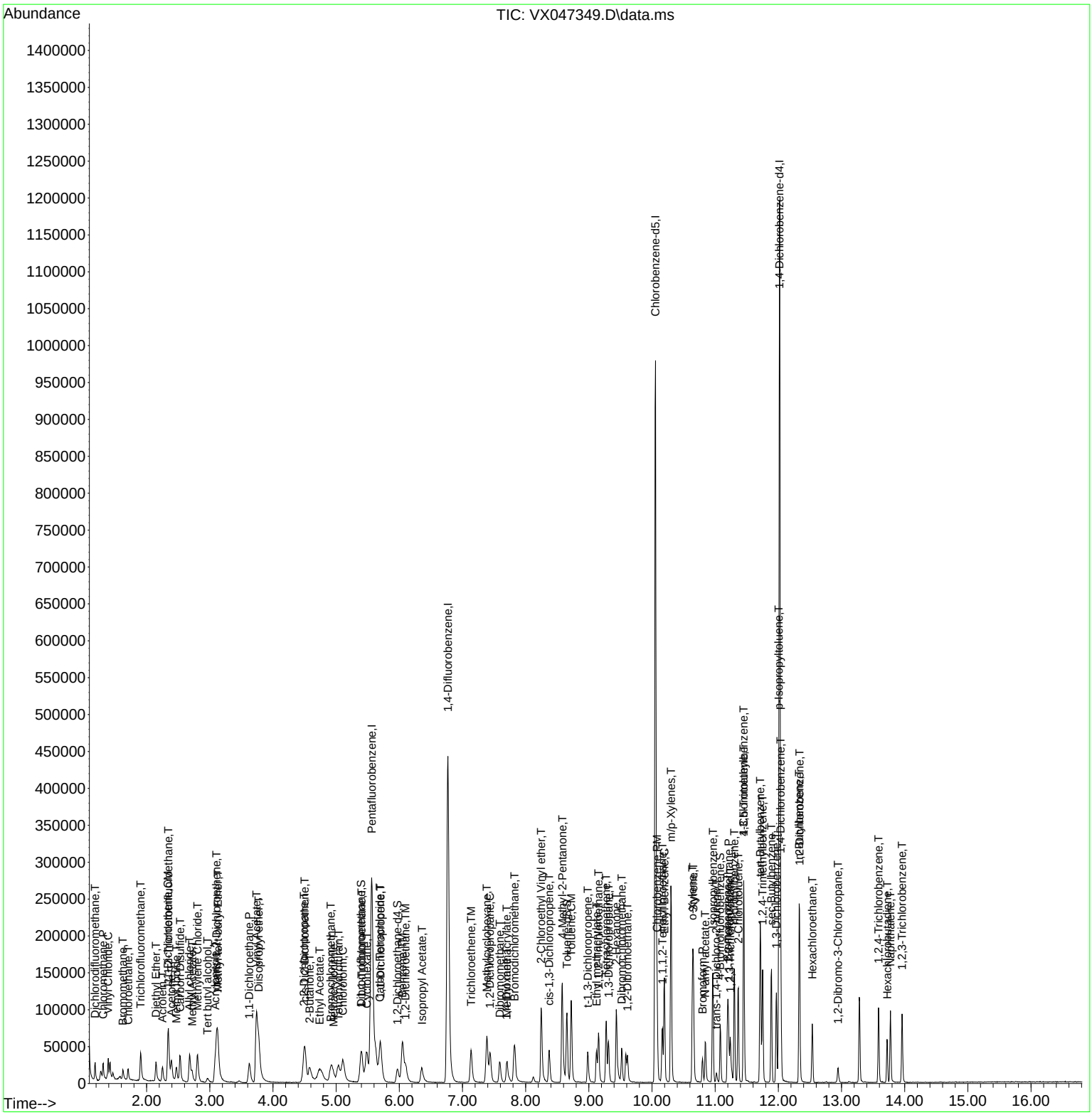
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047349.D
Acq On : 15 Aug 2025 09:40
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

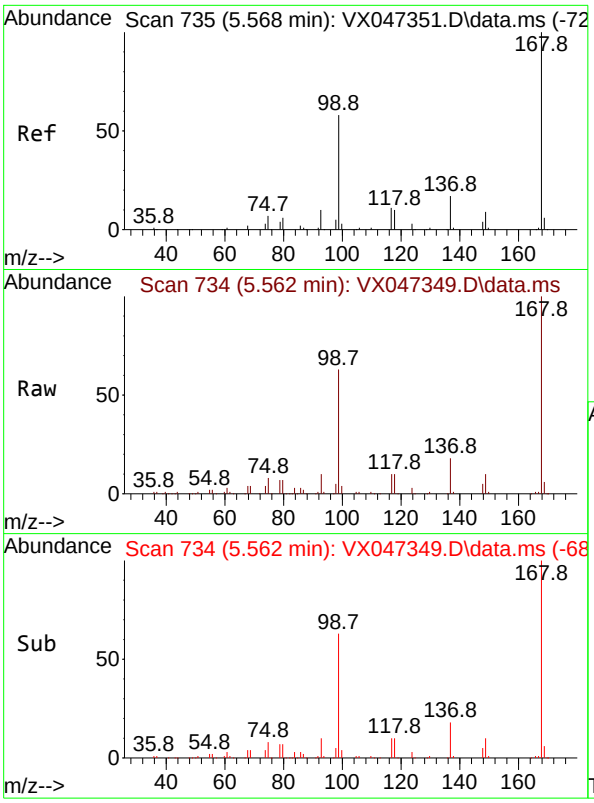
Quant Time: Aug 18 02:52:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

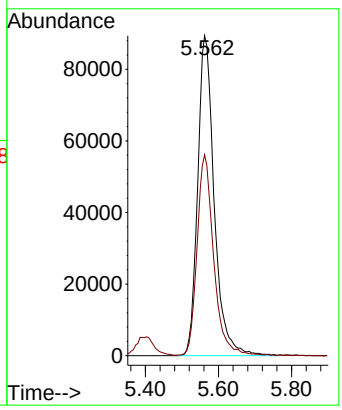




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:168 Resp: 28160

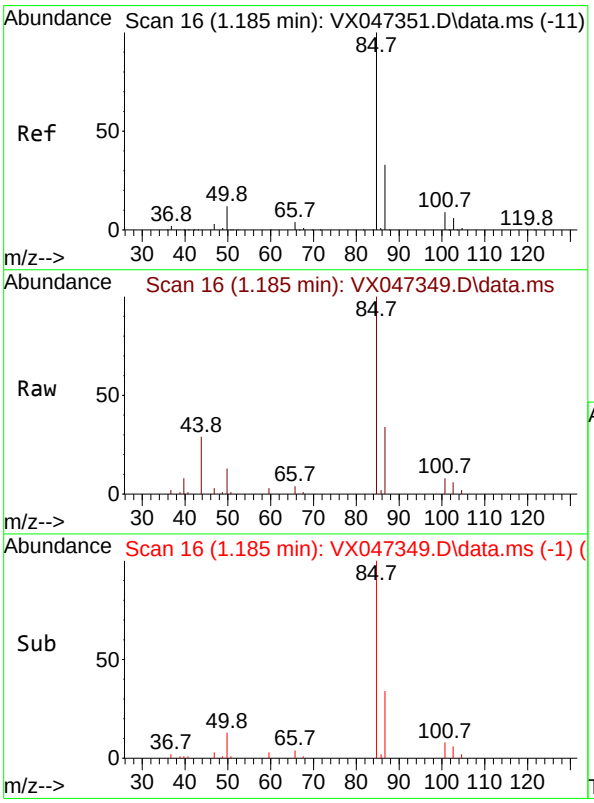
Ion	Ratio	Lower	Upper
168	100		
99	62.6	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

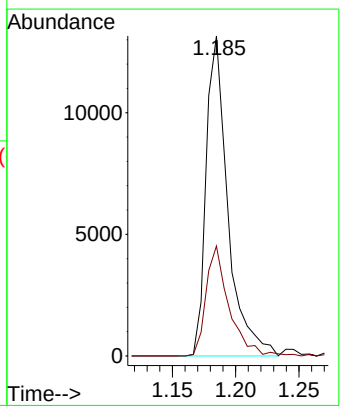
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

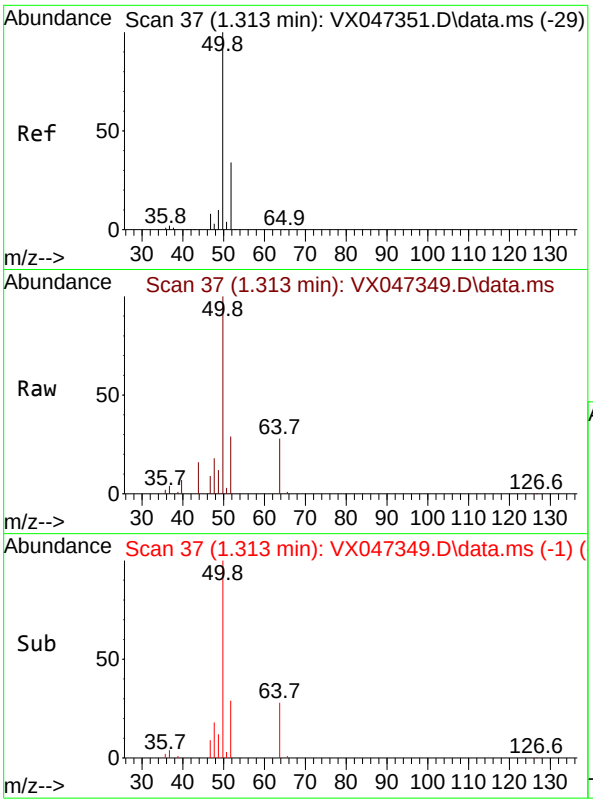


#2
Dichlorodifluoromethane
Concen: 4.378 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 85 Resp: 15718

Ion	Ratio	Lower	Upper
85	100		
87	34.4	16.4	49.1

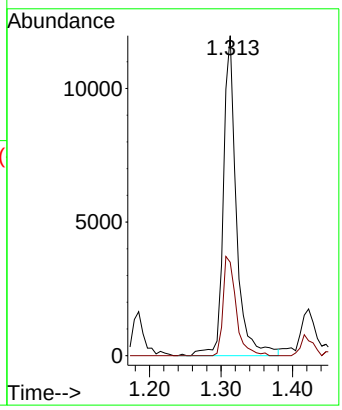




#3
Chloromethane
Concen: 4.697 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 50 Resp: 1517

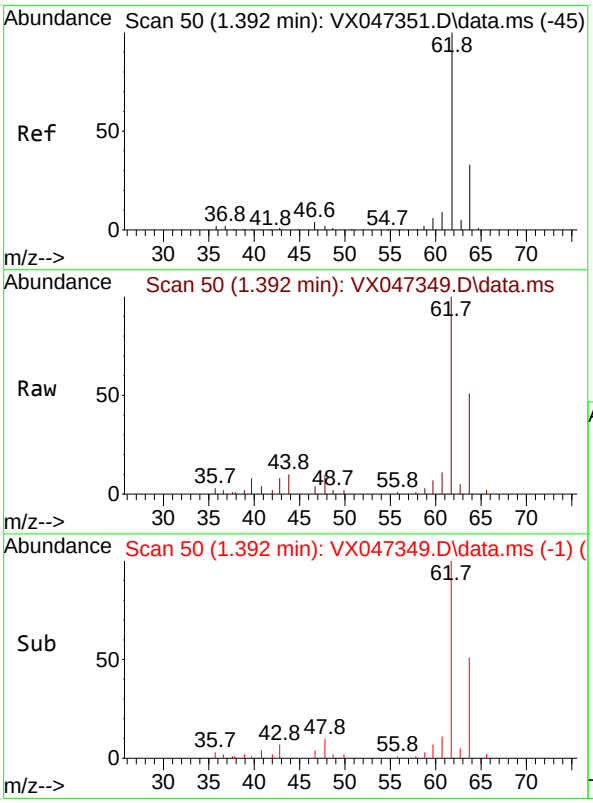
Ion	Ratio	Lower	Upper
50	100		
52	29.2	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

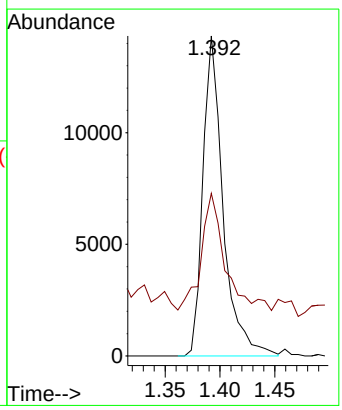
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

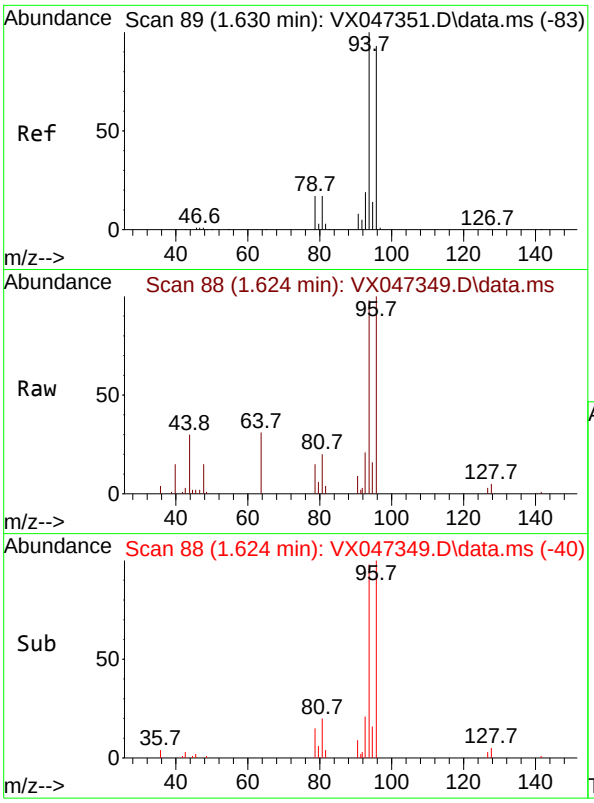


#4
Vinyl Chloride
Concen: 4.520 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 62 Resp: 18322

Ion	Ratio	Lower	Upper
62	100		
64	36.4	26.5	39.7

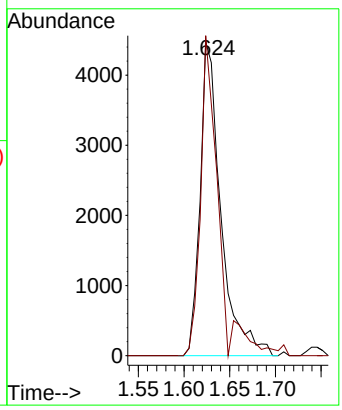




#5
Bromomethane
Concen: 4.322 ug/l
RT: 1.624 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 94 Resp: 707

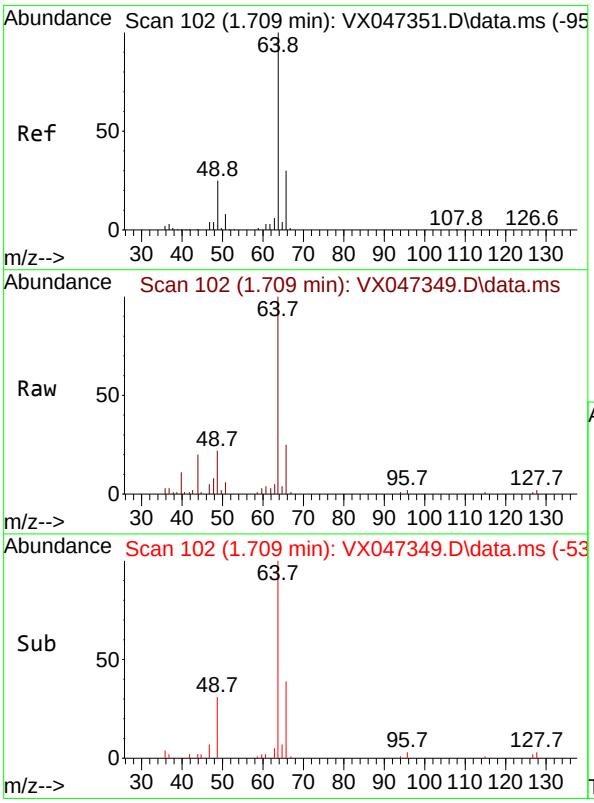
Ion	Ratio	Lower	Upper
94	100		
96	87.8	74.7	112.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

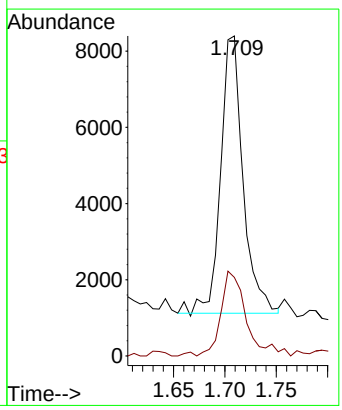
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

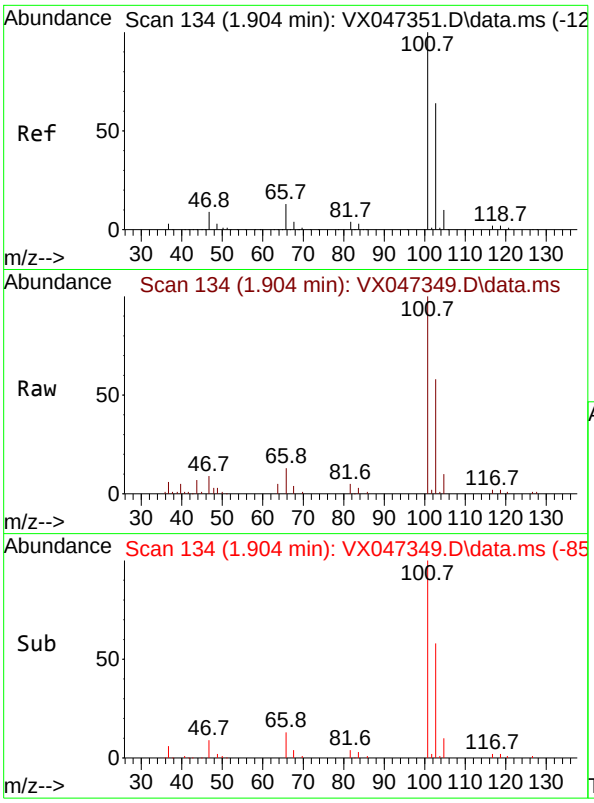


#6
Chloroethane
Concen: 4.452 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 64 Resp: 11042

Ion	Ratio	Lower	Upper
64	100		
66	28.4	24.4	36.6

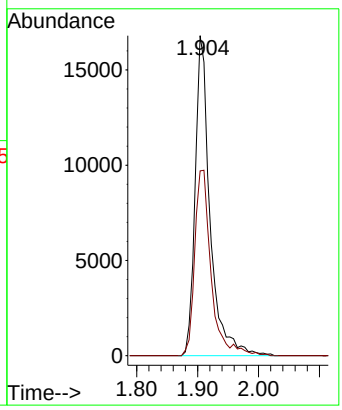




#7
Trichlorofluoromethane
Concen: 4.751 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:101 Resp: 2848

Ion	Ratio	Lower	Upper
101	100		
103	57.8	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025
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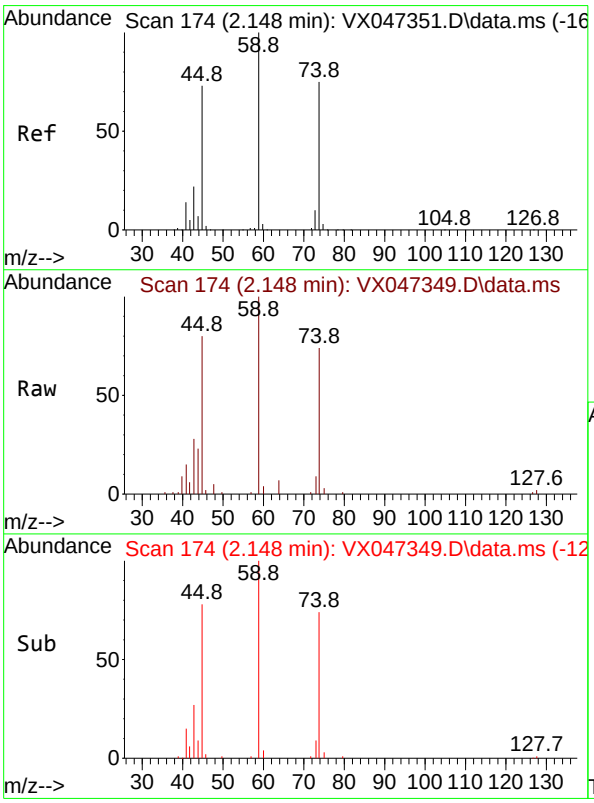
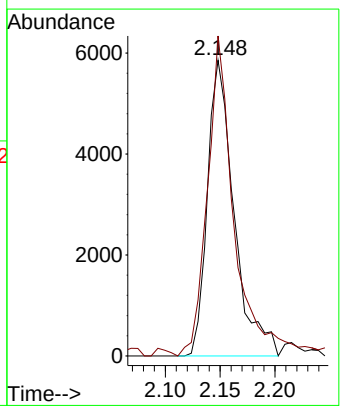
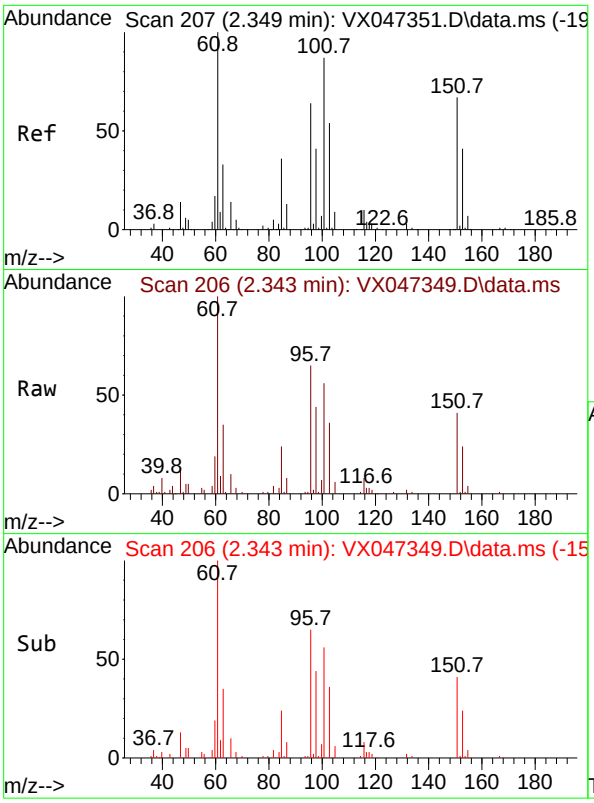


#8
Diethyl Ether
Concen: 4.685 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 74 Resp: 9891

Ion	Ratio	Lower	Upper
74	100		
45	111.2	51.3	154.0

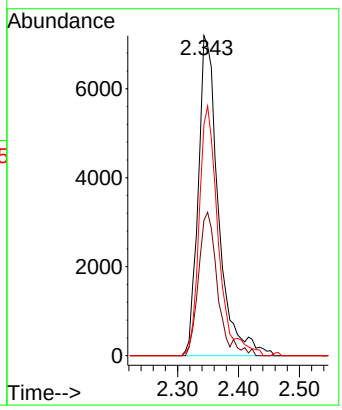




#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.768 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:101 Resp: 1658

Ion	Ratio	Lower	Upper
101	100		
85	42.4	34.3	51.5
151	73.3	59.2	88.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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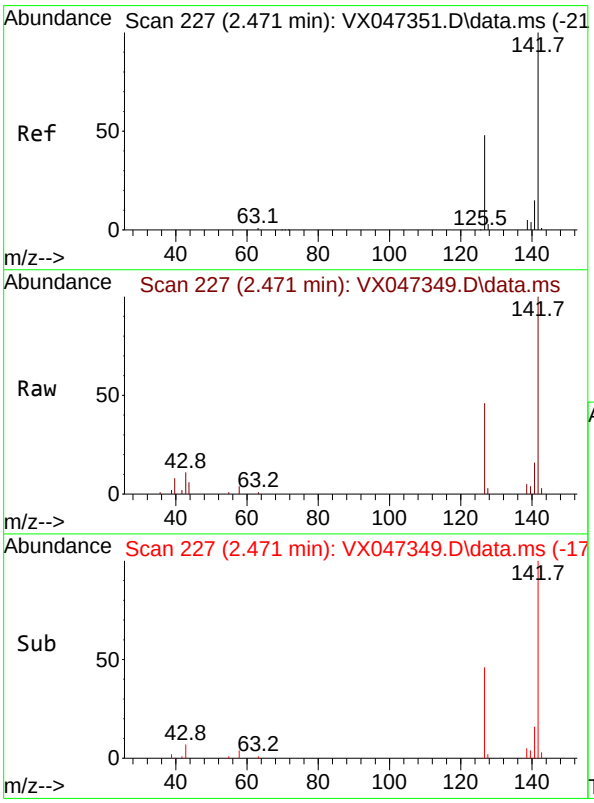
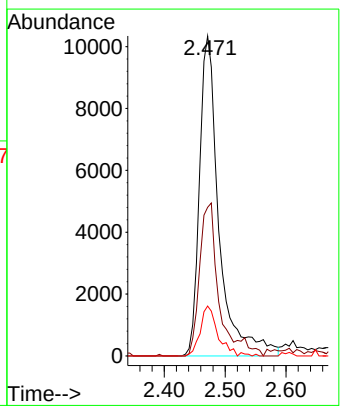
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

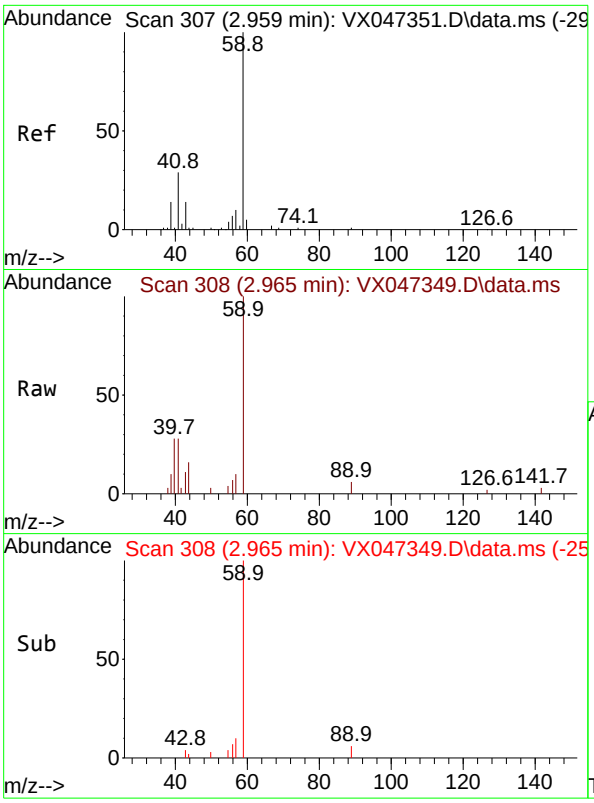


#10
Methyl Iodide
Concen: 3.872 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:142 Resp: 23080

Ion	Ratio	Lower	Upper
142	100		
127	47.1	36.1	54.1
141	14.2	11.1	16.7





#11
Tert butyl alcohol
Concen: 21.408 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 59 Resp: 734

Ion	Ratio	Lower	Upper
59	100		
57	6.4	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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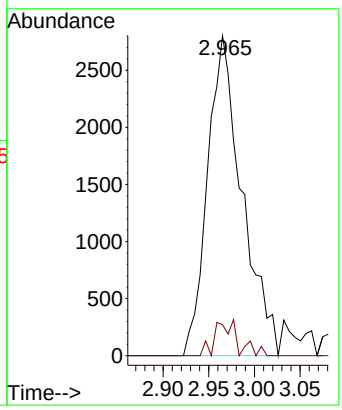
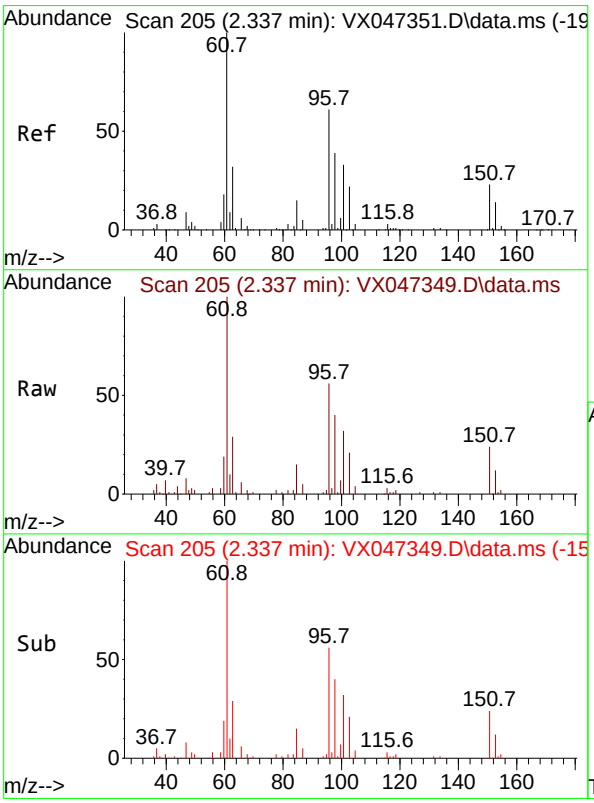
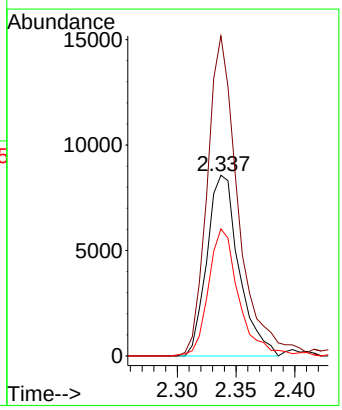


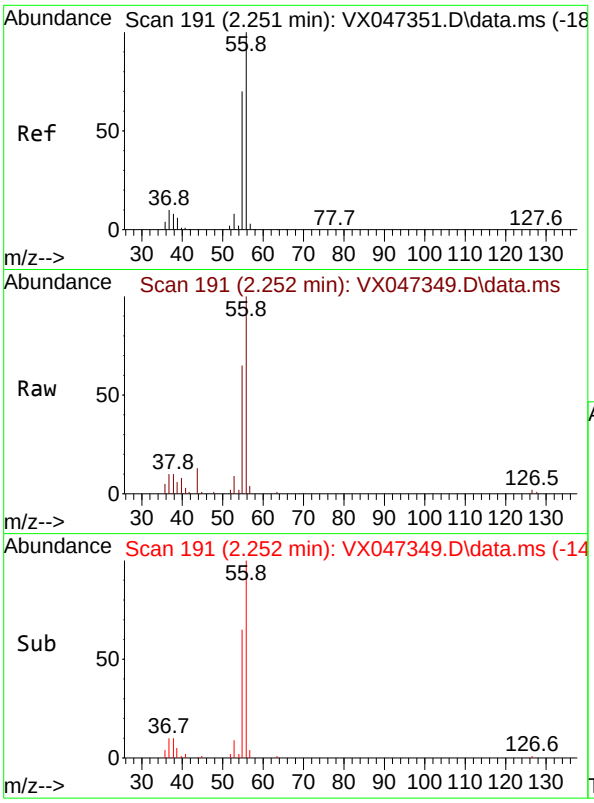


#12
1,1-Dichloroethene
Concen: 4.570 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 96 Resp: 16204

Ion	Ratio	Lower	Upper
96	100		
61	177.1	132.2	198.2
98	69.6	51.2	76.8

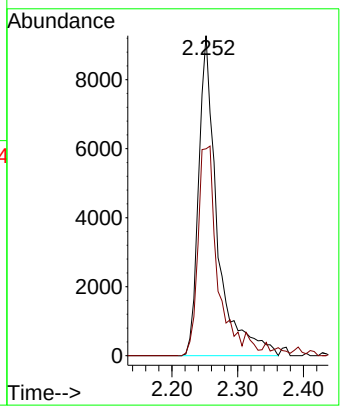




#13
Acrolein
Concen: 25.248 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 56 Resp: 1827

Ion	Ratio	Lower	Upper
56	100		
55	66.8	55.5	83.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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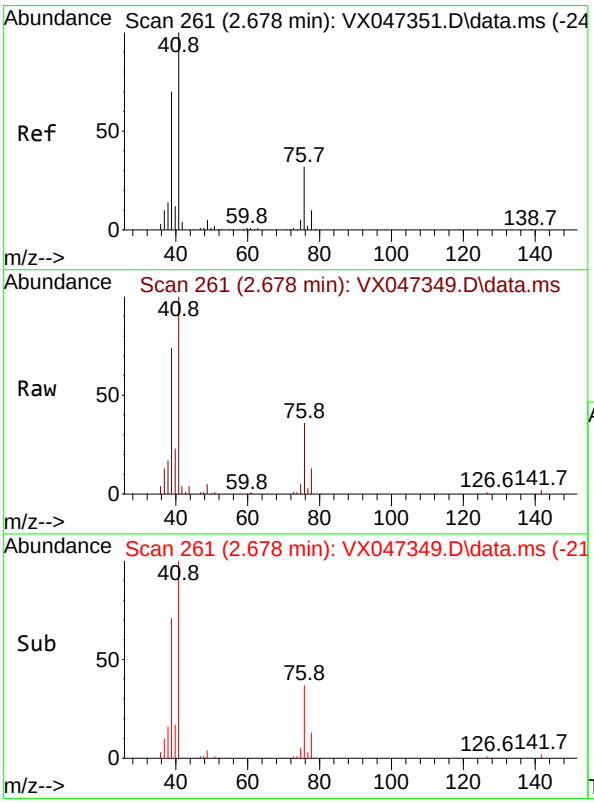
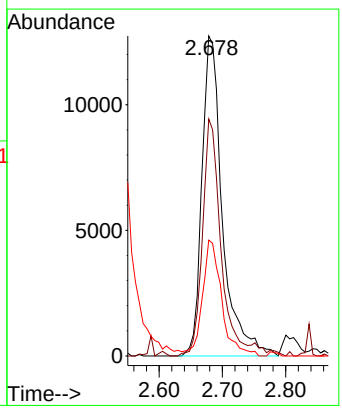
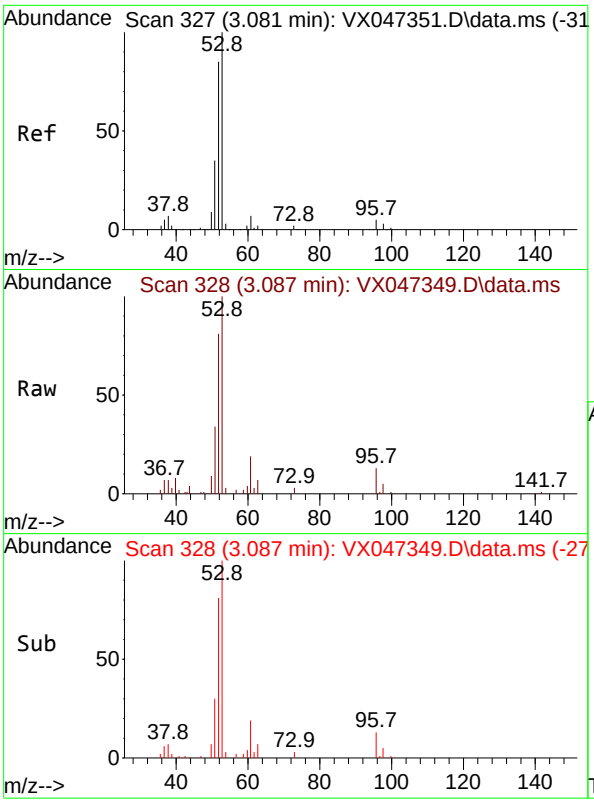


#14
Allyl chloride
Concen: 4.676 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 41 Resp: 28797

Ion	Ratio	Lower	Upper
41	100		
39	68.3	54.6	81.8
76	34.0	27.6	41.4

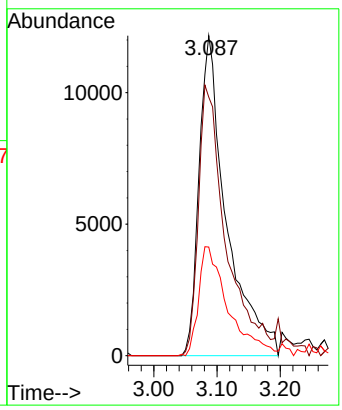




#15
Acrylonitrile
Concen: 22.099 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 53 Resp: 3661

Ion	Ratio	Lower	Upper
53	100		
52	84.8	65.8	98.6
51	36.7	28.2	42.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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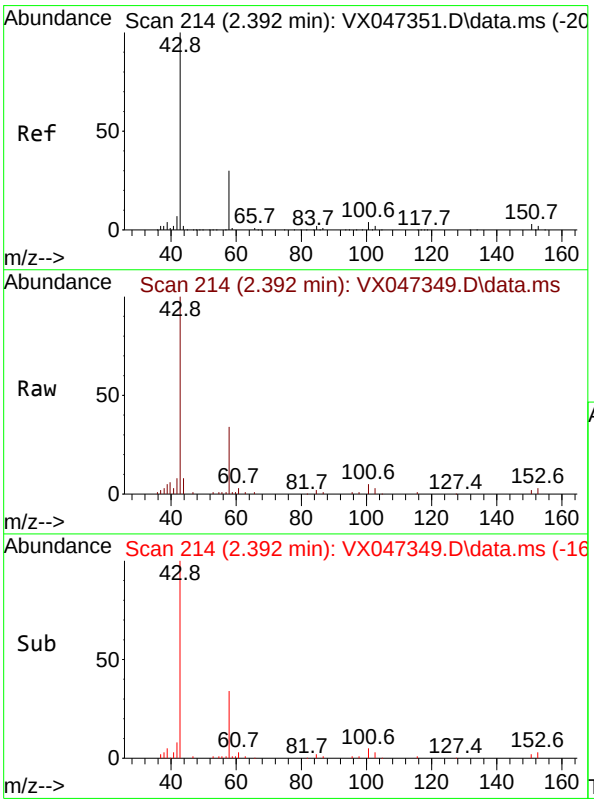
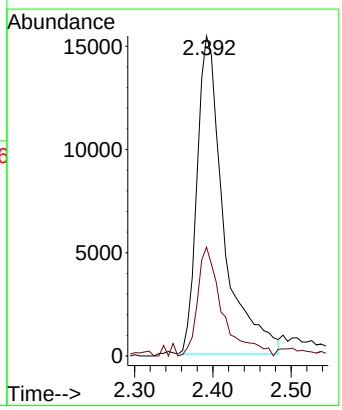
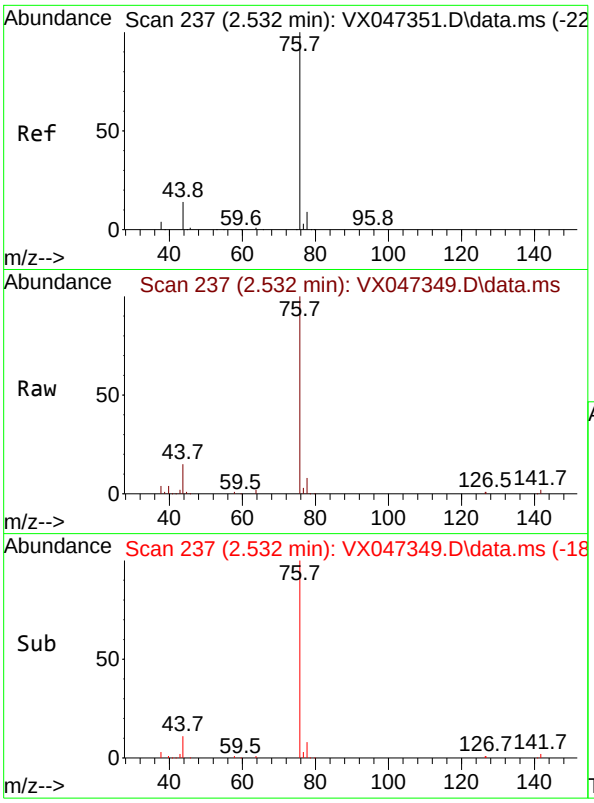


#16
Acetone
Concen: 24.598 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 43 Resp: 36440

Ion	Ratio	Lower	Upper
43	100		
58	34.2	24.8	37.2





#17
Carbon Disulfide
Concen: 4.598 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 76 Resp: 4919

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.2	10.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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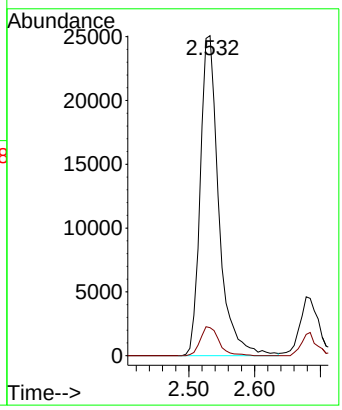
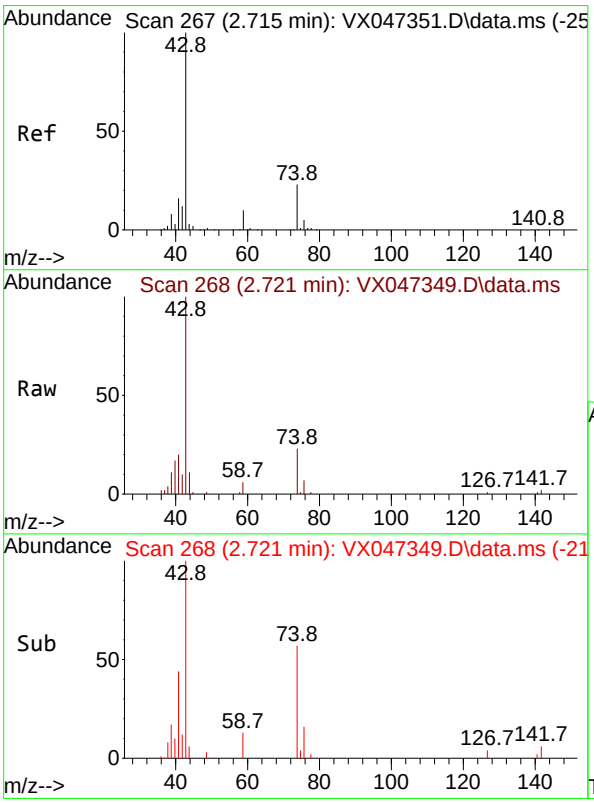
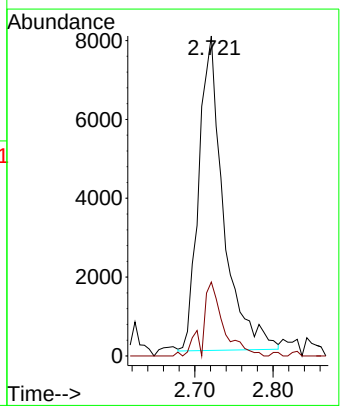


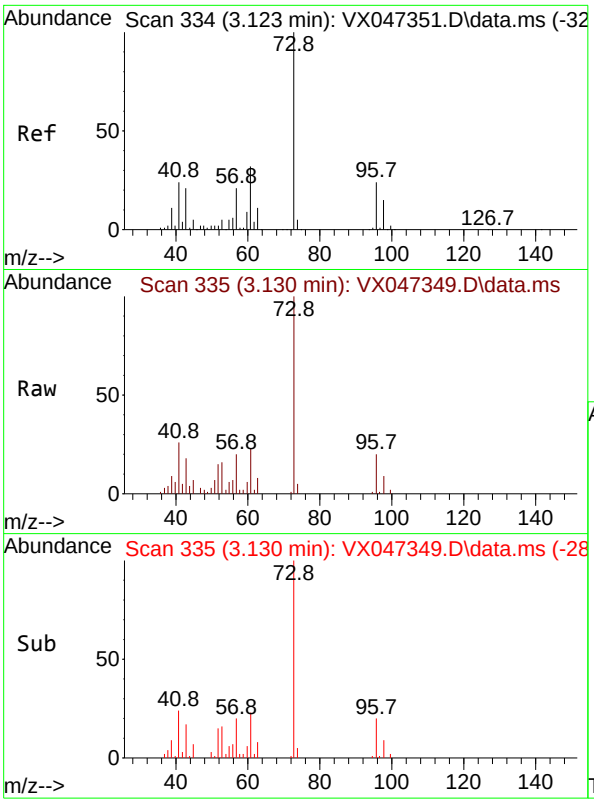


#18
Methyl Acetate
Concen: 4.547 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 43 Resp: 17456

Ion	Ratio	Lower	Upper
43	100		
74	19.6	18.4	27.6

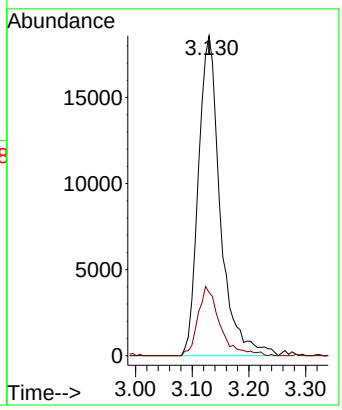




#19
Methyl tert-butyl Ether
Concen: 4.617 ug/l
RT: 3.130 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 73 Resp: 4979

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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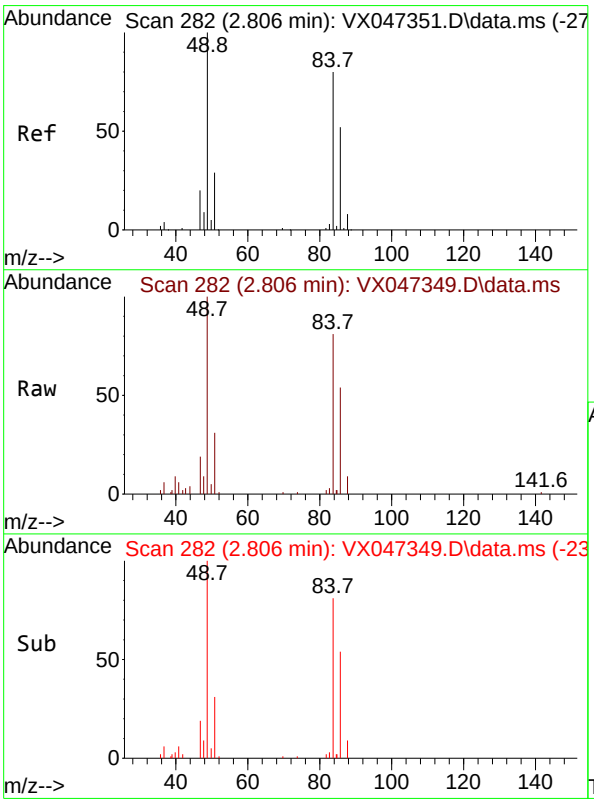
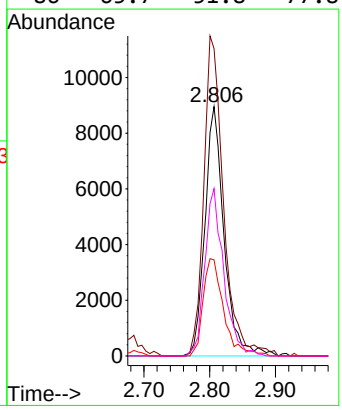
Supervised By :Mahesh Dadoda 08/19/2025

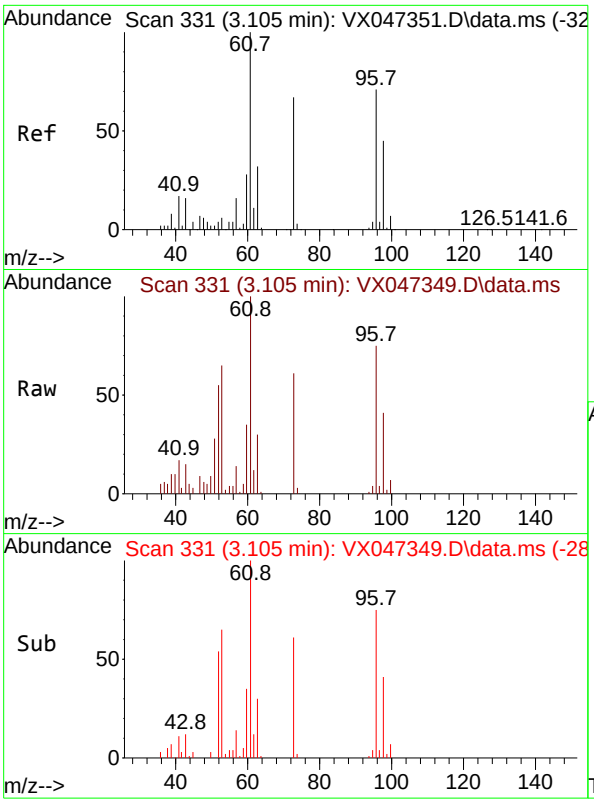


#20
Methylene Chloride
Concen: 4.633 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 84 Resp: 18175

Ion	Ratio	Lower	Upper
84	100		
49	120.7	100.1	150.1
51	37.7	29.5	44.3
86	65.7	51.8	77.8

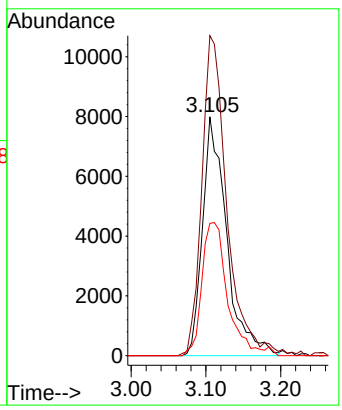




#21
trans-1,2-Dichloroethene
Concen: 4.776 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 96 Resp: 1797

Ion	Ratio	Lower	Upper
96	100		
61	127.0	112.6	169.0
98	52.5	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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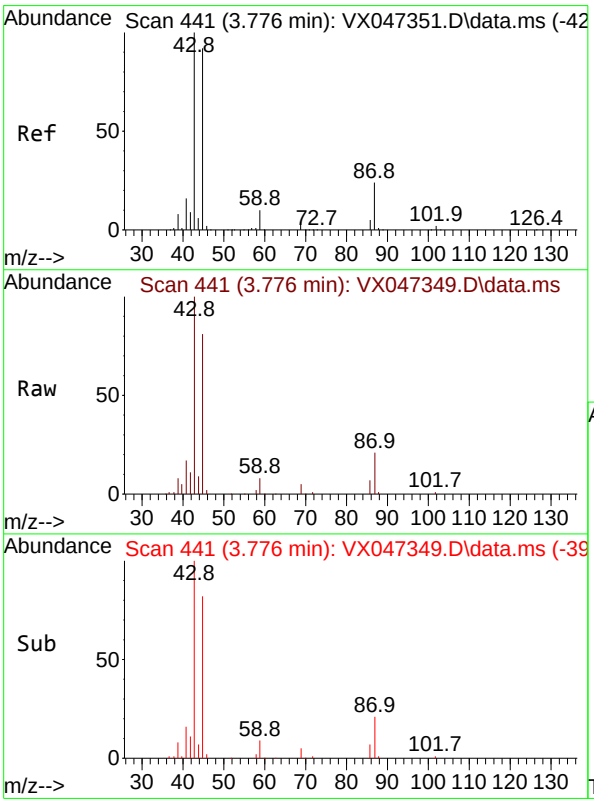
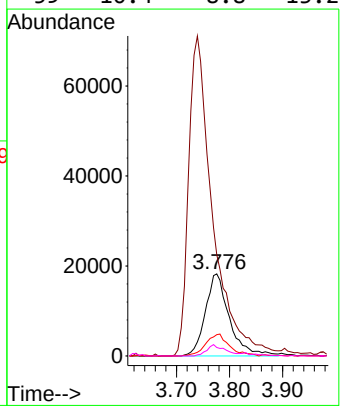
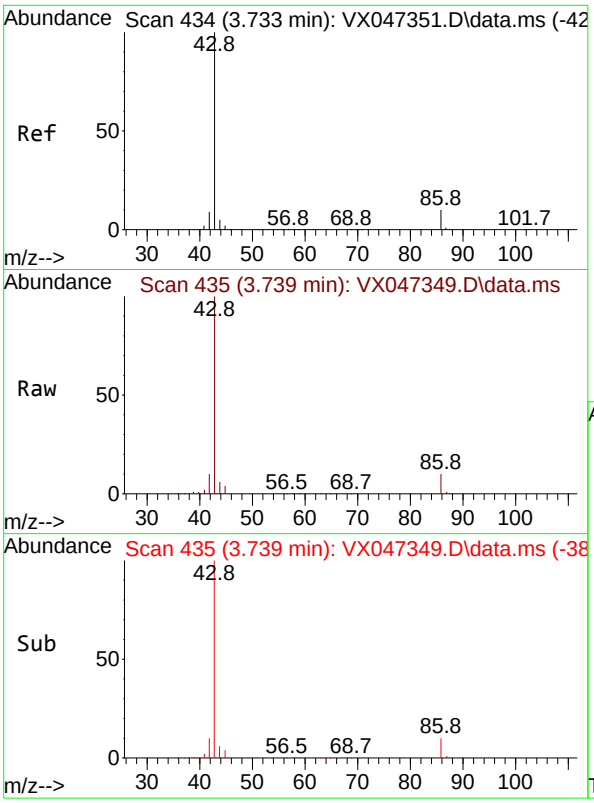


#22
Diisopropyl ether
Concen: 4.708 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 45 Resp: 57311

Ion	Ratio	Lower	Upper
45	100		
43	113.8	86.8	130.2
87	25.9	20.4	30.6
59	10.4	8.8	13.2

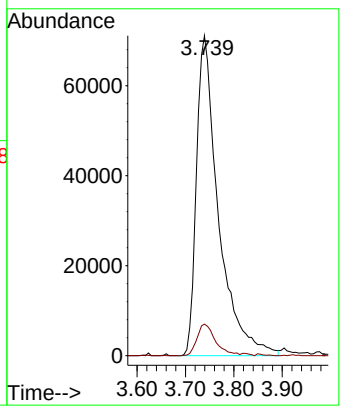




#23
Vinyl Acetate
Concen: 22.525 ug/l
RT: 3.739 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 43 Resp: 22474

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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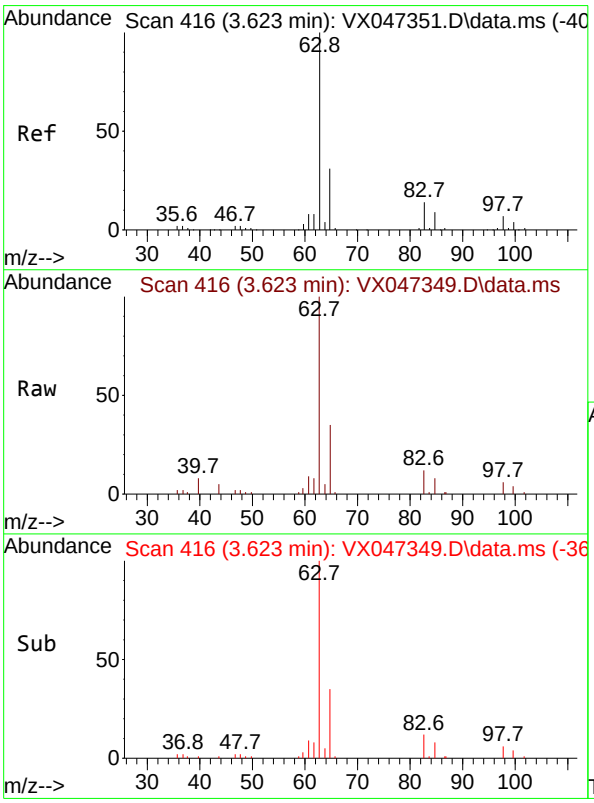
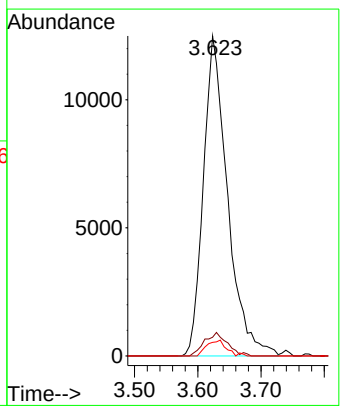
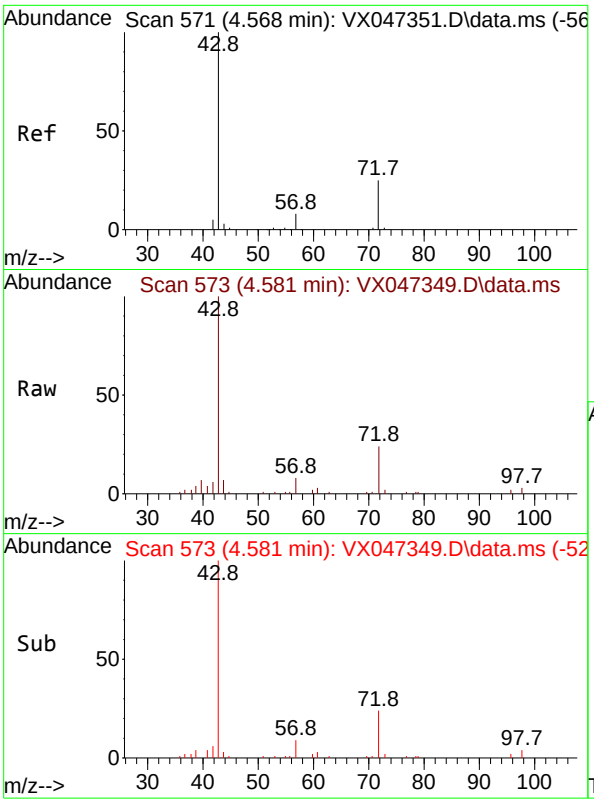


#24
1,1-Dichloroethane
Concen: 4.831 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 63 Resp: 33241

Ion	Ratio	Lower	Upper
63	100		
98	5.8	3.3	9.9
100	4.3	2.1	6.3

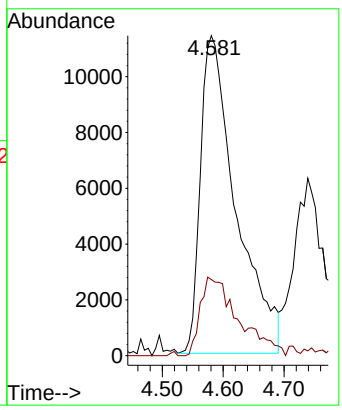




#25
2-Butanone
Concen: 23.830 ug/l
RT: 4.581 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 43 Resp: 4623

Ion	Ratio	Lower	Upper
43	100		
72	23.1	19.8	29.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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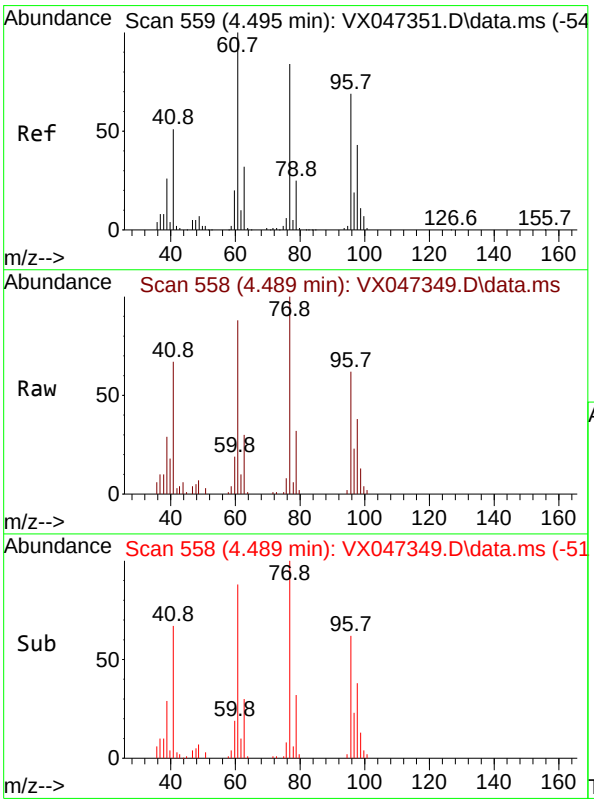
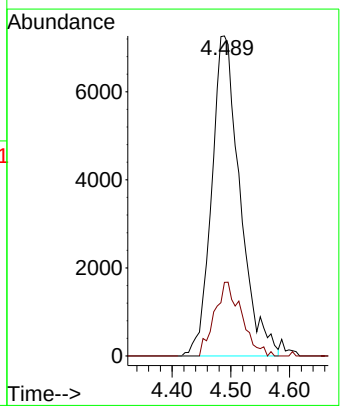
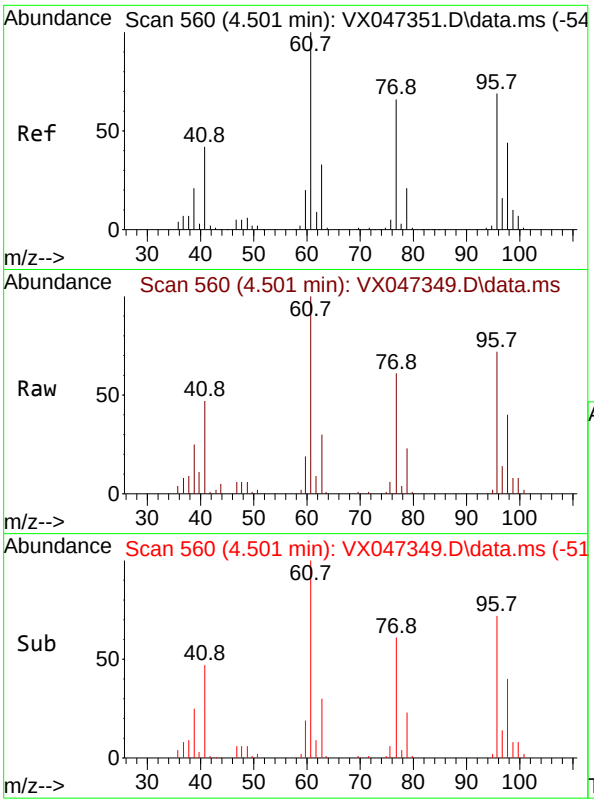


#26
2,2-Dichloropropane
Concen: 4.684 ug/l
RT: 4.489 min Scan# 558
Delta R.T. -0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 77 Resp: 24325

Ion	Ratio	Lower	Upper
77	100		
97	22.0	11.4	34.1

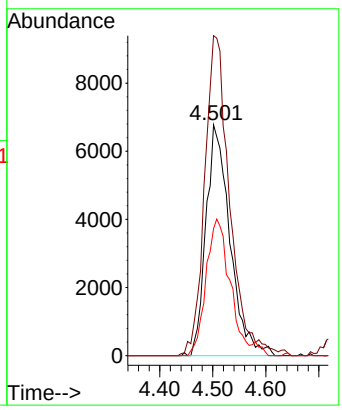




#27
cis-1,2-Dichloroethene
Concen: 4.868 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 96 Resp: 2133

Ion	Ratio	Lower	Upper
96	100		
61	143.6	0.0	296.6
98	60.7	0.0	130.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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Reviewed By :John Carlone 08/18/2025
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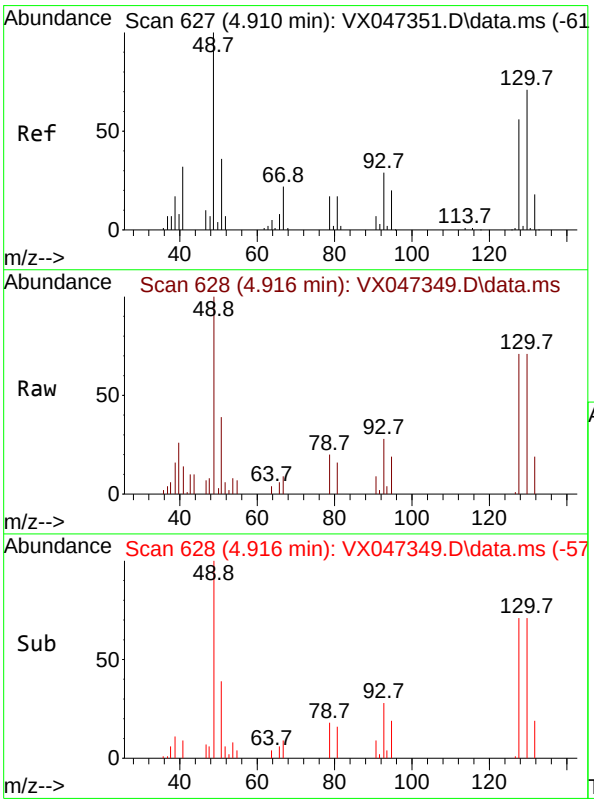
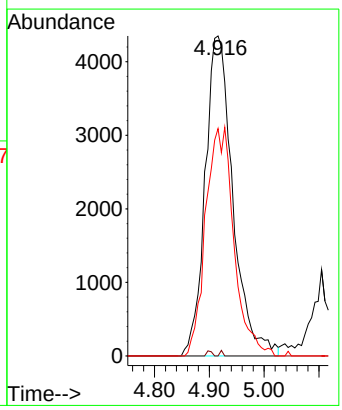
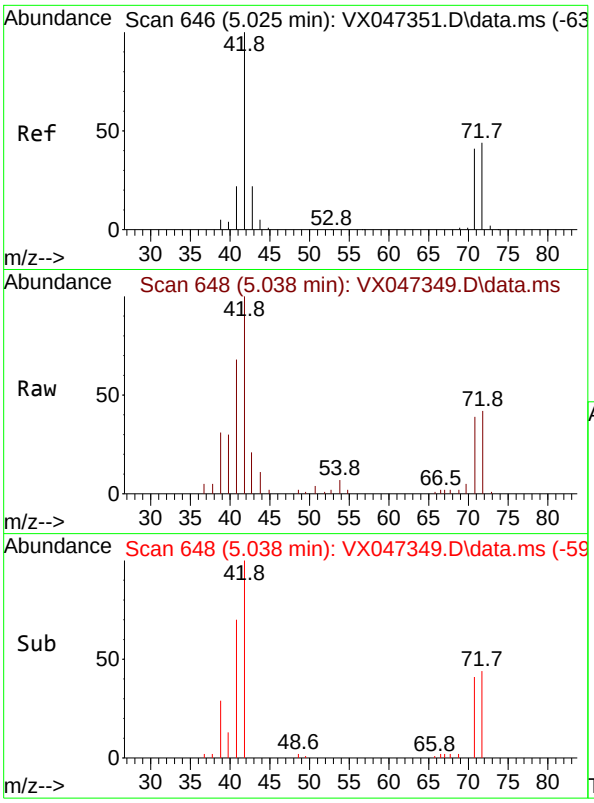


#28
Bromochloromethane
Concen: 5.338 ug/l
RT: 4.916 min Scan# 628
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 49 Resp: 15283

Ion	Ratio	Lower	Upper
49	100		
129	0.2	0.0	4.0
130	72.9	59.8	89.6

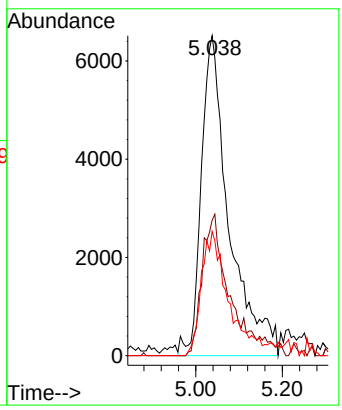




#29
Tetrahydrofuran
Concen: 23.076 ug/l m
RT: 5.038 min Scan# 64
Delta R.T. 0.012 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 42 Resp: 2893

Ion	Ratio	Lower	Upper
42	100		
72	41.4	34.6	51.8
71	38.1	32.6	49.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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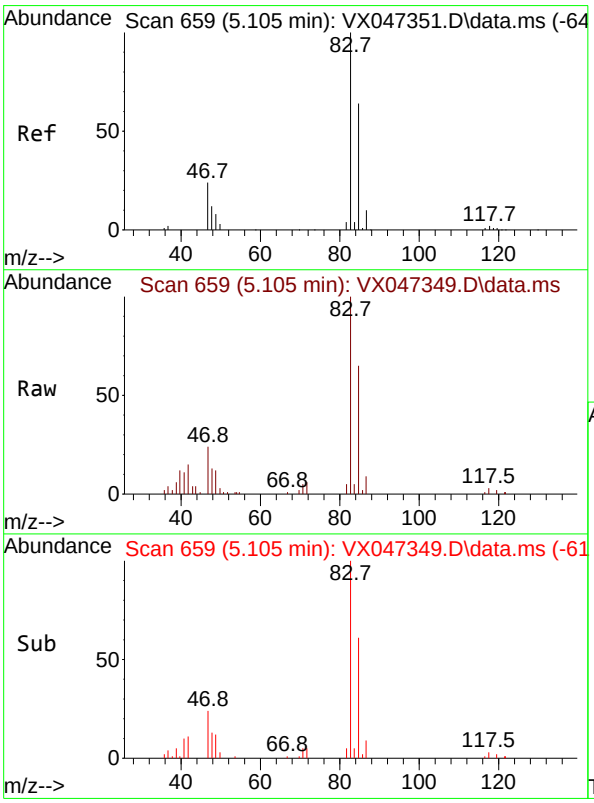
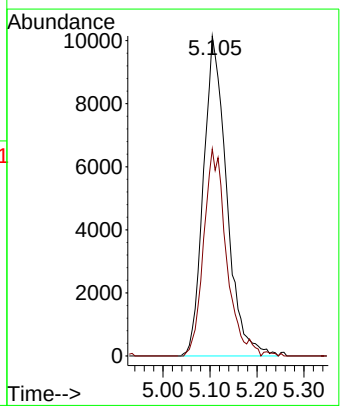
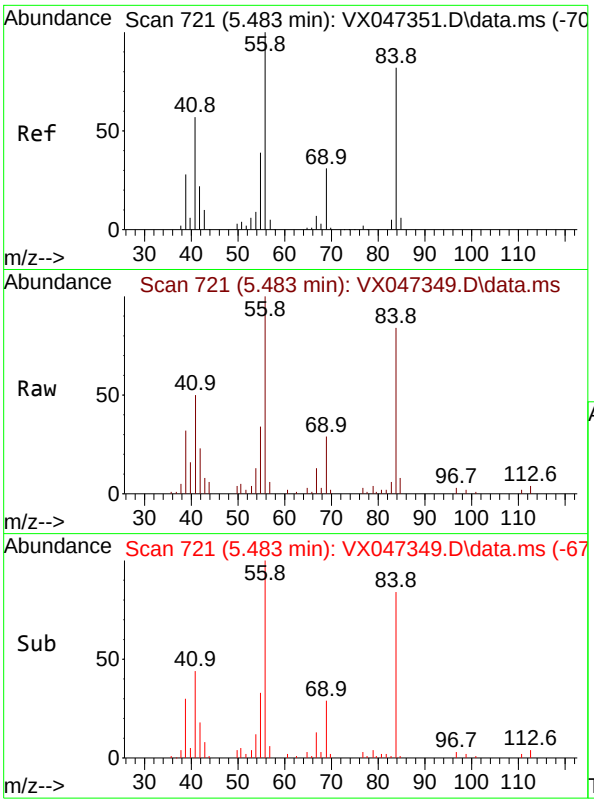


#30
Chloroform
Concen: 4.955 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 83 Resp: 34798

Ion	Ratio	Lower	Upper
83	100		
85	61.9	51.2	76.8

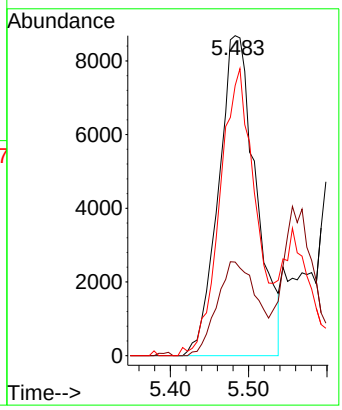




#31
Cyclohexane
Concen: 4.548 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 56 Resp: 2884

Ion	Ratio	Lower	Upper
56	100		
69	29.2	24.3	36.5
84	92.0	65.3	97.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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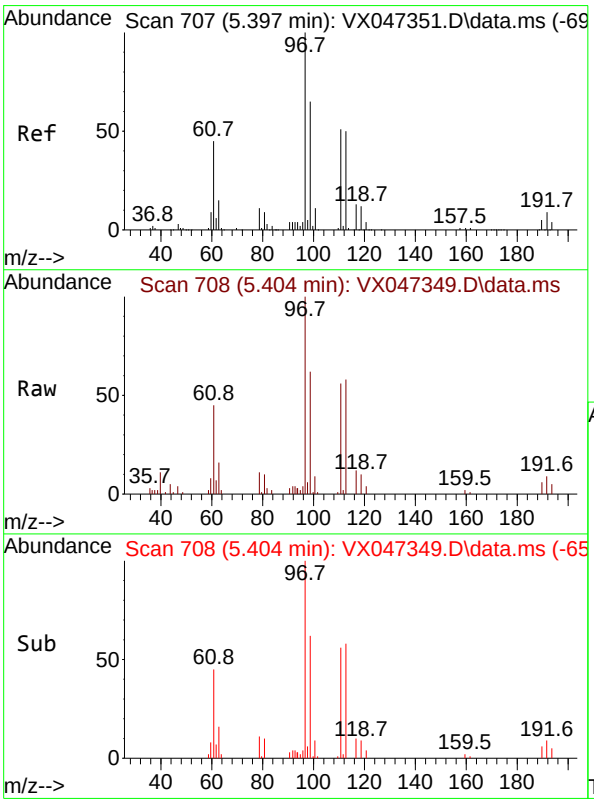
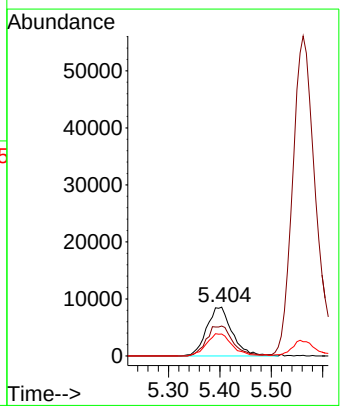
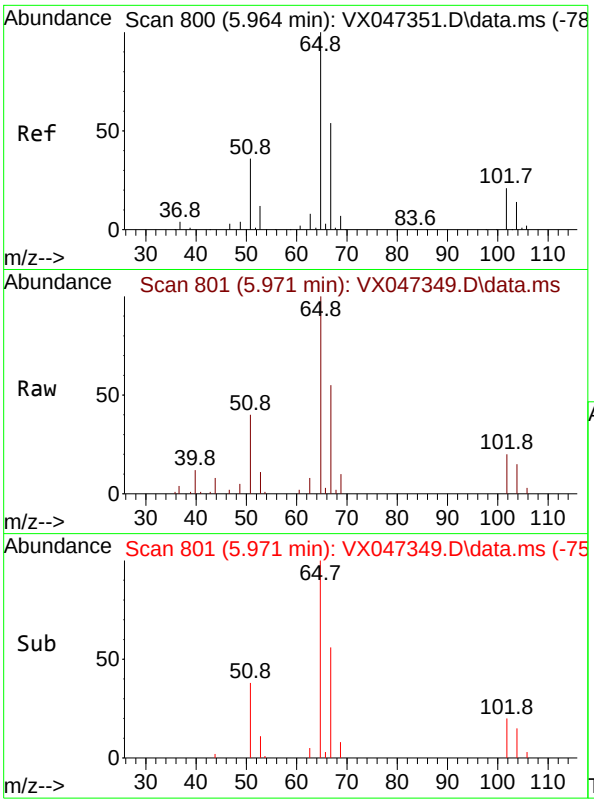


#32
1,1,1-Trichloroethane
Concen: 4.859 ug/l
RT: 5.404 min Scan# 708
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 97 Resp: 29367

Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.4	77.0
61	45.2	35.7	53.5

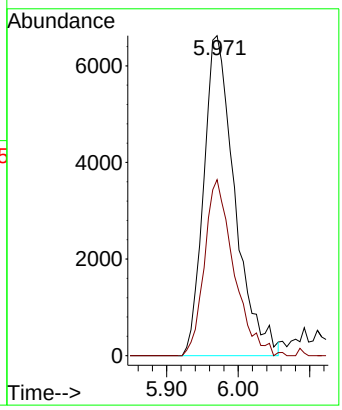




#33
1,2-Dichloroethane-d4
Concen: 5.065 ug/l
RT: 5.971 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 65 Resp: 1996

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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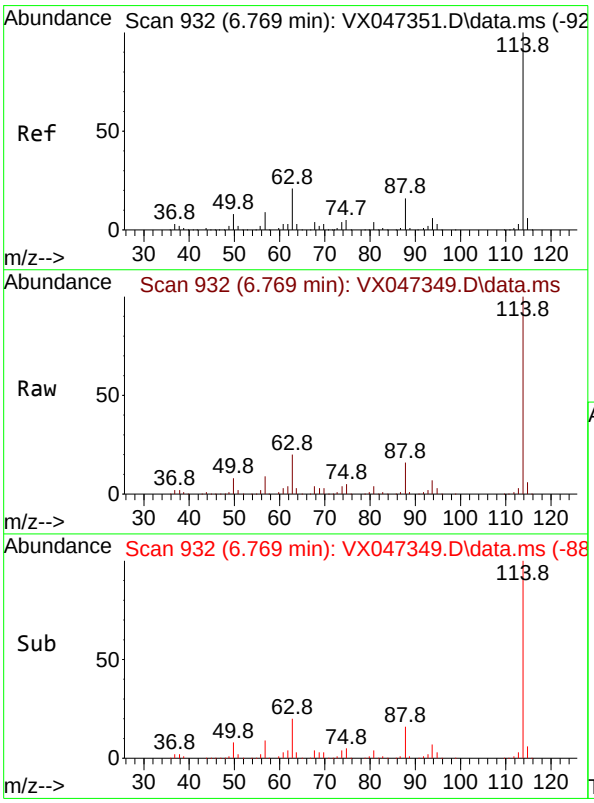
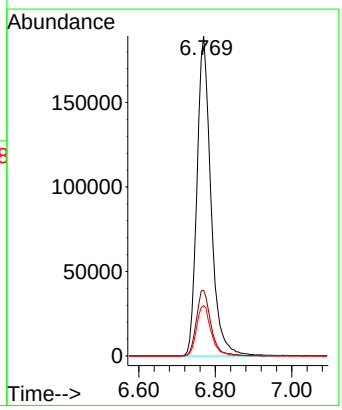
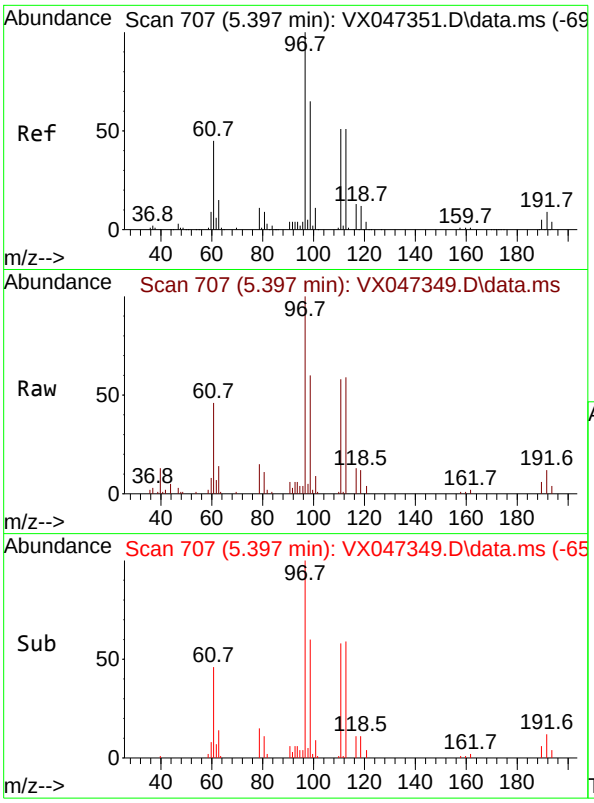


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:114 Resp: 479446

Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	42.4
88	15.7	0.0	33.0

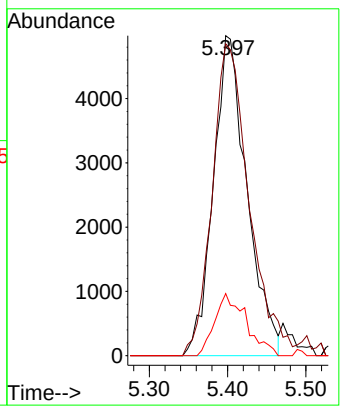




#35
Dibromofluoromethane
Concen: 4.776 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:113 Resp: 1486

Ion	Ratio	Lower	Upper
113	100		
111	106.7	81.4	122.2
192	18.2	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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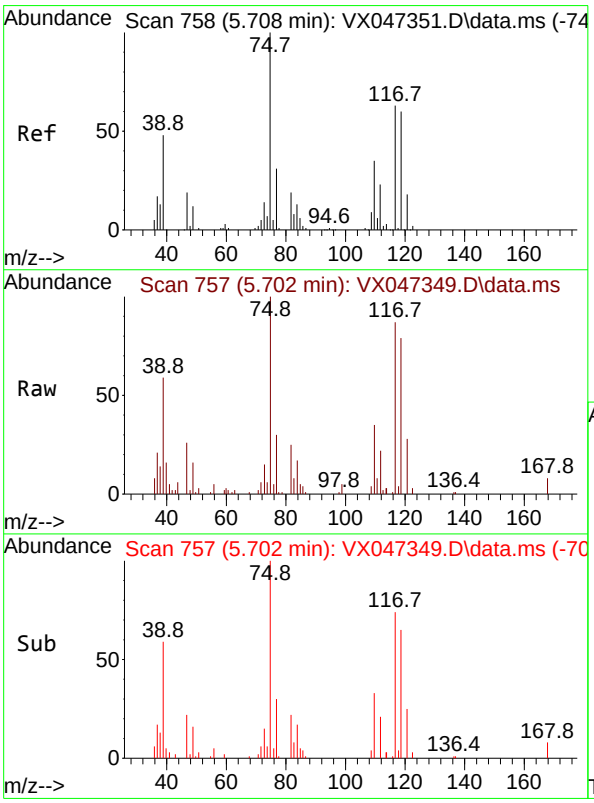
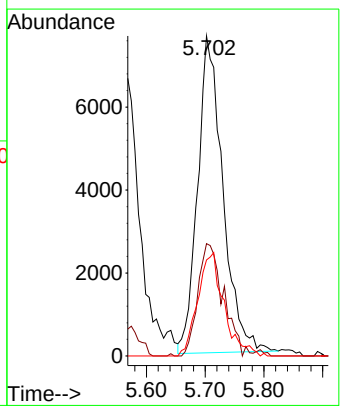
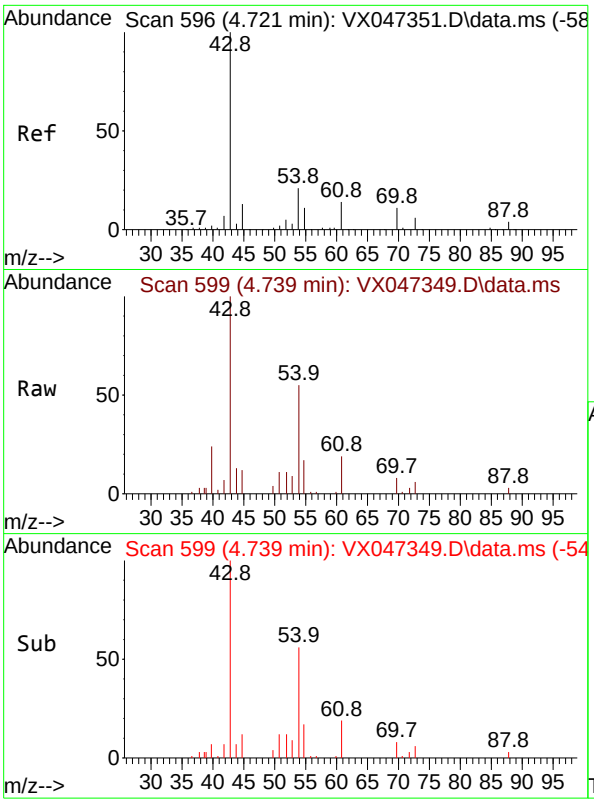


#36
1,1-Dichloropropene
Concen: 4.641 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 75 Resp: 22796

Ion	Ratio	Lower	Upper
75	100		
110	36.1	17.4	52.2
77	33.8	24.4	36.6





#37
Ethyl Acetate
Concen: 4.613 ug/l
RT: 4.739 min Scan# 5
Delta R.T. 0.019 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 43 Resp: 2352

Ion	Ratio	Lower	Upper
43	100		
61	12.2	9.4	14.2
70	8.9	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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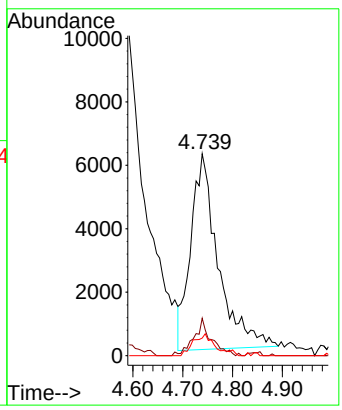
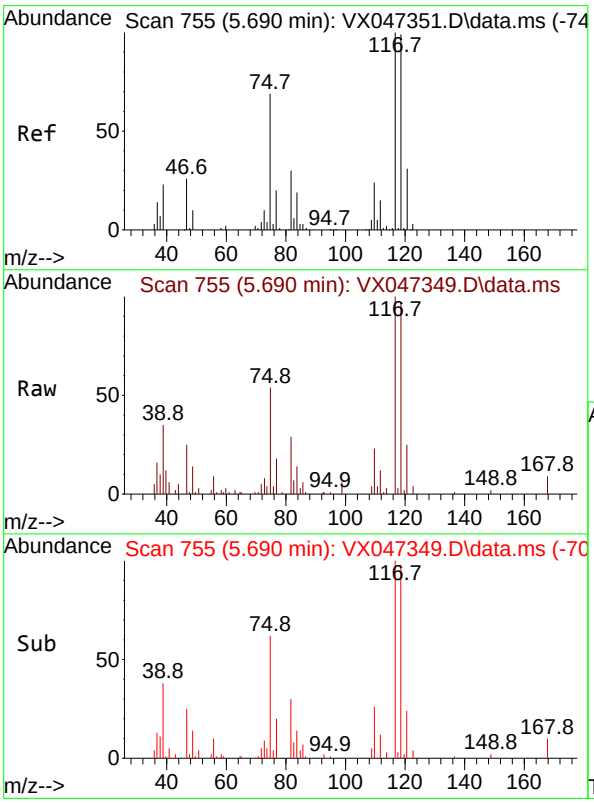
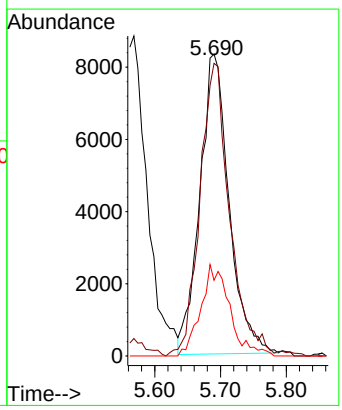


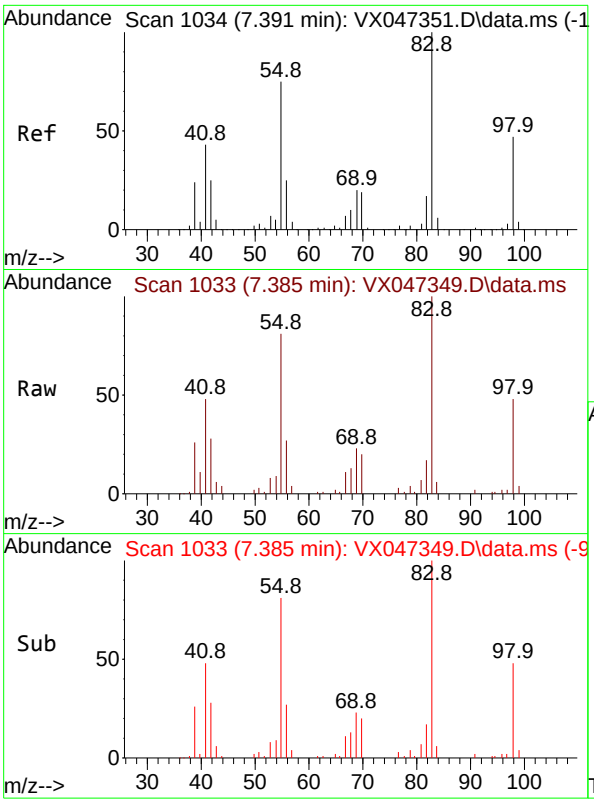


#38
Carbon Tetrachloride
Concen: 4.791 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:117 Resp: 25718

Ion	Ratio	Lower	Upper
117	100		
119	96.4	78.5	117.7
121	25.3	24.7	37.1

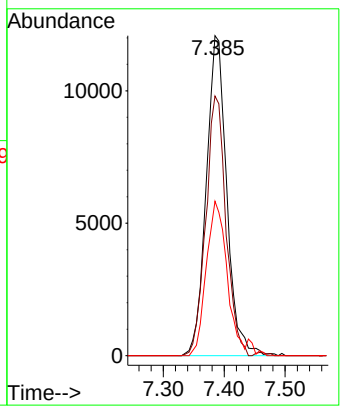




#39
Methylcyclohexane
Concen: 4.609 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 83 Resp: 2824

Ion	Ratio	Lower	Upper
83	100		
55	76.5	60.0	90.0
98	45.5	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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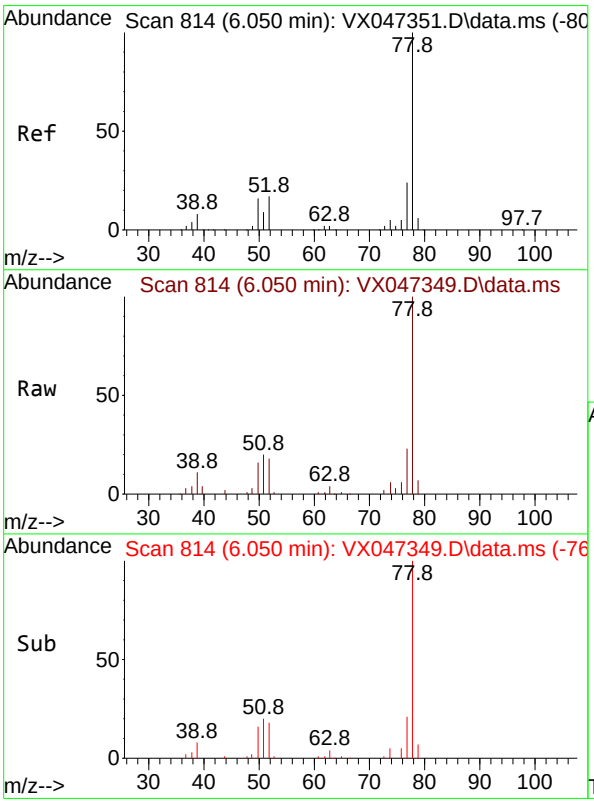
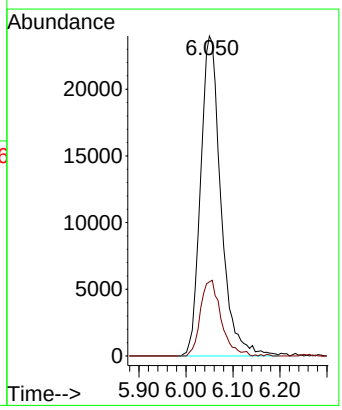
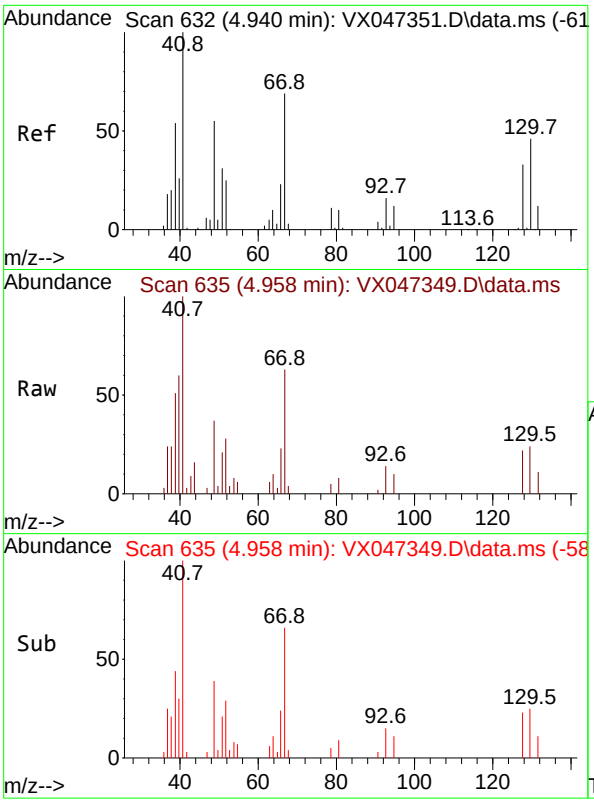


#40
Benzene
Concen: 4.899 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 78 Resp: 72021

Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.4

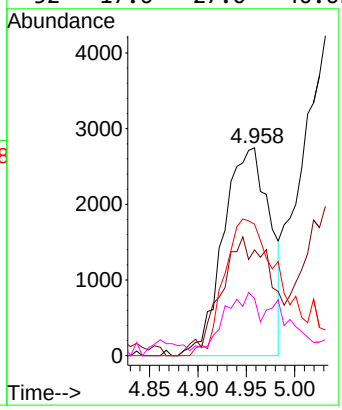




#41
Methacrylonitrile
Concen: 4.271 ug/l
RT: 4.958 min Scan# 6
Delta R.T. 0.018 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 41 Resp: 918

Ion	Ratio	Lower	Upper
41	100		
39	61.5	45.4	68.2
67	77.7	64.0	96.0
52	17.6	27.0	40.6#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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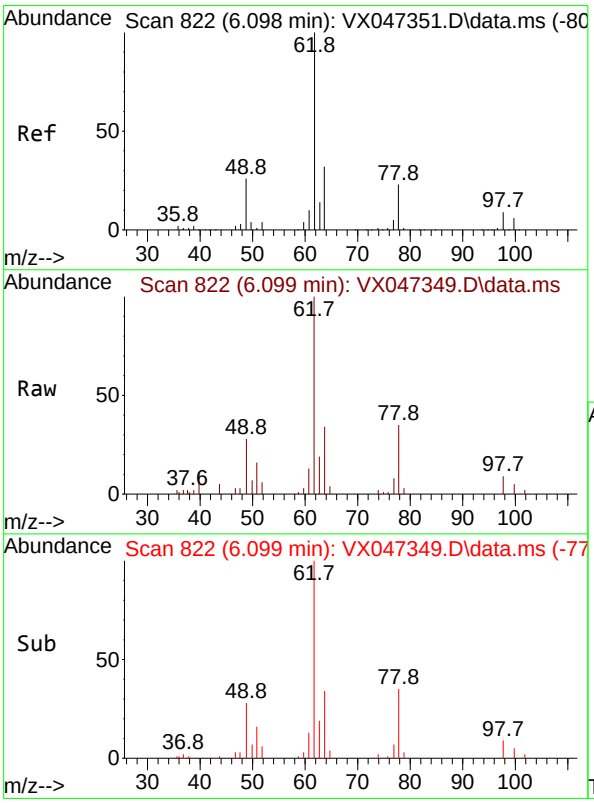
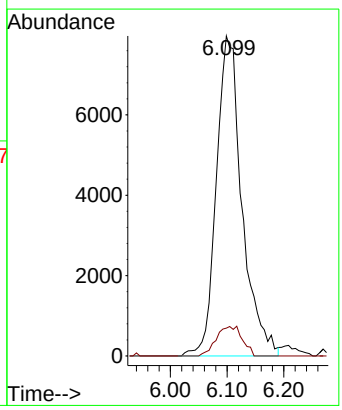
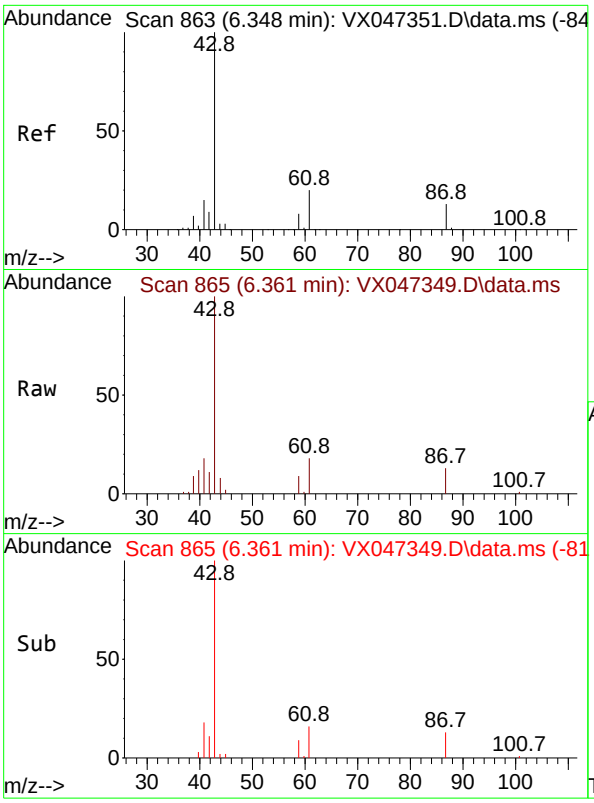


#42
1,2-Dichloroethane
Concen: 4.796 ug/l
RT: 6.099 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 62 Resp: 24979

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.0

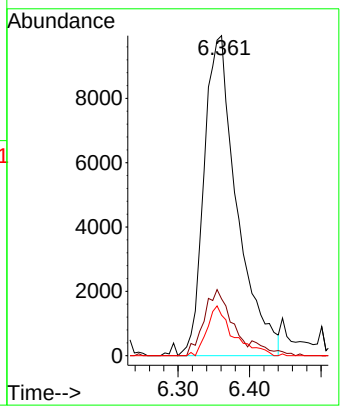




#43
Isopropyl Acetate
Concen: 4.316 ug/l
RT: 6.361 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 43 Resp: 3162

Ion	Ratio	Lower	Upper
43	100		
61	17.1	15.4	23.0
87	12.4	10.2	15.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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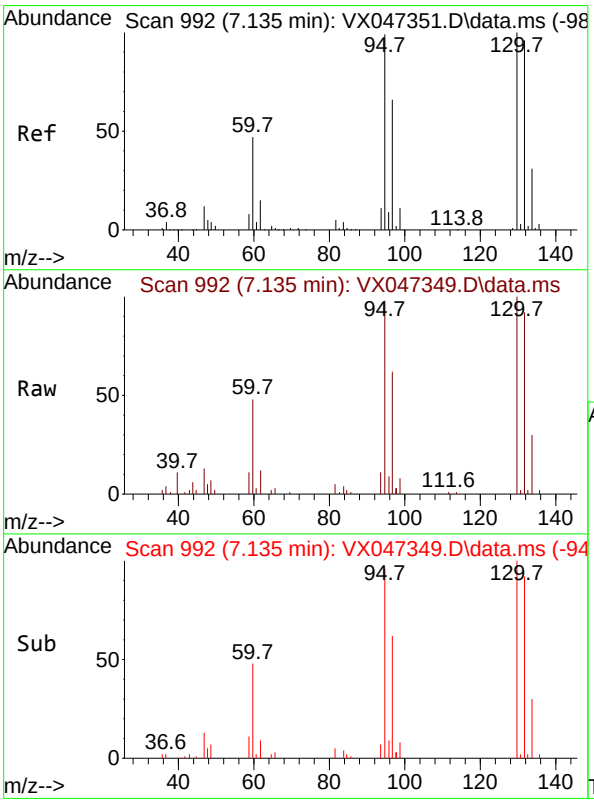
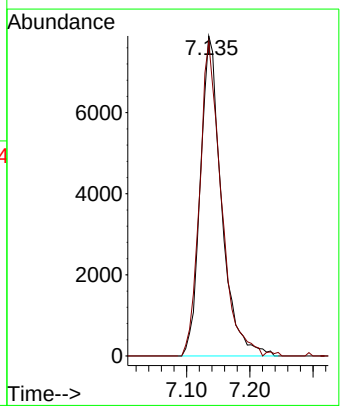
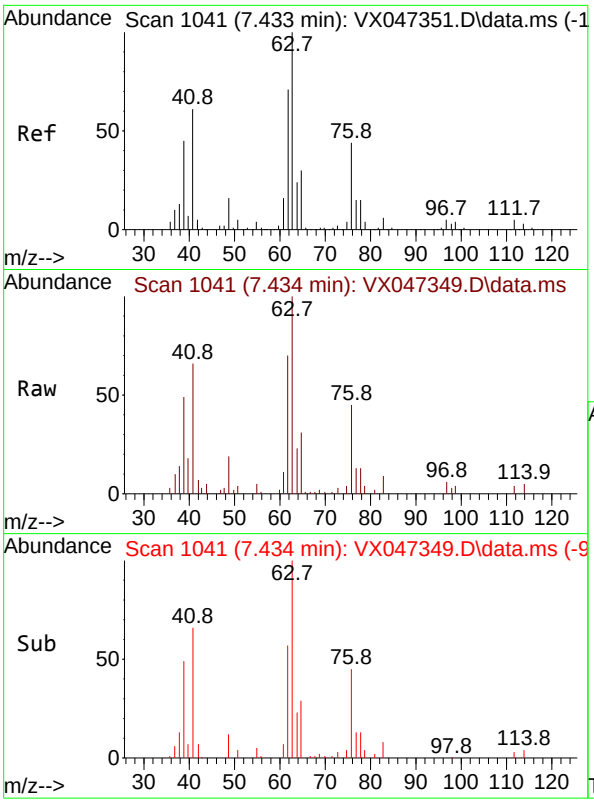


#44
Trichloroethene
Concen: 4.884 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:130 Resp: 18386

Ion	Ratio	Lower	Upper
130	100		
95	98.2	0.0	198.6

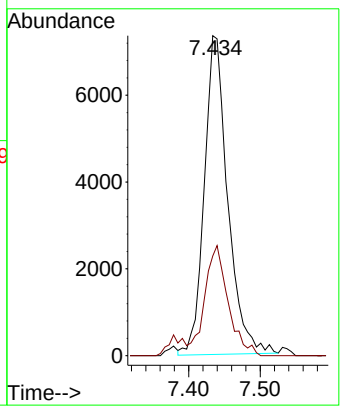




#45
1,2-Dichloropropane
Concen: 4.542 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 63 Resp: 1672

Ion	Ratio	Lower	Upper
63	100		
65	32.3	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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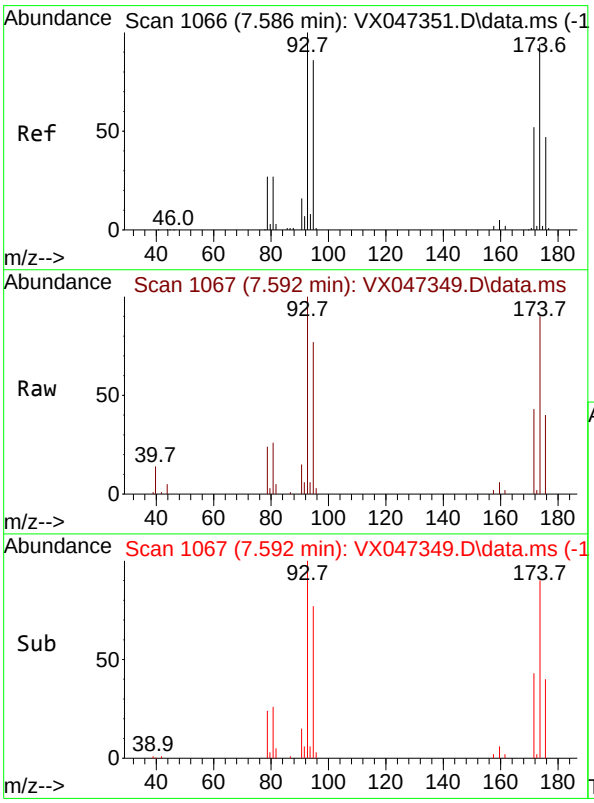
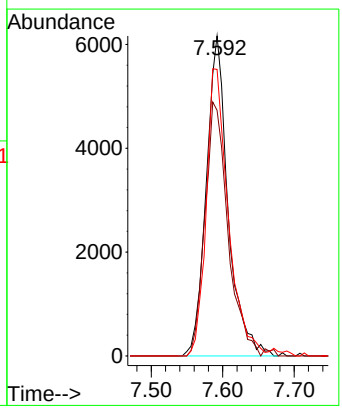
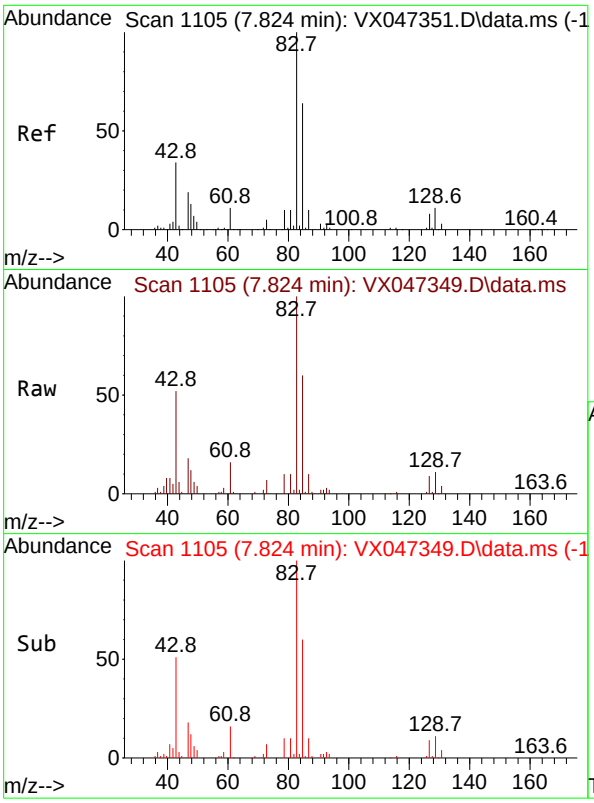


#46
Dibromomethane
Concen: 4.885 ug/l
RT: 7.592 min Scan# 1067
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 93 Resp: 13062

Ion	Ratio	Lower	Upper
93	100		
95	83.7	68.0	102.0
174	91.2	75.8	113.6

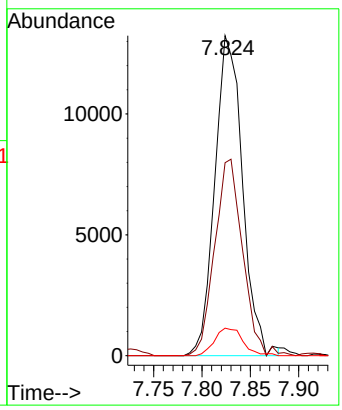




#47
Bromodichloromethane
Concen: 4.741 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 83 Resp: 2628

Ion	Ratio	Lower	Upper
83	100		
85	59.8	51.0	76.6
127	8.4	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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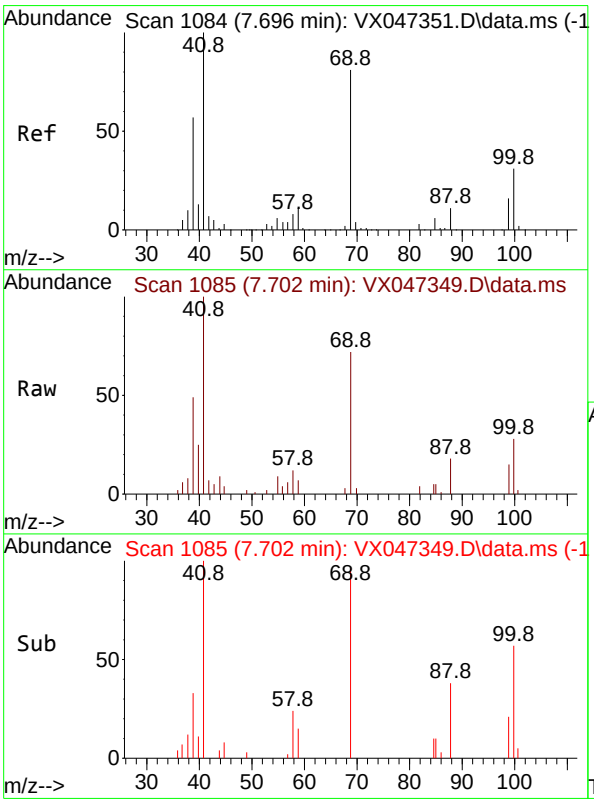
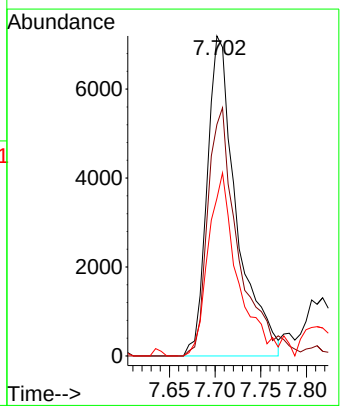
Supervised By :Mahesh Dadoda 08/19/2025

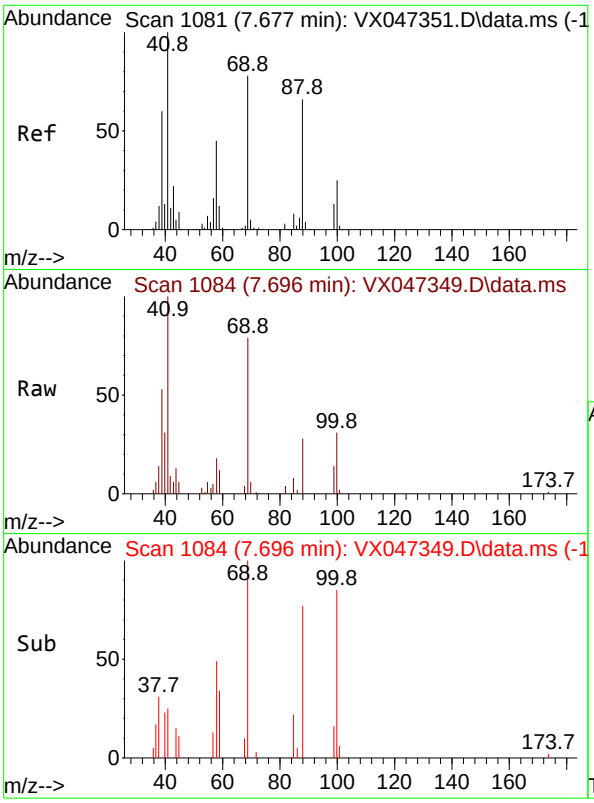


#48
Methyl methacrylate
Concen: 4.222 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 41 Resp: 16053

Ion	Ratio	Lower	Upper
41	100		
69	81.0	65.0	97.4
39	58.8	45.7	68.5

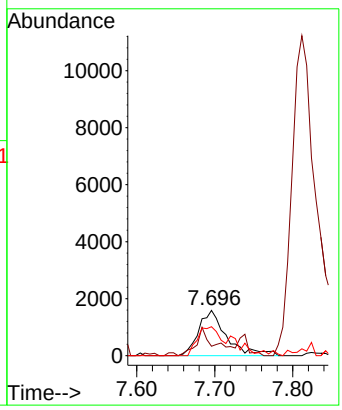




#49
1,4-Dioxane
Concen: 109.635 ug/l m
RT: 7.696 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 88 Resp: 395

Ion	Ratio	Lower	Upper
88	100		
43	36.5	32.4	48.6
58	52.5	56.9	85.3#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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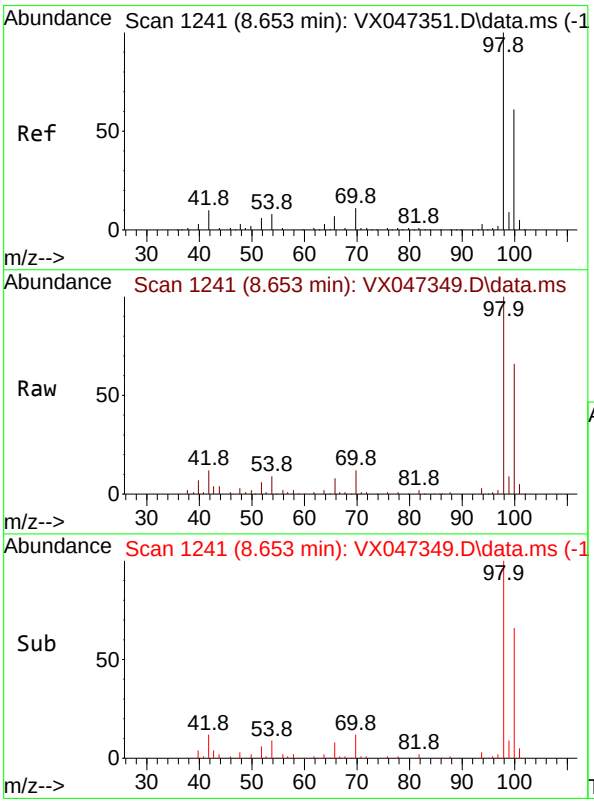
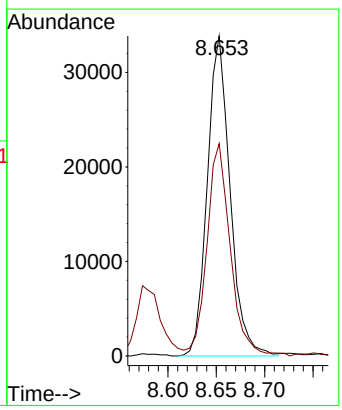
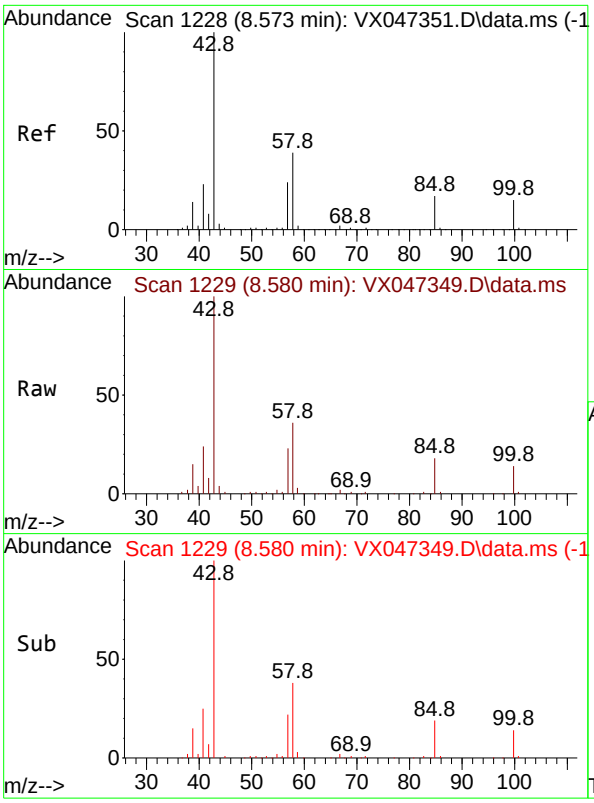


#50
Toluene-d8
Concen: 4.987 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 98 Resp: 55469

Ion	Ratio	Lower	Upper
98	100		
100	68.1	53.9	80.9

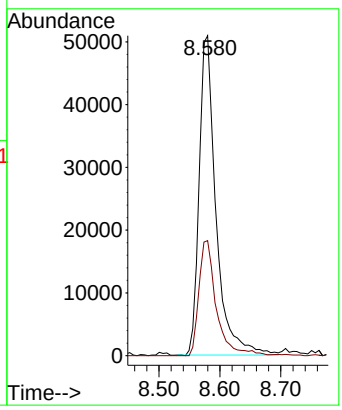




#51
4-Methyl-2-Pentanone
Concen: 23.221 ug/l
RT: 8.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 43 Resp: 9789

Ion	Ratio	Lower	Upper
43	100		
58	37.3	31.2	46.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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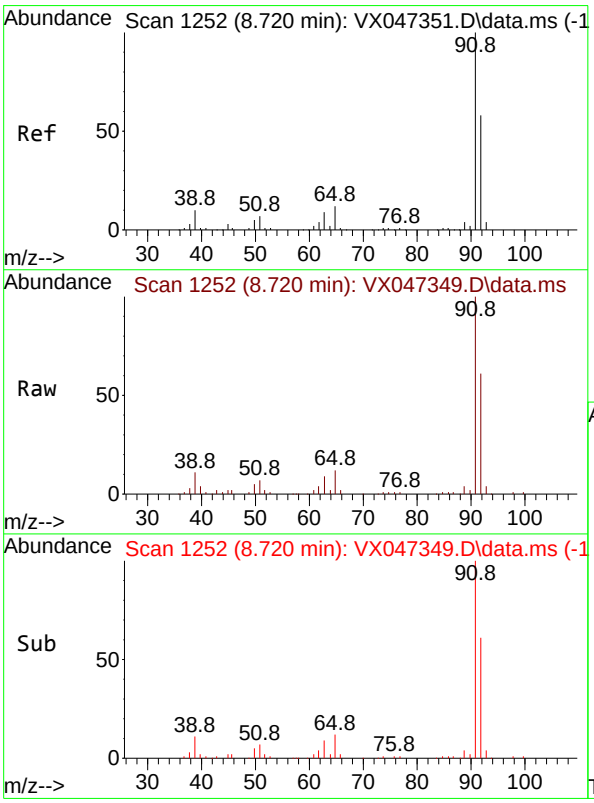
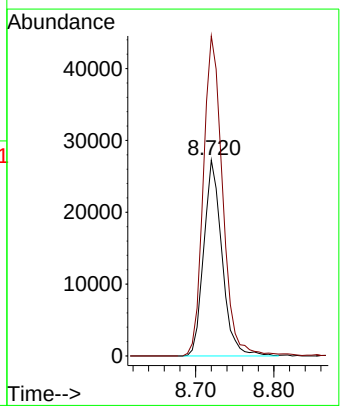
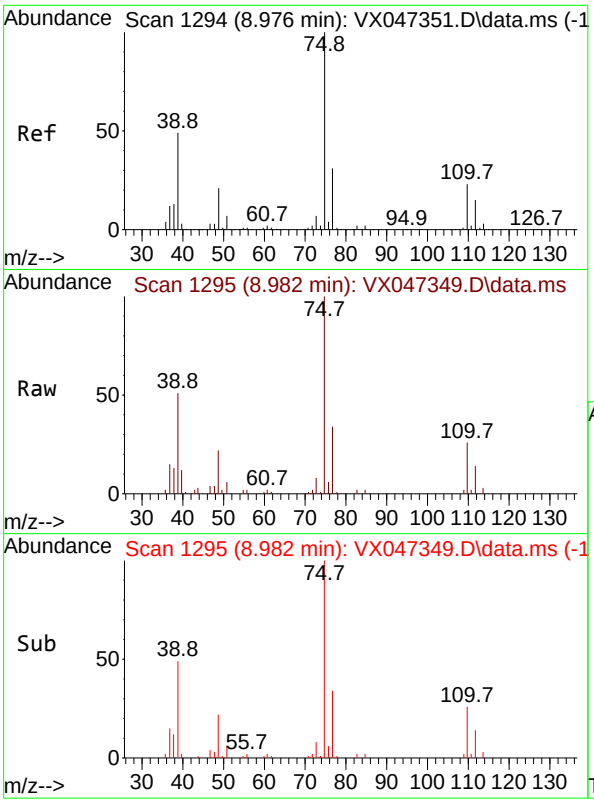


#52
Toluene
Concen: 4.854 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 92 Resp: 44099

Ion	Ratio	Lower	Upper
92	100		
91	173.0	136.3	204.5

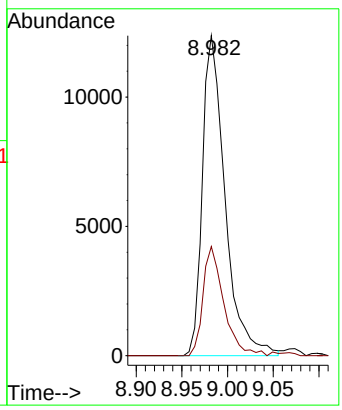




#53
t-1,3-Dichloropropene
Concen: 4.403 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 75 Resp: 2130

Ion	Ratio	Lower	Upper
75	100		
77	34.1	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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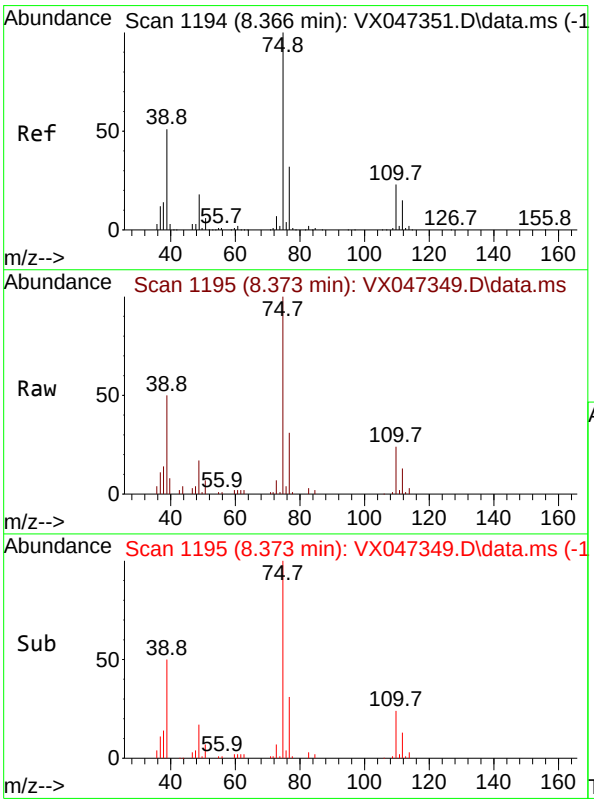
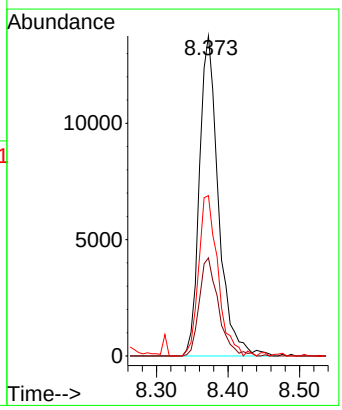
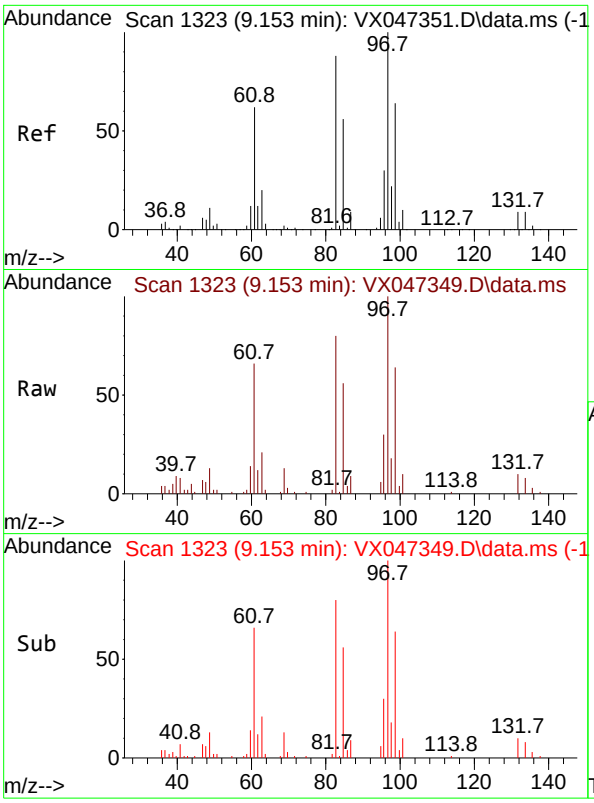


#54
cis-1,3-Dichloropropene
Concen: 4.652 ug/l
RT: 8.373 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 75 Resp: 25475

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.6	38.4
39	57.4	40.9	61.3

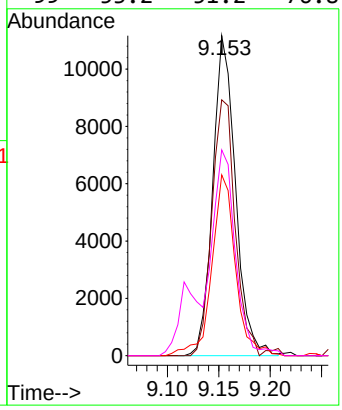




#55
1,1,2-Trichloroethane
Concen: 4.972 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 97 Resp: 1715

Ion	Ratio	Lower	Upper
97	100		
83	67.7	70.6	106.0
85	47.4	44.7	67.1
99	53.2	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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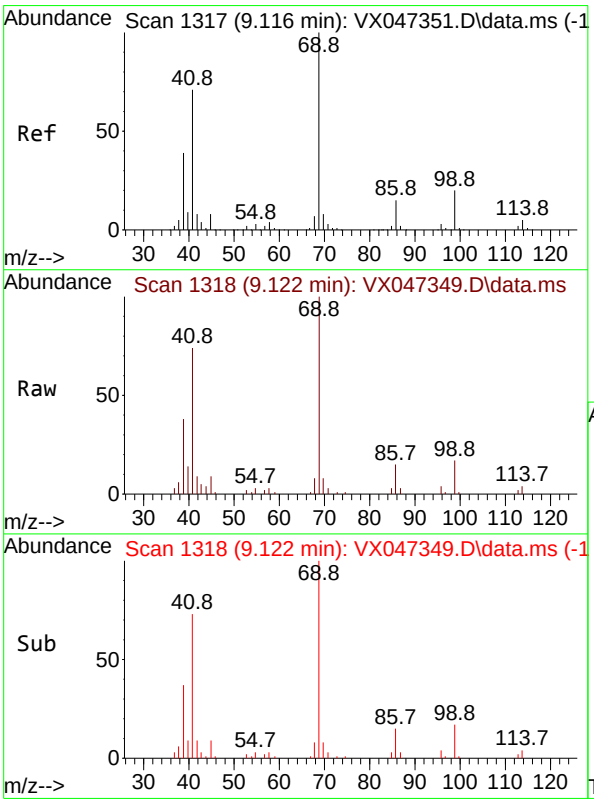
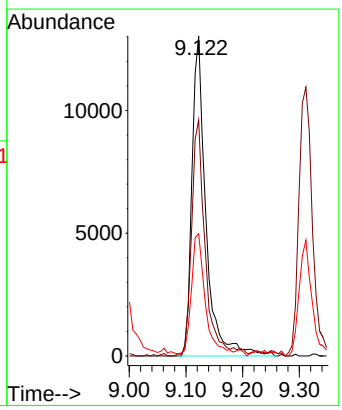
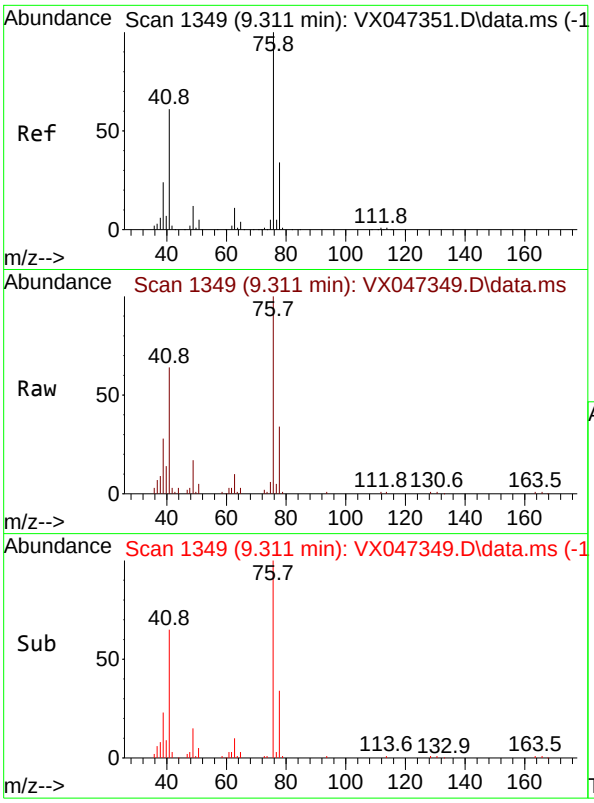


#56
Ethyl methacrylate
Concen: 4.397 ug/l
RT: 9.122 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 69 Resp: 22362

Ion	Ratio	Lower	Upper
69	100		
41	72.2	55.3	82.9
39	36.4	30.2	45.2

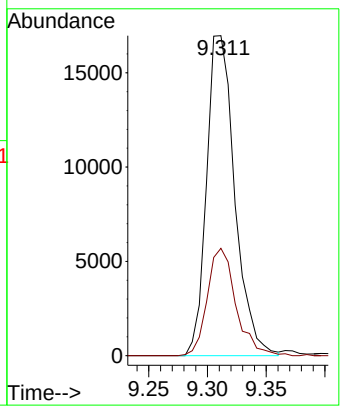




#57
1,3-Dichloropropane
Concen: 4.821 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 76 Resp: 2833

Ion	Ratio	Lower	Upper
76	100		
78	34.0	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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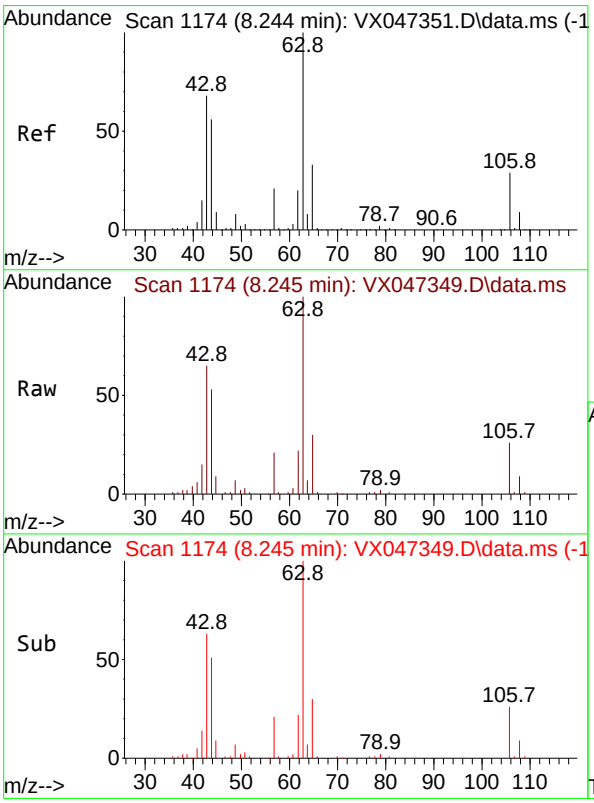
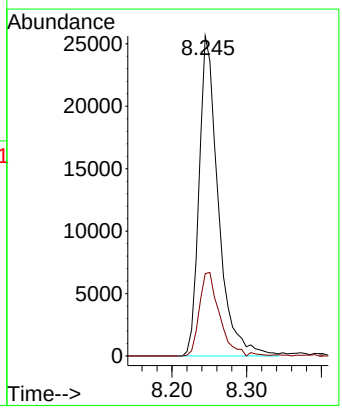
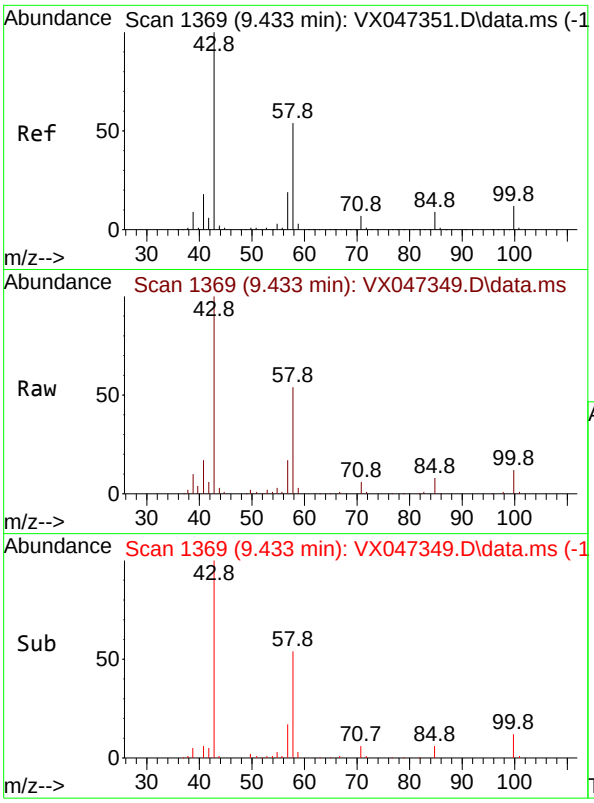


#58
2-Chloroethyl Vinyl ether
Concen: 26.559 ug/l
RT: 8.245 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 63 Resp: 45735

Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.8	34.2

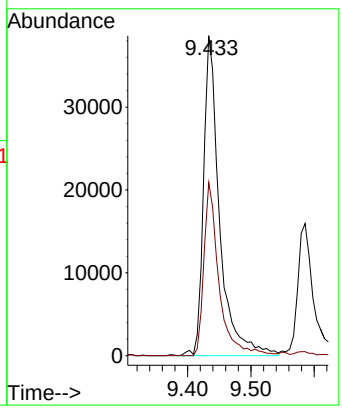




#59
2-Hexanone
Concen: 23.375 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 43 Resp: 6816

Ion	Ratio	Lower	Upper
43	100		
58	50.9	26.9	80.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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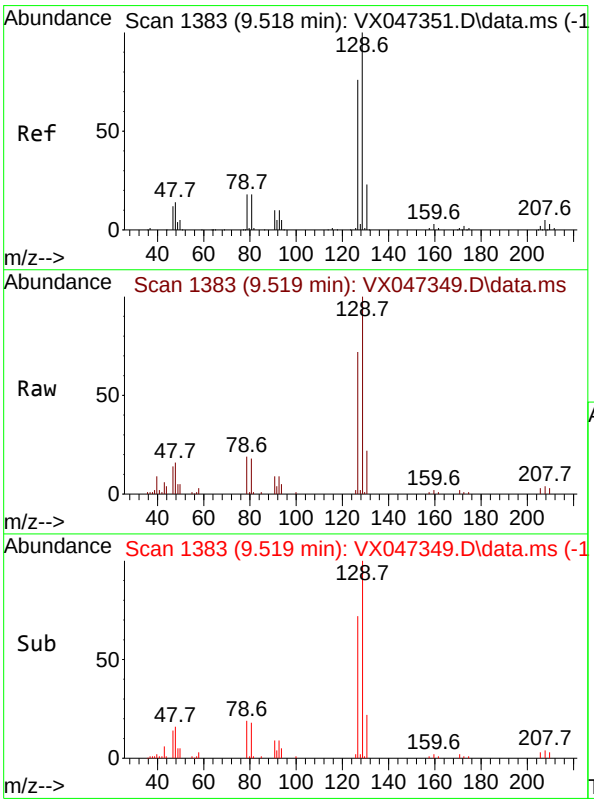
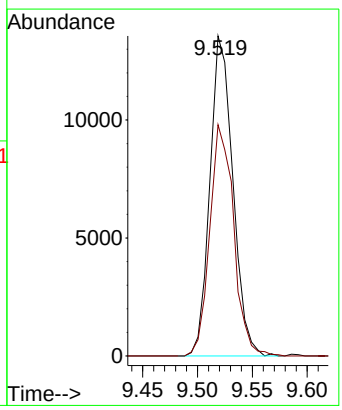
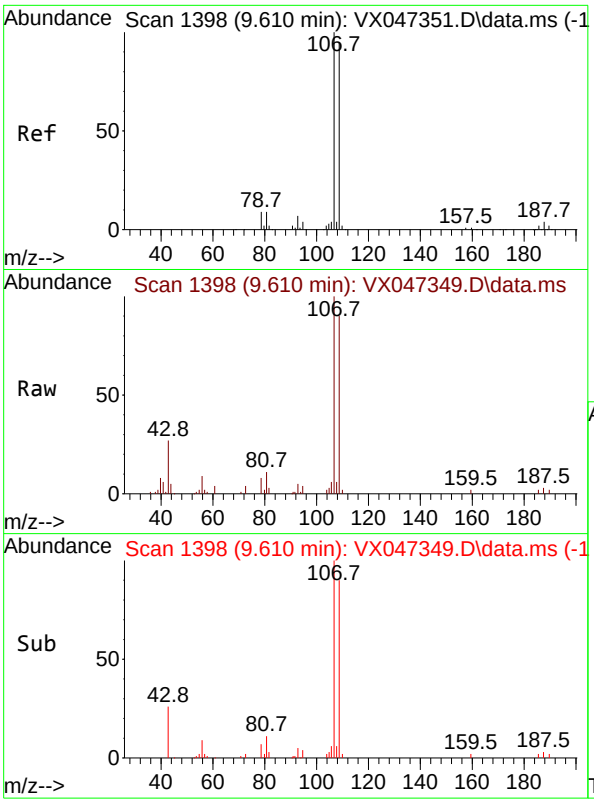


#60
Dibromochloromethane
Concen: 4.820 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:129 Resp: 19760

Ion	Ratio	Lower	Upper
129	100		
127	75.1	38.9	116.6

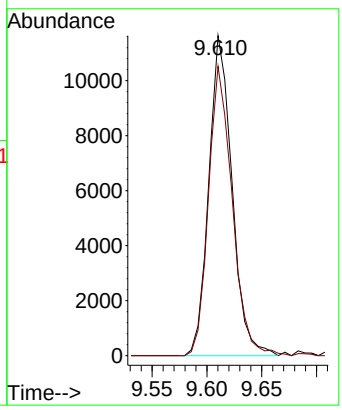




#61
1,2-Dibromoethane
Concen: 4.823 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:107 Resp: 1715

Ion	Ratio	Lower	Upper
107	100		
109	92.2	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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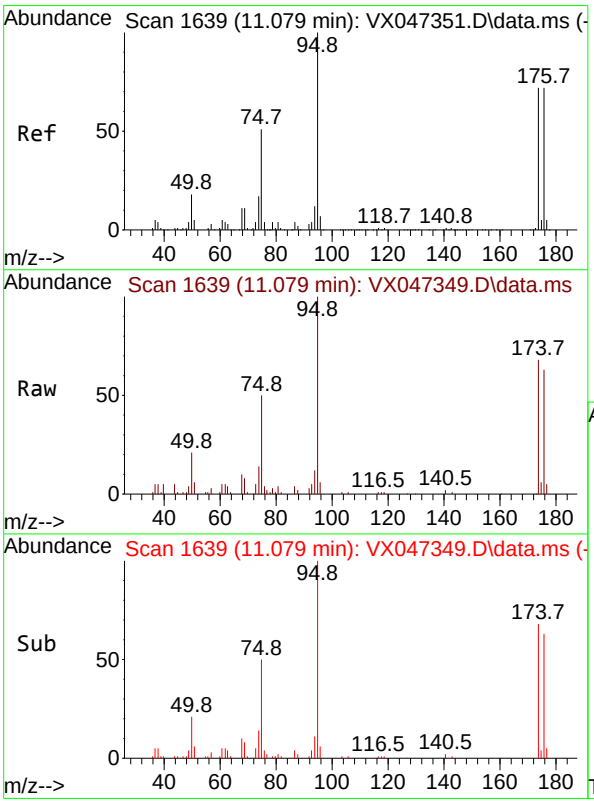
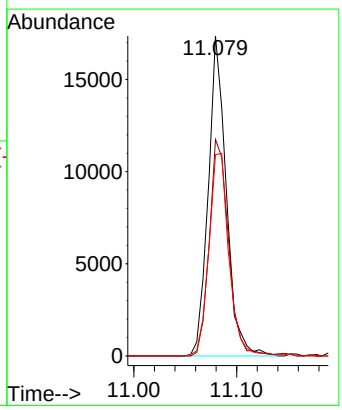
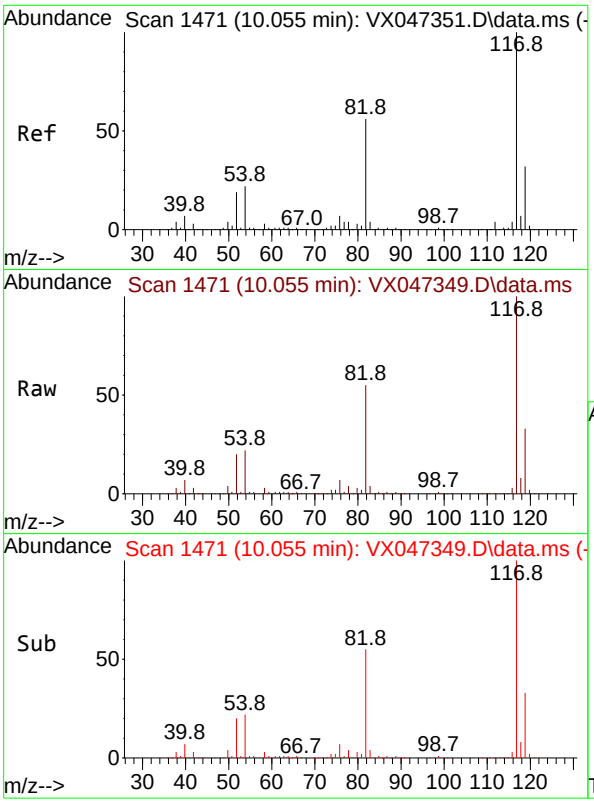


#62
4-Bromofluorobenzene
Concen: 5.150 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 95 Resp: 21138

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	148.0
176	70.5	0.0	145.4

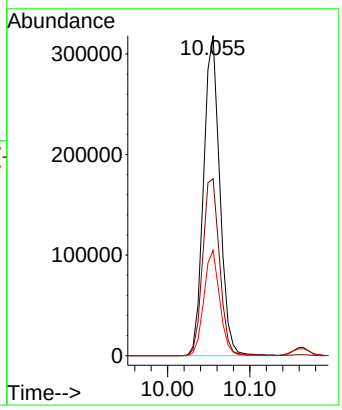




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:117 Resp: 43459

Ion	Ratio	Lower	Upper
117	100		
82	55.3	45.0	67.4
119	33.0	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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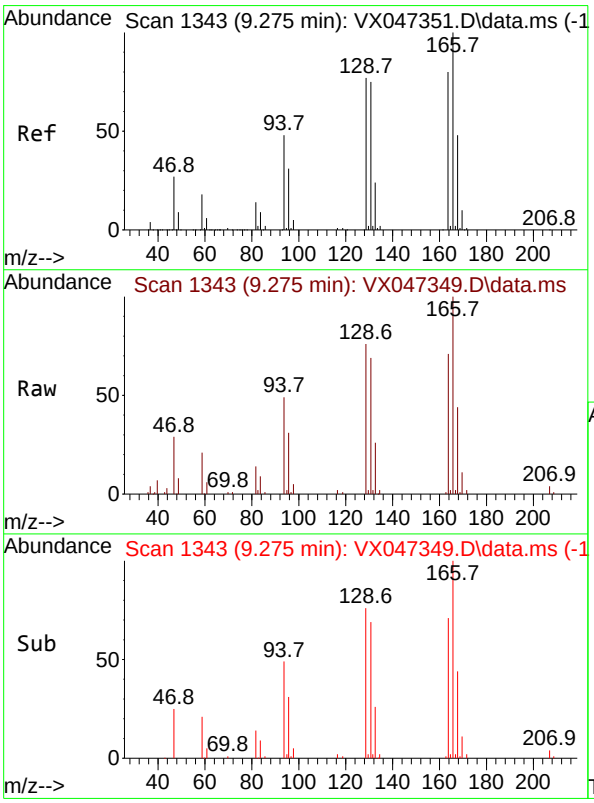
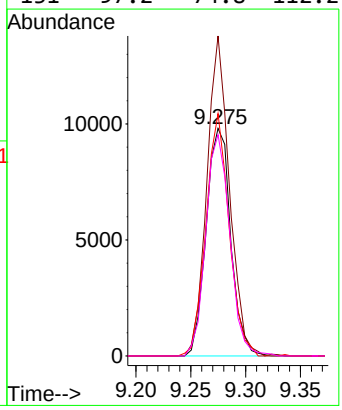
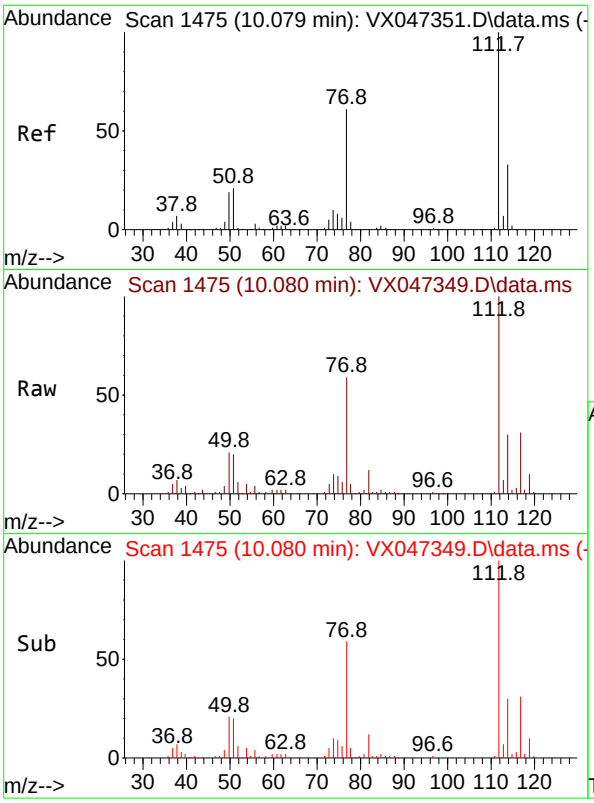


#64
Tetrachloroethene
Concen: 4.856 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:164 Resp: 15266

Ion	Ratio	Lower	Upper
164	100		
166	140.7	100.3	150.5
129	106.6	77.7	116.5
131	97.2	74.8	112.2

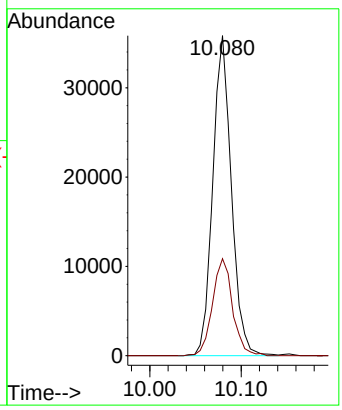




#65
Chlorobenzene
Concen: 4.896 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:112 Resp: 5055

Ion	Ratio	Lower	Upper
112	100		
114	30.3	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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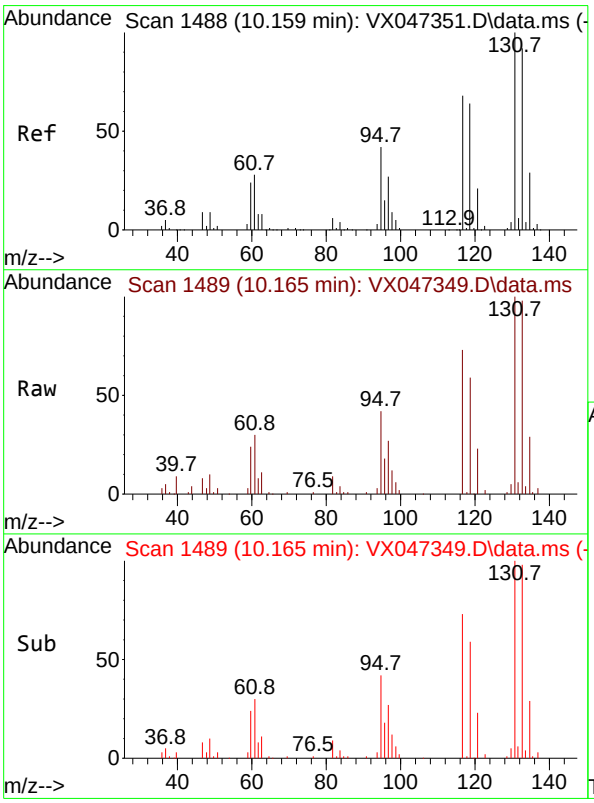
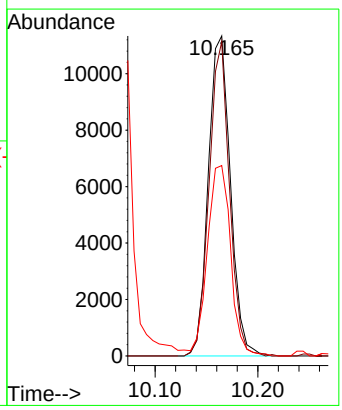
Supervised By :Mahesh Dadoda 08/19/2025

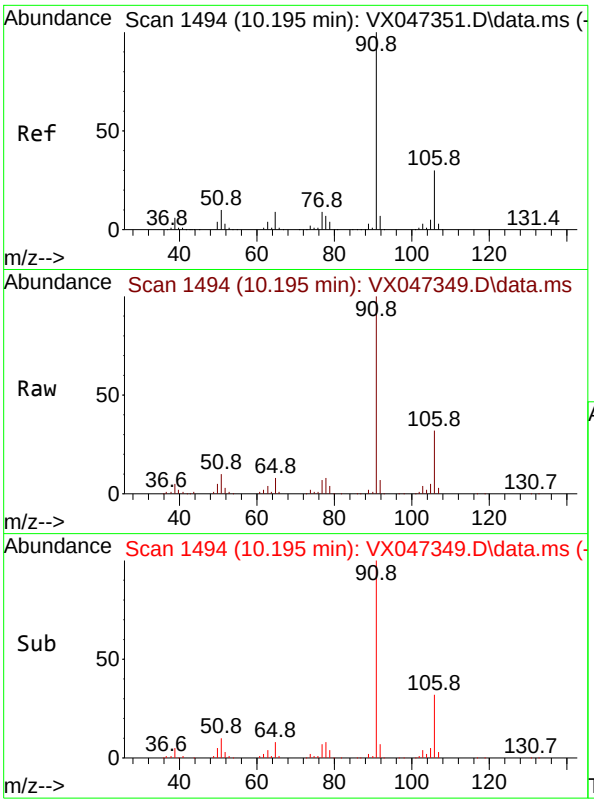


#66
1,1,1,2-Tetrachloroethane
Concen: 4.839 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:131 Resp: 16894

Ion	Ratio	Lower	Upper
131	100		
133	90.8	47.6	142.9
119	62.5	32.3	96.8

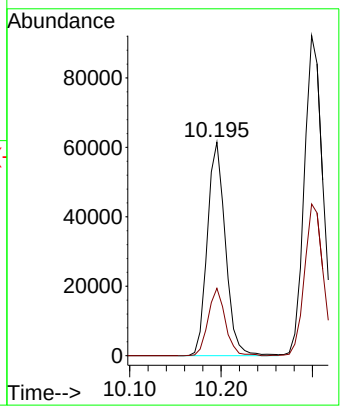




#67
Ethyl Benzene
Concen: 4.746 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 91 Resp: 8436

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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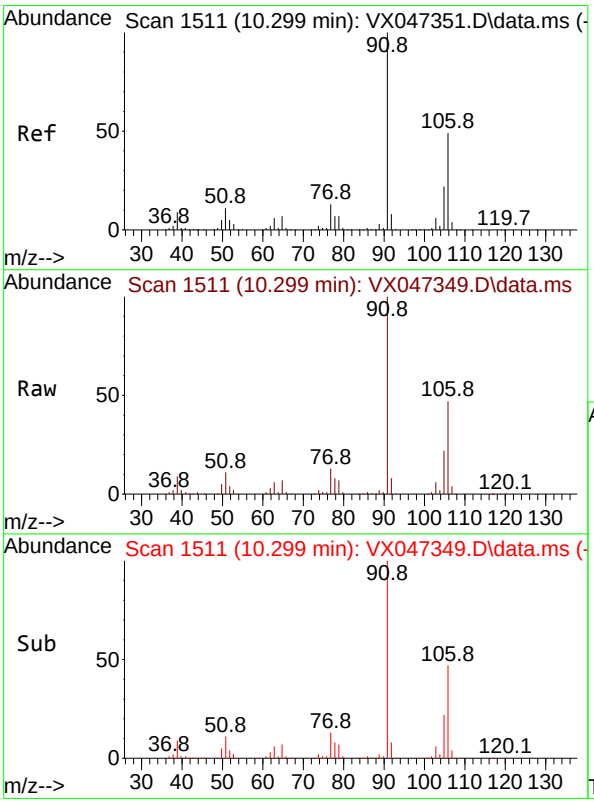
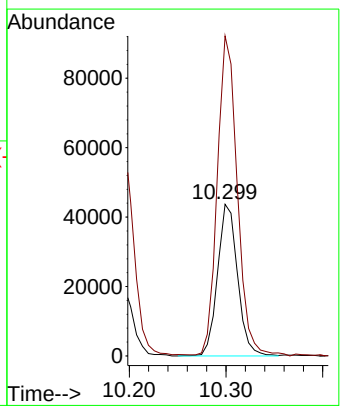
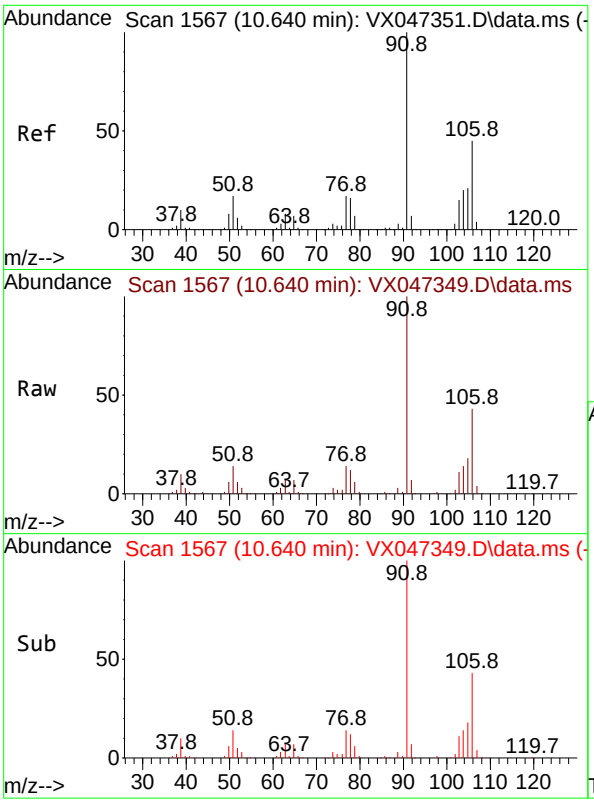


#68
m/p-Xylenes
Concen: 9.462 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:106 Resp: 62714

Ion	Ratio	Lower	Upper
106	100		
91	211.3	164.7	247.1

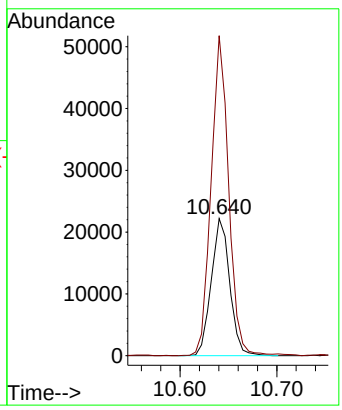




#69
o-Xylene
Concen: 4.623 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:106 Resp: 2948

Ion	Ratio	Lower	Upper
106	100		
91	221.8	110.6	331.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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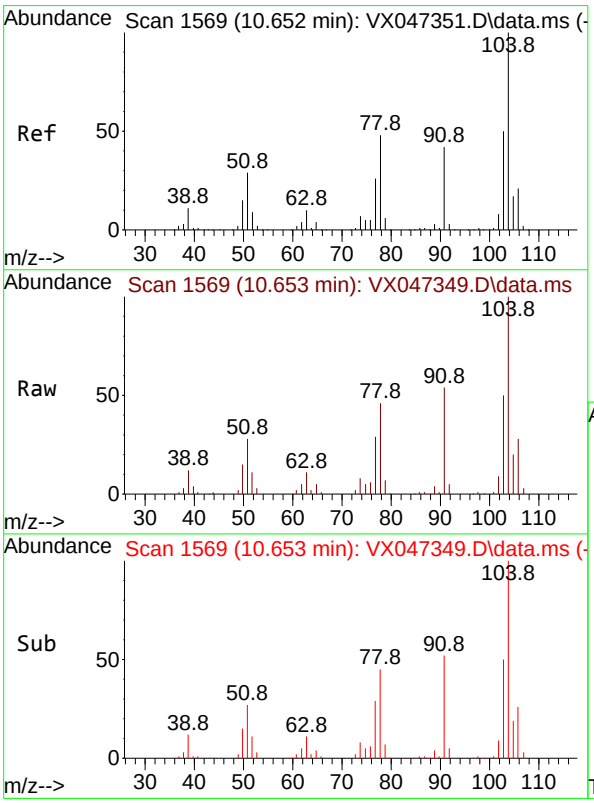
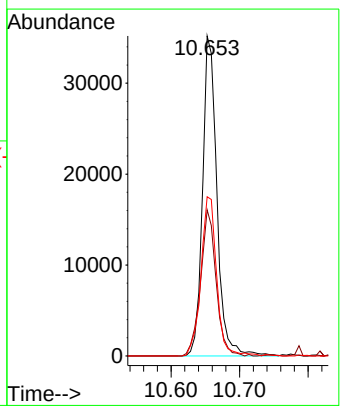
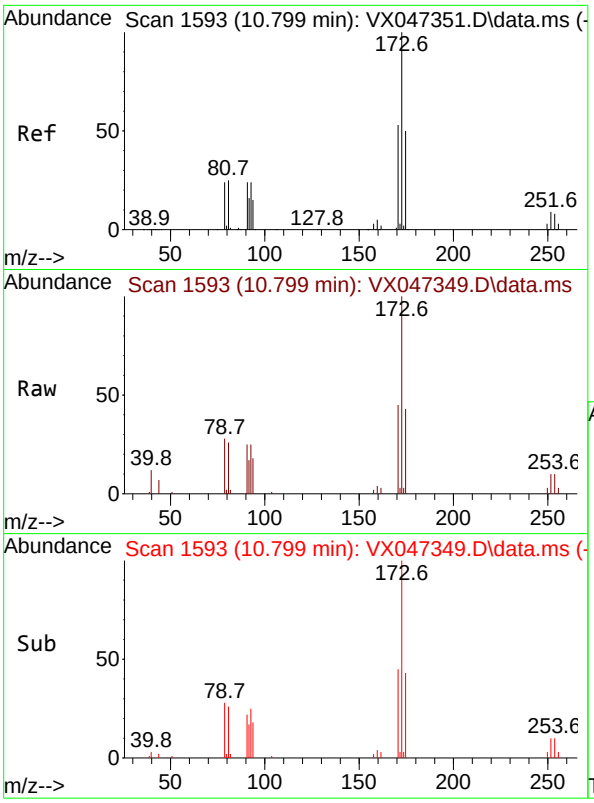


#70
Styrene
Concen: 4.783 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:104 Resp: 51543

Ion	Ratio	Lower	Upper
104	100		
78	49.1	41.8	62.8
103	54.2	43.6	65.4

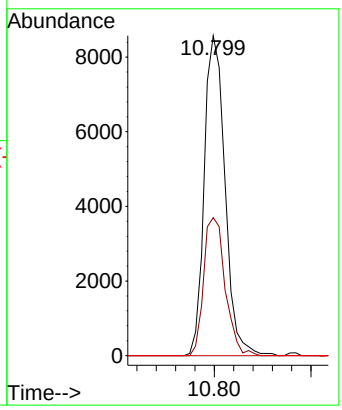




#71
Bromoform
Concen: 4.869 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:173 Resp: 1276

Ion	Ratio	Lower	Upper
173	100		
175	44.7	24.4	73.4
254	0.0	0.1	0.1



Instrument :
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ClientSampleId :
VSTDICC005

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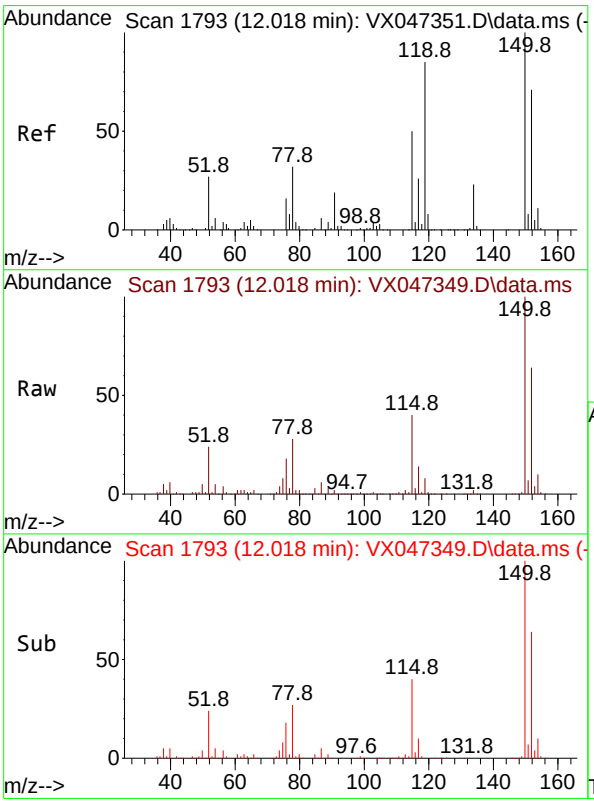
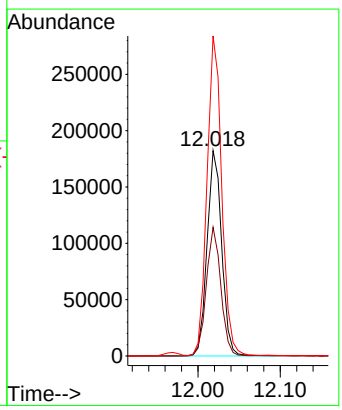
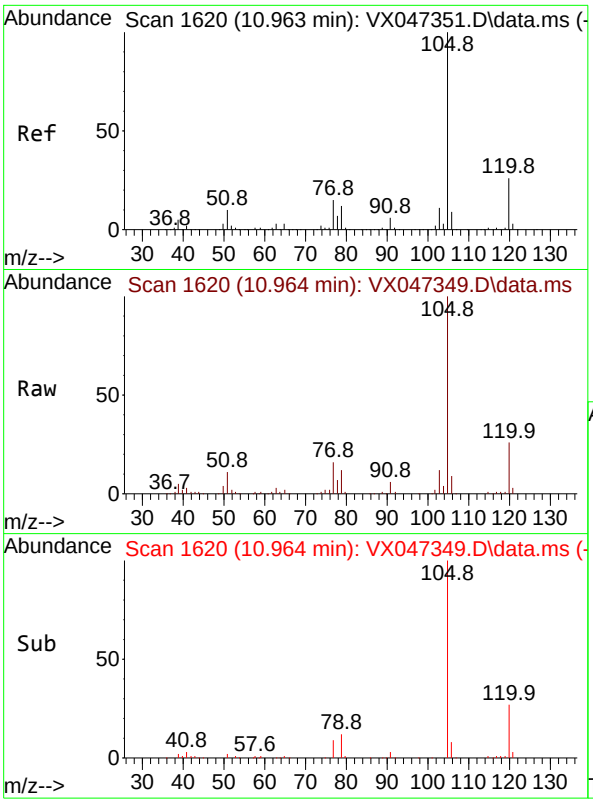


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:152 Resp: 224159

Ion	Ratio	Lower	Upper
152	100		
115	63.0	44.6	133.8
150	156.6	0.0	349.8

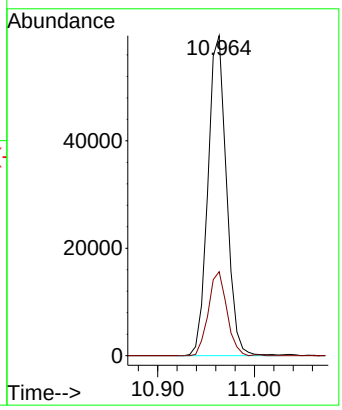




#73
Isopropylbenzene
Concen: 4.533 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:105 Resp: 7951

Ion	Ratio	Lower	Upper
105	100		
120	26.3	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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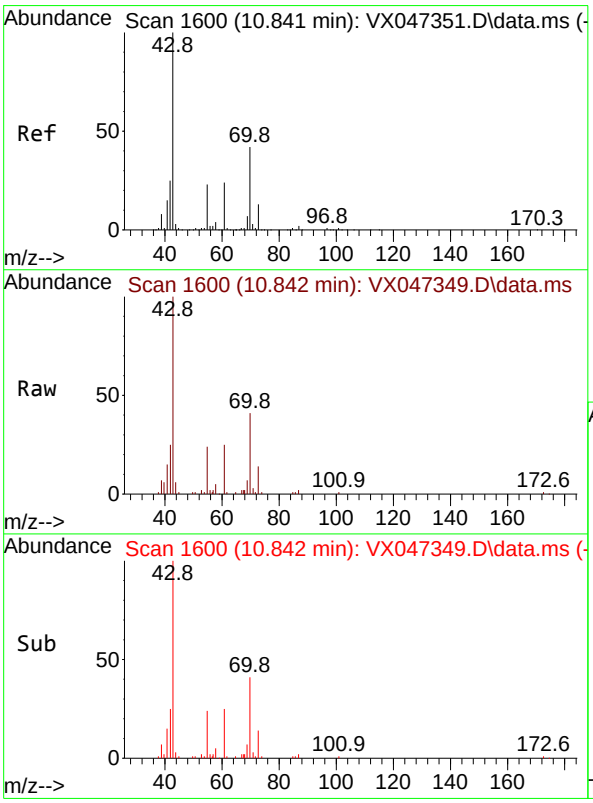
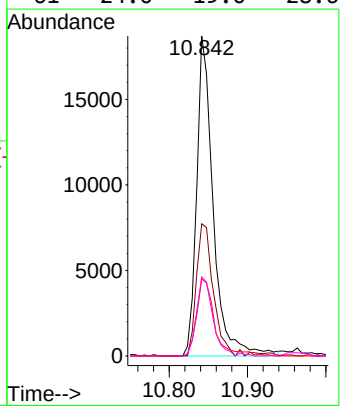
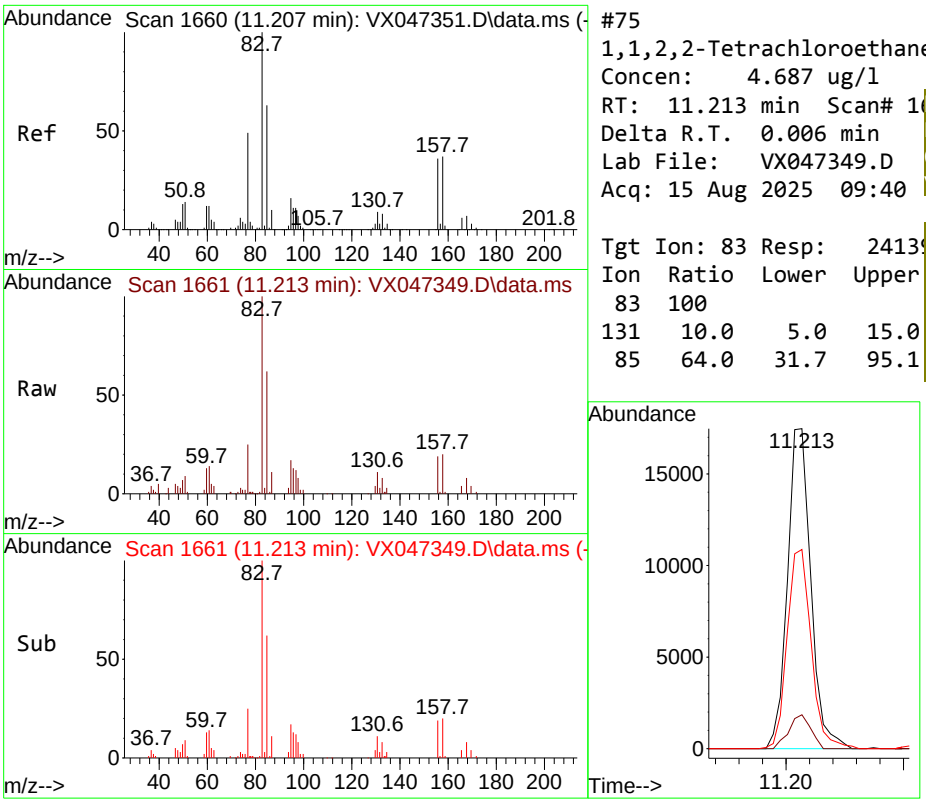


#74
N-amyl acetate
Concen: 4.138 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 43 Resp: 27565

Ion	Ratio	Lower	Upper
43	100		
70	41.5	33.1	49.7
55	26.0	19.0	28.6
61	24.0	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 4.687 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 83 Resp: 2413

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	15.0
85	64.0	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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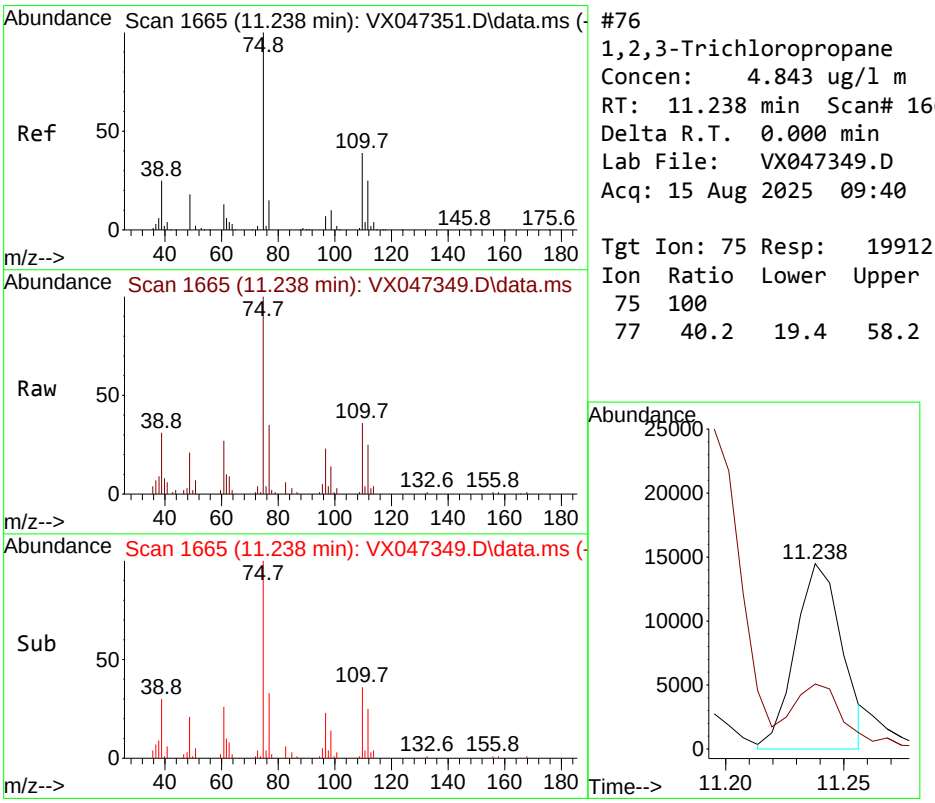
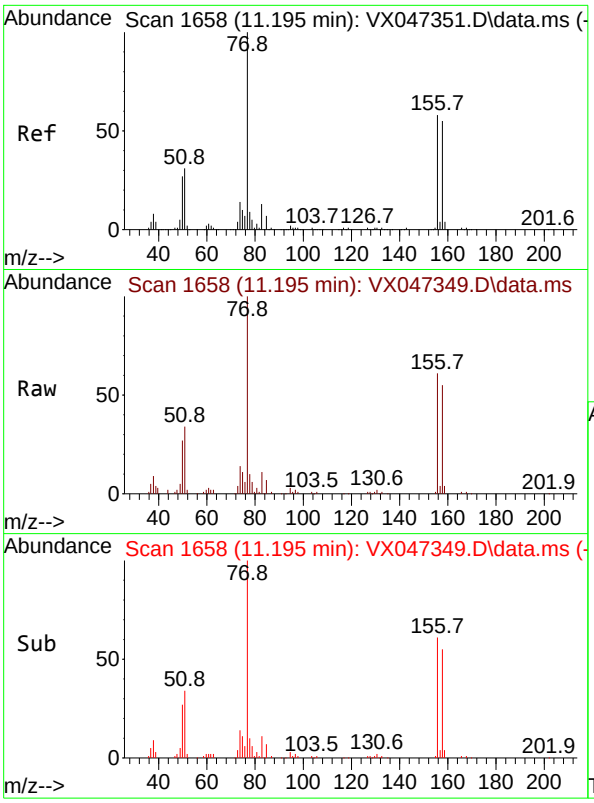


#76
1,2,3-Trichloropropane
Concen: 4.843 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 75 Resp: 19912

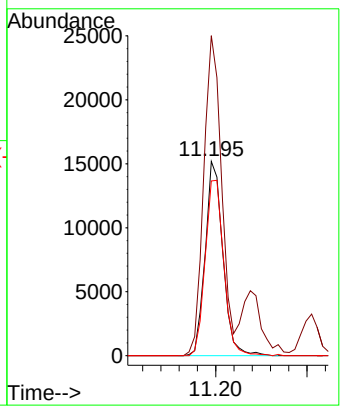
Ion	Ratio	Lower	Upper
75	100		
77	40.2	19.4	58.2



#77
Bromobenzene
Concen: 4.758 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:156 Resp: 2038

Ion	Ratio	Lower	Upper
156	100		
77	165.6	86.3	258.9
158	94.8	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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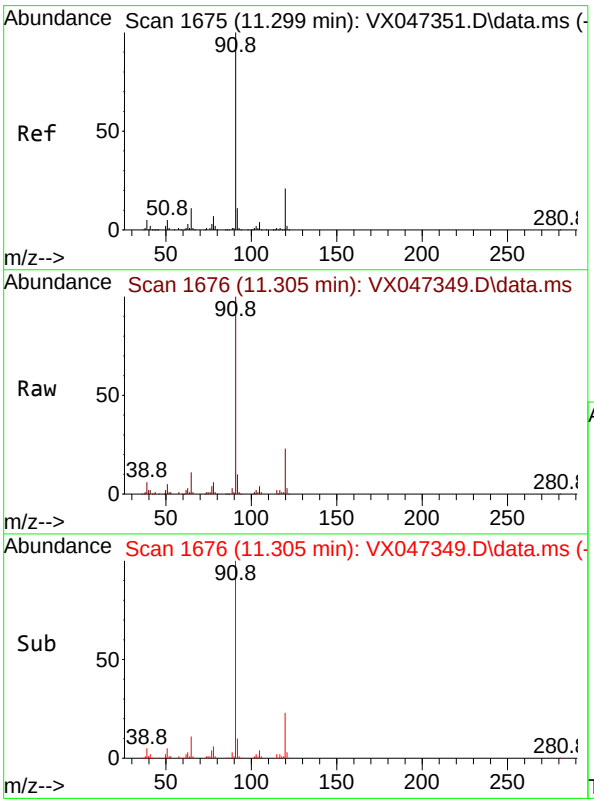
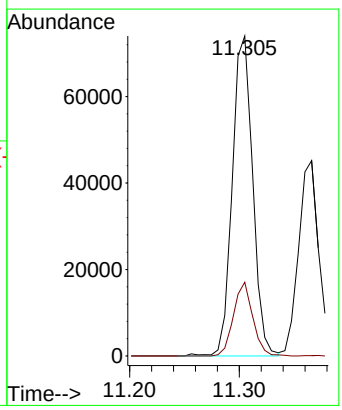
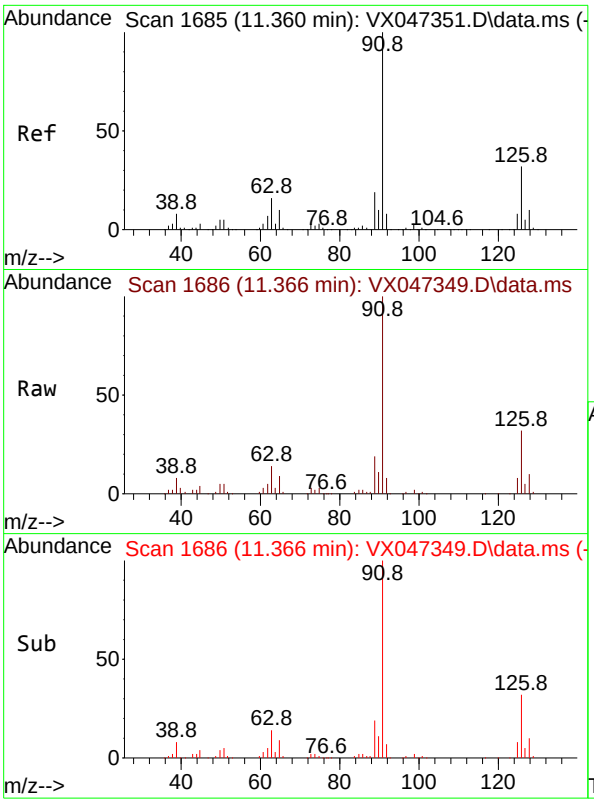


#78
n-propylbenzene
Concen: 4.561 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 91 Resp: 95550

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.0	33.0

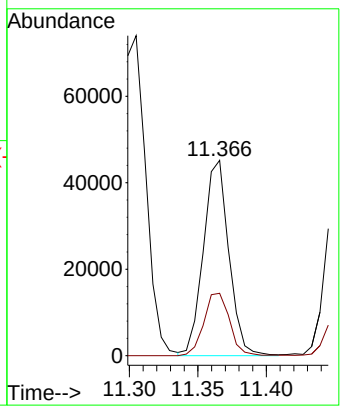




#79
2-Chlorotoluene
Concen: 4.623 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 91 Resp: 5854

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.7	50.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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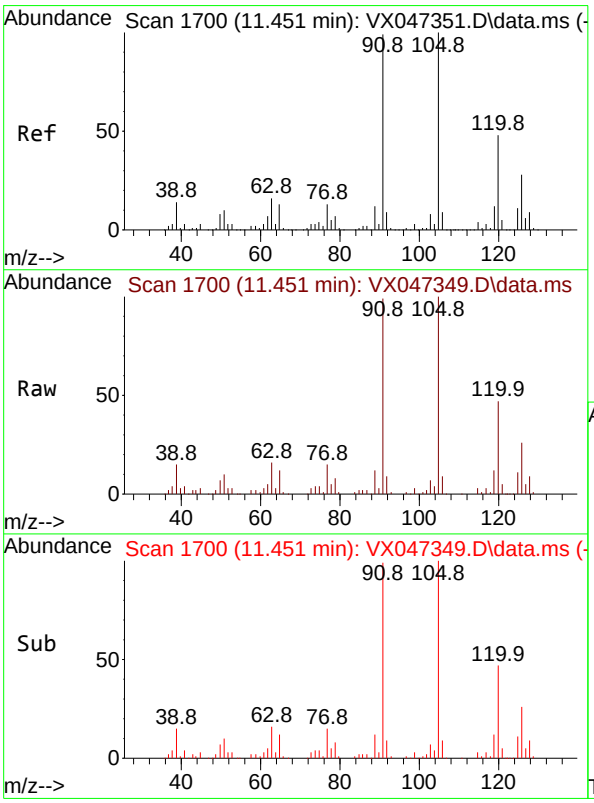
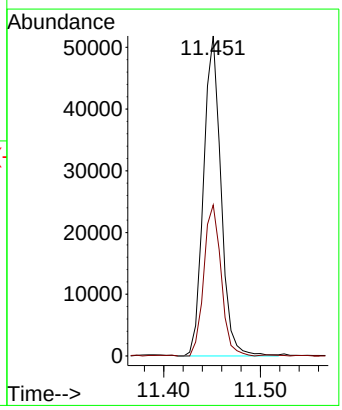
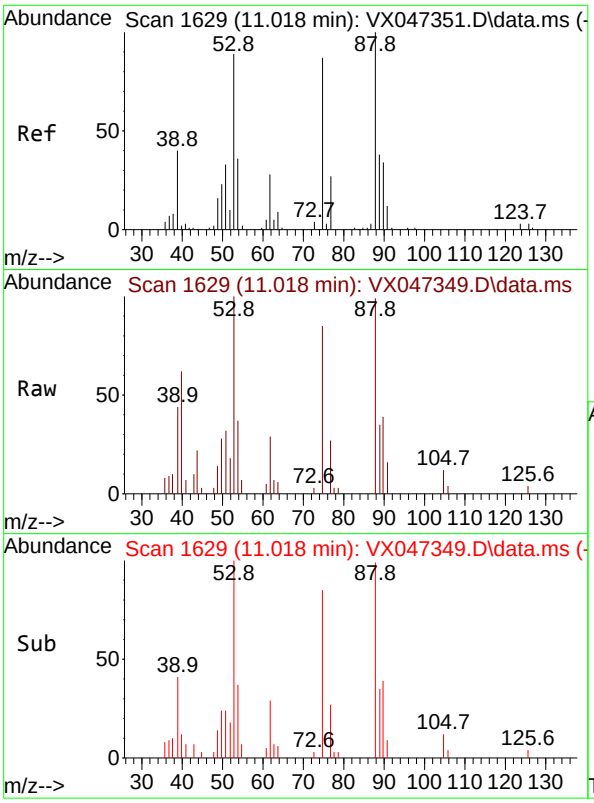


#80
1,3,5-Trimethylbenzene
Concen: 4.518 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:105 Resp: 65210

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.9	71.7

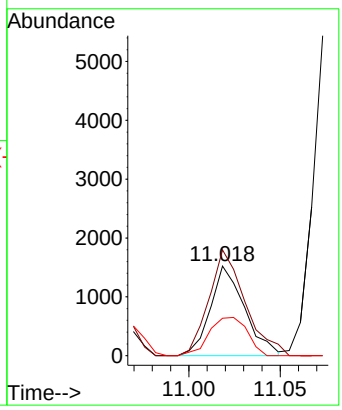




#81
trans-1,4-Dichloro-2-butene
Concen: 9.640 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 75 Resp: 199

Ion	Ratio	Lower	Upper
75	100		
53	124.7	85.2	127.8
89	47.4	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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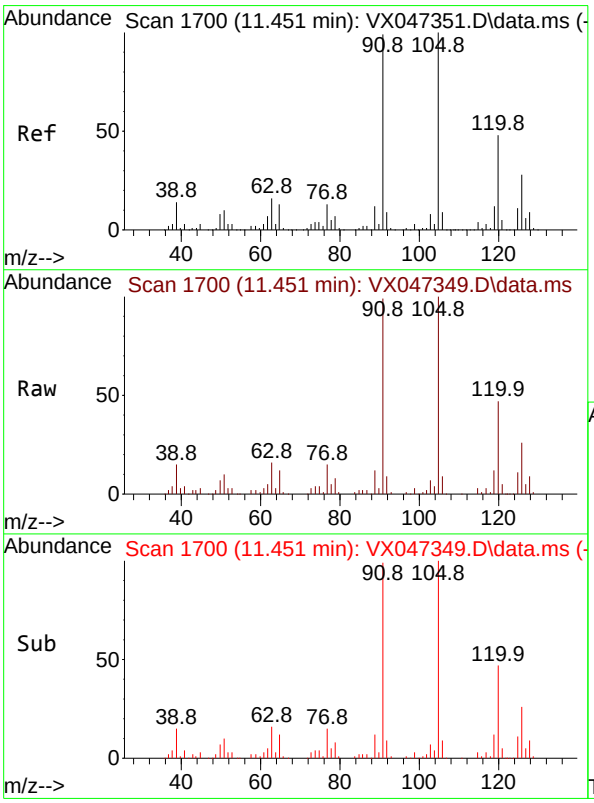
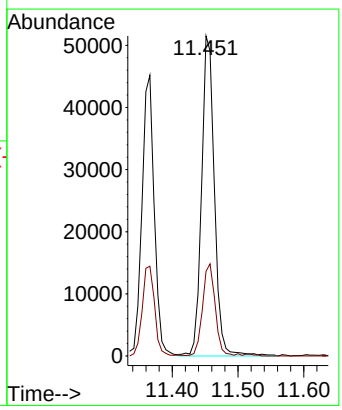
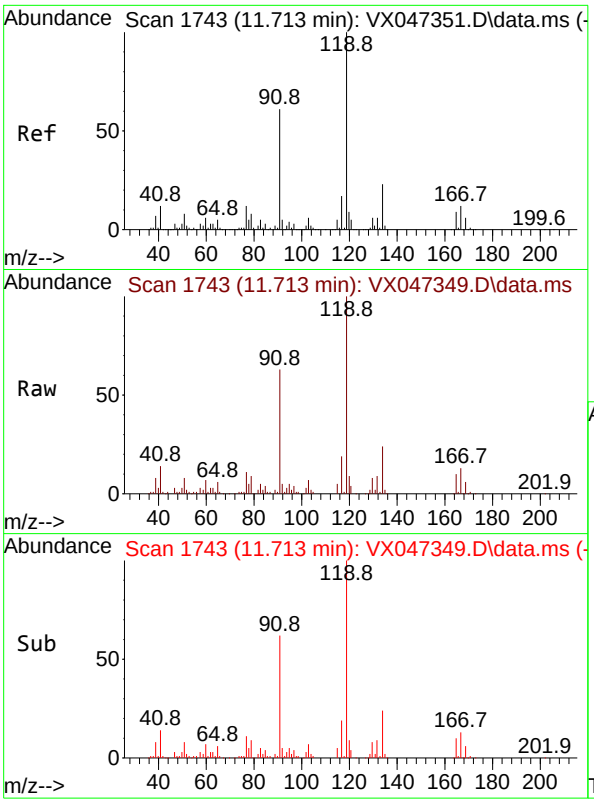


#82
4-Chlorotoluene
Concen: 4.697 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 91 Resp: 70117

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.4	43.0

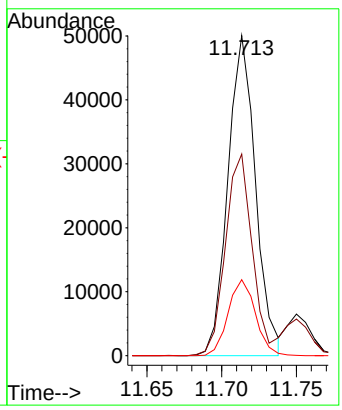




#83
tert-Butylbenzene
Concen: 4.463 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:119 Resp: 6426

Ion	Ratio	Lower	Upper
119	100		
91	60.5	29.1	87.4
134	23.6	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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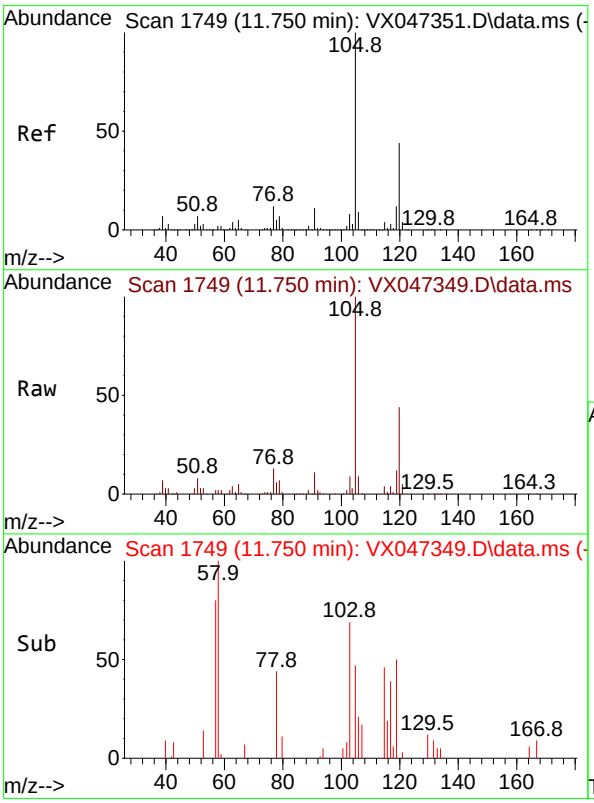
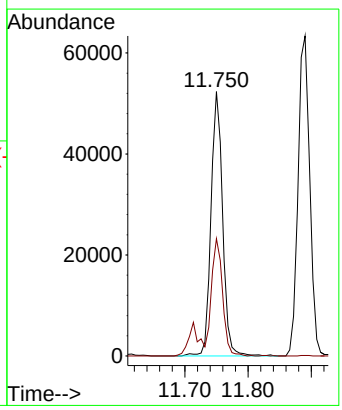
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

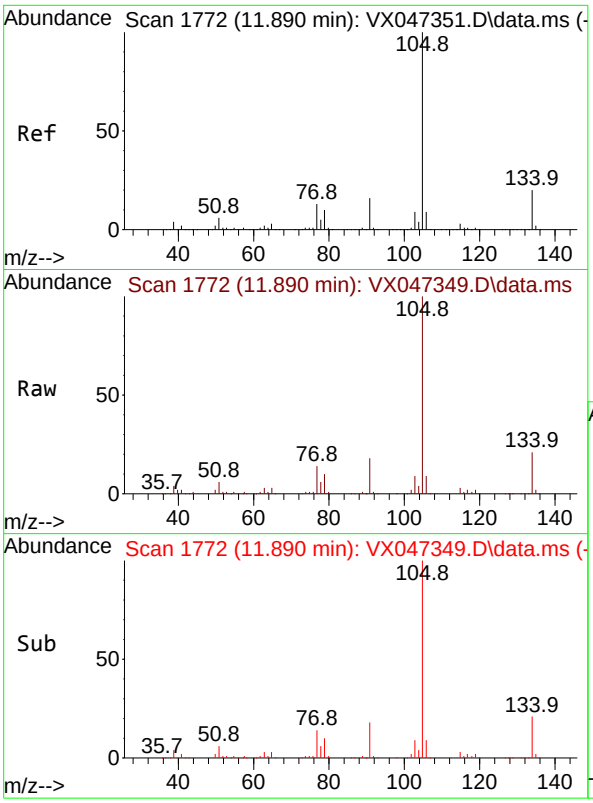


#84
1,2,4-Trimethylbenzene
Concen: 4.644 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:105 Resp: 67032

Ion	Ratio	Lower	Upper
105	100		
120	42.2	21.9	65.7

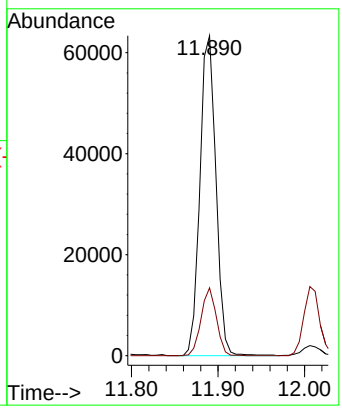




#85
sec-Butylbenzene
Concen: 4.559 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:105 Resp: 8137

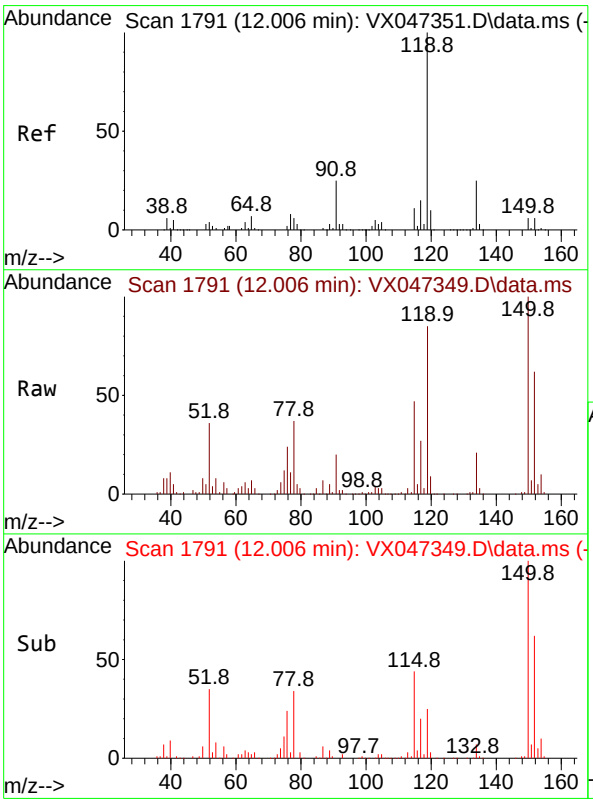
Ion	Ratio	Lower	Upper
105	100		
134	20.3	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

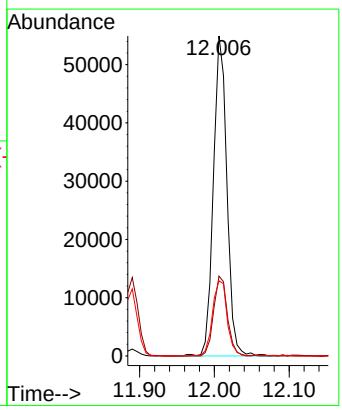
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

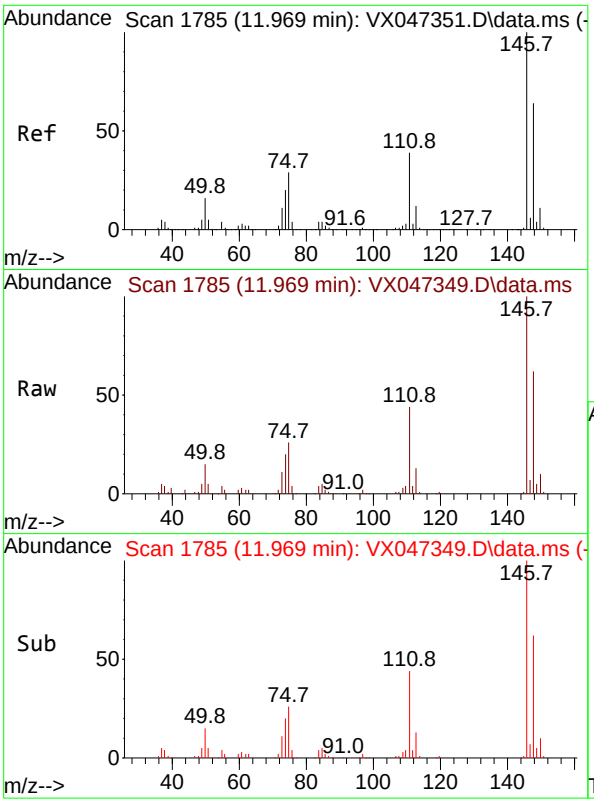


#86
p-Isopropyltoluene
Concen: 4.559 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:119 Resp: 68849

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.8	38.4
91	25.4	12.4	37.4

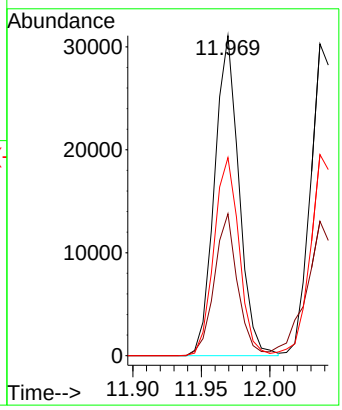




#87
1,3-Dichlorobenzene
Concen: 4.709 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:146 Resp: 3853

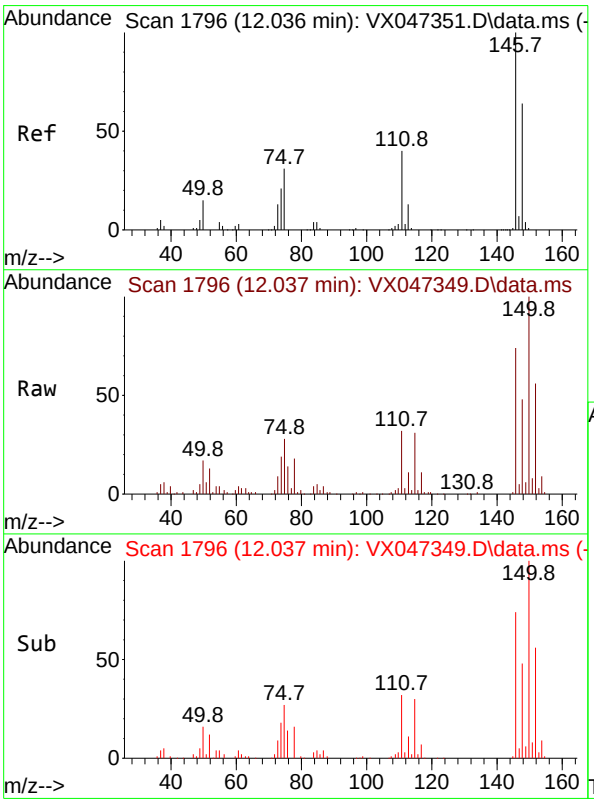
Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.6	61.8
148	63.6	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

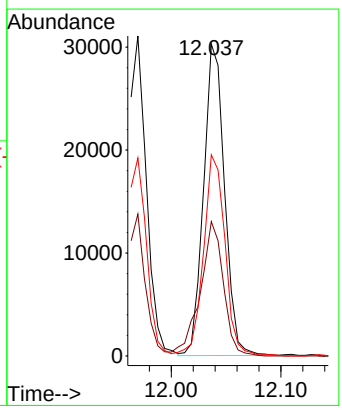
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

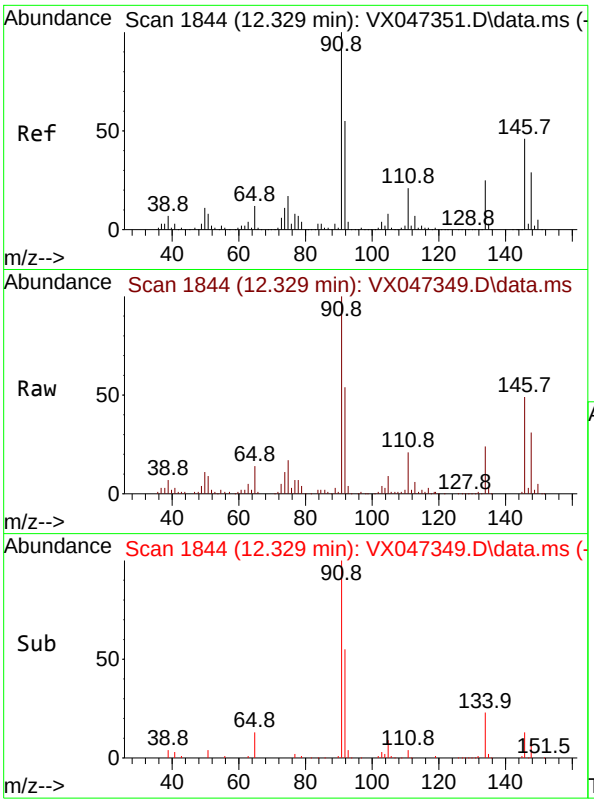


#88
1,4-Dichlorobenzene
Concen: 4.763 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:146 Resp: 40089

Ion	Ratio	Lower	Upper
146	100		
111	47.8	20.4	61.2
148	66.7	31.7	95.1

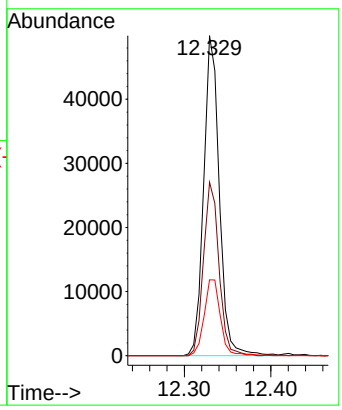




#89
n-Butylbenzene
Concen: 4.461 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 91 Resp: 6266

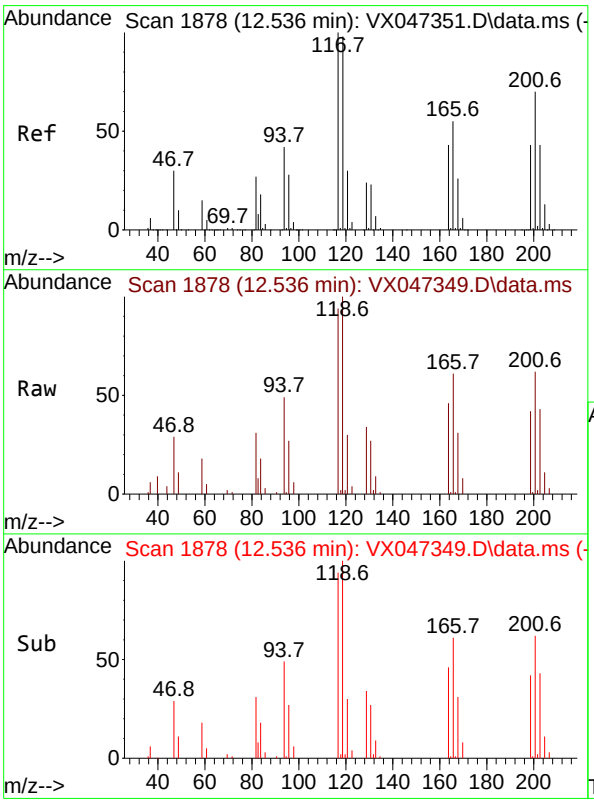
Ion	Ratio	Lower	Upper
91	100		
92	53.6	27.2	81.5
134	24.6	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

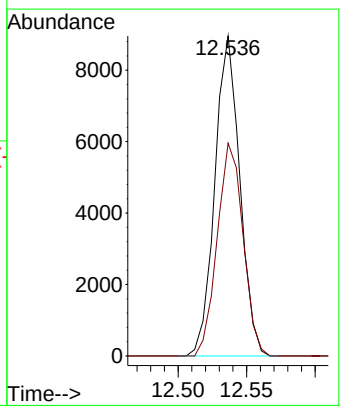
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

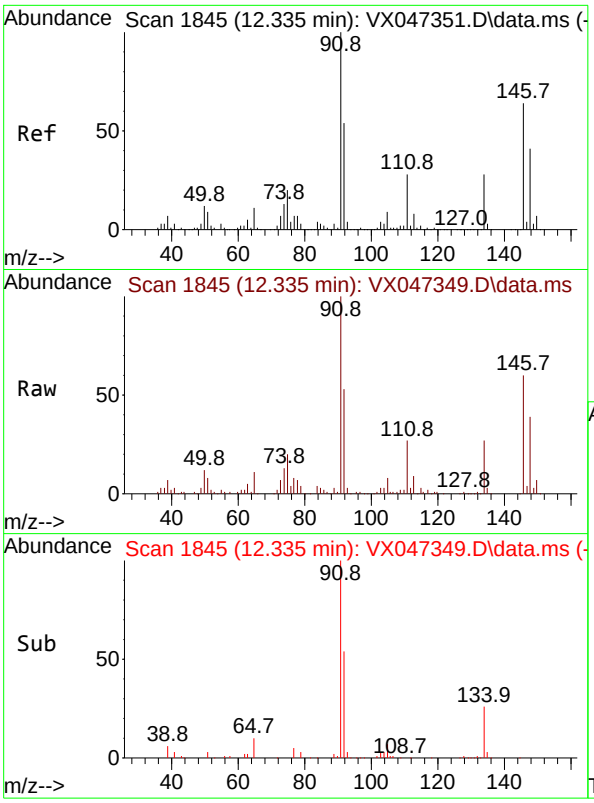


#90
Hexachloroethane
Concen: 4.274 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:117 Resp: 11325

Ion	Ratio	Lower	Upper
117	100		
201	68.9	35.1	105.3

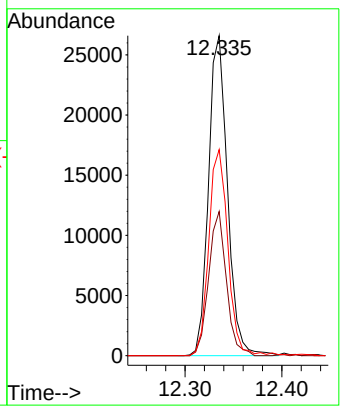




#91
1,2-Dichlorobenzene
Concen: 4.667 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:146 Resp: 3624

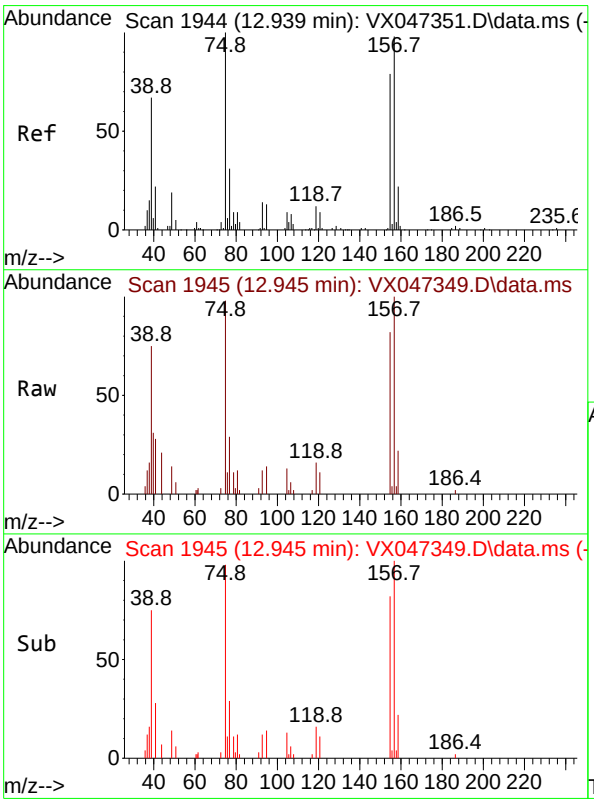
Ion	Ratio	Lower	Upper
146	100		
111	42.3	22.1	66.1
148	65.2	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

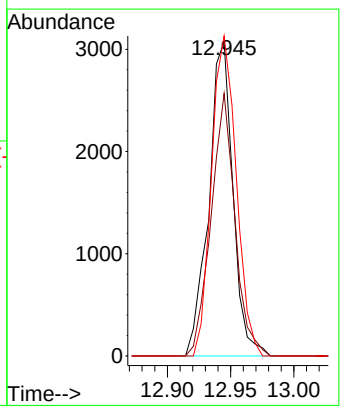
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

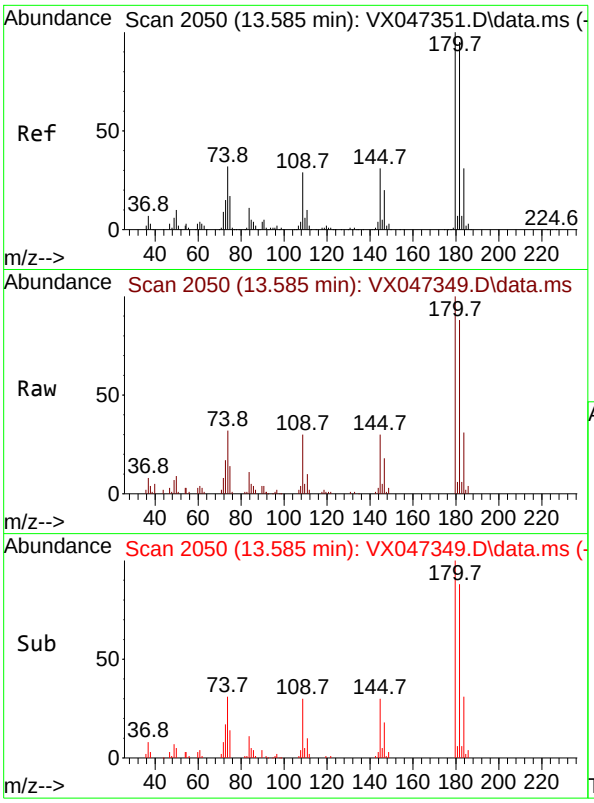


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.097 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 75 Resp: 4081

Ion	Ratio	Lower	Upper
75	100		
155	82.5	41.3	123.7
157	104.4	51.5	154.5

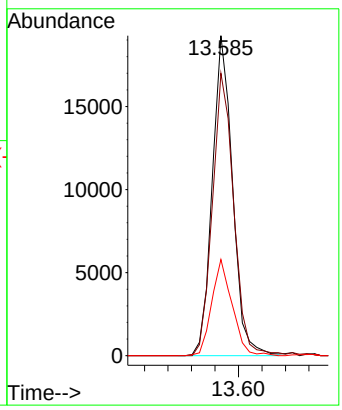




#93
1,2,4-Trichlorobenzene
Concen: 4.432 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:180 Resp: 2308

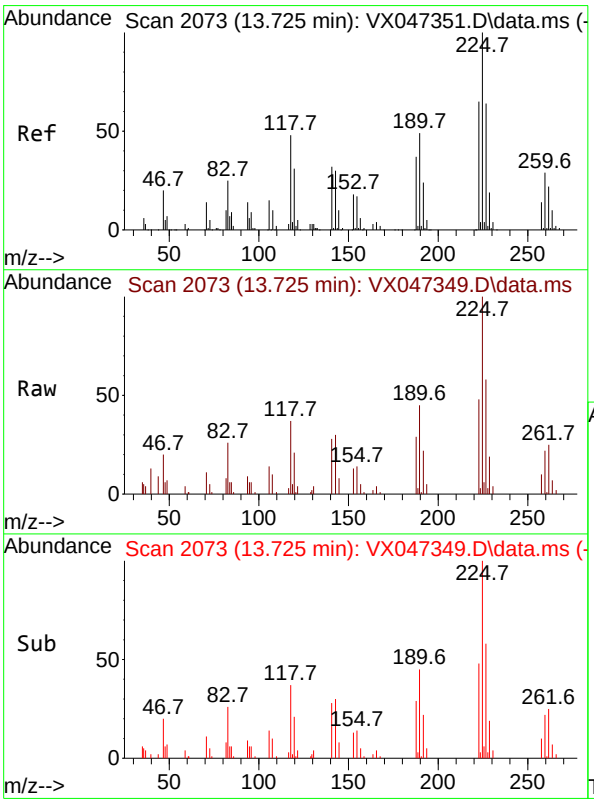
Ion	Ratio	Lower	Upper
180	100		
182	92.4	48.1	144.4
145	30.4	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

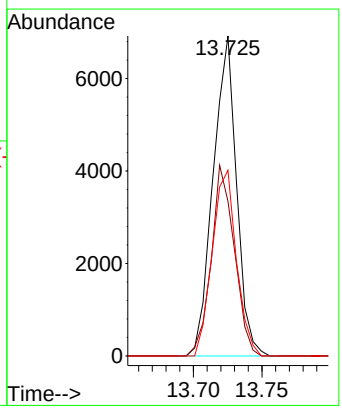
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

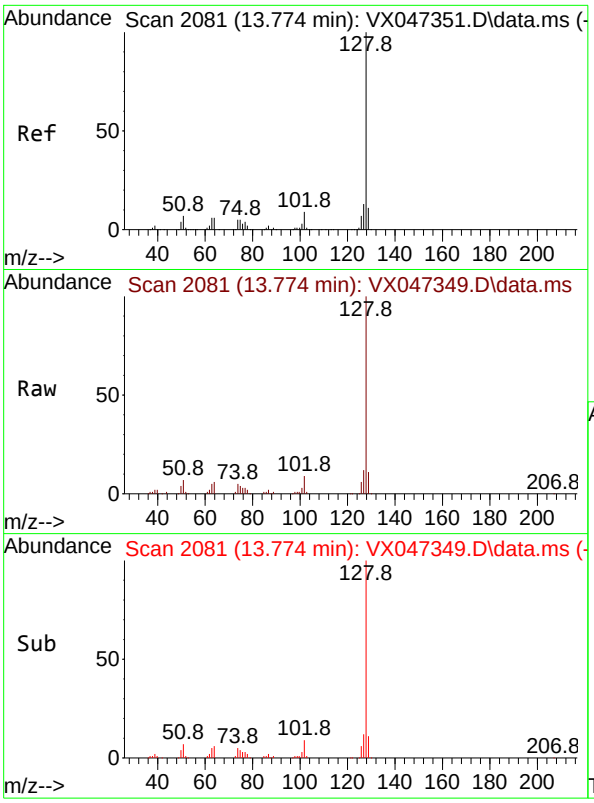


#94
Hexachlorobutadiene
Concen: 4.436 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:225 Resp: 8221

Ion	Ratio	Lower	Upper
225	100		
223	58.6	32.2	96.6
227	60.0	31.6	95.0

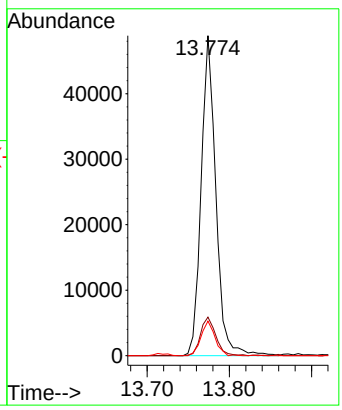




#95
Naphthalene
Concen: 4.076 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:128 Resp: 6064

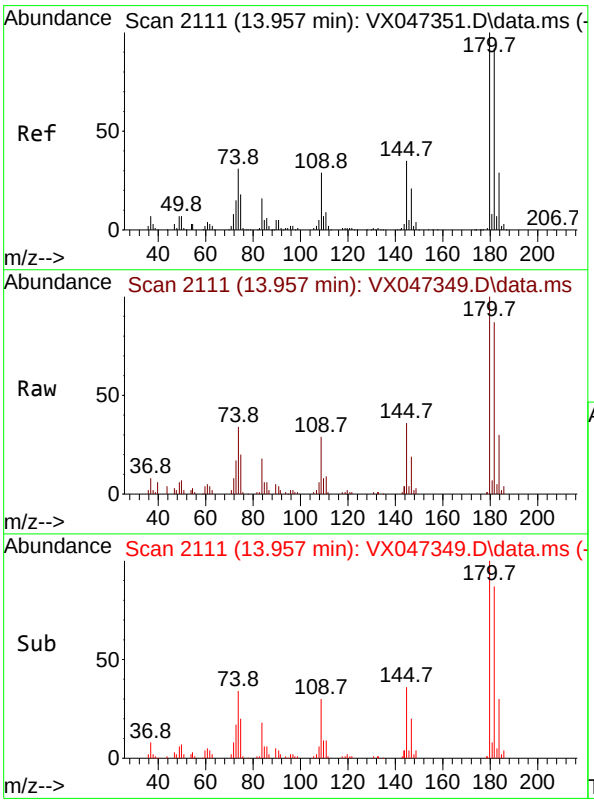
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.3	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

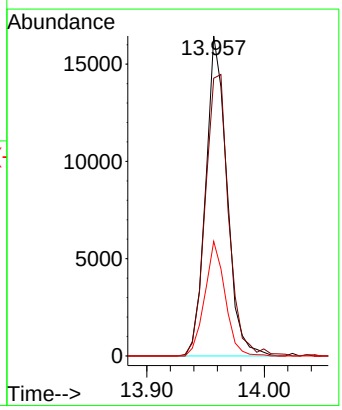
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.199 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:180 Resp: 20611

Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.0	144.2
145	34.3	17.4	52.2



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047350.D
Acq On : 15 Aug 2025 10:01
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 18 02:53:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	259497	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	434596	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	392362	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	196732	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	60290	16.601	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 33.200%#			
35) Dibromofluoromethane	5.397	113	48382	17.153	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 34.300%#			
50) Toluene-d8	8.653	98	172730	17.133	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 34.260%#			
62) 4-Bromofluorobenzene	11.079	95	64433	17.320	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 34.640%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	66192	20.010	ug/l	96
3) Chloromethane	1.313	50	58950	19.810	ug/l	96
4) Vinyl Chloride	1.392	62	77968	20.874	ug/l	99
5) Bromomethane	1.624	94	30761	20.389	ug/l	89
6) Chloroethane	1.703	64	45658	19.979	ug/l	100
7) Trichlorofluoromethane	1.904	101	116366	21.062	ug/l	96
8) Diethyl Ether	2.148	74	40131	20.629	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	68887	21.495	ug/l	100
10) Methyl Iodide	2.471	142	94708	17.244	ug/l	99
11) Tert butyl alcohol	2.965	59	30471	96.445	ug/l	98
12) 1,1-Dichloroethene	2.337	96	68973	21.110	ug/l	98
13) Acrolein	2.252	56	63232	94.809	ug/l	100
14) Allyl chloride	2.678	41	118613	20.902	ug/l	99
15) Acrylonitrile	3.081	53	163095	106.830	ug/l	99
16) Acetone	2.392	43	161019	117.954	ug/l	95
17) Carbon Disulfide	2.532	76	198834	20.167	ug/l	98
18) Methyl Acetate	2.715	43	68662	19.410	ug/l	99
19) Methyl tert-butyl Ether	3.130	73	209527	21.080	ug/l	98
20) Methylene Chloride	2.806	84	76029	21.033	ug/l	97
21) trans-1,2-Dichloroethene	3.111	96	73205	21.110	ug/l	99
22) Diisopropyl ether	3.776	45	246210	21.949	ug/l	98
23) Vinyl Acetate	3.733	43	996178	108.348	ug/l	97
24) 1,1-Dichloroethane	3.629	63	134271	21.177	ug/l	99
25) 2-Butanone	4.568	43	195973	109.614	ug/l	96
26) 2,2-Dichloropropane	4.489	77	101341	21.177	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	85695	21.217	ug/l	98
28) Bromochloromethane	4.910	49	41717	15.812	ug/l	100
29) Tetrahydrofuran	5.032	42	117869	102.002	ug/l	97
30) Chloroform	5.105	83	137885	21.309	ug/l	96
31) Cyclohexane	5.483	56	124775	21.348	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	119441	21.445	ug/l	98
36) 1,1-Dichloropropene	5.702	75	95703	21.494	ug/l	99
37) Ethyl Acetate	4.727	43	98709	21.355	ug/l	96
38) Carbon Tetrachloride	5.690	117	103616	21.296	ug/l	96
39) Methylcyclohexane	7.385	83	116913	21.051	ug/l	95
40) Benzene	6.050	78	289406	21.716	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047350.D
Acq On : 15 Aug 2025 10:01
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 18 02:53:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	42490	21.799	ug/l		96
42) 1,2-Dichloroethane	6.098	62	103227	21.867	ug/l		98
43) Isopropyl Acetate	6.348	43	141062	21.243	ug/l		99
44) Trichloroethene	7.135	130	73526	21.546	ug/l		94
45) 1,2-Dichloropropane	7.434	63	72118	21.601	ug/l		100
46) Dibromomethane	7.586	93	52472	21.648	ug/l		99
47) Bromodichloromethane	7.824	83	107990	21.491	ug/l		98
48) Methyl methacrylate	7.696	41	72765	21.111	ug/l		100
49) 1,4-Dioxane	7.684	88	13554m	414.079	ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	416671	109.039	ug/l		100
52) Toluene	8.720	92	181368	22.024	ug/l		100
53) t-1,3-Dichloropropene	8.982	75	93302	21.275	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	105701	21.294	ug/l		99
55) 1,1,2-Trichloroethane	9.153	97	68282	21.838	ug/l		98
56) Ethyl methacrylate	9.116	69	97675	21.188	ug/l		99
57) 1,3-Dichloropropane	9.311	76	116737	21.910	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	159793	78.521	ug/l		99
59) 2-Hexanone	9.433	43	293885	111.182	ug/l		100
60) Dibromochloromethane	9.519	129	80119	21.561	ug/l		98
61) 1,2-Dibromoethane	9.610	107	68961	21.388	ug/l		99
64) Tetrachloroethene	9.275	164	60329	21.257	ug/l		93
65) Chlorobenzene	10.079	112	198998	21.342	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	66366	21.056	ug/l		99
67) Ethyl Benzene	10.195	91	347834	21.675	ug/l		99
68) m/p-Xylenes	10.299	106	260945	43.608	ug/l		98
69) o-Xylene	10.640	106	124422	21.606	ug/l		99
70) Styrene	10.653	104	219310	22.540	ug/l		99
71) Bromoform	10.799	173	50519	21.335	ug/l	#	99
73) Isopropylbenzene	10.963	105	329846	21.425	ug/l		99
74) N-amyl acetate	10.842	43	121116	20.717	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	95098	21.039	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	74083m	20.531	ug/l		
77) Bromobenzene	11.195	156	80066	21.298	ug/l		99
78) n-propylbenzene	11.305	91	395888	21.531	ug/l		99
79) 2-Chlorotoluene	11.360	91	239133	21.515	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	272501	21.513	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	11057	19.090	ug/l		90
82) 4-Chlorotoluene	11.451	91	278705	21.272	ug/l		99
83) tert-Butylbenzene	11.713	119	271541	21.487	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	277110	21.876	ug/l		100
85) sec-Butylbenzene	11.890	105	340203	21.719	ug/l		99
86) p-Isopropyltoluene	12.006	119	280855	21.189	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	150028	20.890	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	153630	20.798	ug/l		99
89) n-Butylbenzene	12.329	91	260428	21.124	ug/l		99
90) Hexachloroethane	12.536	117	45934	19.754	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	145629	21.363	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	17698	20.246	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	91878	20.105	ug/l		100
94) Hexachlorobutadiene	13.719	225	30481	18.738	ug/l		98
95) Naphthalene	13.774	128	267664	20.495	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	87275	20.261	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047350.D
Acq On : 15 Aug 2025 10:01
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 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:53:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 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\VX081525\
Data File : VX047350.D
Acq On : 15 Aug 2025 10:01
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 18 02:53:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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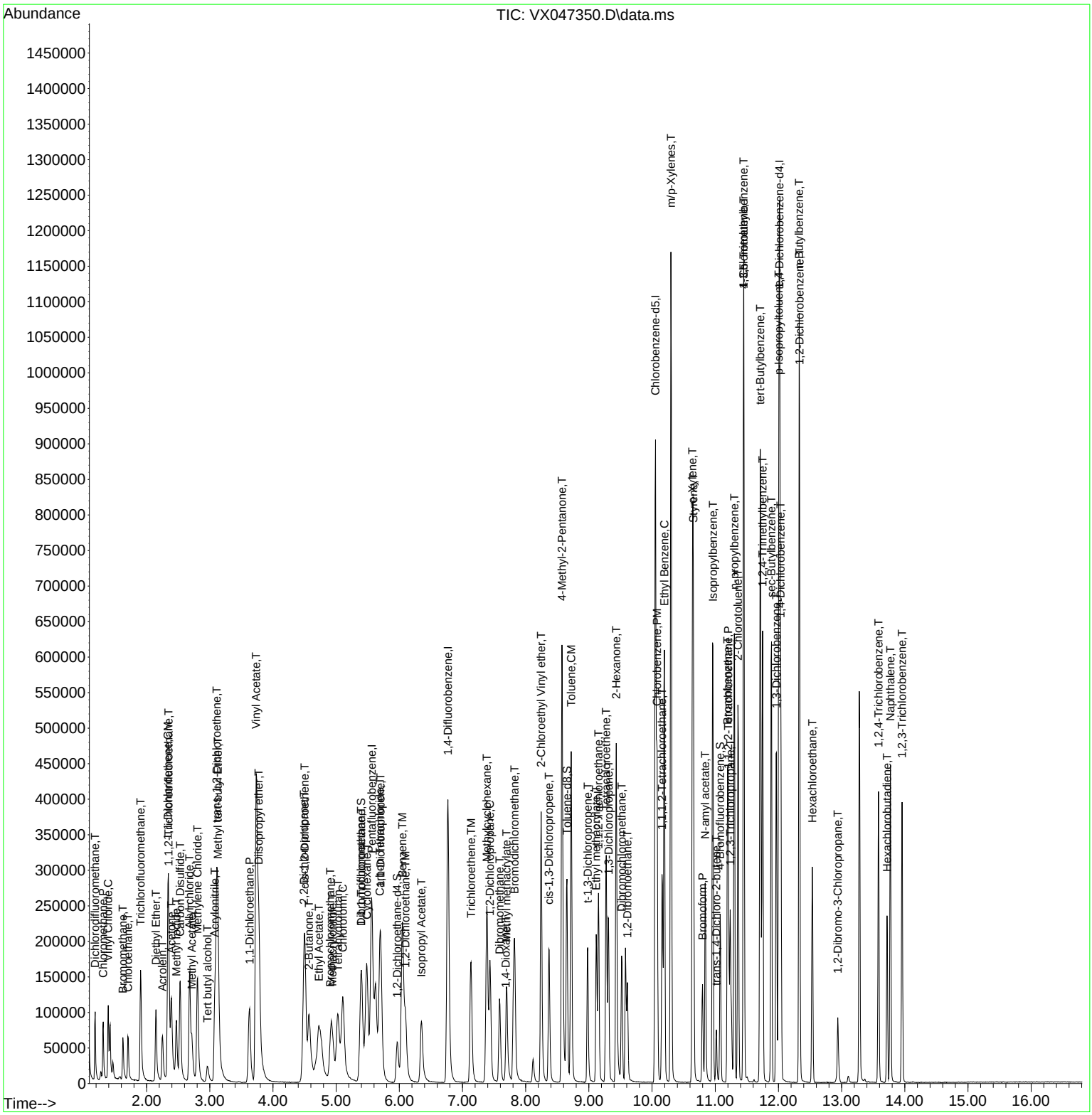
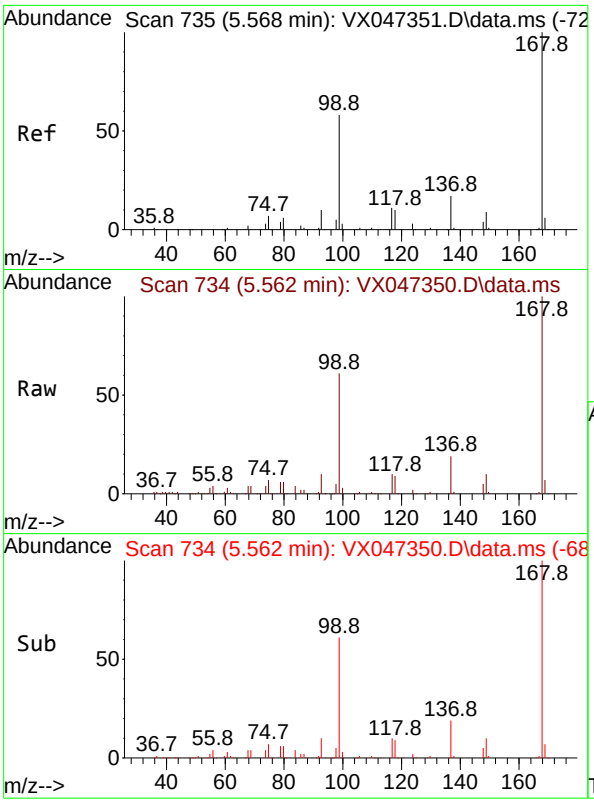
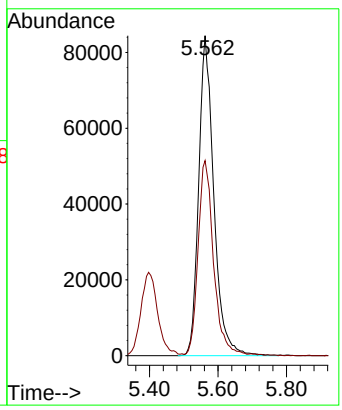




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:168 Resp: 25949

Ion	Ratio	Lower	Upper
168	100		
99	60.9	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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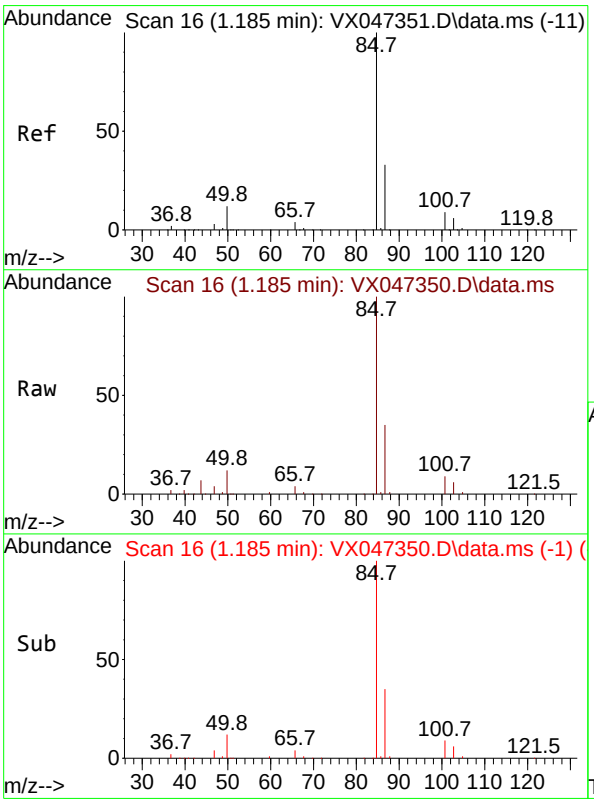
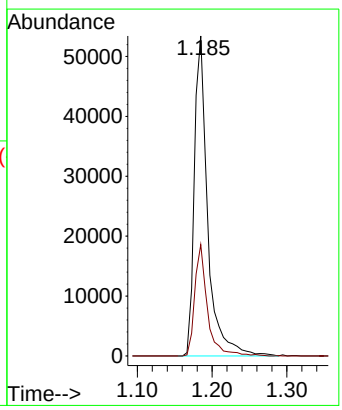
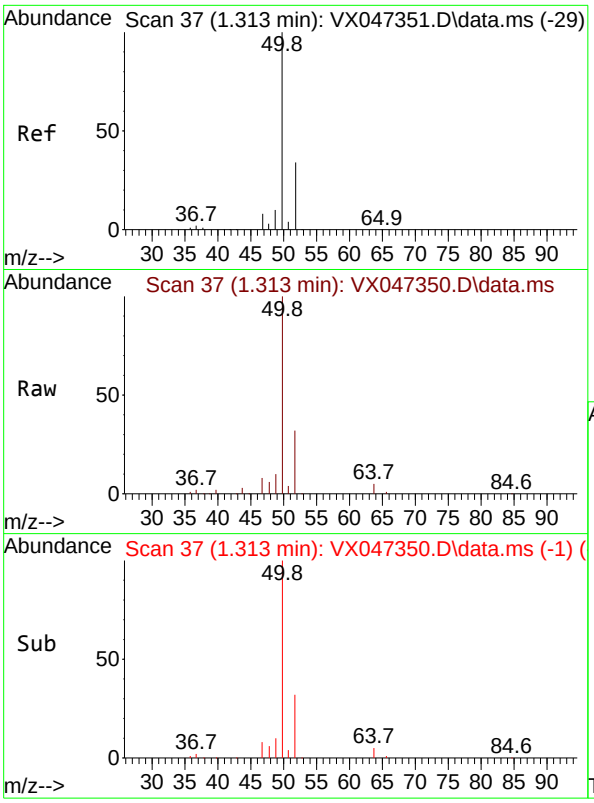


#2
Dichlorodifluoromethane
Concen: 20.010 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 85 Resp: 66192

Ion	Ratio	Lower	Upper
85	100		
87	34.8	16.4	49.1

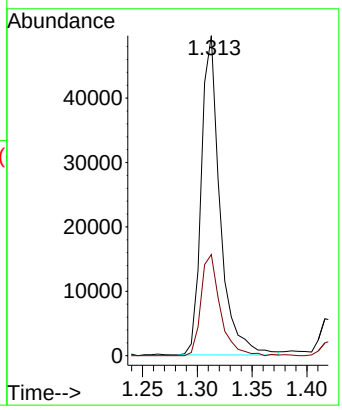




#3
Chloromethane
Concen: 19.810 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 50 Resp: 5895

Ion	Ratio	Lower	Upper
50	100		
52	31.7	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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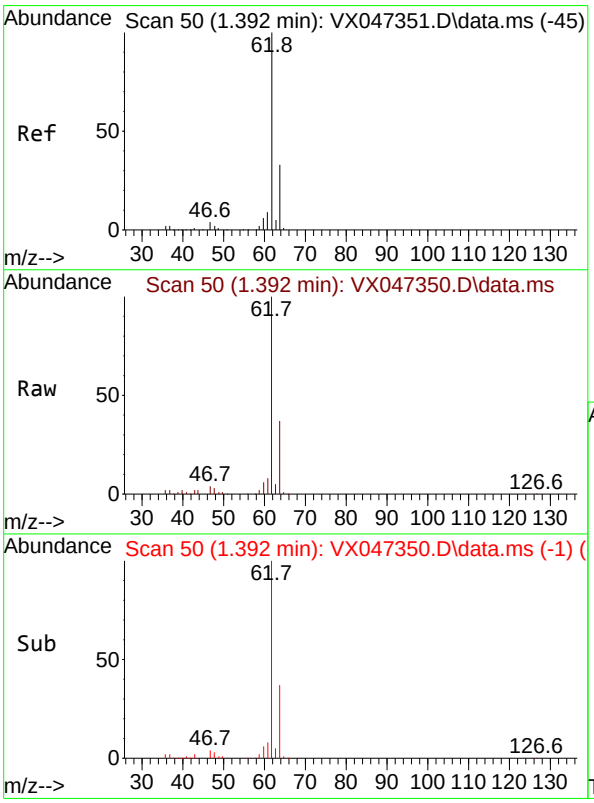
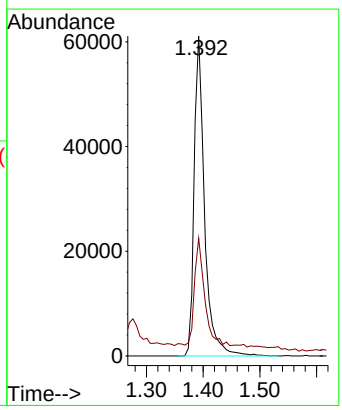
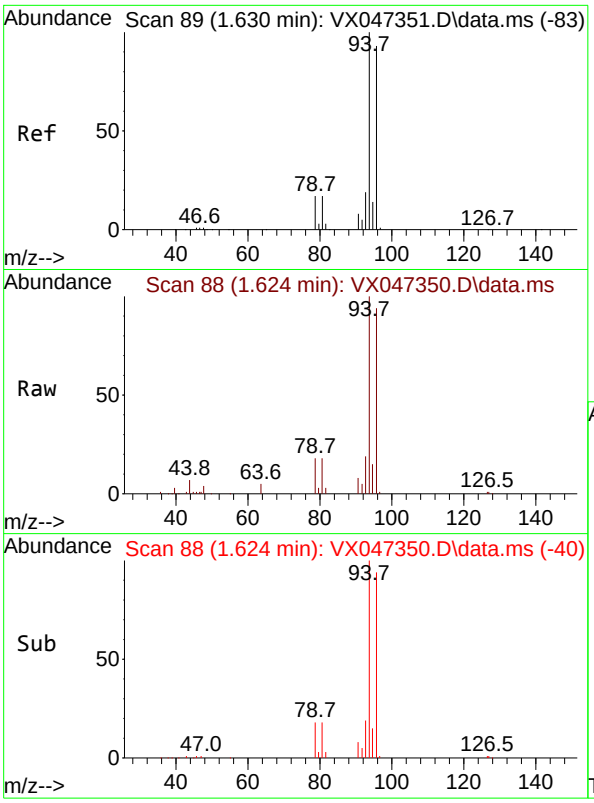


#4
Vinyl Chloride
Concen: 20.874 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 62 Resp: 77968

Ion	Ratio	Lower	Upper
62	100		
64	33.9	26.5	39.7

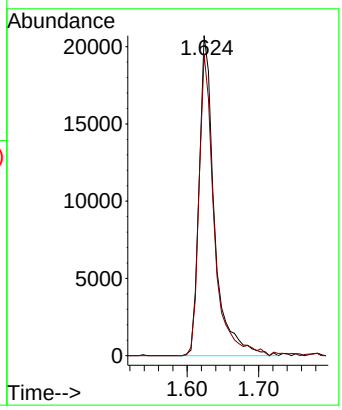




#5
Bromomethane
Concen: 20.389 ug/l
RT: 1.624 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 94 Resp: 3076

Ion	Ratio	Lower	Upper
94	100		
96	83.2	74.7	112.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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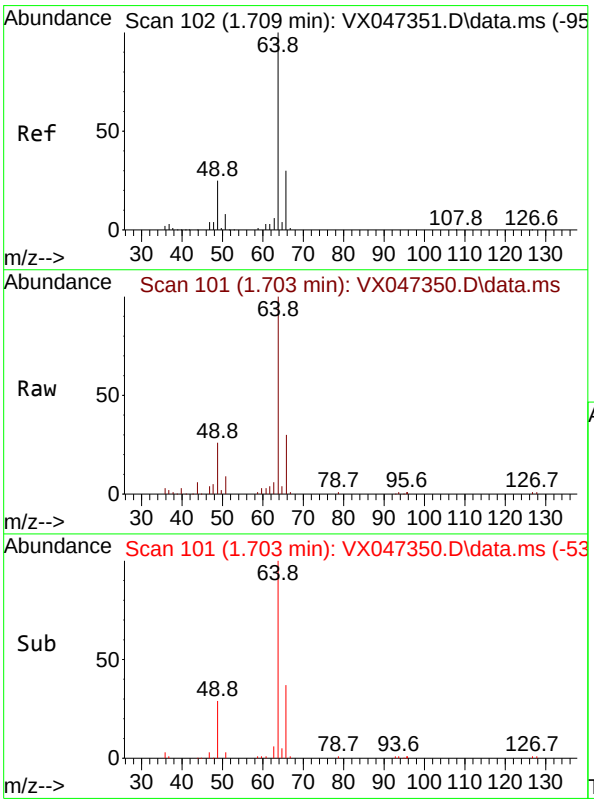
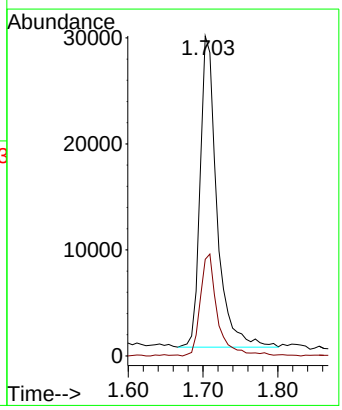
Supervised By :Mahesh Dadoda 08/19/2025

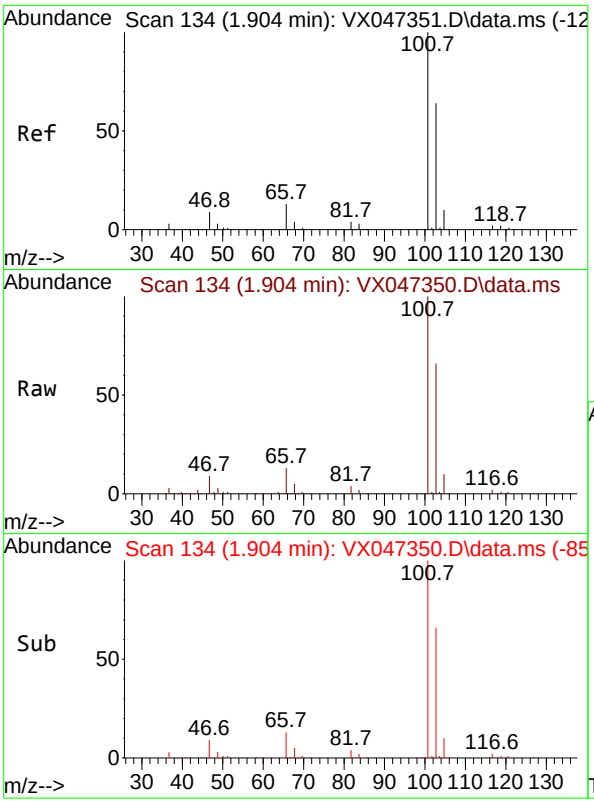


#6
Chloroethane
Concen: 19.979 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 64 Resp: 45658

Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.4	36.6

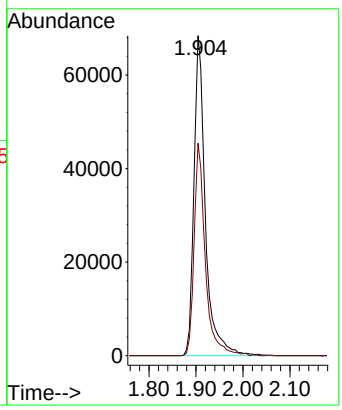




#7
Trichlorofluoromethane
Concen: 21.062 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:101 Resp: 11636

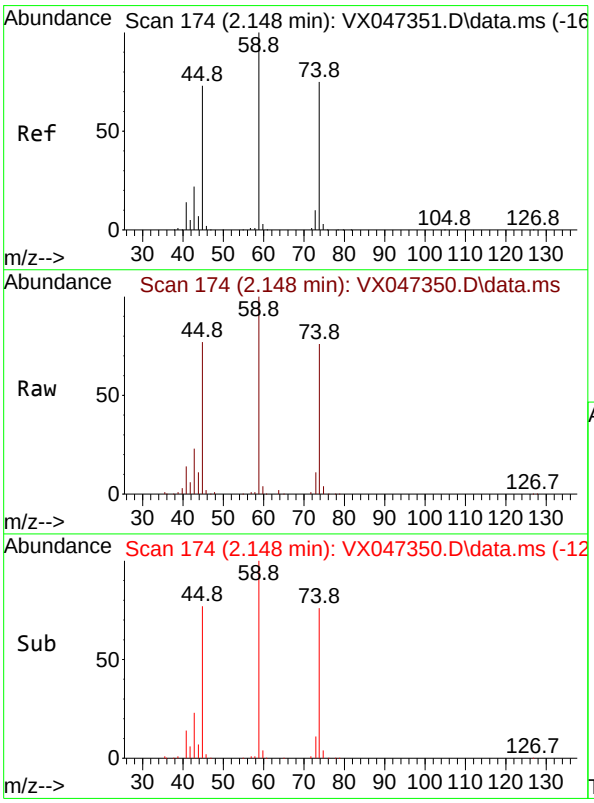
Ion	Ratio	Lower	Upper
101	100		
103	66.4	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

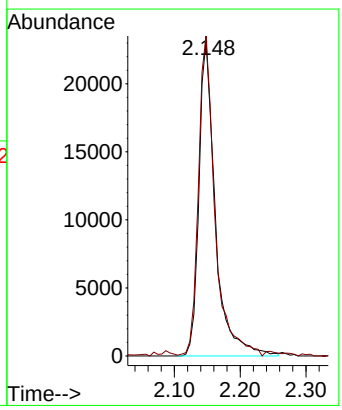
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

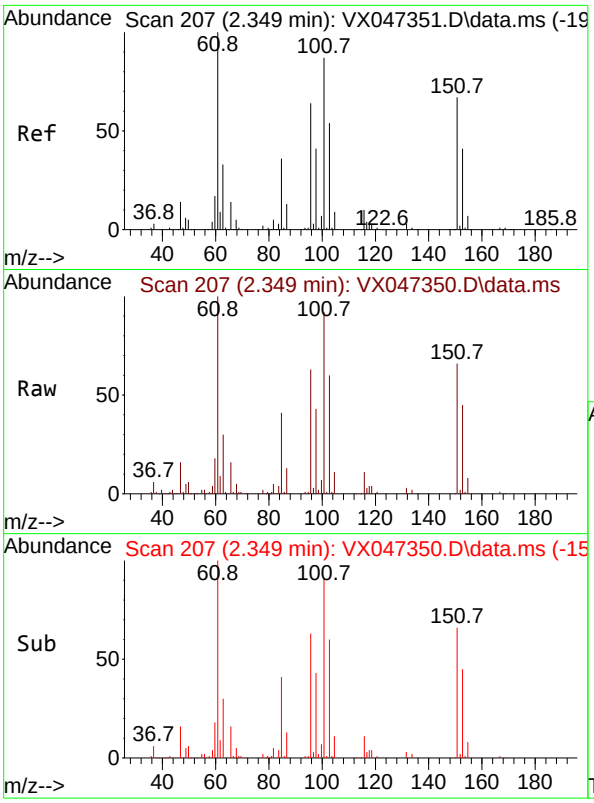


#8
Diethyl Ether
Concen: 20.629 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 74 Resp: 40131

Ion	Ratio	Lower	Upper
74	100		
45	102.2	51.3	154.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.495 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:101 Resp: 6888

Ion	Ratio	Lower	Upper
101	100		
85	42.6	34.3	51.5
151	74.0	59.2	88.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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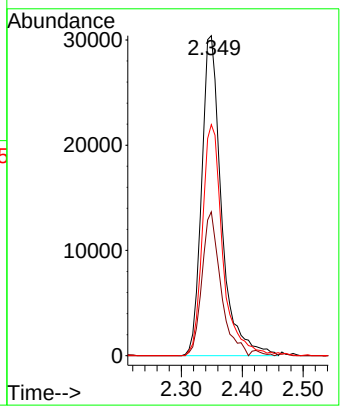
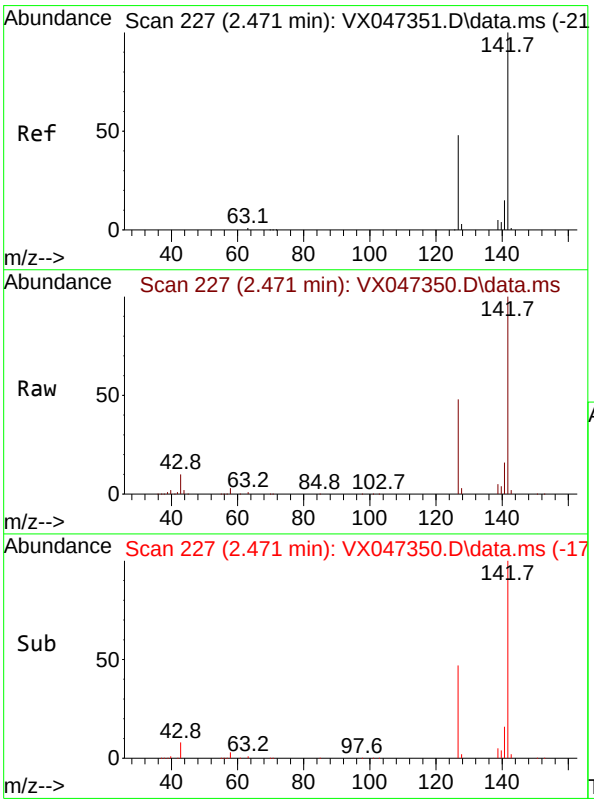
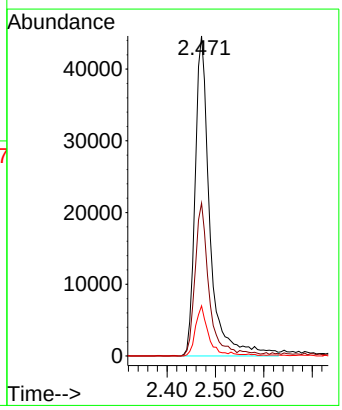


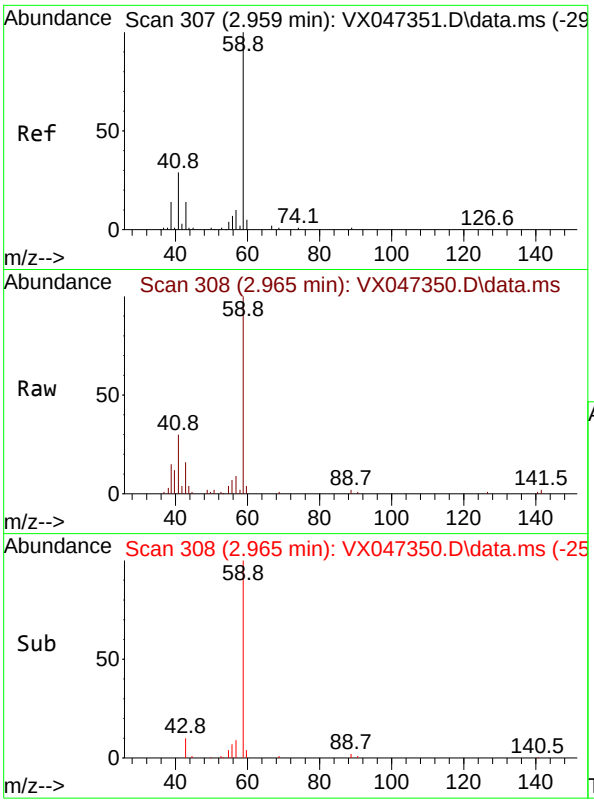


#10
Methyl Iodide
Concen: 17.244 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:142 Resp: 94708

Ion	Ratio	Lower	Upper
142	100		
127	44.2	36.1	54.1
141	13.3	11.1	16.7

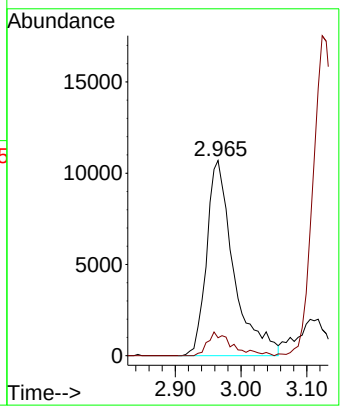




#11
Tert butyl alcohol
Concen: 96.445 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 59 Resp: 3047

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025
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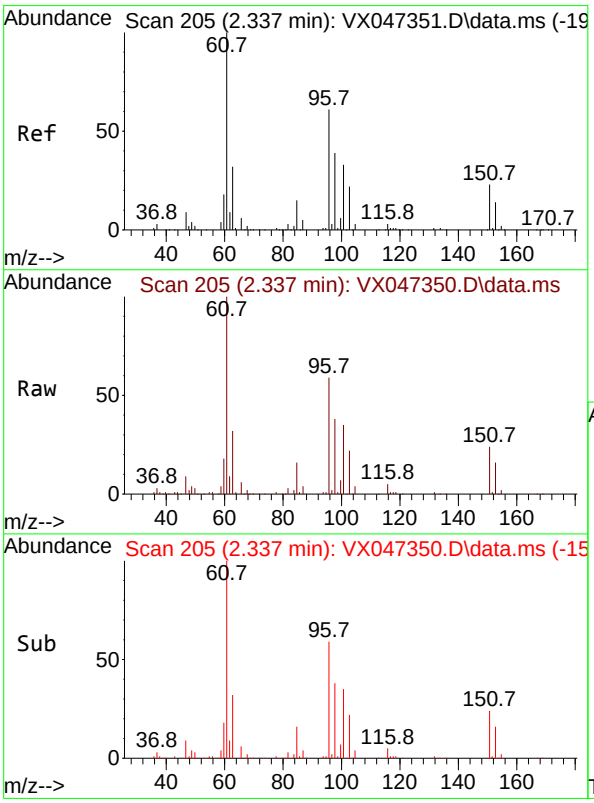
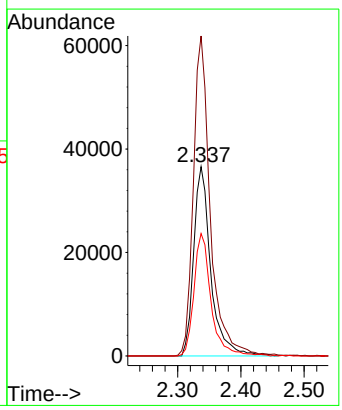
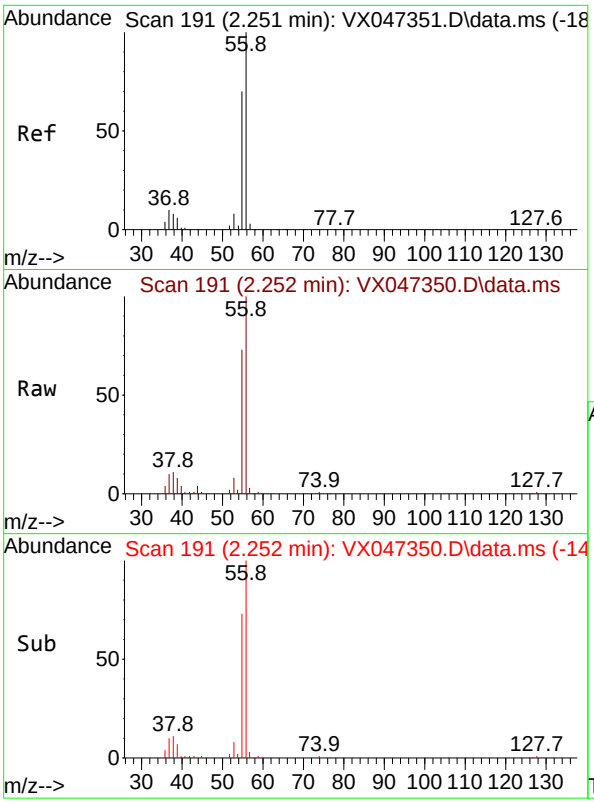


#12
1,1-Dichloroethene
Concen: 21.110 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 96 Resp: 68973

Ion	Ratio	Lower	Upper
96	100		
61	168.6	132.2	198.2
98	64.7	51.2	76.8

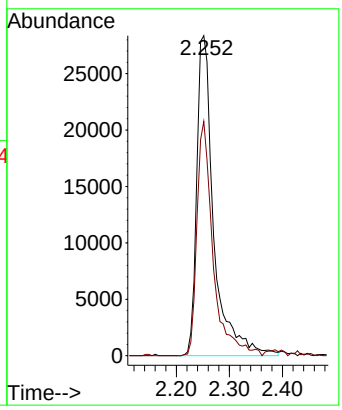




#13
Acrolein
Concen: 94.809 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 56 Resp: 6323

Ion	Ratio	Lower	Upper
56	100		
55	69.1	55.5	83.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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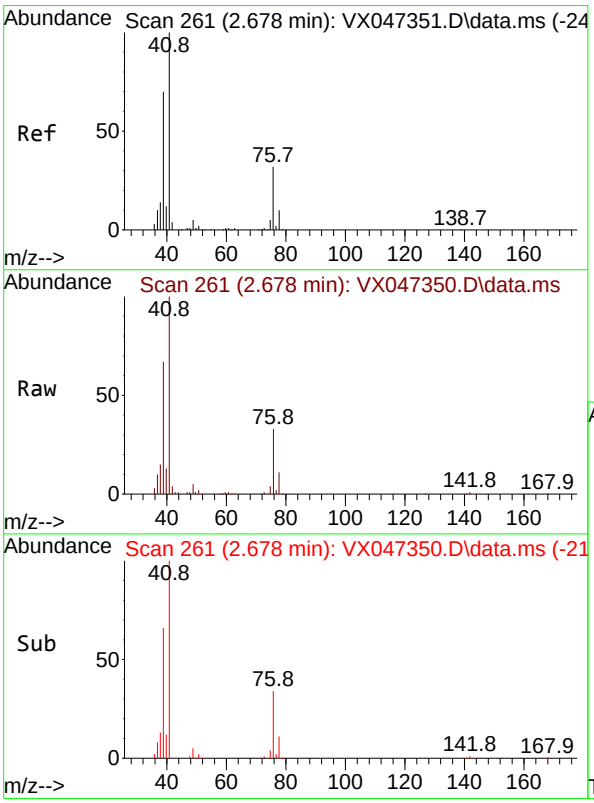
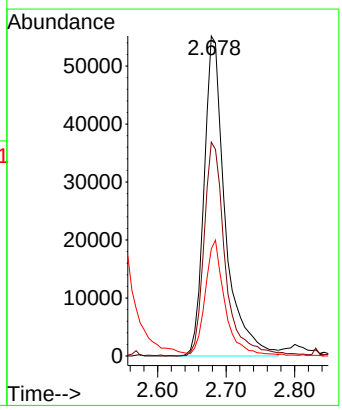
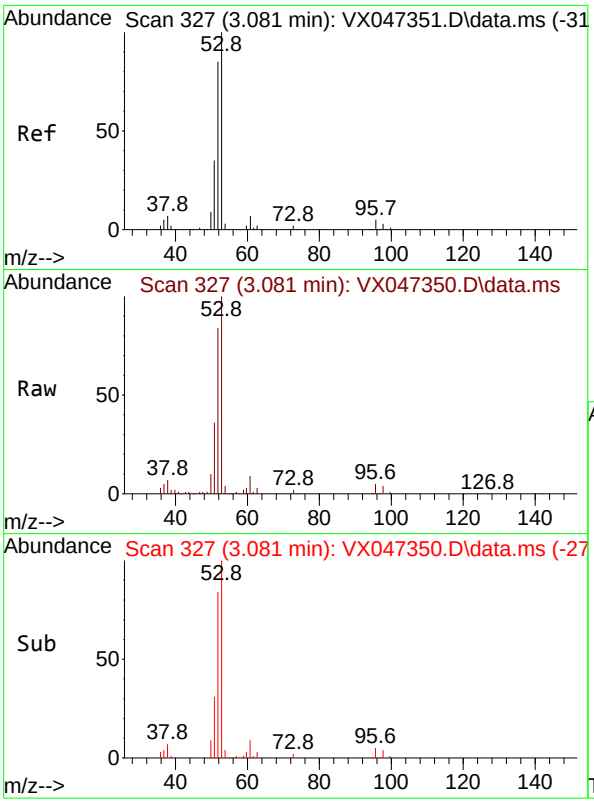


#14
Allyl chloride
Concen: 20.902 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 41 Resp: 118613

Ion	Ratio	Lower	Upper
41	100		
39	67.2	54.6	81.8
76	33.4	27.6	41.4

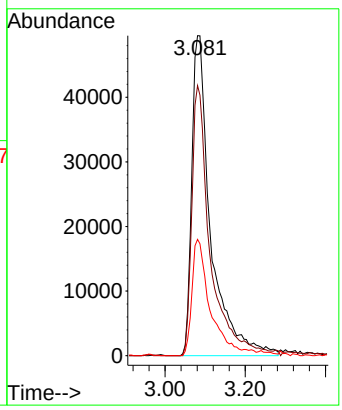




#15
Acrylonitrile
Concen: 106.830 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 53 Resp: 16309

Ion	Ratio	Lower	Upper
53	100		
52	81.2	65.8	98.6
51	35.4	28.2	42.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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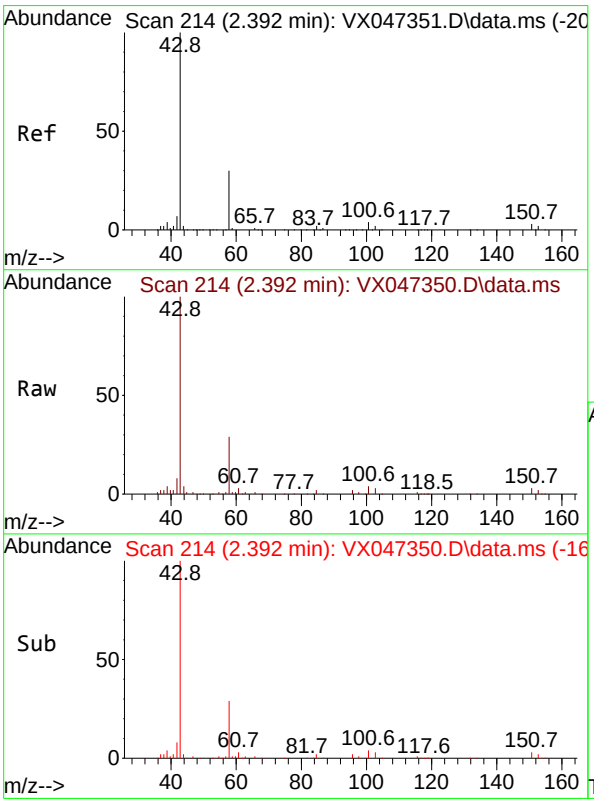
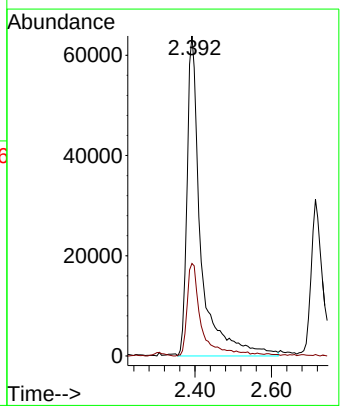
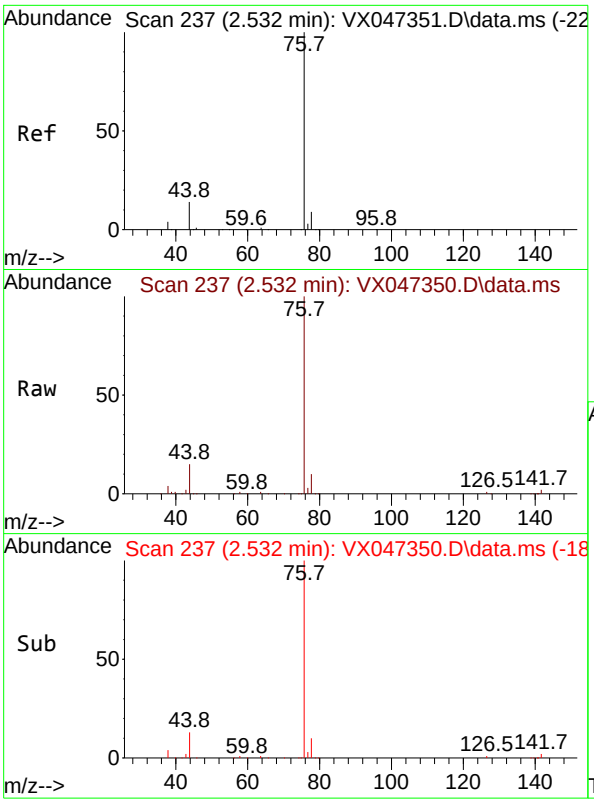


#16
Acetone
Concen: 117.954 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 43 Resp: 161019

Ion	Ratio	Lower	Upper
43	100		
58	28.5	24.8	37.2





#17
Carbon Disulfide
Concen: 20.167 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 76 Resp: 19883

Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.2	10.8

Instrument :
MSVOA_X
ClientSampleId :
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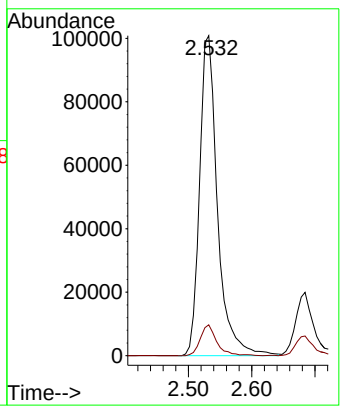
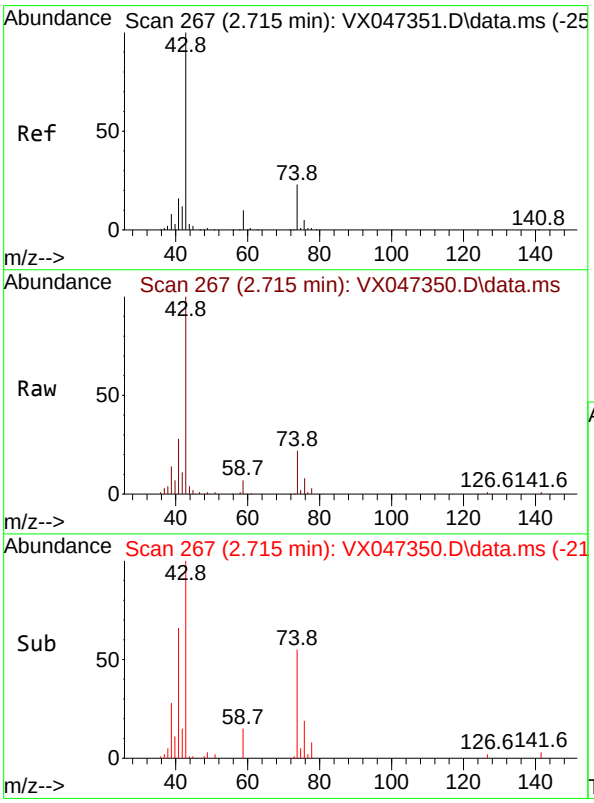
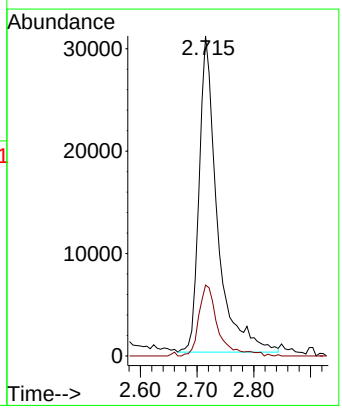


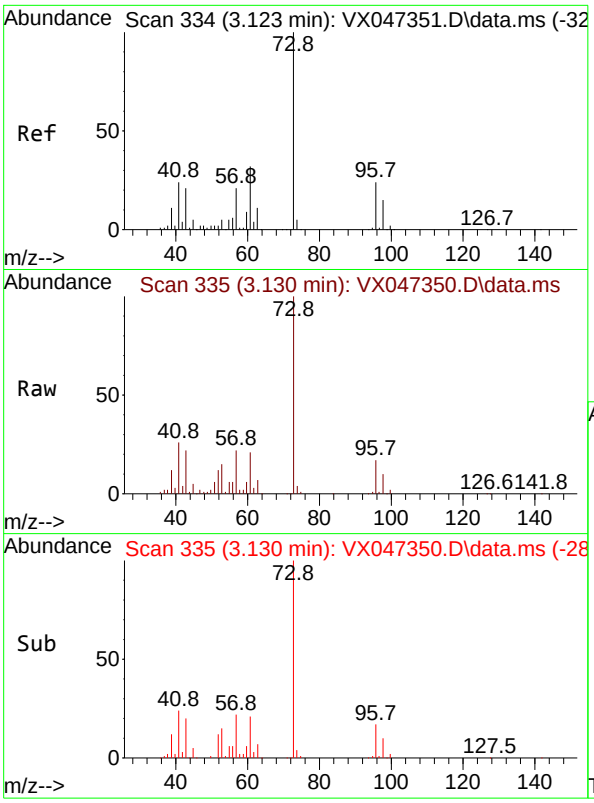


#18
Methyl Acetate
Concen: 19.410 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 43 Resp: 68662

Ion	Ratio	Lower	Upper
43	100		
74	23.7	18.4	27.6

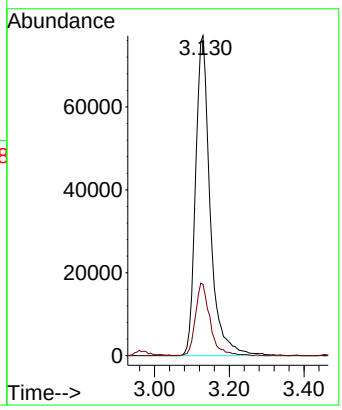




#19
Methyl tert-butyl Ether
Concen: 21.080 ug/l
RT: 3.130 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 73 Resp: 20952

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.0	25.6



Instrument :
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ClientSampleId :
VSTDICC020

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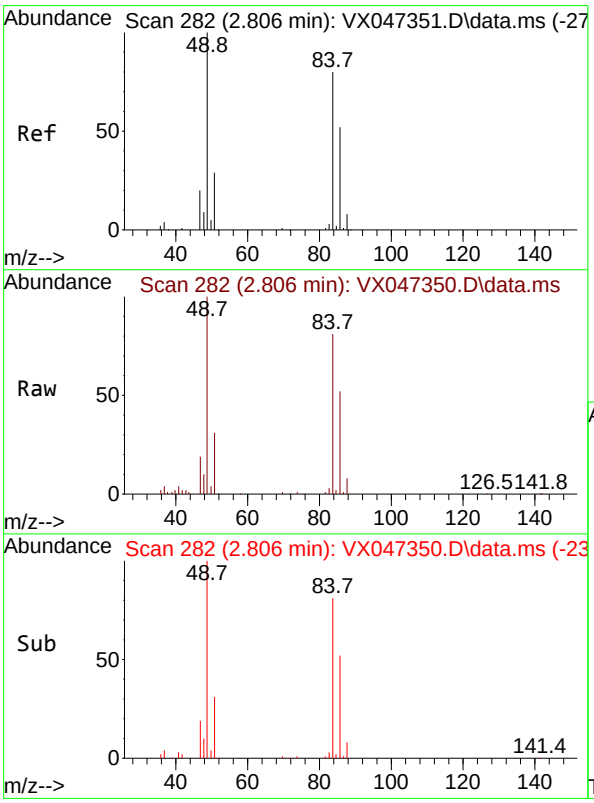
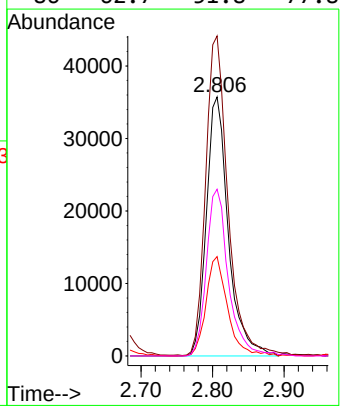
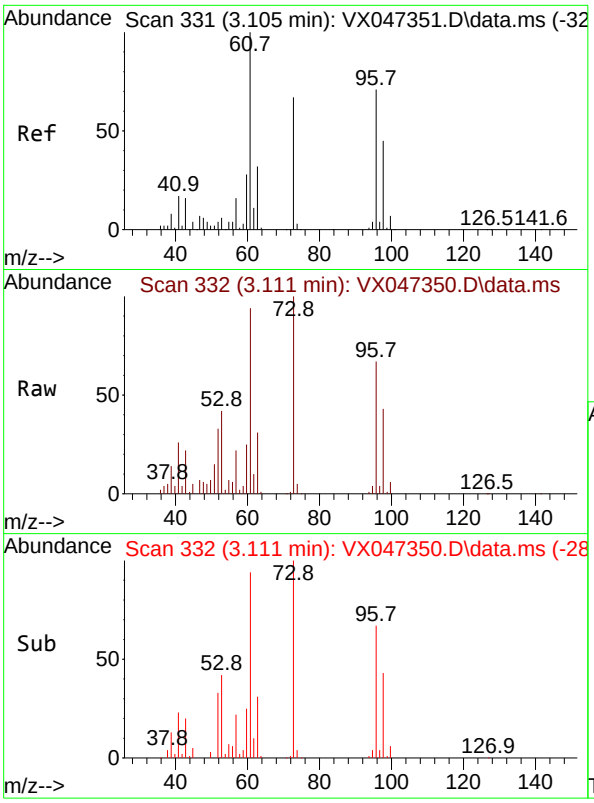


#20
Methylene Chloride
Concen: 21.033 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 84 Resp: 76029

Ion	Ratio	Lower	Upper
84	100		
49	120.0	100.1	150.1
51	37.4	29.5	44.3
86	62.7	51.8	77.8

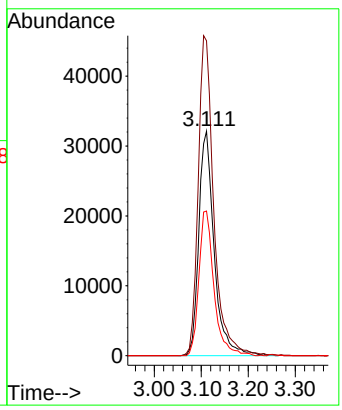




#21
trans-1,2-Dichloroethene
Concen: 21.110 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 96 Resp: 7320

Ion	Ratio	Lower	Upper
96	100		
61	140.3	112.6	169.0
98	64.4	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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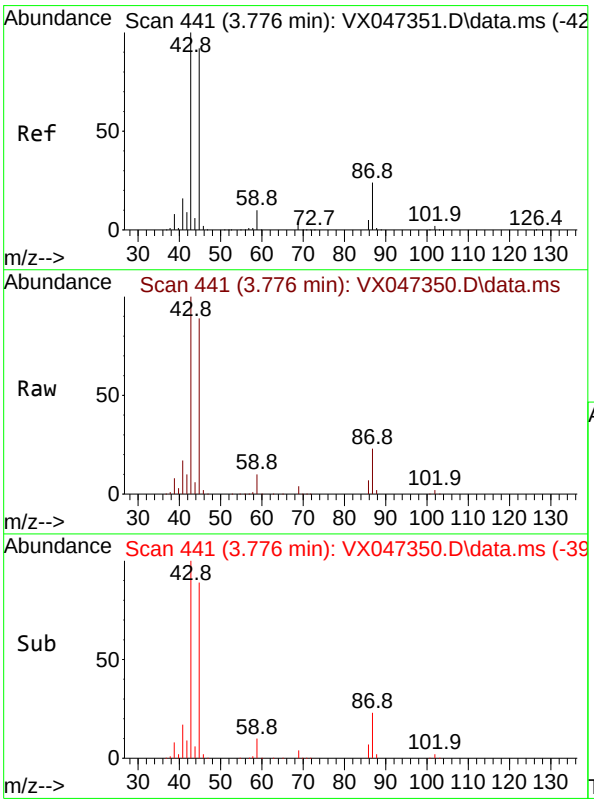
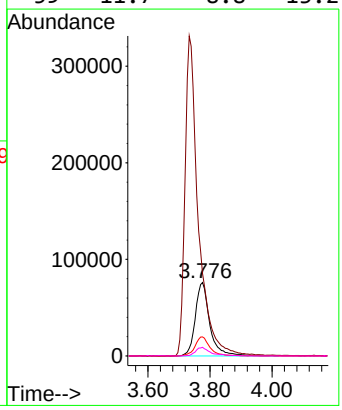
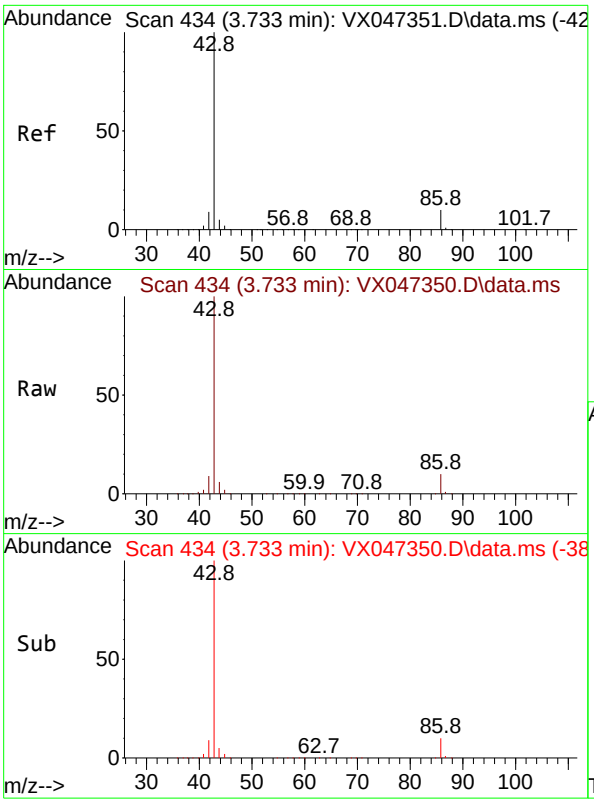


#22
Diisopropyl ether
Concen: 21.949 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 45 Resp: 246210

Ion	Ratio	Lower	Upper
45	100		
43	111.5	86.8	130.2
87	26.0	20.4	30.6
59	11.7	8.8	13.2





#23
Vinyl Acetate
Concen: 108.348 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 43 Resp: 99617

Ion	Ratio	Lower	Upper
43	100		
86	10.8	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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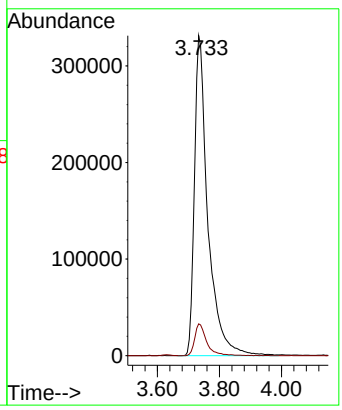
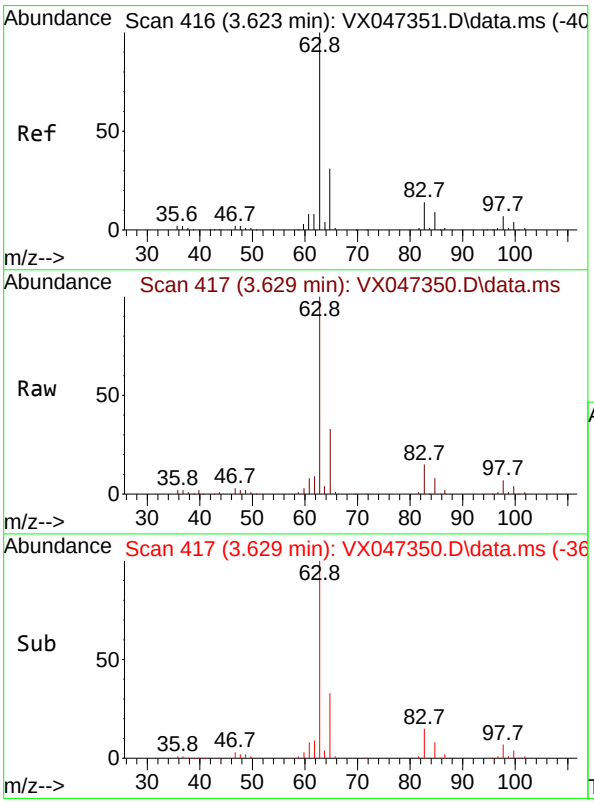
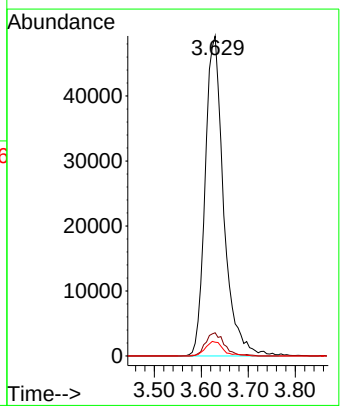


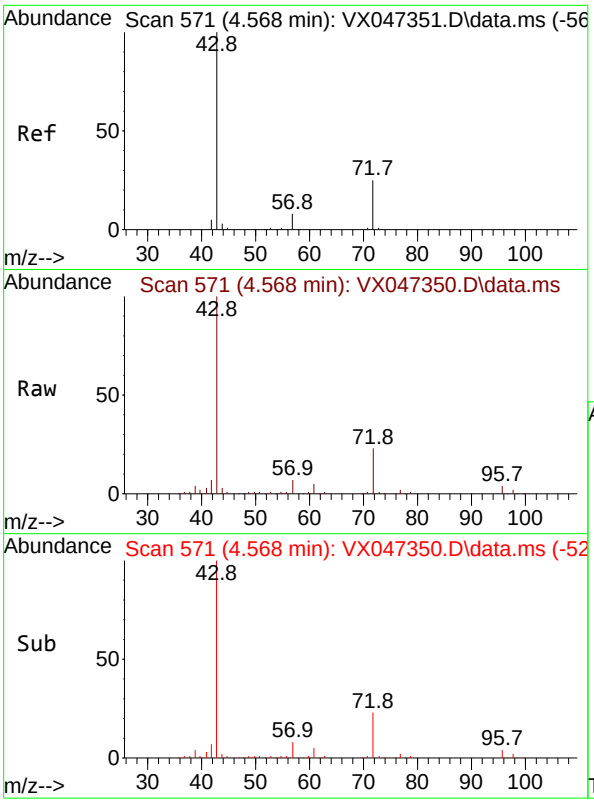


#24
1,1-Dichloroethane
Concen: 21.177 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 63 Resp: 134271

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.3	9.9
100	4.5	2.1	6.3





#25
2-Butanone
Concen: 109.614 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 43 Resp: 19597

Ion	Ratio	Lower	Upper
43	100		
72	22.7	19.8	29.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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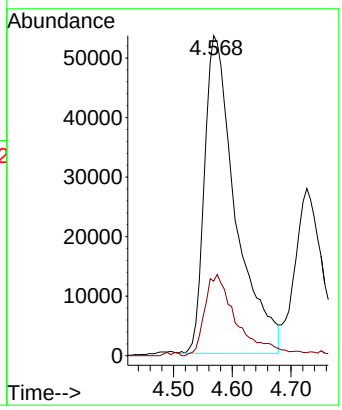
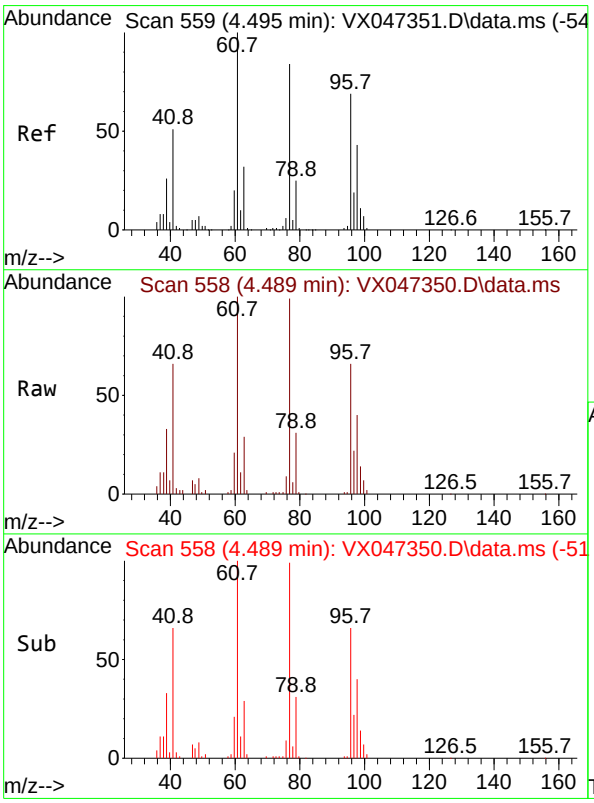
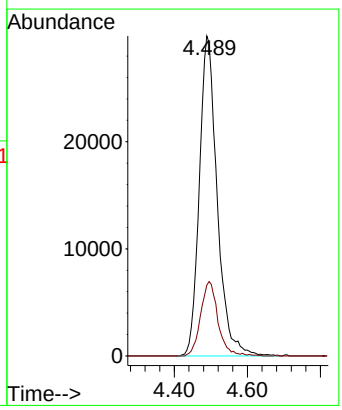


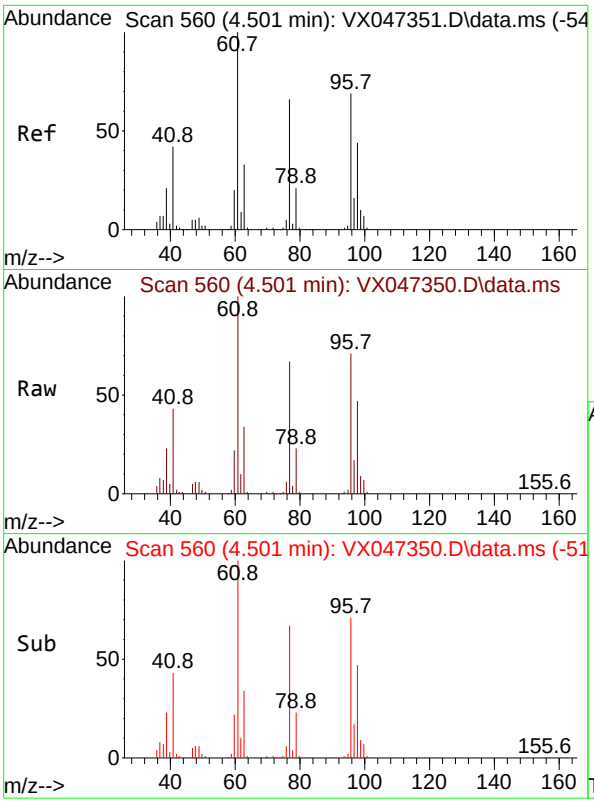


#26
2,2-Dichloropropane
Concen: 21.177 ug/l
RT: 4.489 min Scan# 558
Delta R.T. -0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 77 Resp: 101341

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.4	34.1

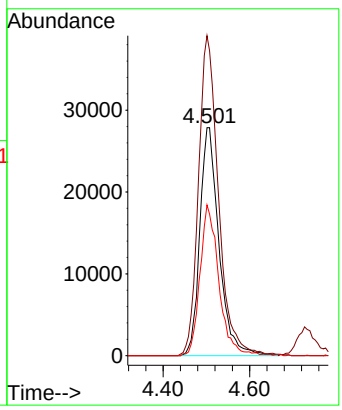




#27
cis-1,2-Dichloroethene
Concen: 21.217 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 96 Resp: 8569

Ion	Ratio	Lower	Upper
96	100		
61	145.8	0.0	296.6
98	64.8	0.0	130.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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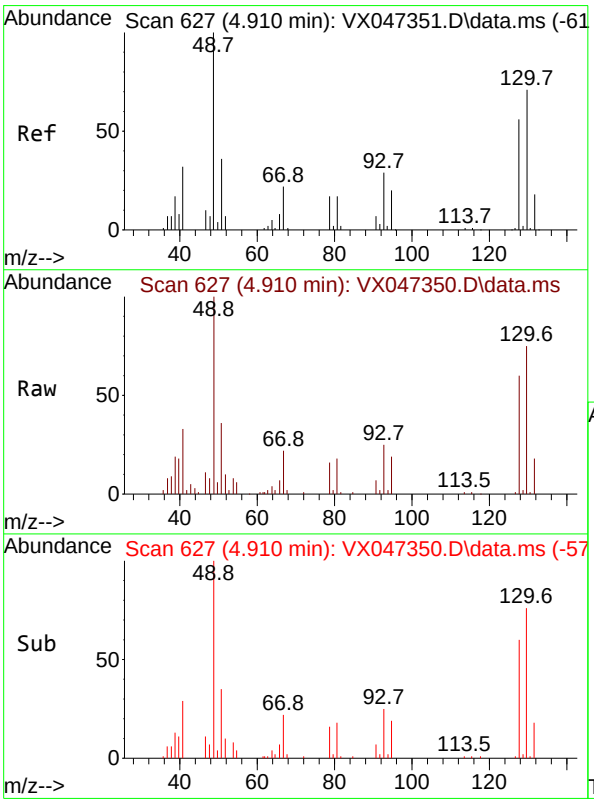
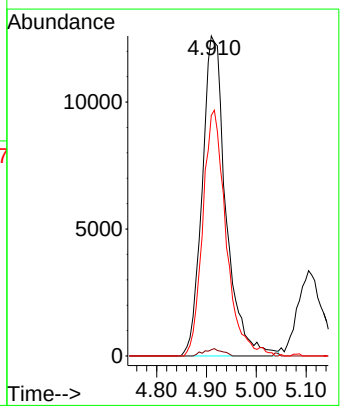
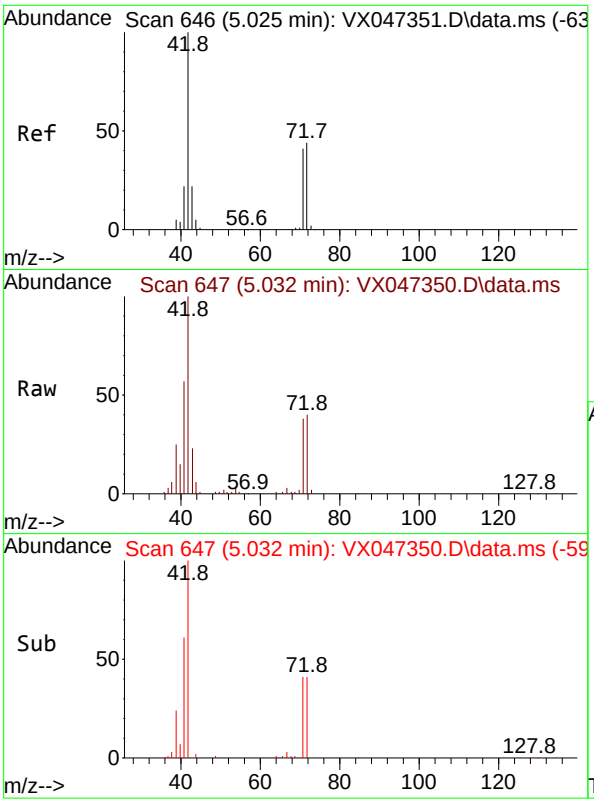


#28
Bromochloromethane
Concen: 15.812 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 49 Resp: 41717

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	74.3	59.8	89.6

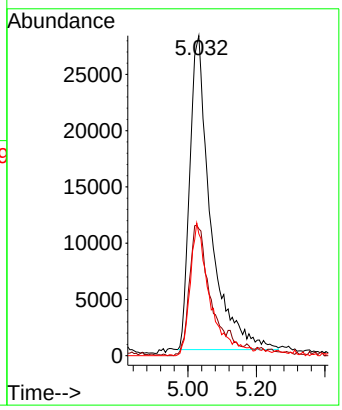




#29
Tetrahydrofuran
Concen: 102.002 ug/l
RT: 5.032 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 42 Resp: 11786

Ion	Ratio	Lower	Upper
42	100		
72	40.0	34.6	51.8
71	40.9	32.6	49.0



Instrument :
MSVOA_X
ClientSampleId :
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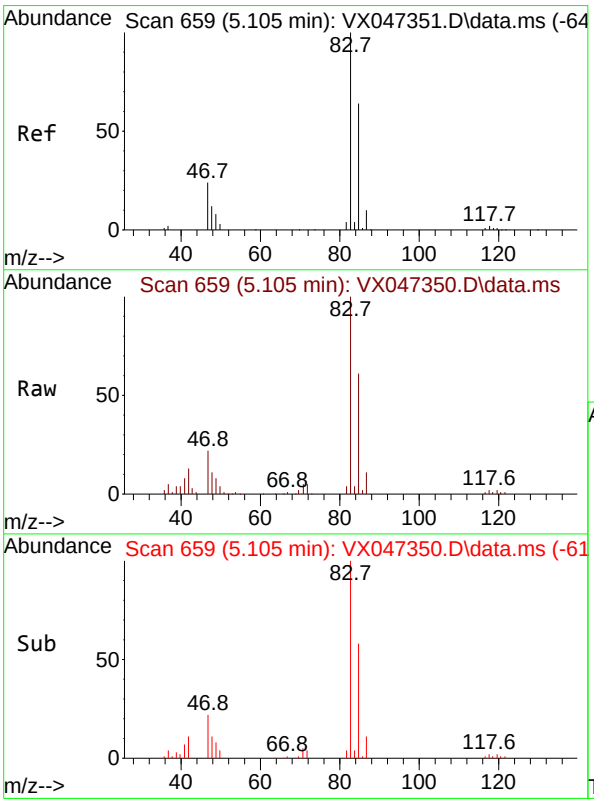
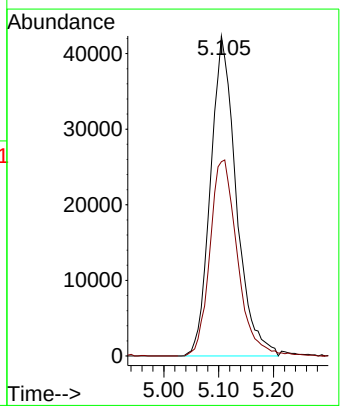
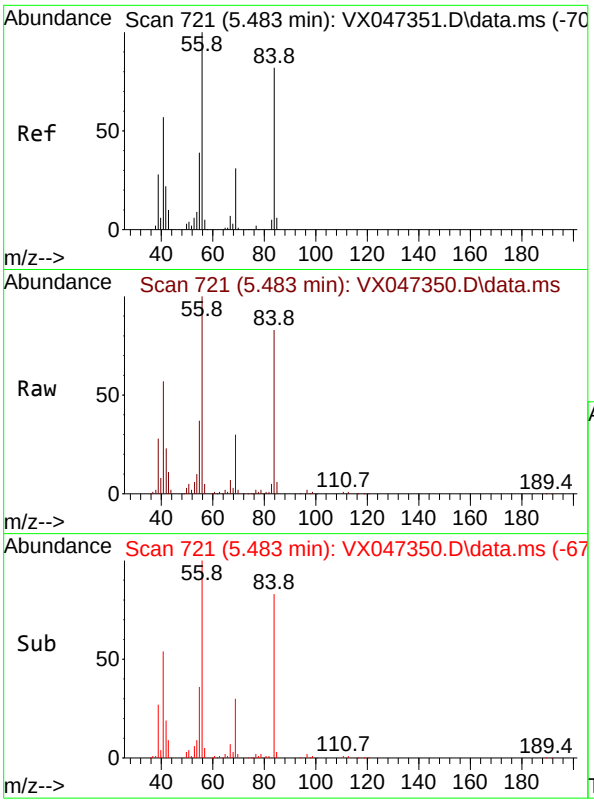


#30
Chloroform
Concen: 21.309 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 83 Resp: 137885

Ion	Ratio	Lower	Upper
83	100		
85	60.7	51.2	76.8

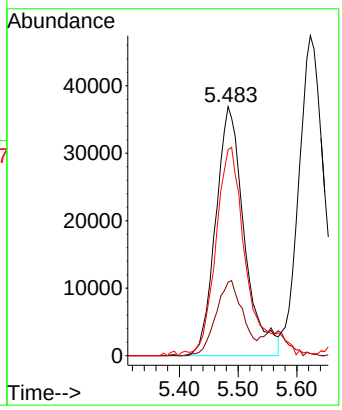




#31
Cyclohexane
Concen: 21.348 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 56 Resp: 12477

Ion	Ratio	Lower	Upper
56	100		
69	28.8	24.3	36.5
84	82.8	65.3	97.9



Instrument :
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ClientSampleId :
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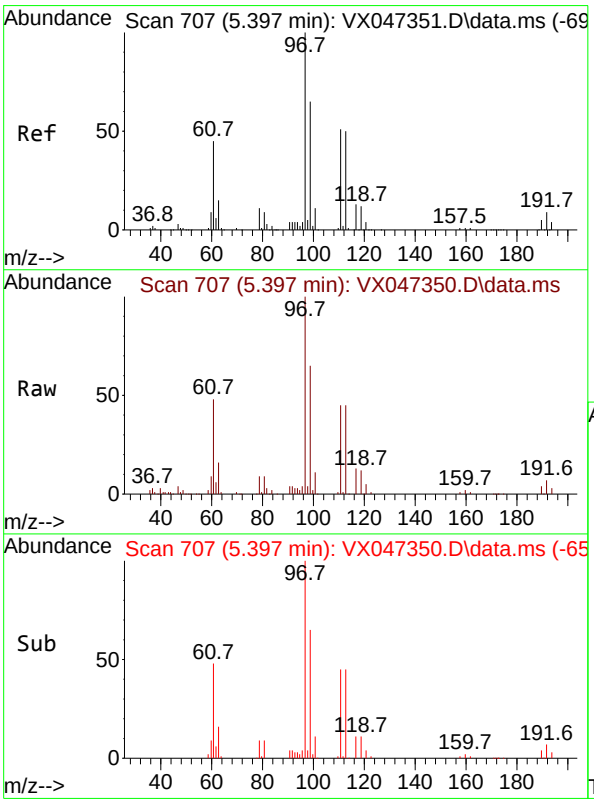
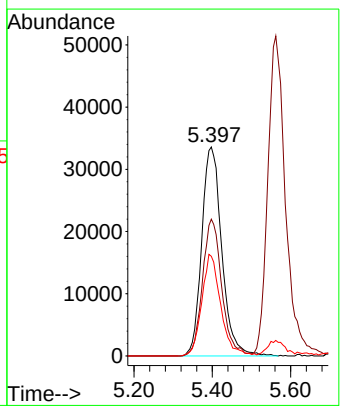
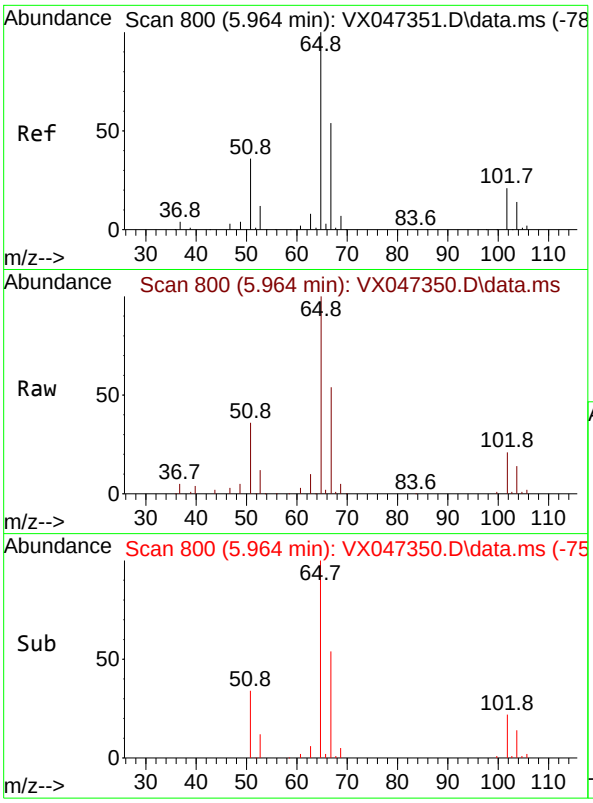


#32
1,1,1-Trichloroethane
Concen: 21.445 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 97 Resp: 119441

Ion	Ratio	Lower	Upper
97	100		
99	62.5	51.4	77.0
61	46.0	35.7	53.5

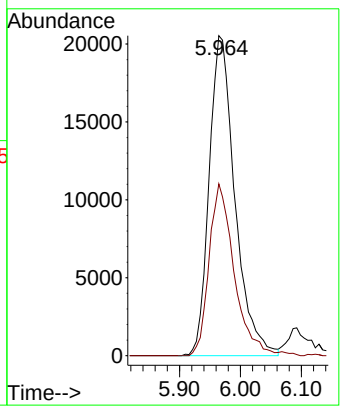




#33
1,2-Dichloroethane-d4
Concen: 16.601 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 65 Resp: 6029

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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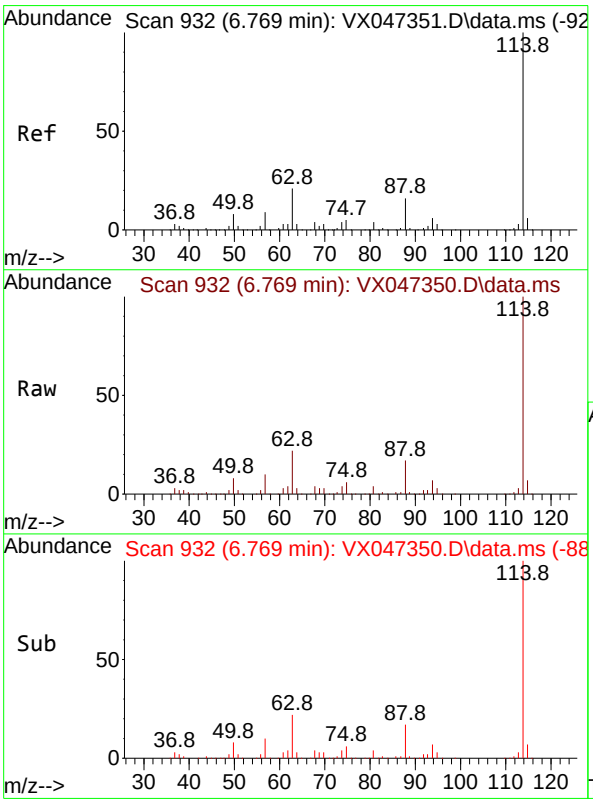
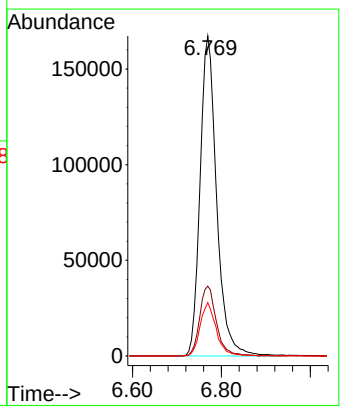
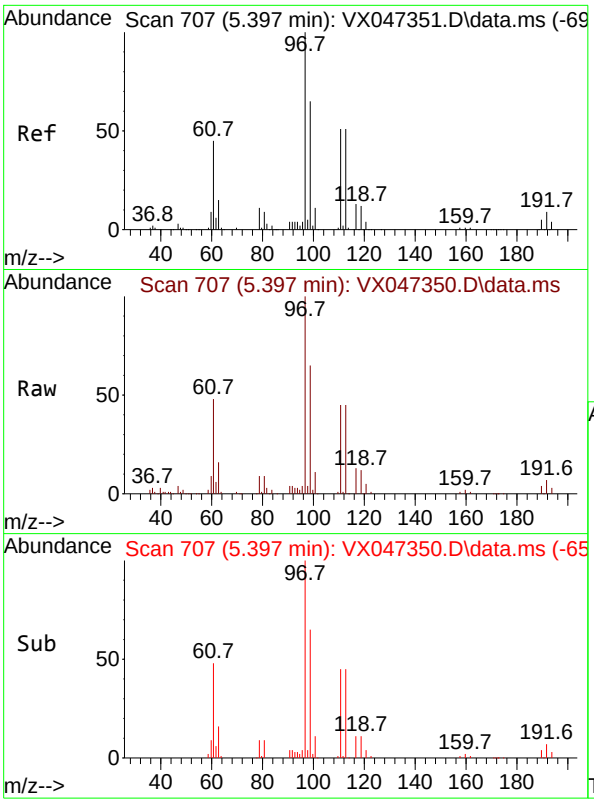


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:114 Resp: 434596

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	42.4
88	16.7	0.0	33.0

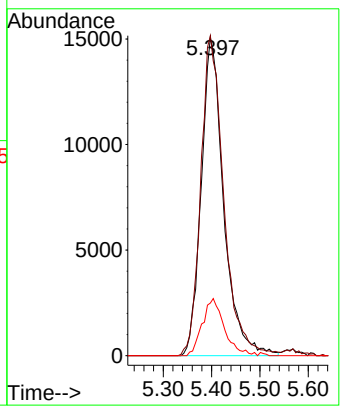




#35
Dibromofluoromethane
Concen: 17.153 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:113 Resp: 4838

Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.4	122.2
192	17.7	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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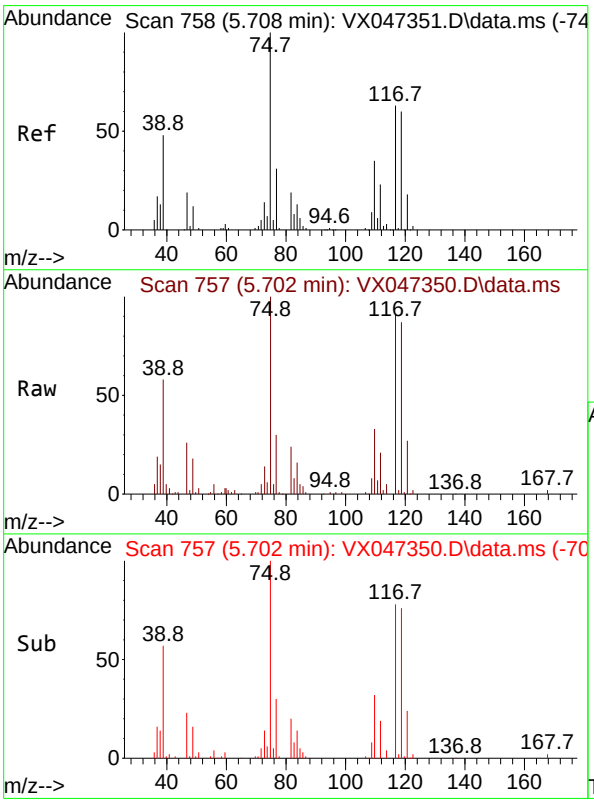
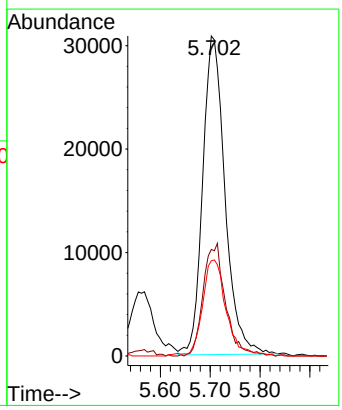
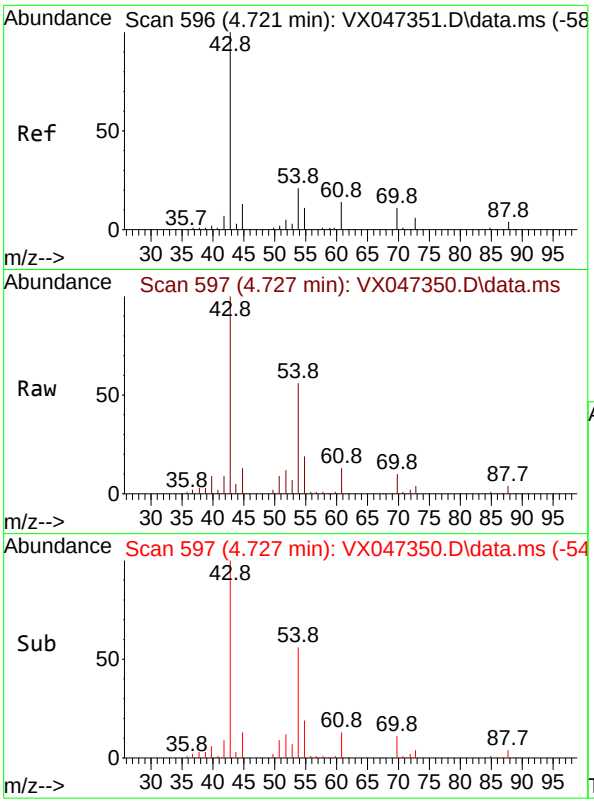


#36
1,1-Dichloropropene
Concen: 21.494 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 75 Resp: 95703

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.4	52.2
77	31.3	24.4	36.6

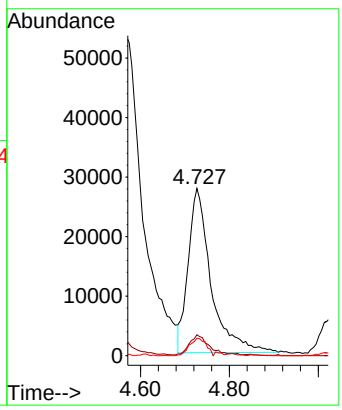




#37
Ethyl Acetate
Concen: 21.355 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 43 Resp: 9870

Ion	Ratio	Lower	Upper
43	100		
61	10.0	9.4	14.2
70	7.7	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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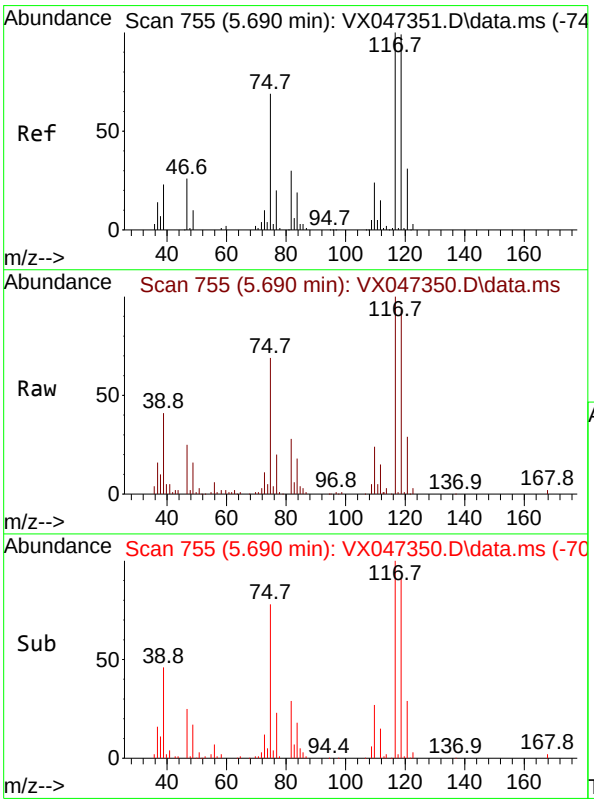
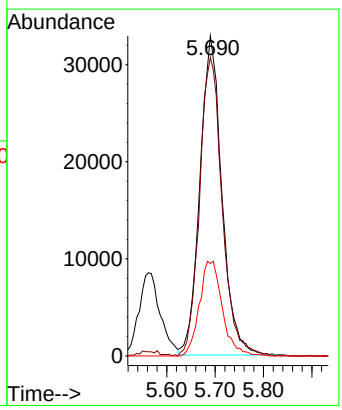
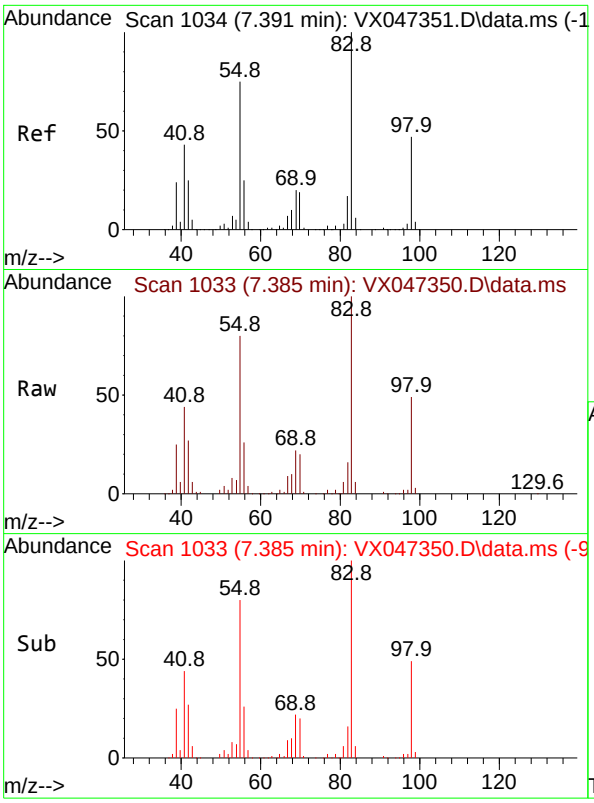


#38
Carbon Tetrachloride
Concen: 21.296 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:117 Resp: 103616

Ion	Ratio	Lower	Upper
117	100		
119	93.6	78.5	117.7
121	29.0	24.7	37.1

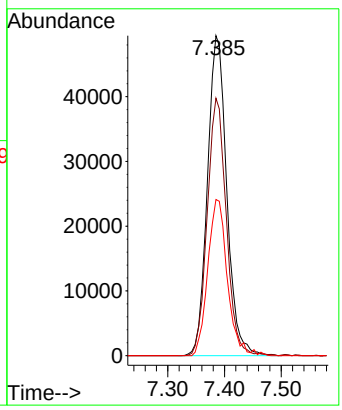




#39
Methylcyclohexane
Concen: 21.051 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 83 Resp: 11691

Ion	Ratio	Lower	Upper
83	100		
55	80.4	60.0	90.0
98	48.8	37.2	55.8



Instrument :
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ClientSampleId :
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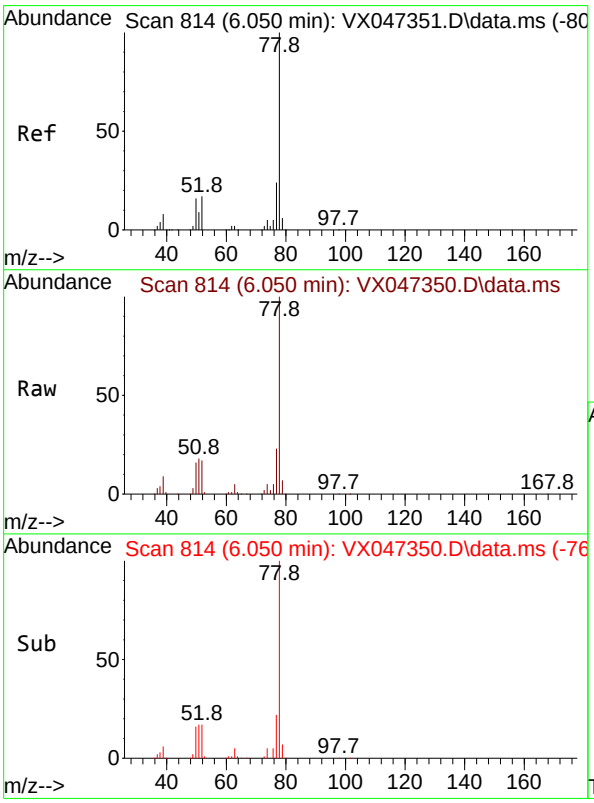
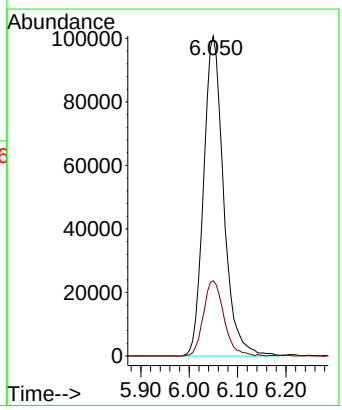
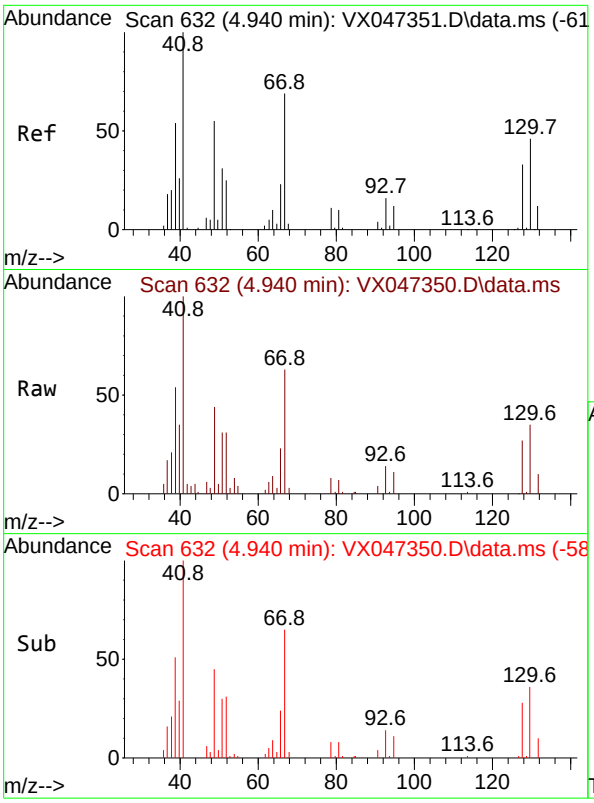


#40
Benzene
Concen: 21.716 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 78 Resp: 289406

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4

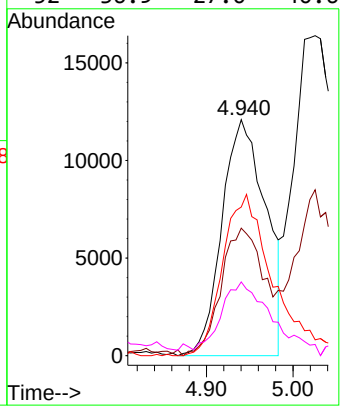




#41
Methacrylonitrile
Concen: 21.799 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 41 Resp: 4249

Ion	Ratio	Lower	Upper
41	100		
39	51.9	45.4	68.2
67	78.9	64.0	96.0
52	36.9	27.0	40.6



Instrument :
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ClientSampleId :
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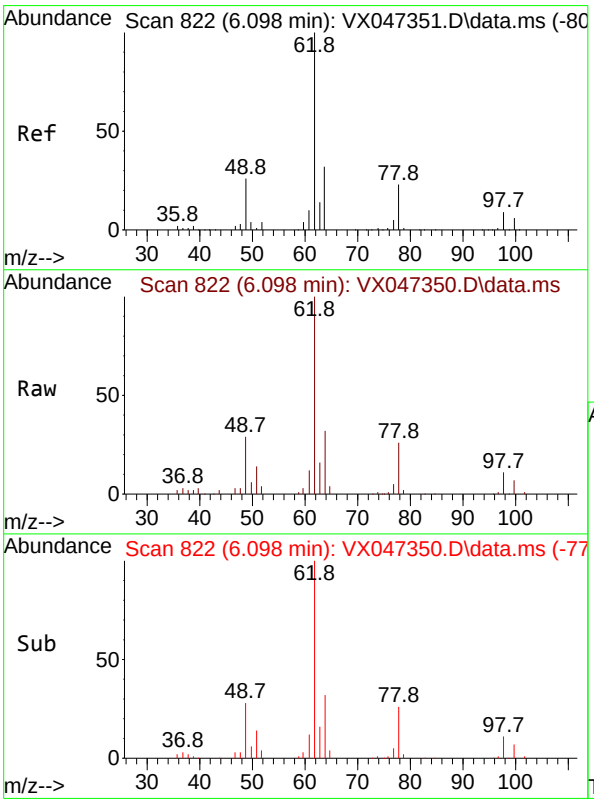
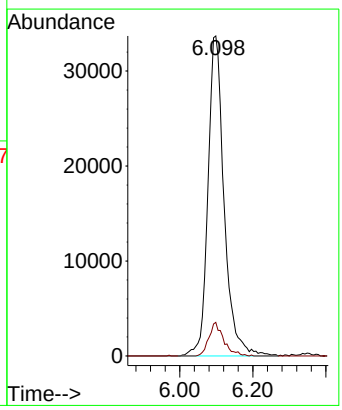
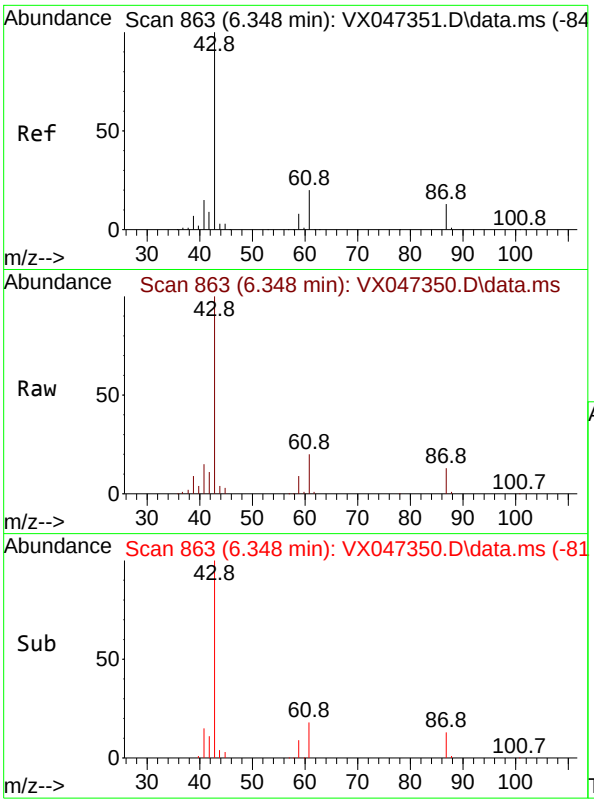


#42
1,2-Dichloroethane
Concen: 21.867 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 62 Resp: 103227

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	18.0

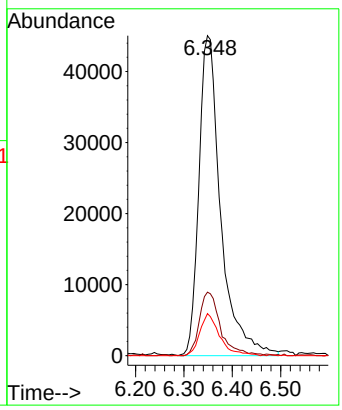




#43
Isopropyl Acetate
Concen: 21.243 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 43 Resp: 14106

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.4	23.0
87	12.0	10.2	15.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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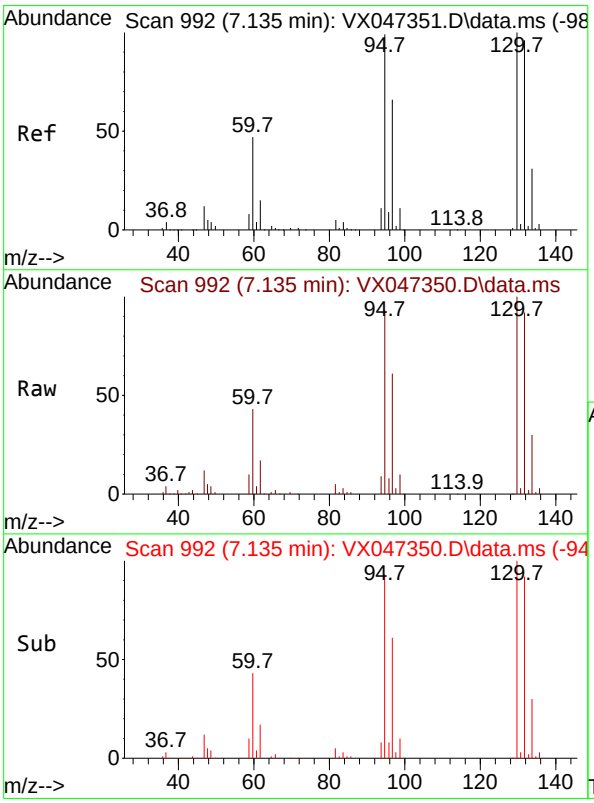
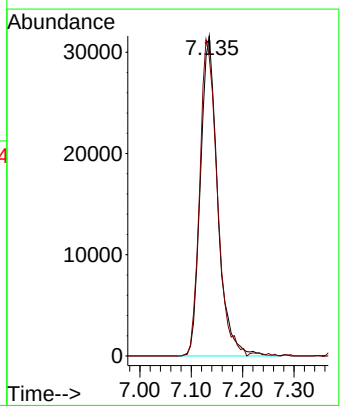
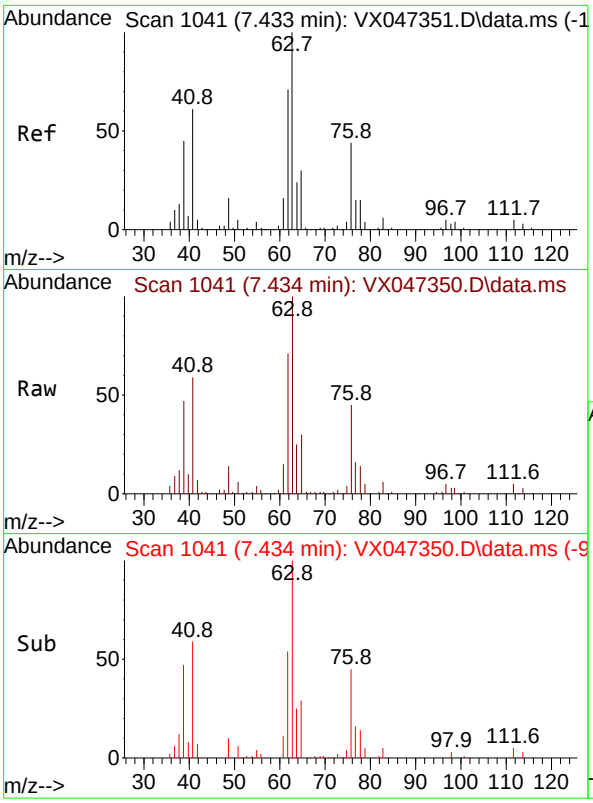


#44
Trichloroethene
Concen: 21.546 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:130 Resp: 73526

Ion	Ratio	Lower	Upper
130	100		
95	93.5	0.0	198.6

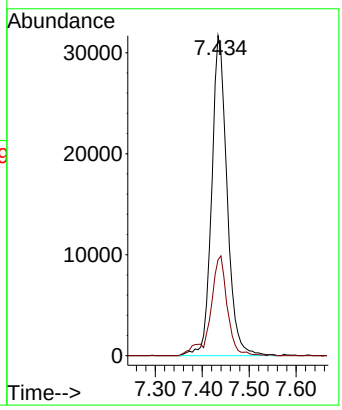




#45
1,2-Dichloropropane
Concen: 21.601 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 63 Resp: 7211

Ion	Ratio	Lower	Upper
63	100		
65	30.0	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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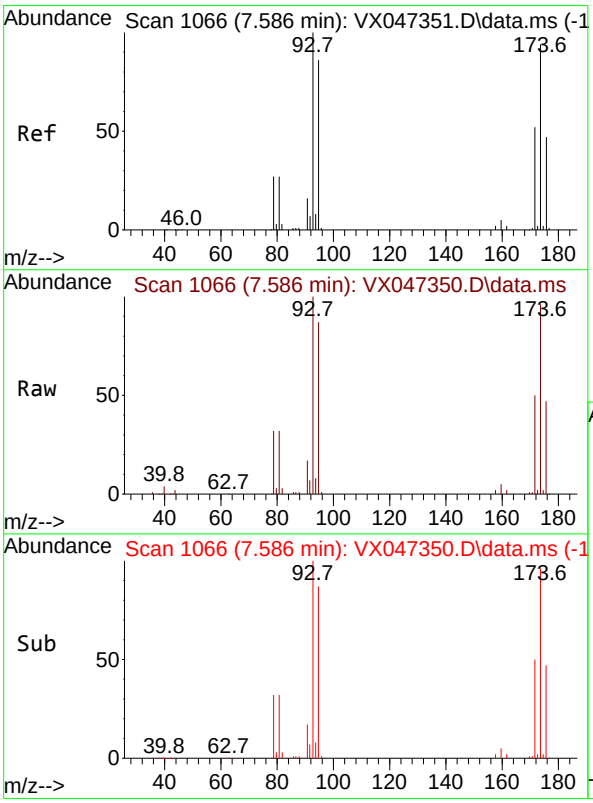
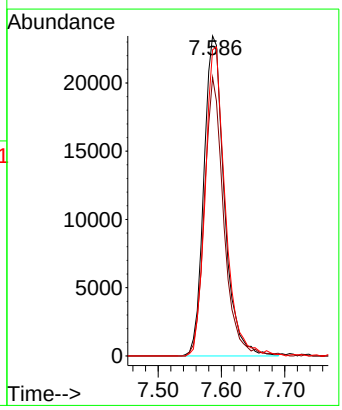
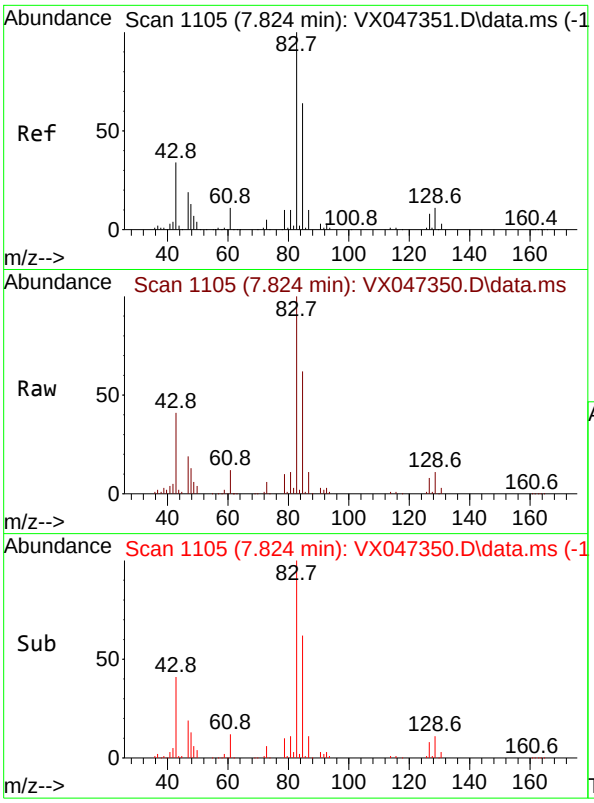


#46
Dibromomethane
Concen: 21.648 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 93 Resp: 52472

Ion	Ratio	Lower	Upper
93	100		
95	82.8	68.0	102.0
174	95.1	75.8	113.6

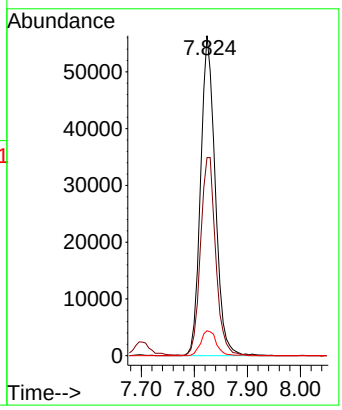




#47
Bromodichloromethane
Concen: 21.491 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 83 Resp: 10799

Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.0	76.6
127	7.8	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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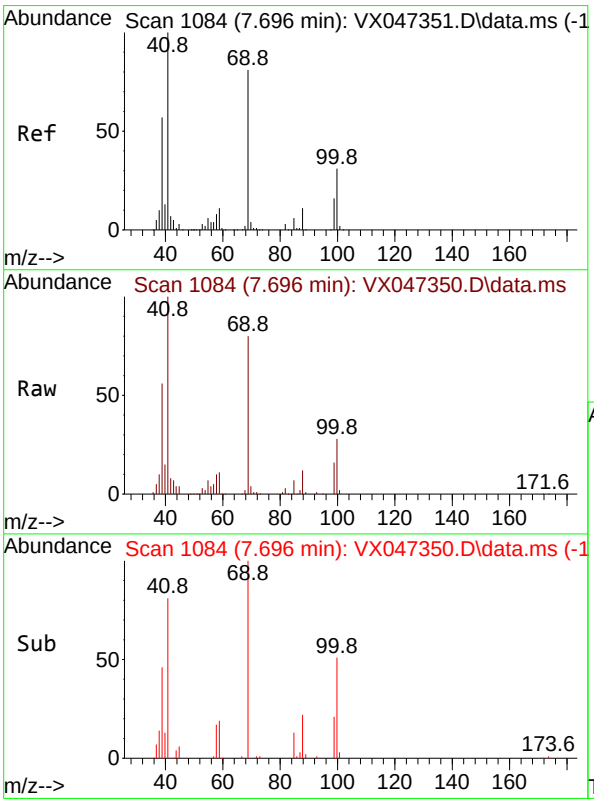
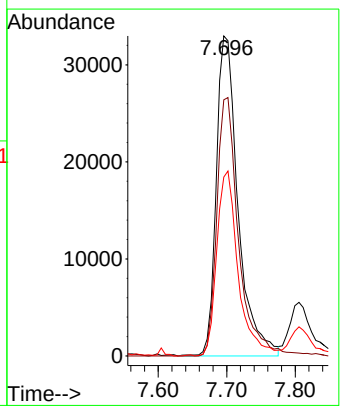
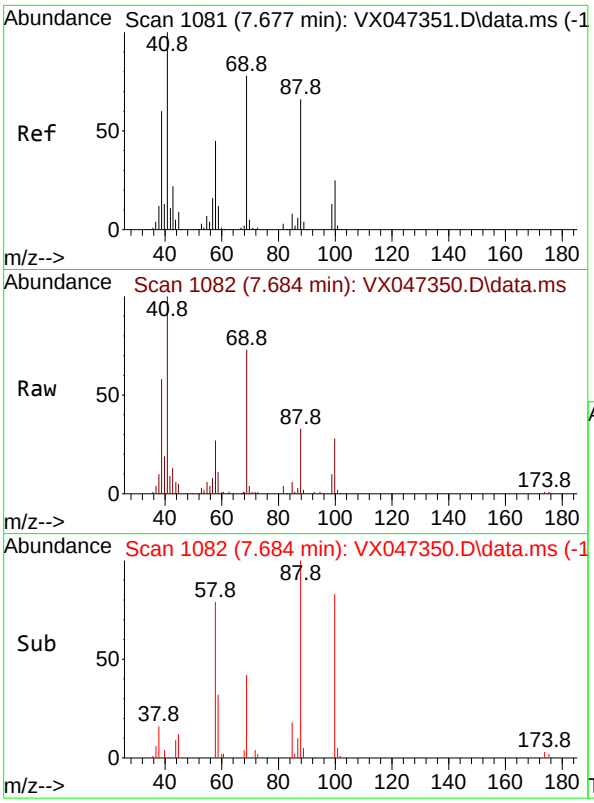


#48
Methyl methacrylate
Concen: 21.111 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 41 Resp: 72765

Ion	Ratio	Lower	Upper
41	100		
69	81.0	65.0	97.4
39	56.6	45.7	68.5

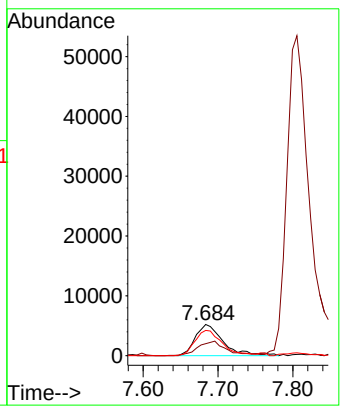




#49
1,4-Dioxane
Concen: 414.079 ug/l m
RT: 7.684 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 88 Resp: 1355

Ion	Ratio	Lower	Upper
88	100		
43	47.5	32.4	48.6
58	78.9	56.9	85.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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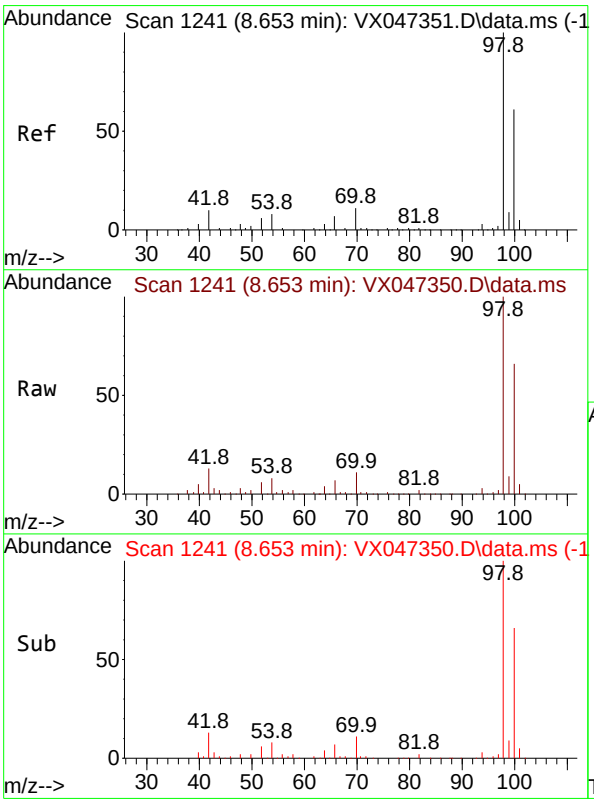
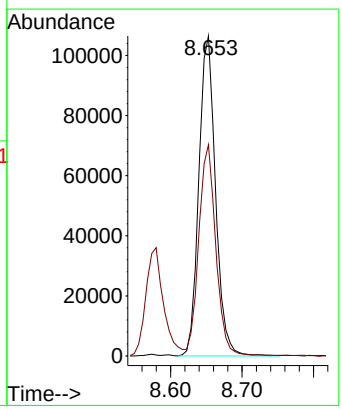
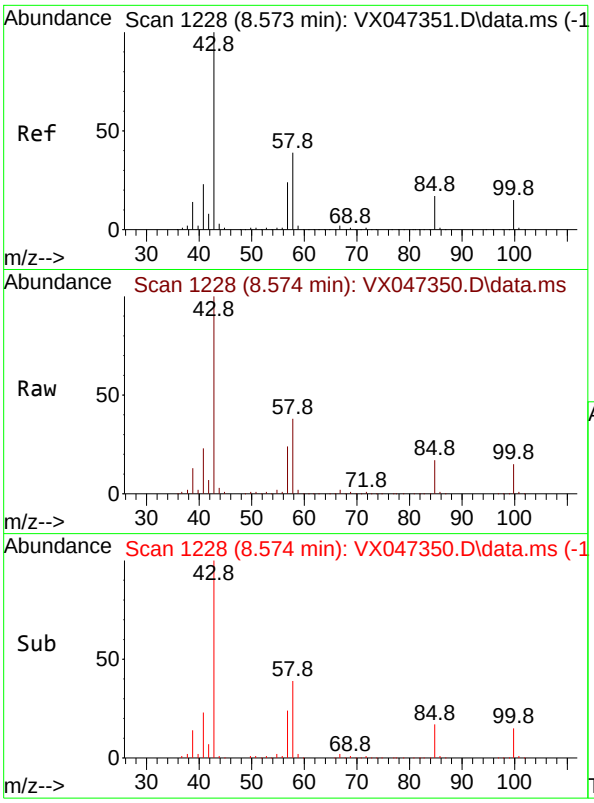


#50
Toluene-d8
Concen: 17.133 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 98 Resp: 172730

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.9	80.9

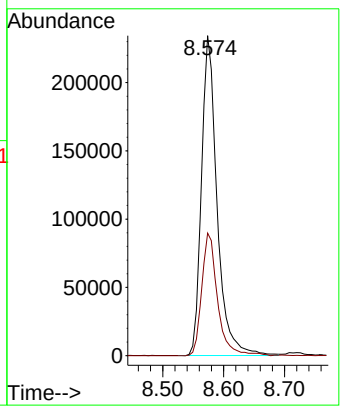




#51
4-Methyl-2-Pentanone
Concen: 109.039 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 43 Resp: 41667

Ion	Ratio	Lower	Upper
43	100		
58	38.9	31.2	46.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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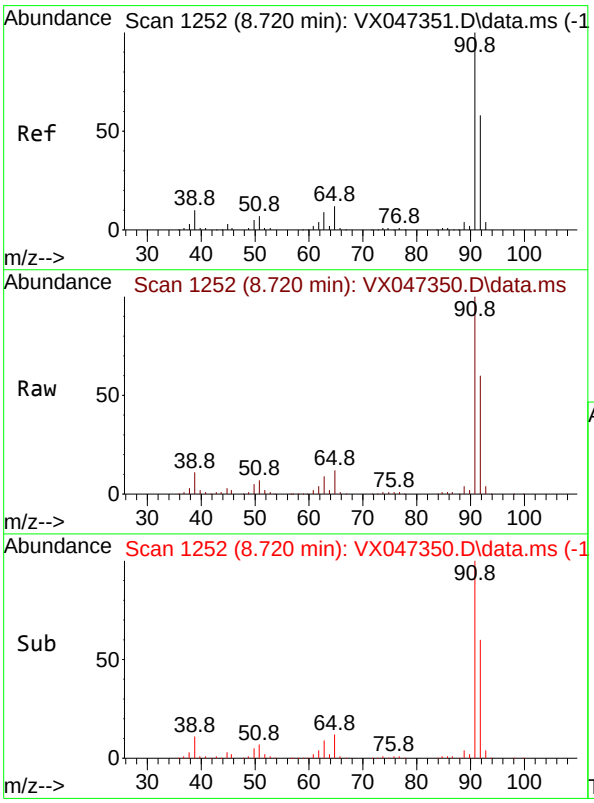
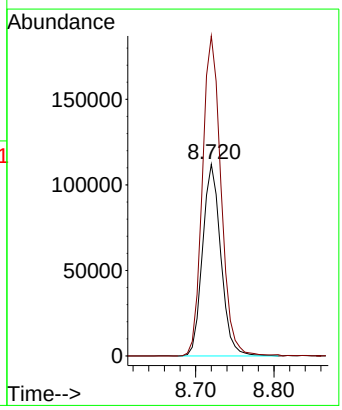
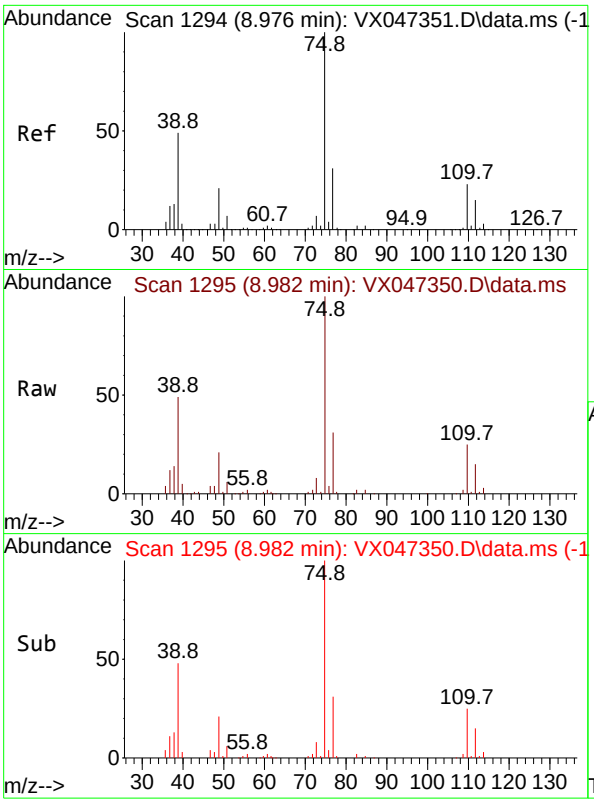


#52
Toluene
Concen: 22.024 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 92 Resp: 181368

Ion	Ratio	Lower	Upper
92	100		
91	170.3	136.3	204.5

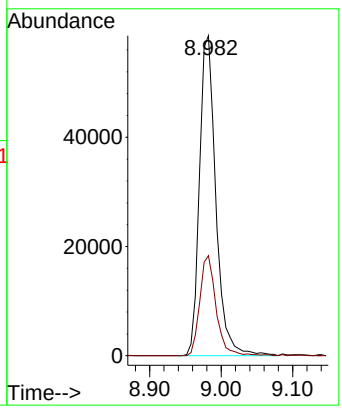




#53
t-1,3-Dichloropropene
Concen: 21.275 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 75 Resp: 9330

Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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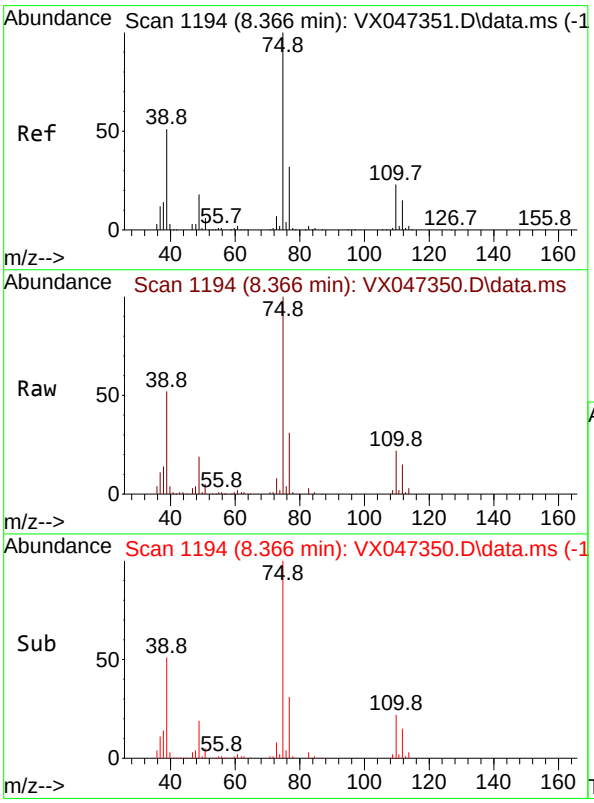
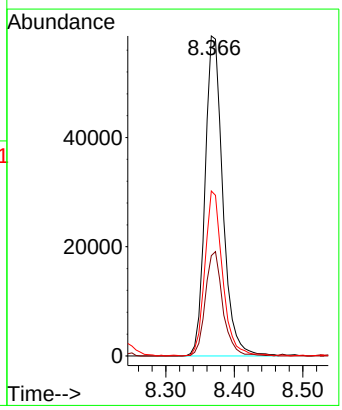
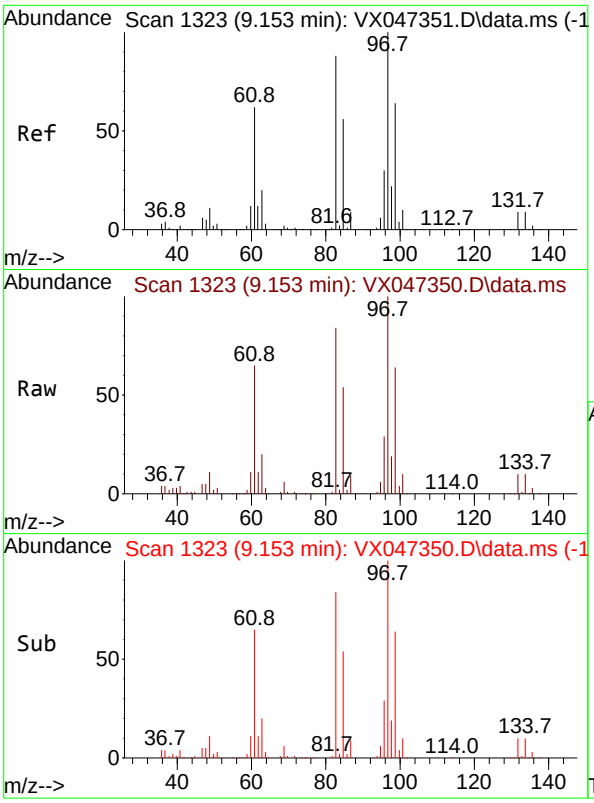


#54
cis-1,3-Dichloropropene
Concen: 21.294 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 75 Resp: 105701

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.6	38.4
39	51.4	40.9	61.3

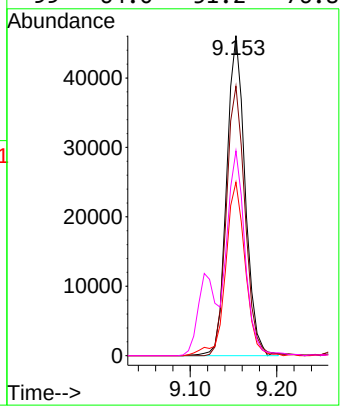




#55
1,1,2-Trichloroethane
Concen: 21.838 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 97 Resp: 6828

Ion	Ratio	Lower	Upper
97	100		
83	84.2	70.6	106.0
85	54.2	44.7	67.1
99	64.0	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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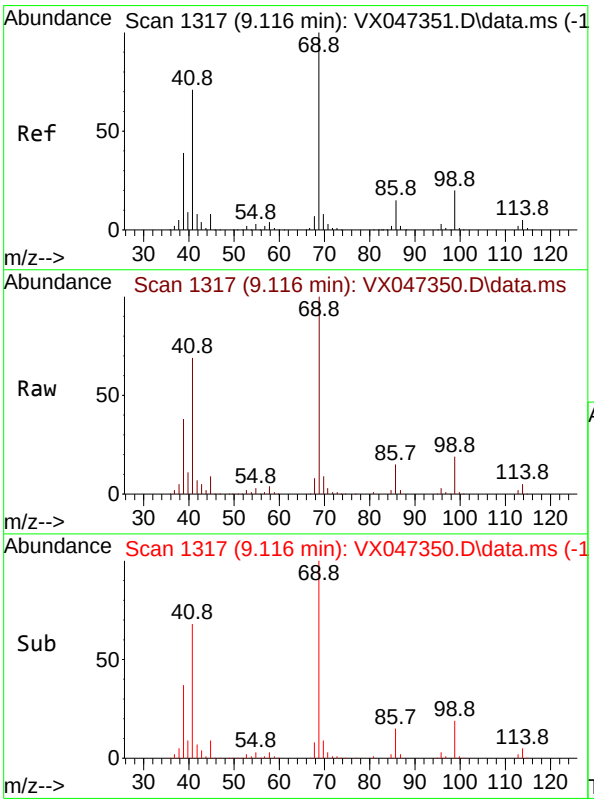
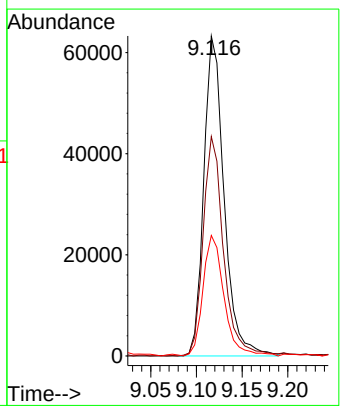
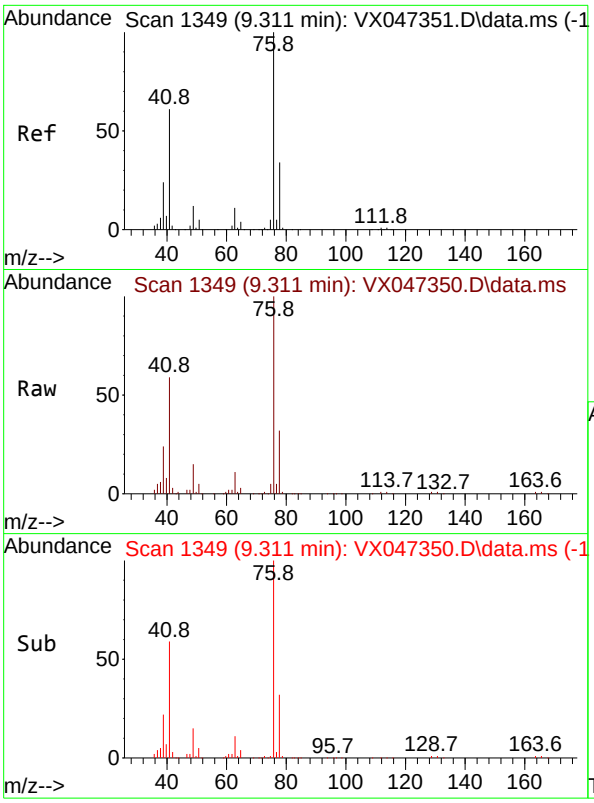


#56
Ethyl methacrylate
Concen: 21.188 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 69 Resp: 97675

Ion	Ratio	Lower	Upper
69	100		
41	68.9	55.3	82.9
39	39.0	30.2	45.2





#57
1,3-Dichloropropane
Concen: 21.910 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 76 Resp: 11673

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.2	39.2

Instrument :
MSVOA_X
ClientSampleId :
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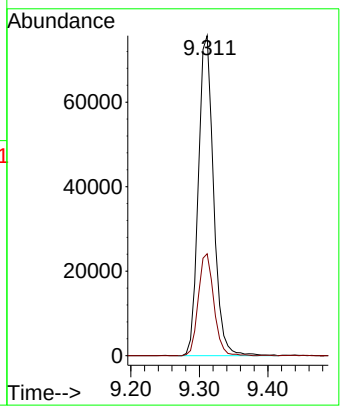
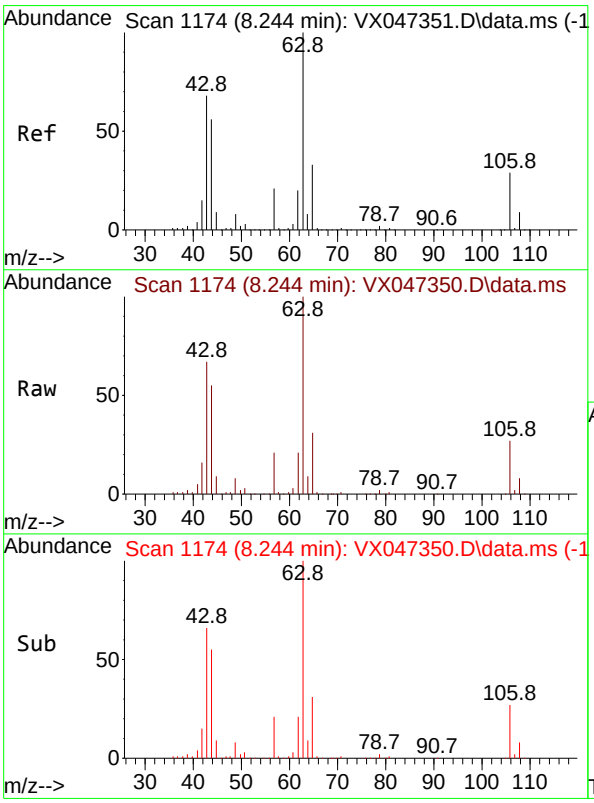
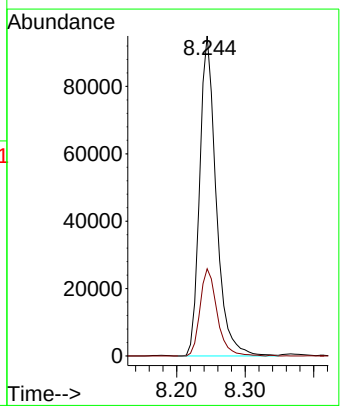


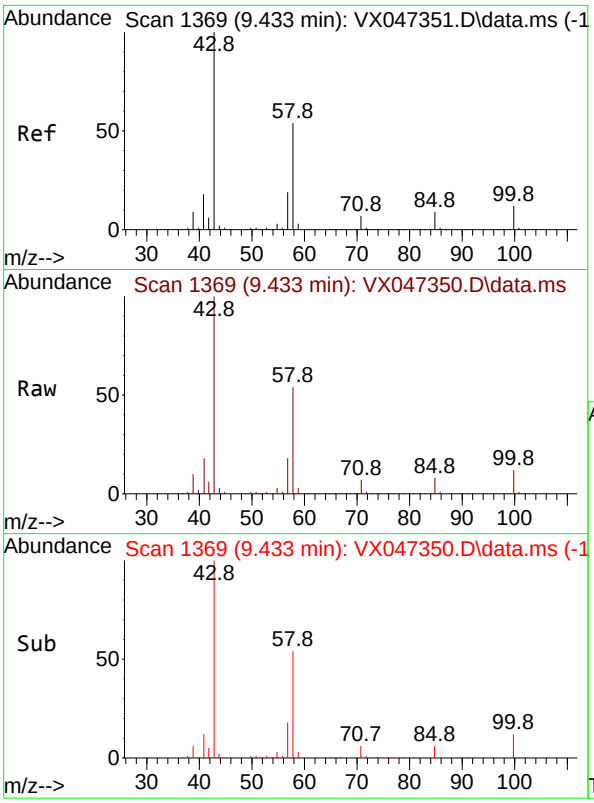


#58
2-Chloroethyl Vinyl ether
Concen: 78.521 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 63 Resp: 159793

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.8	34.2





#59
2-Hexanone
Concen: 111.182 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 43 Resp: 29388

Ion	Ratio	Lower	Upper
43	100		
58	53.7	26.9	80.7

Instrument :
MSVOA_X
ClientSampleId :
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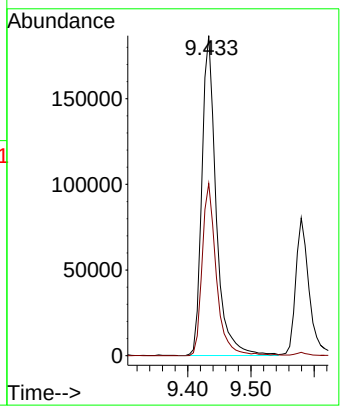
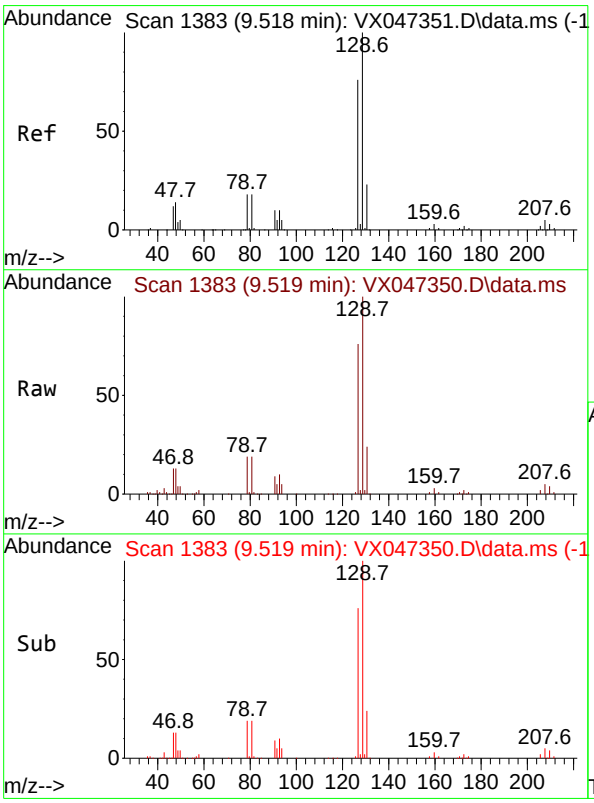
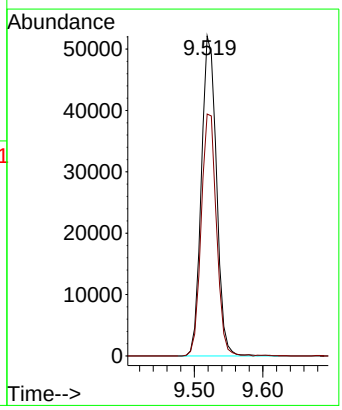


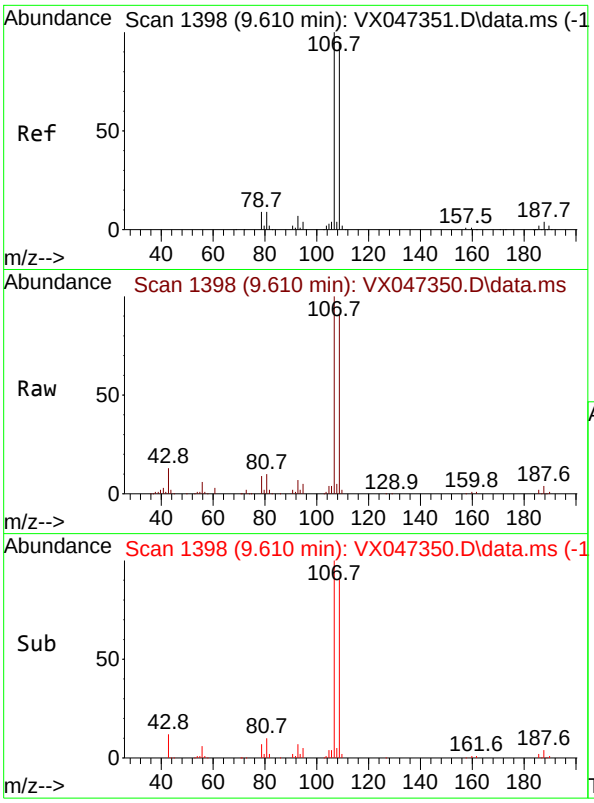


#60
Dibromochloromethane
Concen: 21.561 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:129 Resp: 80119

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.9	116.6

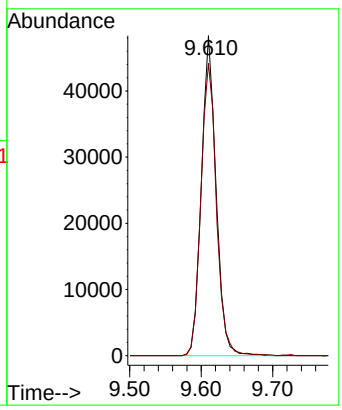




#61
1,2-Dibromoethane
Concen: 21.388 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:107 Resp: 6896

Ion	Ratio	Lower	Upper
107	100		
109	96.3	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
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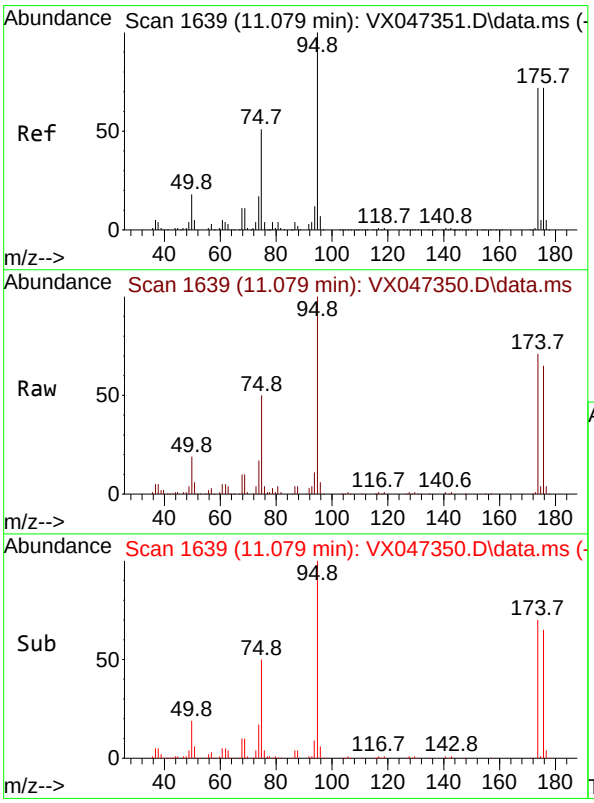
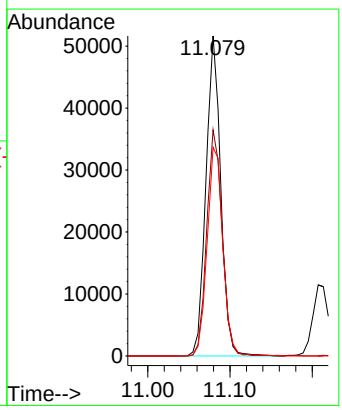
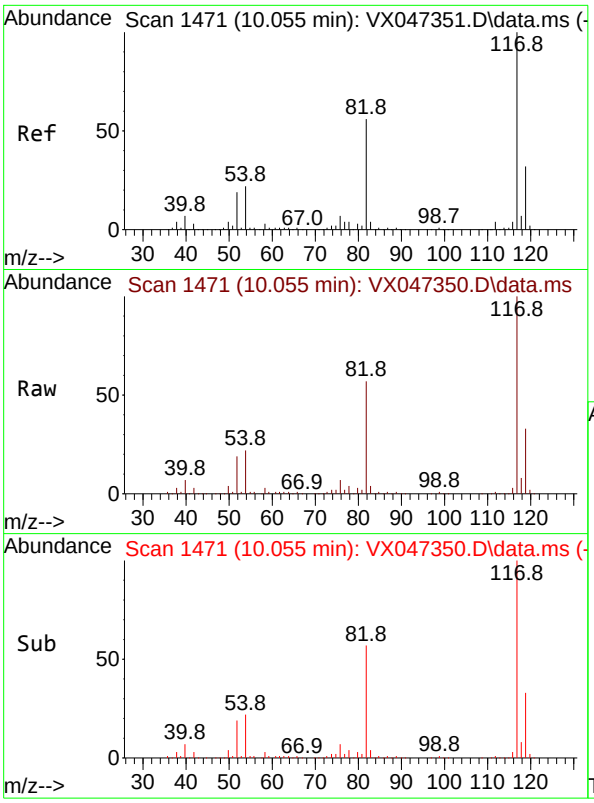


#62
4-Bromofluorobenzene
Concen: 17.320 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 95 Resp: 64433

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	148.0
176	69.1	0.0	145.4

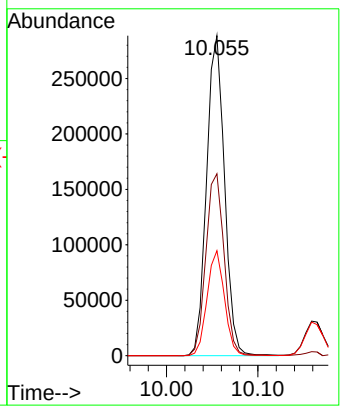




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:117 Resp: 39236

Ion	Ratio	Lower	Upper
117	100		
82	56.9	45.0	67.4
119	32.8	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
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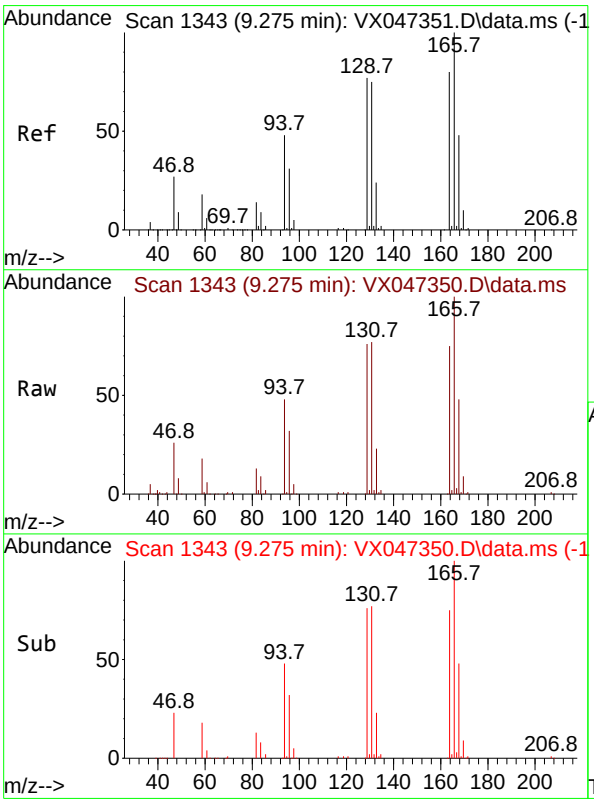
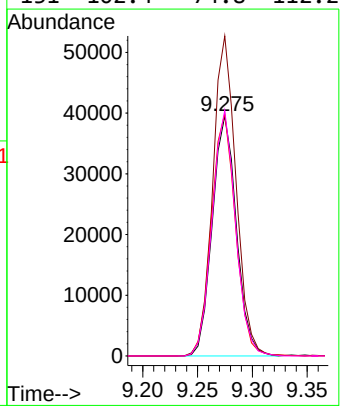
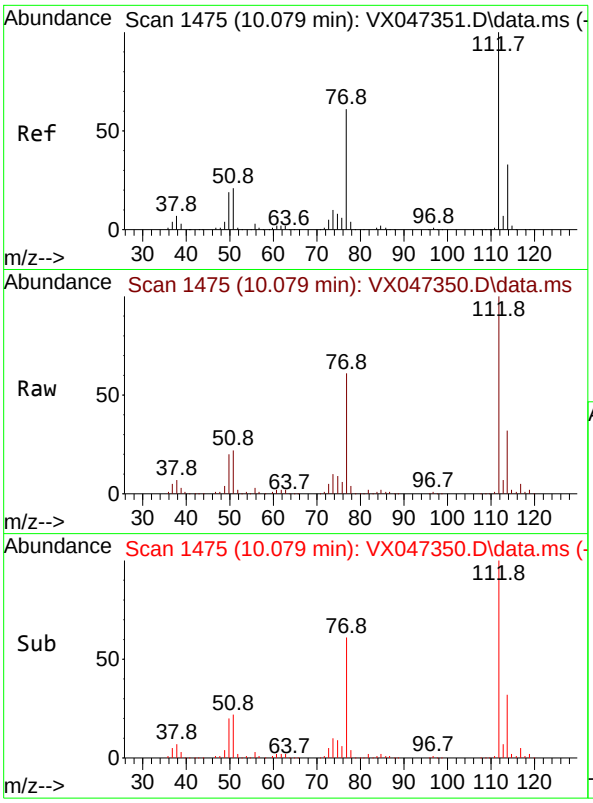


#64
Tetrachloroethene
Concen: 21.257 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:164 Resp: 60329

Ion	Ratio	Lower	Upper
164	100		
166	133.4	100.3	150.5
129	101.0	77.7	116.5
131	102.4	74.8	112.2

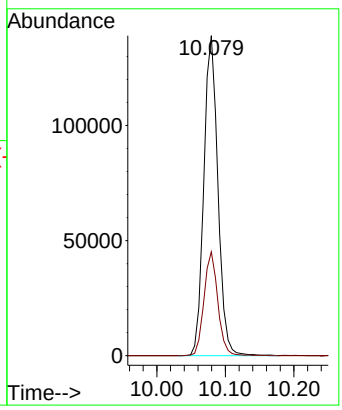




#65
Chlorobenzene
Concen: 21.342 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:112 Resp: 19899

Ion	Ratio	Lower	Upper
112	100		
114	32.4	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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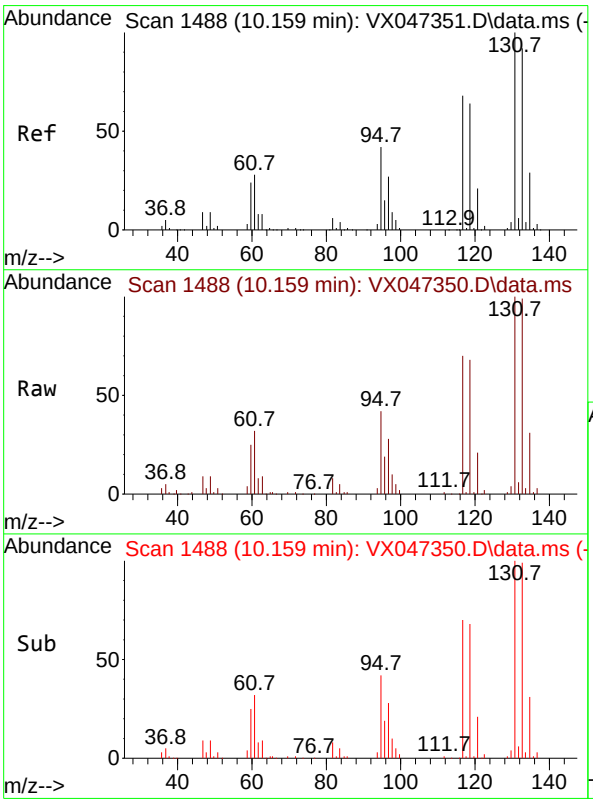
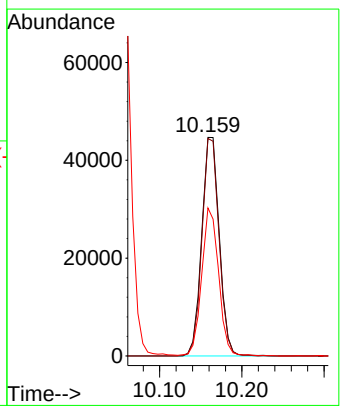
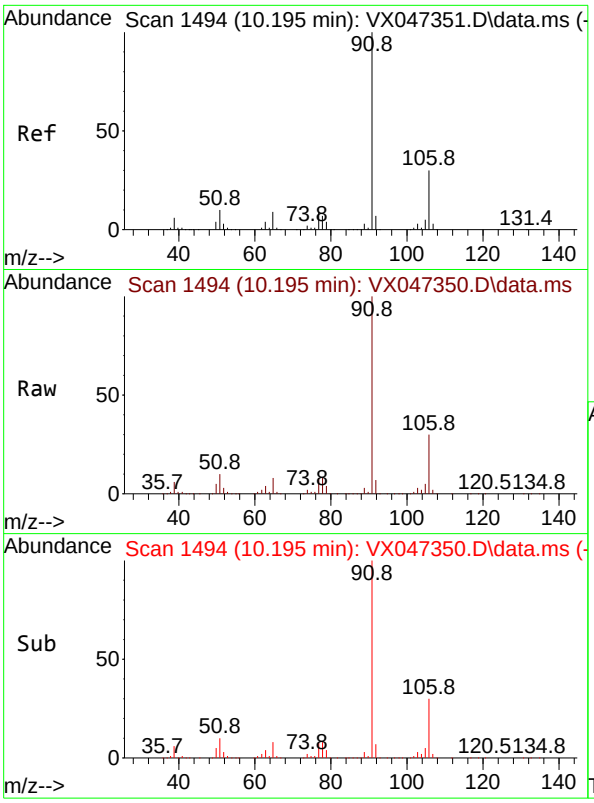


#66
1,1,1,2-Tetrachloroethane
Concen: 21.056 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:131 Resp: 66366

Ion	Ratio	Lower	Upper
131	100		
133	96.5	47.6	142.9
119	65.4	32.3	96.8

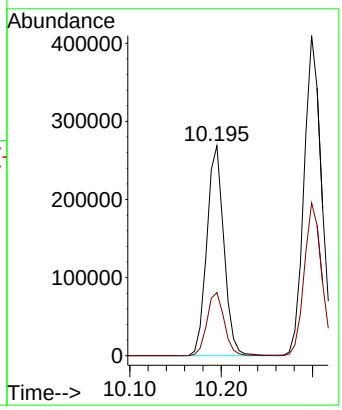




#67
Ethyl Benzene
Concen: 21.675 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 91 Resp: 34783

Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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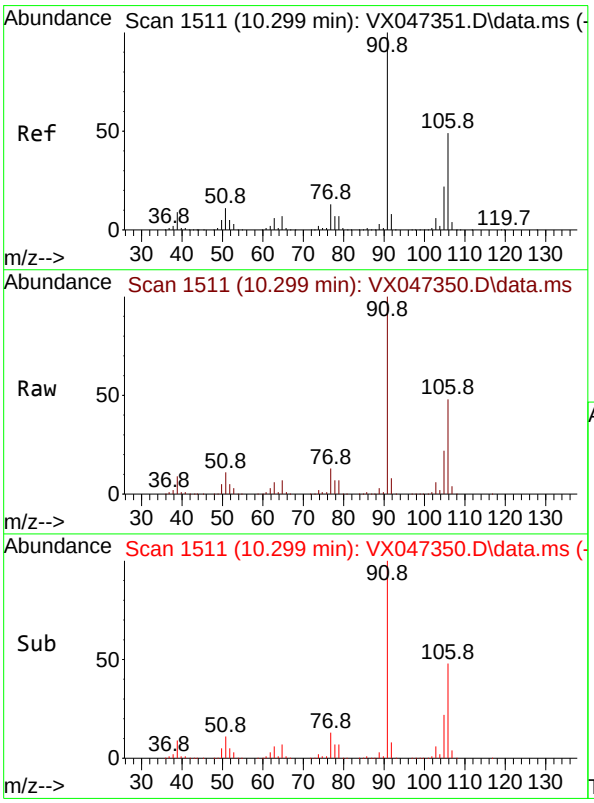
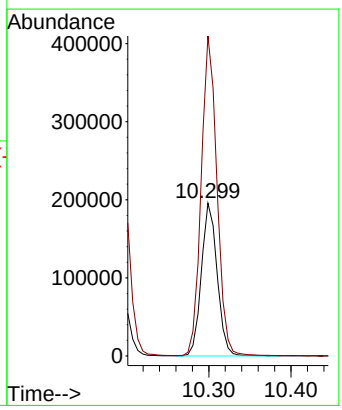
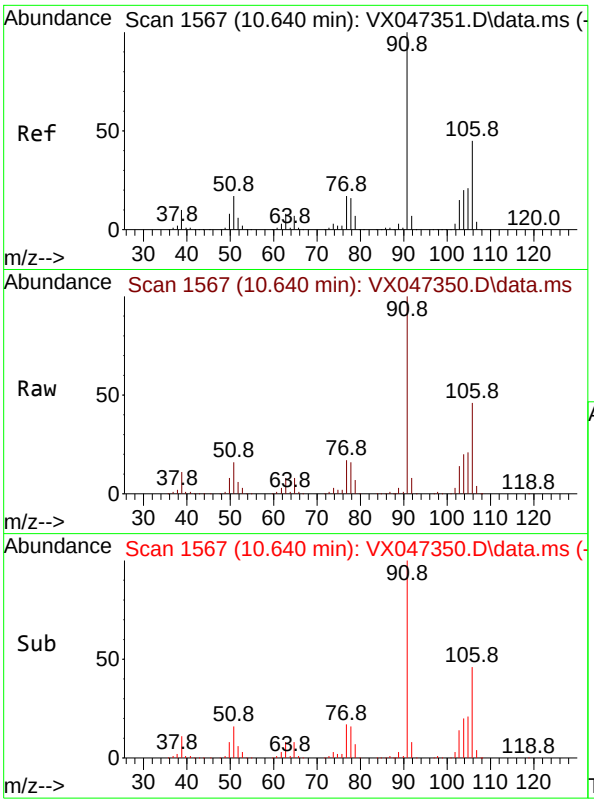


#68
m/p-Xylenes
Concen: 43.608 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:106 Resp: 260945

Ion	Ratio	Lower	Upper
106	100		
91	209.5	164.7	247.1

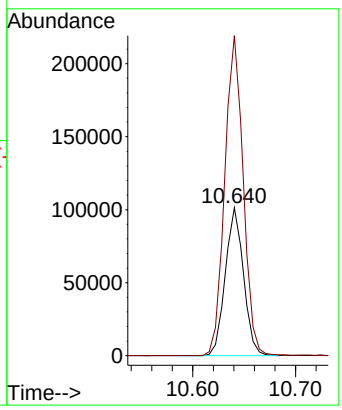




#69
o-Xylene
Concen: 21.606 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:106 Resp: 12442

Ion	Ratio	Lower	Upper
106	100		
91	219.7	110.6	331.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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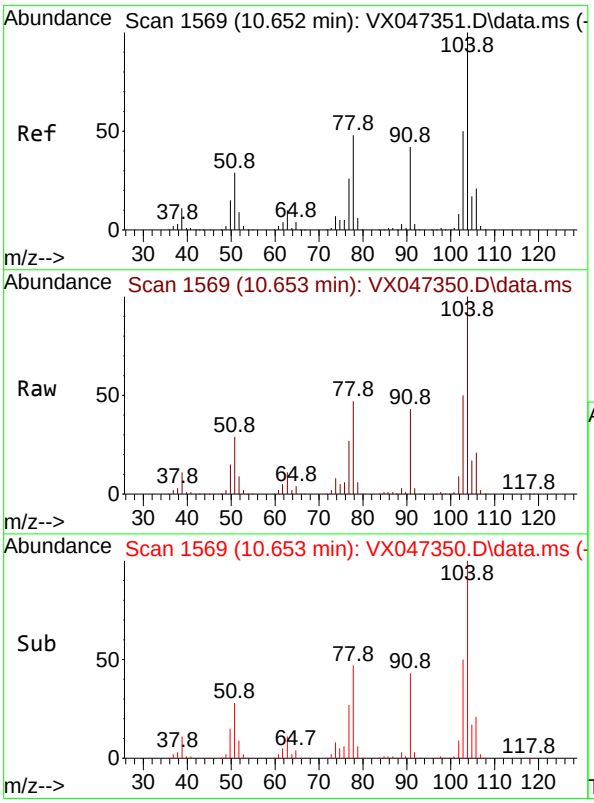
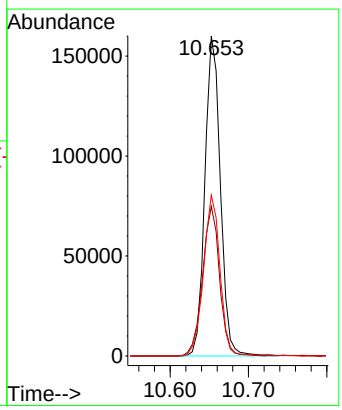
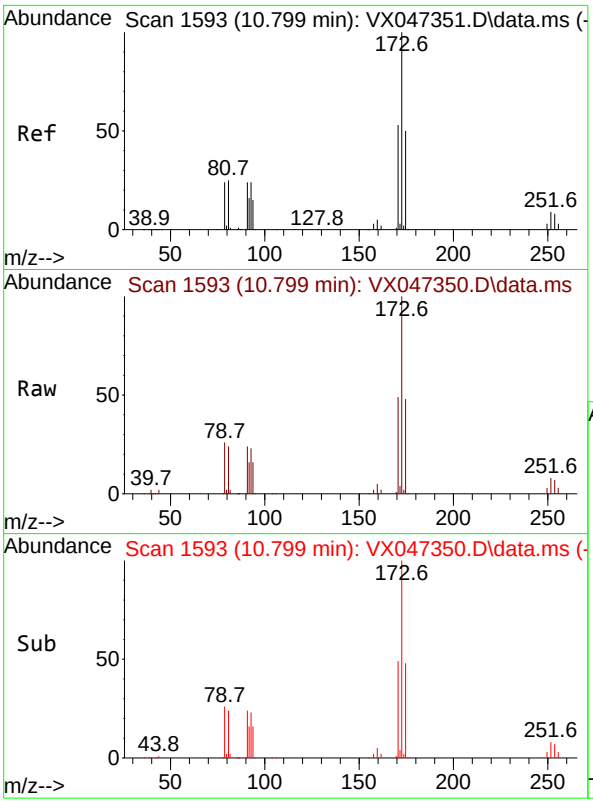


#70
Styrene
Concen: 22.540 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:104 Resp: 219310

Ion	Ratio	Lower	Upper
104	100		
78	51.4	41.8	62.8
103	53.6	43.6	65.4

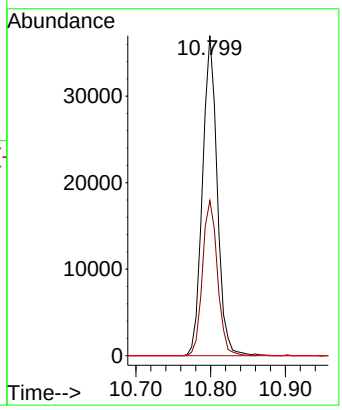




#71
Bromoform
Concen: 21.335 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:173 Resp: 5051

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.4	73.4
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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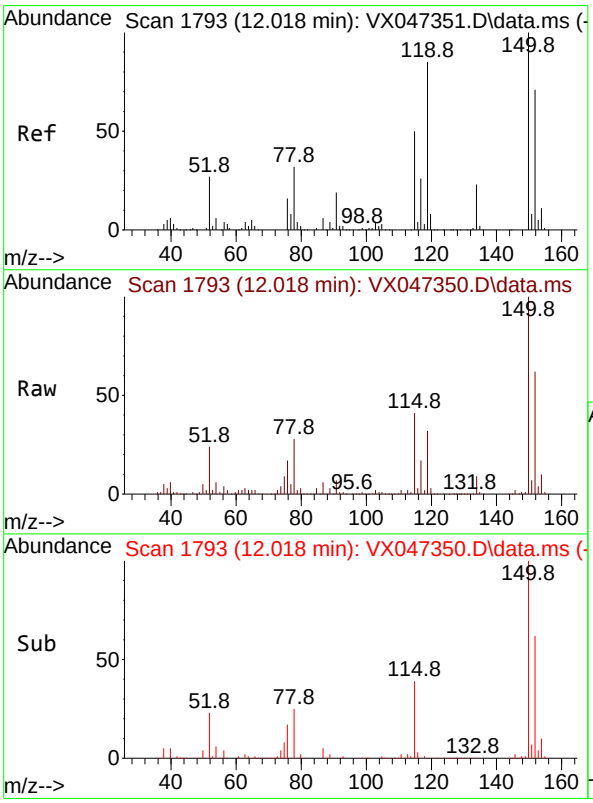
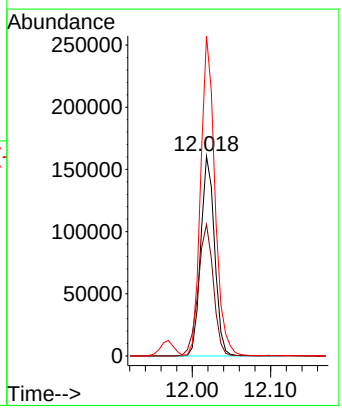
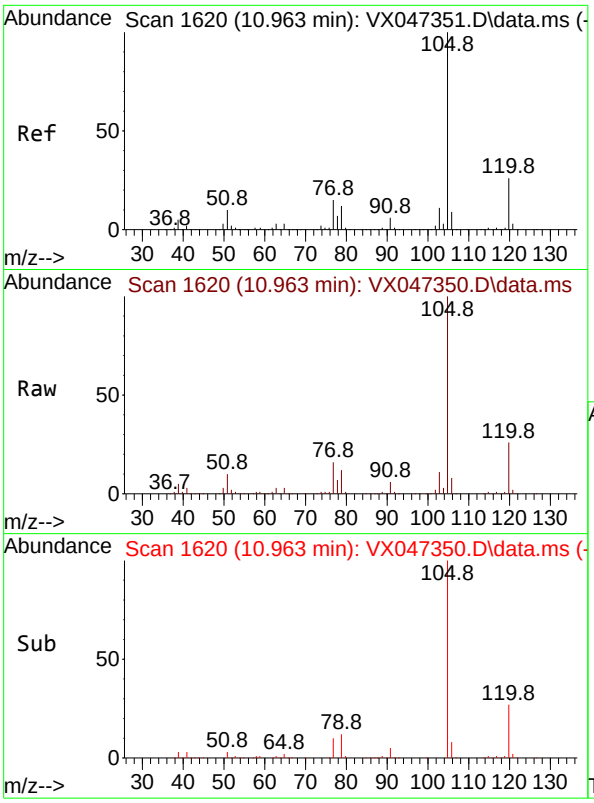


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:152 Resp: 196732

Ion	Ratio	Lower	Upper
152	100		
115	72.6	44.6	133.8
150	164.5	0.0	349.8





#73
Isopropylbenzene
Concen: 21.425 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:105 Resp: 32984

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.9	38.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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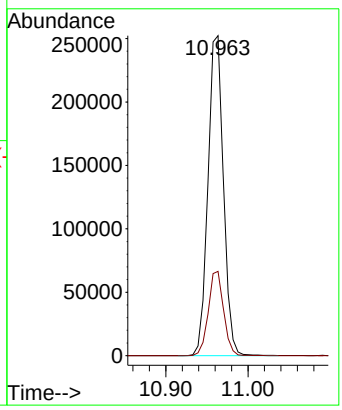
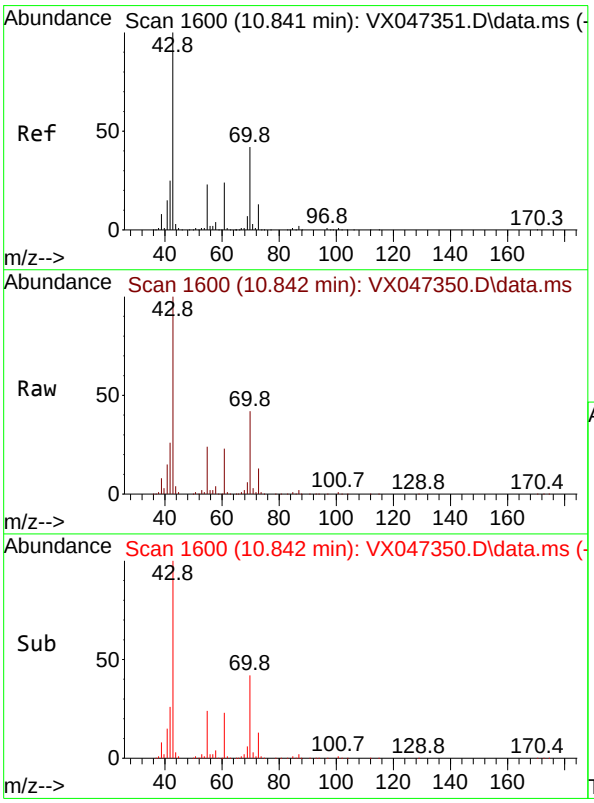
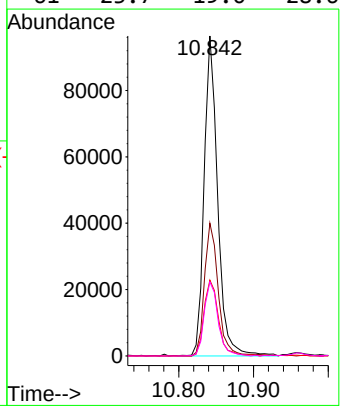


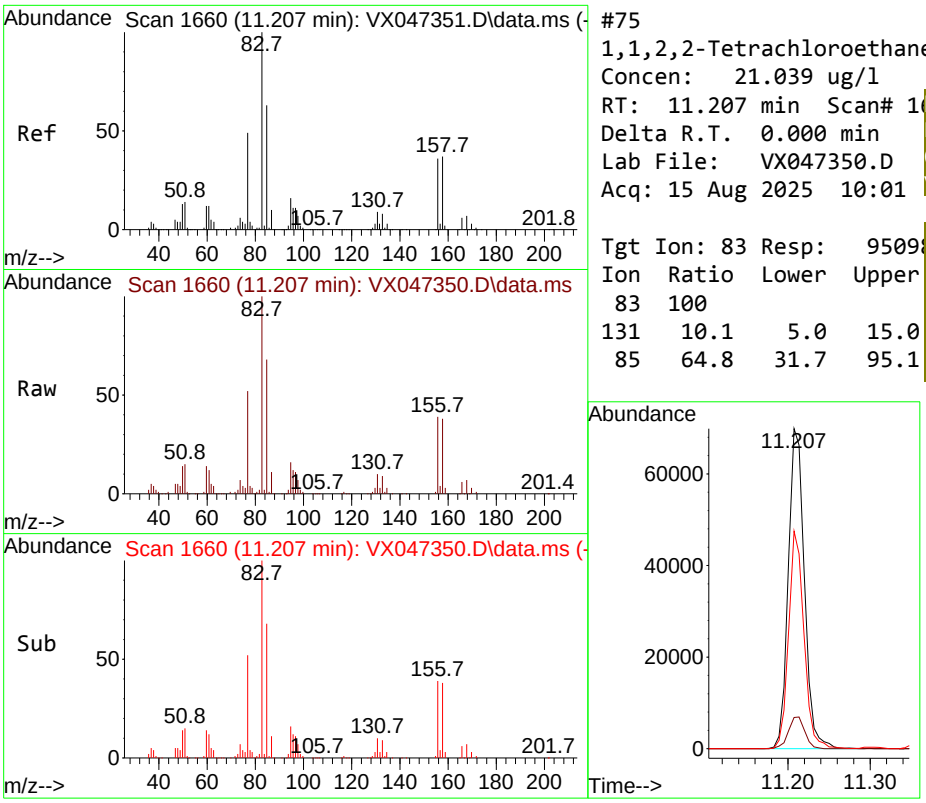


#74
N-amyl acetate
Concen: 20.717 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 43 Resp: 121116

Ion	Ratio	Lower	Upper
43	100		
70	42.8	33.1	49.7
55	25.4	19.0	28.6
61	23.7	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 21.039 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 83 Resp: 9509

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	15.0
85	64.8	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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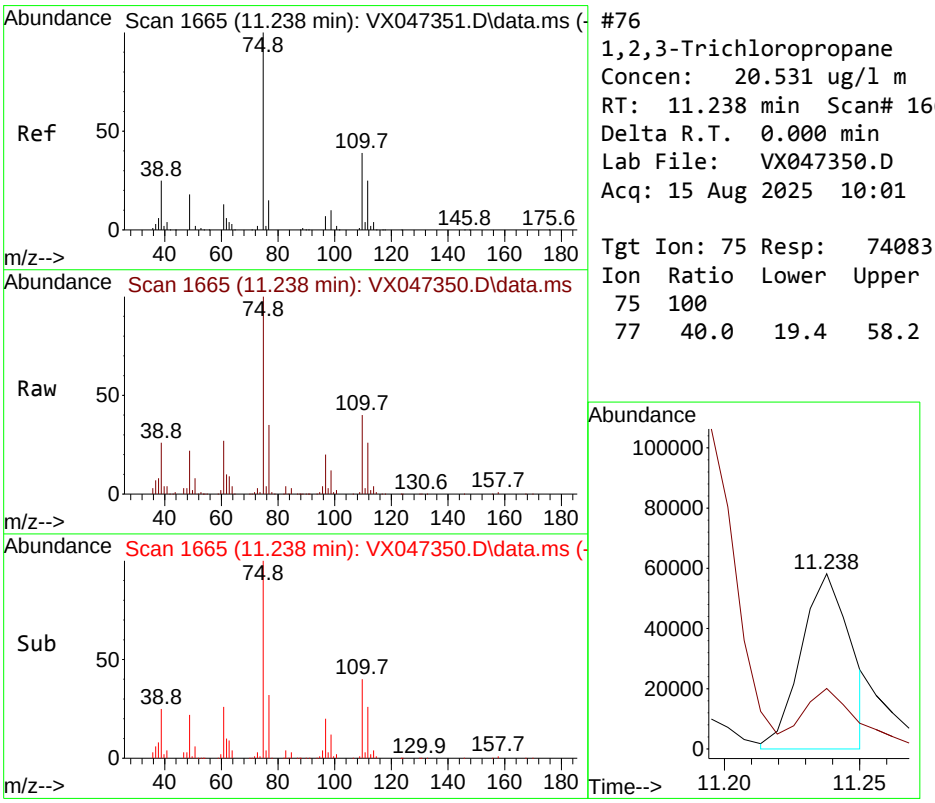
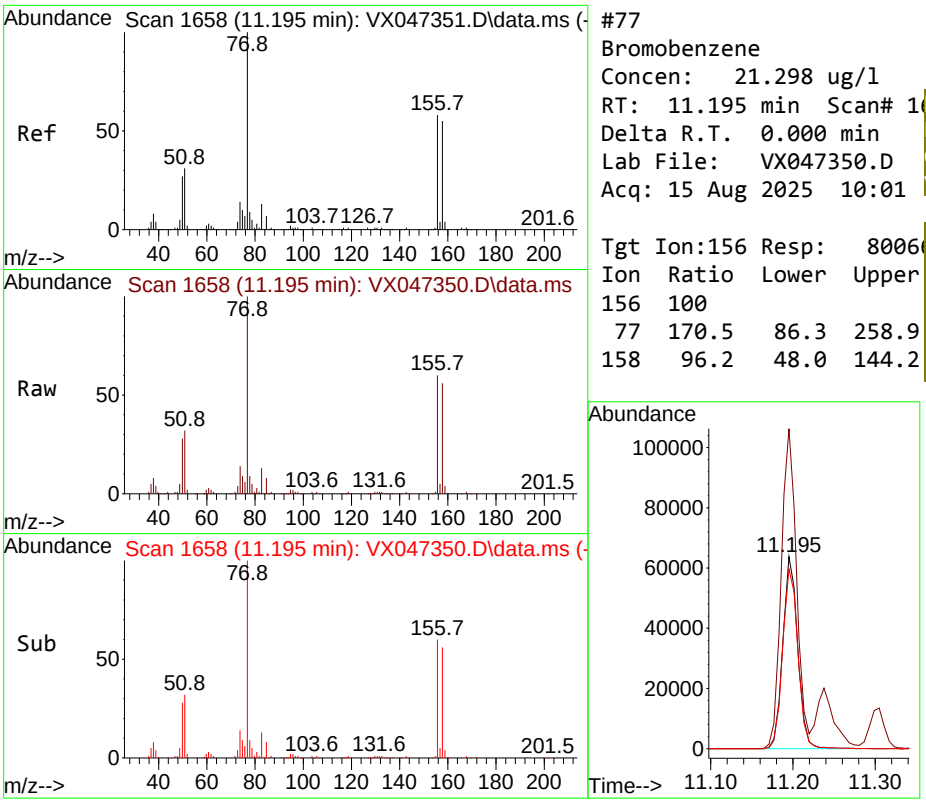


#76
1,2,3-Trichloropropane
Concen: 20.531 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 75 Resp: 74083

Ion	Ratio	Lower	Upper
75	100		
77	40.0	19.4	58.2



#77
Bromobenzene
Concen: 21.298 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:156 Resp: 8006

Ion	Ratio	Lower	Upper
156	100		
77	170.5	86.3	258.9
158	96.2	48.0	144.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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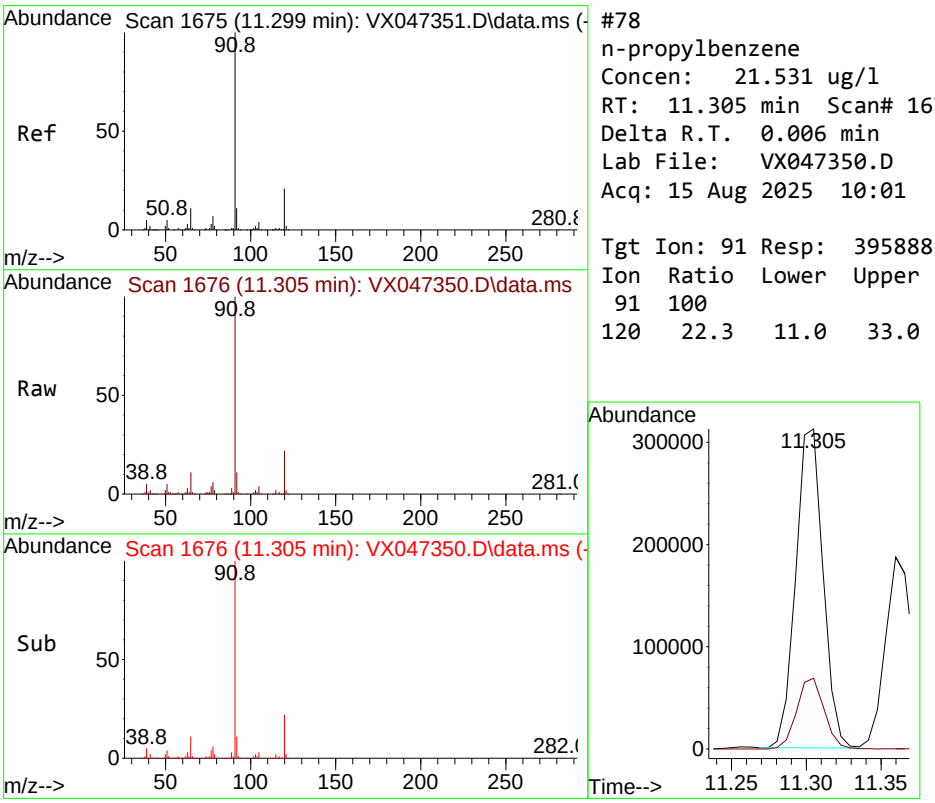
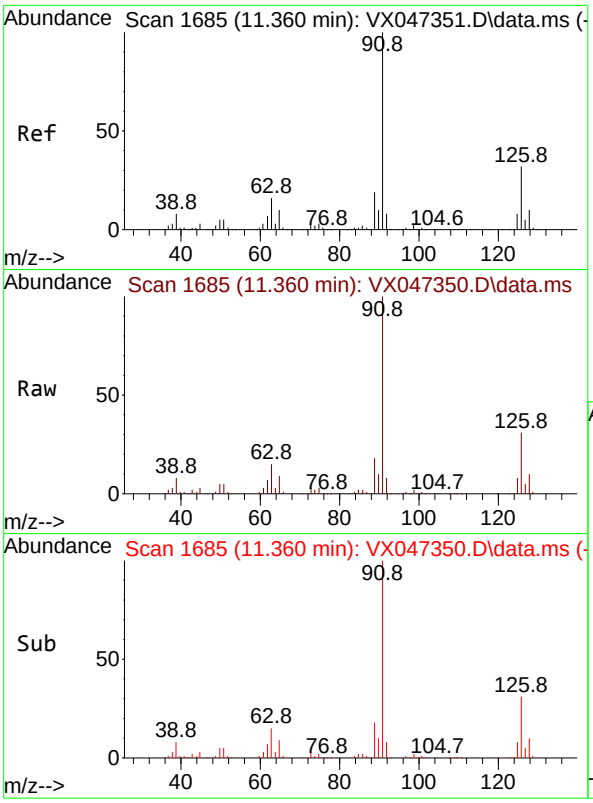


#78
n-propylbenzene
Concen: 21.531 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 91 Resp: 395888

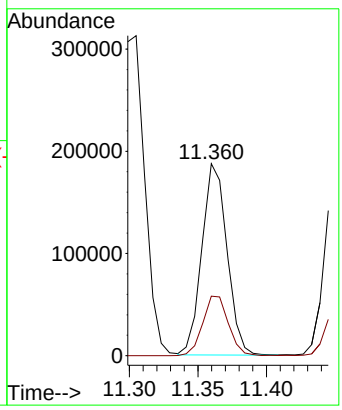
Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0



#79
2-Chlorotoluene
Concen: 21.515 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 91 Resp: 23913

Ion	Ratio	Lower	Upper
91	100		
126	31.8	16.7	50.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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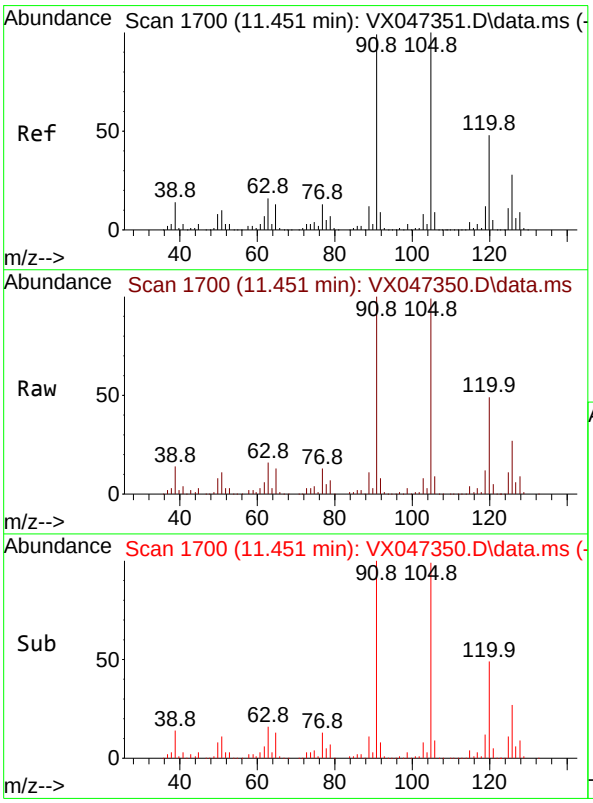
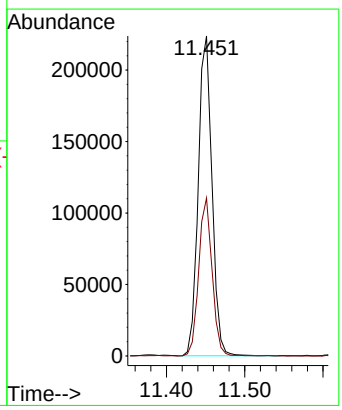
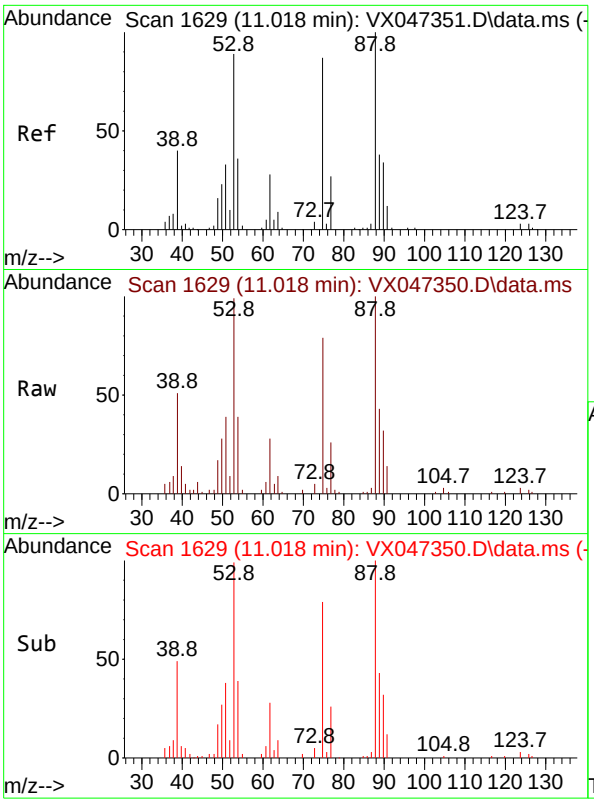


#80
1,3,5-Trimethylbenzene
Concen: 21.513 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:105 Resp: 272501

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.9	71.7

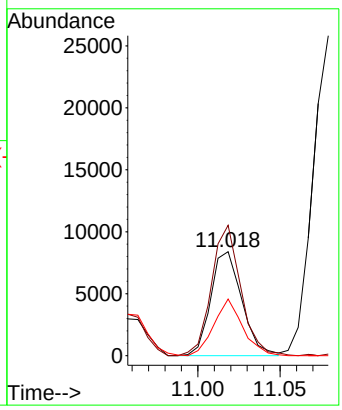




#81
trans-1,4-Dichloro-2-butene
Concen: 19.090 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 75 Resp: 1105

Ion	Ratio	Lower	Upper
75	100		
53	118.2	85.2	127.8
89	50.5	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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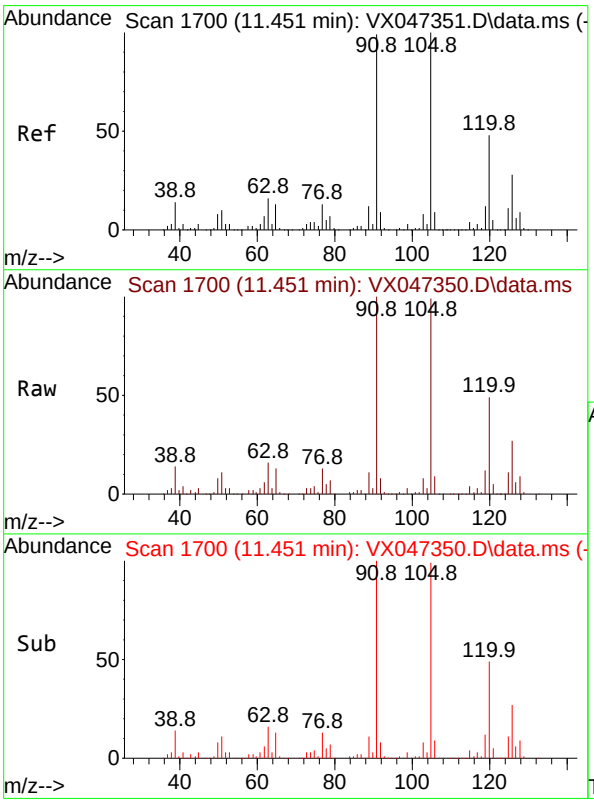
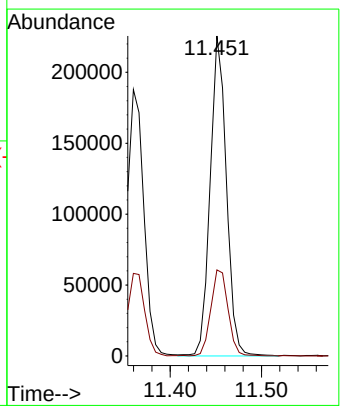
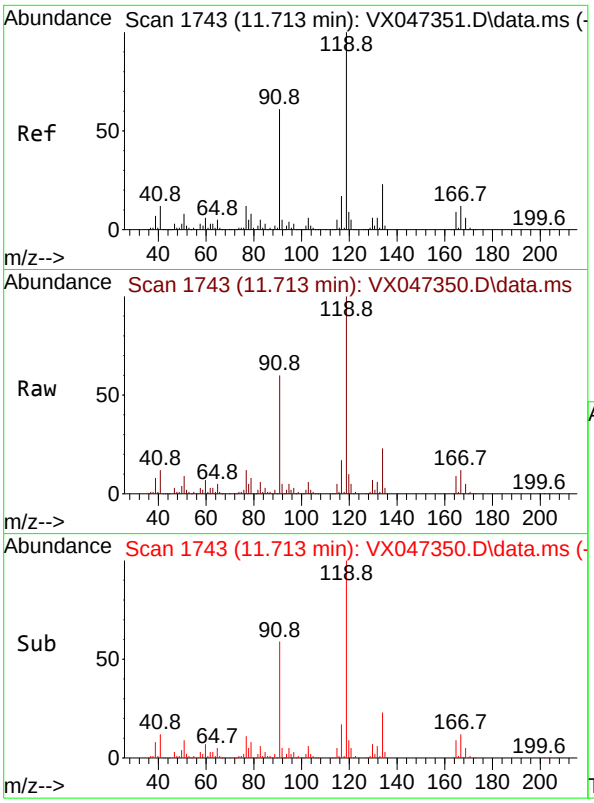


#82
4-Chlorotoluene
Concen: 21.272 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 91 Resp: 278705

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.4	43.0

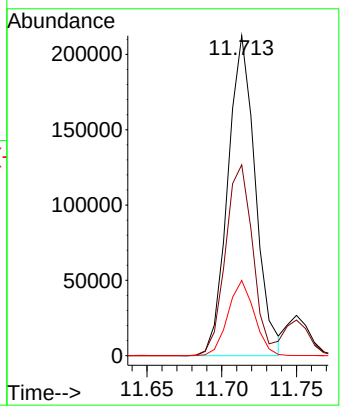




#83
tert-Butylbenzene
Concen: 21.487 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:119 Resp: 27154

Ion	Ratio	Lower	Upper
119	100		
91	59.0	29.1	87.4
134	22.6	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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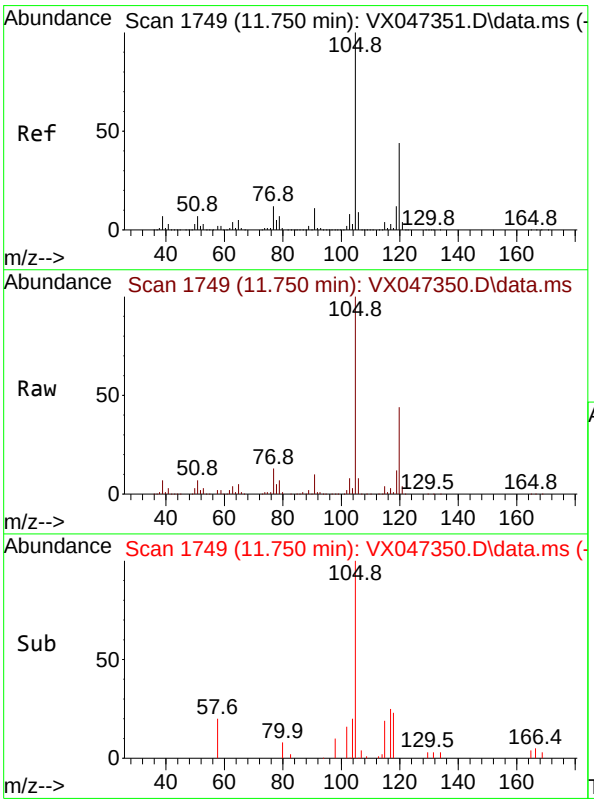
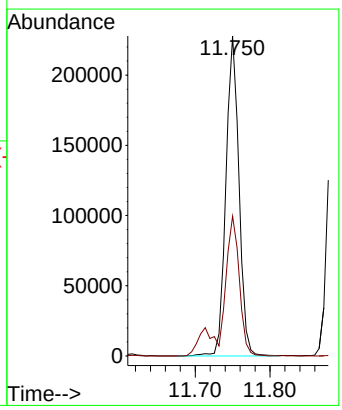
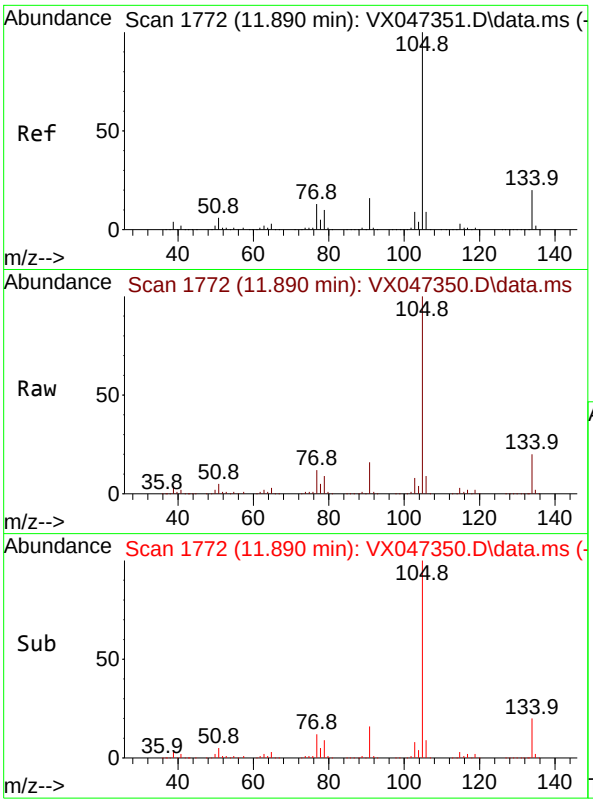


#84
1,2,4-Trimethylbenzene
Concen: 21.876 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:105 Resp: 277110

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.9	65.7

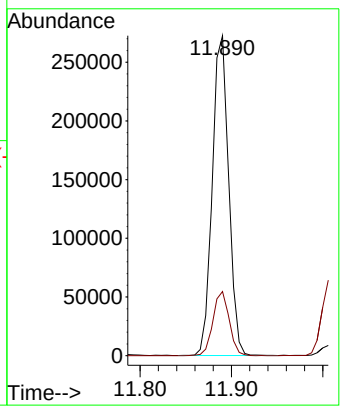




#85
sec-Butylbenzene
Concen: 21.719 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:105 Resp: 34020

Ion	Ratio	Lower	Upper
105	100		
134	20.0	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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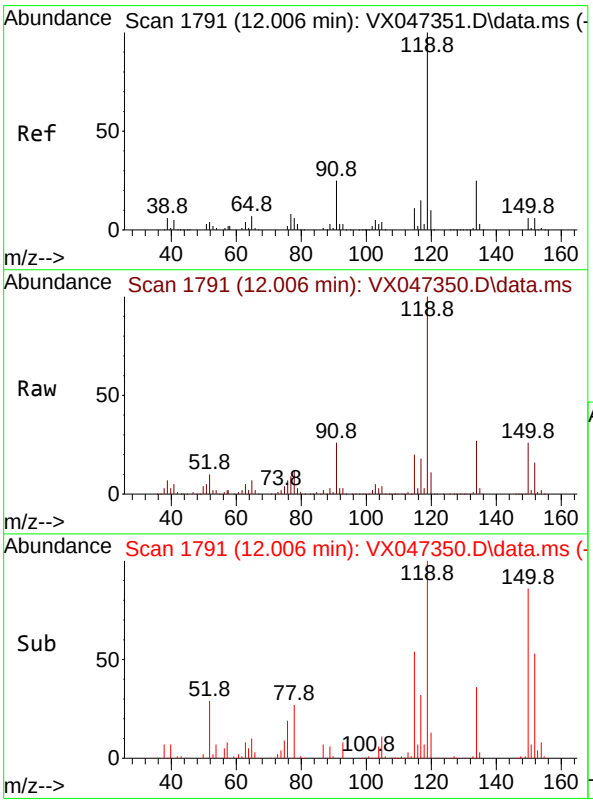
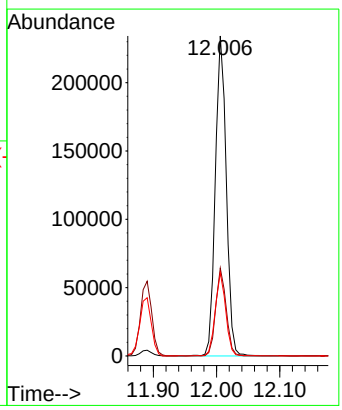
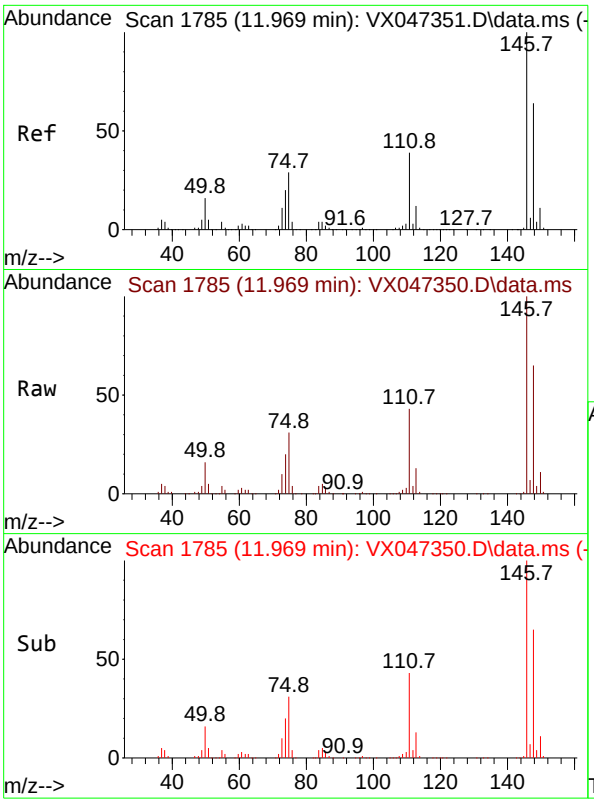


#86
p-Isopropyltoluene
Concen: 21.189 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:119 Resp: 280855

Ion	Ratio	Lower	Upper
119	100		
134	26.3	12.8	38.4
91	24.9	12.4	37.4

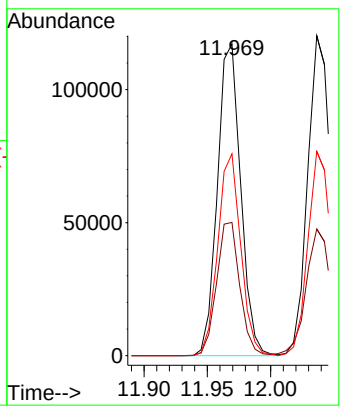




#87
1,3-Dichlorobenzene
Concen: 20.890 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:146 Resp: 15002

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.6	61.8
148	63.7	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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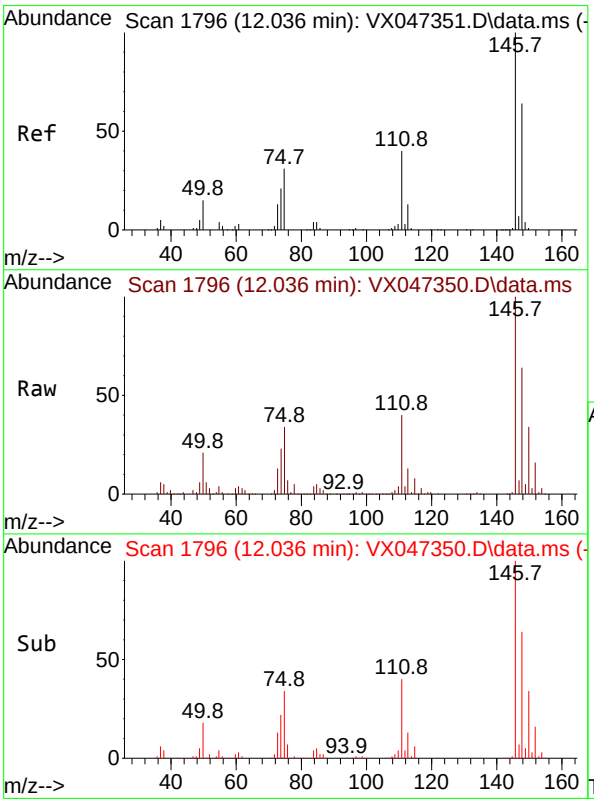
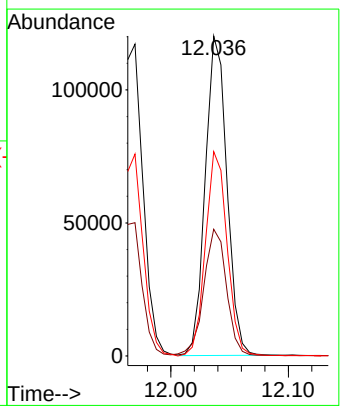
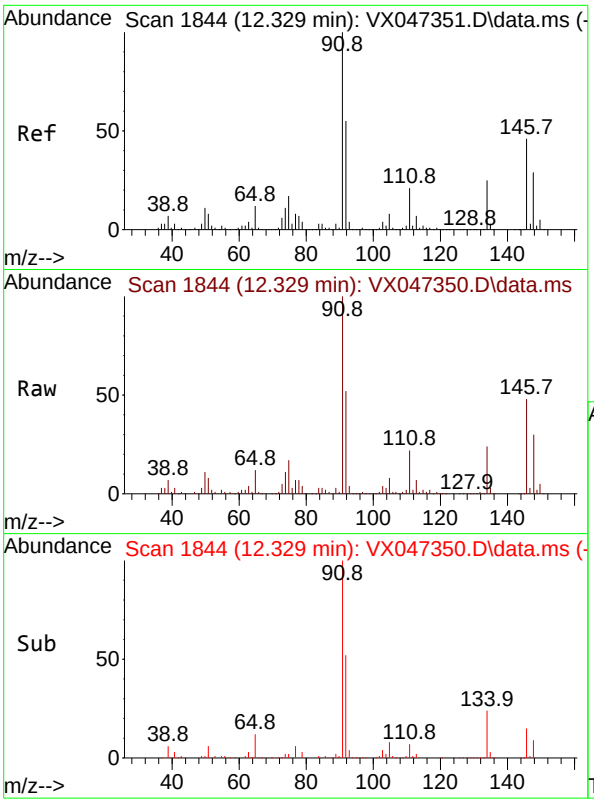


#88
1,4-Dichlorobenzene
Concen: 20.798 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:146 Resp: 153630

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.4	61.2
148	64.2	31.7	95.1

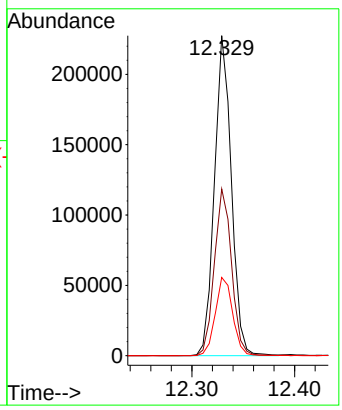




#89
n-Butylbenzene
Concen: 21.124 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 91 Resp: 26042

Ion	Ratio	Lower	Upper
91	100		
92	53.1	27.2	81.5
134	25.3	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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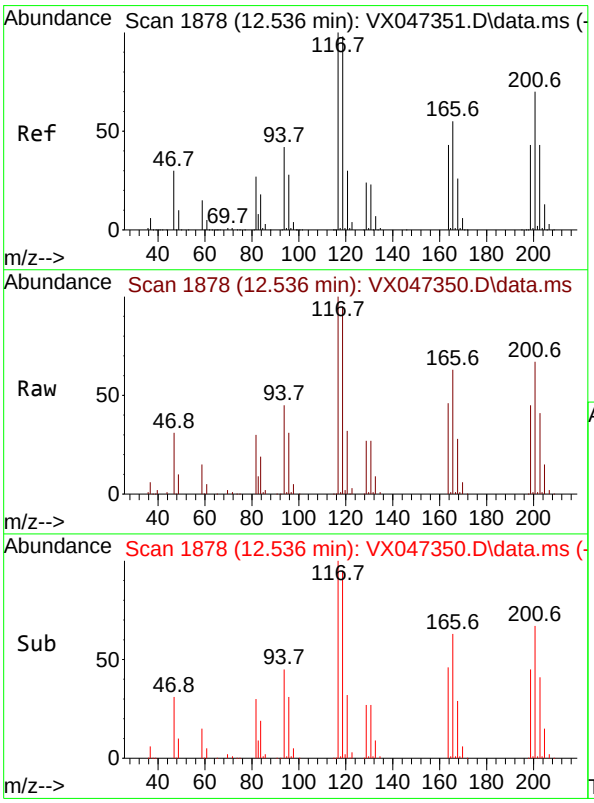
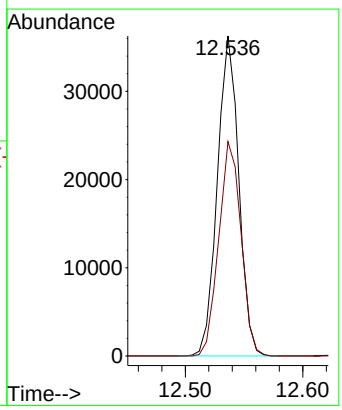
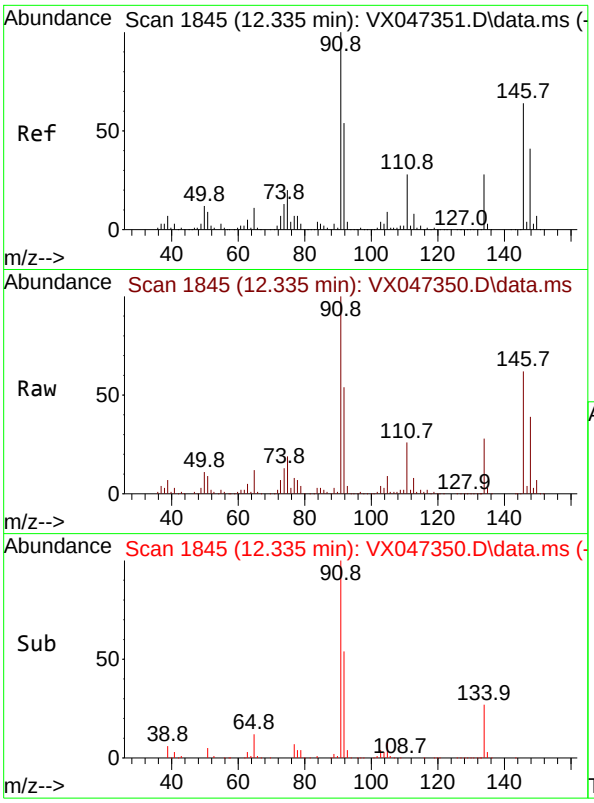


#90
Hexachloroethane
Concen: 19.754 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:117 Resp: 45934

Ion	Ratio	Lower	Upper
117	100		
201	69.8	35.1	105.3

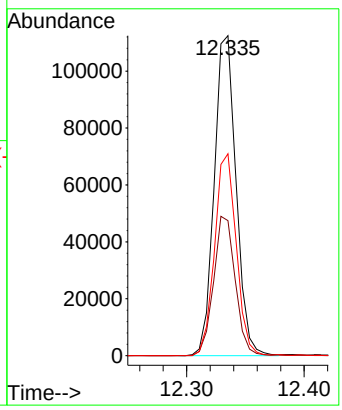




#91
1,2-Dichlorobenzene
Concen: 21.363 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:146 Resp: 14562

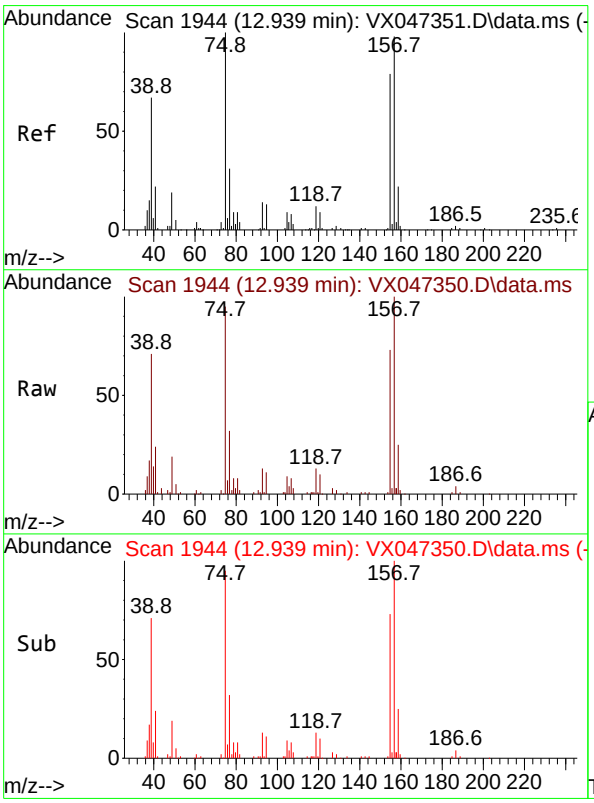
Ion	Ratio	Lower	Upper
146	100		
111	43.3	22.1	66.1
148	62.6	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

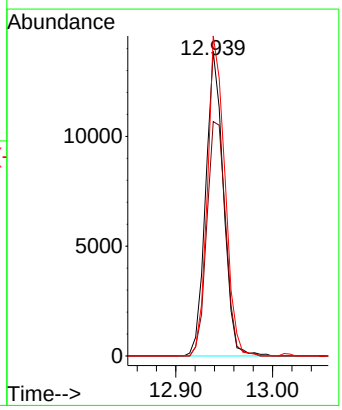
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

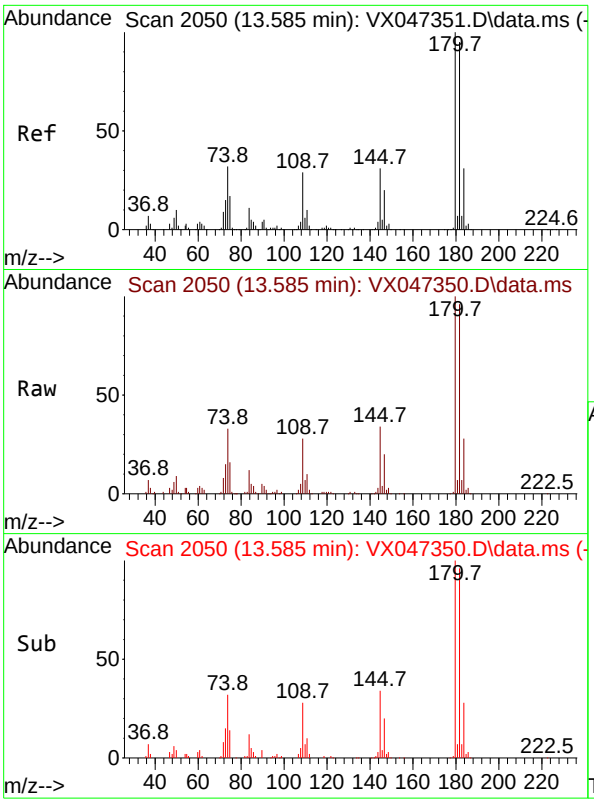


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.246 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 75 Resp: 17698

Ion	Ratio	Lower	Upper
75	100		
155	82.3	41.3	123.7
157	103.6	51.5	154.5

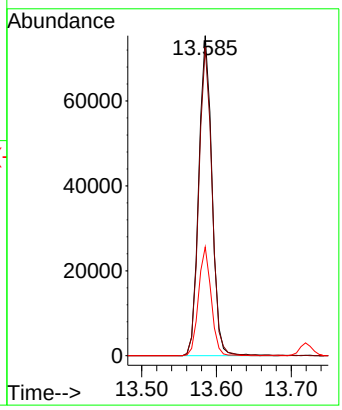




#93
1,2,4-Trichlorobenzene
Concen: 20.105 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:180 Resp: 9187

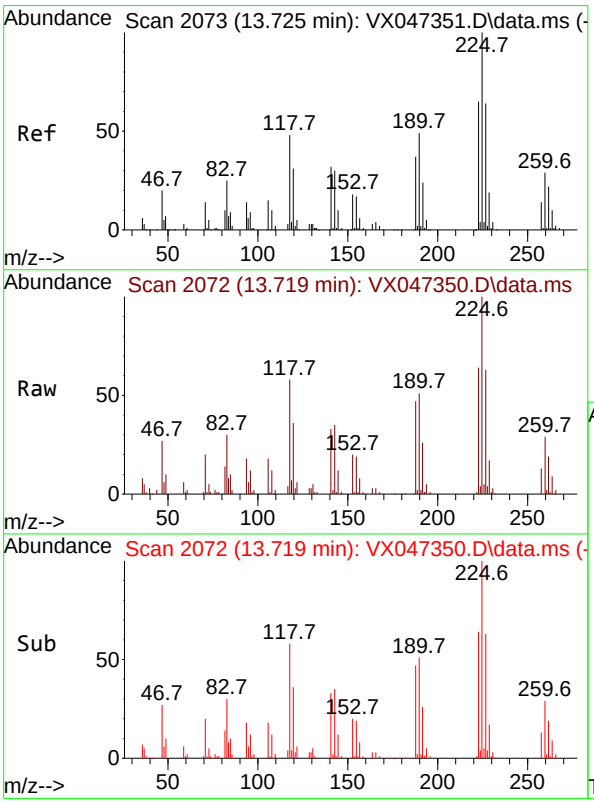
Ion	Ratio	Lower	Upper
180	100		
182	96.4	48.1	144.4
145	32.6	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

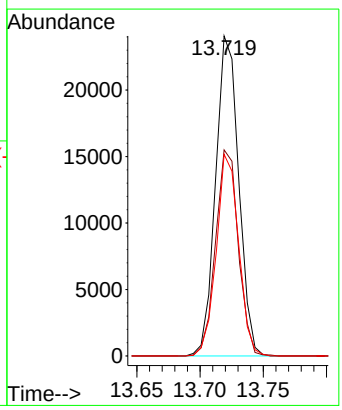
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

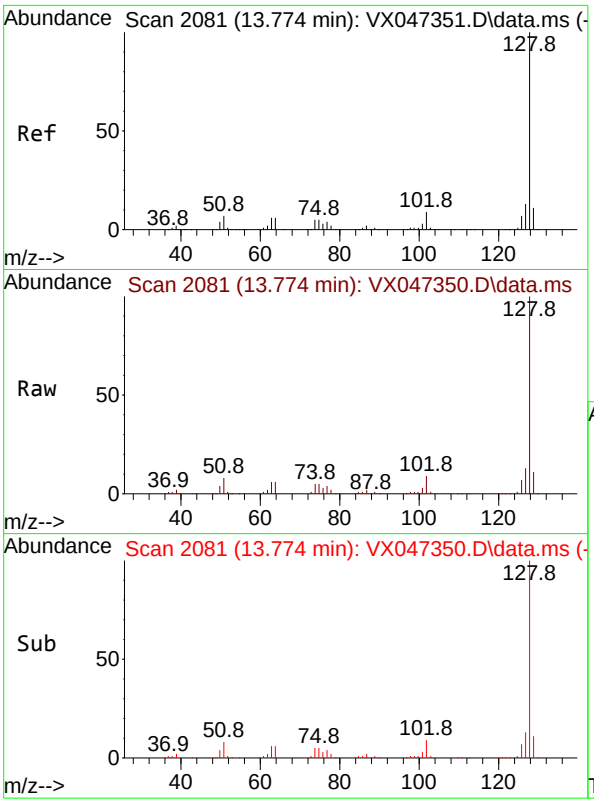


#94
Hexachlorobutadiene
Concen: 18.738 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:225 Resp: 30481

Ion	Ratio	Lower	Upper
225	100		
223	63.5	32.2	96.6
227	60.9	31.6	95.0

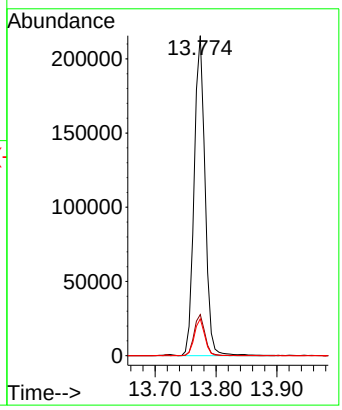




#95
Naphthalene
Concen: 20.495 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:128 Resp: 26766

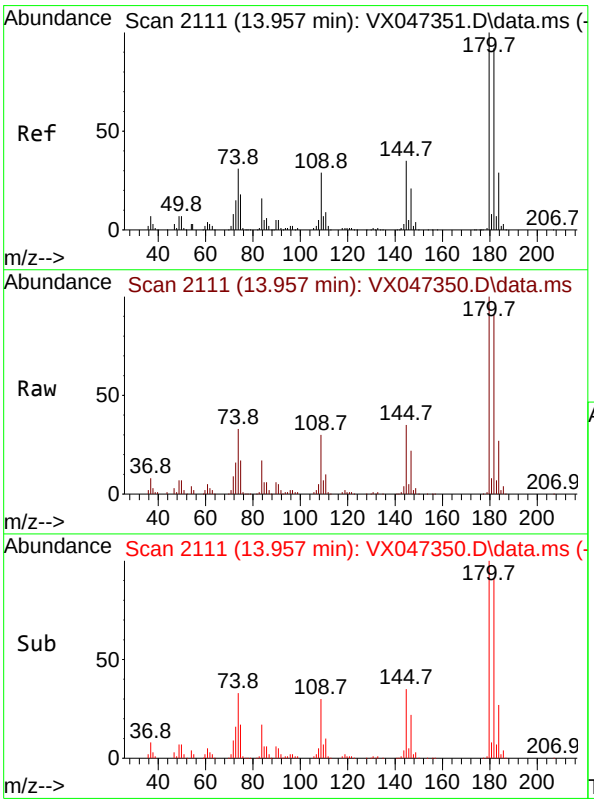
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	11.0	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

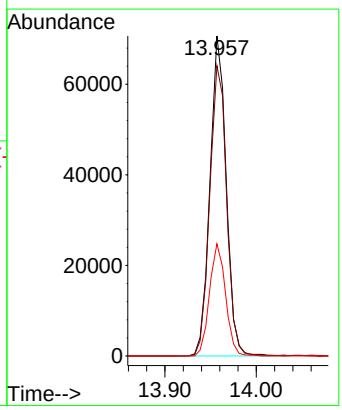
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.261 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:180 Resp: 87275

Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.0	144.2
145	34.6	17.4	52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047351.D
Acq On : 15 Aug 2025 10:22
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 02:53:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	238847	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	405572	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	363128	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	177366	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	167238	50.030	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.060%			
35) Dibromofluoromethane	5.397	113	134437	51.074	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.140%			
50) Toluene-d8	8.653	98	475041	50.492	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.980%			
62) 4-Bromofluorobenzene	11.079	95	173764	50.050	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	174629	57.354	ug/l	100
3) Chloromethane	1.313	50	148962	54.385	ug/l	100
4) Vinyl Chloride	1.392	62	191163	55.604	ug/l	100
5) Bromomethane	1.630	94	80221	57.770	ug/l	100
6) Chloroethane	1.709	64	110475	52.521	ug/l	100
7) Trichlorofluoromethane	1.904	101	283655	55.781	ug/l	100
8) Diethyl Ether	2.148	74	99184	55.393	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	166491	56.441	ug/l	100
10) Methyl Iodide	2.471	142	277741	54.943	ug/l	100
11) Tert butyl alcohol	2.959	59	81382	279.856	ug/l	100
12) 1,1-Dichloroethene	2.337	96	166359	55.319	ug/l	100
13) Acrolein	2.251	56	157735	256.954	ug/l	100
14) Allyl chloride	2.678	41	289338	55.394	ug/l	100
15) Acrylonitrile	3.081	53	405784	288.775	ug/l	100
16) Acetone	2.392	43	334538	266.252	ug/l	100
17) Carbon Disulfide	2.532	76	476020	52.455	ug/l	100
18) Methyl Acetate	2.715	43	183721	56.425	ug/l	100
19) Methyl tert-butyl Ether	3.123	73	519477	56.782	ug/l	100
20) Methylene Chloride	2.806	84	180921	54.377	ug/l	100
21) trans-1,2-Dichloroethene	3.105	96	173226	54.272	ug/l	100
22) Diisopropyl ether	3.776	45	587571	56.909	ug/l	100
23) Vinyl Acetate	3.733	43	2436350	287.897	ug/l	100
24) 1,1-Dichloroethane	3.623	63	323982	55.516	ug/l	100
25) 2-Butanone	4.568	43	464136	282.051	ug/l	100
26) 2,2-Dichloropropane	4.495	77	242859	55.137	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	202109	54.366	ug/l	100
28) Bromochloromethane	4.910	49	129079	53.153	ug/l	100
29) Tetrahydrofuran	5.025	42	293474	275.925	ug/l	100
30) Chloroform	5.105	83	326781	54.867	ug/l	100
31) Cyclohexane	5.483	56	288914	53.705	ug/l	100
32) 1,1,1-Trichloroethane	5.397	97	285500	55.692	ug/l	100
36) 1,1-Dichloropropene	5.708	75	228086	54.893	ug/l	100
37) Ethyl Acetate	4.721	43	239310	55.477	ug/l	100
38) Carbon Tetrachloride	5.690	117	246368	54.258	ug/l	100
39) Methylcyclohexane	7.391	83	281960	54.402	ug/l	100
40) Benzene	6.050	78	689965	55.477	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047351.D
Acq On : 15 Aug 2025 10:22
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 02:53:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.940	41	104680	57.547 ug/l	100
42) 1,2-Dichloroethane	6.098	62	243489	55.271 ug/l	100
43) Isopropyl Acetate	6.348	43	352090	56.817 ug/l	100
44) Trichloroethene	7.135	130	175409	55.081 ug/l	100
45) 1,2-Dichloropropane	7.433	63	170556	54.740 ug/l	100
46) Dibromomethane	7.586	93	122428	54.124 ug/l	100
47) Bromodichloromethane	7.824	83	257393	54.888 ug/l	100
48) Methyl methacrylate	7.696	41	180568	56.136 ug/l	100
49) 1,4-Dioxane	7.677	88	36298	1188.274 ug/l	100
51) 4-Methyl-2-Pentanone	8.573	43	1031709	289.311 ug/l	100
52) Toluene	8.720	92	428577	55.767 ug/l	100
53) t-1,3-Dichloropropene	8.976	75	237021	57.913 ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	260352	56.202 ug/l	100
55) 1,1,2-Trichloroethane	9.153	97	160439	54.984 ug/l	100
56) Ethyl methacrylate	9.116	69	250221	58.164 ug/l	100
57) 1,3-Dichloropropane	9.311	76	271755	54.656 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	555513	269.738 ug/l	100
59) 2-Hexanone	9.433	43	703268	285.099 ug/l	100
60) Dibromochloromethane	9.518	129	188384	54.326 ug/l	100
61) 1,2-Dibromoethane	9.610	107	165776	55.095 ug/l	100
64) Tetrachloroethene	9.275	164	144361	54.962 ug/l	100
65) Chlorobenzene	10.079	112	467009	54.119 ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	160305	54.954 ug/l	100
67) Ethyl Benzene	10.195	91	826783	55.667 ug/l	100
68) m/p-Xylenes	10.299	106	622895	112.475 ug/l	100
69) o-Xylene	10.640	106	295290	55.407 ug/l	100
70) Styrene	10.652	104	512239	56.883 ug/l	100
71) Bromoform	10.799	173	121692	55.530 ug/l	100
73) Isopropylbenzene	10.963	105	780181	56.210 ug/l	100
74) N-amyl acetate	10.841	43	306720	58.194 ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	225063	55.228 ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	179785m	55.266 ug/l	
77) Bromobenzene	11.195	156	186832	55.124 ug/l	100
78) n-propylbenzene	11.299	91	918573	55.413 ug/l	100
79) 2-Chlorotoluene	11.360	91	549070	54.793 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	636323	55.720 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	35295	47.608 ug/l	100
82) 4-Chlorotoluene	11.451	91	643830	54.505 ug/l	100
83) tert-Butylbenzene	11.713	119	641951	56.344 ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	646548	56.614 ug/l	100
85) sec-Butylbenzene	11.890	105	783341	55.470 ug/l	100
86) p-Isopropyltoluene	12.006	119	660872	55.303 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	351718	54.320 ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	352196	52.886 ug/l	100
89) n-Butylbenzene	12.329	91	610840	54.957 ug/l	100
90) Hexachloroethane	12.536	117	115780	55.228 ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	330287	53.742 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	43861	55.654 ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	218820	53.111 ug/l	100
94) Hexachlorobutadiene	13.725	225	71744	48.921 ug/l	100
95) Naphthalene	13.774	128	670303	56.930 ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	208179	53.605 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047351.D
Acq On : 15 Aug 2025 10:22
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 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:53:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 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\VX081525\
Data File : VX047351.D
Acq On : 15 Aug 2025 10:22
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 02:53:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
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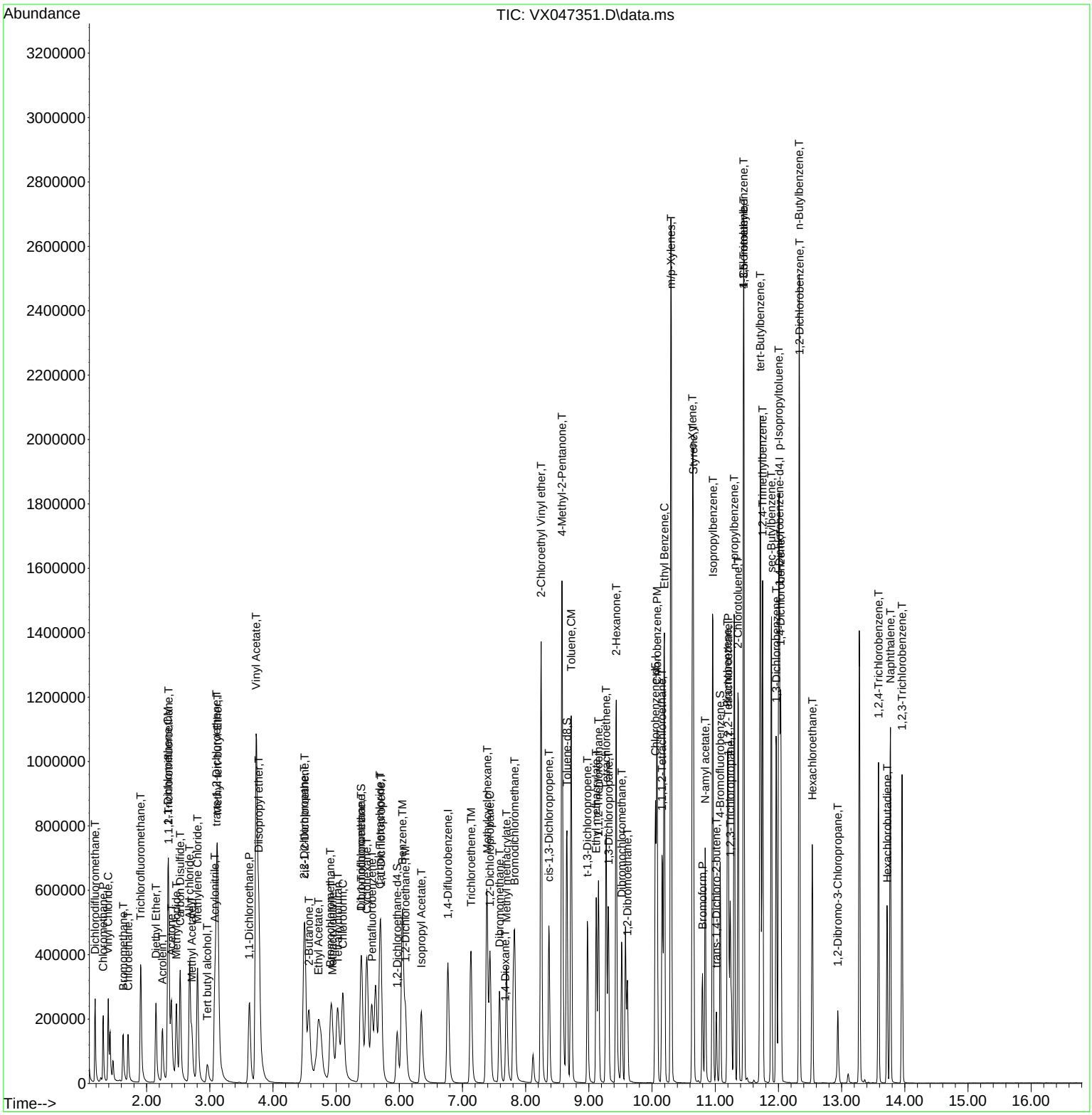
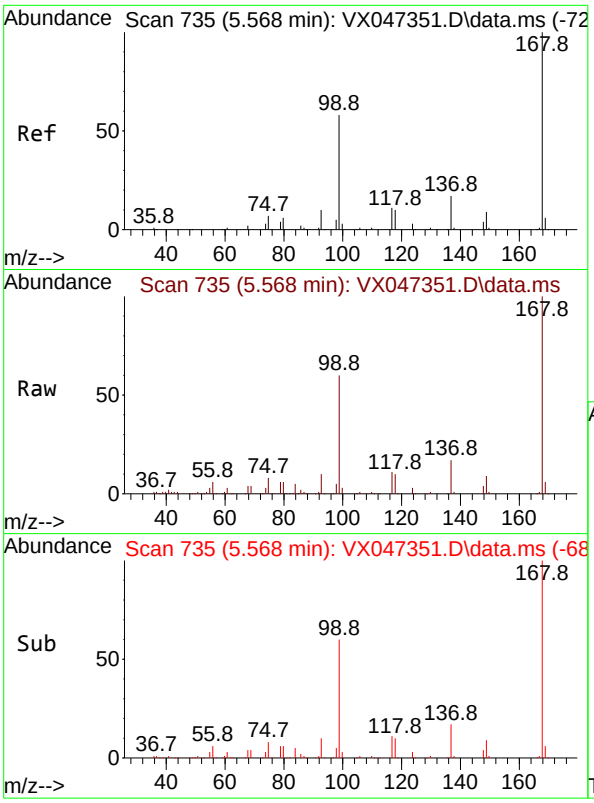
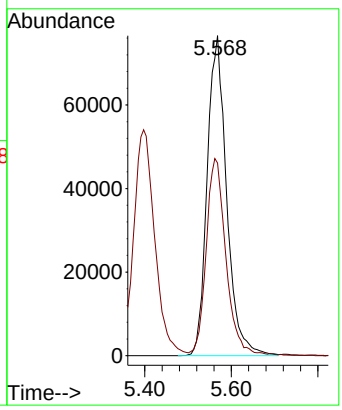




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:168 Resp: 23884

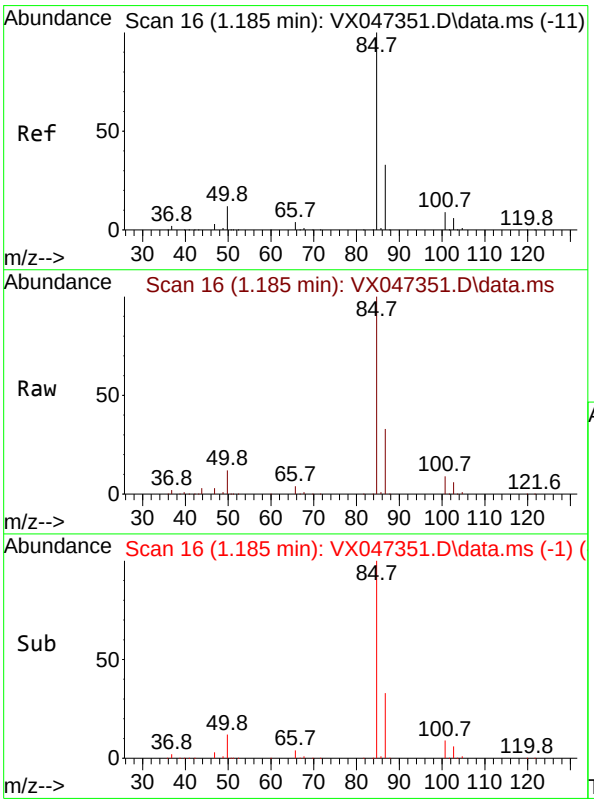
Ion	Ratio	Lower	Upper
168	100		
99	59.9	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

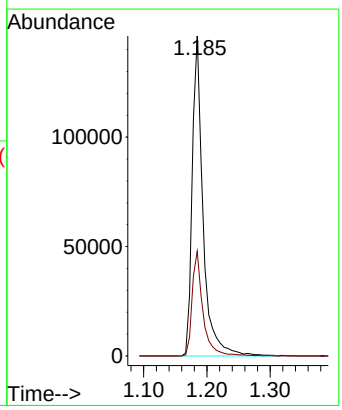
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

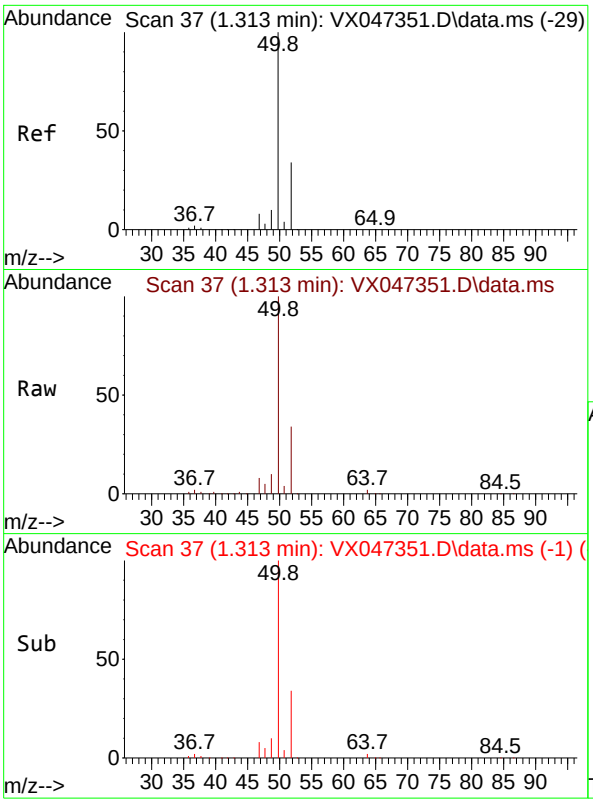


#2
Dichlorodifluoromethane
Concen: 57.354 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 85 Resp: 174629

Ion	Ratio	Lower	Upper
85	100		
87	32.7	16.4	49.1





#3
Chloromethane
Concen: 54.385 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

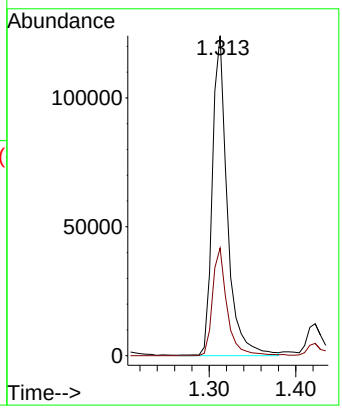
Tgt Ion: 50 Resp: 14896

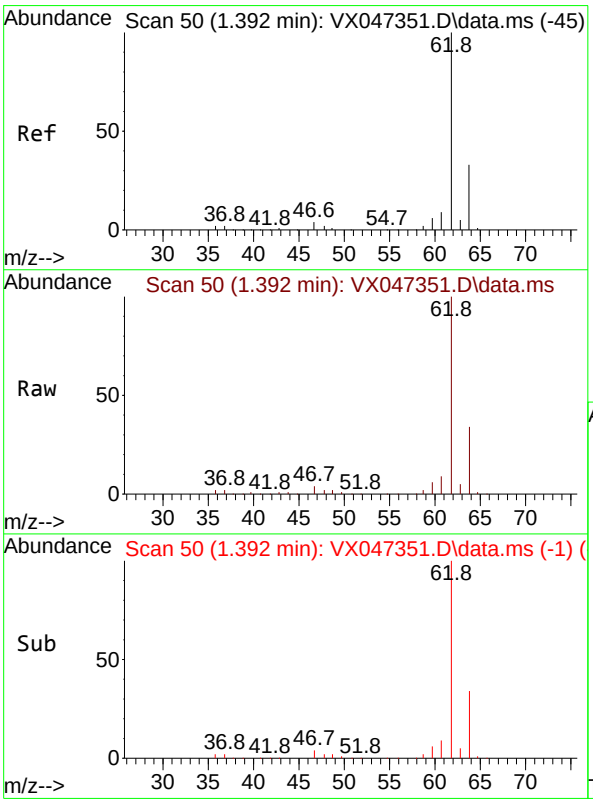
Ion	Ratio	Lower	Upper
50	100		
52	33.7	27.0	40.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

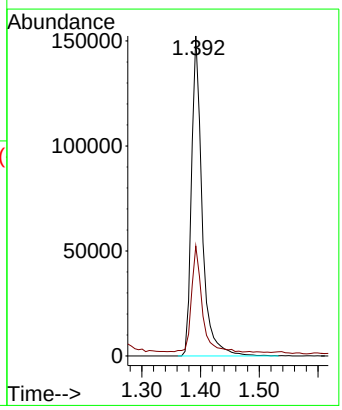


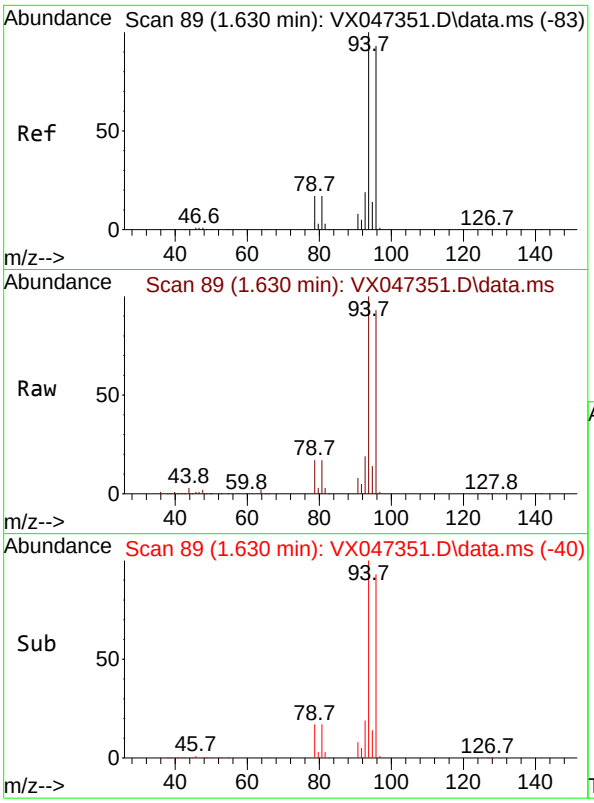


#4
Vinyl Chloride
Concen: 55.604 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 62 Resp: 191163

Ion	Ratio	Lower	Upper
62	100		
64	33.1	26.5	39.7

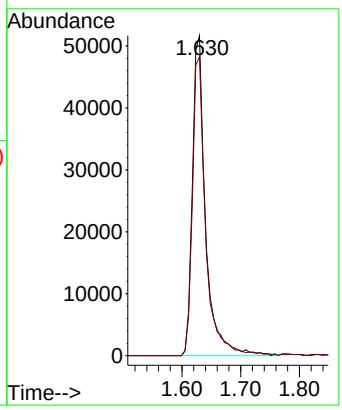




#5
Bromomethane
Concen: 57.770 ug/l
RT: 1.630 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 94 Resp: 8022

Ion	Ratio	Lower	Upper
94	100		
96	93.4	74.7	112.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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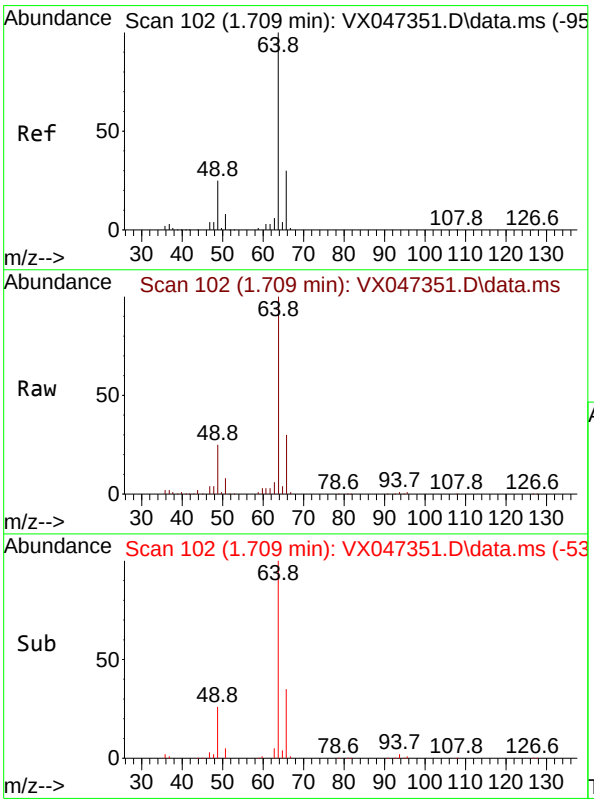
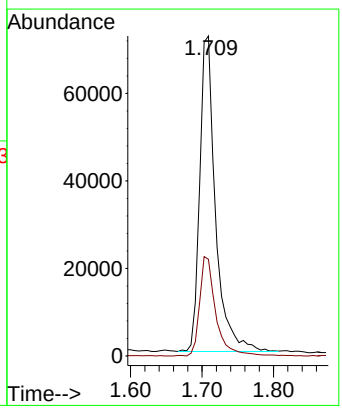
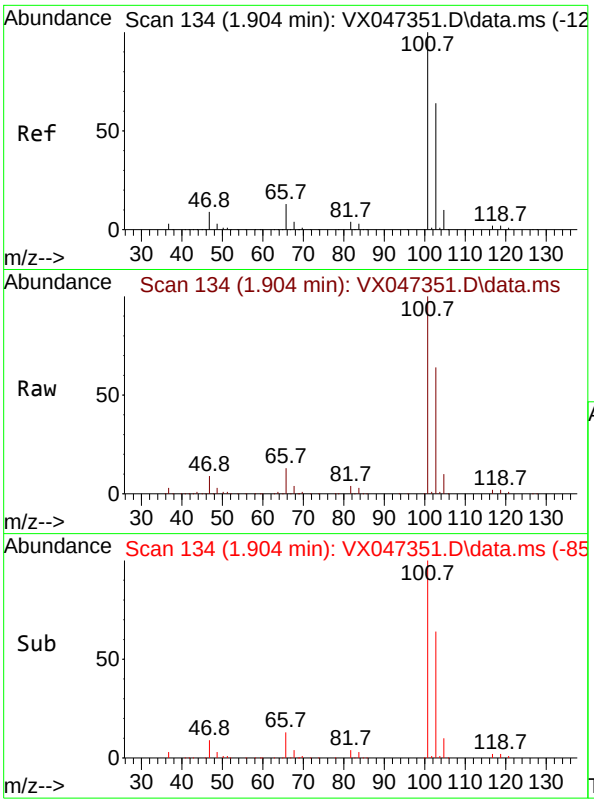


#6
Chloroethane
Concen: 52.521 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 64 Resp: 110475

Ion	Ratio	Lower	Upper
64	100		
66	30.5	24.4	36.6





#7
Trichlorofluoromethane
Concen: 55.781 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:101 Resp: 28365

Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.9	76.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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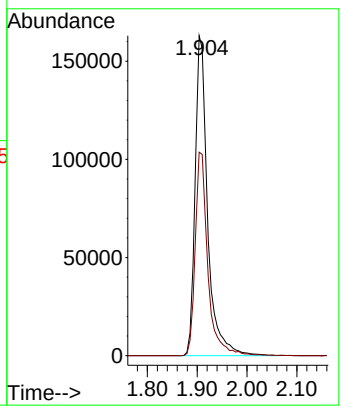
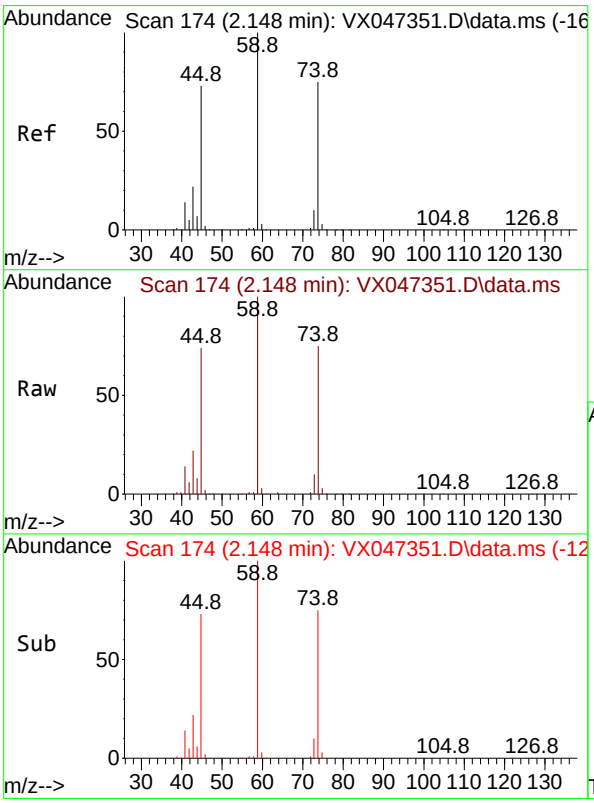
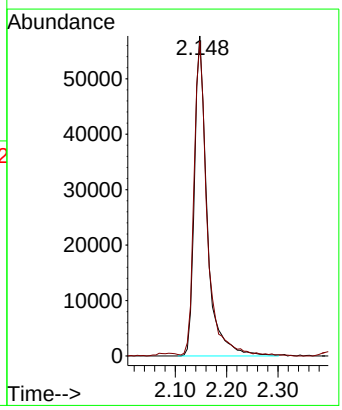


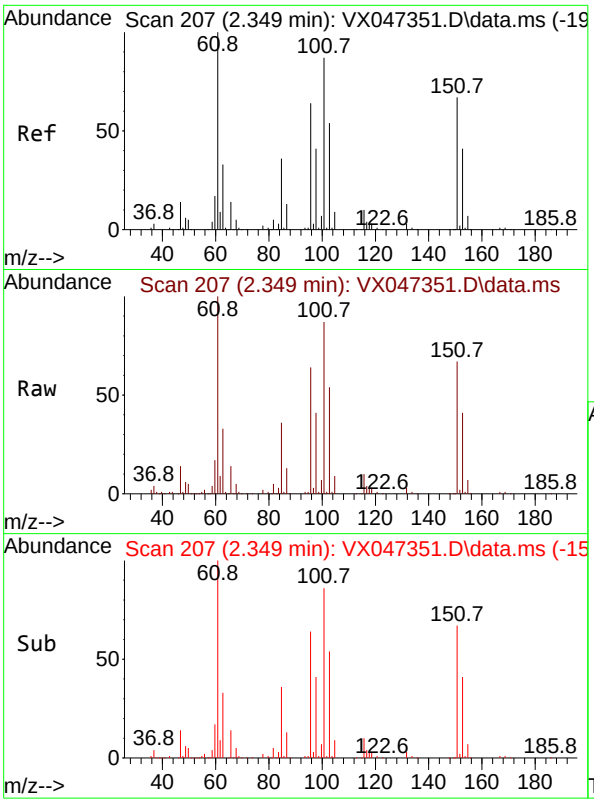


#8
Diethyl Ether
Concen: 55.393 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 74 Resp: 99184

Ion	Ratio	Lower	Upper
74	100		
45	102.7	51.3	154.0

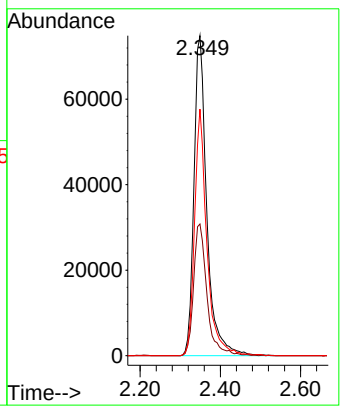




#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.441 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:101 Resp: 16649

Ion	Ratio	Lower	Upper
101	100		
85	42.9	34.3	51.5
151	74.0	59.2	88.8



Instrument :
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ClientSampleId :
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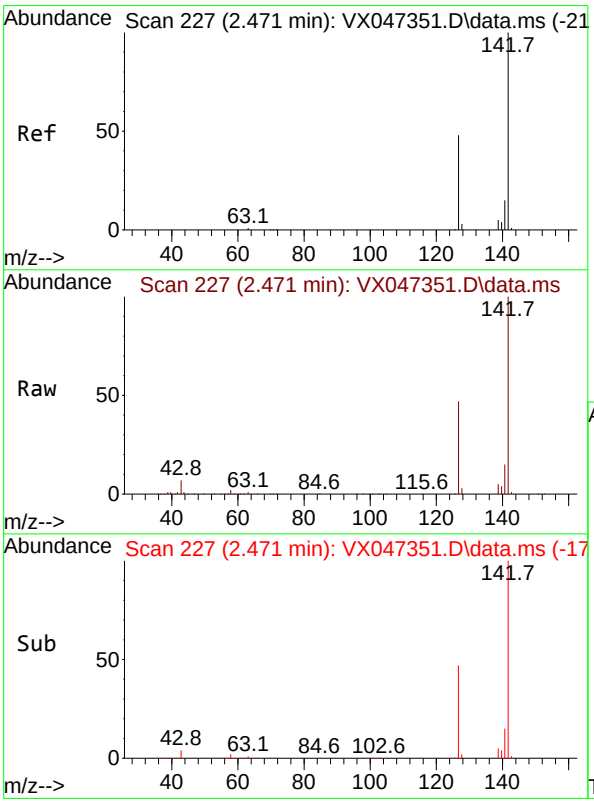
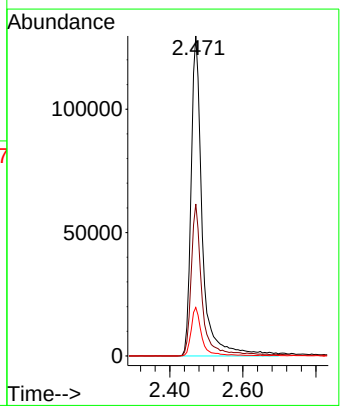
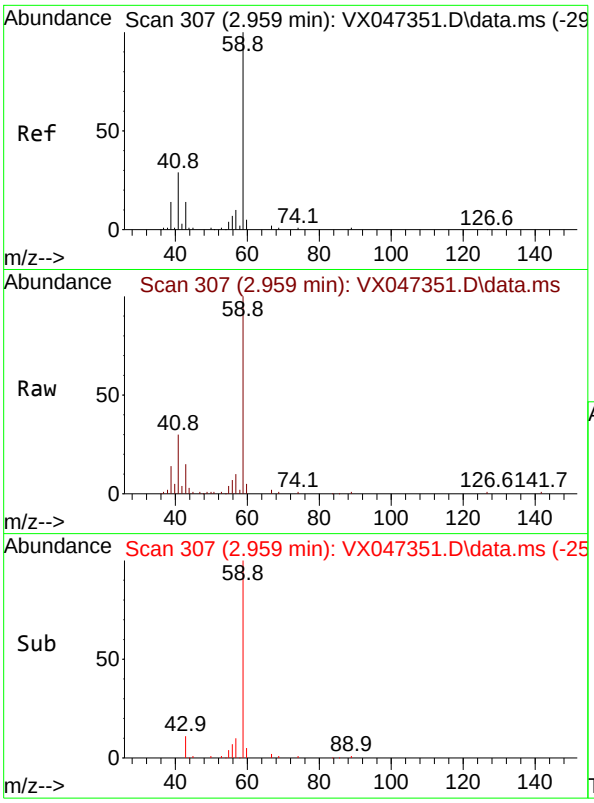


#10
Methyl Iodide
Concen: 54.943 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:142 Resp: 277741

Ion	Ratio	Lower	Upper
142	100		
127	45.1	36.1	54.1
141	13.9	11.1	16.7

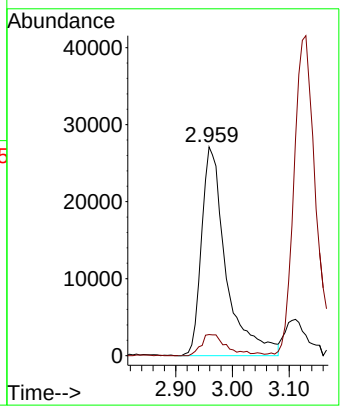




#11
Tert butyl alcohol
Concen: 279.856 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 59 Resp: 8138

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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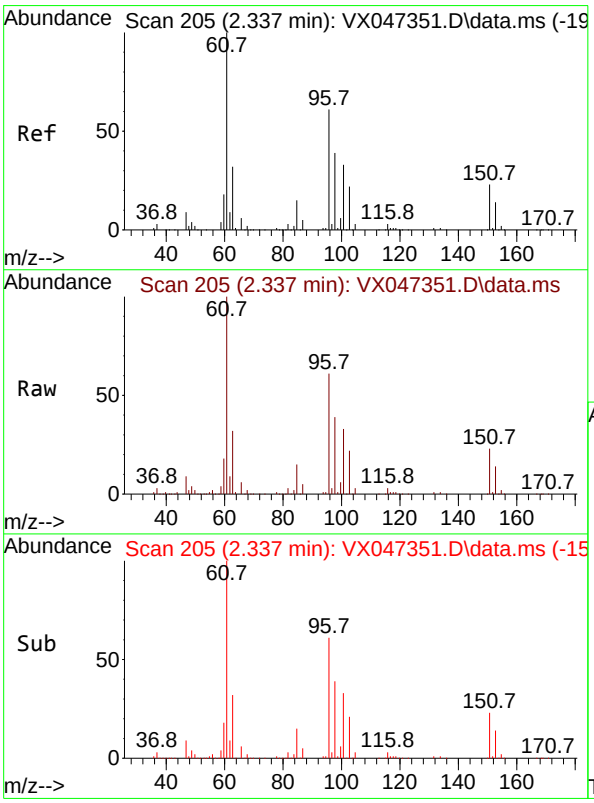
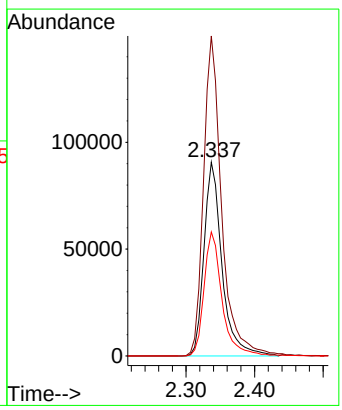
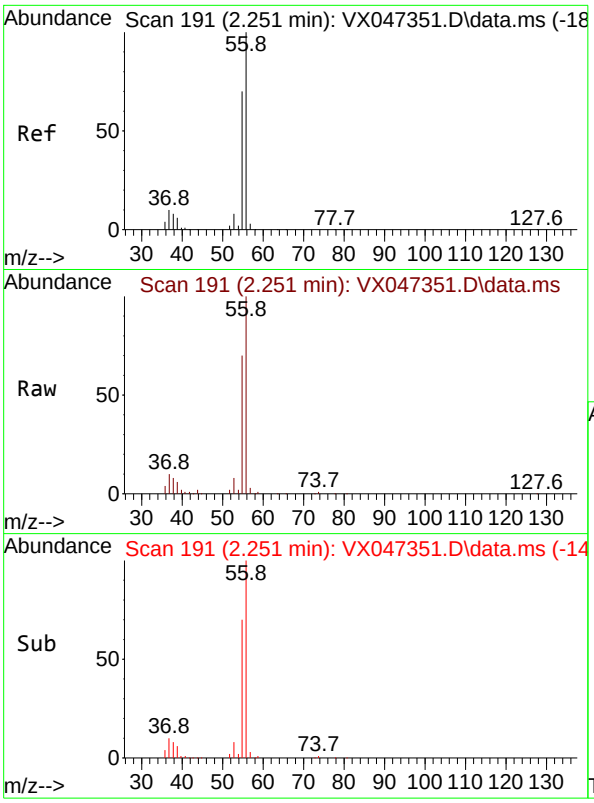


#12
1,1-Dichloroethene
Concen: 55.319 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 96 Resp: 166359

Ion	Ratio	Lower	Upper
96	100		
61	165.2	132.2	198.2
98	64.0	51.2	76.8

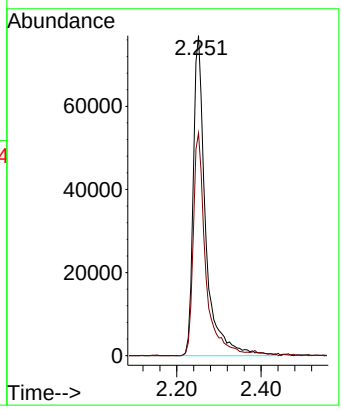




#13
Acrolein
Concen: 256.954 ug/l
RT: 2.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 56 Resp: 15773

Ion	Ratio	Lower	Upper
56	100		
55	69.4	55.5	83.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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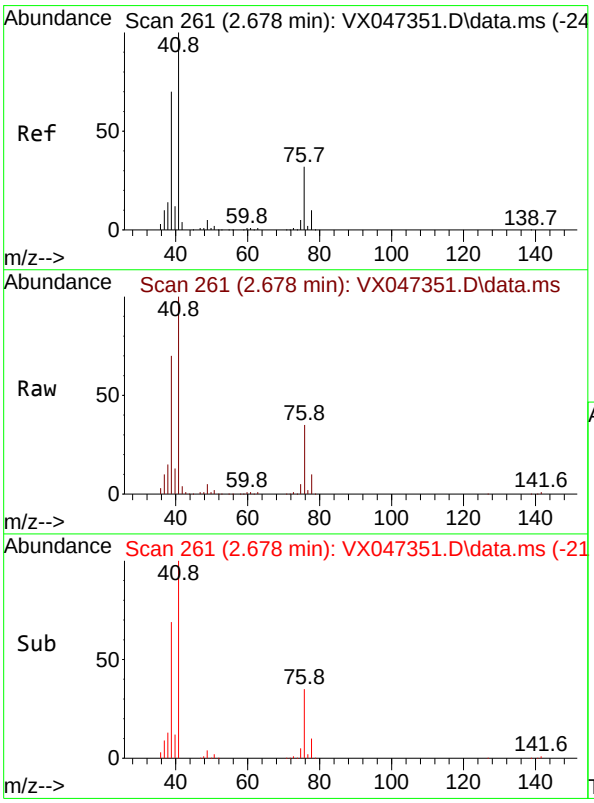
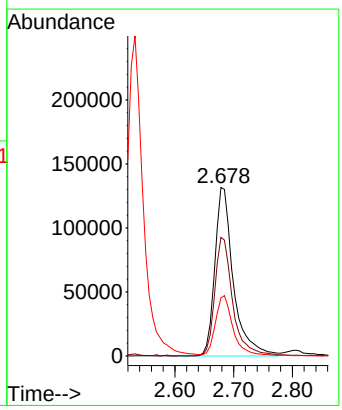
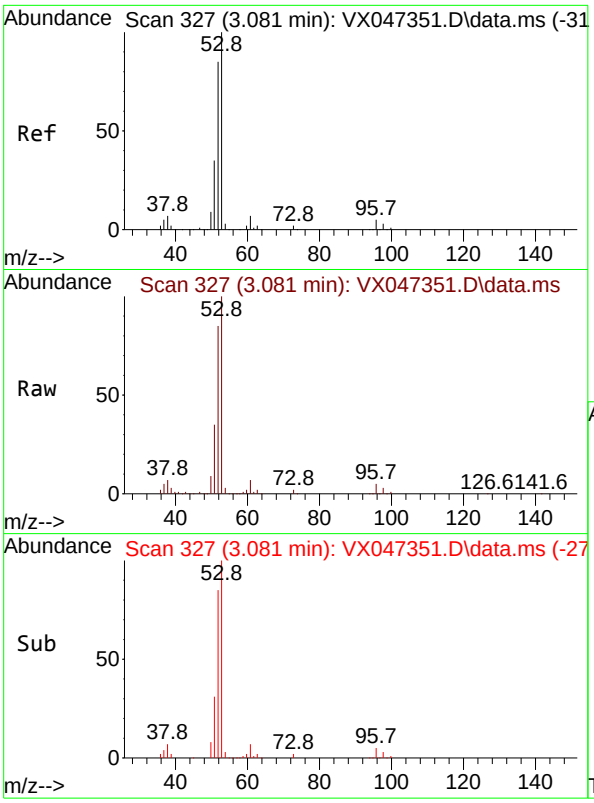


#14
Allyl chloride
Concen: 55.394 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 41 Resp: 289338

Ion	Ratio	Lower	Upper
41	100		
39	68.2	54.6	81.8
76	34.5	27.6	41.4

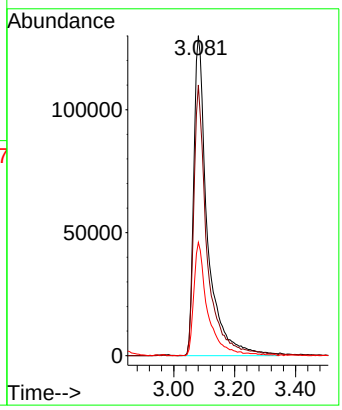




#15
Acrylonitrile
Concen: 288.775 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 53 Resp: 40578

Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.8	98.6
51	35.2	28.2	42.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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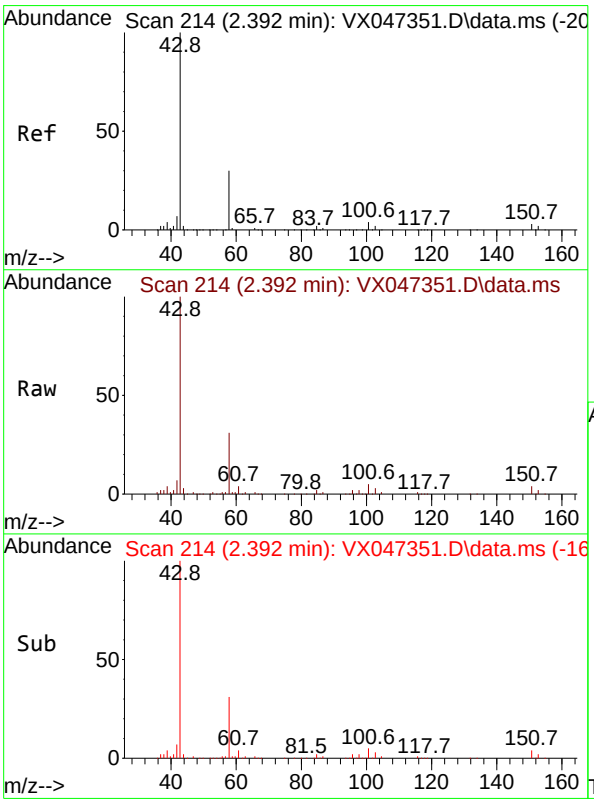
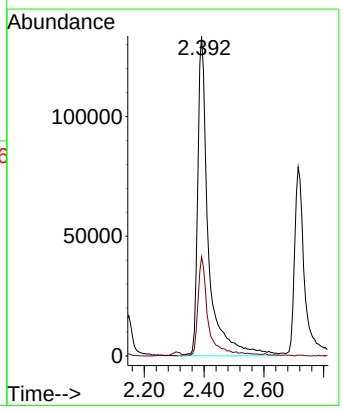
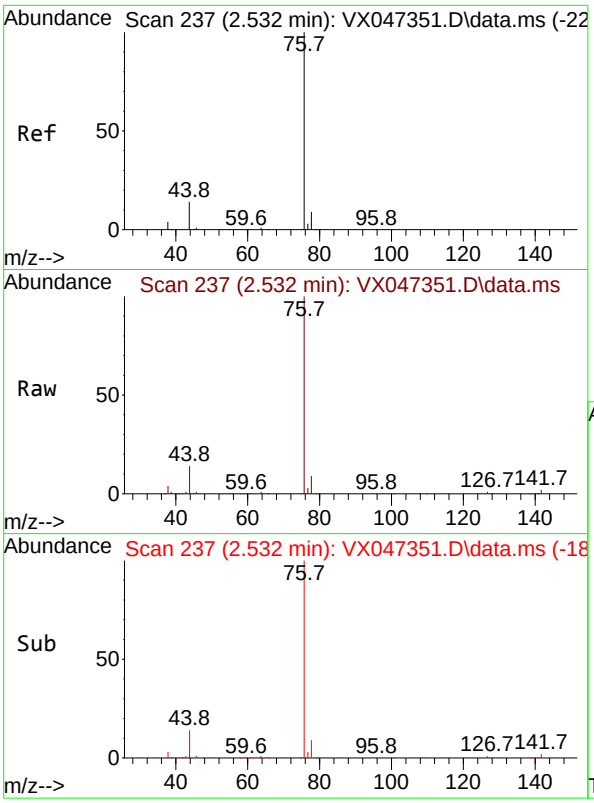


#16
Acetone
Concen: 266.252 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 43 Resp: 334538

Ion	Ratio	Lower	Upper
43	100		
58	31.0	24.8	37.2





#17
Carbon Disulfide
Concen: 52.455 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 76 Resp: 47602

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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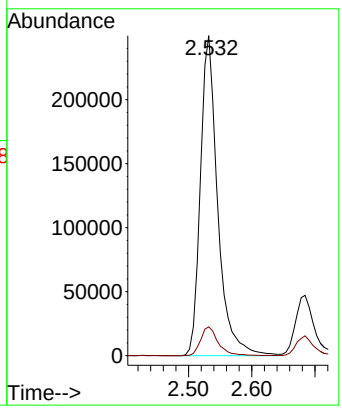
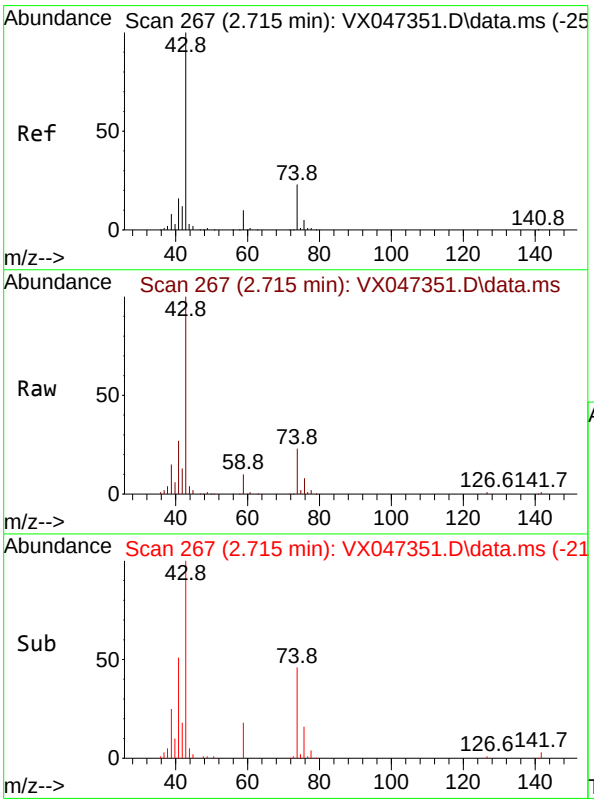
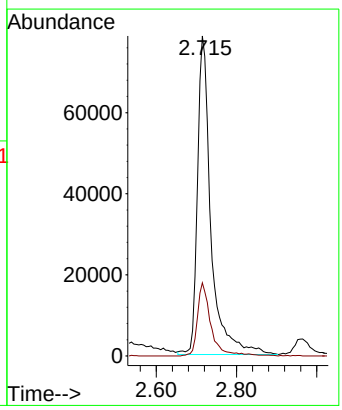


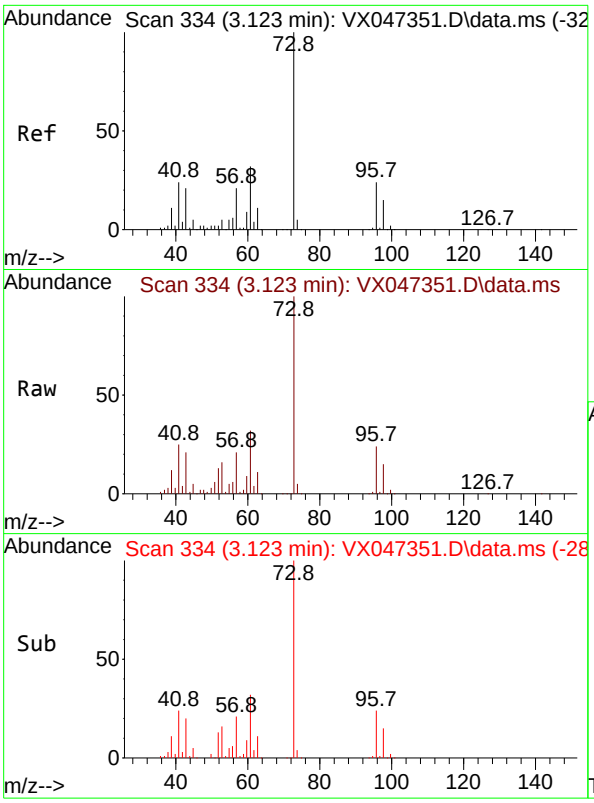


#18
Methyl Acetate
Concen: 56.425 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 43 Resp: 183721

Ion	Ratio	Lower	Upper
43	100		
74	23.0	18.4	27.6

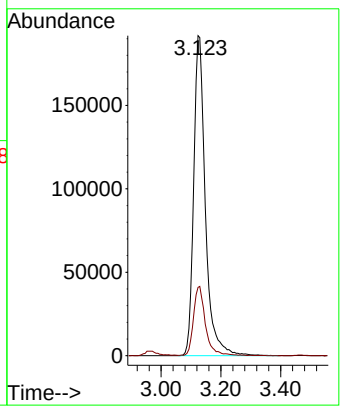




#19
Methyl tert-butyl Ether
Concen: 56.782 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 73 Resp: 51947

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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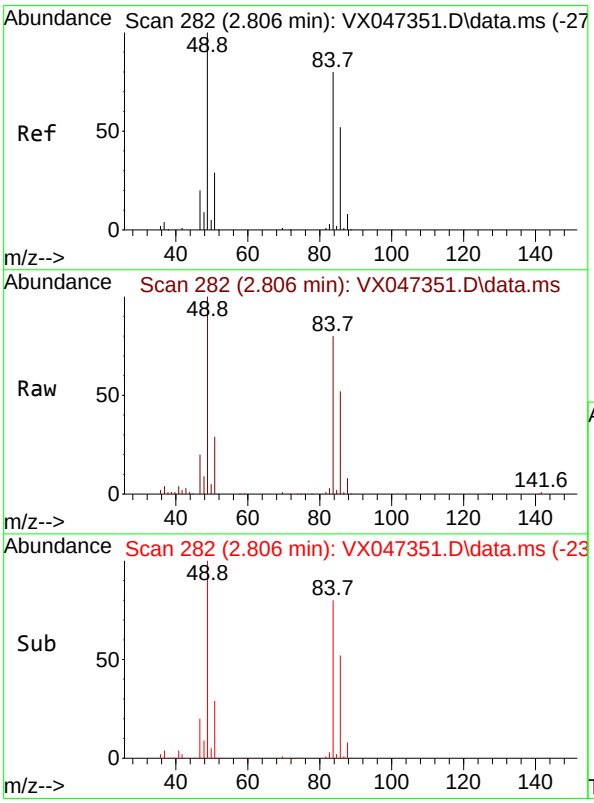
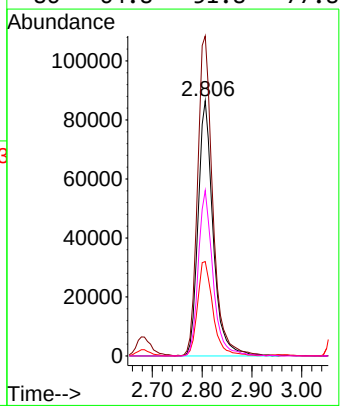
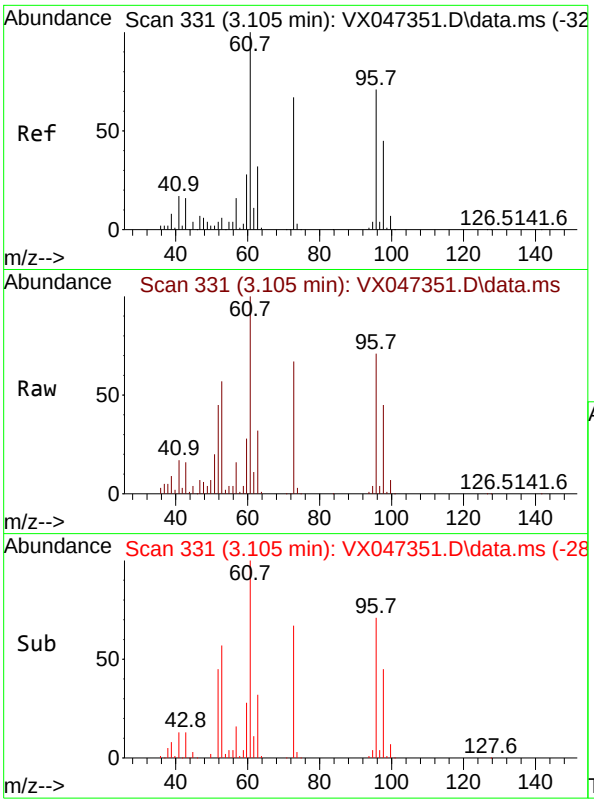


#20
Methylene Chloride
Concen: 54.377 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 84 Resp: 180921

Ion	Ratio	Lower	Upper
84	100		
49	125.1	100.1	150.1
51	36.9	29.5	44.3
86	64.8	51.8	77.8

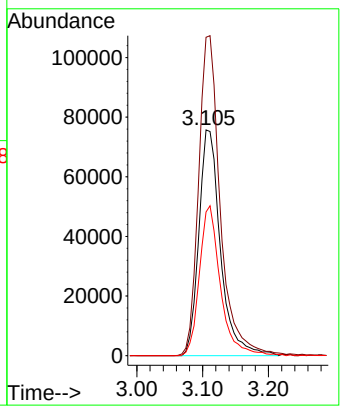




#21
trans-1,2-Dichloroethene
Concen: 54.272 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 96 Resp: 17322

Ion	Ratio	Lower	Upper
96	100		
61	140.8	112.6	169.0
98	63.6	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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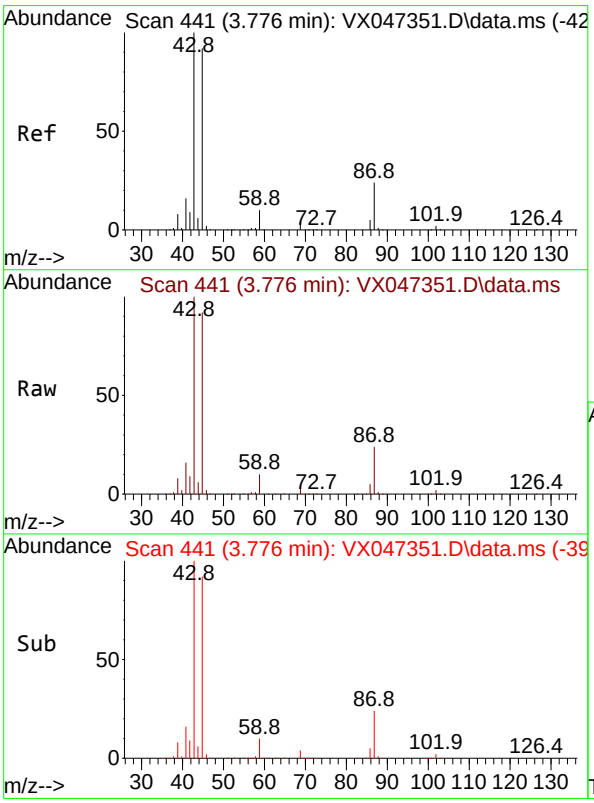
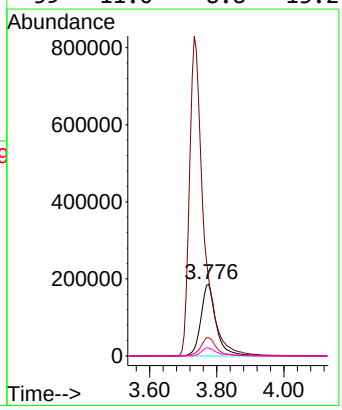
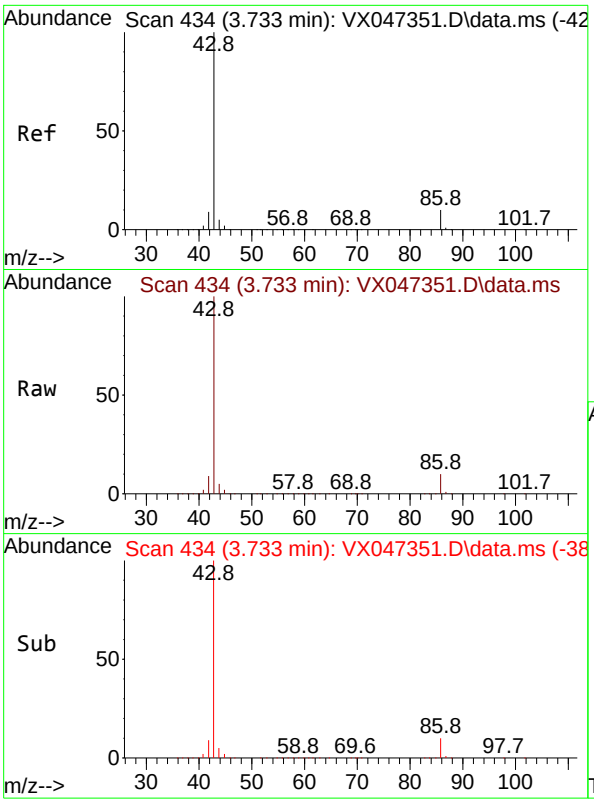


#22
Diisopropyl ether
Concen: 56.909 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 45 Resp: 587571

Ion	Ratio	Lower	Upper
45	100		
43	108.5	86.8	130.2
87	25.5	20.4	30.6
59	11.0	8.8	13.2





#23
Vinyl Acetate
Concen: 287.897 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 43 Resp: 243635

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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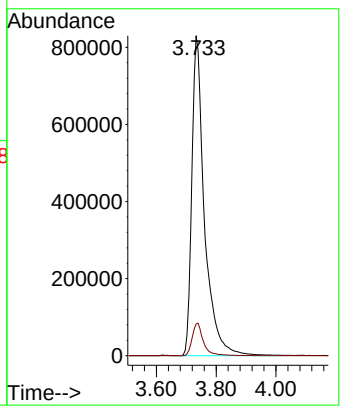
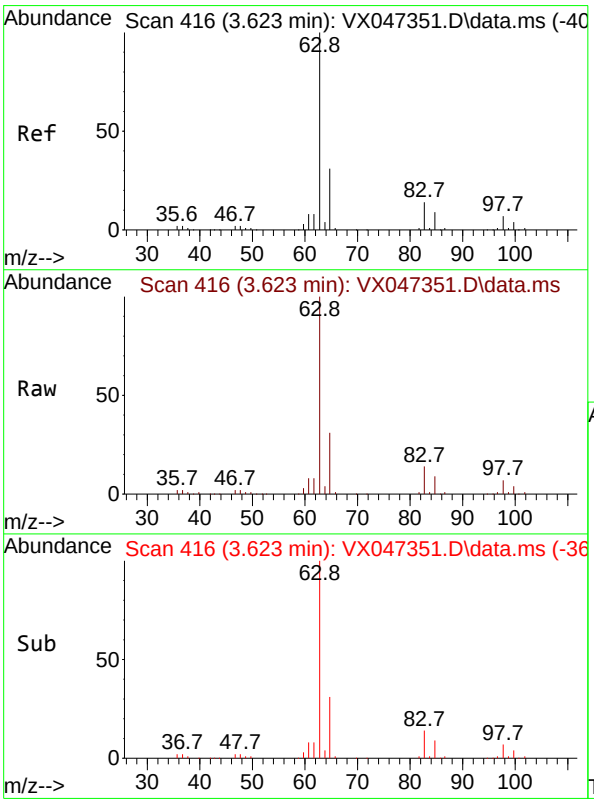
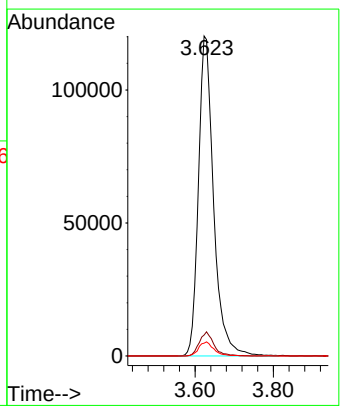


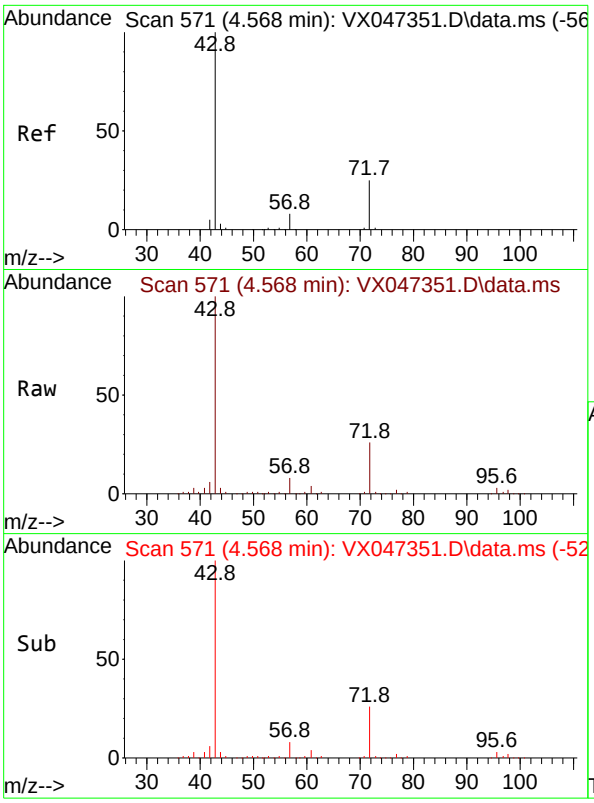


#24
1,1-Dichloroethane
Concen: 55.516 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 63 Resp: 323982

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.9
100	4.2	2.1	6.3

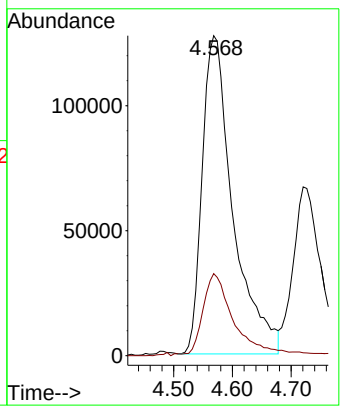




#25
2-Butanone
Concen: 282.051 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 43 Resp: 46413

Ion	Ratio	Lower	Upper
43	100		
72	24.8	19.8	29.8



Instrument :
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ClientSampleId :
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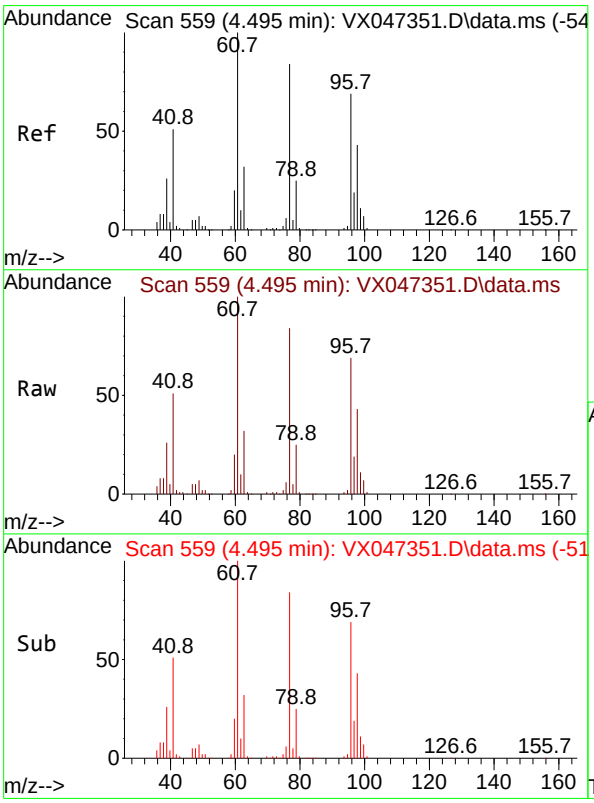
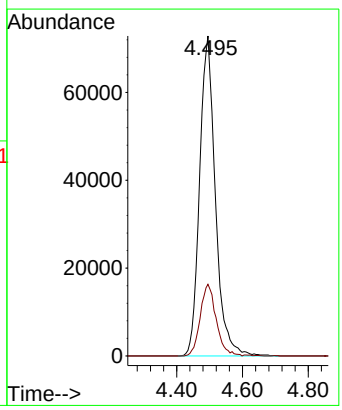
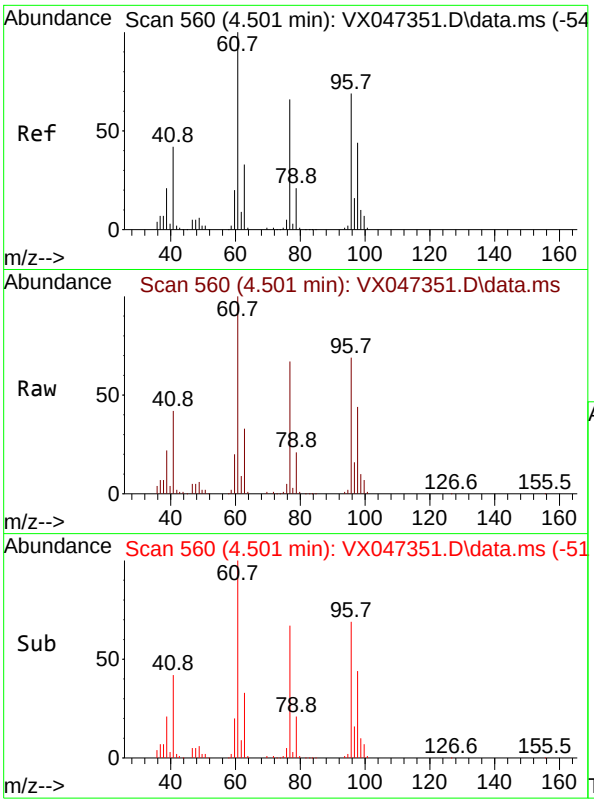


#26
2,2-Dichloropropane
Concen: 55.137 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 77 Resp: 242859

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.4	34.1

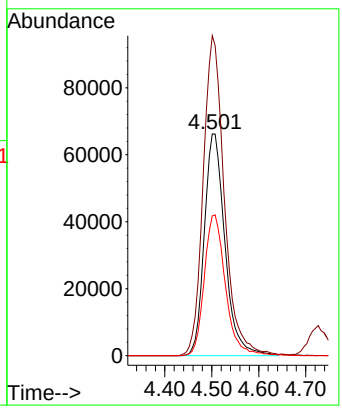




#27
cis-1,2-Dichloroethene
Concen: 54.366 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 96 Resp: 20210

Ion	Ratio	Lower	Upper
96	100		
61	148.3	0.0	296.6
98	65.2	0.0	130.4



Instrument :
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ClientSampleId :
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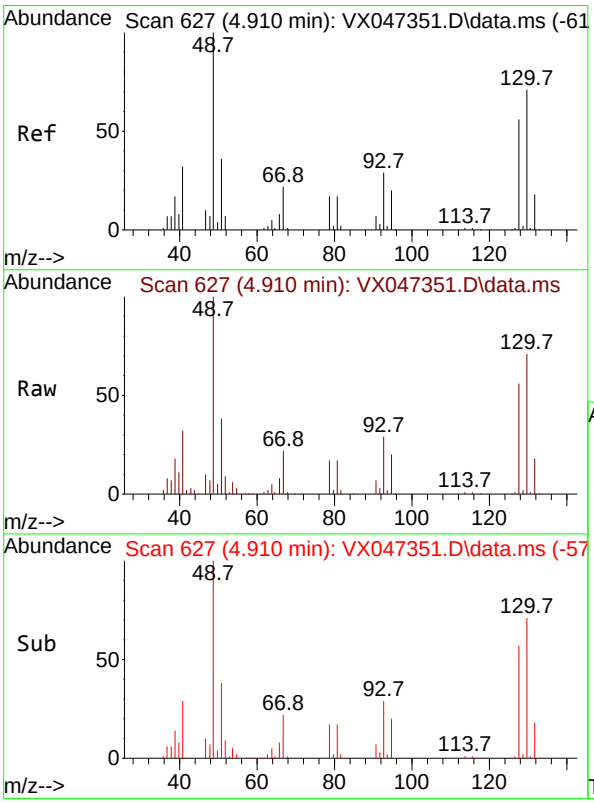
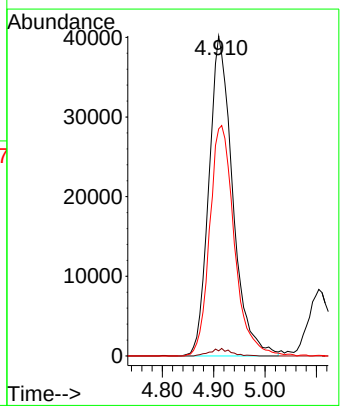
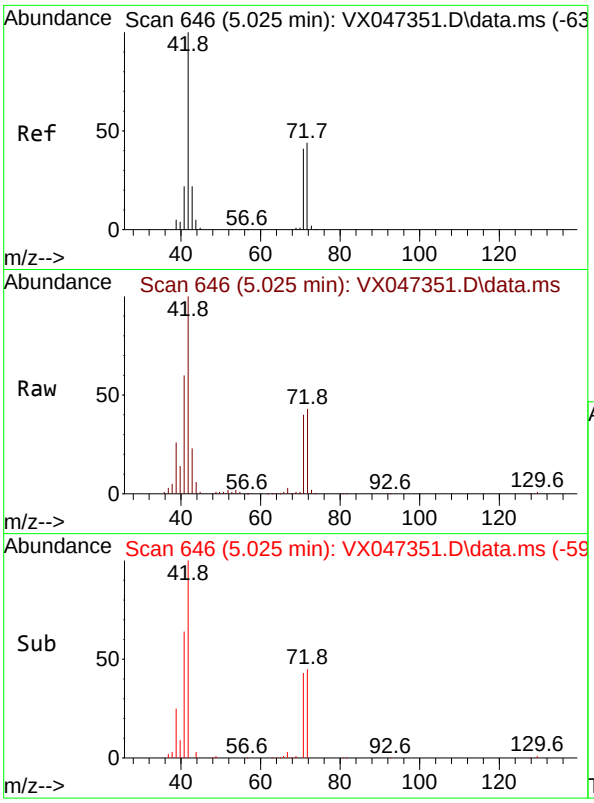


#28
Bromochloromethane
Concen: 53.153 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 49 Resp: 129079

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	74.7	59.8	89.6

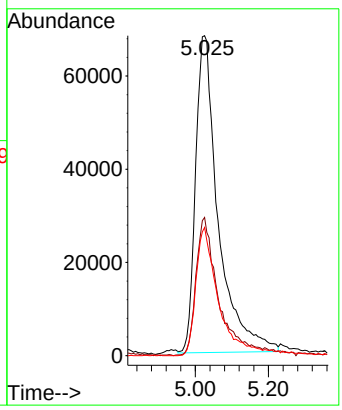




#29
Tetrahydrofuran
Concen: 275.925 ug/l
RT: 5.025 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 42 Resp: 29347

Ion	Ratio	Lower	Upper
42	100		
72	43.2	34.6	51.8
71	40.8	32.6	49.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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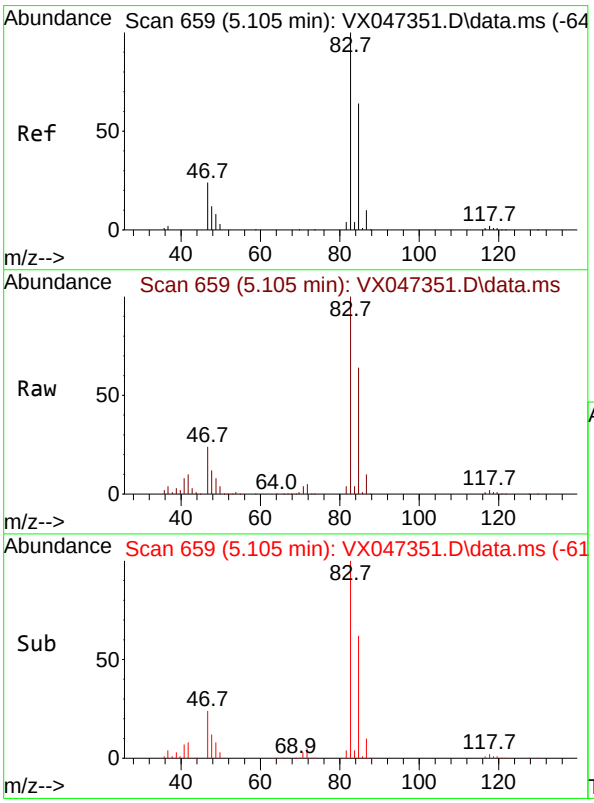
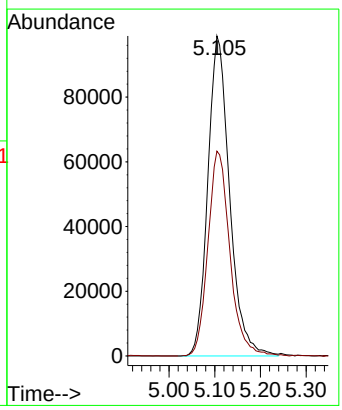
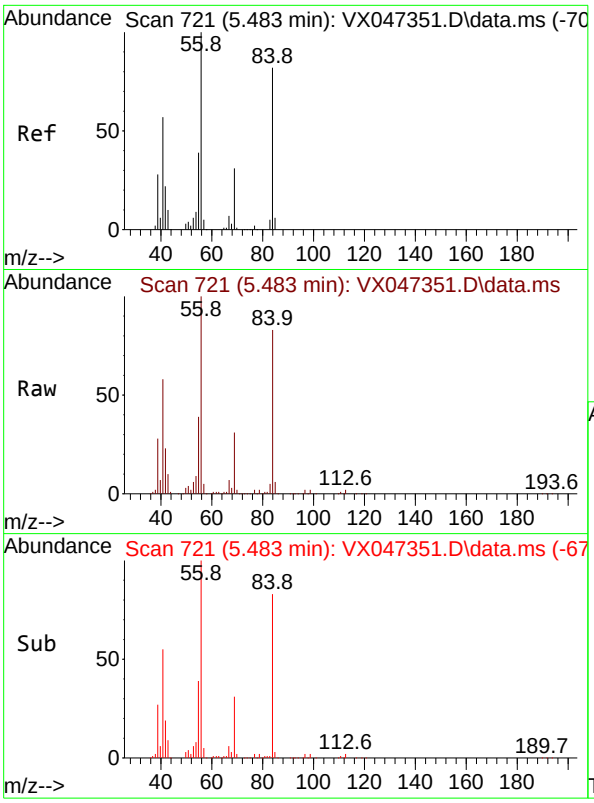


#30
Chloroform
Concen: 54.867 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 83 Resp: 326781

Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.2	76.8

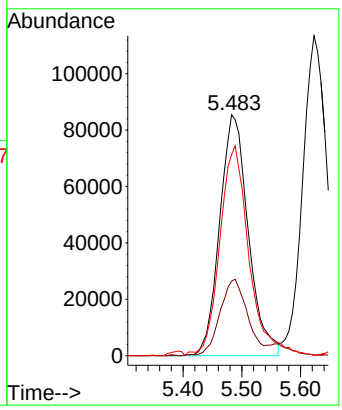




#31
Cyclohexane
Concen: 53.705 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 56 Resp: 28891

Ion	Ratio	Lower	Upper
56	100		
69	30.4	24.3	36.5
84	81.6	65.3	97.9



Instrument :
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ClientSampleId :
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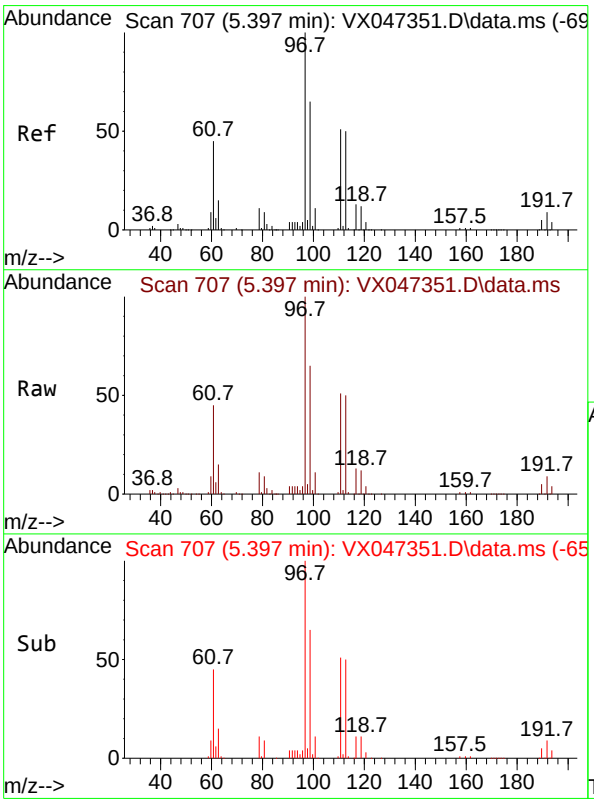
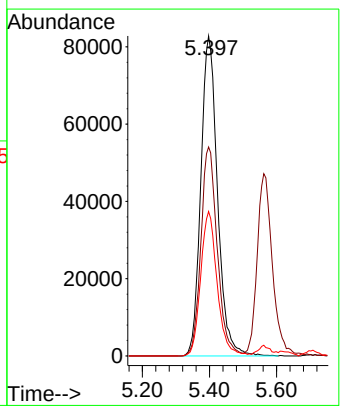
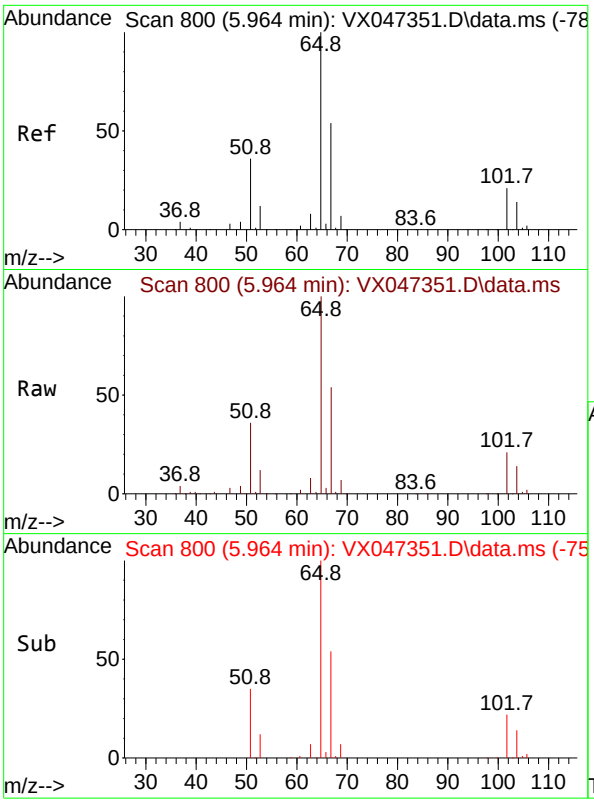


#32
1,1,1-Trichloroethane
Concen: 55.692 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 97 Resp: 285500

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.0
61	44.6	35.7	53.5

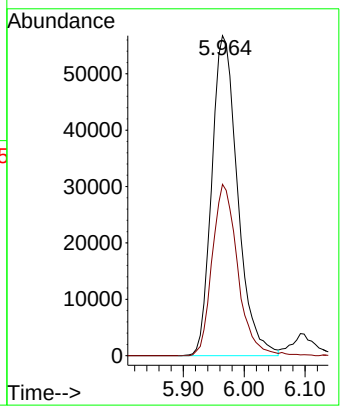




#33
1,2-Dichloroethane-d4
Concen: 50.030 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 65 Resp: 16723

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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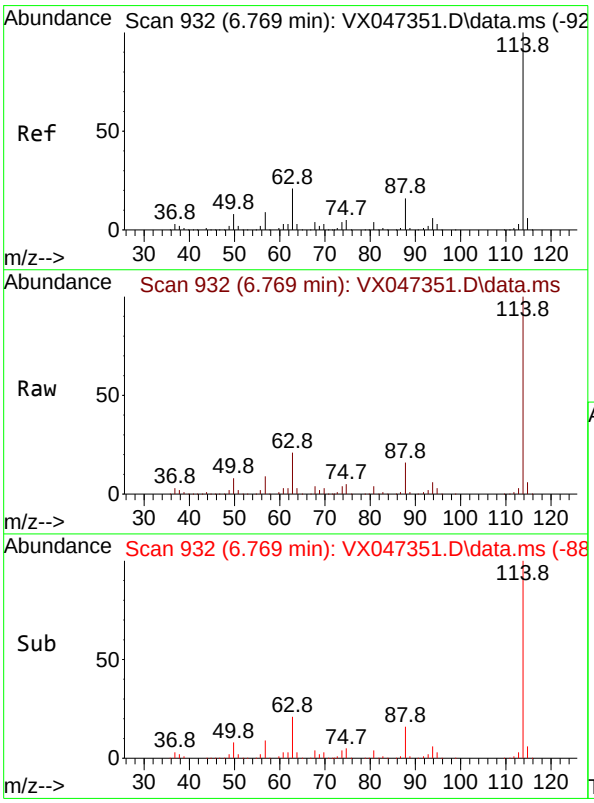
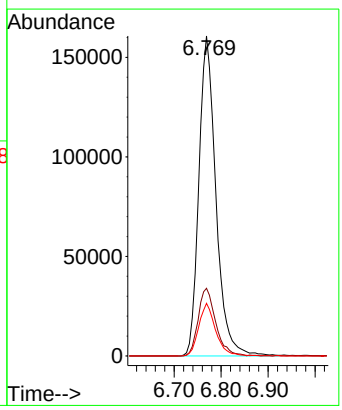
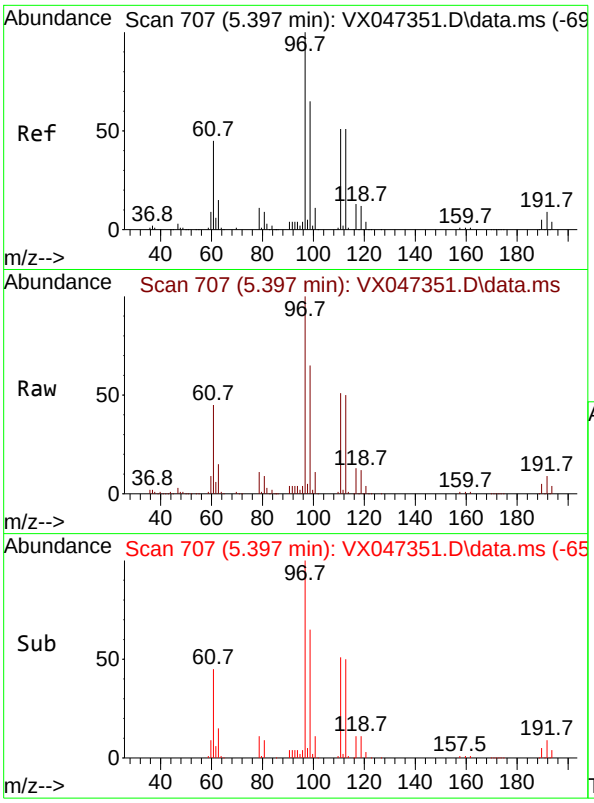


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:114 Resp: 405572

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	16.5	0.0	33.0

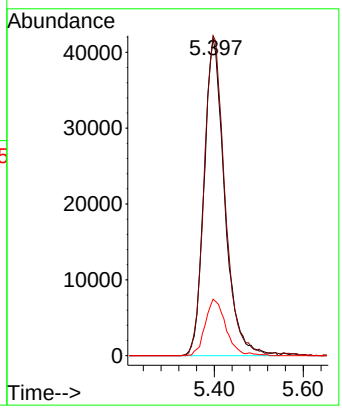




#35
Dibromofluoromethane
Concen: 51.074 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:113 Resp: 13443

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.4	122.2
192	17.6	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
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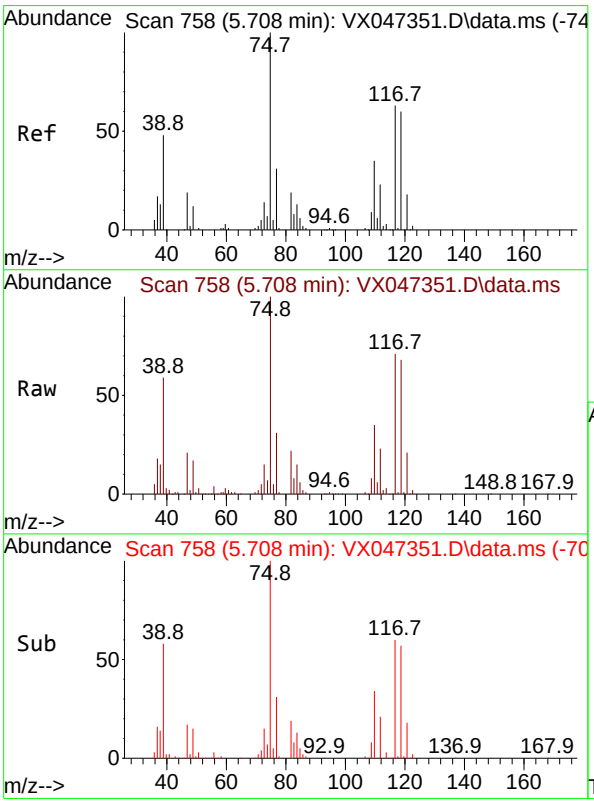
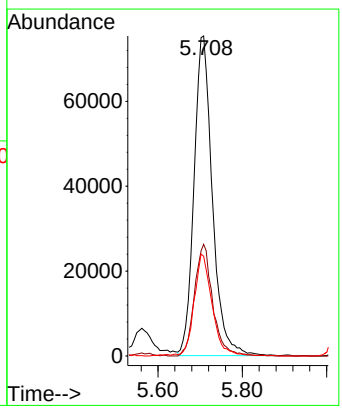
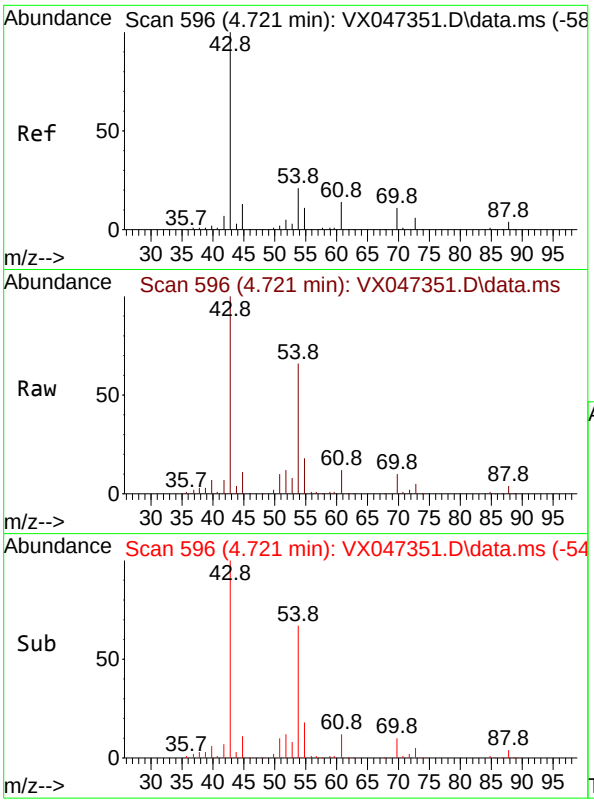


#36
1,1-Dichloropropene
Concen: 54.893 ug/l
RT: 5.708 min Scan# 758
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 75 Resp: 228086

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.4	52.2
77	30.5	24.4	36.6

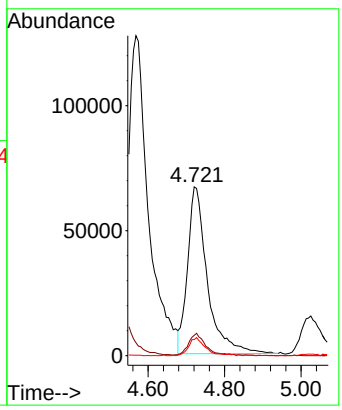




#37
Ethyl Acetate
Concen: 55.477 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 43 Resp: 23931

Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.4	14.2
70	8.8	7.0	10.6



Instrument :
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ClientSampleId :
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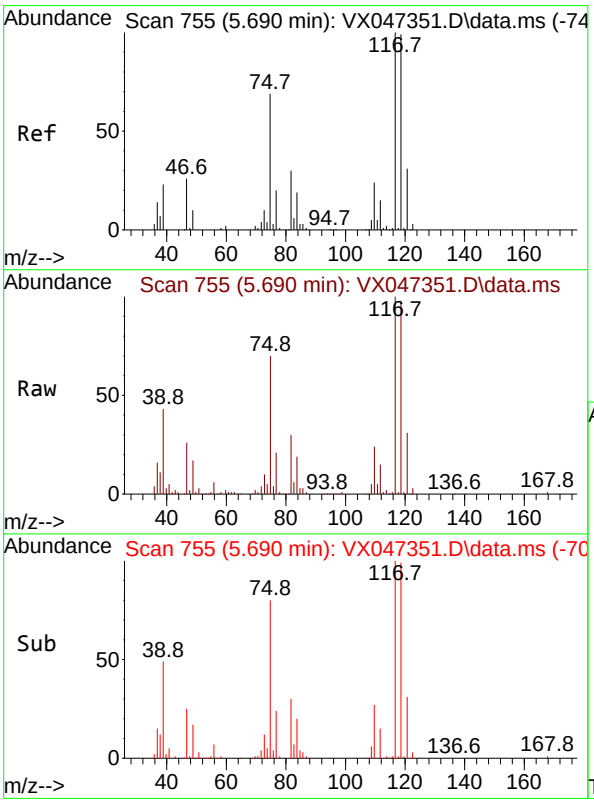
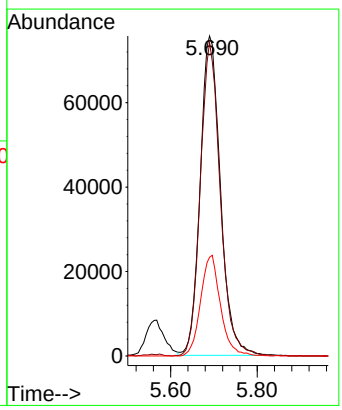
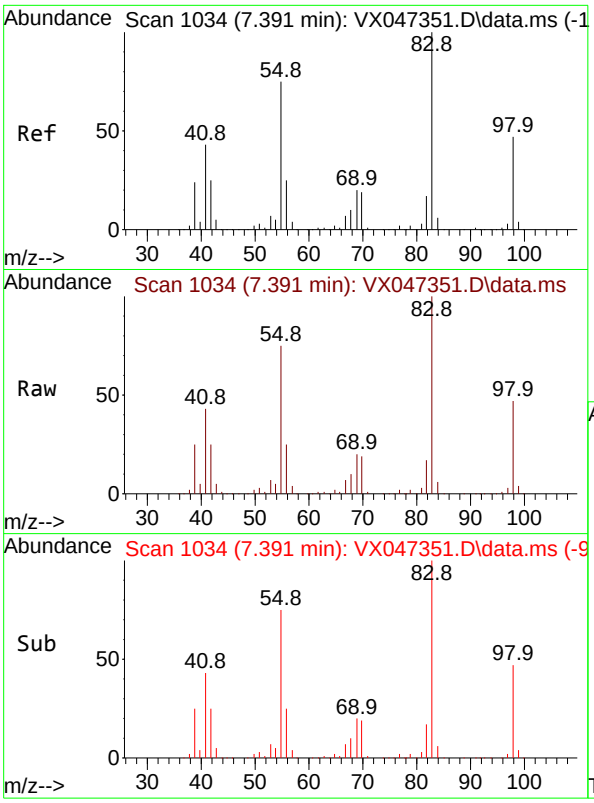


#38
Carbon Tetrachloride
Concen: 54.258 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:117 Resp: 246368

Ion	Ratio	Lower	Upper
117	100		
119	98.1	78.5	117.7
121	30.9	24.7	37.1

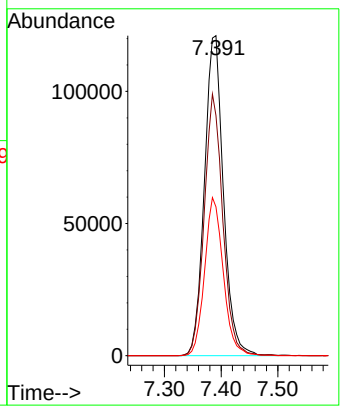




#39
Methylcyclohexane
Concen: 54.402 ug/l
RT: 7.391 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 83 Resp: 28196

Ion	Ratio	Lower	Upper
83	100		
55	75.0	60.0	90.0
98	46.5	37.2	55.8



Instrument :
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ClientSampleId :
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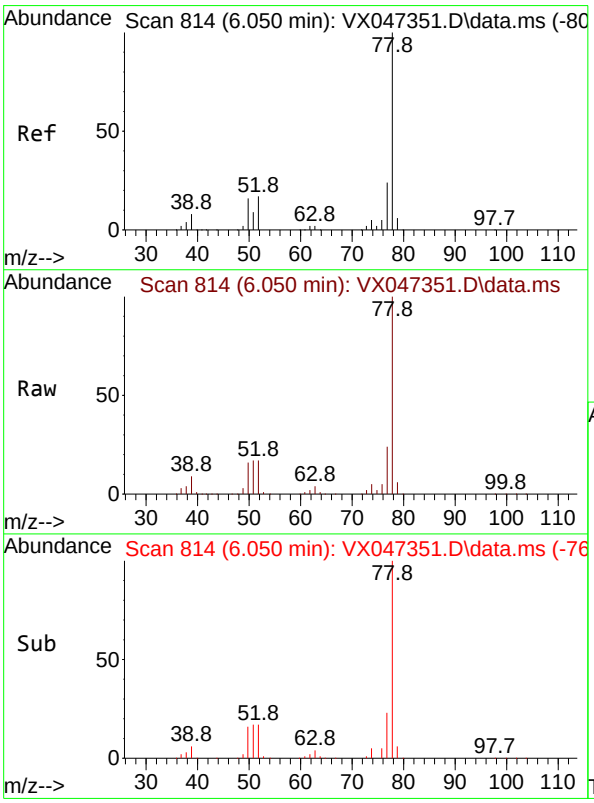
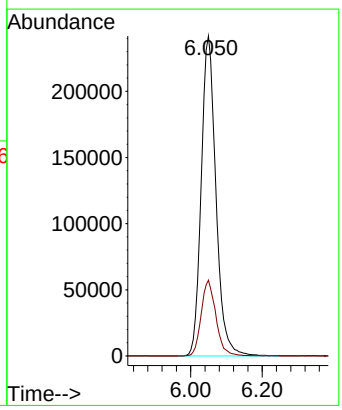
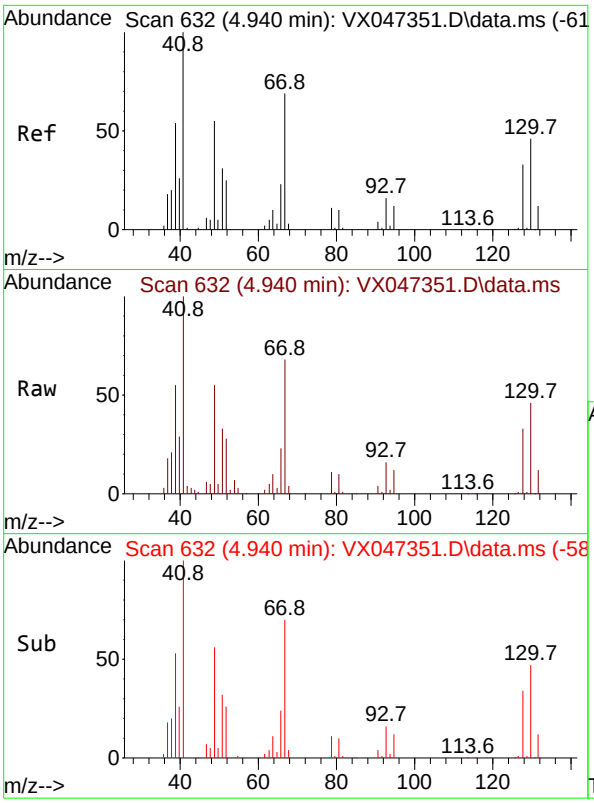


#40
Benzene
Concen: 55.477 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 78 Resp: 689965

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4

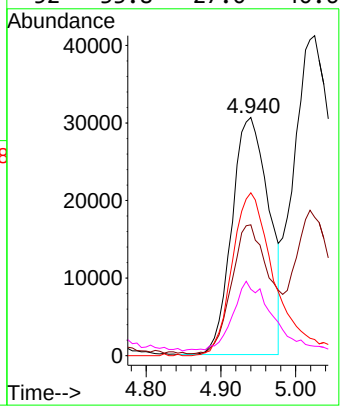




#41
Methacrylonitrile
Concen: 57.547 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 41 Resp: 10468

Ion	Ratio	Lower	Upper
41	100		
39	56.8	45.4	68.2
67	80.0	64.0	96.0
52	33.8	27.0	40.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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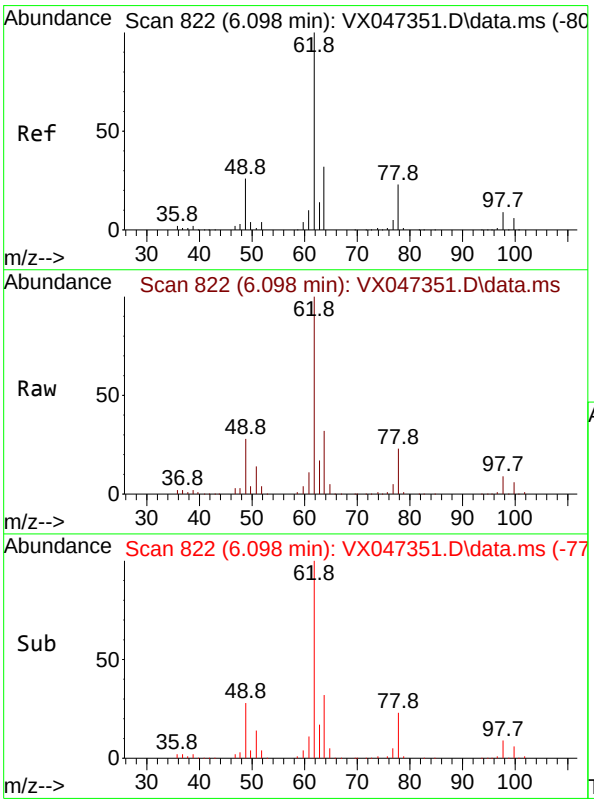
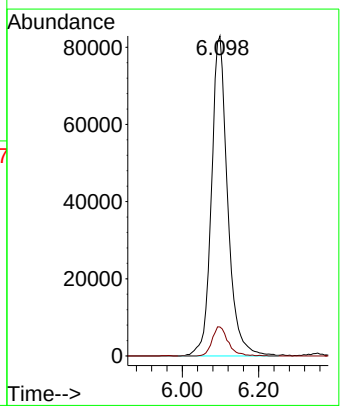
Supervised By :Mahesh Dadoda 08/19/2025

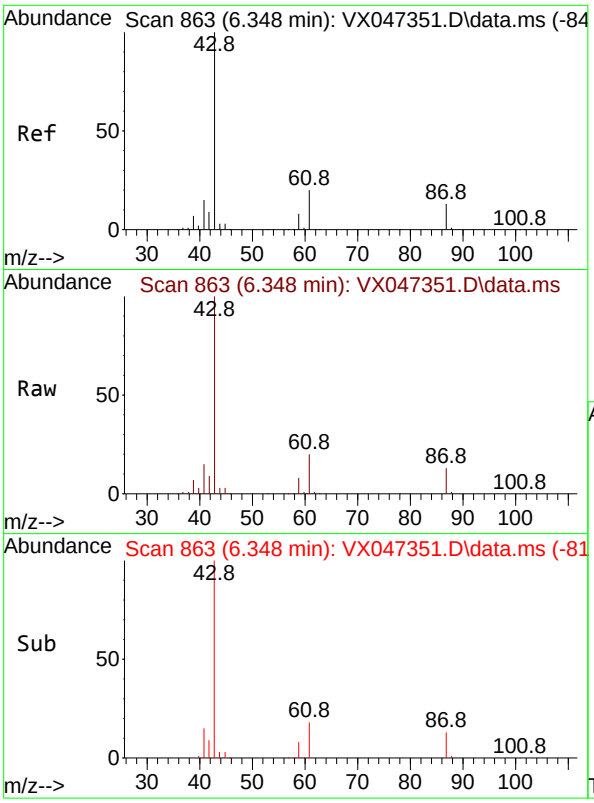


#42
1,2-Dichloroethane
Concen: 55.271 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 62 Resp: 243489

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.0

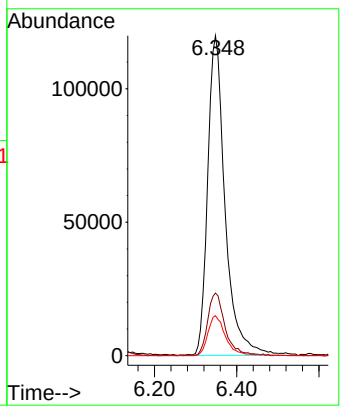




#43
Isopropyl Acetate
Concen: 56.817 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 43 Resp: 35209

Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.4	23.0
87	12.8	10.2	15.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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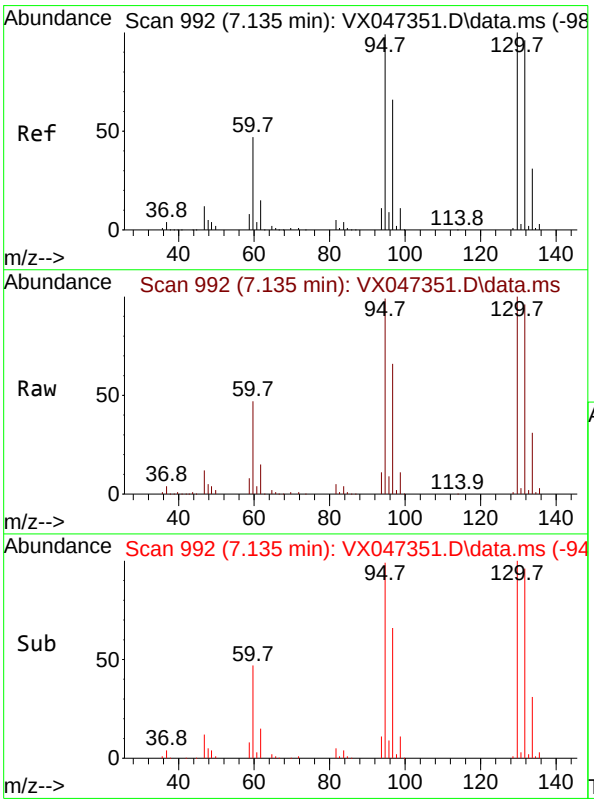
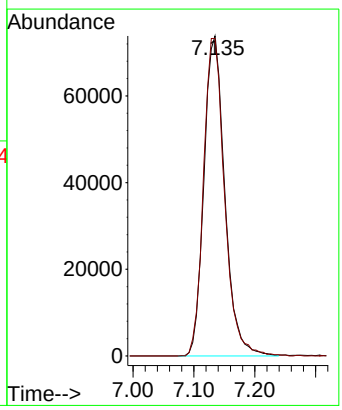
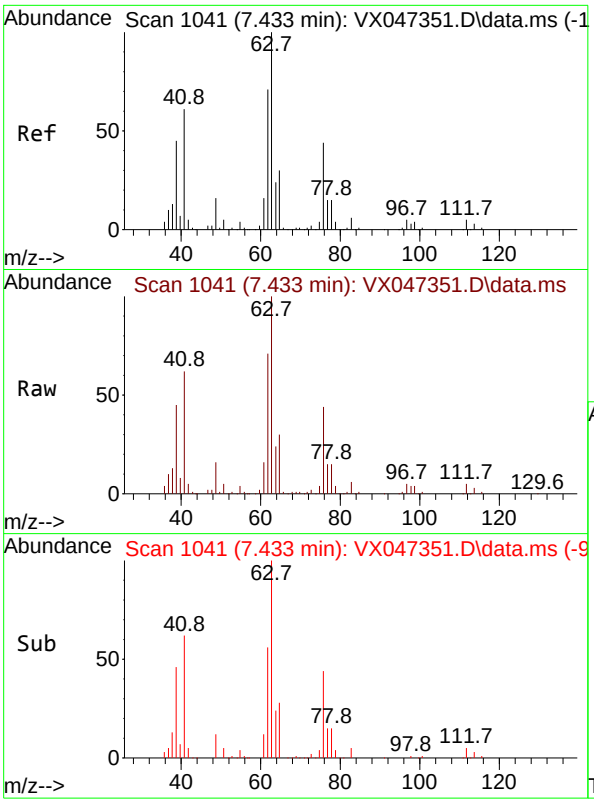


#44
Trichloroethene
Concen: 55.081 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:130 Resp: 175409

Ion	Ratio	Lower	Upper
130	100		
95	99.3	0.0	198.6

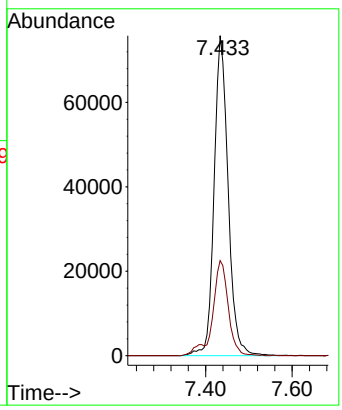




#45
1,2-Dichloropropane
Concen: 54.740 ug/l
RT: 7.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 63 Resp: 17055

Ion	Ratio	Lower	Upper
63	100		
65	29.7	23.8	35.6



Instrument :
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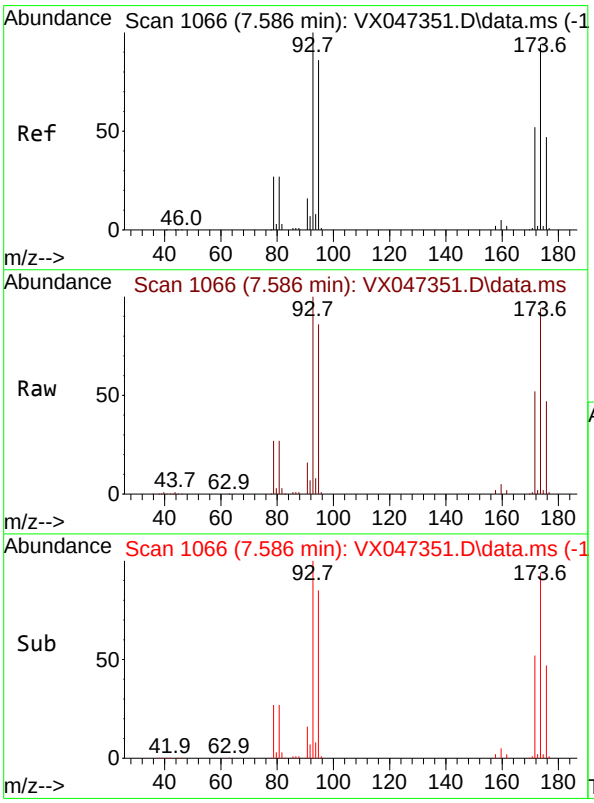
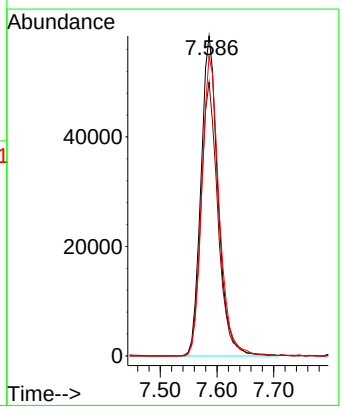
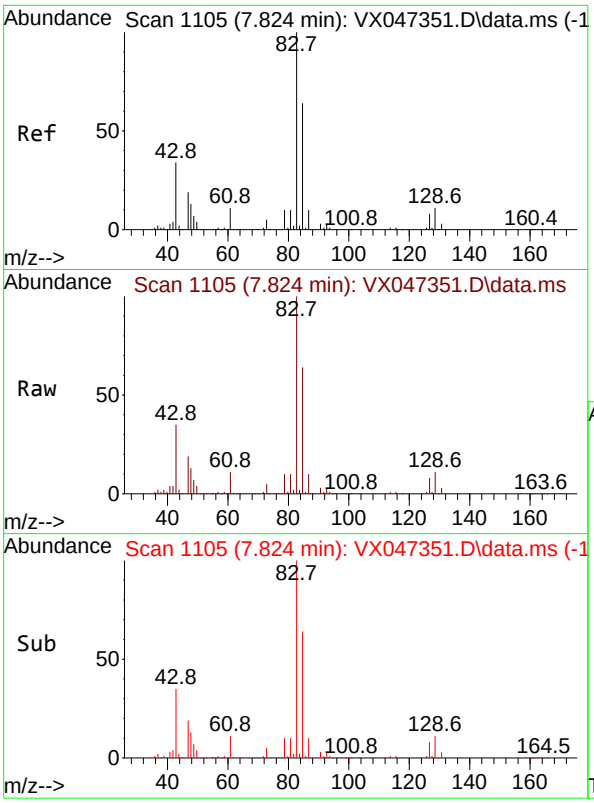


#46
Dibromomethane
Concen: 54.124 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 93 Resp: 122428

Ion	Ratio	Lower	Upper
93	100		
95	85.0	68.0	102.0
174	94.7	75.8	113.6

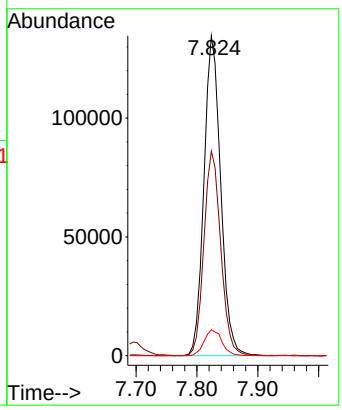




#47
Bromodichloromethane
Concen: 54.888 ug/l
RT: 7.824 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 83 Resp: 25739

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.0	76.6
127	8.7	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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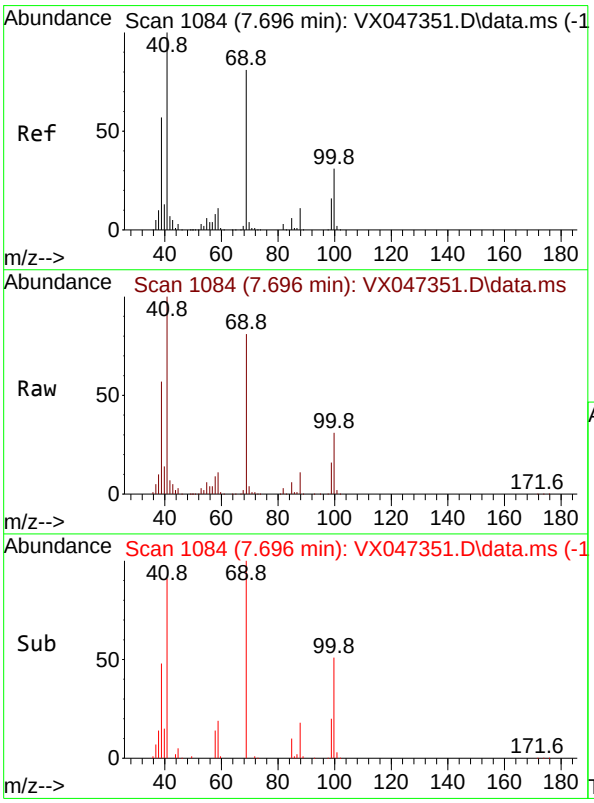
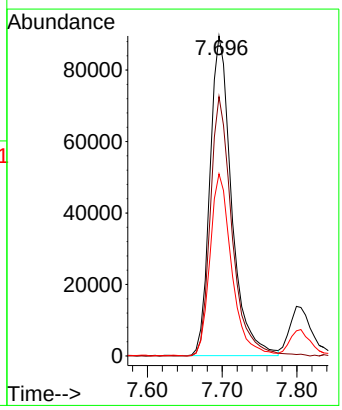
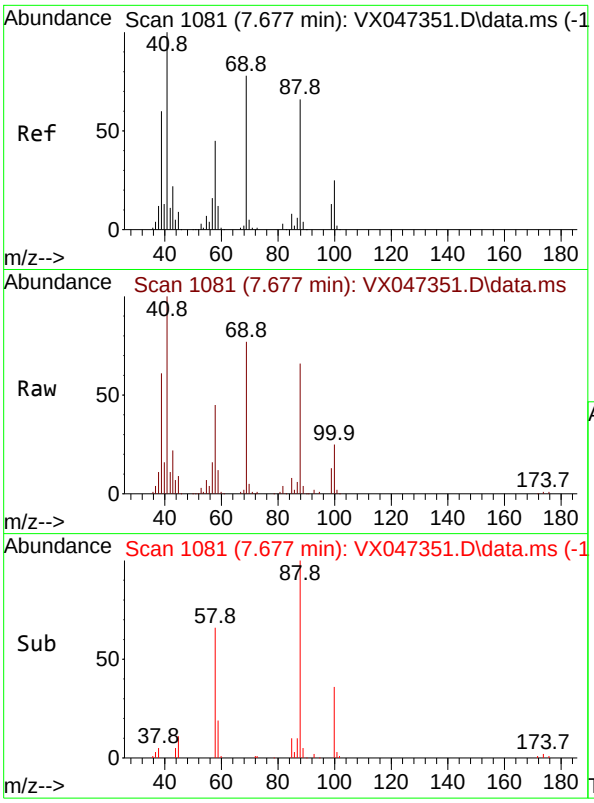


#48
Methyl methacrylate
Concen: 56.136 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 41 Resp: 180568

Ion	Ratio	Lower	Upper
41	100		
69	81.2	65.0	97.4
39	57.1	45.7	68.5

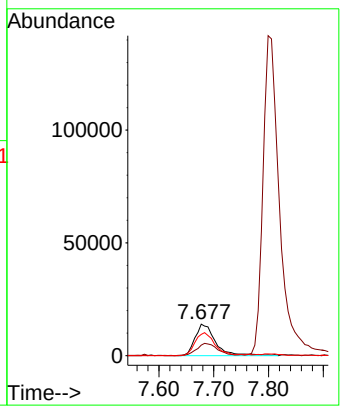




#49
1,4-Dioxane
Concen: 1188.274 ug/l
RT: 7.677 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 88 Resp: 3629

Ion	Ratio	Lower	Upper
88	100		
43	40.5	32.4	48.6
58	71.1	56.9	85.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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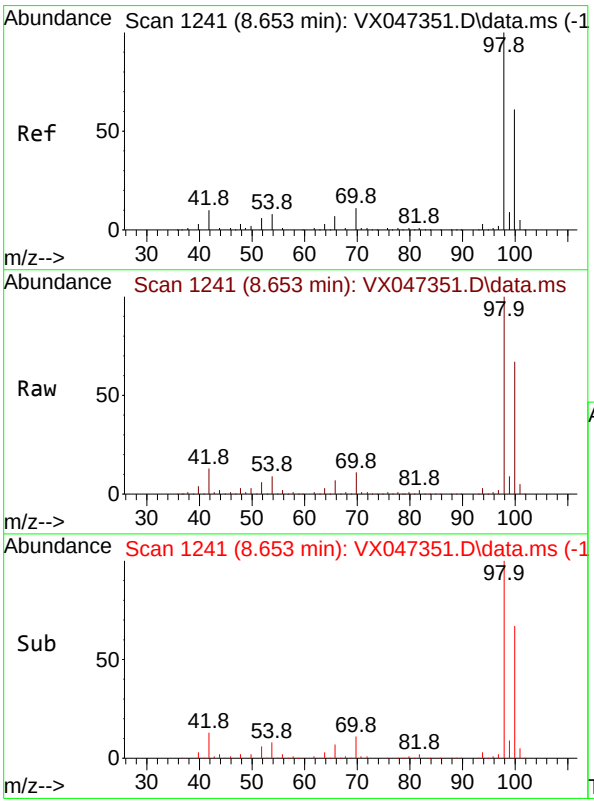
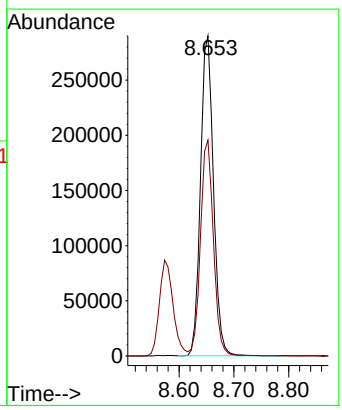
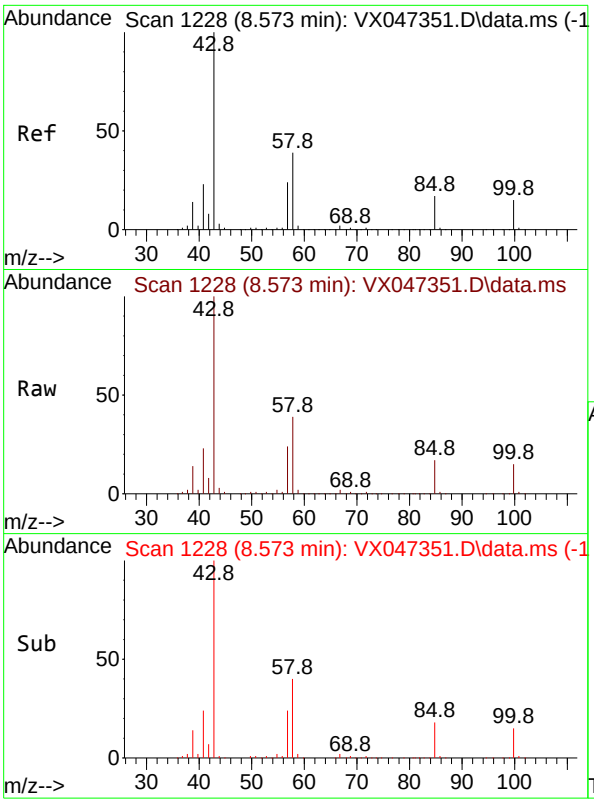


#50
Toluene-d8
Concen: 50.492 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 98 Resp: 475041

Ion	Ratio	Lower	Upper
98	100		
100	67.4	53.9	80.9

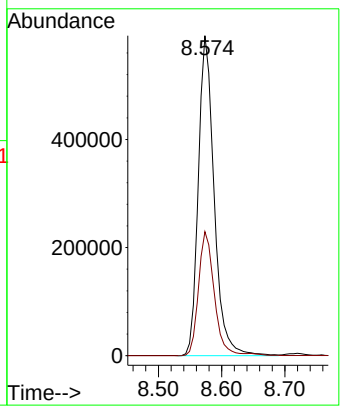




#51
4-Methyl-2-Pentanone
Concen: 289.311 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 43 Resp: 103170

Ion	Ratio	Lower	Upper
43	100		
58	39.0	31.2	46.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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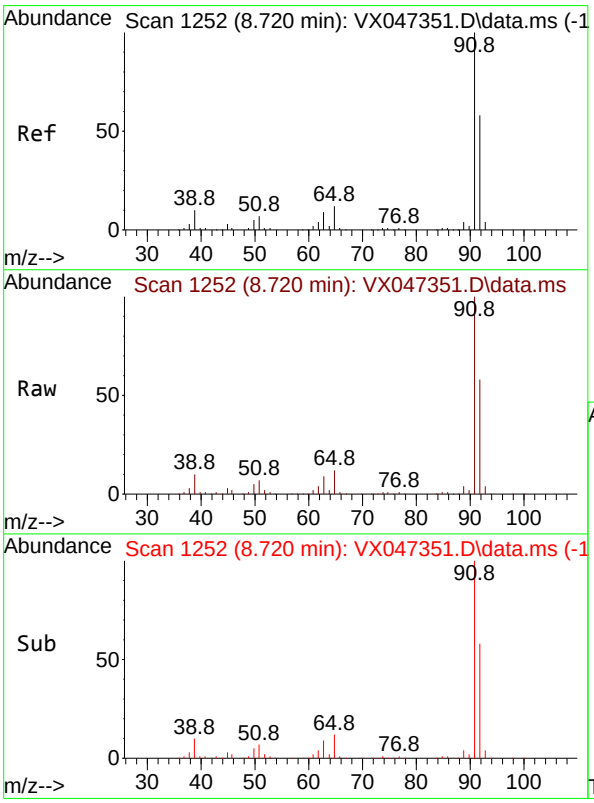
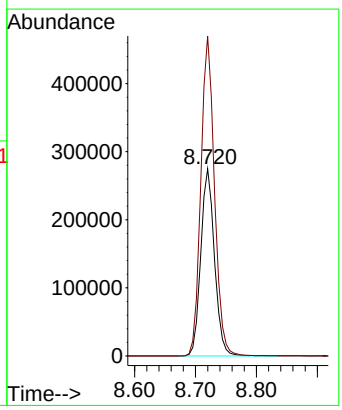
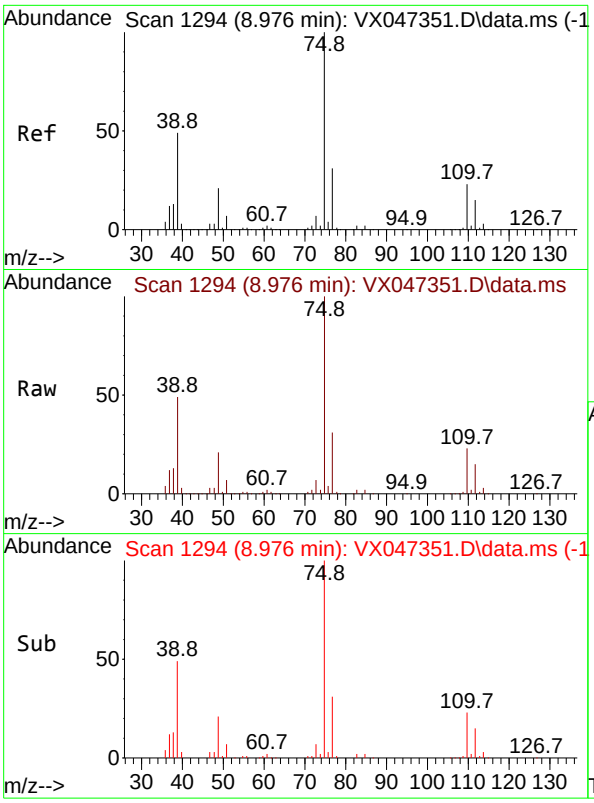


#52
Toluene
Concen: 55.767 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 92 Resp: 428577

Ion	Ratio	Lower	Upper
92	100		
91	170.4	136.3	204.5

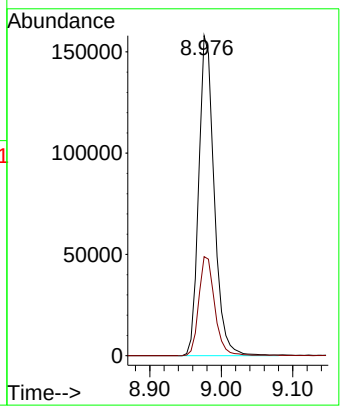




#53
t-1,3-Dichloropropene
Concen: 57.913 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 75 Resp: 23702

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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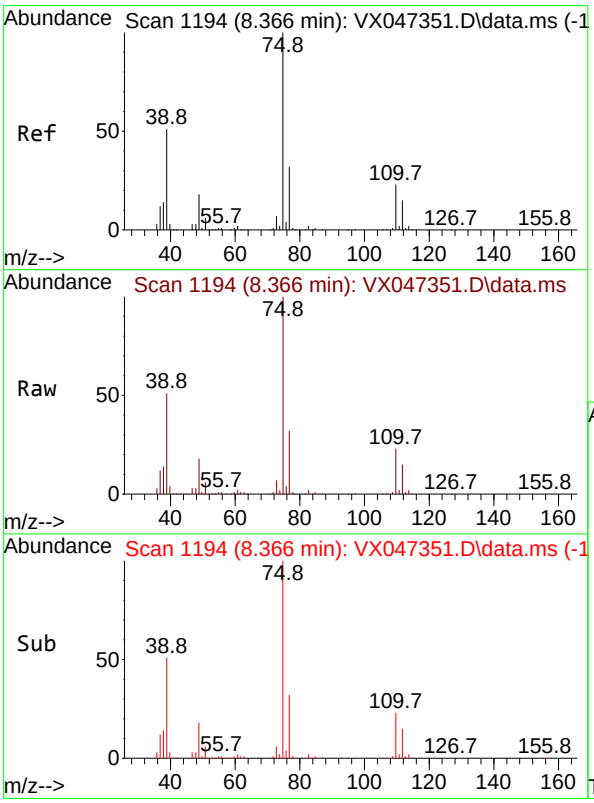
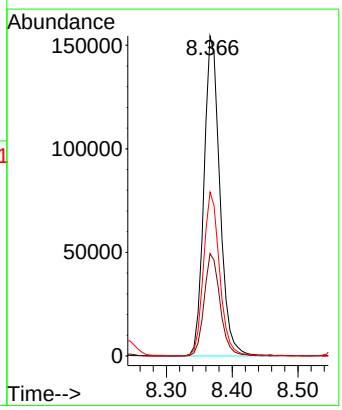
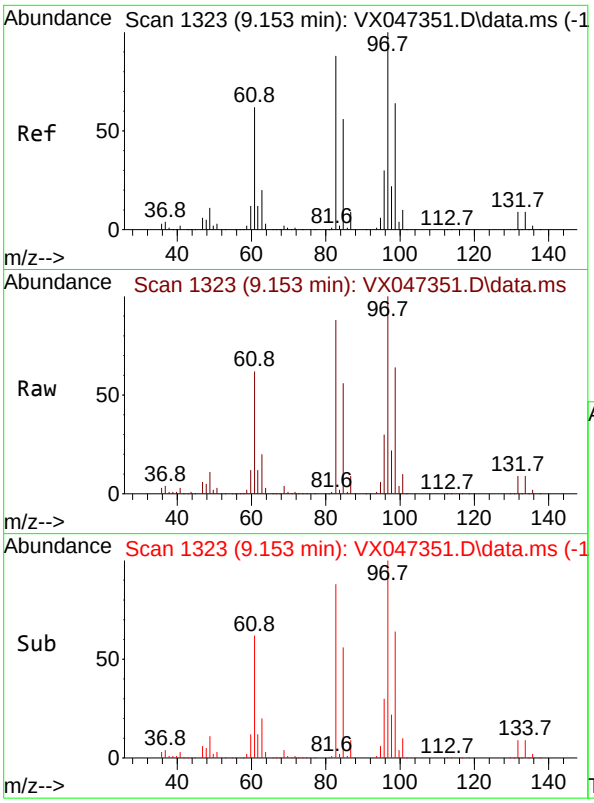


#54
cis-1,3-Dichloropropene
Concen: 56.202 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 75 Resp: 260352

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.6	38.4
39	51.1	40.9	61.3

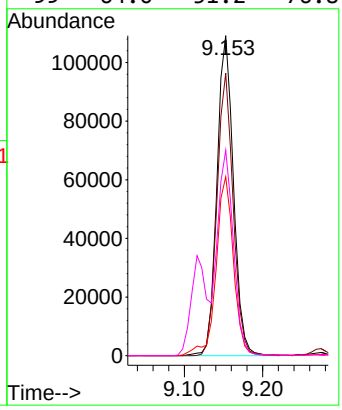




#55
1,1,2-Trichloroethane
Concen: 54.984 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 97 Resp: 16043

Ion	Ratio	Lower	Upper
97	100		
83	88.3	70.6	106.0
85	55.9	44.7	67.1
99	64.0	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
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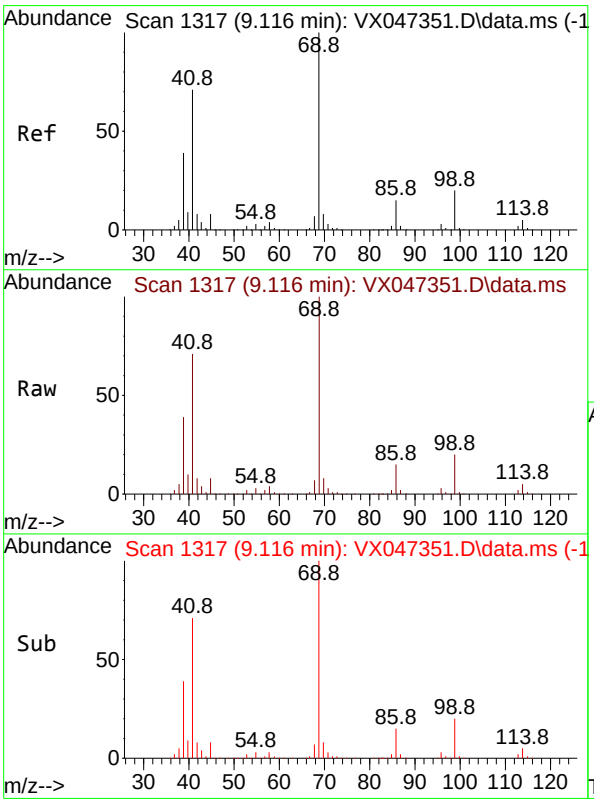
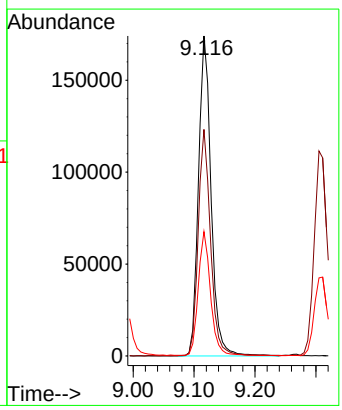
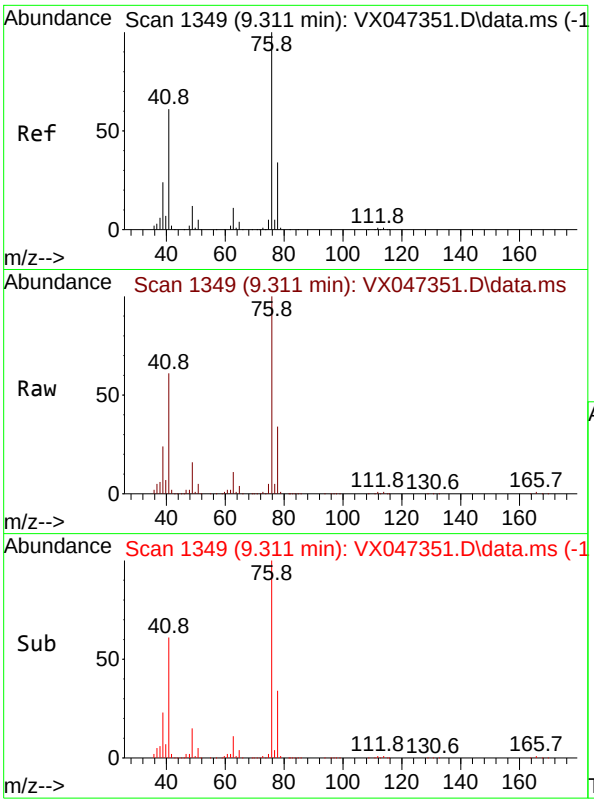


#56
Ethyl methacrylate
Concen: 58.164 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 69 Resp: 250221

Ion	Ratio	Lower	Upper
69	100		
41	69.1	55.3	82.9
39	37.7	30.2	45.2





#57
1,3-Dichloropropane
Concen: 54.656 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 76 Resp: 27175

Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.2	39.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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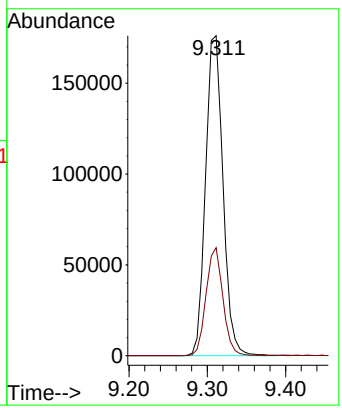
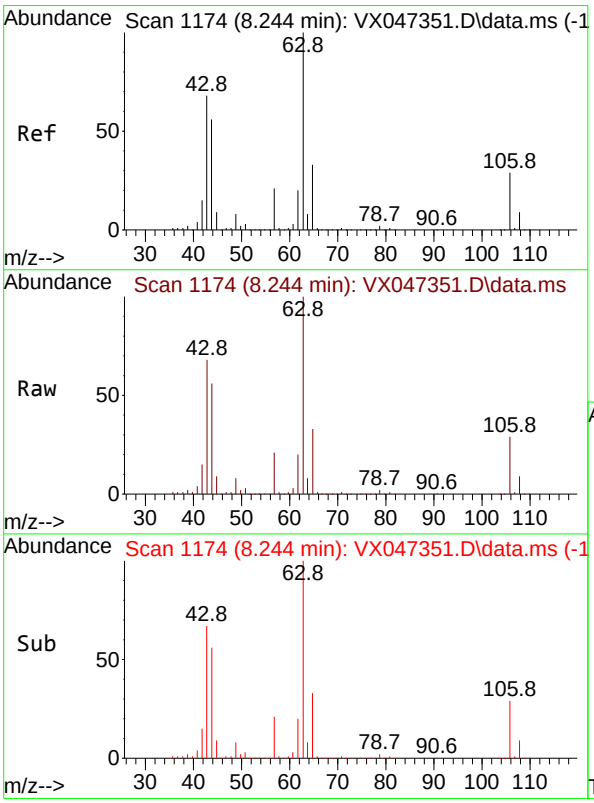
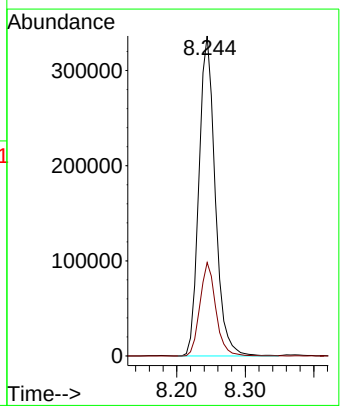


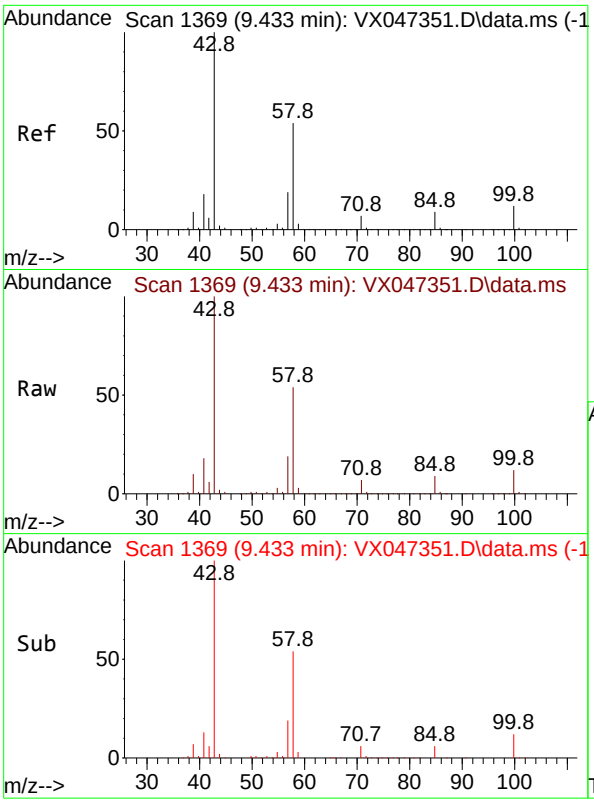


#58
2-Chloroethyl Vinyl ether
Concen: 269.738 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 63 Resp: 555513

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.8	34.2

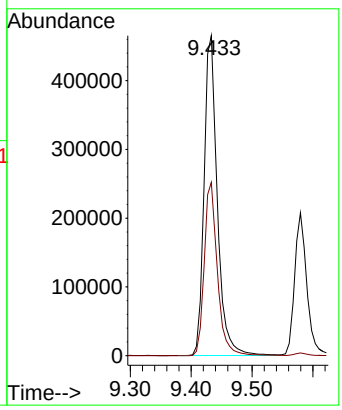




#59
2-Hexanone
Concen: 285.099 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 43 Resp: 70326

Ion	Ratio	Lower	Upper
43	100		
58	53.8	26.9	80.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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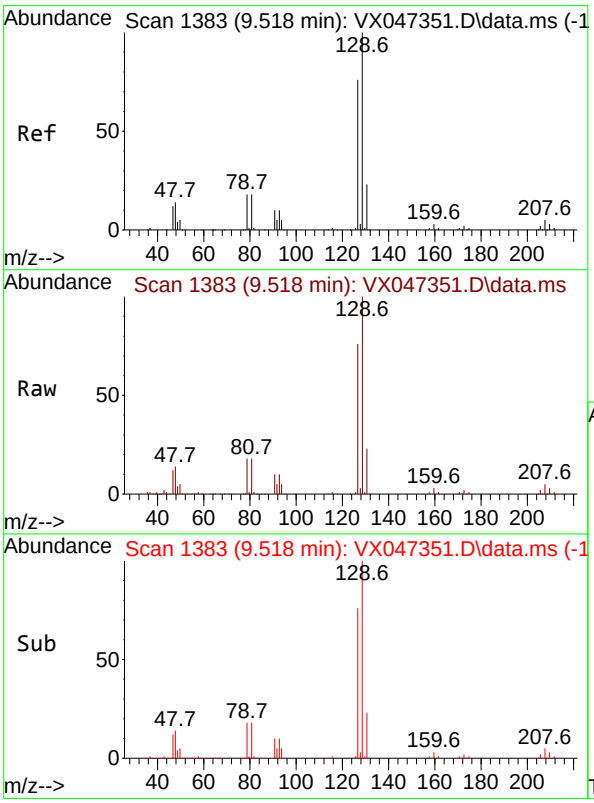
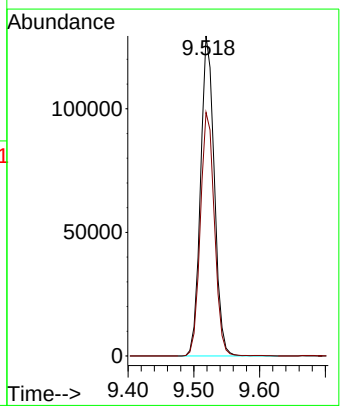
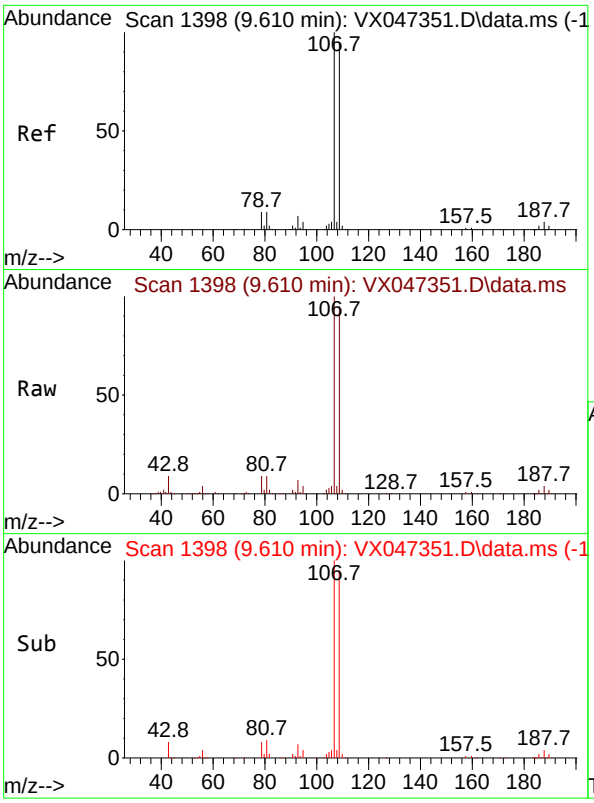


#60
Dibromochloromethane
Concen: 54.326 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:129 Resp: 188384

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.9	116.6

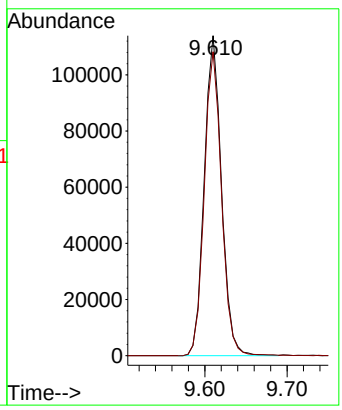




#61
1,2-Dibromoethane
Concen: 55.095 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:107 Resp: 16577

Ion	Ratio	Lower	Upper
107	100		
109	95.2	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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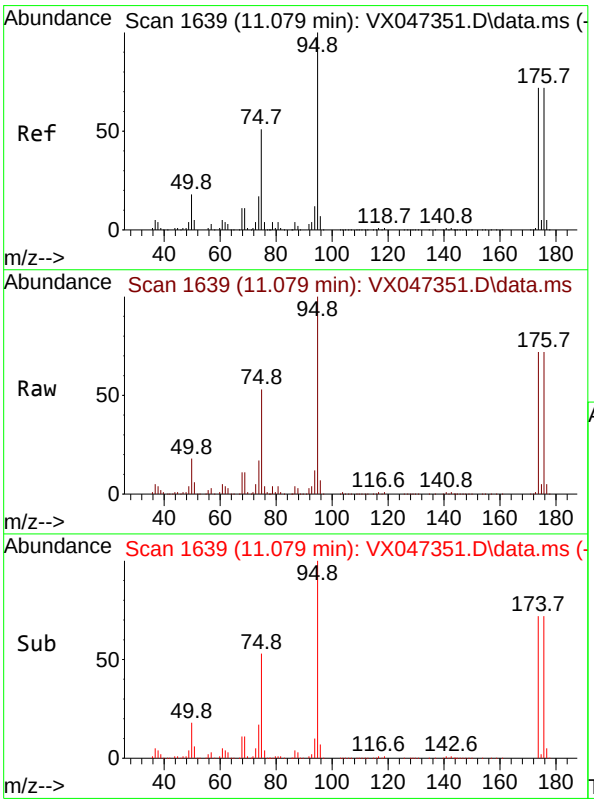
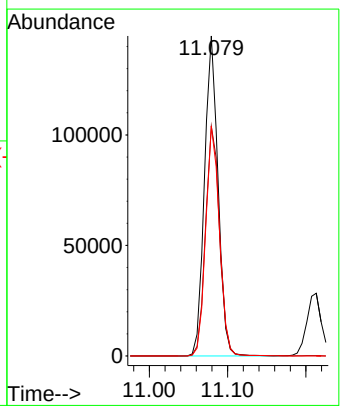
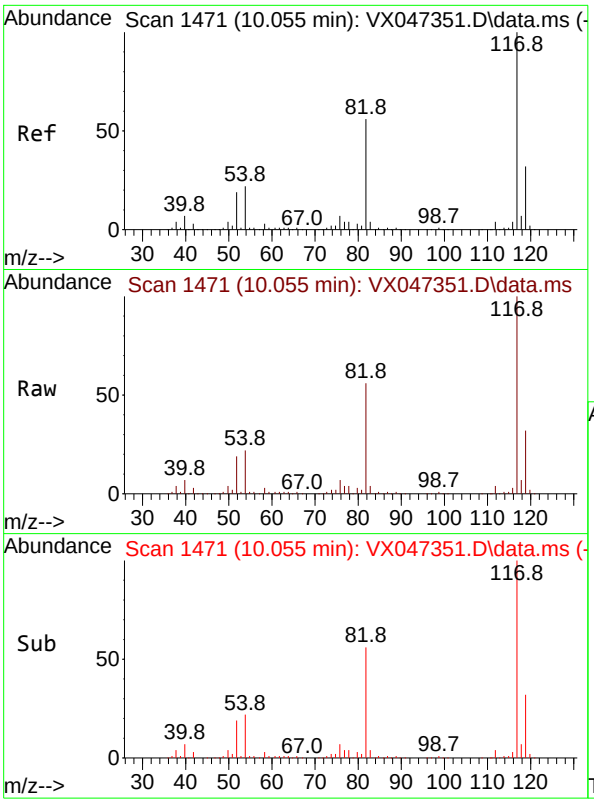


#62
4-Bromofluorobenzene
Concen: 50.050 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 95 Resp: 173764

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	148.0
176	72.7	0.0	145.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:117 Resp: 36312

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.0	67.4
119	32.3	25.8	38.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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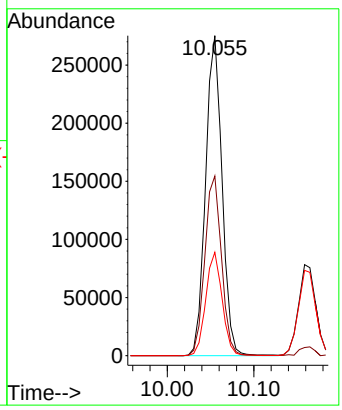
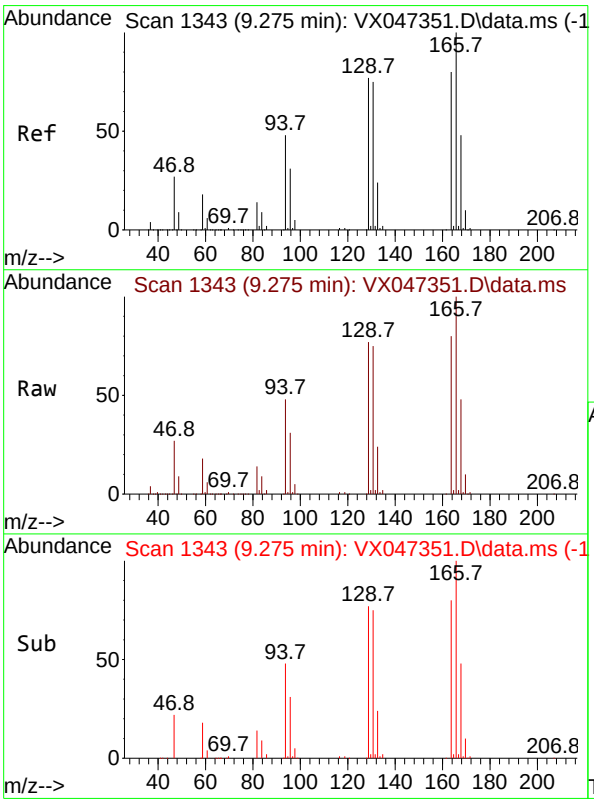
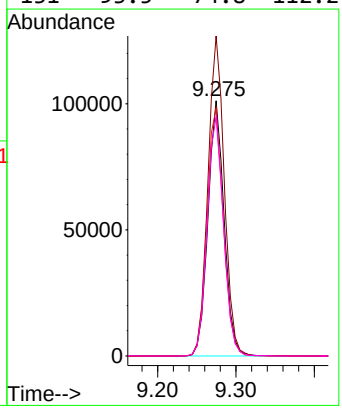


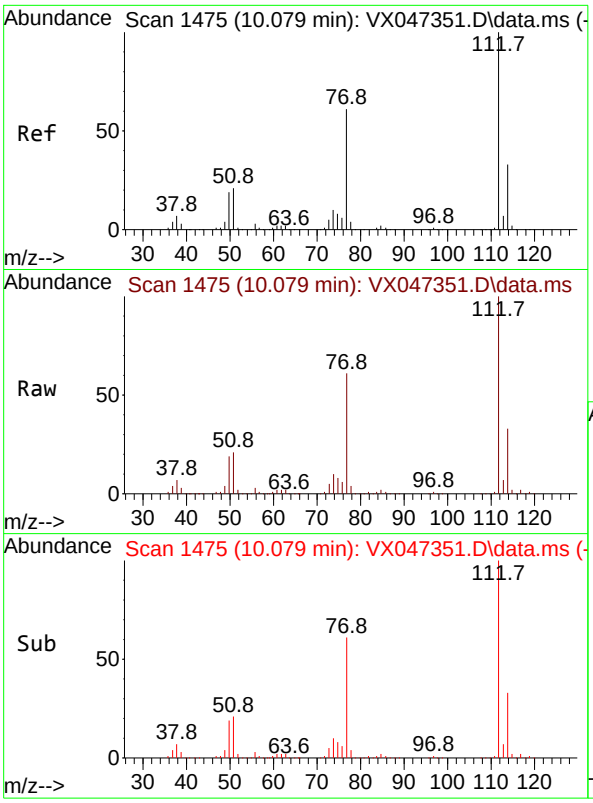


#64
Tetrachloroethene
Concen: 54.962 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:164 Resp: 144361

Ion	Ratio	Lower	Upper
164	100		
166	125.4	100.3	150.5
129	97.1	77.7	116.5
131	93.5	74.8	112.2

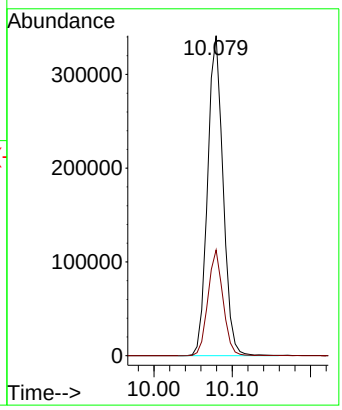




#65
Chlorobenzene
Concen: 54.119 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:112 Resp: 46700

Ion	Ratio	Lower	Upper
112	100		
114	33.0	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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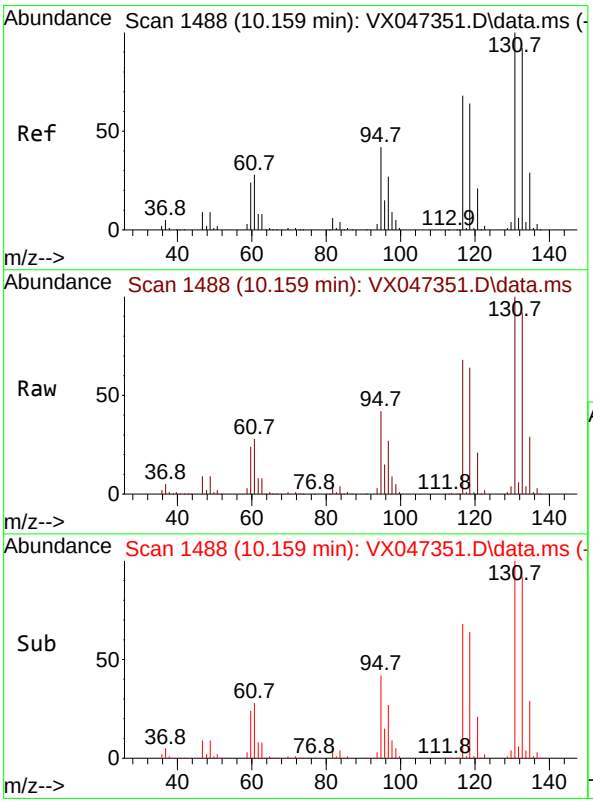
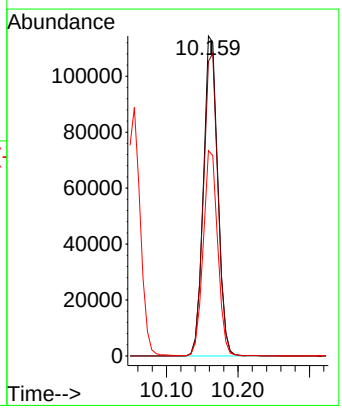
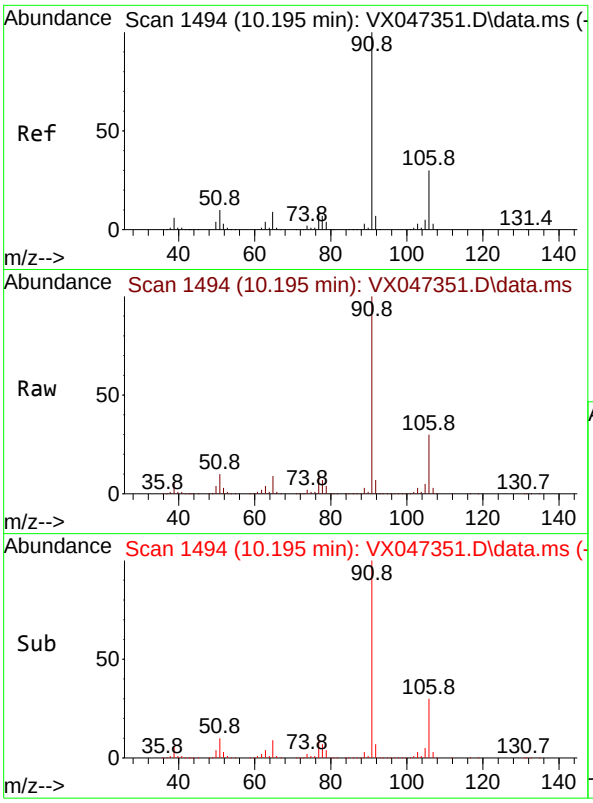


#66
1,1,1,2-Tetrachloroethane
Concen: 54.954 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:131 Resp: 160305

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.6	142.9
119	64.5	32.3	96.8

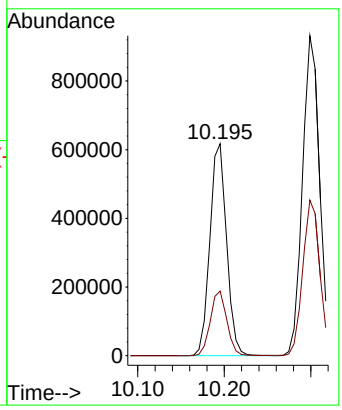




#67
Ethyl Benzene
Concen: 55.667 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 91 Resp: 82678

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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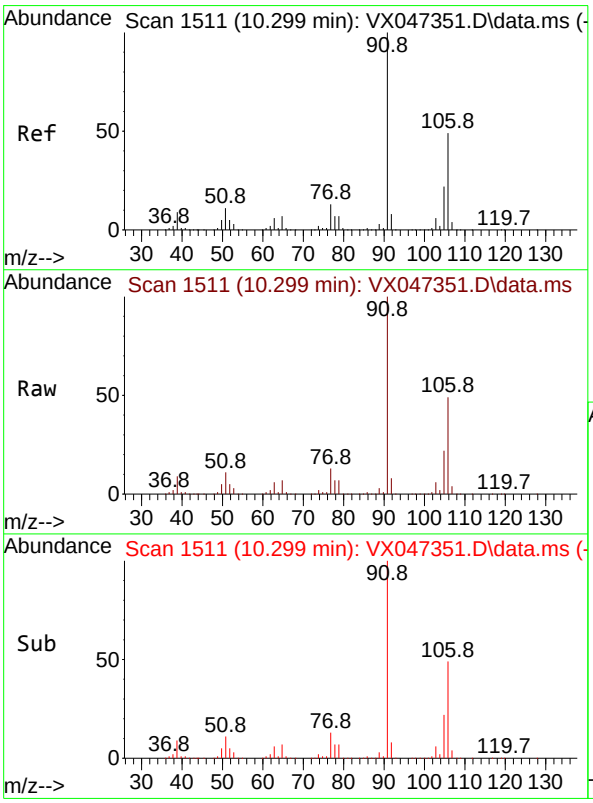
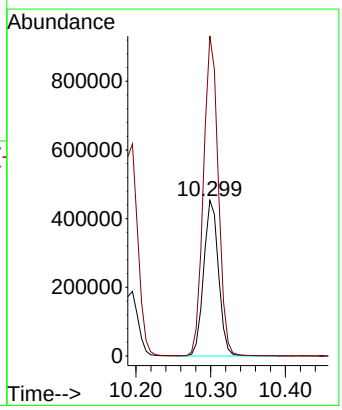
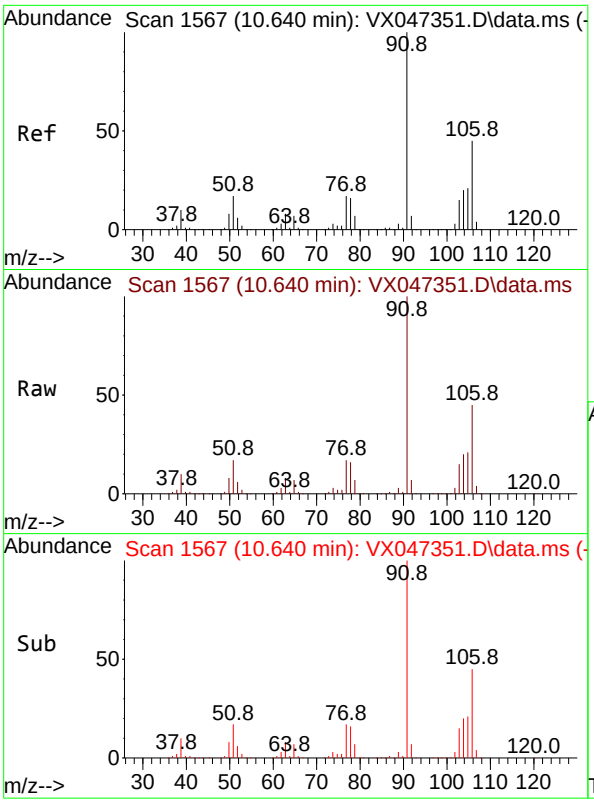


#68
m/p-Xylenes
Concen: 112.475 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:106 Resp: 622895

Ion	Ratio	Lower	Upper
106	100		
91	205.9	164.7	247.1

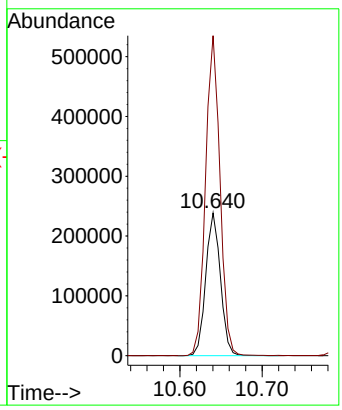




#69
o-Xylene
Concen: 55.407 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:106 Resp: 29529

Ion	Ratio	Lower	Upper
106	100		
91	221.2	110.6	331.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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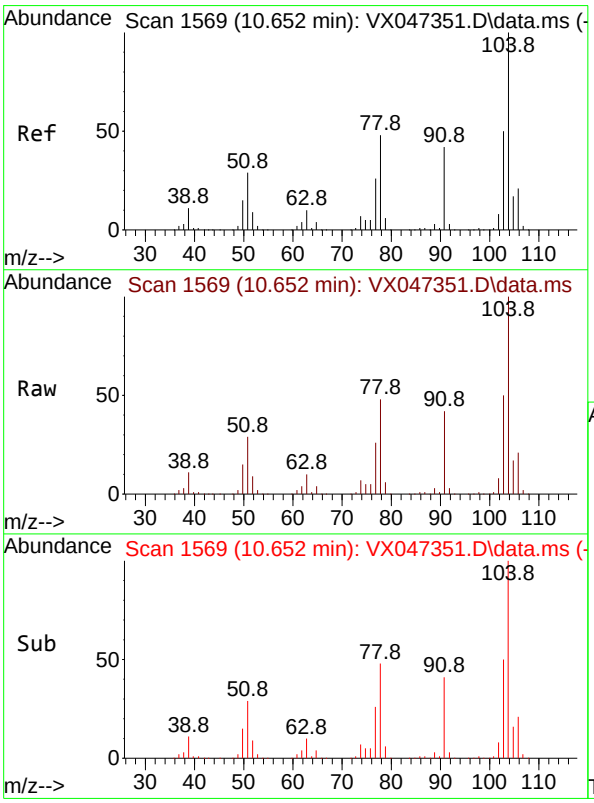
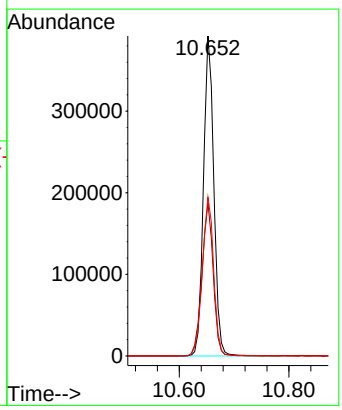
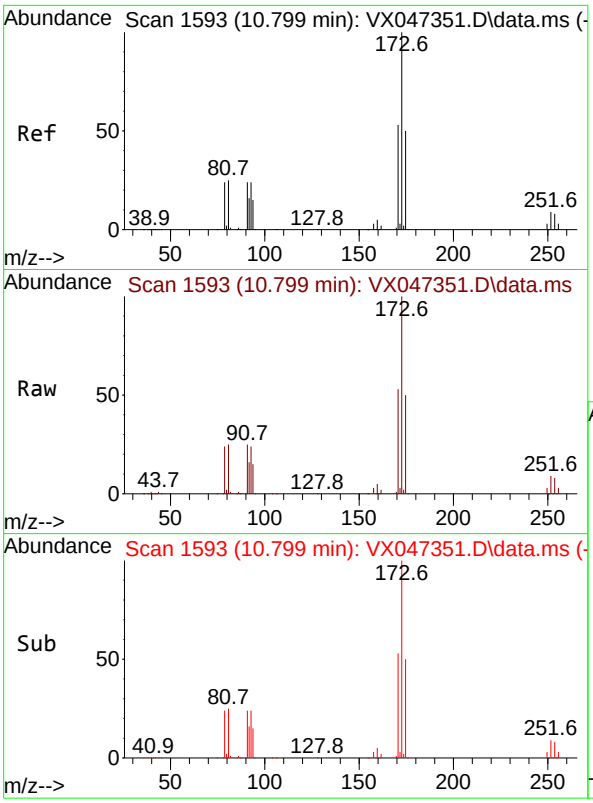


#70
Styrene
Concen: 56.883 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:104 Resp: 512239

Ion	Ratio	Lower	Upper
104	100		
78	52.3	41.8	62.8
103	54.5	43.6	65.4

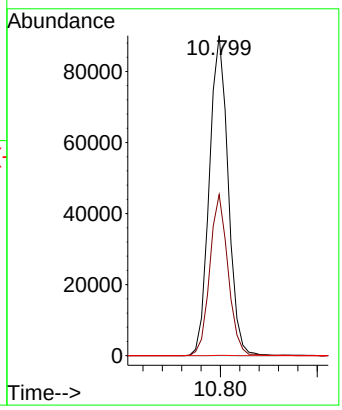




#71
Bromoform
Concen: 55.530 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:173 Resp: 12169

Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.4	73.4
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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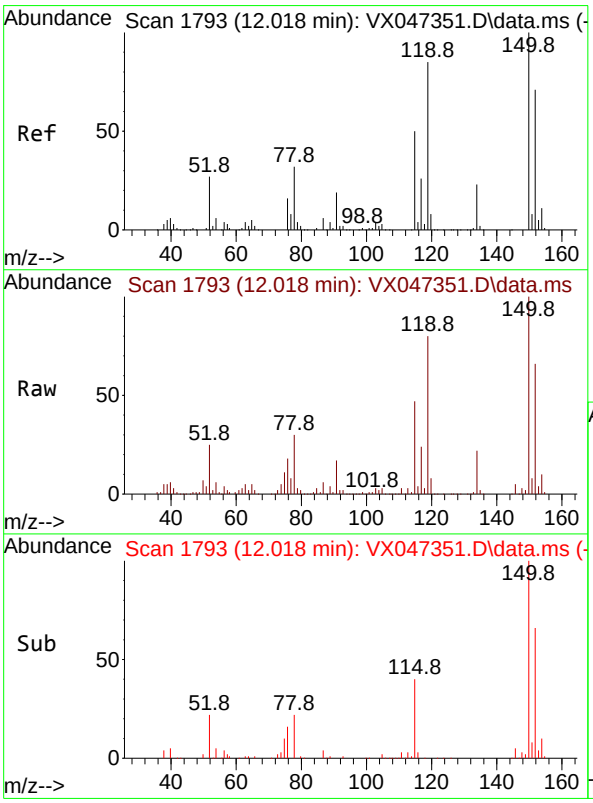
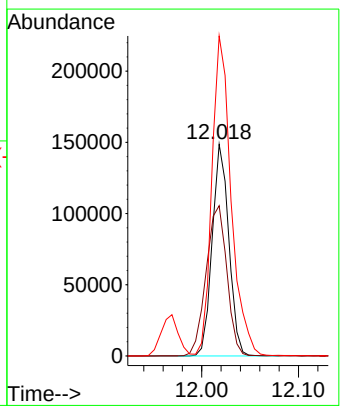
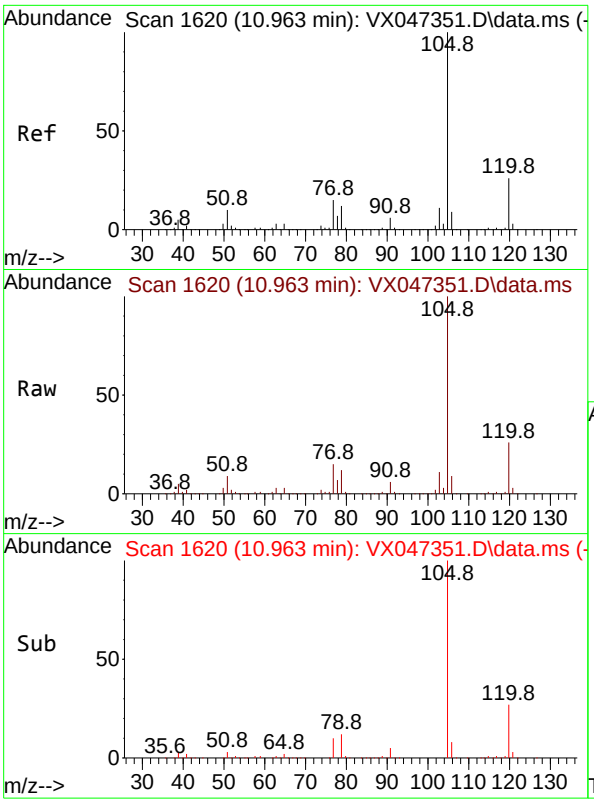


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:152 Resp: 177366

Ion	Ratio	Lower	Upper
152	100		
115	89.2	44.6	133.8
150	174.9	0.0	349.8

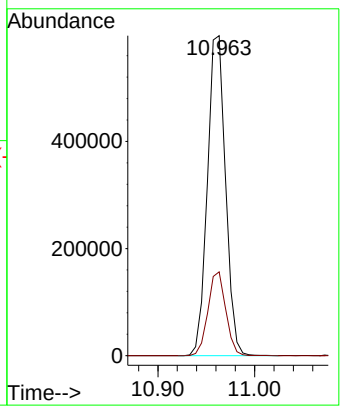




#73
Isopropylbenzene
Concen: 56.210 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:105 Resp: 78018

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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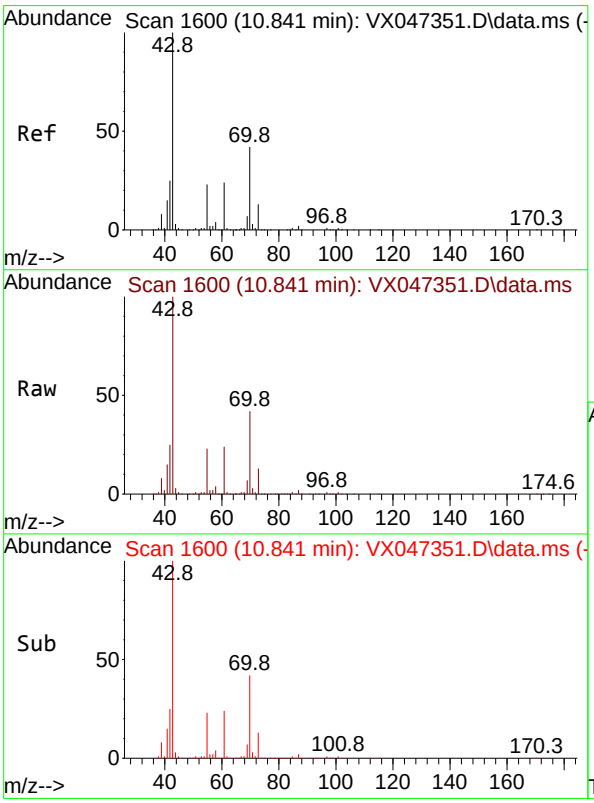
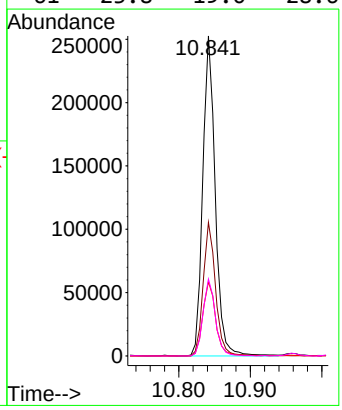
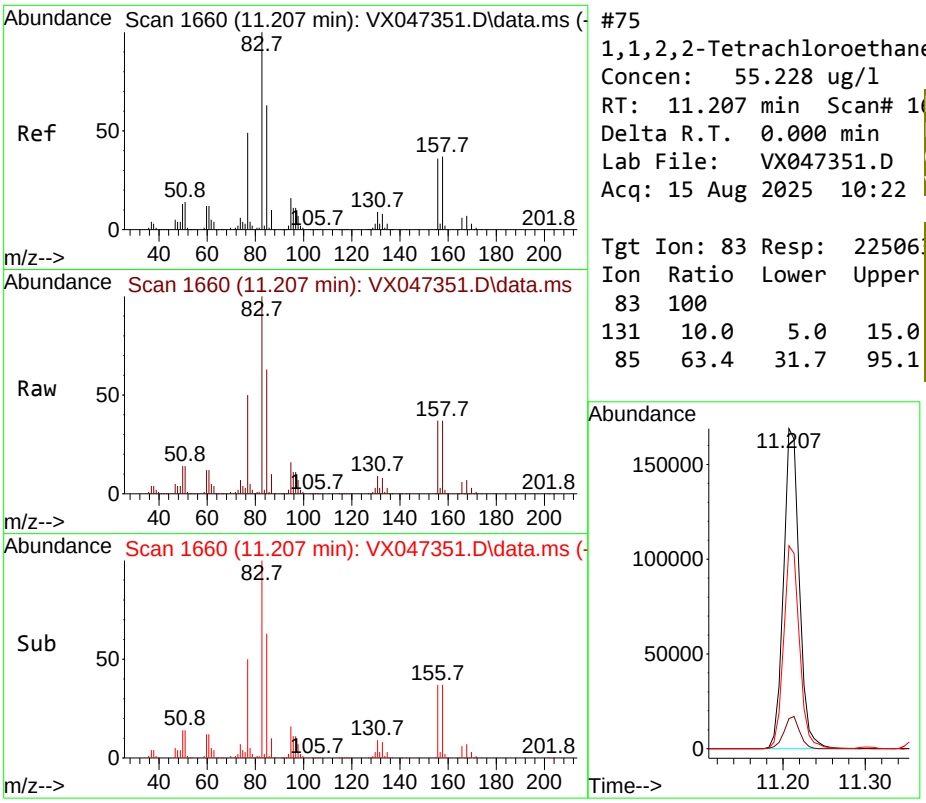


#74
N-amyl acetate
Concen: 58.194 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 43 Resp: 306720

Ion	Ratio	Lower	Upper
43	100		
70	41.4	33.1	49.7
55	23.8	19.0	28.6
61	23.8	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 55.228 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 83 Resp: 22506

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	15.0
85	63.4	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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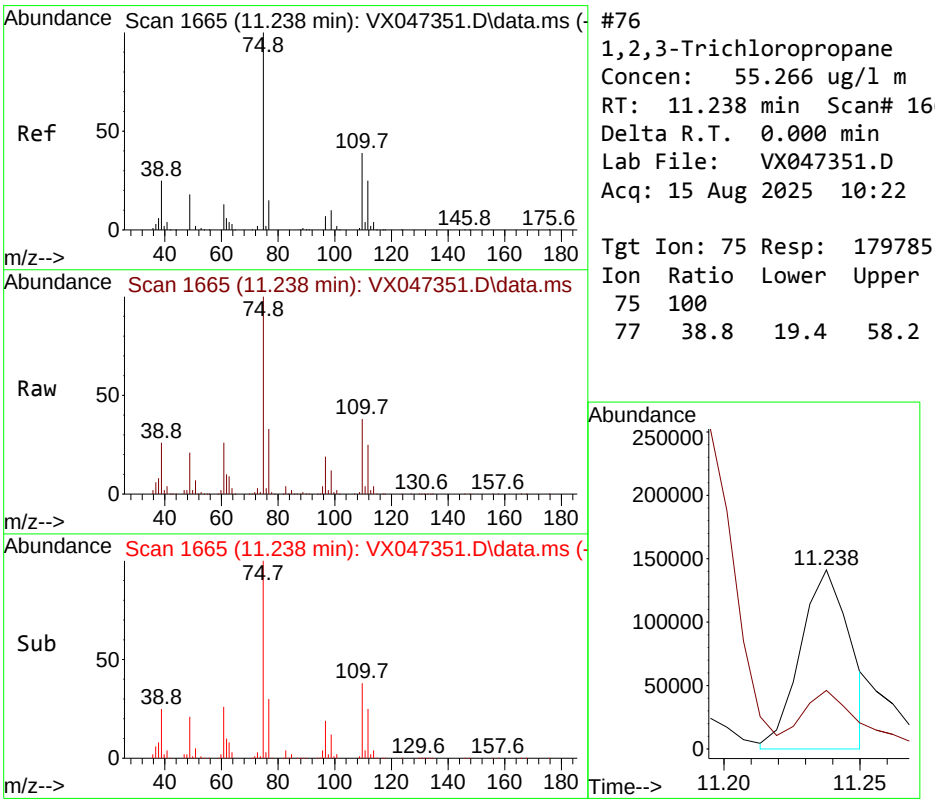
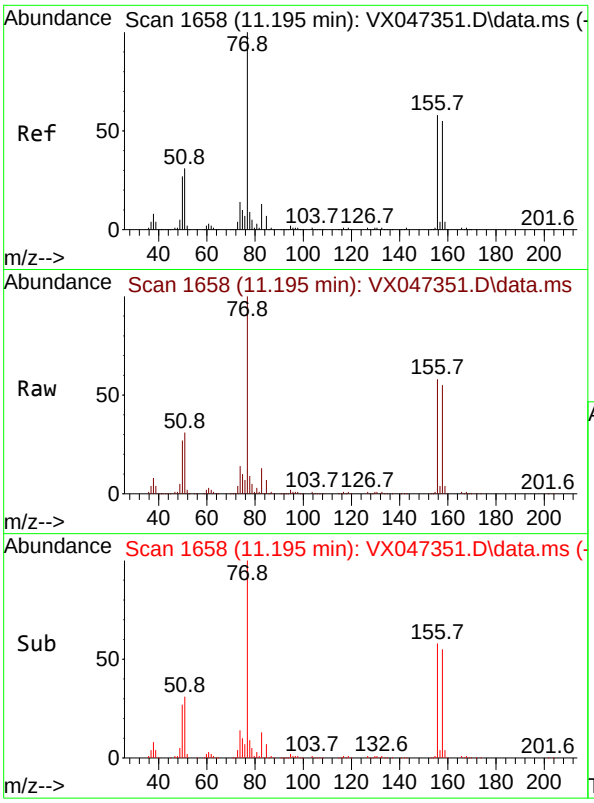


#76
1,2,3-Trichloropropane
Concen: 55.266 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 75 Resp: 179785

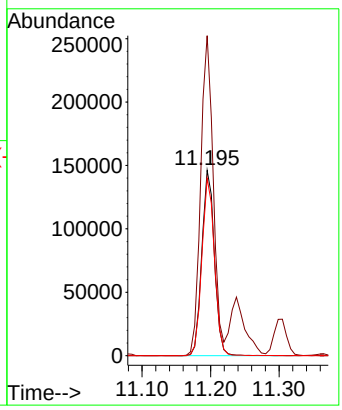
Ion	Ratio	Lower	Upper
75	100		
77	38.8	19.4	58.2



#77
Bromobenzene
Concen: 55.124 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:156 Resp: 18683

Ion	Ratio	Lower	Upper
156	100		
77	172.6	86.3	258.9
158	96.1	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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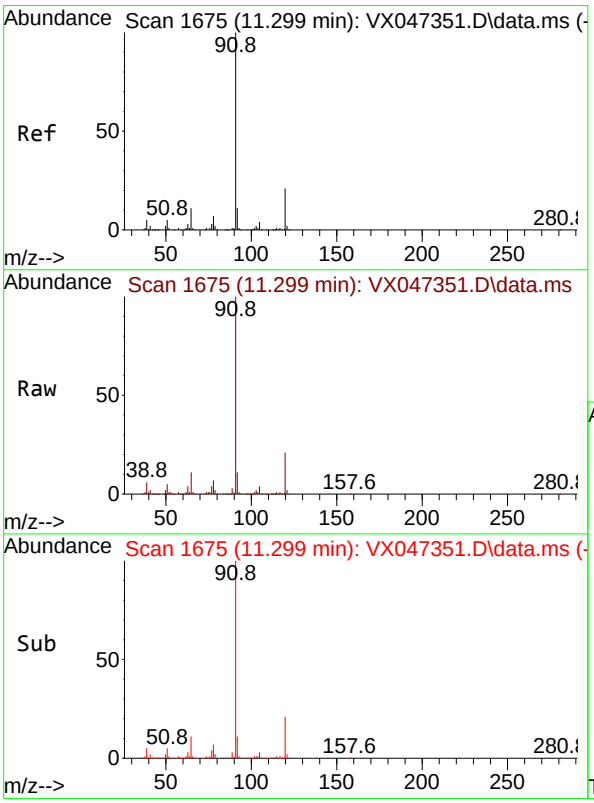
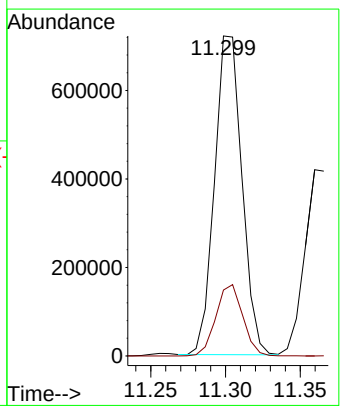
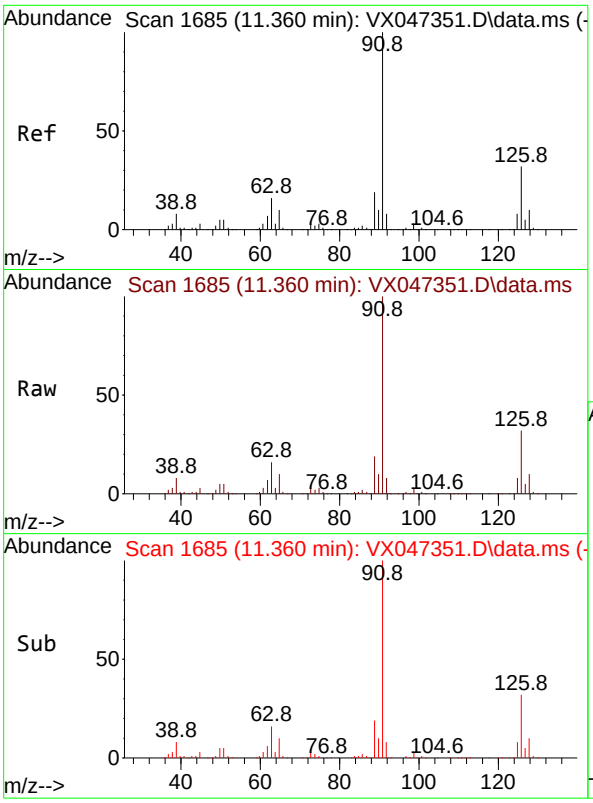


#78
n-propylbenzene
Concen: 55.413 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 91 Resp: 918573

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0





#79
2-Chlorotoluene
Concen: 54.793 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 91 Resp: 54907

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.7	50.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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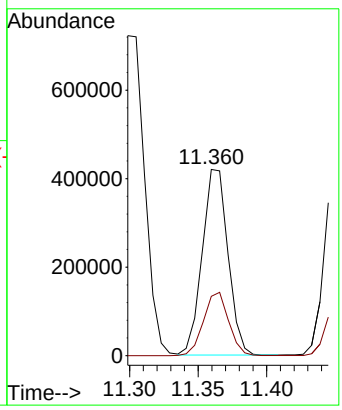
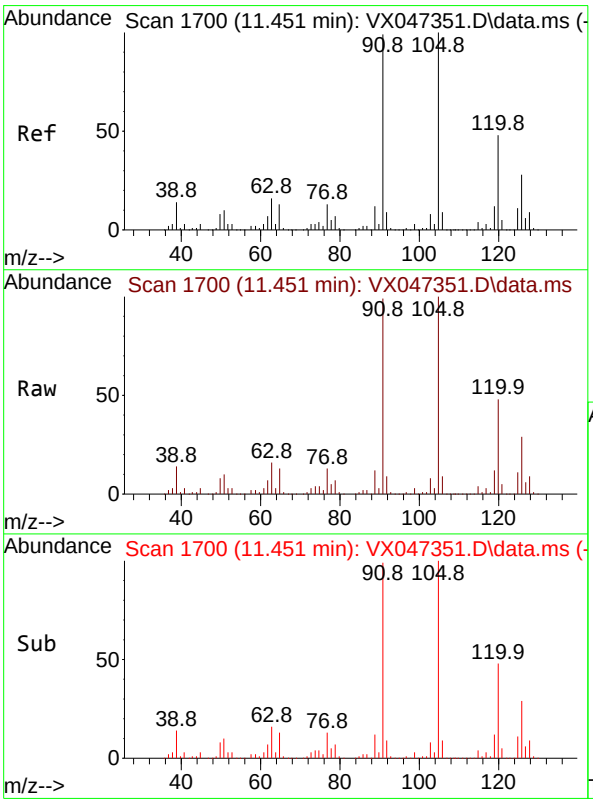
Supervised By :Mahesh Dadoda 08/19/2025

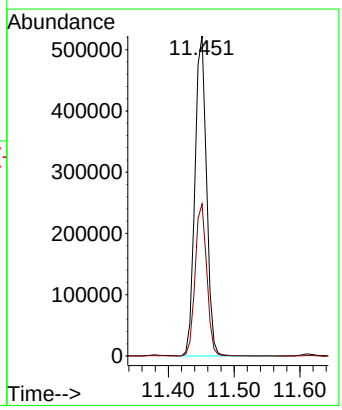


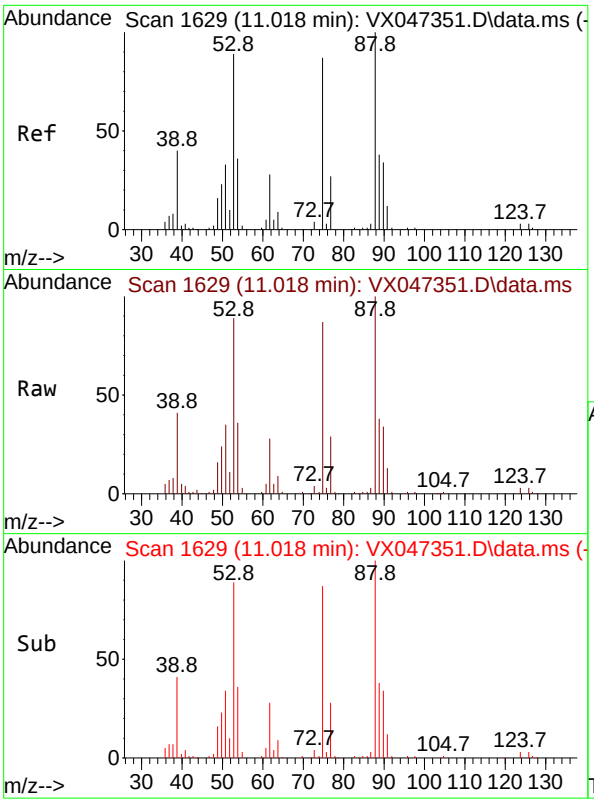


#80
1,3,5-Trimethylbenzene
Concen: 55.720 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:105 Resp: 636323

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.9	71.7

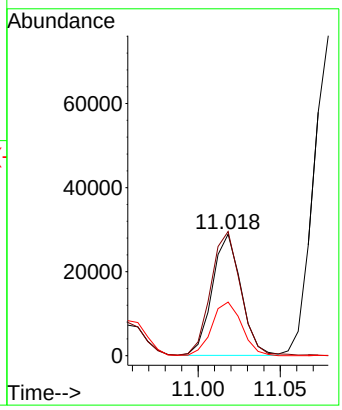




#81
trans-1,4-Dichloro-2-butene
Concen: 47.608 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 75 Resp: 3529

Ion	Ratio	Lower	Upper
75	100		
53	106.5	85.2	127.8
89	45.9	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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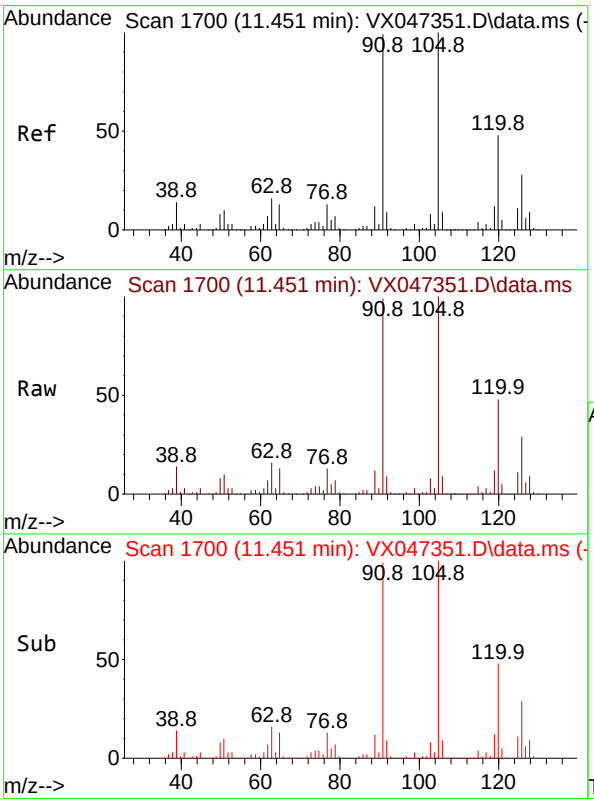
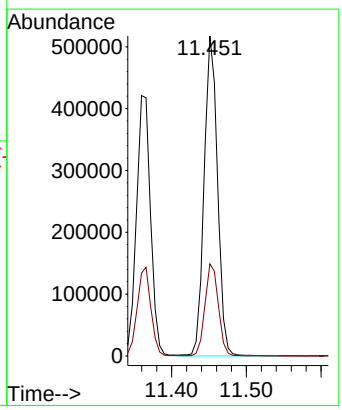
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

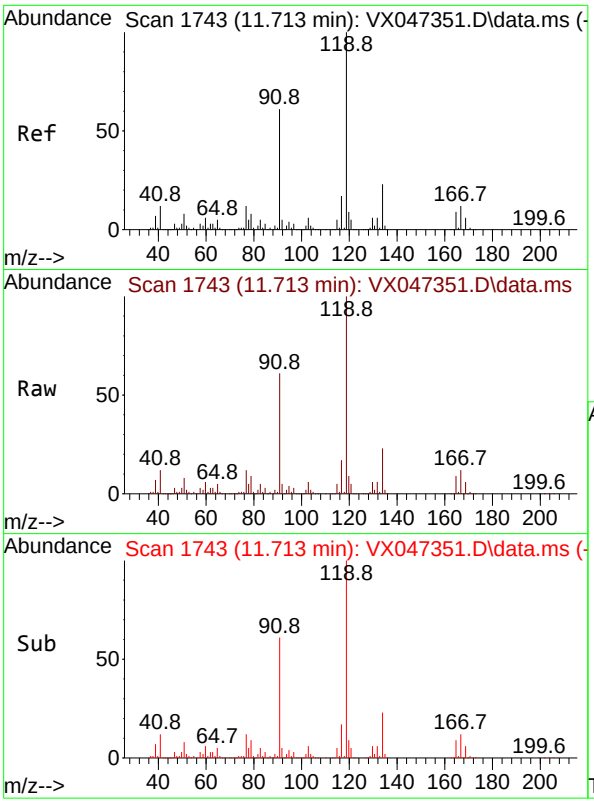


#82
4-Chlorotoluene
Concen: 54.505 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 91 Resp: 643830

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.4	43.0

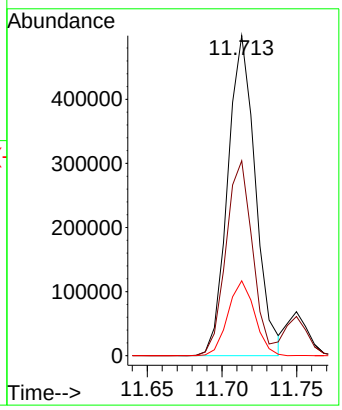




#83
tert-Butylbenzene
Concen: 56.344 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:119 Resp: 64195

Ion	Ratio	Lower	Upper
119	100		
91	58.3	29.1	87.4
134	22.6	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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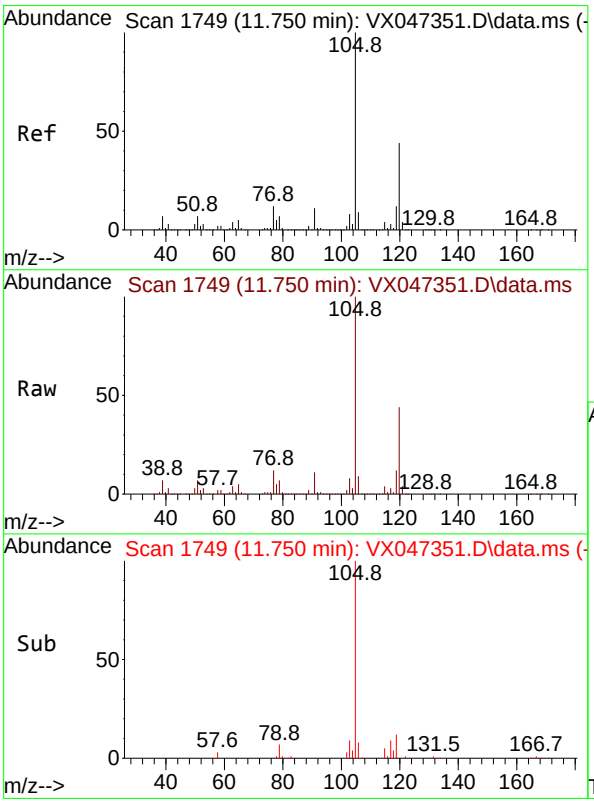
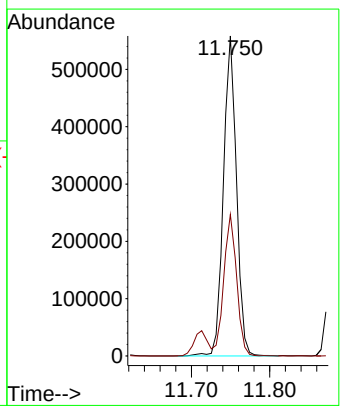
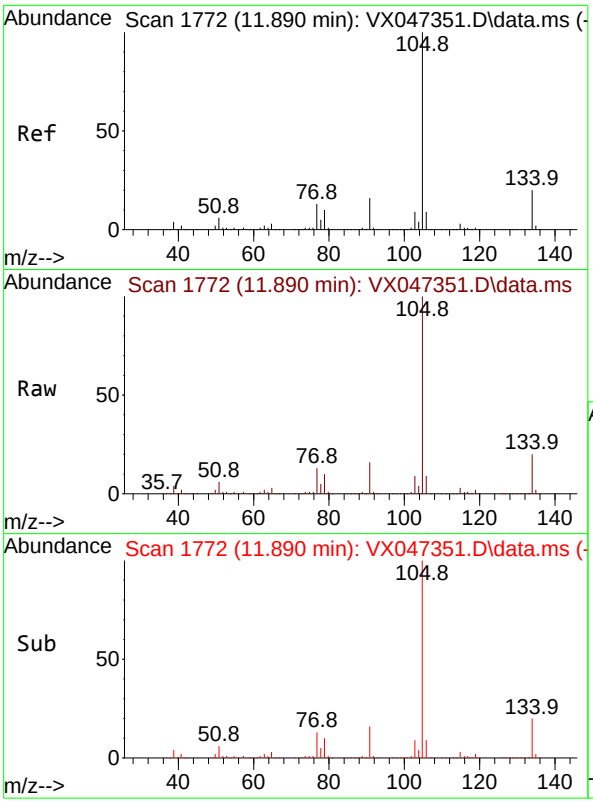


#84
1,2,4-Trimethylbenzene
Concen: 56.614 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:105 Resp: 646548

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.9	65.7

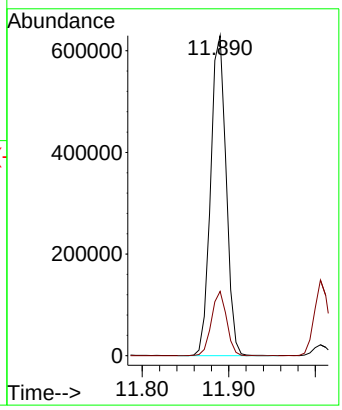




#85
sec-Butylbenzene
Concen: 55.470 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:105 Resp: 78334

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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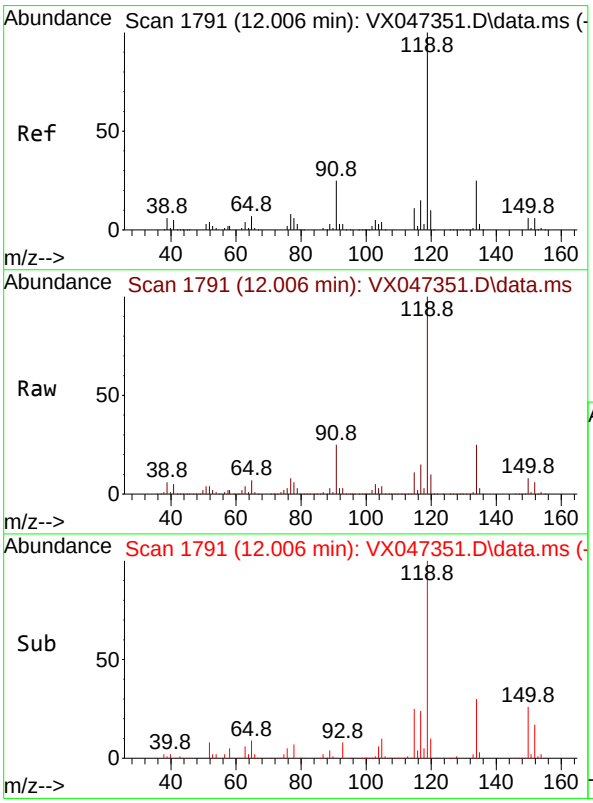
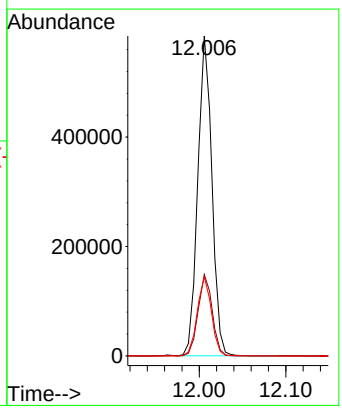
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

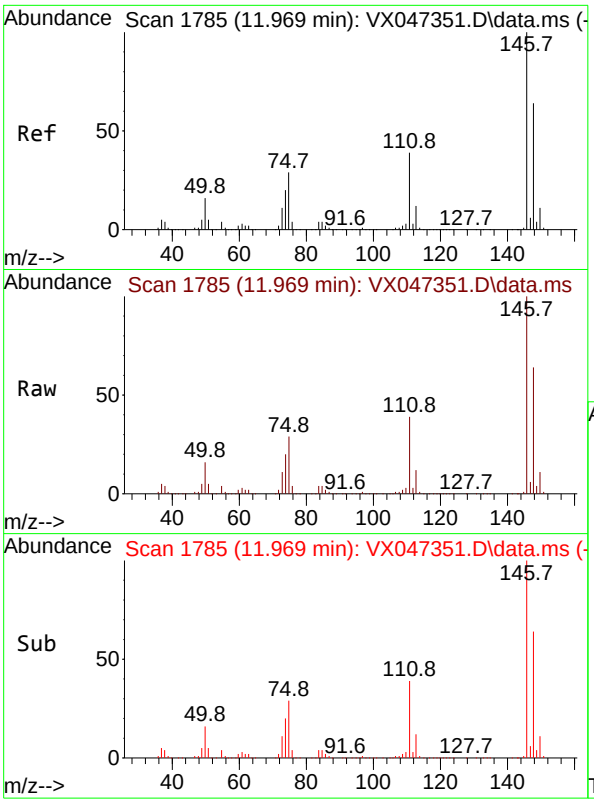


#86
p-Isopropyltoluene
Concen: 55.303 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:119 Resp: 660872

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.4
91	24.9	12.4	37.4

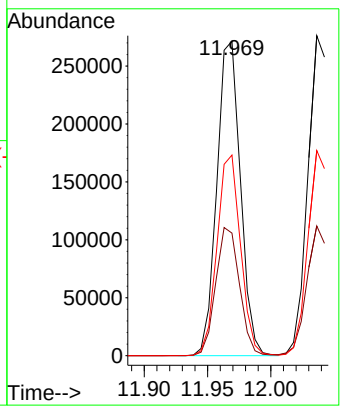




#87
1,3-Dichlorobenzene
Concen: 54.320 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:146 Resp: 35171

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.6	61.8
148	63.7	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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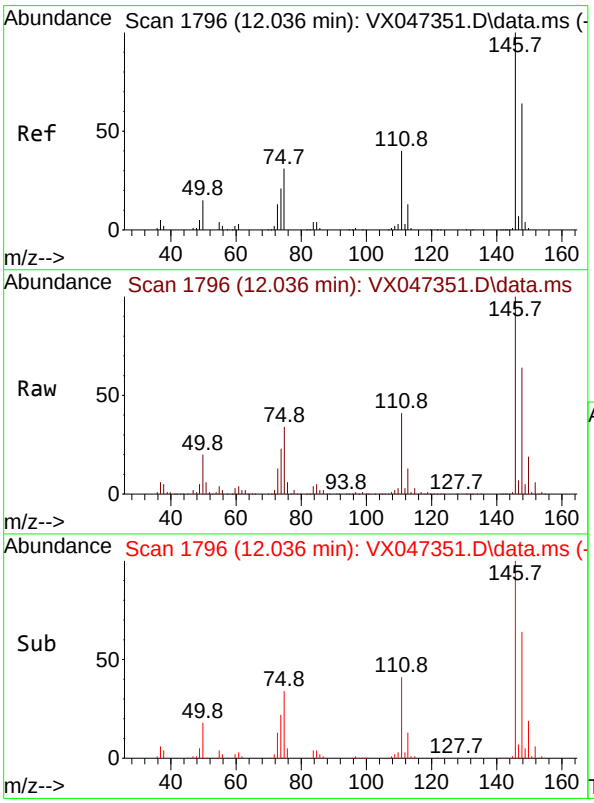
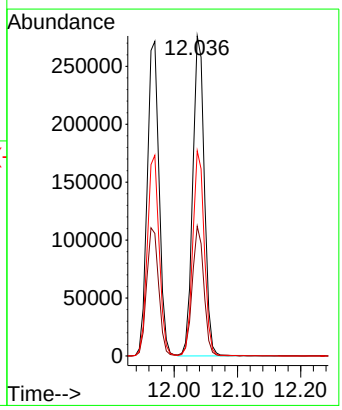
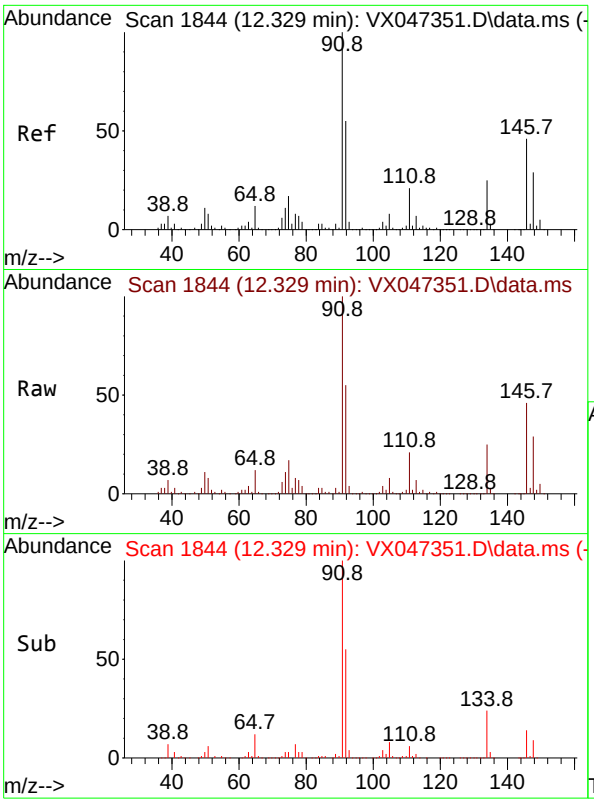


#88
1,4-Dichlorobenzene
Concen: 52.886 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:146 Resp: 352196

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.4	61.2
148	63.4	31.7	95.1

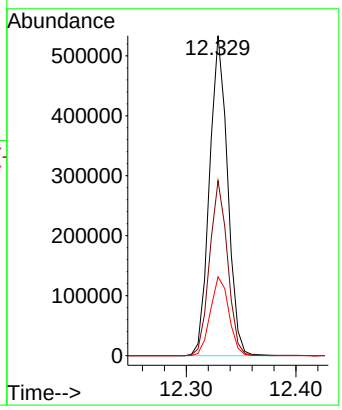




#89
n-Butylbenzene
Concen: 54.957 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 91 Resp: 61084

Ion	Ratio	Lower	Upper
91	100		
92	54.3	27.2	81.5
134	25.2	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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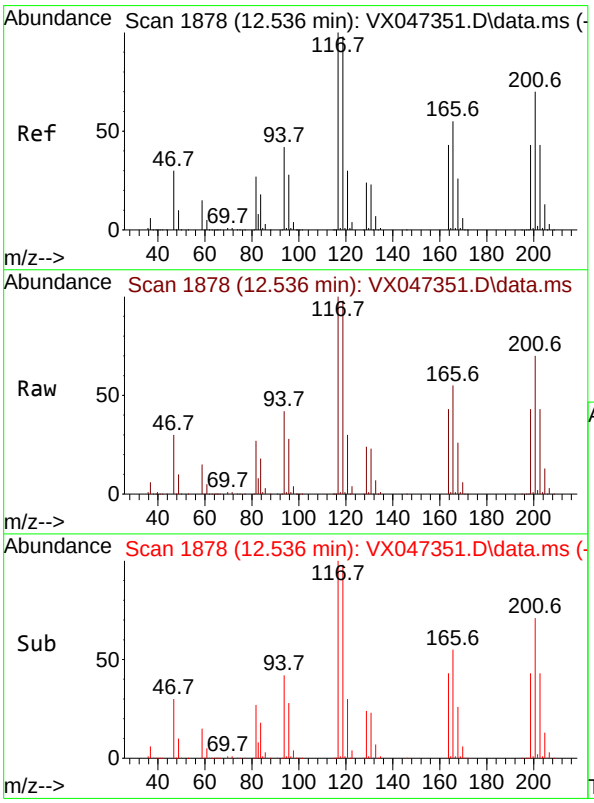
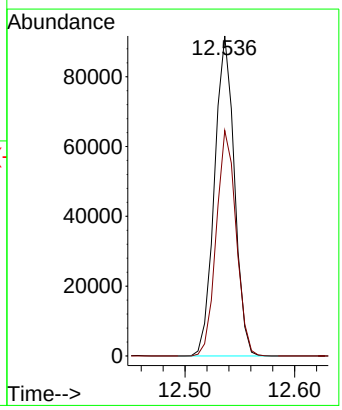
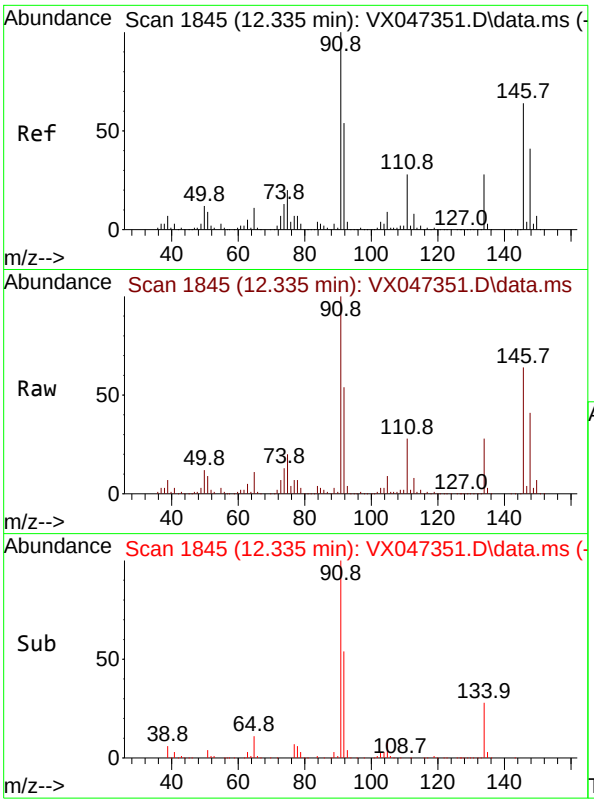


#90
Hexachloroethane
Concen: 55.228 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:117 Resp: 115780

Ion	Ratio	Lower	Upper
117	100		
201	70.2	35.1	105.3

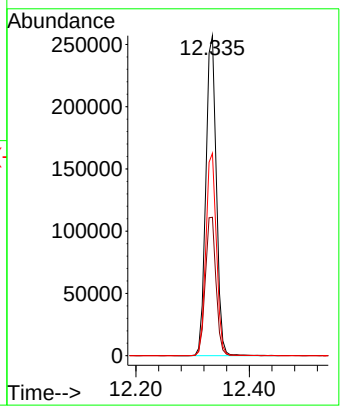




#91
1,2-Dichlorobenzene
Concen: 53.742 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:146 Resp: 33028

Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.1	66.1
148	63.7	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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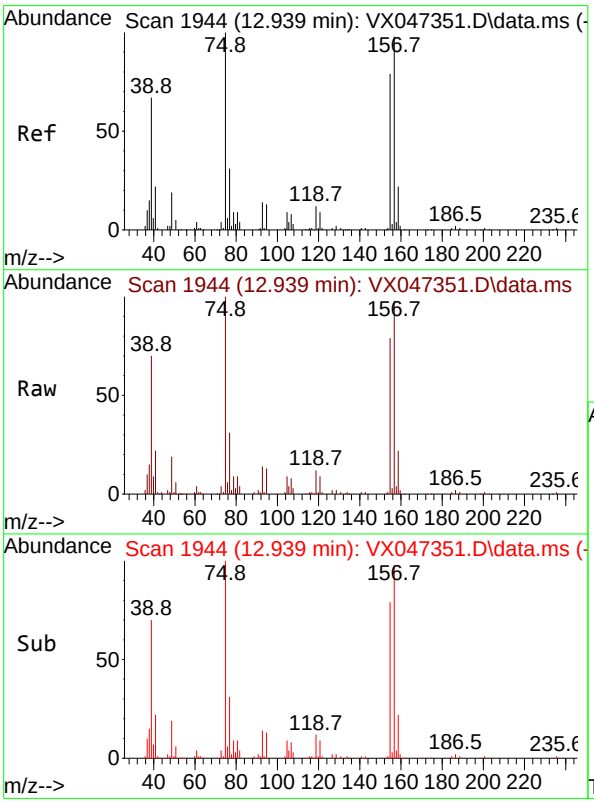
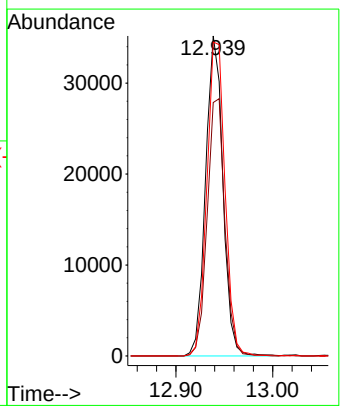
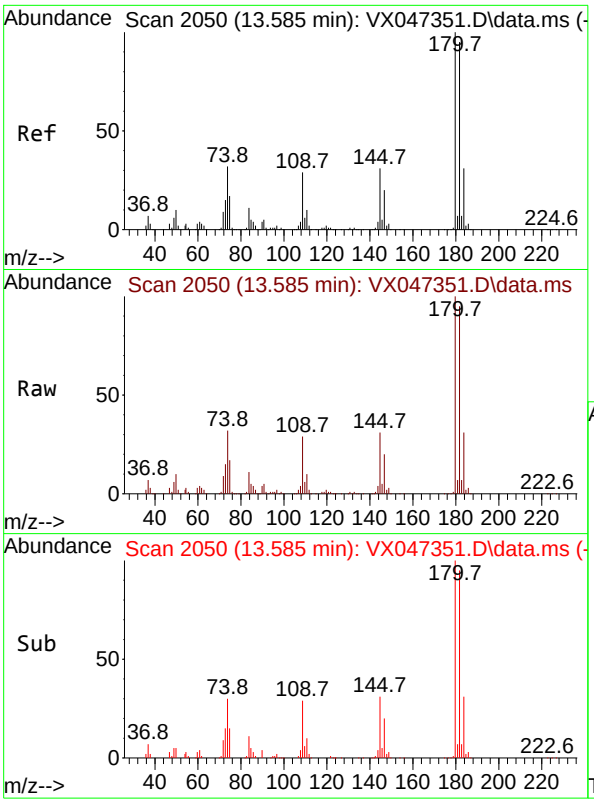


#92
1,2-Dibromo-3-Chloropropane
Concen: 55.654 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 75 Resp: 43861

Ion	Ratio	Lower	Upper
75	100		
155	82.5	41.3	123.7
157	103.0	51.5	154.5

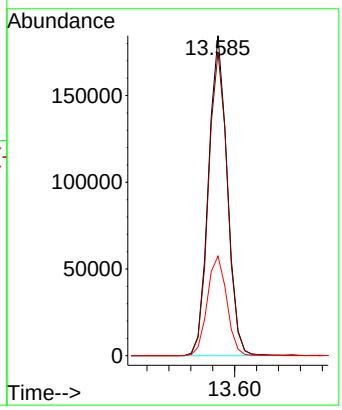




#93
1,2,4-Trichlorobenzene
Concen: 53.111 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:180 Resp: 21882

Ion	Ratio	Lower	Upper
180	100		
182	96.3	48.1	144.4
145	32.3	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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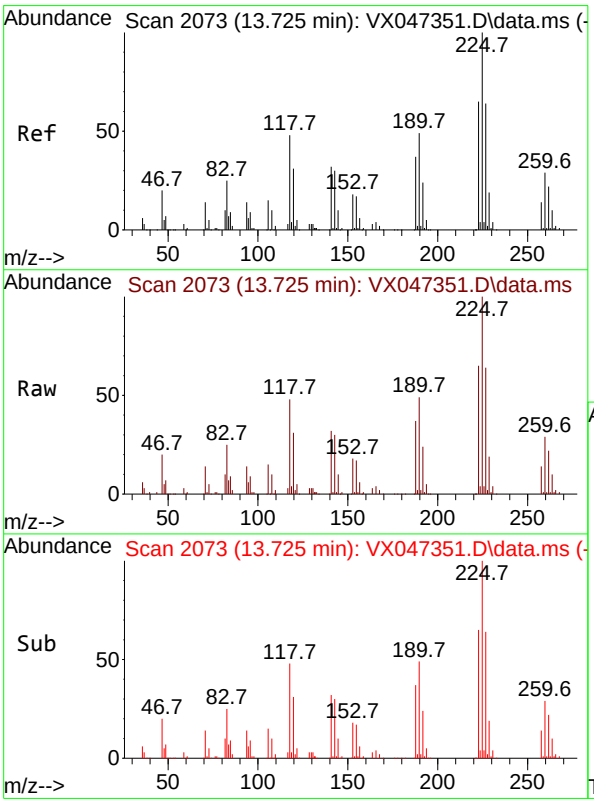
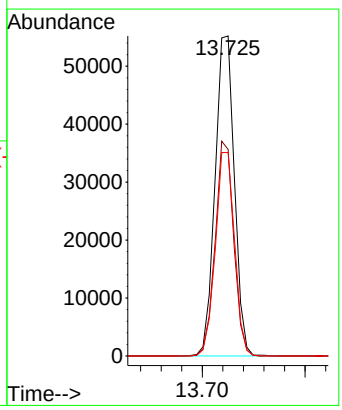
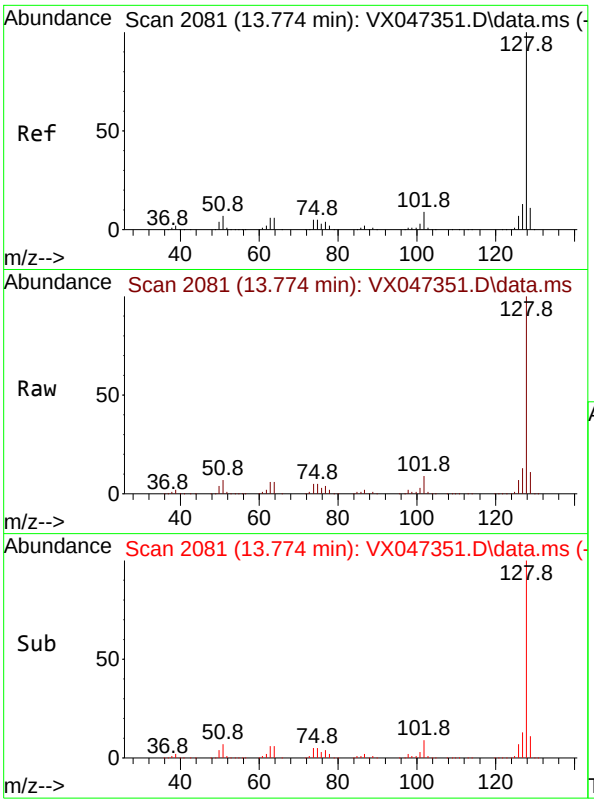


#94
Hexachlorobutadiene
Concen: 48.921 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:225 Resp: 71744

Ion	Ratio	Lower	Upper
225	100		
223	64.4	32.2	96.6
227	63.3	31.6	95.0

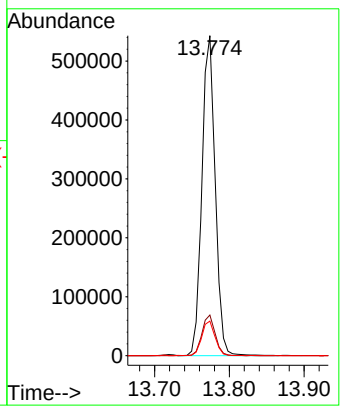




#95
Naphthalene
Concen: 56.930 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:128 Resp: 67030

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.9	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
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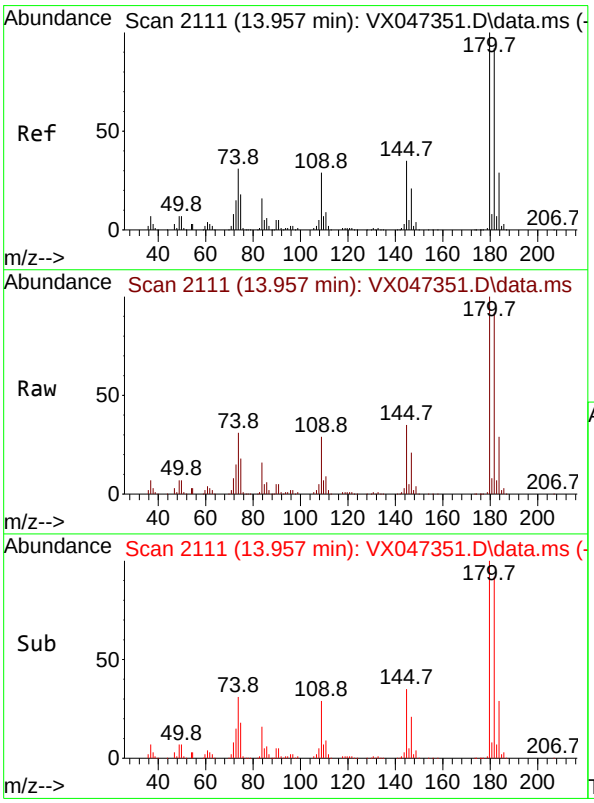
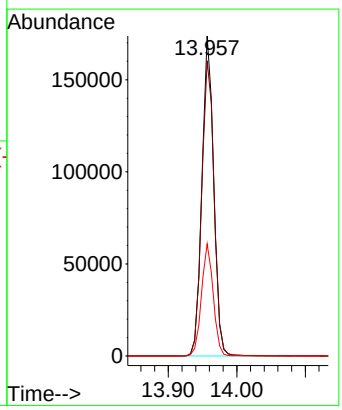


#96
1,2,3-Trichlorobenzene
Concen: 53.605 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:180 Resp: 208179

Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.0	144.2
145	34.8	17.4	52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047352.D
Acq On : 15 Aug 2025 10:43
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 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:54:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	230991	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	391443	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	345492	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	163776	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	345087	106.746	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 213.500%#			
35) Dibromofluoromethane	5.397	113	276832	108.967	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 217.940%#			
50) Toluene-d8	8.653	98	975414	107.419	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 214.840%#			
62) 4-Bromofluorobenzene	11.079	95	353668	105.546	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 211.100%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	309782	105.204	ug/l	99
3) Chloromethane	1.313	50	261885	98.864	ug/l	96
4) Vinyl Chloride	1.392	62	336909	101.331	ug/l	97
5) Bromomethane	1.624	94	142644	106.217	ug/l	96
6) Chloroethane	1.703	64	189413	93.112	ug/l	98
7) Trichlorofluoromethane	1.904	101	489572	99.548	ug/l	99
8) Diethyl Ether	2.148	74	171145	98.832	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.349	101	288420	101.101	ug/l	99
10) Methyl Iodide	2.471	142	545687	111.619	ug/l	98
11) Tert butyl alcohol	2.971	59	143673	510.865	ug/l	99
12) 1,1-Dichloroethene	2.337	96	293450	100.899	ug/l	99
13) Acrolein	2.252	56	294322	495.763	ug/l	100
14) Allyl chloride	2.678	41	512225	101.402	ug/l	99
15) Acrylonitrile	3.081	53	691797	509.058	ug/l	100
16) Acetone	2.392	43	554774	456.549	ug/l	98
17) Carbon Disulfide	2.532	76	840388	95.757	ug/l	100
18) Methyl Acetate	2.715	43	318444	101.128	ug/l	100
19) Methyl tert-butyl Ether	3.129	73	906301	102.433	ug/l	98
20) Methylene Chloride	2.806	84	309183	96.088	ug/l	99
21) trans-1,2-Dichloroethene	3.105	96	302669	98.051	ug/l	99
22) Diisopropyl ether	3.776	45	1007141	100.865	ug/l	99
23) Vinyl Acetate	3.733	43	4206762	514.008	ug/l	99
24) 1,1-Dichloroethane	3.623	63	558936	99.034	ug/l	99
25) 2-Butanone	4.568	43	789816	496.288	ug/l	98
26) 2,2-Dichloropropane	4.489	77	434139	101.916	ug/l	100
27) cis-1,2-Dichloroethene	4.507	96	355238	98.806	ug/l	99
28) Bromochloromethane	4.910	49	258648	110.131	ug/l	99
29) Tetrahydrofuran	5.019	42	505709	491.640	ug/l	98
30) Chloroform	5.105	83	560984	97.394	ug/l	100
31) Cyclohexane	5.489	56	499975	96.100	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	499294	100.709	ug/l	99
36) 1,1-Dichloropropene	5.702	75	398144	99.278	ug/l	100
37) Ethyl Acetate	4.727	43	413279	99.265	ug/l	99
38) Carbon Tetrachloride	5.690	117	430061	98.132	ug/l	99
39) Methylcyclohexane	7.385	83	500907	100.134	ug/l	97
40) Benzene	6.050	78	1186760	98.866	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047352.D
Acq On : 15 Aug 2025 10:43
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 18 02:54:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.940	41	191678	109.177 ug/l	95
42) 1,2-Dichloroethane	6.098	62	416430	97.940 ug/l	99
43) Isopropyl Acetate	6.348	43	624423	104.400 ug/l	100
44) Trichloroethene	7.135	130	304976	99.224 ug/l	98
45) 1,2-Dichloropropane	7.434	63	298616	99.300 ug/l	97
46) Dibromomethane	7.586	93	214069	98.052 ug/l	99
47) Bromodichloromethane	7.824	83	452578	99.995 ug/l	100
48) Methyl methacrylate	7.696	41	322487	103.875 ug/l	99
49) 1,4-Dioxane	7.684	88	61142	2073.830 ug/l	97
51) 4-Methyl-2-Pentanone	8.574	43	1766006	513.097 ug/l	99
52) Toluene	8.720	92	733119	98.837 ug/l	100
53) t-1,3-Dichloropropene	8.982	75	423279	107.156 ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	463640	103.698 ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	275607	97.863 ug/l	98
56) Ethyl methacrylate	9.116	69	440765	106.154 ug/l	100
57) 1,3-Dichloropropane	9.311	76	469804	97.899 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	1000312	496.016 ug/l	99
59) 2-Hexanone	9.433	43	1215128	510.384 ug/l	100
60) Dibromochloromethane	9.519	129	333420	99.621 ug/l	100
61) 1,2-Dibromoethane	9.610	107	285821	98.420 ug/l	98
64) Tetrachloroethene	9.275	164	248666	99.506 ug/l	98
65) Chlorobenzene	10.079	112	803672	97.887 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	278595	100.380 ug/l	99
67) Ethyl Benzene	10.195	91	1424862	100.832 ug/l	99
68) m/p-Xylenes	10.299	106	1056553	200.518 ug/l	99
69) o-Xylene	10.640	106	508020	100.188 ug/l	99
70) Styrene	10.652	104	878271	102.509 ug/l	100
71) Bromoform	10.799	173	211374	101.376 ug/l	99
73) Isopropylbenzene	10.963	105	1326045	103.466 ug/l	99
74) N-amyl acetate	10.841	43	543008	111.573 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	374215	99.448 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	301098m	100.238 ug/l	
77) Bromobenzene	11.195	156	320460	102.397 ug/l	99
78) n-propylbenzene	11.305	91	1577819	103.081 ug/l	100
79) 2-Chlorotoluene	11.360	91	926261	100.105 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	1084580	102.852 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	70384	93.696 ug/l	98
82) 4-Chlorotoluene	11.451	91	1080450	99.058 ug/l	99
83) tert-Butylbenzene	11.713	119	1092054	103.803 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	1086843	103.064 ug/l	99
85) sec-Butylbenzene	11.890	105	1343222	103.010 ug/l	99
86) p-Isopropyltoluene	12.006	119	1118938	101.405 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	593233	99.223 ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	585597	95.231 ug/l	99
89) n-Butylbenzene	12.329	91	1050897	102.394 ug/l	100
90) Hexachloroethane	12.536	117	202423	104.570 ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	558580	98.430 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	77939	107.101 ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	389962	102.504 ug/l	98
94) Hexachlorobutadiene	13.719	225	123286	91.042 ug/l	98
95) Naphthalene	13.774	128	1191910	109.632 ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	370778	103.395 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047352.D
Acq On : 15 Aug 2025 10:43
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 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:54:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 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\VX081525\
Data File : VX047352.D
Acq On : 15 Aug 2025 10:43
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
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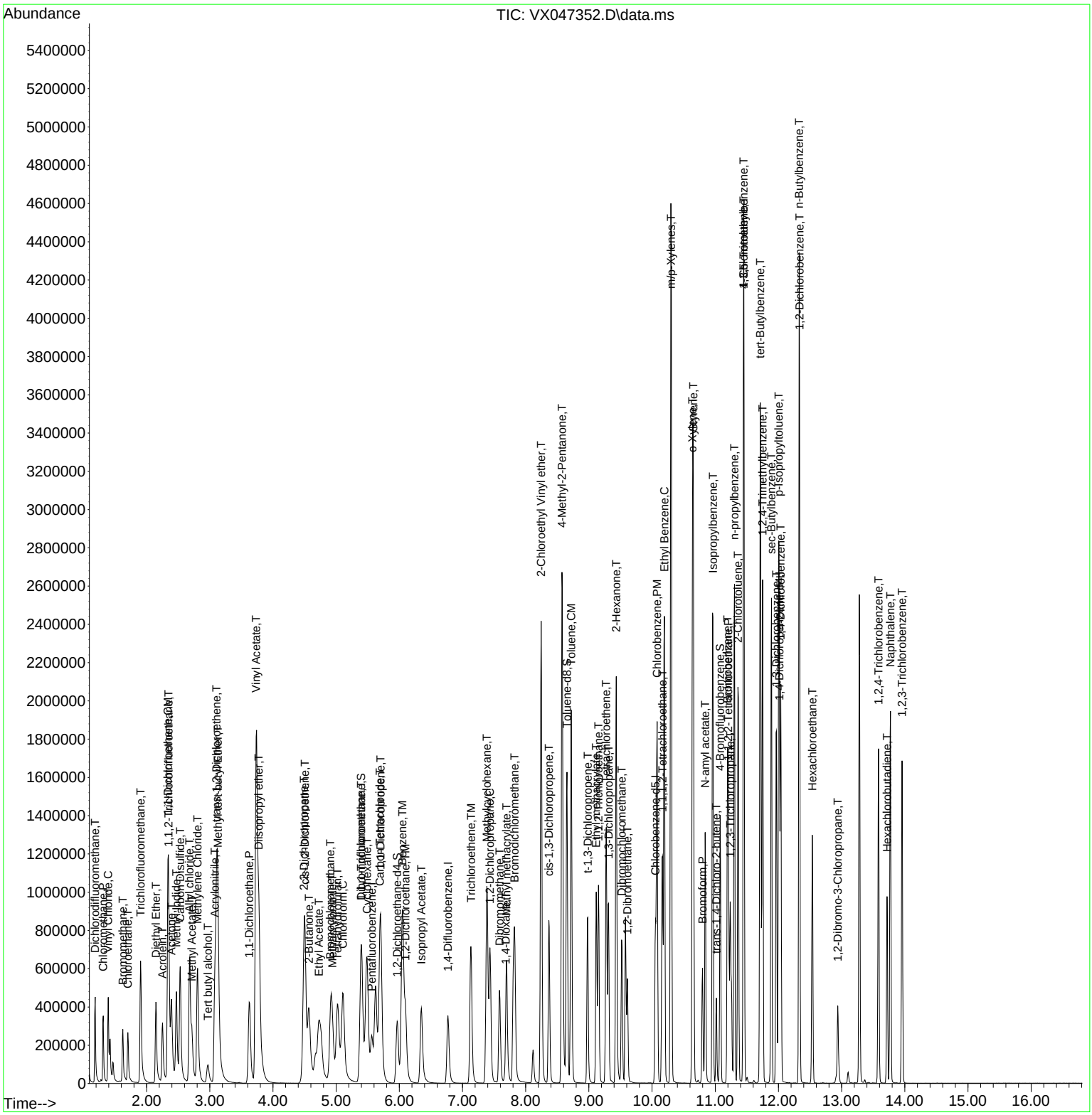
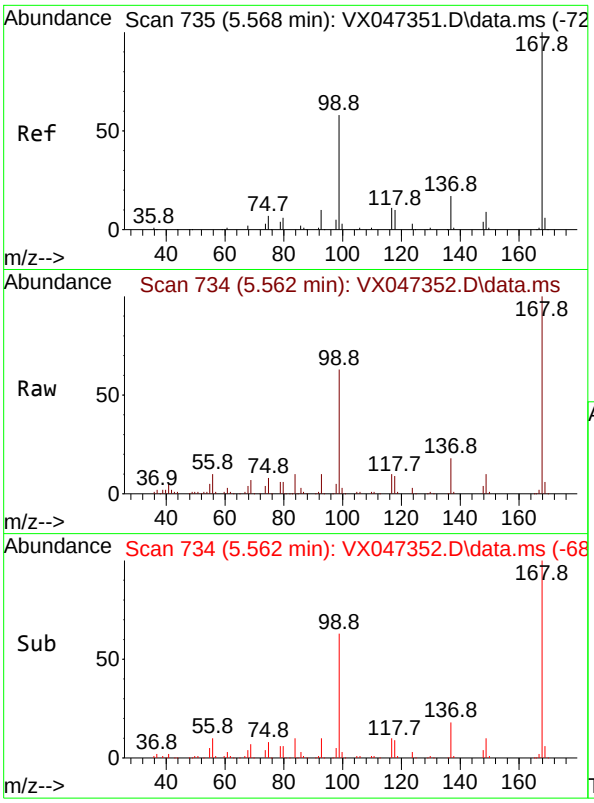
Quant Time: Aug 18 02:54:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

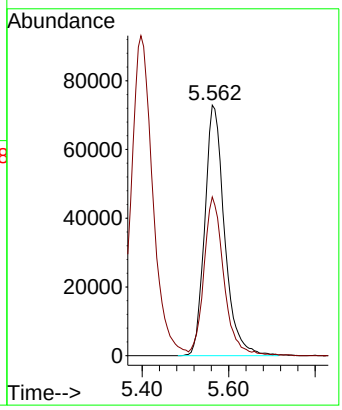




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:168 Resp: 23099

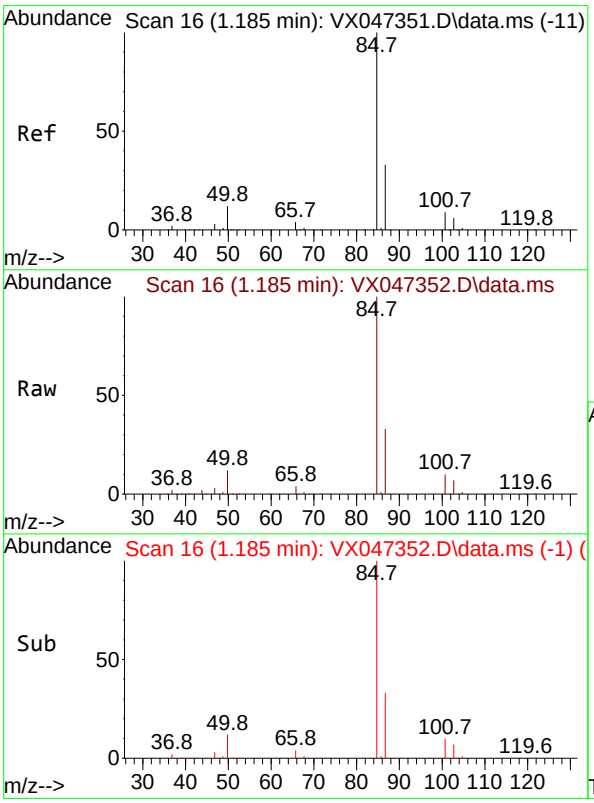
Ion	Ratio	Lower	Upper
168	100		
99	63.0	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

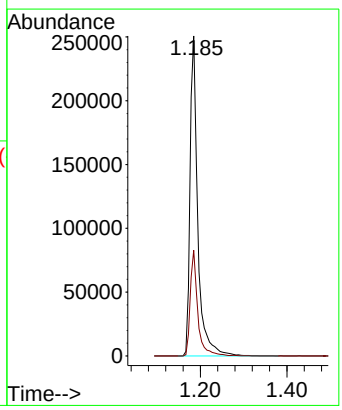
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

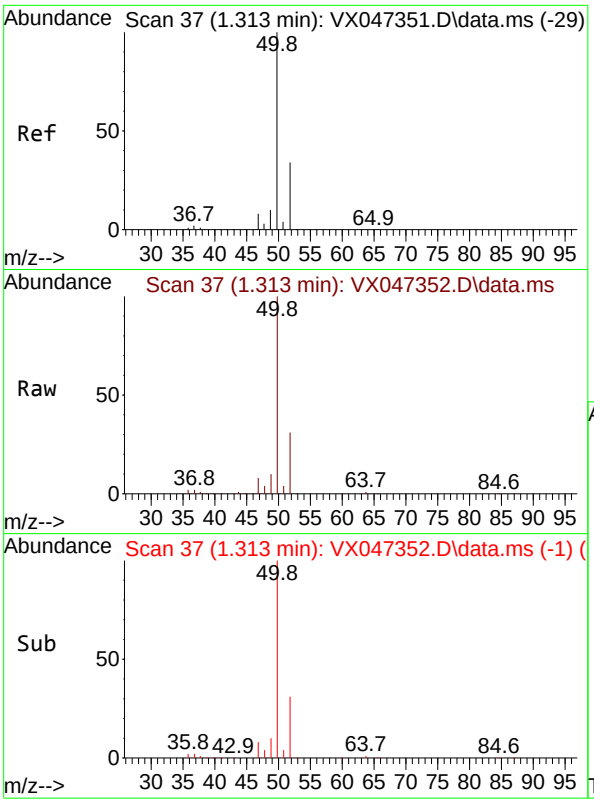


#2
Dichlorodifluoromethane
Concen: 105.204 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 85 Resp: 309782

Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.4	49.1

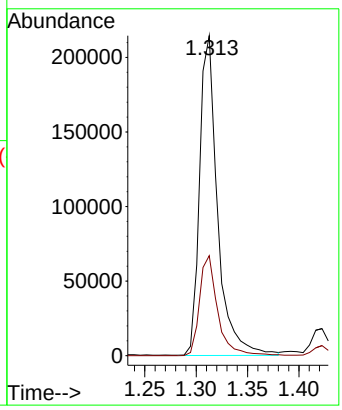




#3
Chloromethane
Concen: 98.864 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 50 Resp: 26188

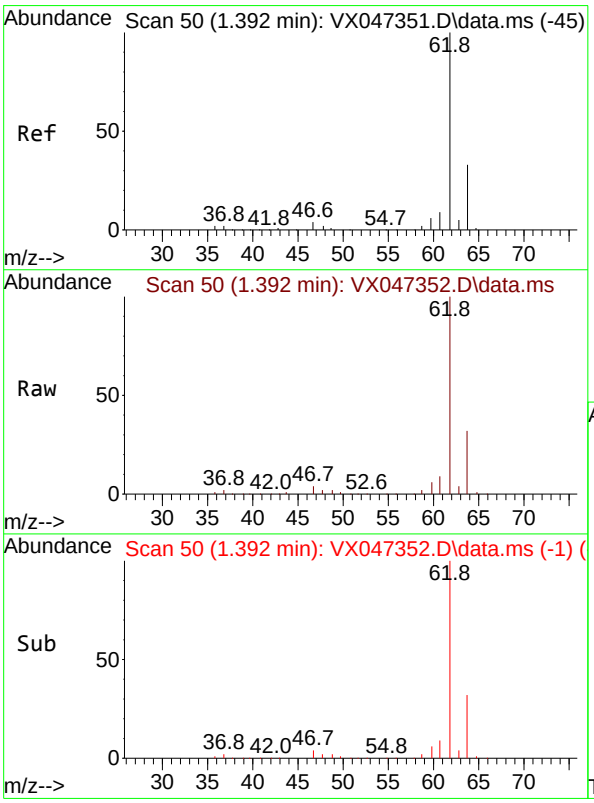
Ion	Ratio	Lower	Upper
50	100		
52	31.3	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

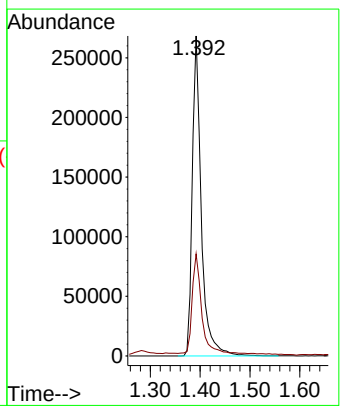
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

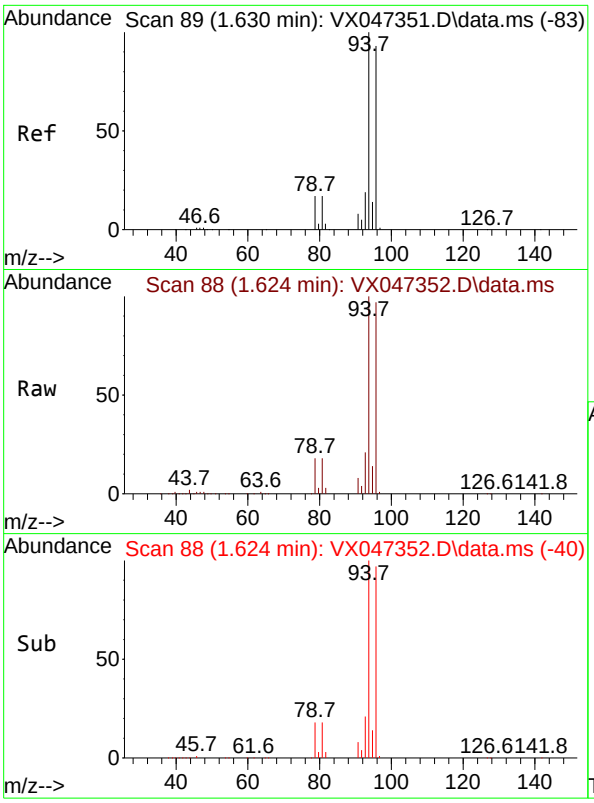


#4
Vinyl Chloride
Concen: 101.331 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 62 Resp: 336909

Ion	Ratio	Lower	Upper
62	100		
64	31.4	26.5	39.7

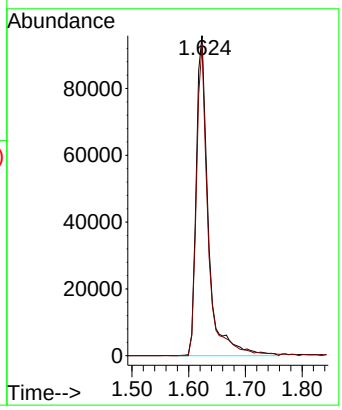




#5
Bromomethane
Concen: 106.217 ug/l
RT: 1.624 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 94 Resp: 14264

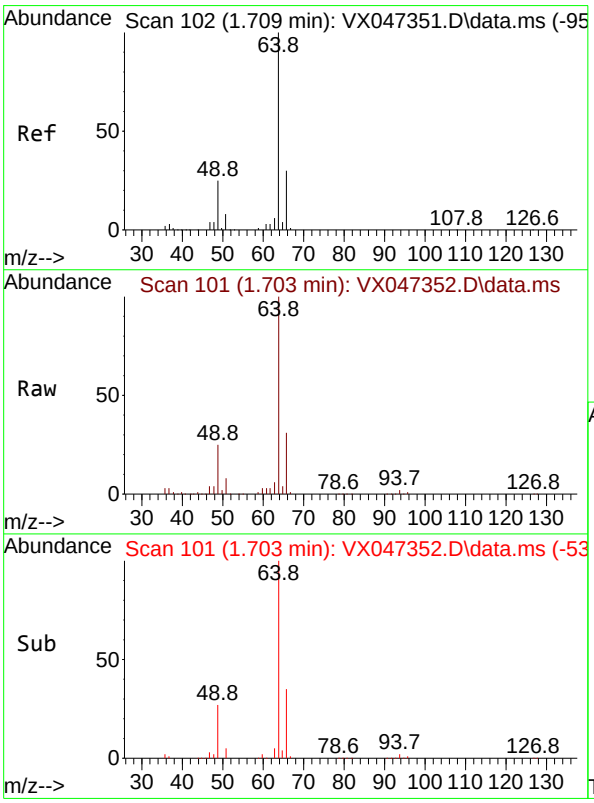
Ion	Ratio	Lower	Upper
94	100		
96	97.1	74.7	112.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

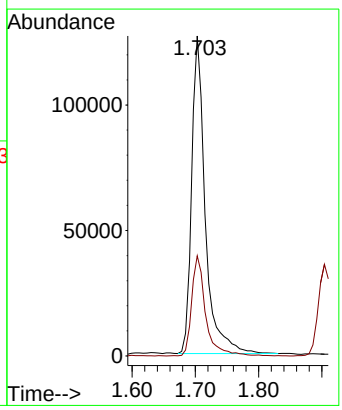
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

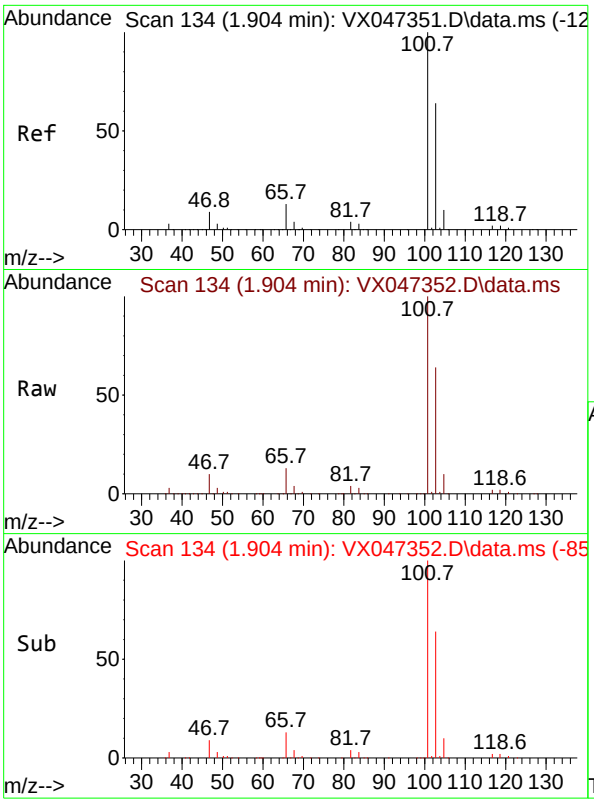


#6
Chloroethane
Concen: 93.112 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 64 Resp: 189413

Ion	Ratio	Lower	Upper
64	100		
66	31.4	24.4	36.6

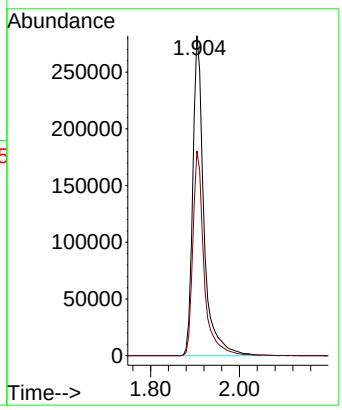




#7
Trichlorofluoromethane
Concen: 99.548 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:101 Resp: 48957

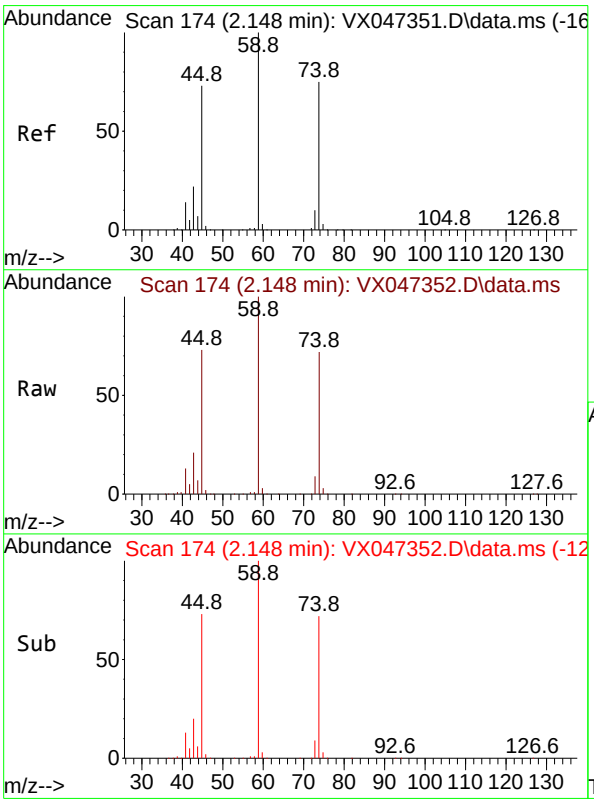
Ion	Ratio	Lower	Upper
101	100		
103	64.0	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

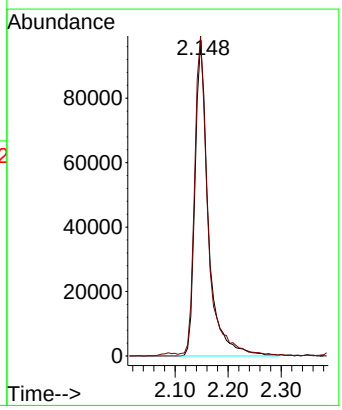
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

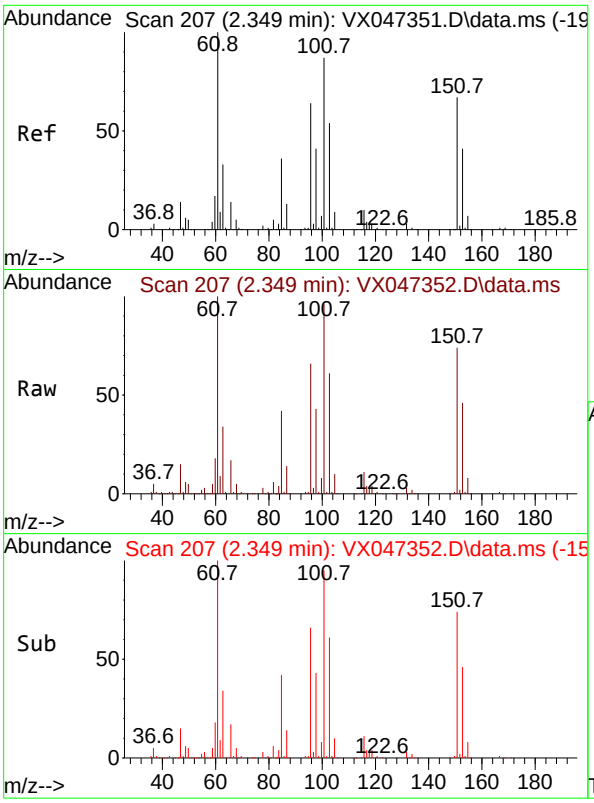


#8
Diethyl Ether
Concen: 98.832 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 74 Resp: 171145

Ion	Ratio	Lower	Upper
74	100		
45	102.0	51.3	154.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 101.101 ug/l
RT: 2.349 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

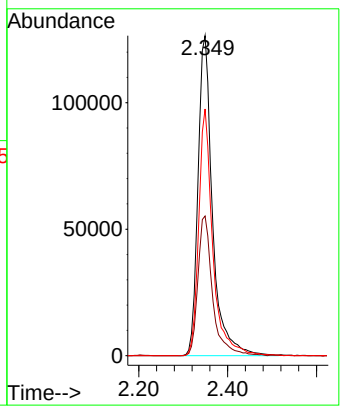
Tgt Ion:101 Resp: 28842(

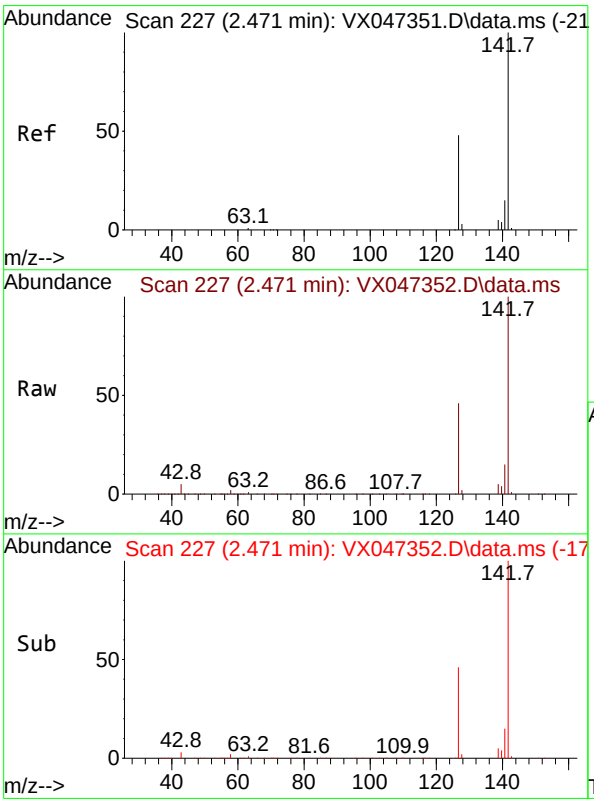
Ion	Ratio	Lower	Upper
101	100		
85	44.0	34.3	51.5
151	74.7	59.2	88.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

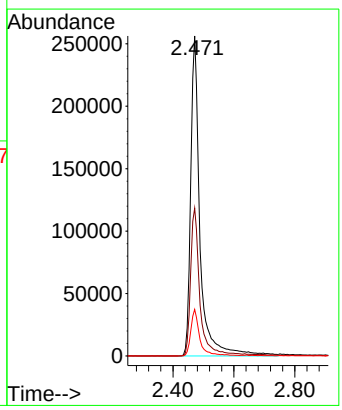


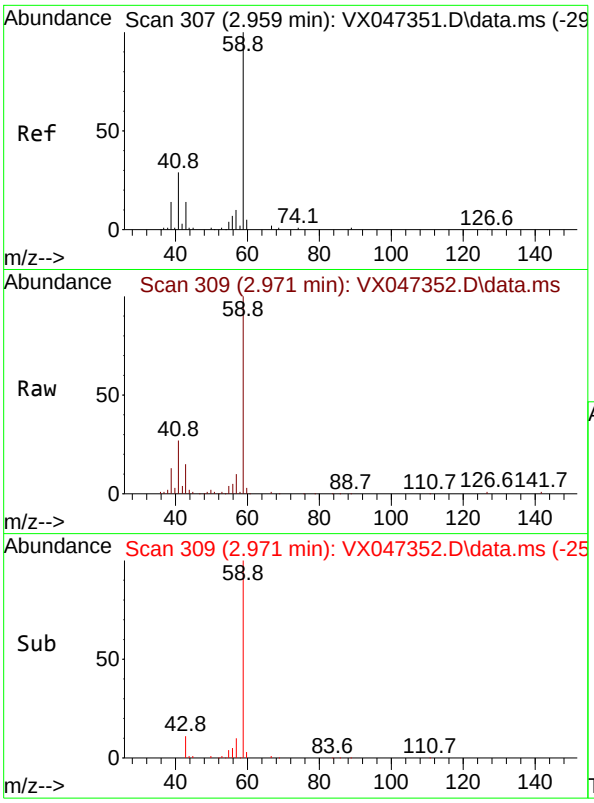


#10
Methyl Iodide
Concen: 111.619 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:142 Resp: 545687

Ion	Ratio	Lower	Upper
142	100		
127	46.6	36.1	54.1
141	14.0	11.1	16.7

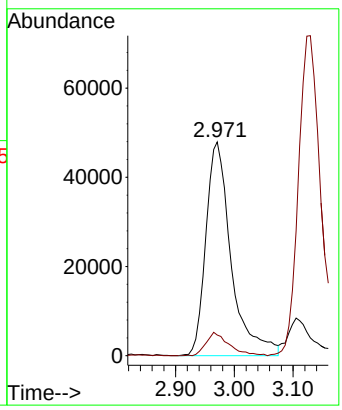




#11
Tert butyl alcohol
Concen: 510.865 ug/l
RT: 2.971 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 59 Resp: 14367

Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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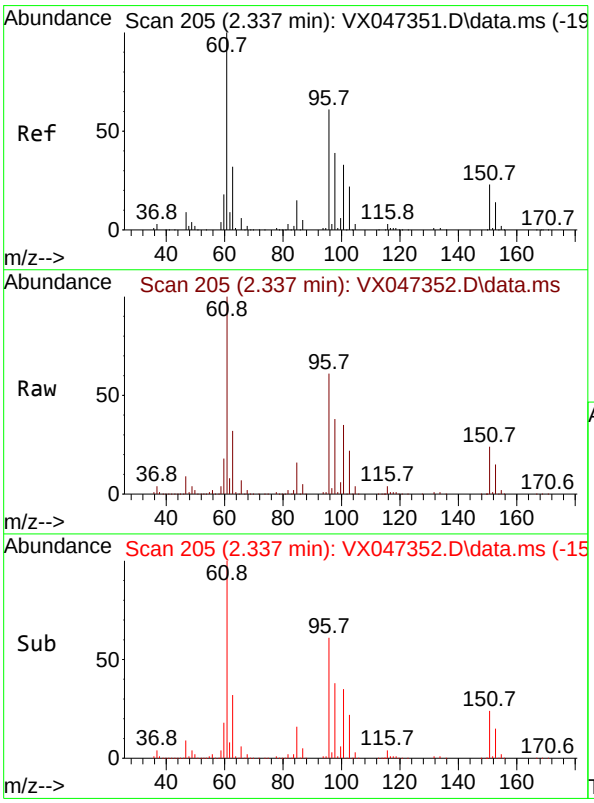
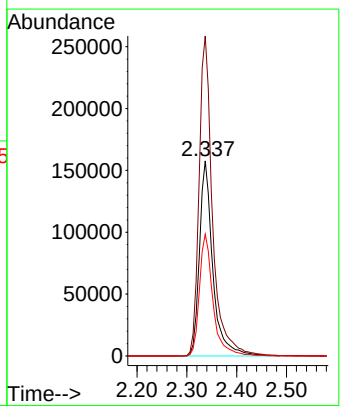
Supervised By :Mahesh Dadoda 08/19/2025

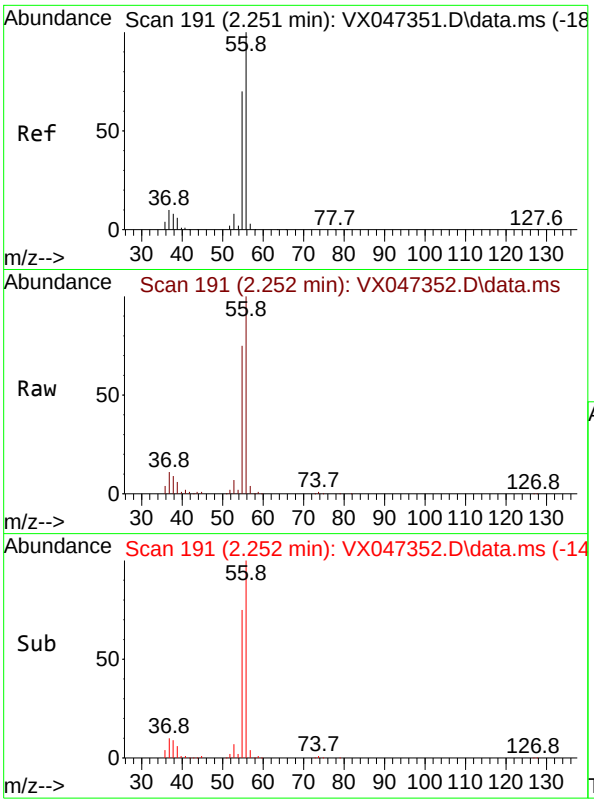


#12
1,1-Dichloroethene
Concen: 100.899 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 96 Resp: 293450

Ion	Ratio	Lower	Upper
96	100		
61	164.0	132.2	198.2
98	62.4	51.2	76.8

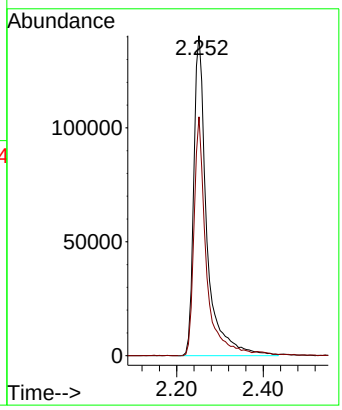




#13
Acrolein
Concen: 495.763 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 56 Resp: 29432

Ion	Ratio	Lower	Upper
56	100		
55	69.4	55.5	83.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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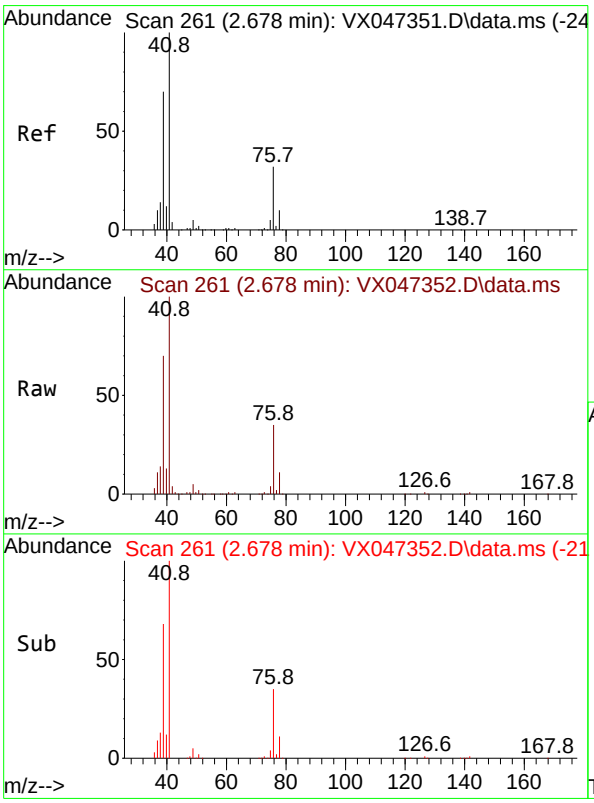
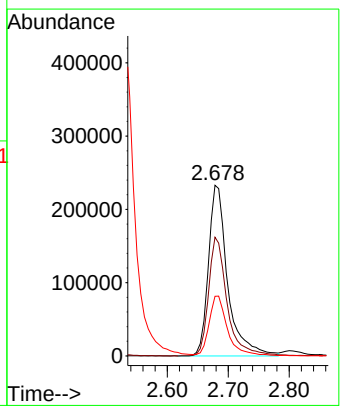
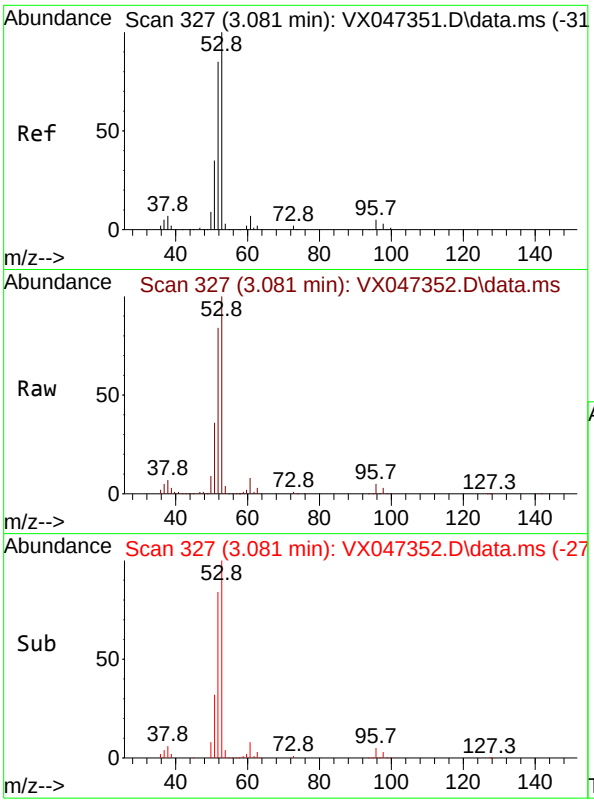


#14
Allyl chloride
Concen: 101.402 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 41 Resp: 512225

Ion	Ratio	Lower	Upper
41	100		
39	66.9	54.6	81.8
76	33.9	27.6	41.4

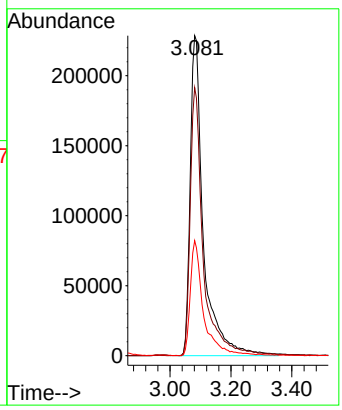




#15
Acrylonitrile
Concen: 509.058 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 53 Resp: 69179

Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.8	98.6
51	35.8	28.2	42.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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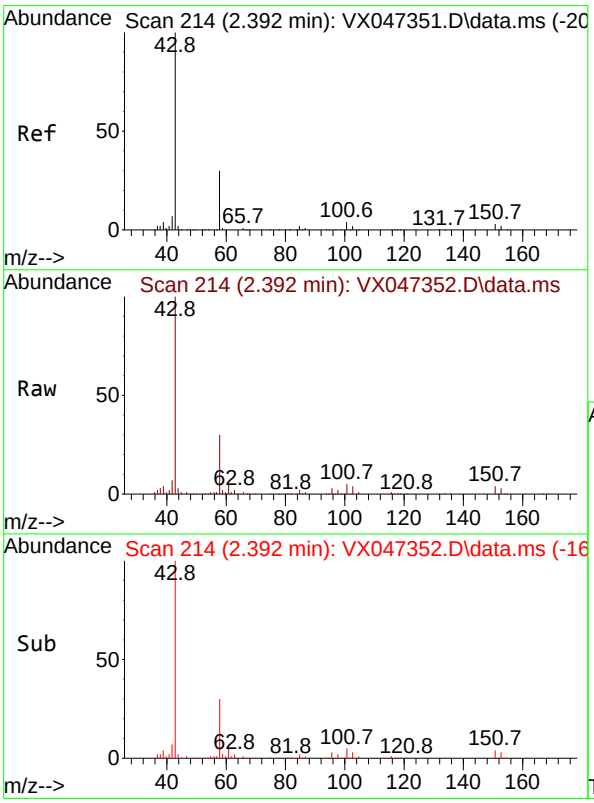
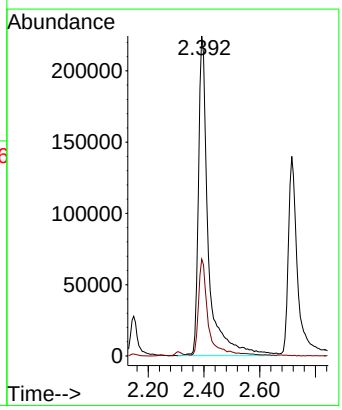
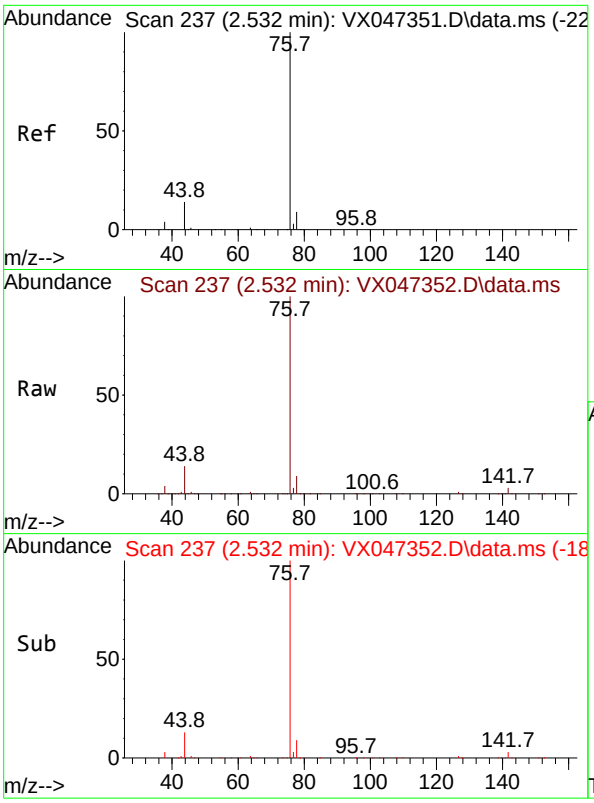


#16
Acetone
Concen: 456.549 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 43 Resp: 554774

Ion	Ratio	Lower	Upper
43	100		
58	30.0	24.8	37.2

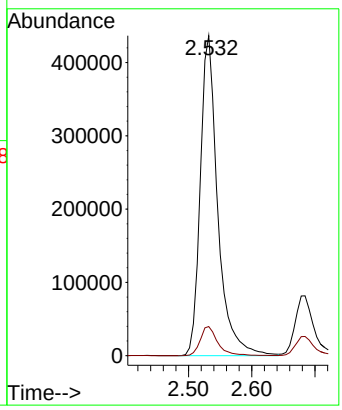




#17
Carbon Disulfide
Concen: 95.757 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 76 Resp: 84038

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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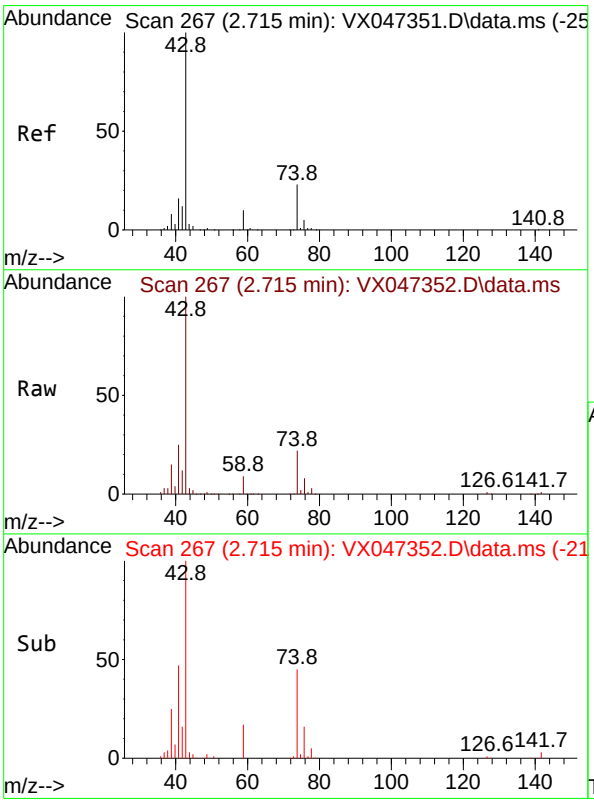
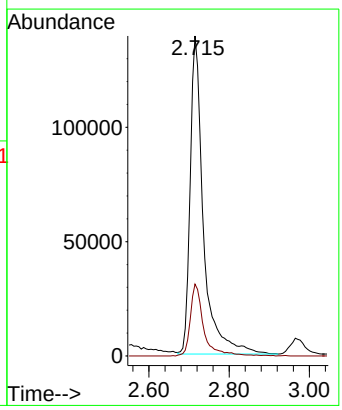
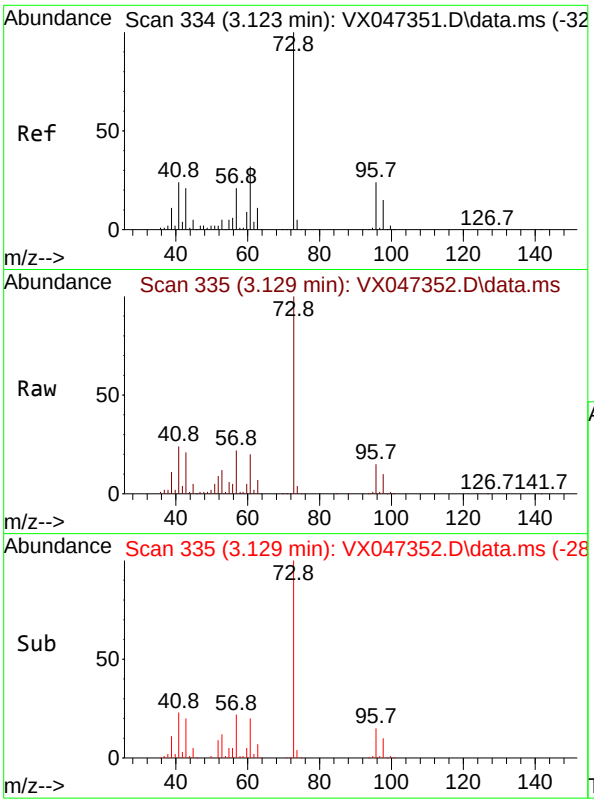


#18
Methyl Acetate
Concen: 101.128 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 43 Resp: 318444

Ion	Ratio	Lower	Upper
43	100		
74	22.8	18.4	27.6

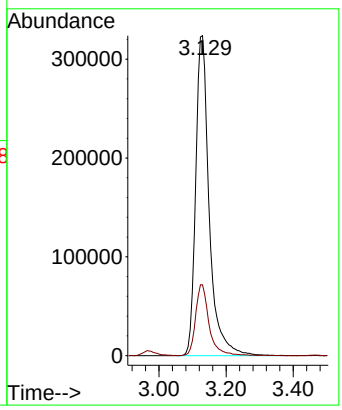




#19
Methyl tert-butyl Ether
Concen: 102.433 ug/l
RT: 3.129 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 73 Resp: 90630

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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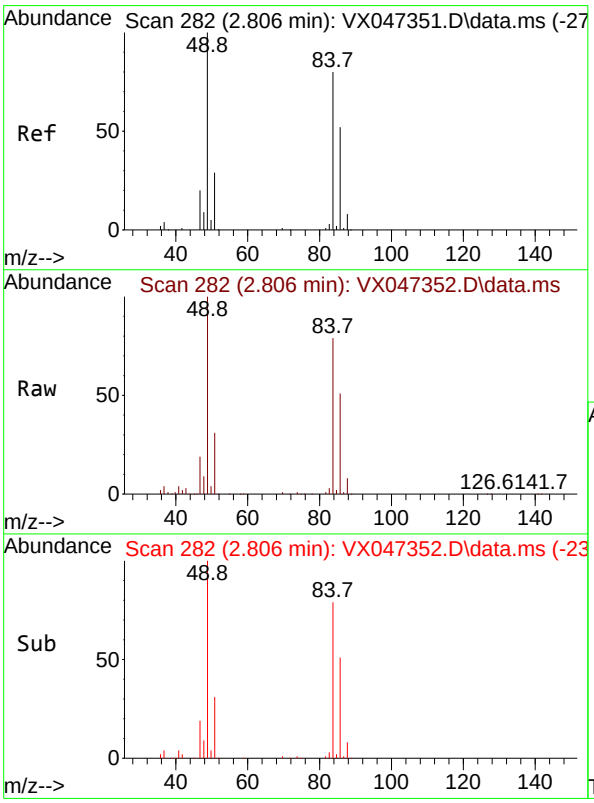
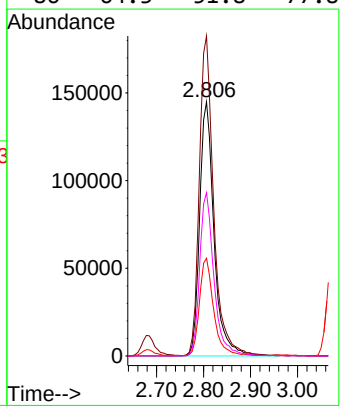
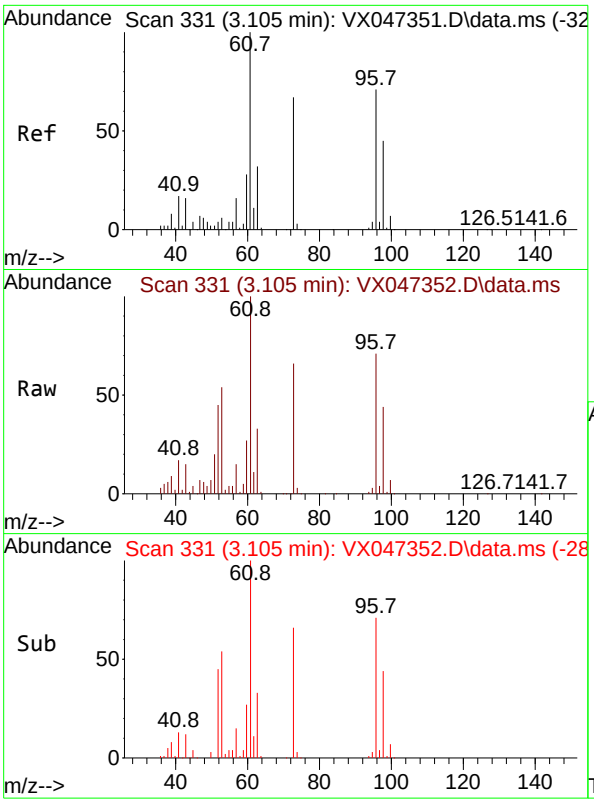


#20
Methylene Chloride
Concen: 96.088 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 84 Resp: 309183

Ion	Ratio	Lower	Upper
84	100		
49	125.7	100.1	150.1
51	38.3	29.5	44.3
86	64.3	51.8	77.8

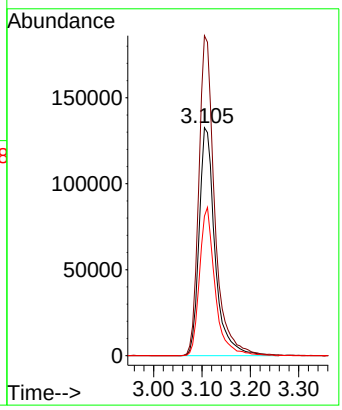




#21
trans-1,2-Dichloroethene
Concen: 98.051 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 96 Resp: 30266

Ion	Ratio	Lower	Upper
96	100		
61	140.3	112.6	169.0
98	61.2	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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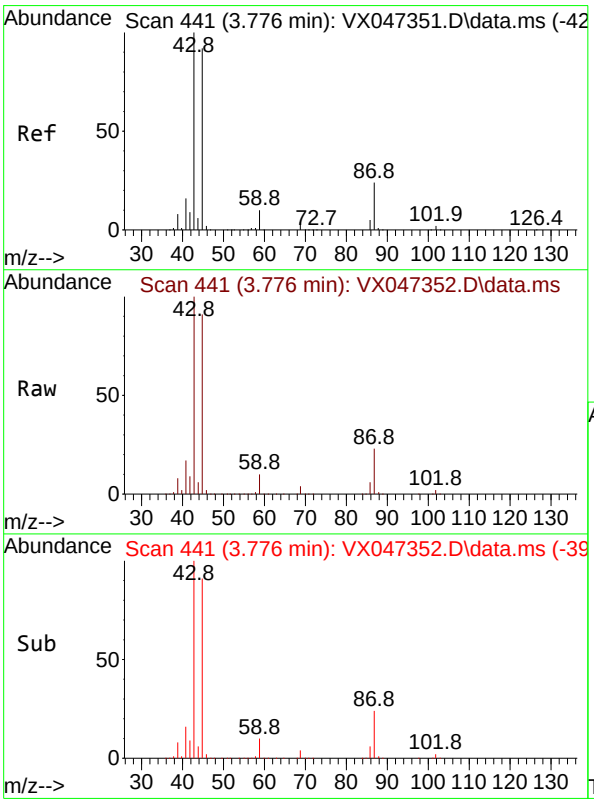
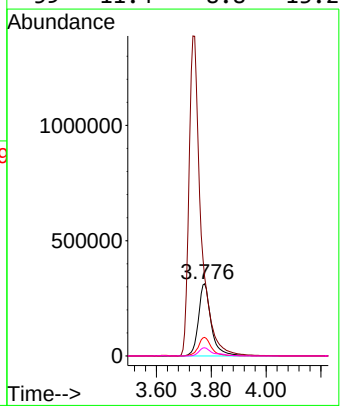
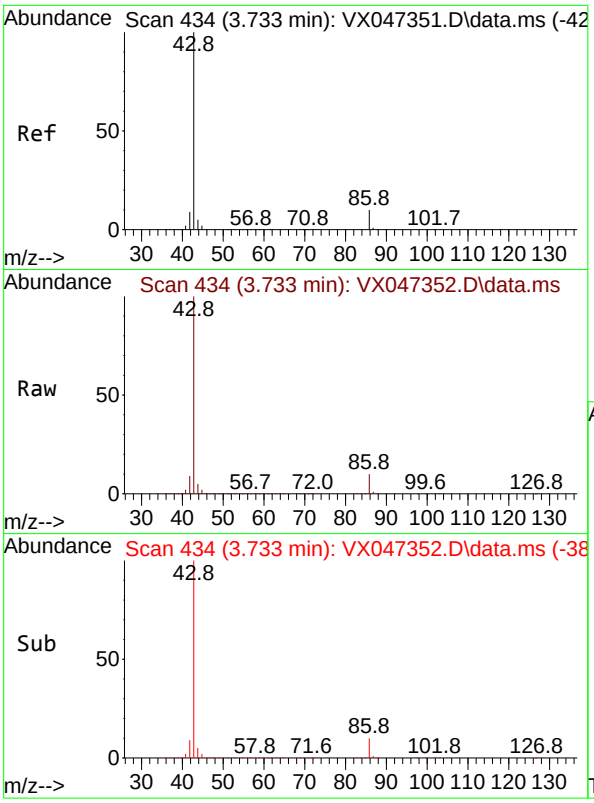


#22
Diisopropyl ether
Concen: 100.865 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 45 Resp: 1007141

Ion	Ratio	Lower	Upper
45	100		
43	110.0	86.8	130.2
87	25.8	20.4	30.6
59	11.4	8.8	13.2

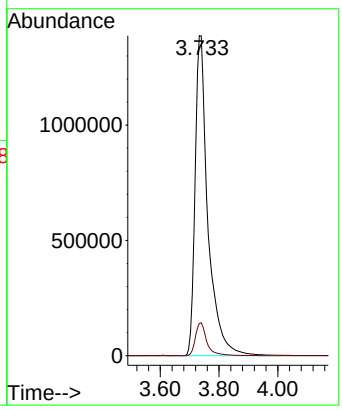




#23
Vinyl Acetate
Concen: 514.008 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 43 Resp: 420676

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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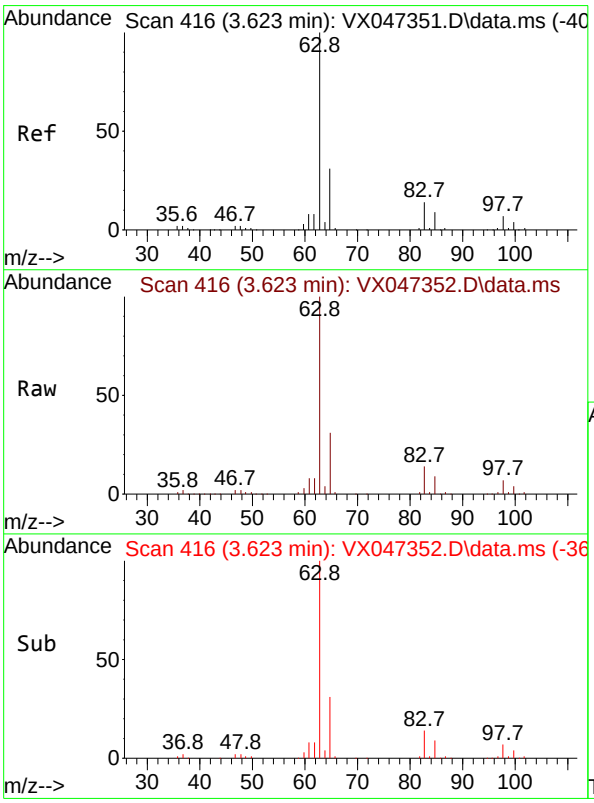
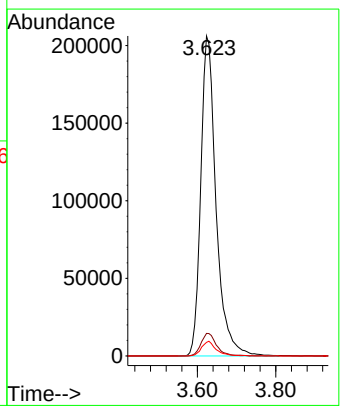
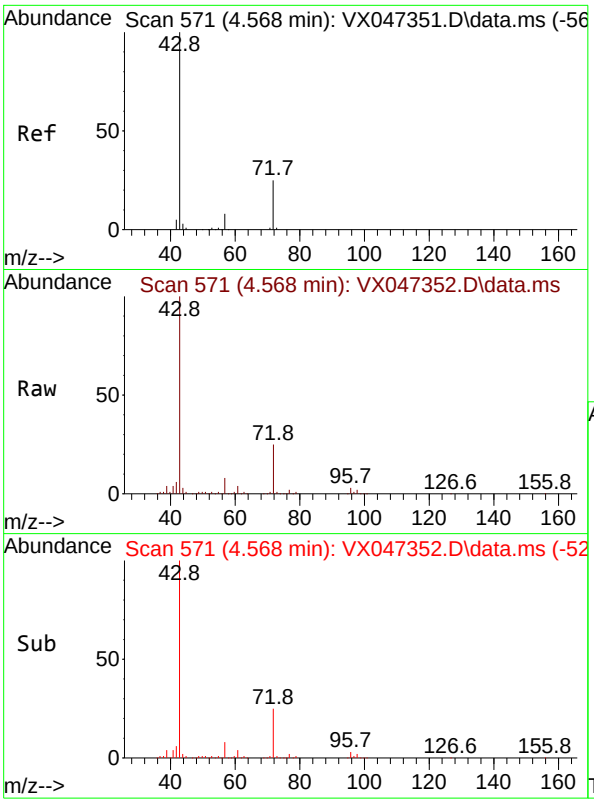


#24
1,1-Dichloroethane
Concen: 99.034 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 63 Resp: 558936

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.3	9.9
100	4.2	2.1	6.3

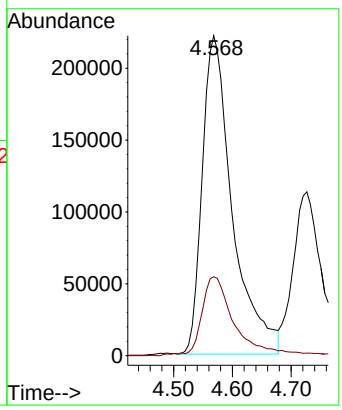




#25
2-Butanone
Concen: 496.288 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 43 Resp: 78981

Ion	Ratio	Lower	Upper
43	100		
72	23.9	19.8	29.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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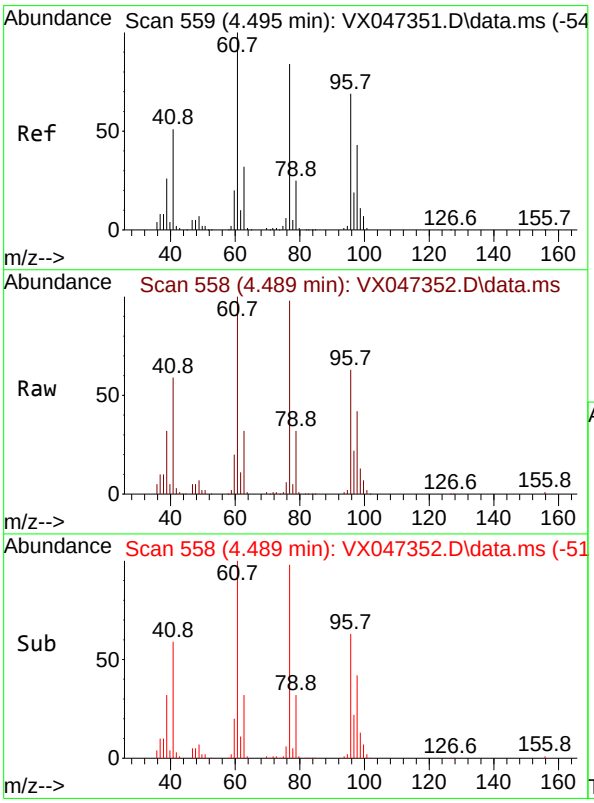
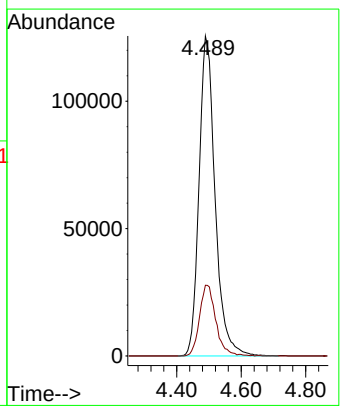
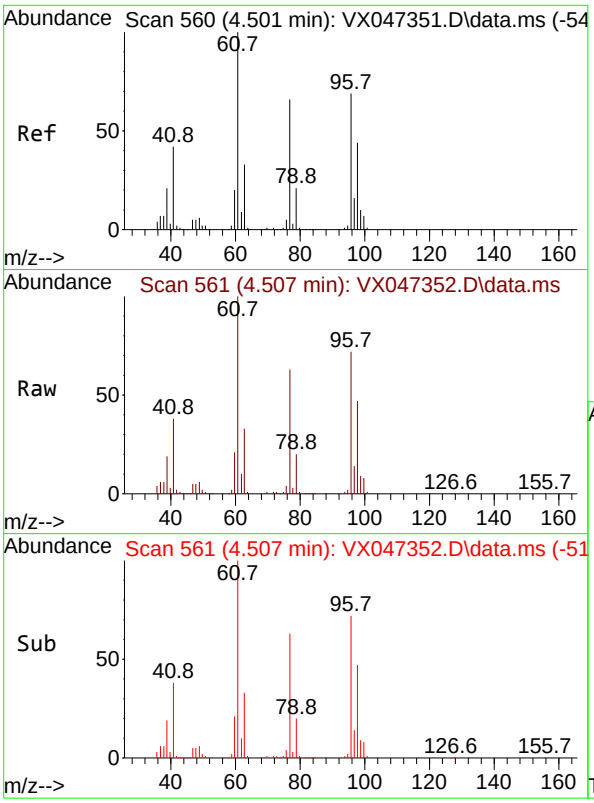


#26
2,2-Dichloropropane
Concen: 101.916 ug/l
RT: 4.489 min Scan# 558
Delta R.T. -0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 77 Resp: 434139

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.4	34.1

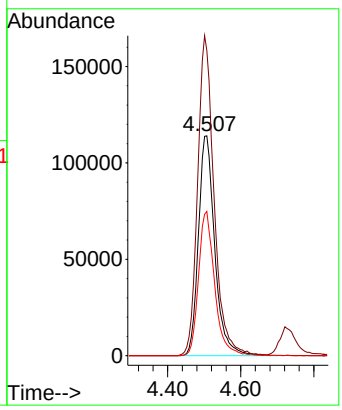




#27
cis-1,2-Dichloroethene
Concen: 98.806 ug/l
RT: 4.507 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 96 Resp: 35523

Ion	Ratio	Lower	Upper
96	100		
61	146.5	0.0	296.6
98	64.6	0.0	130.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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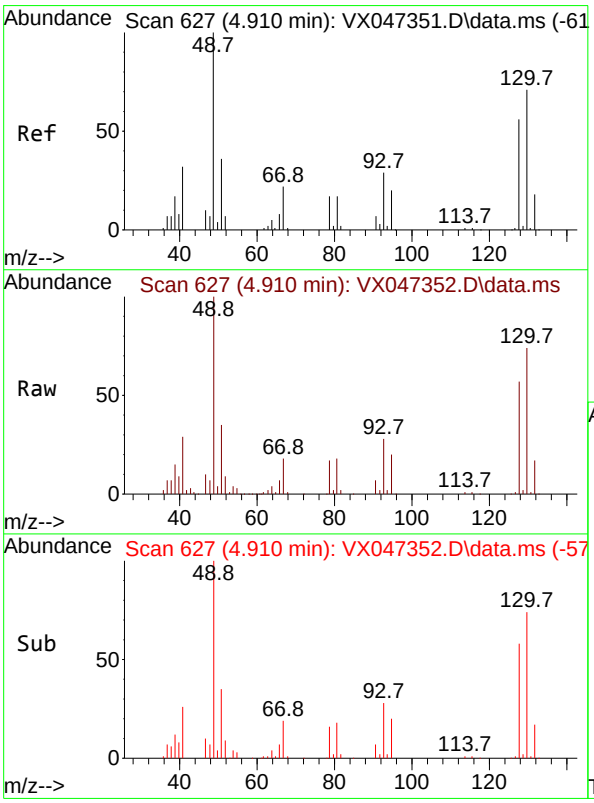
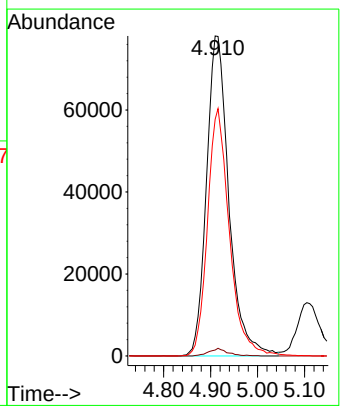
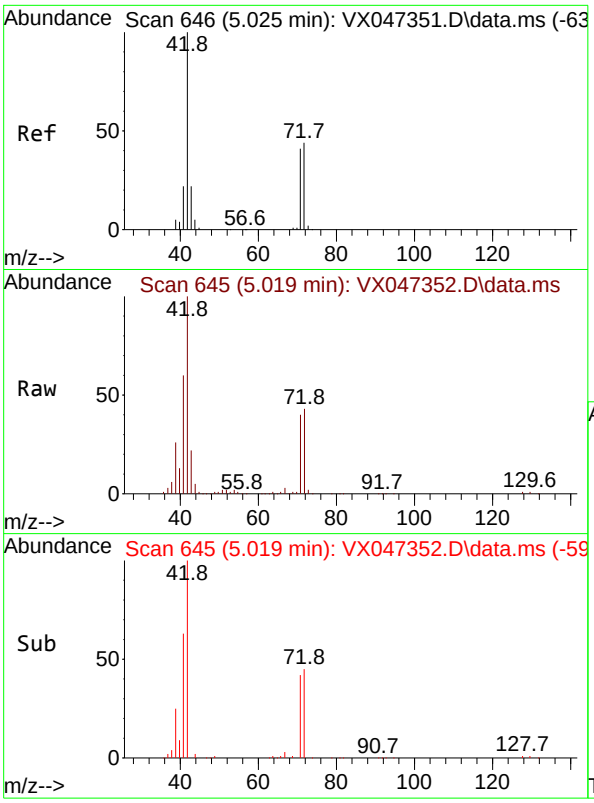


#28
Bromochloromethane
Concen: 110.131 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 49 Resp: 258648

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	75.6	59.8	89.6





#29
Tetrahydrofuran
Concen: 491.640 ug/l
RT: 5.019 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 42 Resp: 505709

Ion	Ratio	Lower	Upper
42	100		
72	45.0	34.6	51.8
71	41.7	32.6	49.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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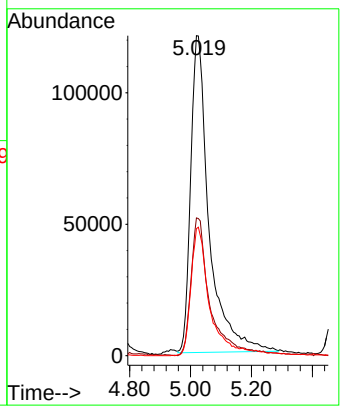
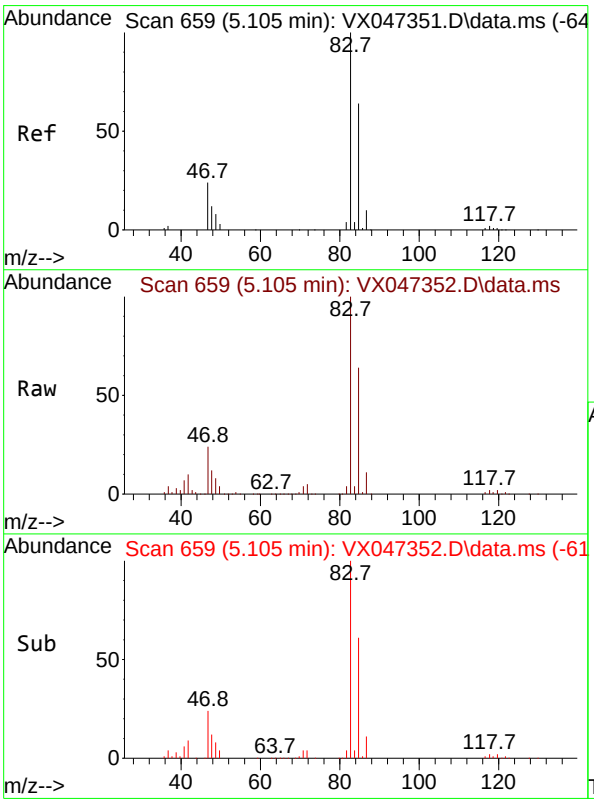
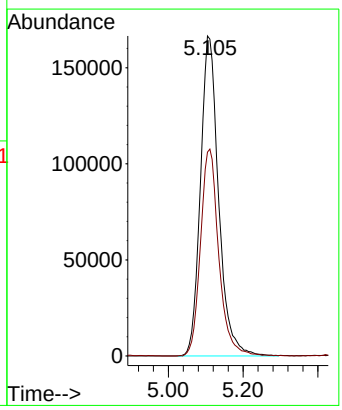


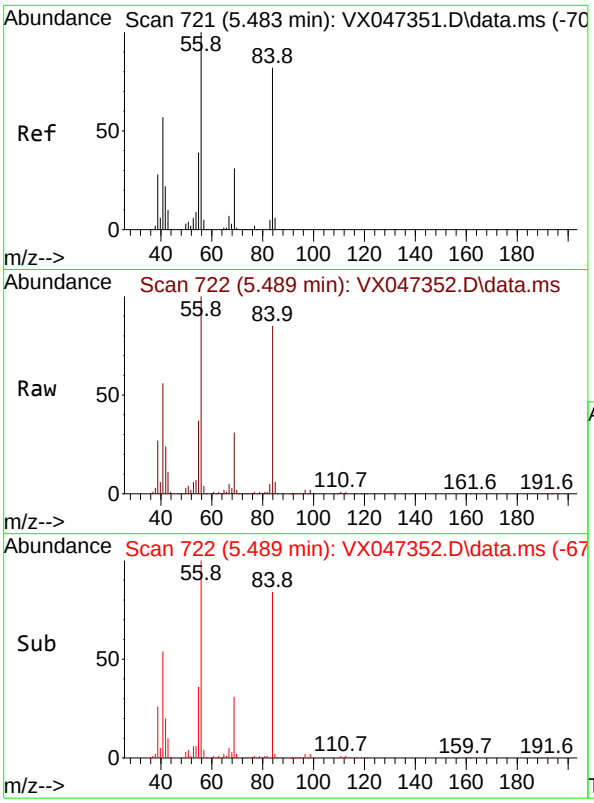


#30
Chloroform
Concen: 97.394 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 83 Resp: 560984

Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.2	76.8

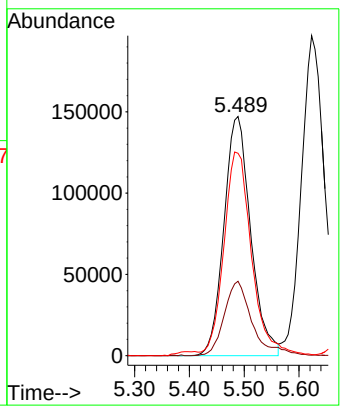




#31
Cyclohexane
Concen: 96.100 ug/l
RT: 5.489 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 56 Resp: 49997

Ion	Ratio	Lower	Upper
56	100		
69	30.8	24.3	36.5
84	83.5	65.3	97.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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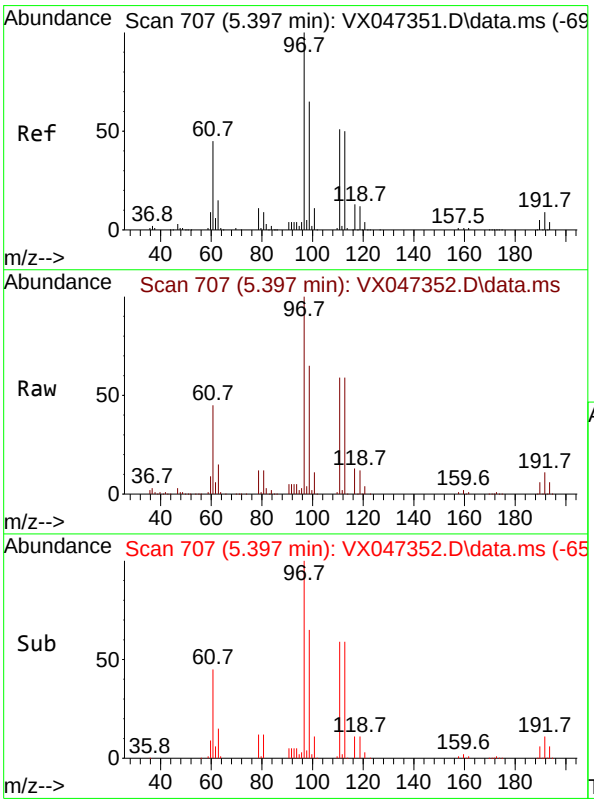
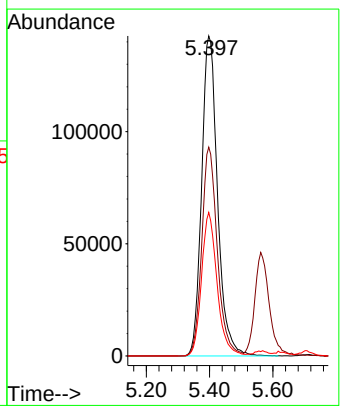
Supervised By :Mahesh Dadoda 08/19/2025

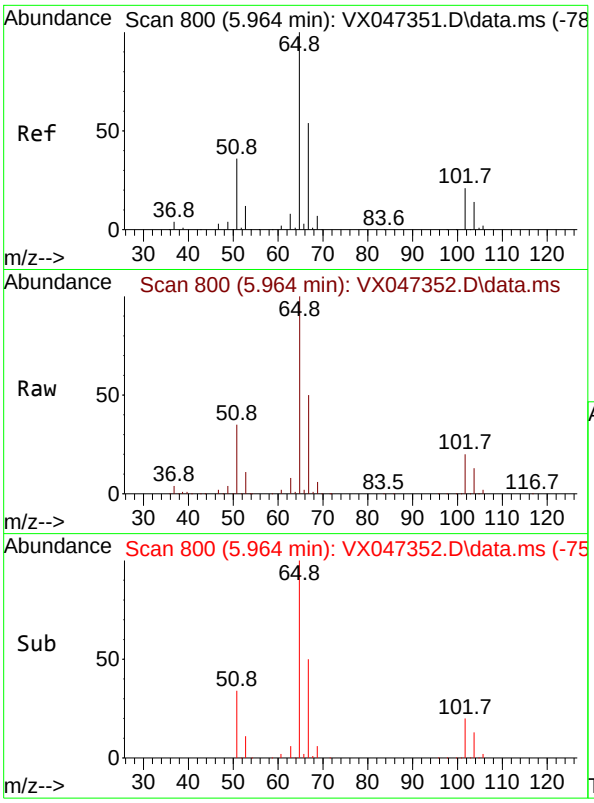


#32
1,1,1-Trichloroethane
Concen: 100.709 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 97 Resp: 499294

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.4	77.0
61	43.9	35.7	53.5

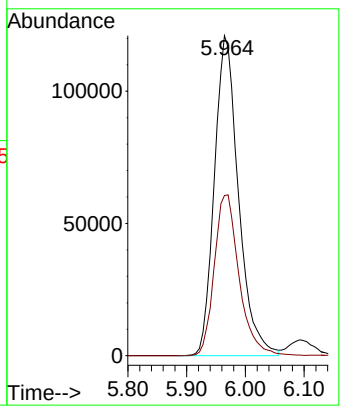




#33
1,2-Dichloroethane-d4
Concen: 106.746 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 65 Resp: 34508

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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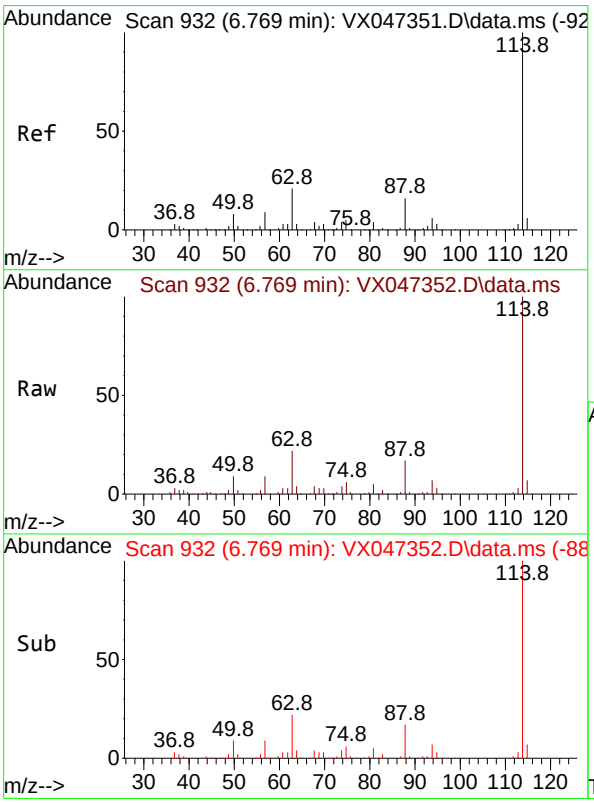
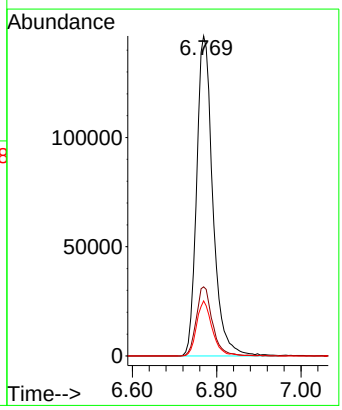
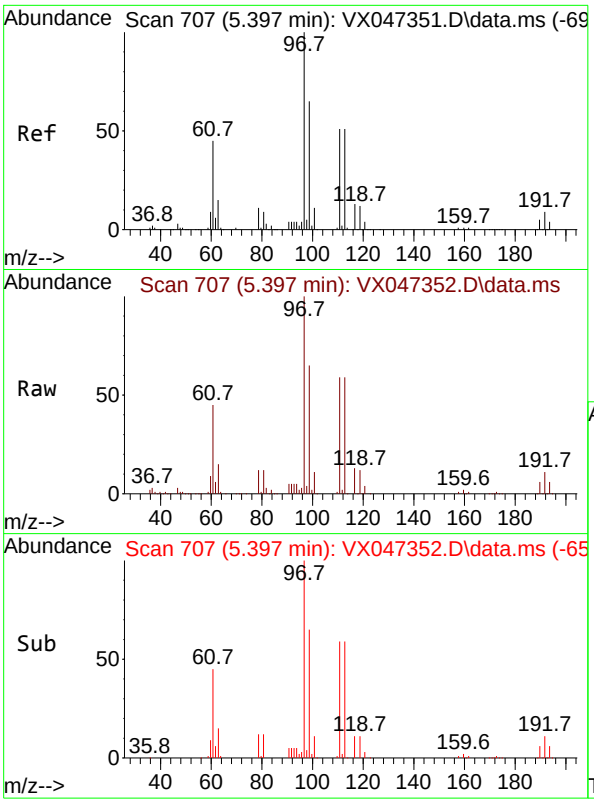


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:114 Resp: 391443

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	42.4
88	17.2	0.0	33.0

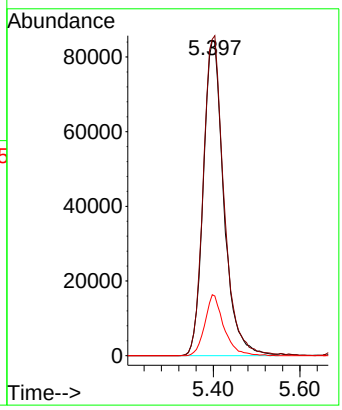




#35
Dibromofluoromethane
Concen: 108.967 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:113 Resp: 27683

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.4	122.2
192	18.0	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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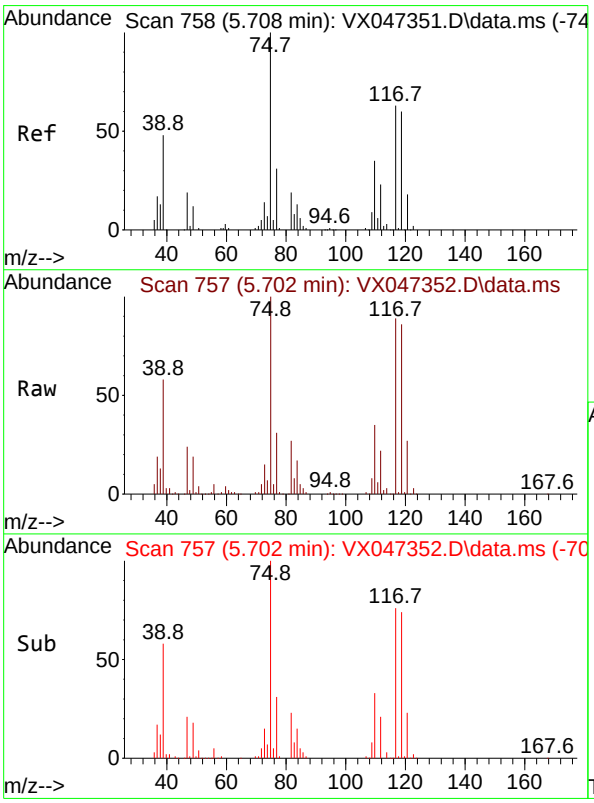
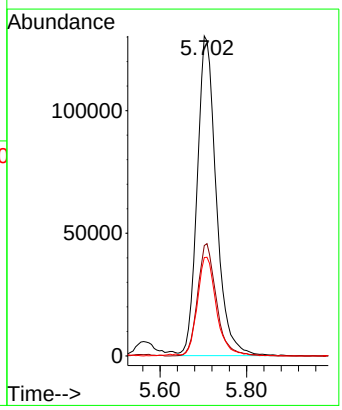
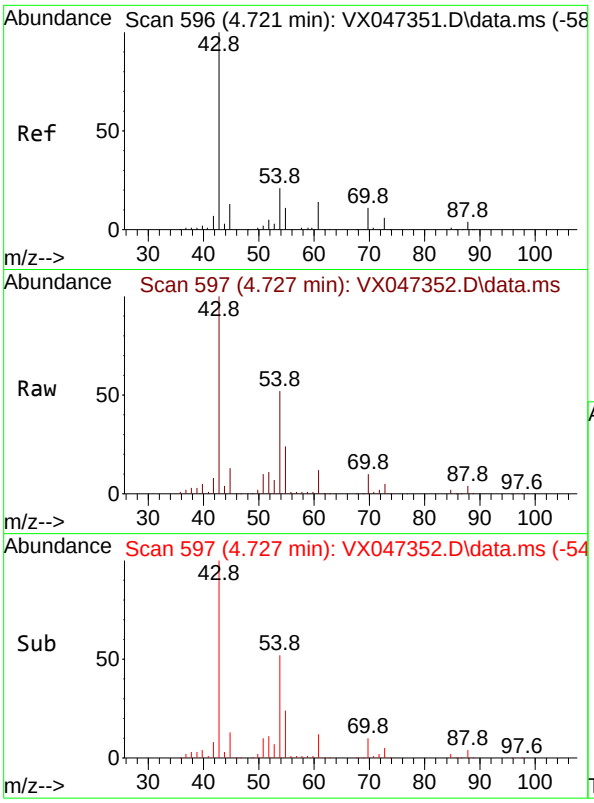


#36
1,1-Dichloropropene
Concen: 99.278 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 75 Resp: 398144

Ion	Ratio	Lower	Upper
75	100		
110	34.7	17.4	52.2
77	30.8	24.4	36.6

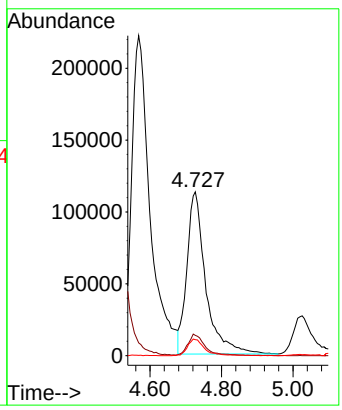




#37
Ethyl Acetate
Concen: 99.265 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 43 Resp: 41327

Ion	Ratio	Lower	Upper
43	100		
61	11.5	9.4	14.2
70	9.2	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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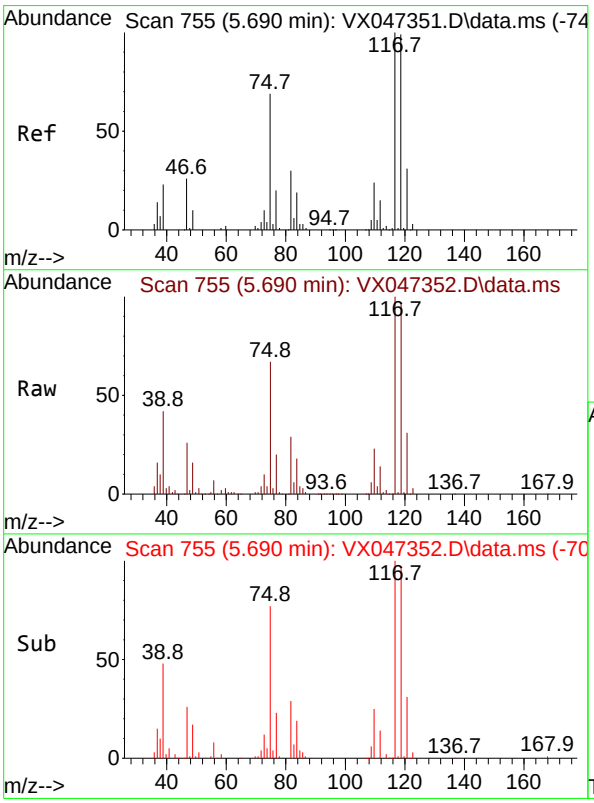
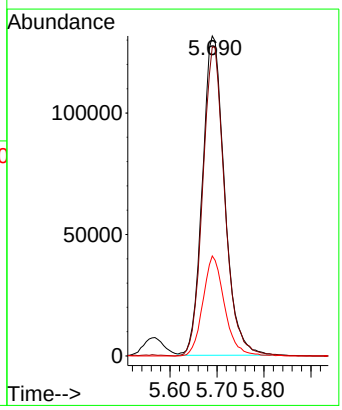
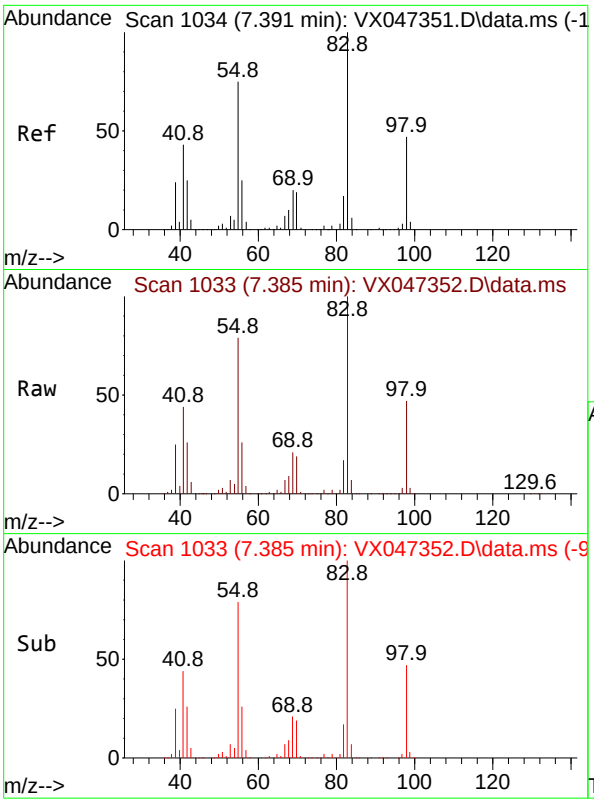


#38
Carbon Tetrachloride
Concen: 98.132 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:117 Resp: 430061

Ion	Ratio	Lower	Upper
117	100		
119	96.7	78.5	117.7
121	31.3	24.7	37.1

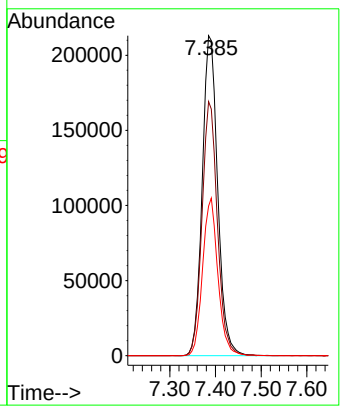




#39
Methylcyclohexane
Concen: 100.134 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 83 Resp: 50090

Ion	Ratio	Lower	Upper
83	100		
55	79.4	60.0	90.0
98	46.7	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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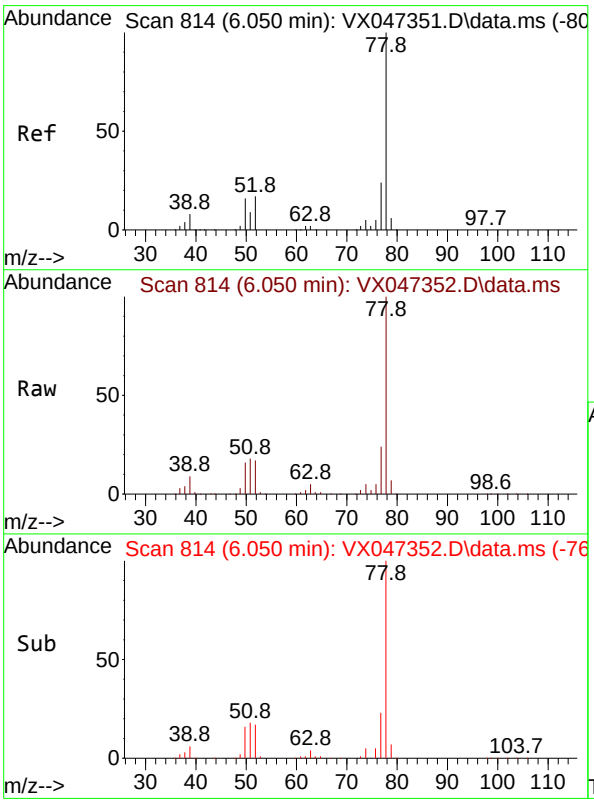
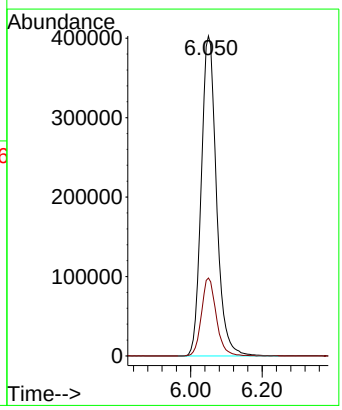
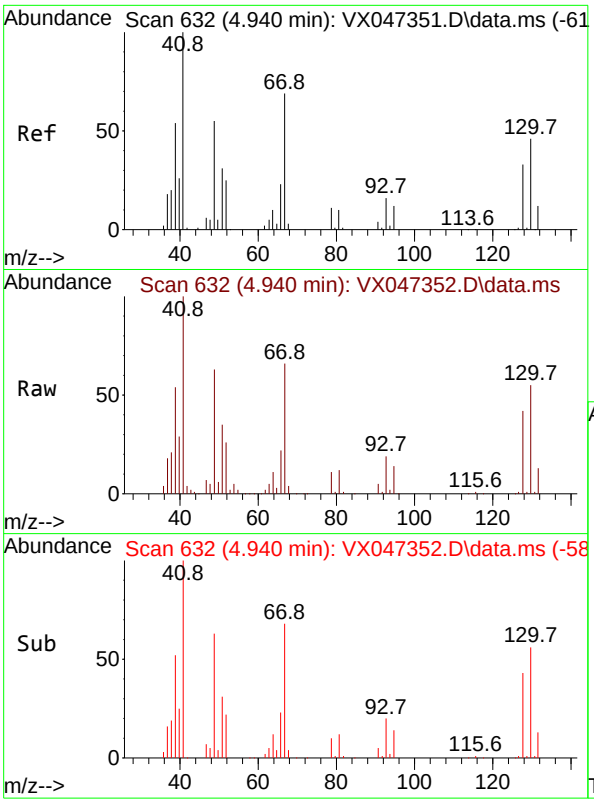


#40
Benzene
Concen: 98.866 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 78 Resp: 1186760

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.0	28.4

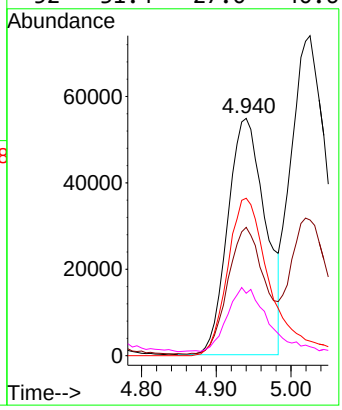




#41
Methacrylonitrile
Concen: 109.177 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 41 Resp: 19167

Ion	Ratio	Lower	Upper
41	100		
39	53.0	45.4	68.2
67	75.5	64.0	96.0
52	31.4	27.0	40.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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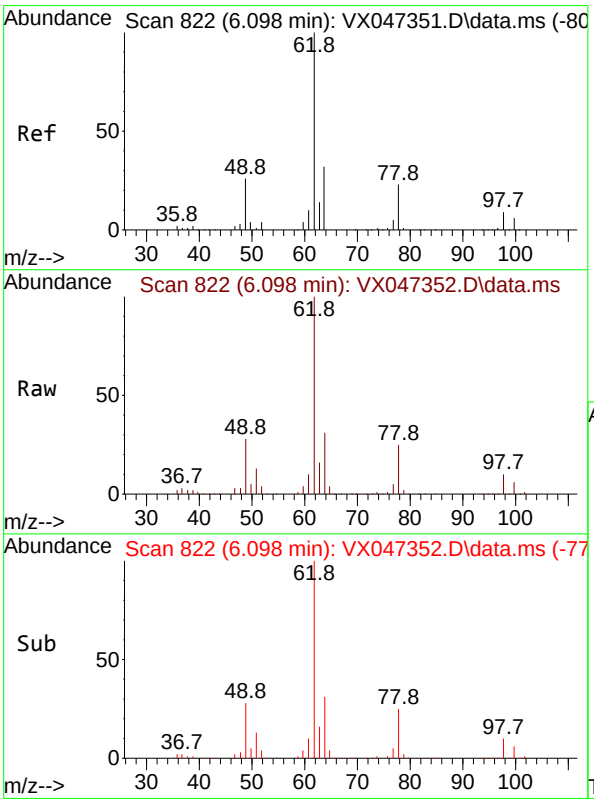
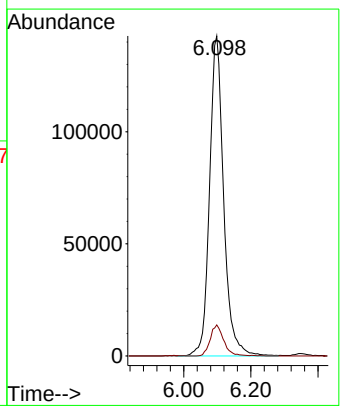
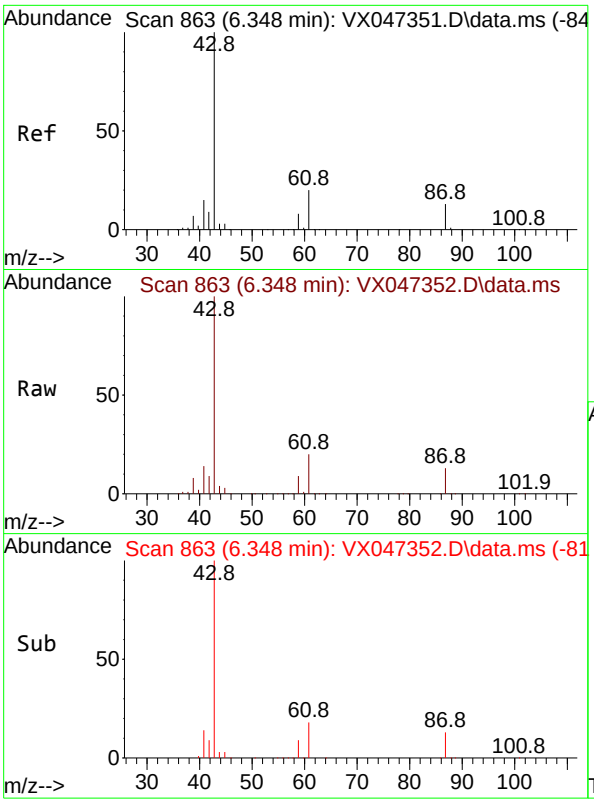


#42
1,2-Dichloroethane
Concen: 97.940 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 62 Resp: 416430

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.0

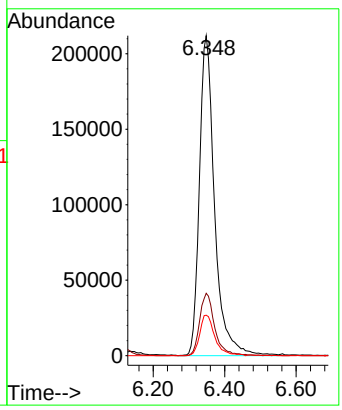




#43
Isopropyl Acetate
Concen: 104.400 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 43 Resp: 62442

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.4	23.0
87	12.6	10.2	15.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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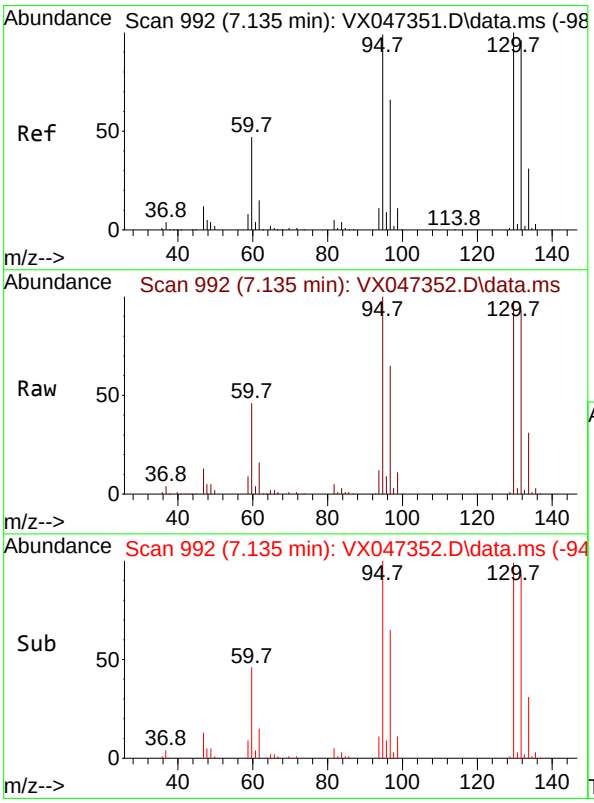
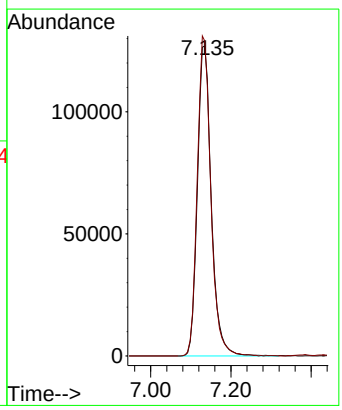
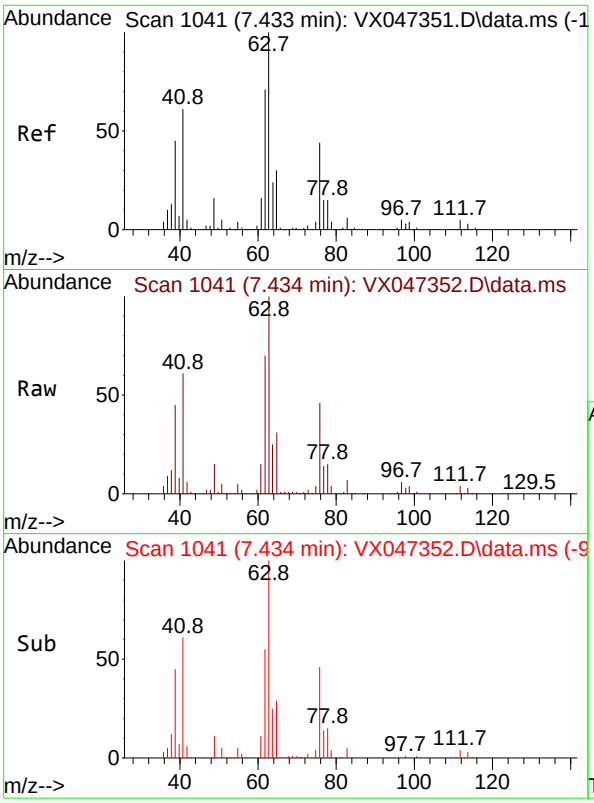


#44
Trichloroethene
Concen: 99.224 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:130 Resp: 304976

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	198.6

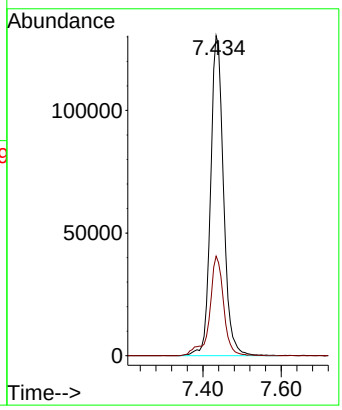




#45
1,2-Dichloropropane
Concen: 99.300 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 63 Resp: 29861

Ion	Ratio	Lower	Upper
63	100		
65	31.1	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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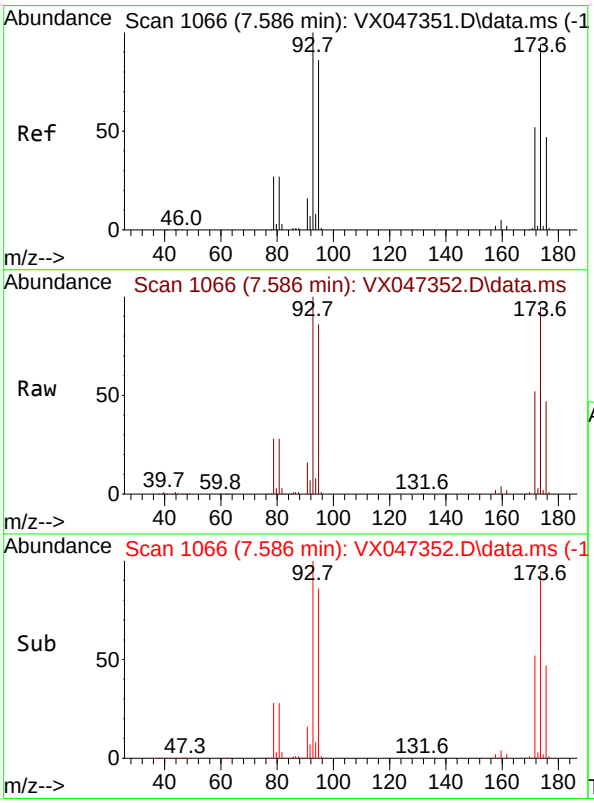
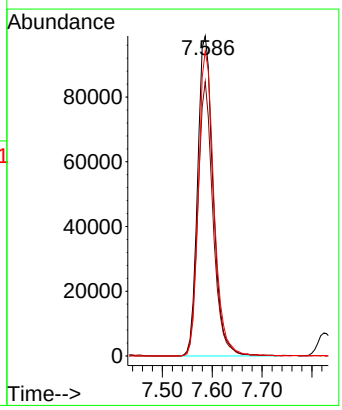
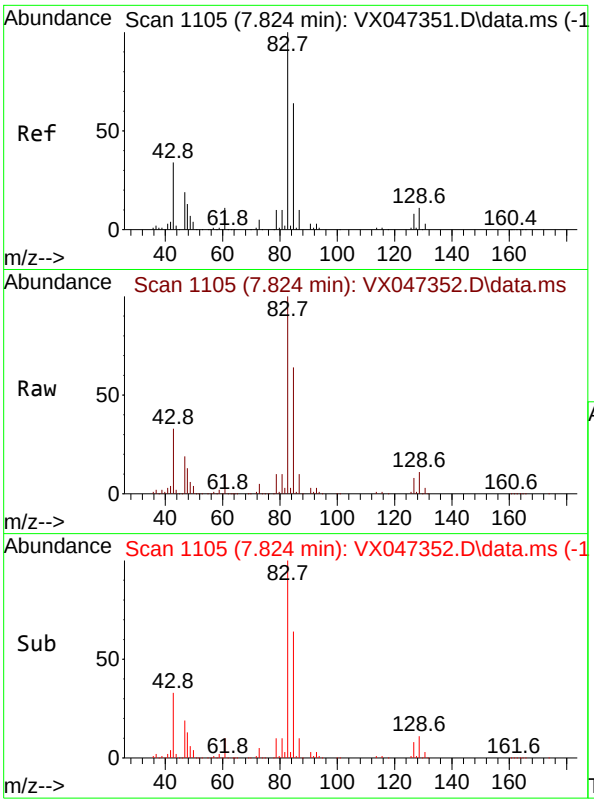


#46
Dibromomethane
Concen: 98.052 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 93 Resp: 214069

Ion	Ratio	Lower	Upper
93	100		
95	83.3	68.0	102.0
174	95.0	75.8	113.6

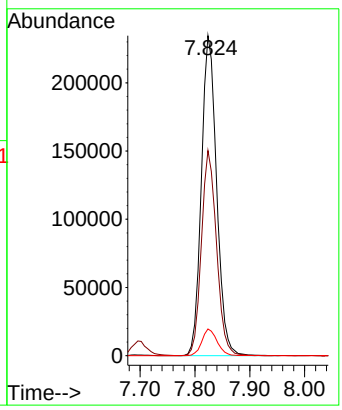




#47
Bromodichloromethane
Concen: 99.995 ug/l
RT: 7.824 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 83 Resp: 45257

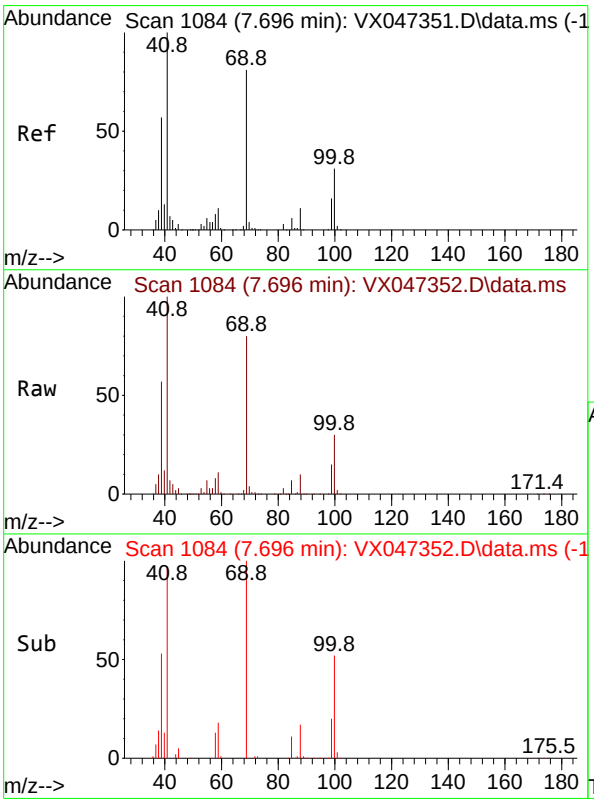
Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.0	76.6
127	8.3	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

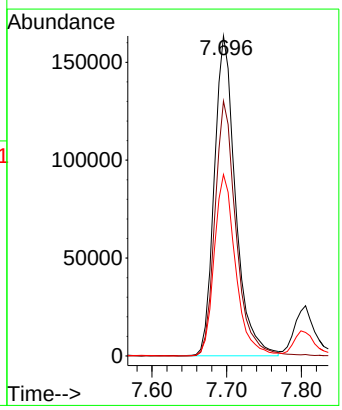
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

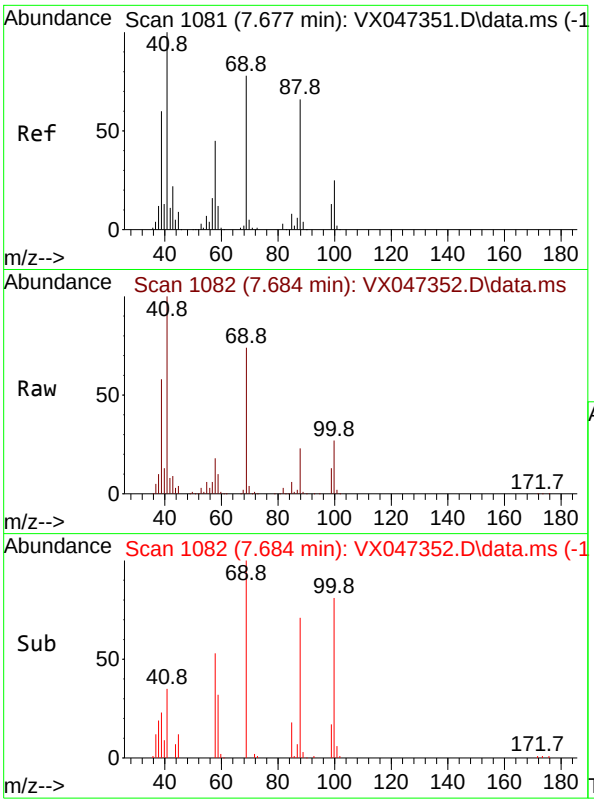


#48
Methyl methacrylate
Concen: 103.875 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 41 Resp: 322487

Ion	Ratio	Lower	Upper
41	100		
69	79.6	65.0	97.4
39	57.1	45.7	68.5





#49
1,4-Dioxane
Concen: 2073.830 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 88 Resp: 6114

Ion	Ratio	Lower	Upper
88	100		
43	40.9	32.4	48.6
58	74.8	56.9	85.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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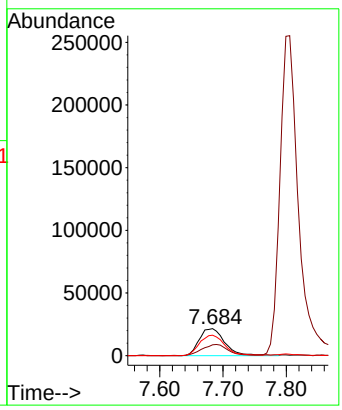
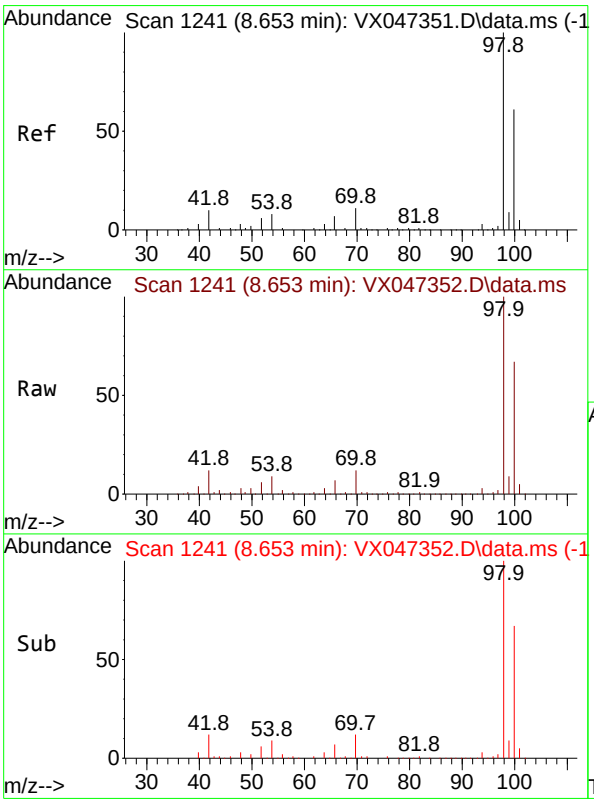
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

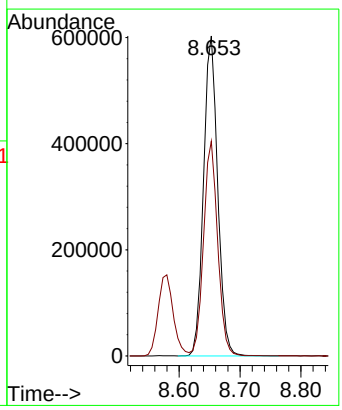


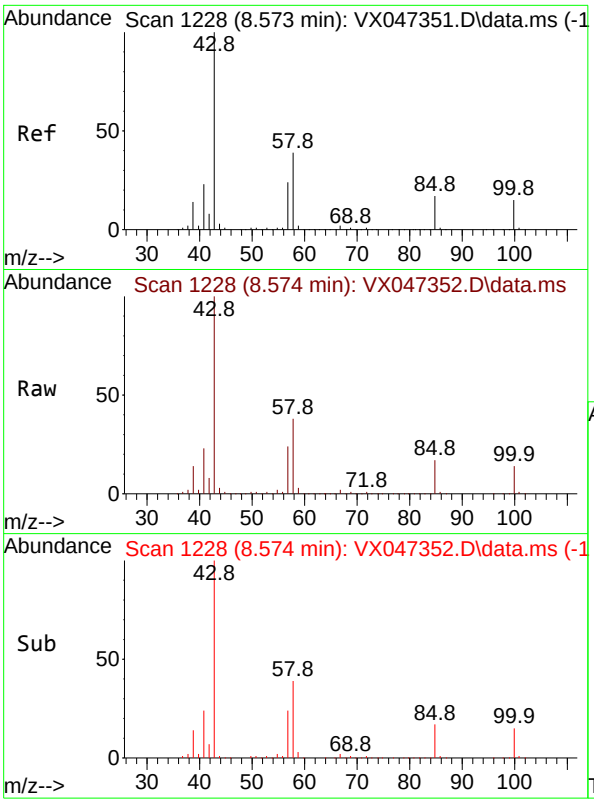


#50
Toluene-d8
Concen: 107.419 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 98 Resp: 975414

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.9	80.9

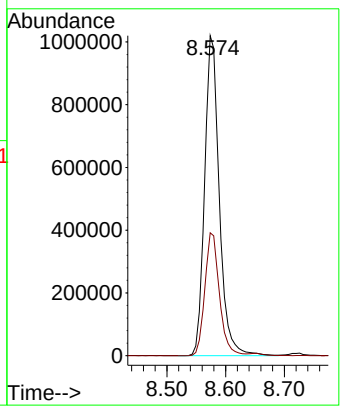




#51
4-Methyl-2-Pentanone
Concen: 513.097 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 43 Resp: 176600

Ion	Ratio	Lower	Upper
43	100		
58	38.2	31.2	46.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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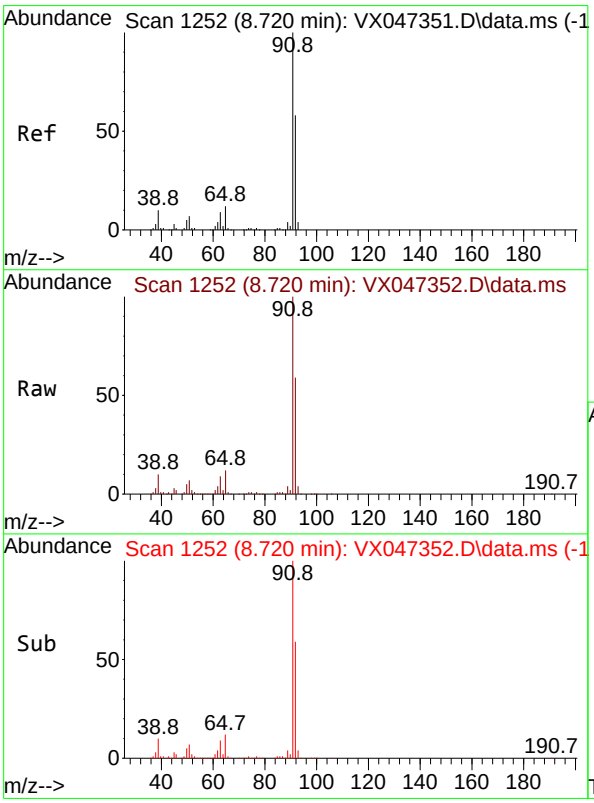
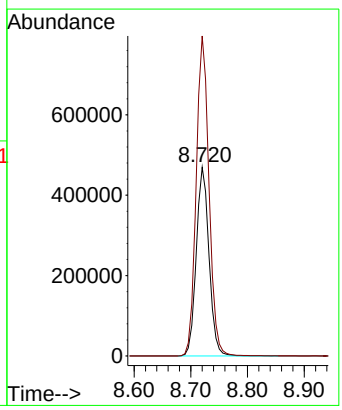
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

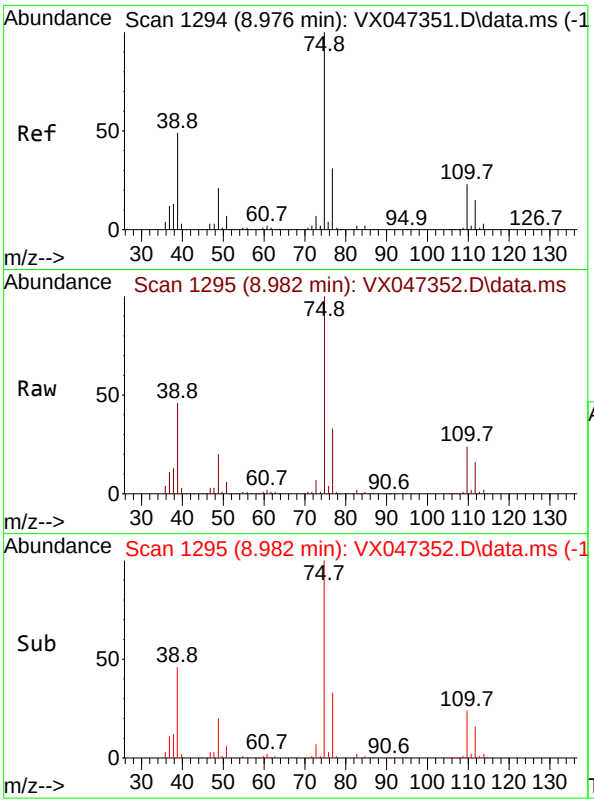


#52
Toluene
Concen: 98.837 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 92 Resp: 733119

Ion	Ratio	Lower	Upper
92	100		
91	170.1	136.3	204.5

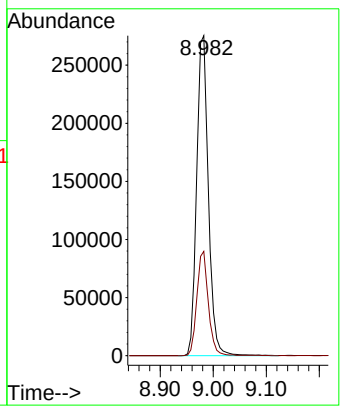




#53
t-1,3-Dichloropropene
Concen: 107.156 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 75 Resp: 42327

Ion	Ratio	Lower	Upper
75	100		
77	32.6	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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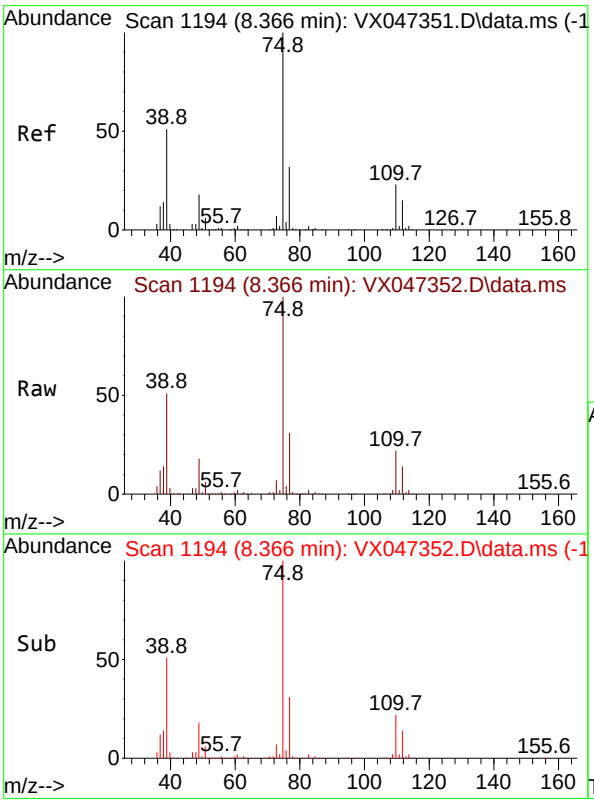
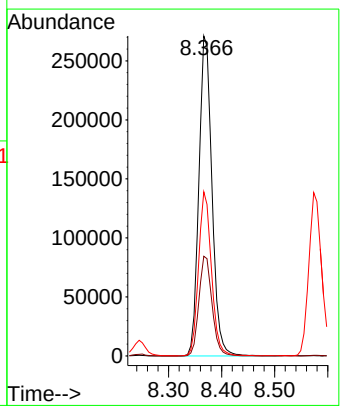
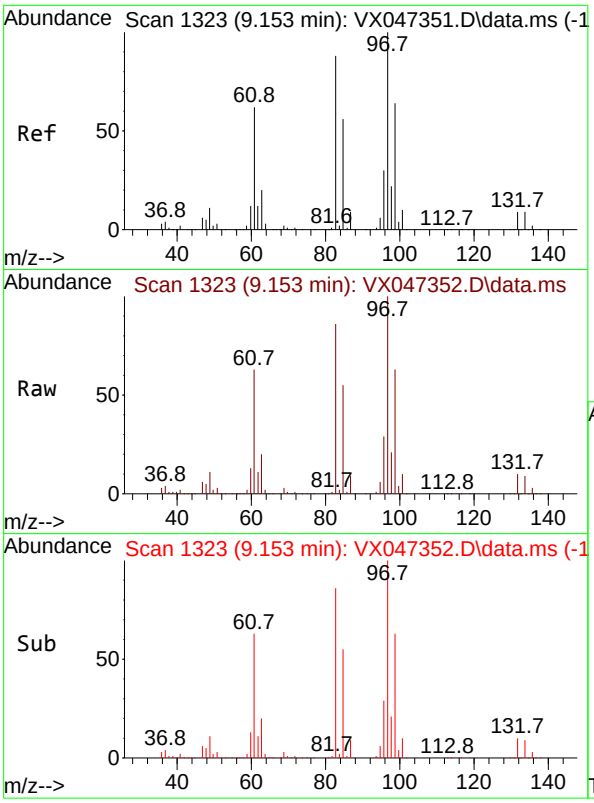


#54
cis-1,3-Dichloropropene
Concen: 103.698 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 75 Resp: 463640

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.6	38.4
39	51.2	40.9	61.3

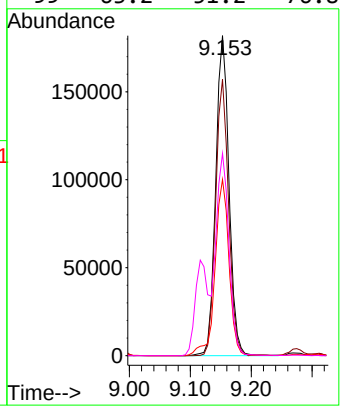




#55
1,1,2-Trichloroethane
Concen: 97.863 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 97 Resp: 27560

Ion	Ratio	Lower	Upper
97	100		
83	86.3	70.6	106.0
85	55.0	44.7	67.1
99	63.2	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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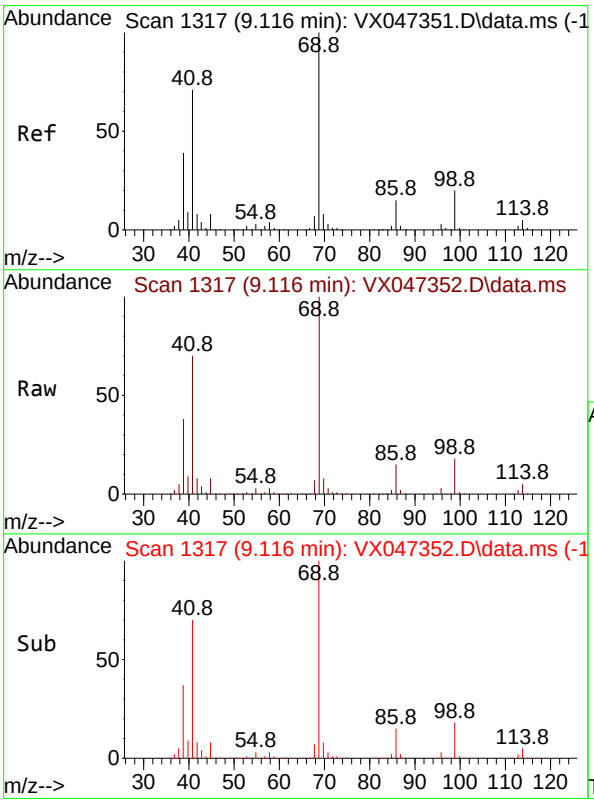
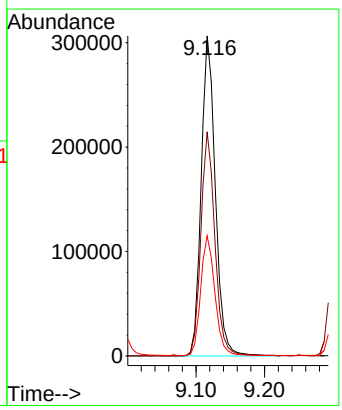
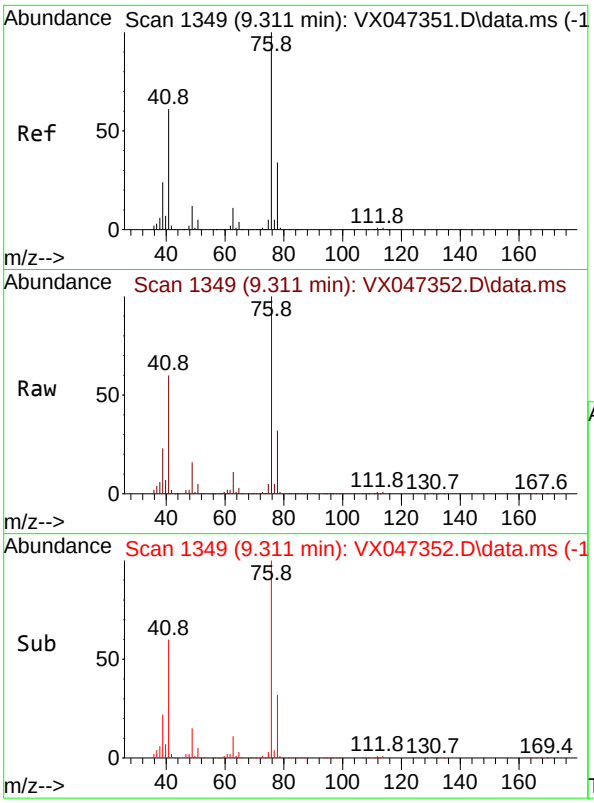


#56
Ethyl methacrylate
Concen: 106.154 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 69 Resp: 440765

Ion	Ratio	Lower	Upper
69	100		
41	69.4	55.3	82.9
39	37.6	30.2	45.2

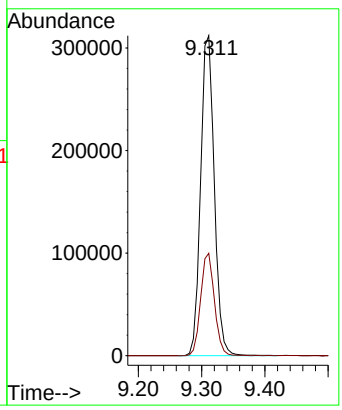




#57
1,3-Dichloropropane
Concen: 97.899 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 76 Resp: 46980

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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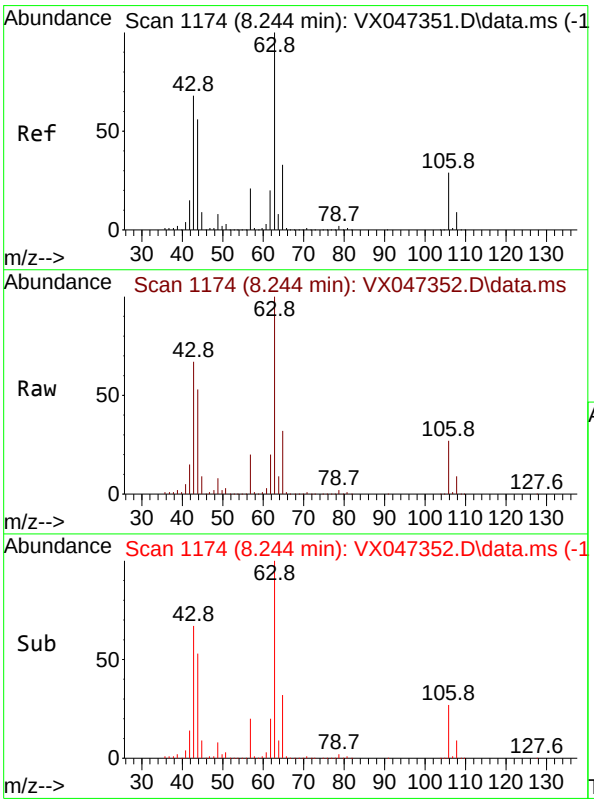
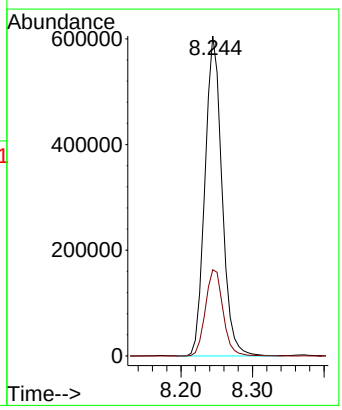
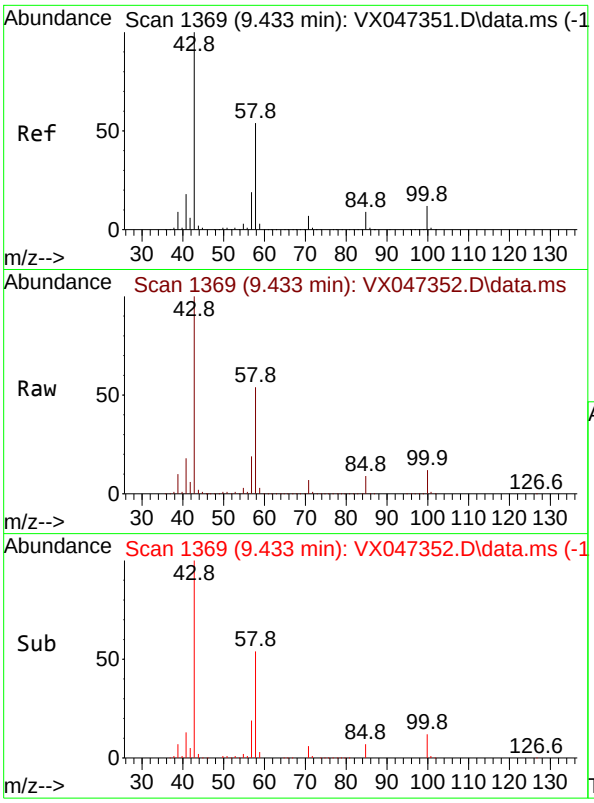


#58
2-Chloroethyl Vinyl ether
Concen: 496.016 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 63 Resp: 1000312

Ion	Ratio	Lower	Upper
63	100		
106	27.9	22.8	34.2

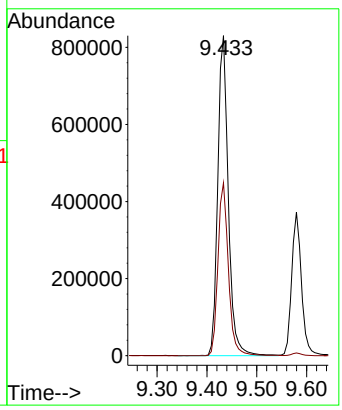




#59
2-Hexanone
Concen: 510.384 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 43 Resp: 121512

Ion	Ratio	Lower	Upper
43	100		
58	53.7	26.9	80.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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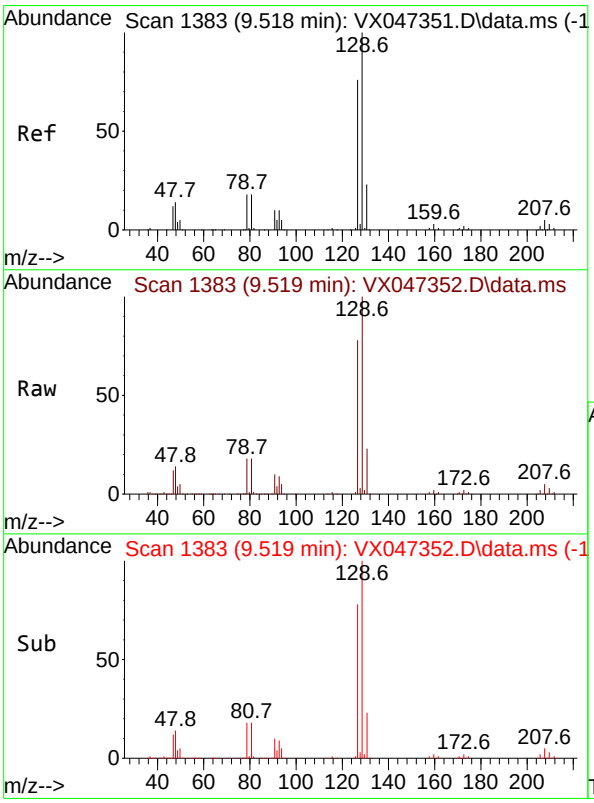
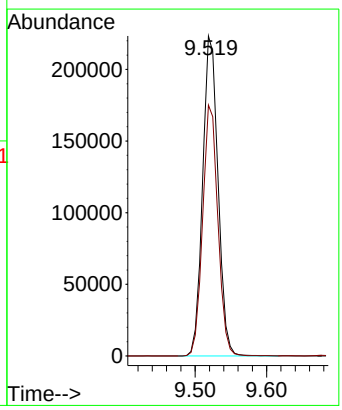
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

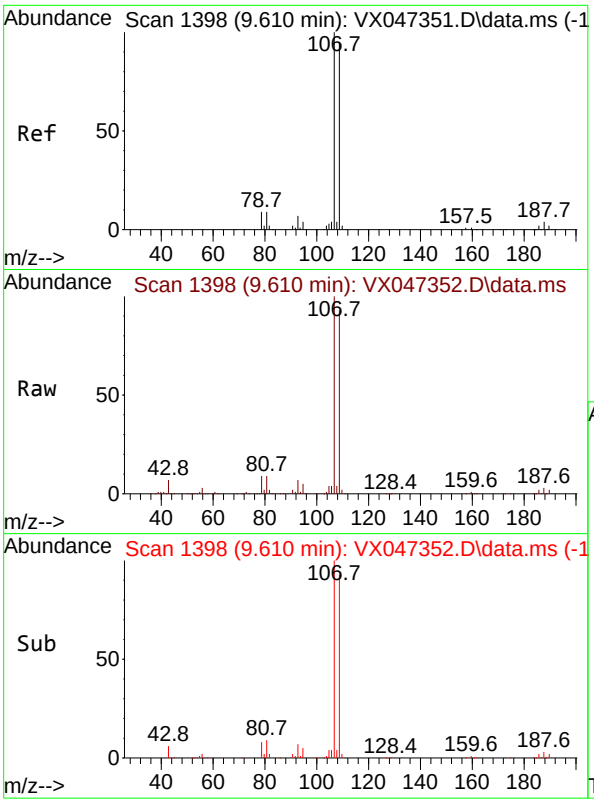


#60
Dibromochloromethane
Concen: 99.621 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:129 Resp: 333420

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.9	116.6

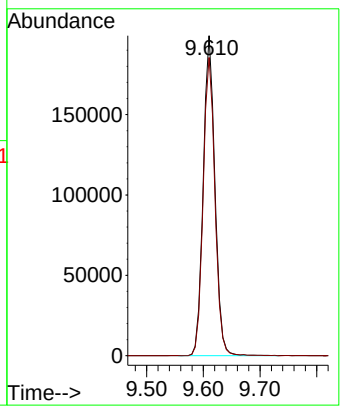




#61
1,2-Dibromoethane
Concen: 98.420 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:107 Resp: 28582

Ion	Ratio	Lower	Upper
107	100		
109	93.7	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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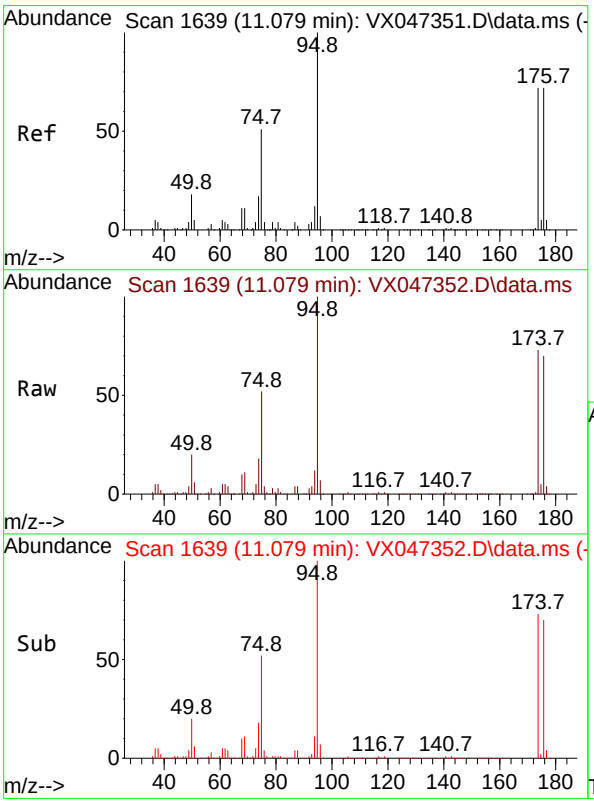
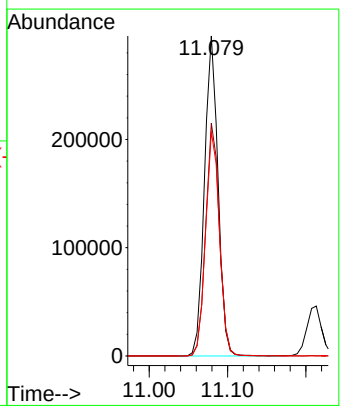
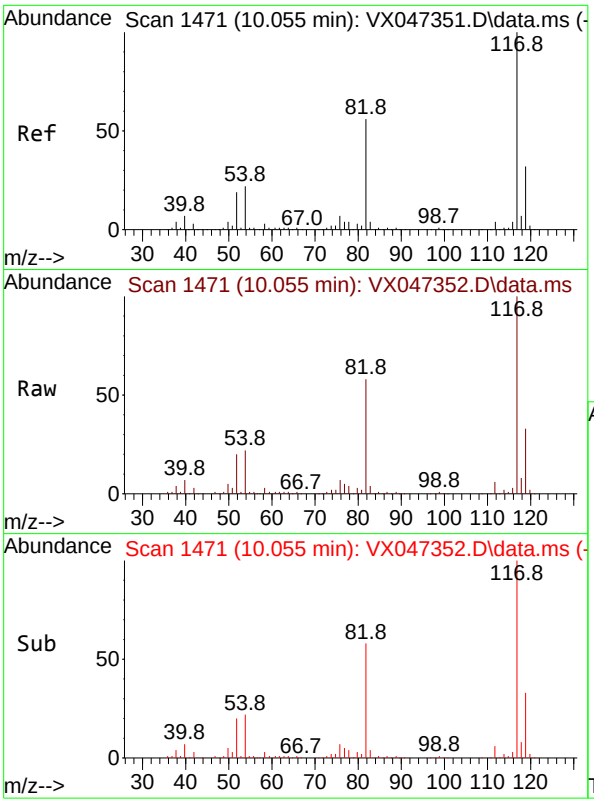


#62
4-Bromofluorobenzene
Concen: 105.546 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 95 Resp: 353668

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	148.0
176	71.9	0.0	145.4

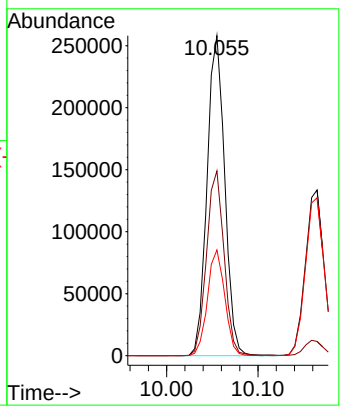




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:117 Resp: 34549

Ion	Ratio	Lower	Upper
117	100		
82	57.7	45.0	67.4
119	33.1	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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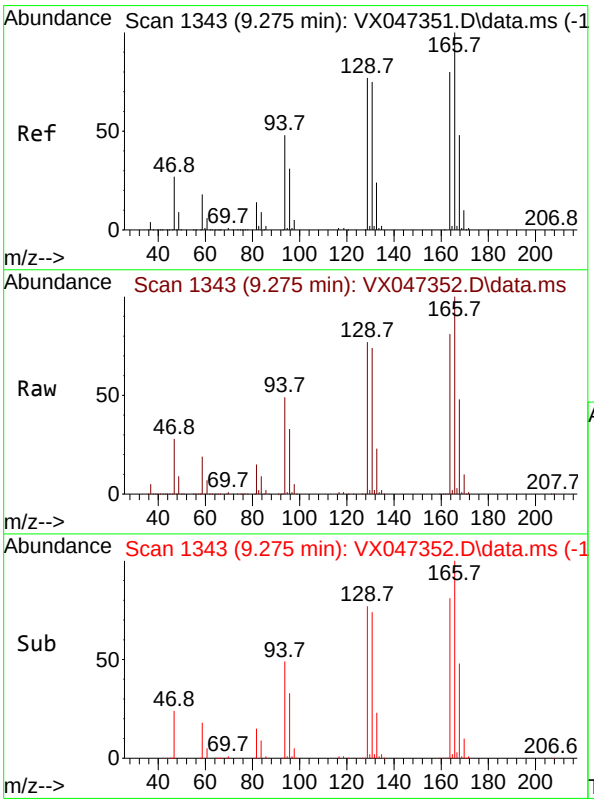
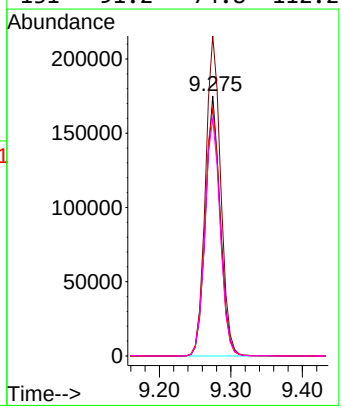
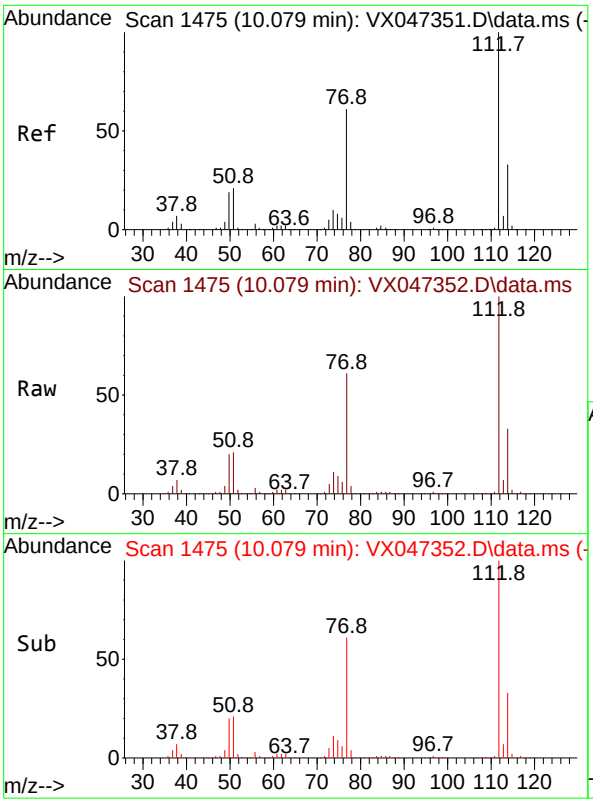


#64
Tetrachloroethene
Concen: 99.506 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:164 Resp: 248666

Ion	Ratio	Lower	Upper
164	100		
166	123.1	100.3	150.5
129	95.2	77.7	116.5
131	91.2	74.8	112.2

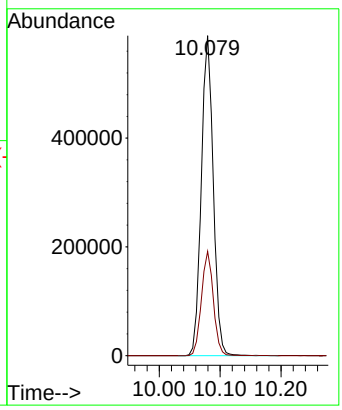




#65
Chlorobenzene
Concen: 97.887 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:112 Resp: 80367

Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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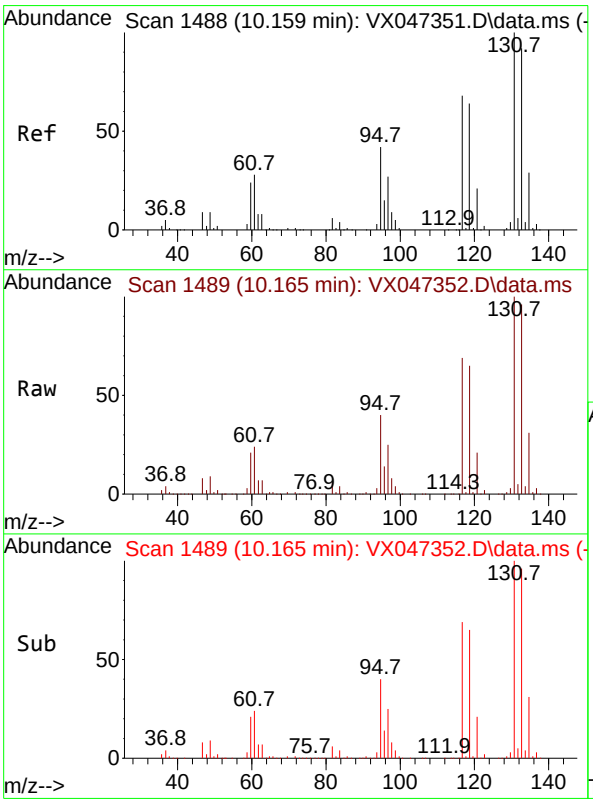
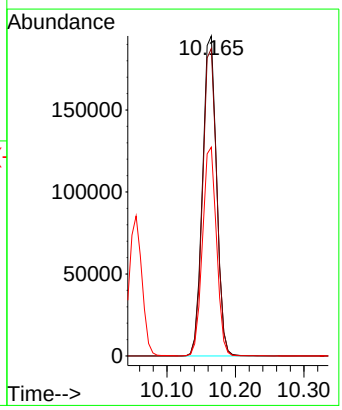
Supervised By :Mahesh Dadoda 08/19/2025

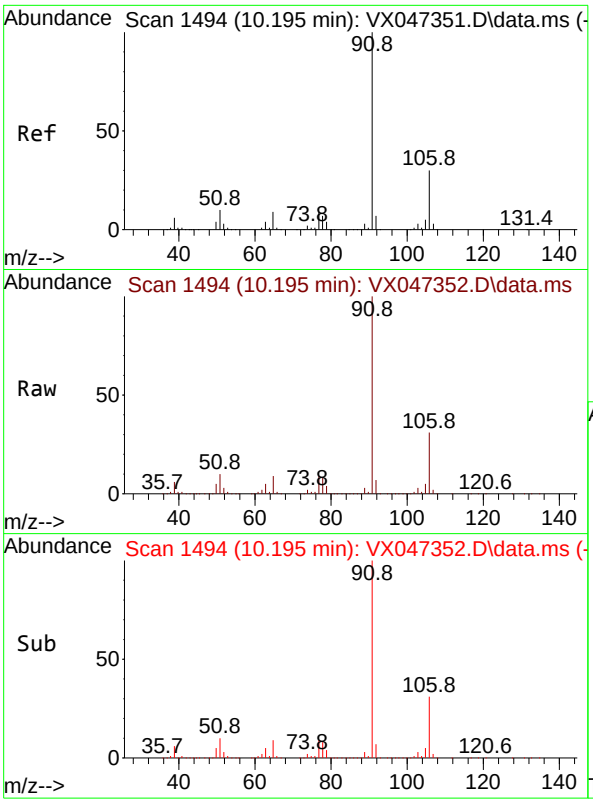


#66
1,1,1,2-Tetrachloroethane
Concen: 100.380 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:131 Resp: 278595

Ion	Ratio	Lower	Upper
131	100		
133	96.4	47.6	142.9
119	65.3	32.3	96.8

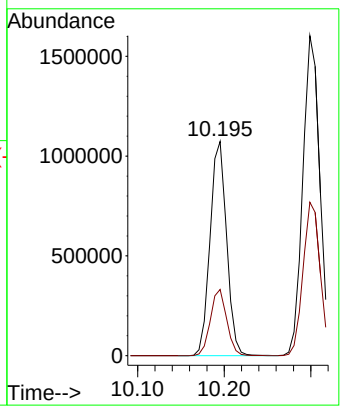




#67
Ethyl Benzene
Concen: 100.832 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 91 Resp: 142486

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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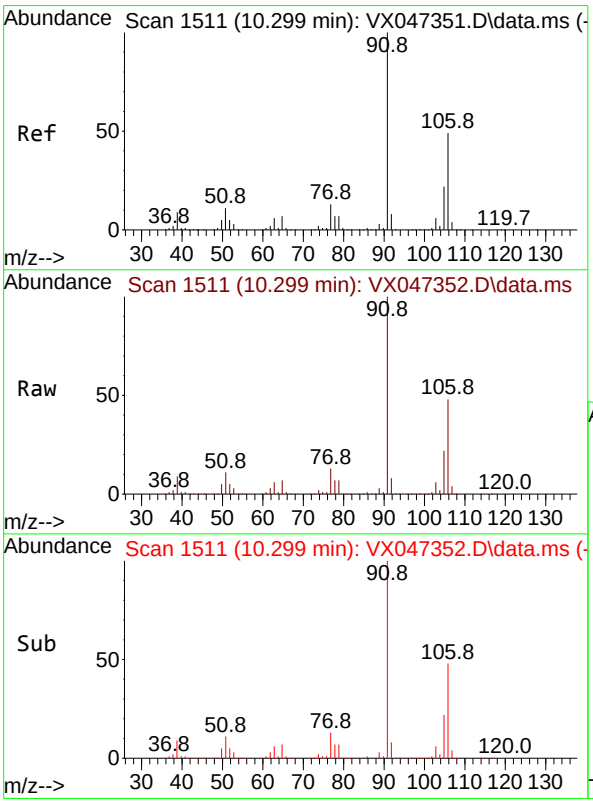
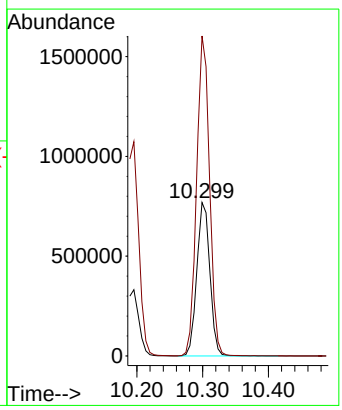
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

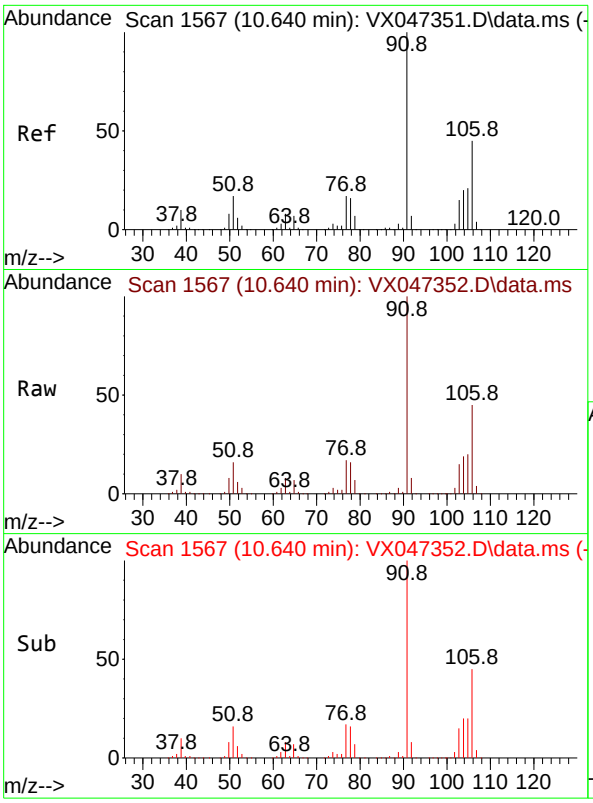


#68
m/p-Xylenes
Concen: 200.518 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:106 Resp: 1056553

Ion	Ratio	Lower	Upper
106	100		
91	207.5	164.7	247.1

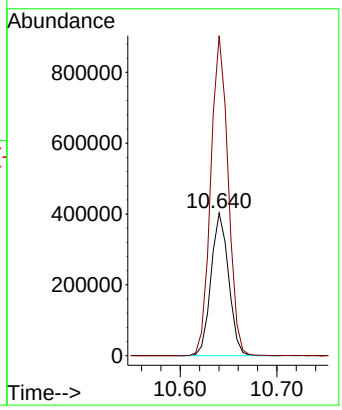




#69
o-Xylene
Concen: 100.188 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:106 Resp: 50802

Ion	Ratio	Lower	Upper
106	100		
91	222.6	110.6	331.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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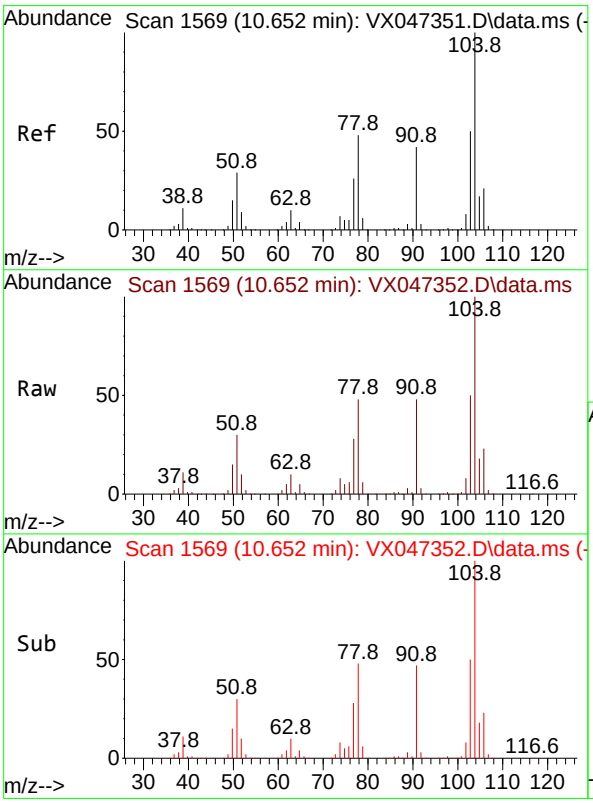
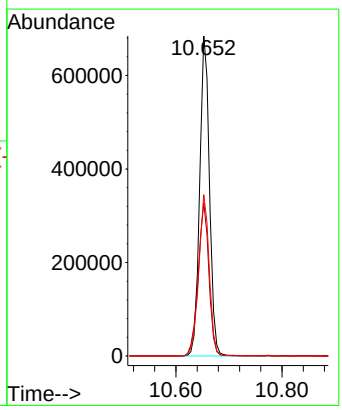
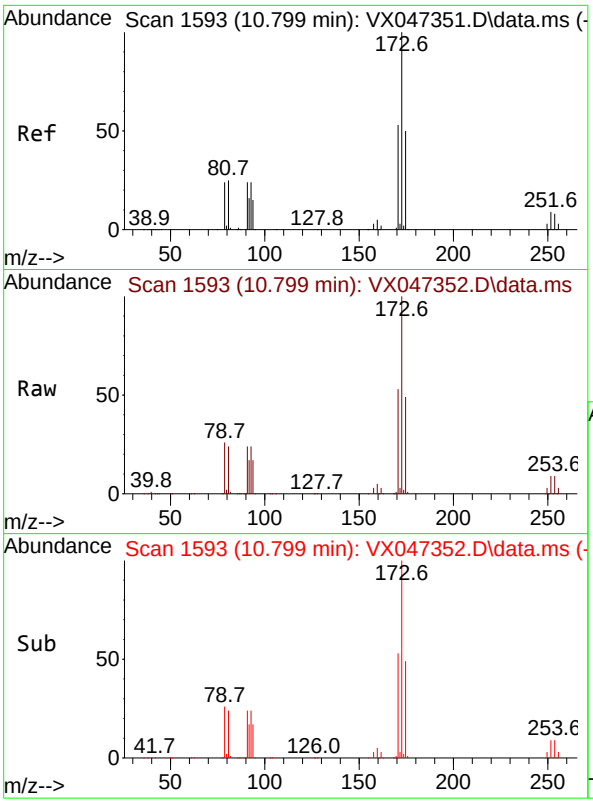


#70
Styrene
Concen: 102.509 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:104 Resp: 878271

Ion	Ratio	Lower	Upper
104	100		
78	52.5	41.8	62.8
103	54.2	43.6	65.4

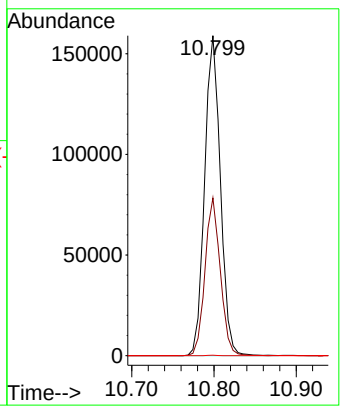




#71
Bromoform
Concen: 101.376 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:173 Resp: 21137

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.4	73.4
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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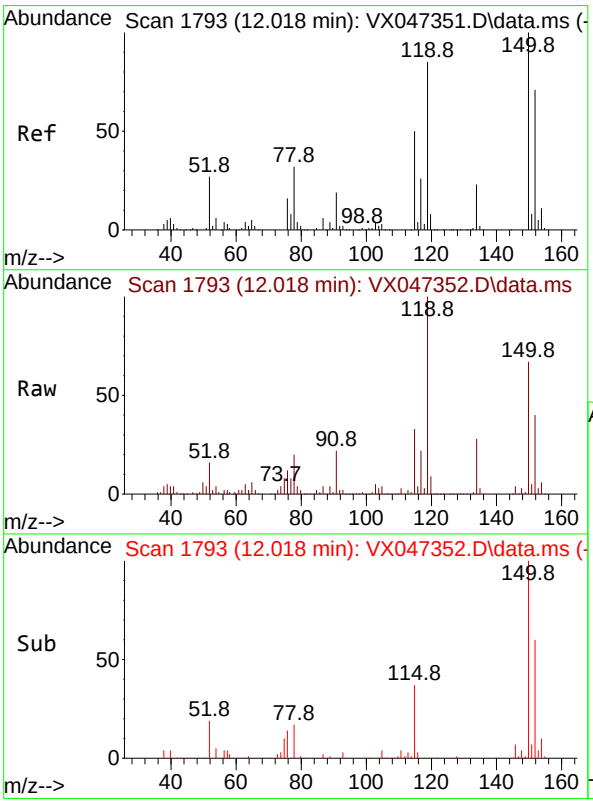
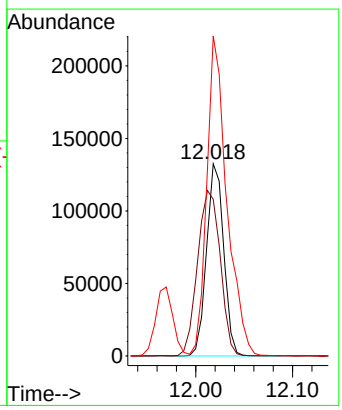
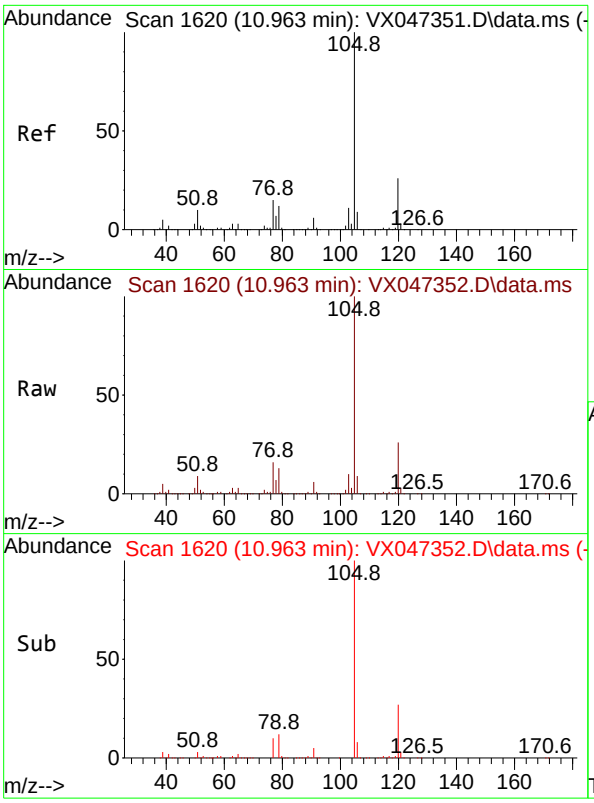


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:152 Resp: 163776

Ion	Ratio	Lower	Upper
152	100		
115	113.9	44.6	133.8
150	194.8	0.0	349.8

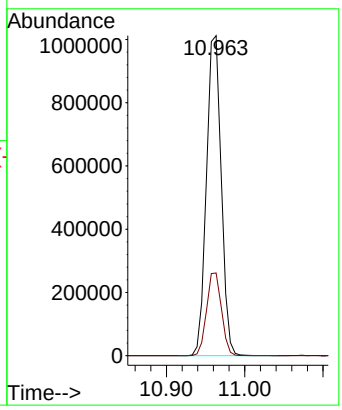




#73
Isopropylbenzene
Concen: 103.466 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:105 Resp: 132604

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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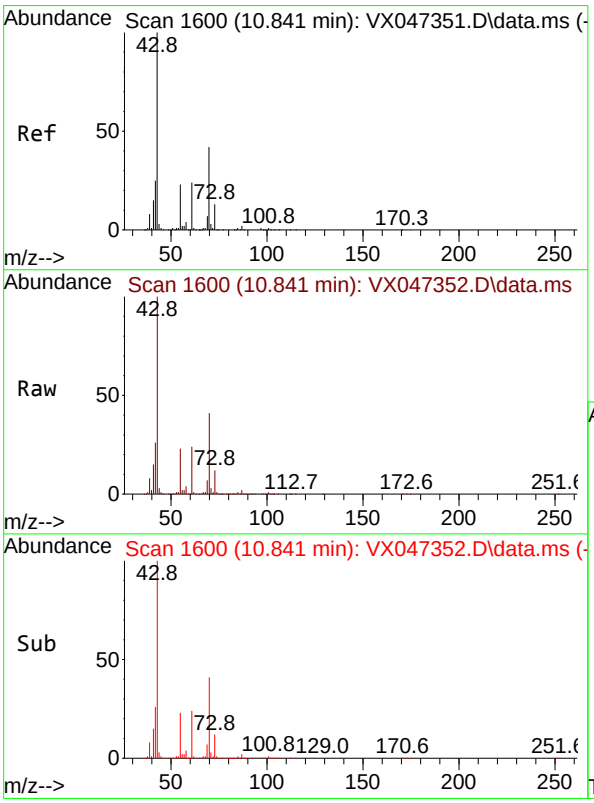
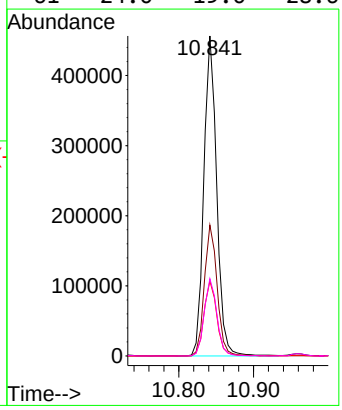
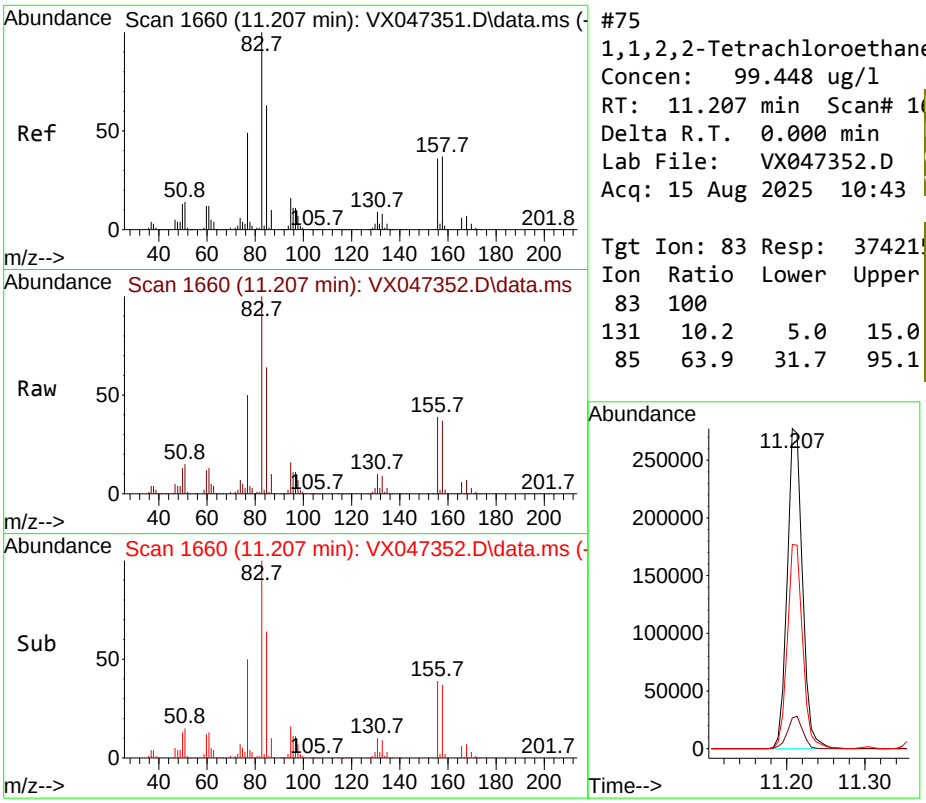


#74
N-amyl acetate
Concen: 111.573 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 43 Resp: 543008

Ion	Ratio	Lower	Upper
43	100		
70	40.9	33.1	49.7
55	23.6	19.0	28.6
61	24.0	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 99.448 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 83 Resp: 37421

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.0	15.0
85	63.9	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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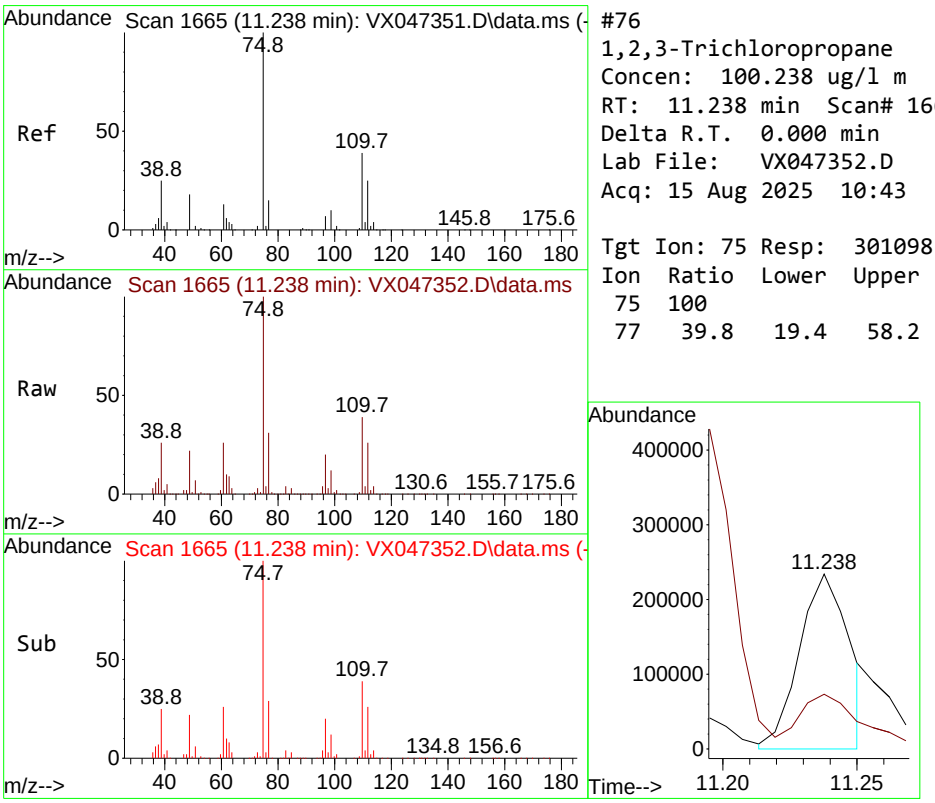
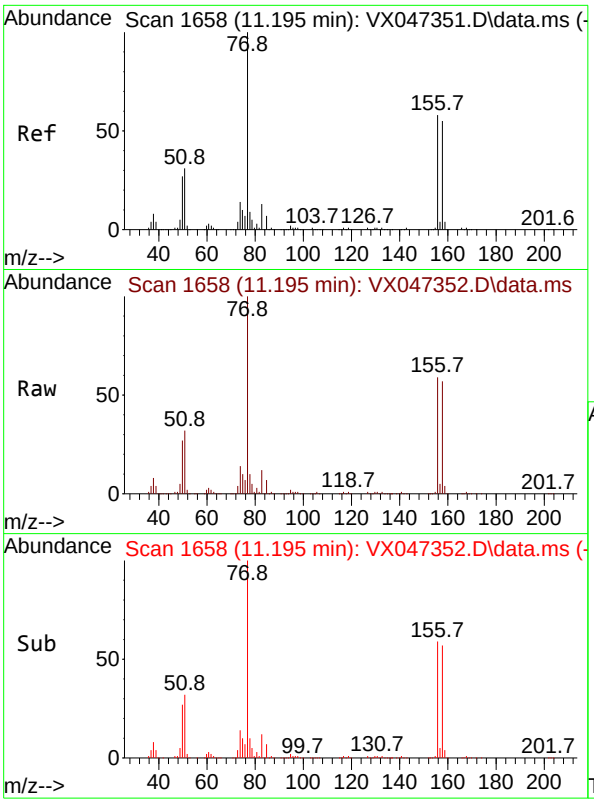


#76
1,2,3-Trichloropropane
Concen: 100.238 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 75 Resp: 301098

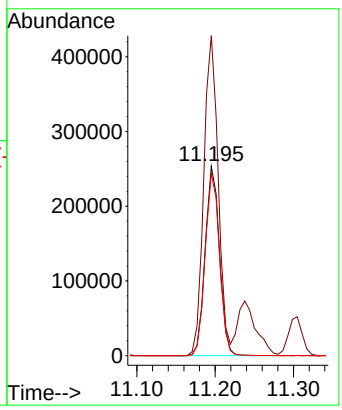
Ion	Ratio	Lower	Upper
75	100		
77	39.8	19.4	58.2



#77
Bromobenzene
Concen: 102.397 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:156 Resp: 32046

Ion	Ratio	Lower	Upper
156	100		
77	170.5	86.3	258.9
158	96.6	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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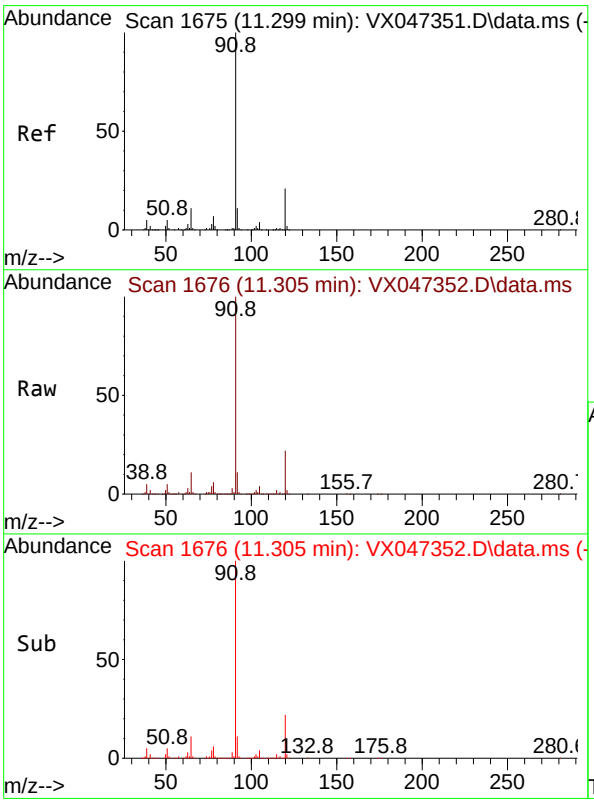
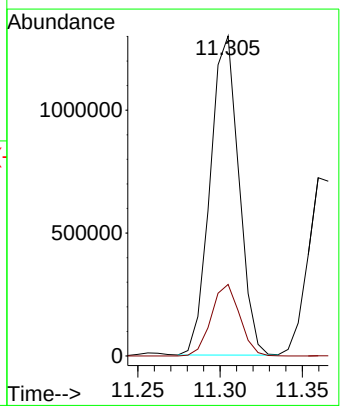
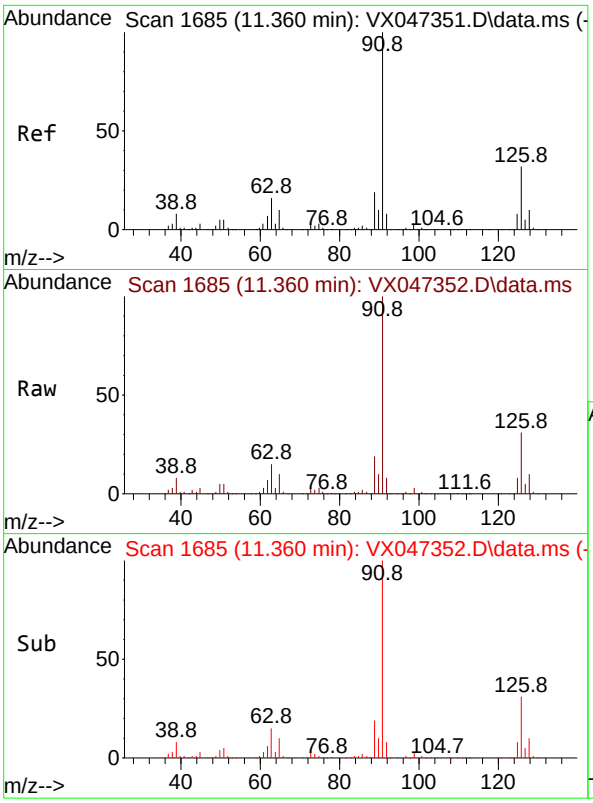


#78
n-propylbenzene
Concen: 103.081 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 91 Resp: 1577819

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0





#79
2-Chlorotoluene
Concen: 100.105 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 91 Resp: 92626

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.7	50.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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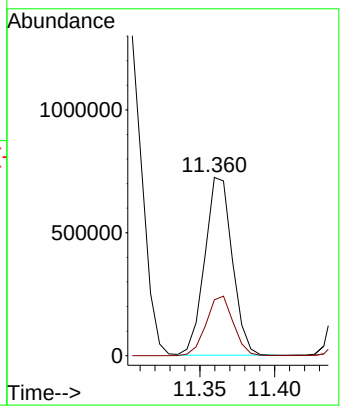
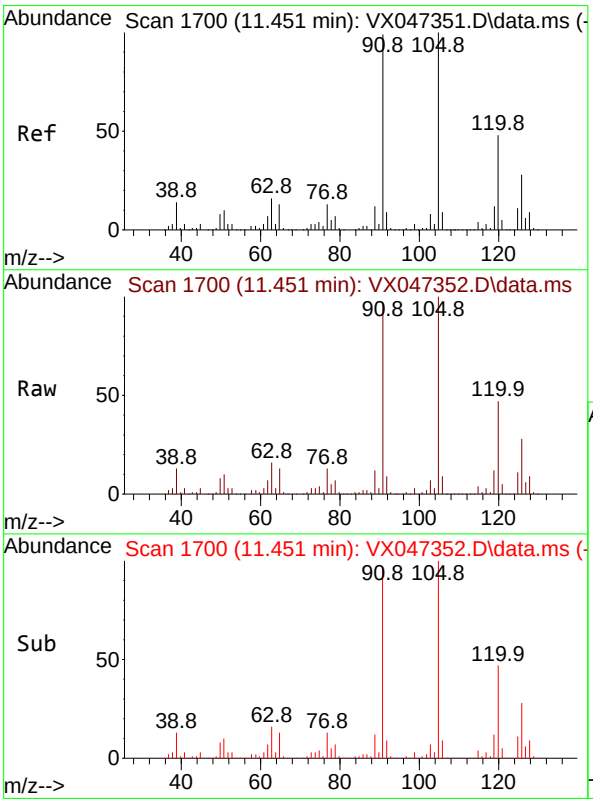
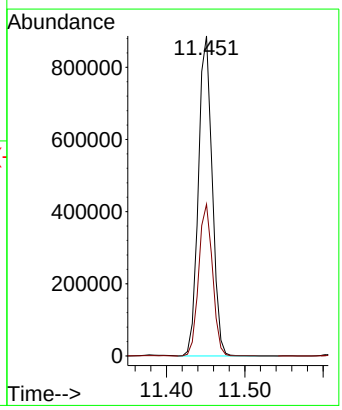


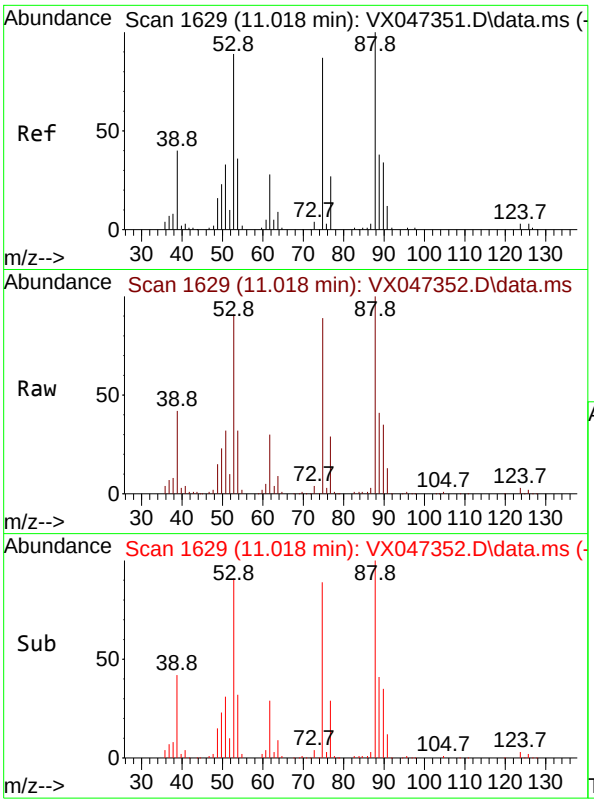


#80
1,3,5-Trimethylbenzene
Concen: 102.852 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:105 Resp: 1084580

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.9	71.7

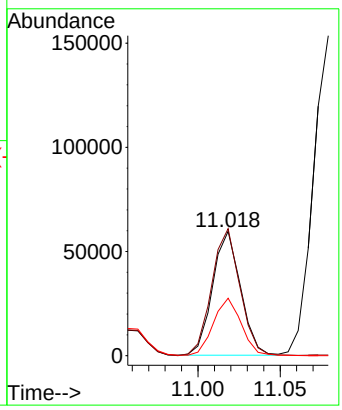




#81
trans-1,4-Dichloro-2-butene
Concen: 93.696 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 75 Resp: 7038

Ion	Ratio	Lower	Upper
75	100		
53	103.8	85.2	127.8
89	46.5	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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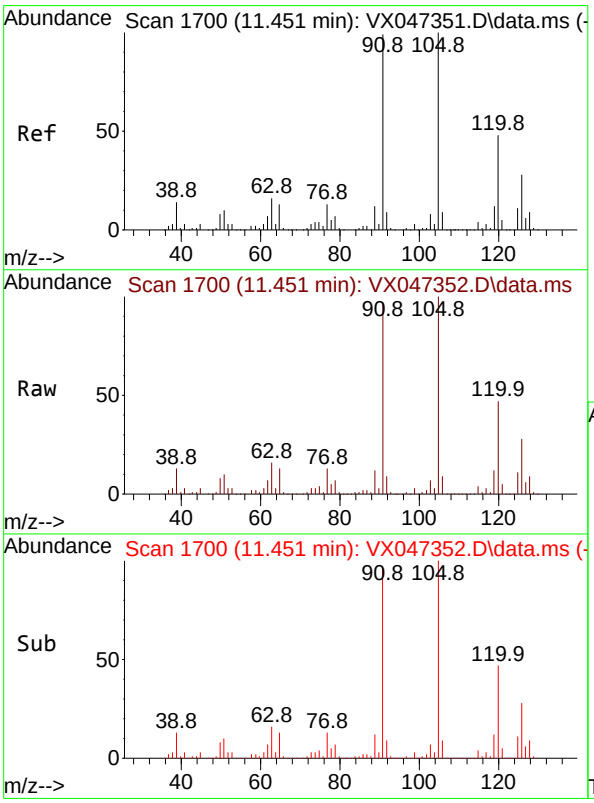
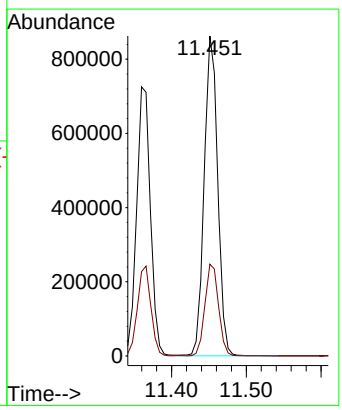
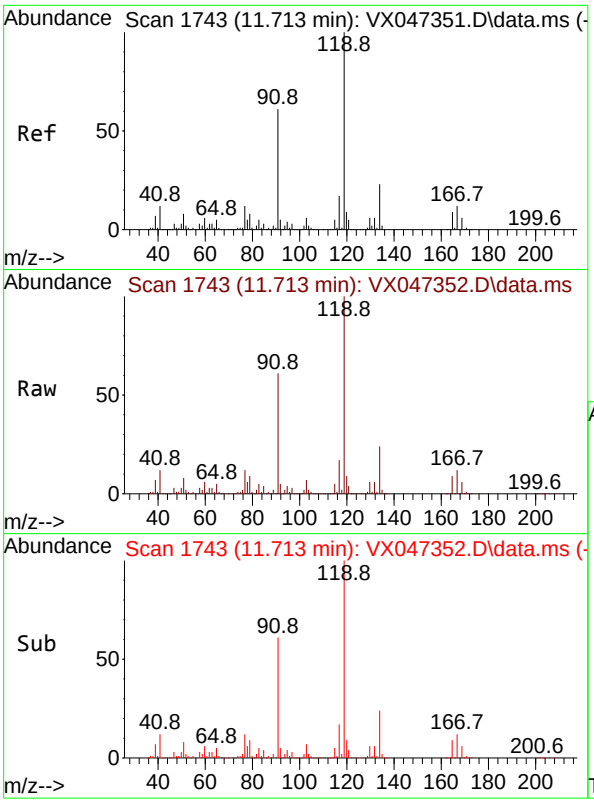


#82
4-Chlorotoluene
Concen: 99.058 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 91 Resp: 1080450

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.4	43.0

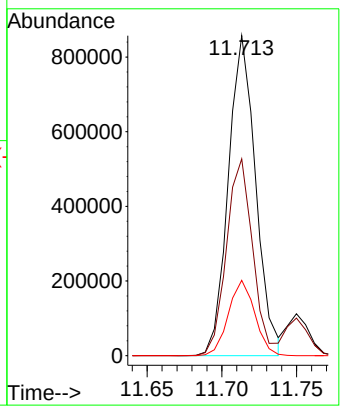




#83
tert-Butylbenzene
Concen: 103.803 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:119 Resp: 109205

Ion	Ratio	Lower	Upper
119	100		
91	59.5	29.1	87.4
134	22.8	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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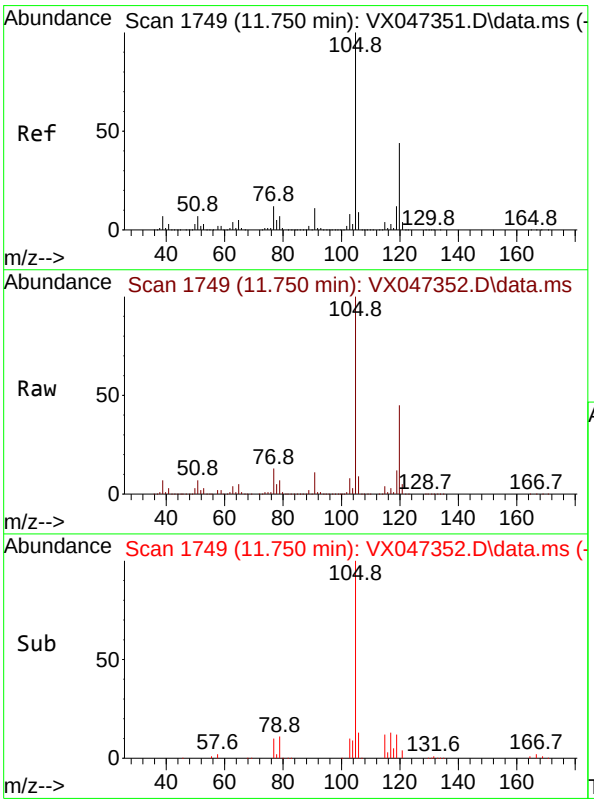
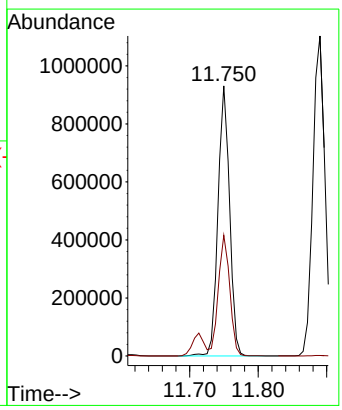
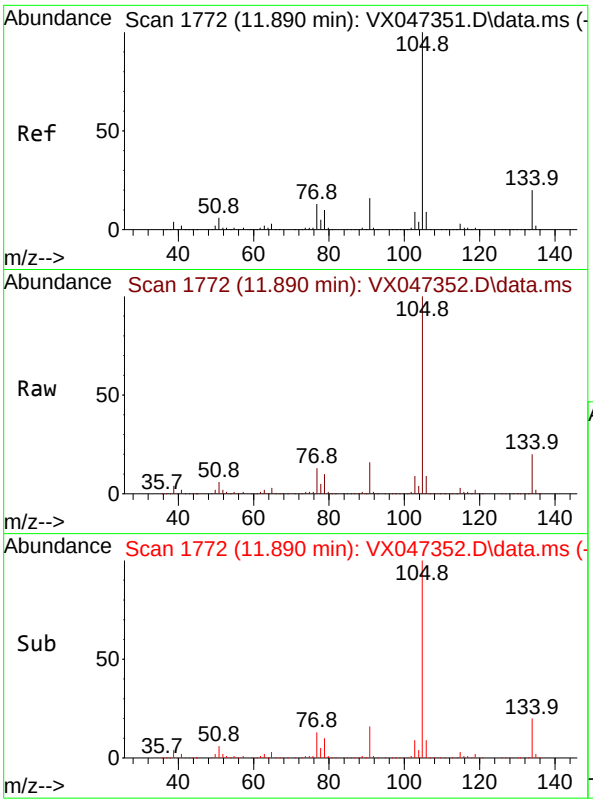


#84
1,2,4-Trimethylbenzene
Concen: 103.064 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:105 Resp: 1086843

Ion	Ratio	Lower	Upper
105	100		
120	44.4	21.9	65.7

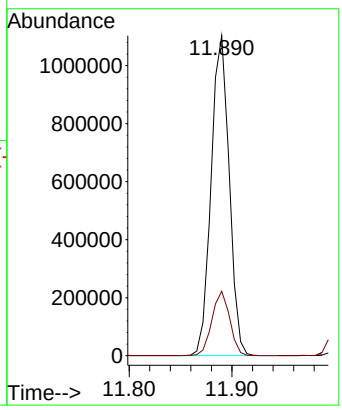




#85
sec-Butylbenzene
Concen: 103.010 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:105 Resp: 134322

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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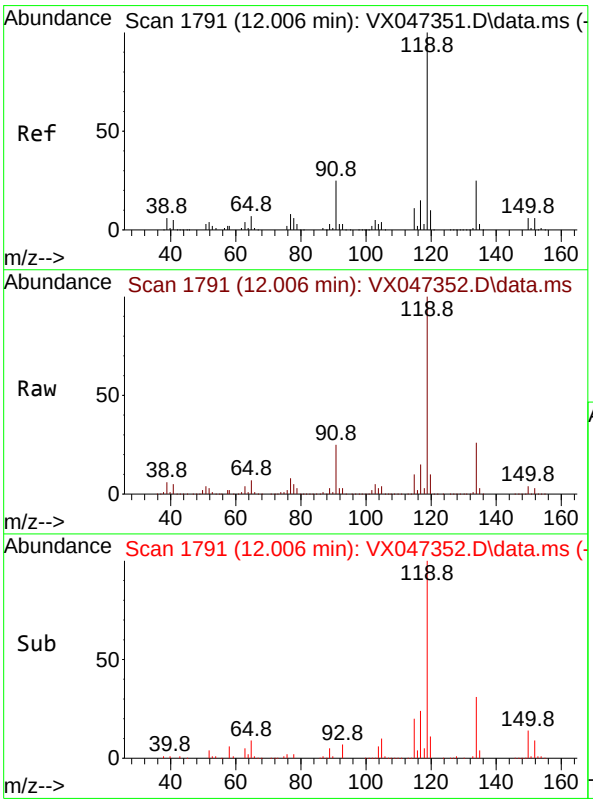
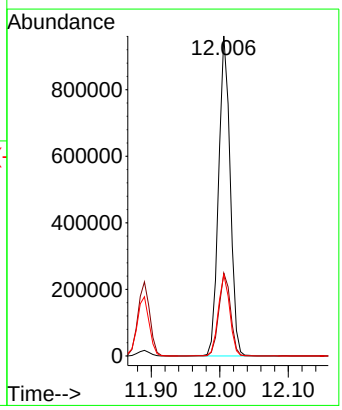
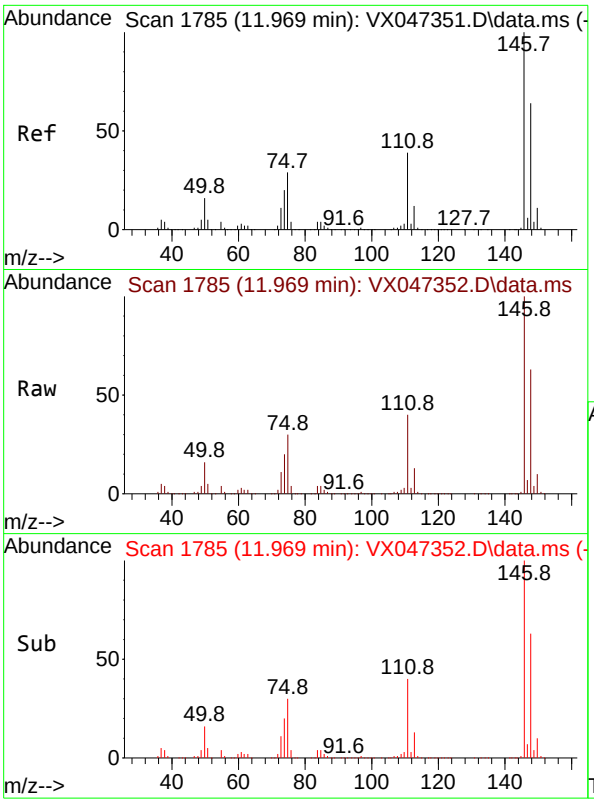


#86
p-Isopropyltoluene
Concen: 101.405 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:119 Resp: 1118938

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.8	38.4
91	25.2	12.4	37.4

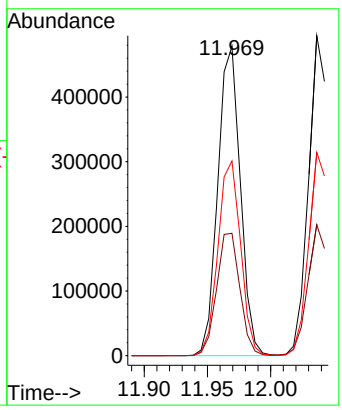




#87
1,3-Dichlorobenzene
Concen: 99.223 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:146 Resp: 59323

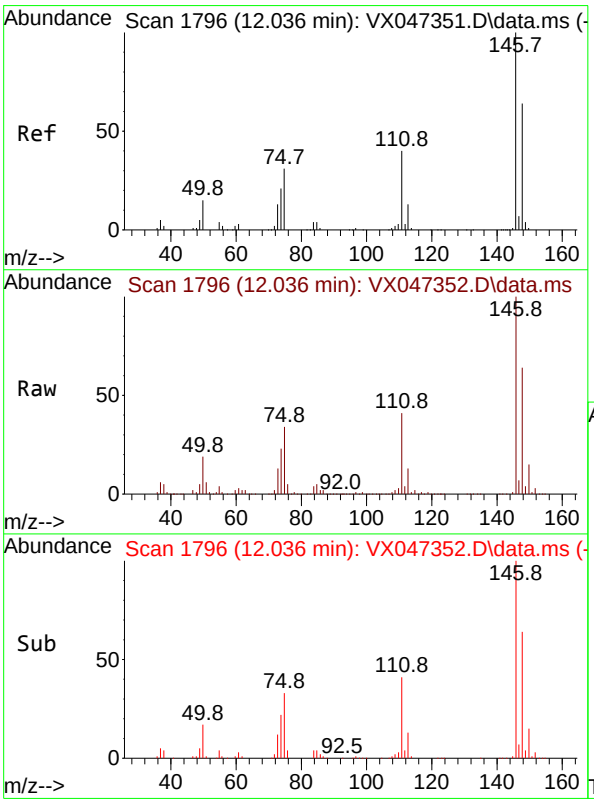
Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.6	61.8
148	63.4	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

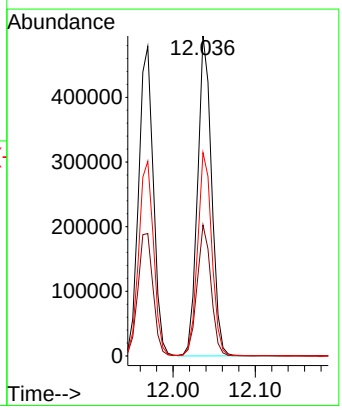
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

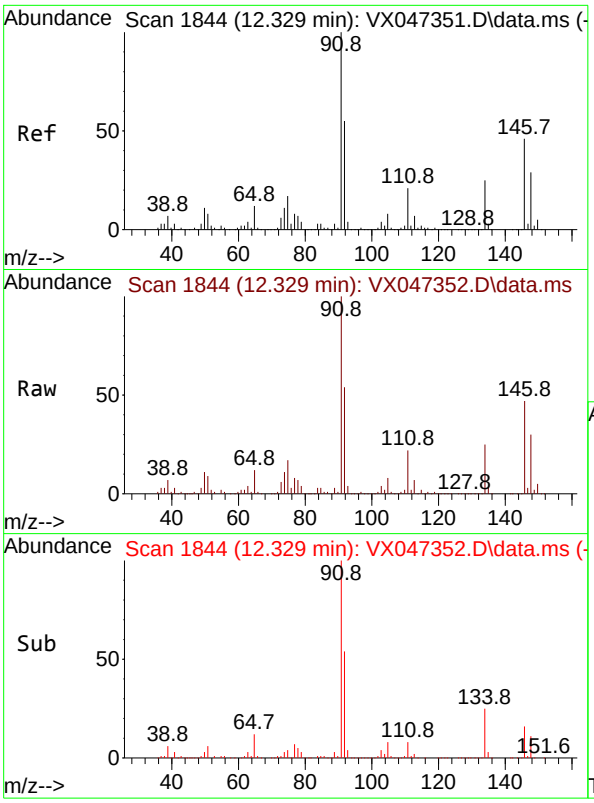


#88
1,4-Dichlorobenzene
Concen: 95.231 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:146 Resp: 585597

Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.4	61.2
148	64.2	31.7	95.1

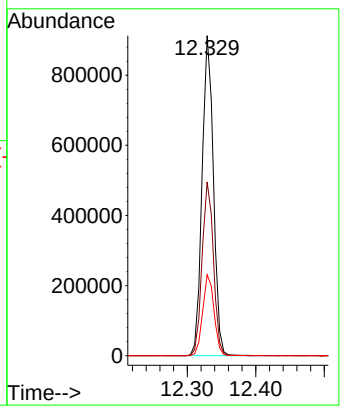




#89
n-Butylbenzene
Concen: 102.394 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 91 Resp: 105089

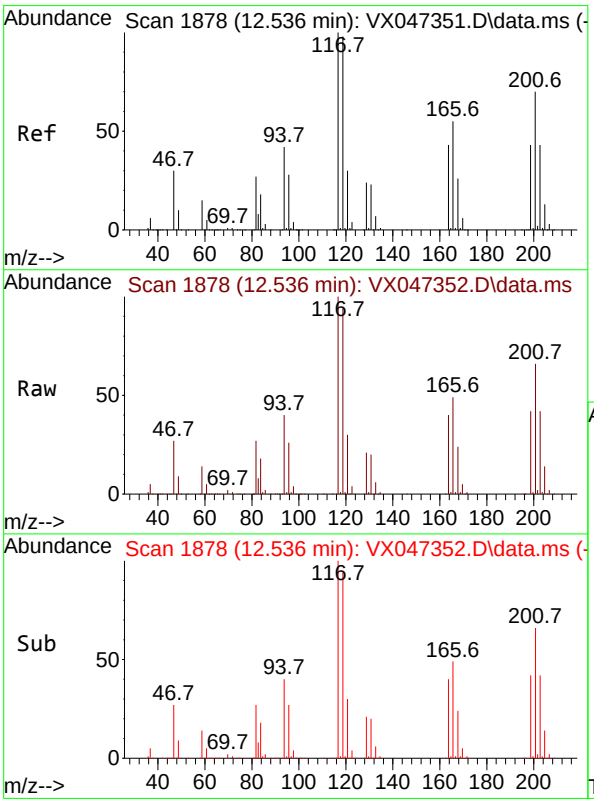
Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.2	81.5
134	25.4	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

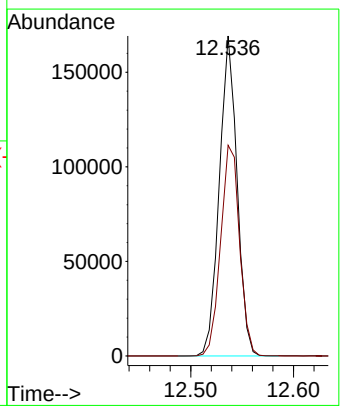
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

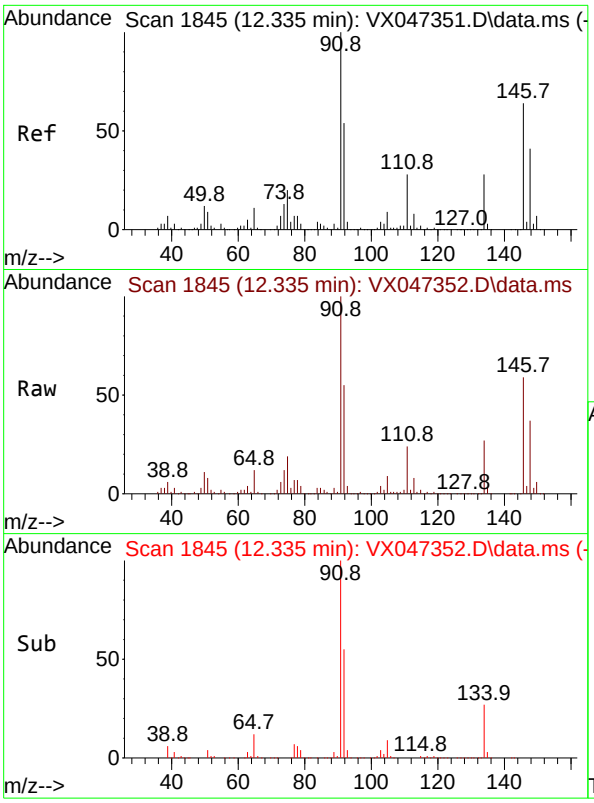


#90
Hexachloroethane
Concen: 104.570 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:117 Resp: 202423

Ion	Ratio	Lower	Upper
117	100		
201	70.5	35.1	105.3

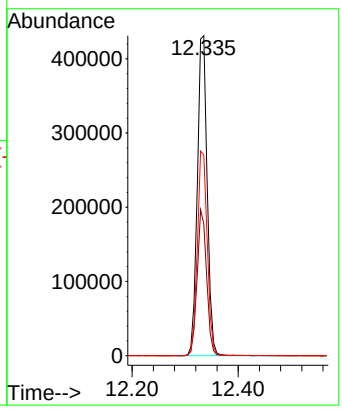




#91
1,2-Dichlorobenzene
Concen: 98.430 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:146 Resp: 55858

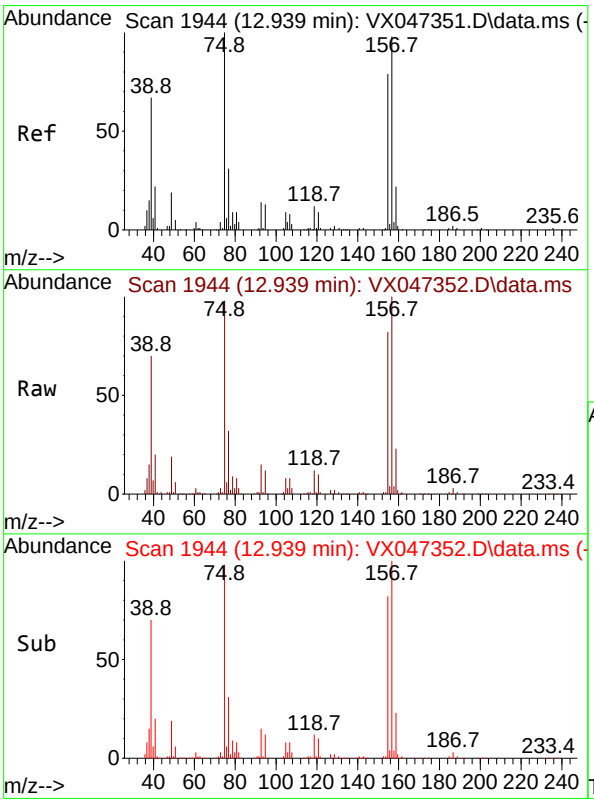
Ion	Ratio	Lower	Upper
146	100		
111	43.7	22.1	66.1
148	64.1	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

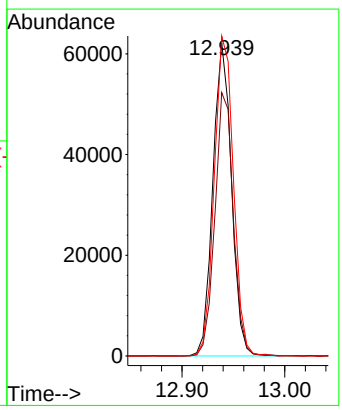
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

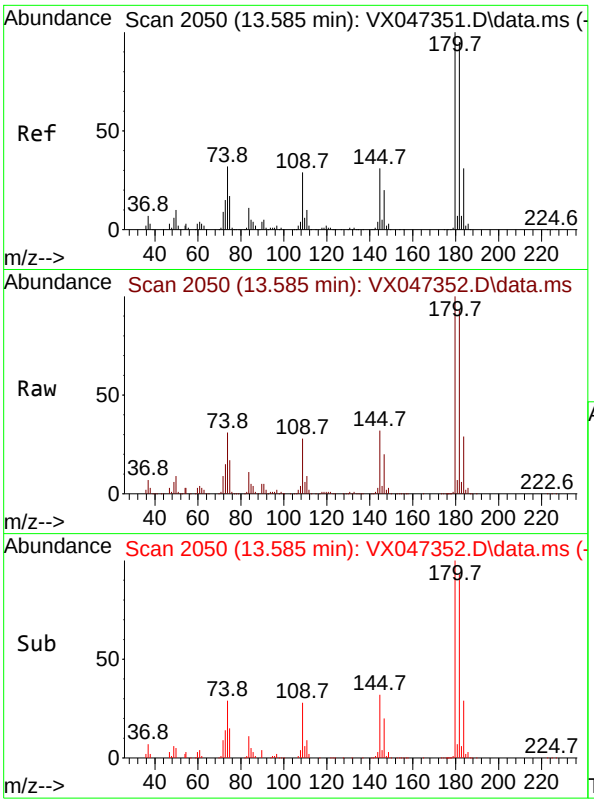


#92
1,2-Dibromo-3-Chloropropane
Concen: 107.101 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 75 Resp: 77939

Ion	Ratio	Lower	Upper
75	100		
155	83.5	41.3	123.7
157	105.3	51.5	154.5

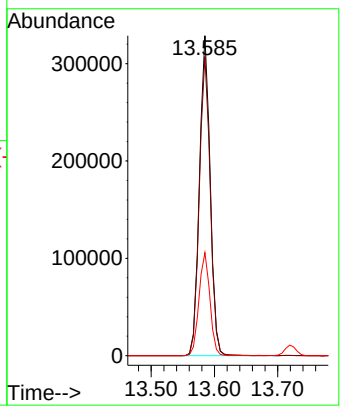




#93
1,2,4-Trichlorobenzene
Concen: 102.504 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:180 Resp: 38996

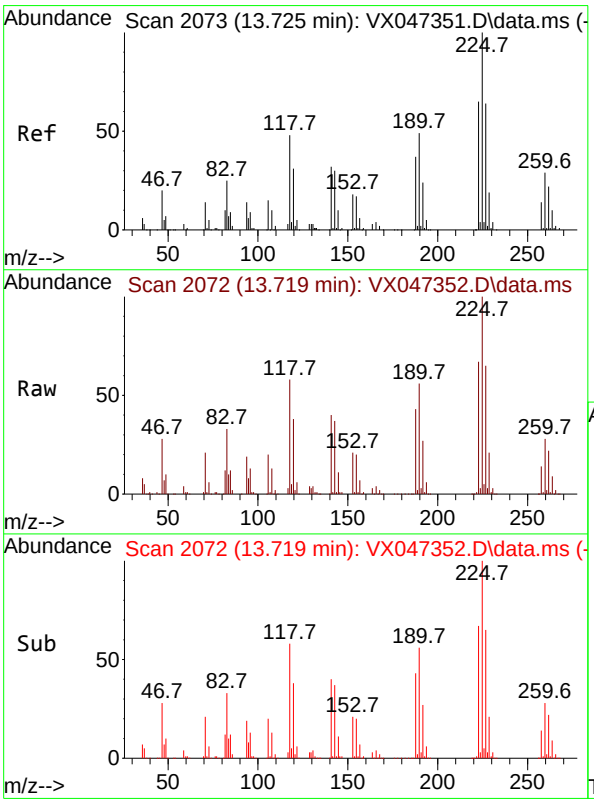
Ion	Ratio	Lower	Upper
180	100		
182	94.4	48.1	144.4
145	32.7	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

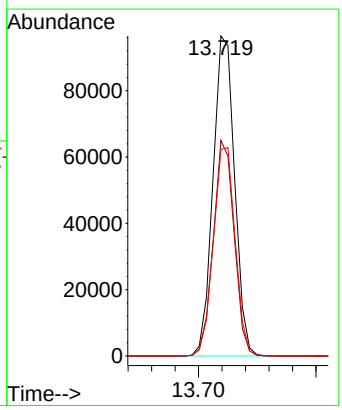
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

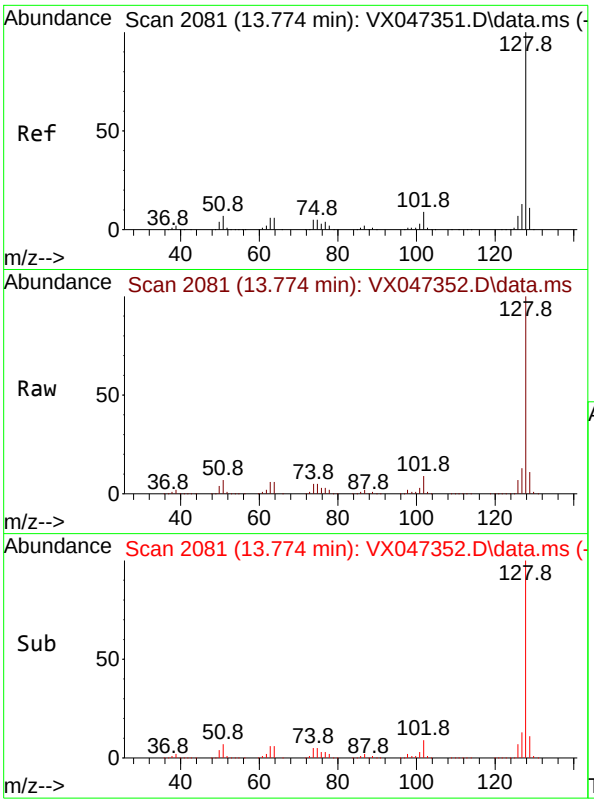


#94
Hexachlorobutadiene
Concen: 91.042 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:225 Resp: 123286

Ion	Ratio	Lower	Upper
225	100		
223	65.1	32.2	96.6
227	65.8	31.6	95.0

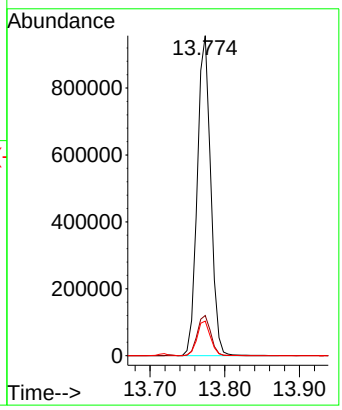




#95
Naphthalene
Concen: 109.632 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:128 Resp: 119191

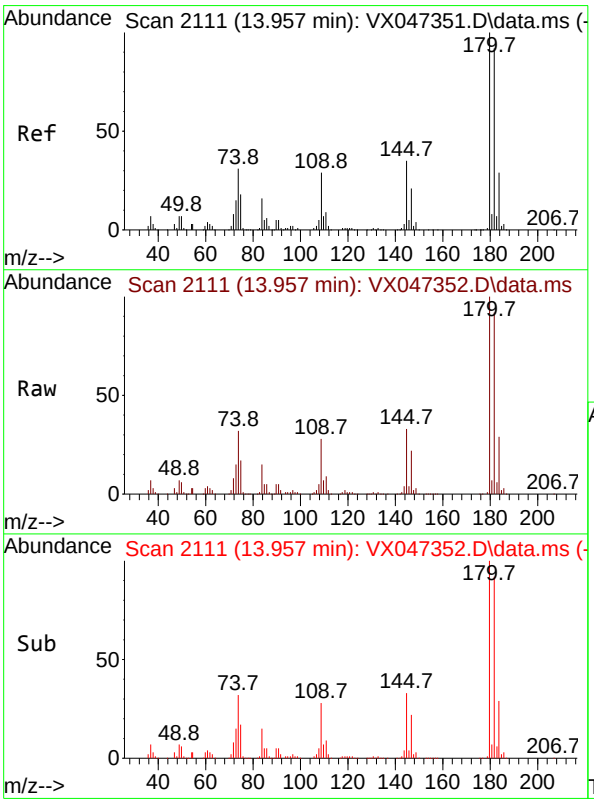
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	10.8	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

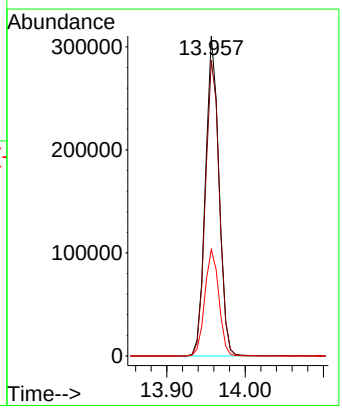
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 103.395 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:180 Resp: 370778

Ion	Ratio	Lower	Upper
180	100		
182	95.2	48.0	144.2
145	34.4	17.4	52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047353.D
Acq On : 15 Aug 2025 11:05
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 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:55:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	218039	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	378315	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	330090	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	153878	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	498398	163.328	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 326.660%#			
35) Dibromofluoromethane	5.397	113	396260	161.390	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 322.780%#			
50) Toluene-d8	8.653	98	1397755	159.272	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 318.540%#			
62) 4-Bromofluorobenzene	11.079	95	508844	157.125	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 314.240%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	445045	160.118	ug/l	98
3) Chloromethane	1.313	50	388526	155.385	ug/l	97
4) Vinyl Chloride	1.392	62	494933	157.702	ug/l	97
5) Bromomethane	1.618	94	170864	134.788	ug/l	100
6) Chloroethane	1.703	64	276042	143.758	ug/l	97
7) Trichlorofluoromethane	1.904	101	699331	150.647	ug/l	98
8) Diethyl Ether	2.148	74	251983	154.158	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.349	101	416485	154.664	ug/l	99
10) Methyl Iodide	2.471	142	794834	172.239	ug/l	98
11) Tert butyl alcohol	2.977	59	206679	778.553	ug/l	100
12) 1,1-Dichloroethene	2.337	96	425622	155.037	ug/l	99
13) Acrolein	2.252	56	429798	766.968	ug/l	100
14) Allyl chloride	2.678	41	735481	154.247	ug/l	99
15) Acrylonitrile	3.087	53	991254	772.742	ug/l	100
16) Acetone	2.392	43	784600	684.039	ug/l	99
17) Carbon Disulfide	2.532	76	1212975	146.420	ug/l	100
18) Methyl Acetate	2.715	43	476497	160.309	ug/l	99
19) Methyl tert-butyl Ether	3.130	73	1317168	157.713	ug/l	100
20) Methylene Chloride	2.806	84	447216	147.242	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	434634	149.166	ug/l	98
22) Diisopropyl ether	3.776	45	1429793	151.699	ug/l	99
23) Vinyl Acetate	3.733	43	6020474	779.316	ug/l	100
24) 1,1-Dichloroethane	3.623	63	809793	152.005	ug/l	99
25) 2-Butanone	4.568	43	1122803	747.433	ug/l	98
26) 2,2-Dichloropropane	4.495	77	627662	156.100	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	509580	150.154	ug/l	99
28) Bromochloromethane	4.916	49	343257	154.839	ug/l	100
29) Tetrahydrofuran	5.019	42	717541	739.017	ug/l	97
30) Chloroform	5.105	83	812939	149.521	ug/l	99
31) Cyclohexane	5.483	56	727704	148.180	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	723635	154.630	ug/l	99
36) 1,1-Dichloropropene	5.702	75	570157	147.104	ug/l	99
37) Ethyl Acetate	4.727	43	593362	147.465	ug/l	97
38) Carbon Tetrachloride	5.690	117	628733	148.444	ug/l	98
39) Methylcyclohexane	7.385	83	729123	150.814	ug/l	97
40) Benzene	6.050	78	1706889	147.130	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047353.D
Acq On : 15 Aug 2025 11:05
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 02:55:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	262323	154.600	ug/l		98
42) 1,2-Dichloroethane	6.098	62	599255	145.829	ug/l		100
43) Isopropyl Acetate	6.348	43	910348	157.486	ug/l		100
44) Trichloroethene	7.129	130	443361	149.252	ug/l		98
45) 1,2-Dichloropropane	7.434	63	433512	149.161	ug/l		99
46) Dibromomethane	7.586	93	312886	148.288	ug/l		99
47) Bromodichloromethane	7.824	83	650767	148.773	ug/l		99
48) Methyl methacrylate	7.696	41	473316	157.749	ug/l		99
49) 1,4-Dioxane	7.677	88	88481	3105.263	ug/l		97
51) 4-Methyl-2-Pentanone	8.580	43	2521407	757.992	ug/l		100
52) Toluene	8.720	92	1052008	146.750	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	624499	163.583	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	682860	158.029	ug/l		100
55) 1,1,2-Trichloroethane	9.153	97	394302	144.868	ug/l		97
56) Ethyl methacrylate	9.116	69	646154	161.020	ug/l		99
57) 1,3-Dichloropropane	9.311	76	672087	144.911	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	1468000	748.853	ug/l		99
59) 2-Hexanone	9.433	43	1737616	755.168	ug/l		100
60) Dibromochloromethane	9.525	129	476650	147.358	ug/l		99
61) 1,2-Dibromoethane	9.610	107	410057	146.099	ug/l		99
64) Tetrachloroethene	9.275	164	356989	149.518	ug/l		99
65) Chlorobenzene	10.079	112	1163848	148.370	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.165	131	405123	152.780	ug/l		100
67) Ethyl Benzene	10.195	91	2036272	150.823	ug/l		99
68) m/p-Xylenes	10.299	106	1502542	298.466	ug/l		99
69) o-Xylene	10.640	106	725154	149.683	ug/l		100
70) Styrene	10.653	104	1253652	153.150	ug/l		99
71) Bromoform	10.799	173	309626	155.427	ug/l	#	99
73) Isopropylbenzene	10.963	105	1883521	156.417	ug/l		99
74) N-amyl acetate	10.842	43	790124	172.791	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	531651	150.375	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	425332m	150.704	ug/l		
77) Bromobenzene	11.195	156	451000	153.378	ug/l		99
78) n-propylbenzene	11.305	91	2235938	155.473	ug/l		99
79) 2-Chlorotoluene	11.366	91	1306418	150.272	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	1536791	155.110	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	113338	154.967	ug/l		97
82) 4-Chlorotoluene	11.451	91	1541070	150.376	ug/l		100
83) tert-Butylbenzene	11.713	119	1542621	156.062	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	1535261	154.952	ug/l		99
85) sec-Butylbenzene	11.890	105	1912224	156.078	ug/l		100
86) p-Isopropyltoluene	12.006	119	1601345	154.459	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	841394	149.783	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	837395	144.939	ug/l		100
89) n-Butylbenzene	12.329	91	1489473	154.462	ug/l		100
90) Hexachloroethane	12.536	117	303295	166.757	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	798192	149.701	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	115101	168.342	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	555658	155.453	ug/l		100
94) Hexachlorobutadiene	13.725	225	176870	139.013	ug/l		98
95) Naphthalene	13.774	128	1715681	167.959	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	535287	158.872	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047353.D
Acq On : 15 Aug 2025 11:05
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 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:55:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 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\VX081525\
Data File : VX047353.D
Acq On : 15 Aug 2025 11:05
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 02:55:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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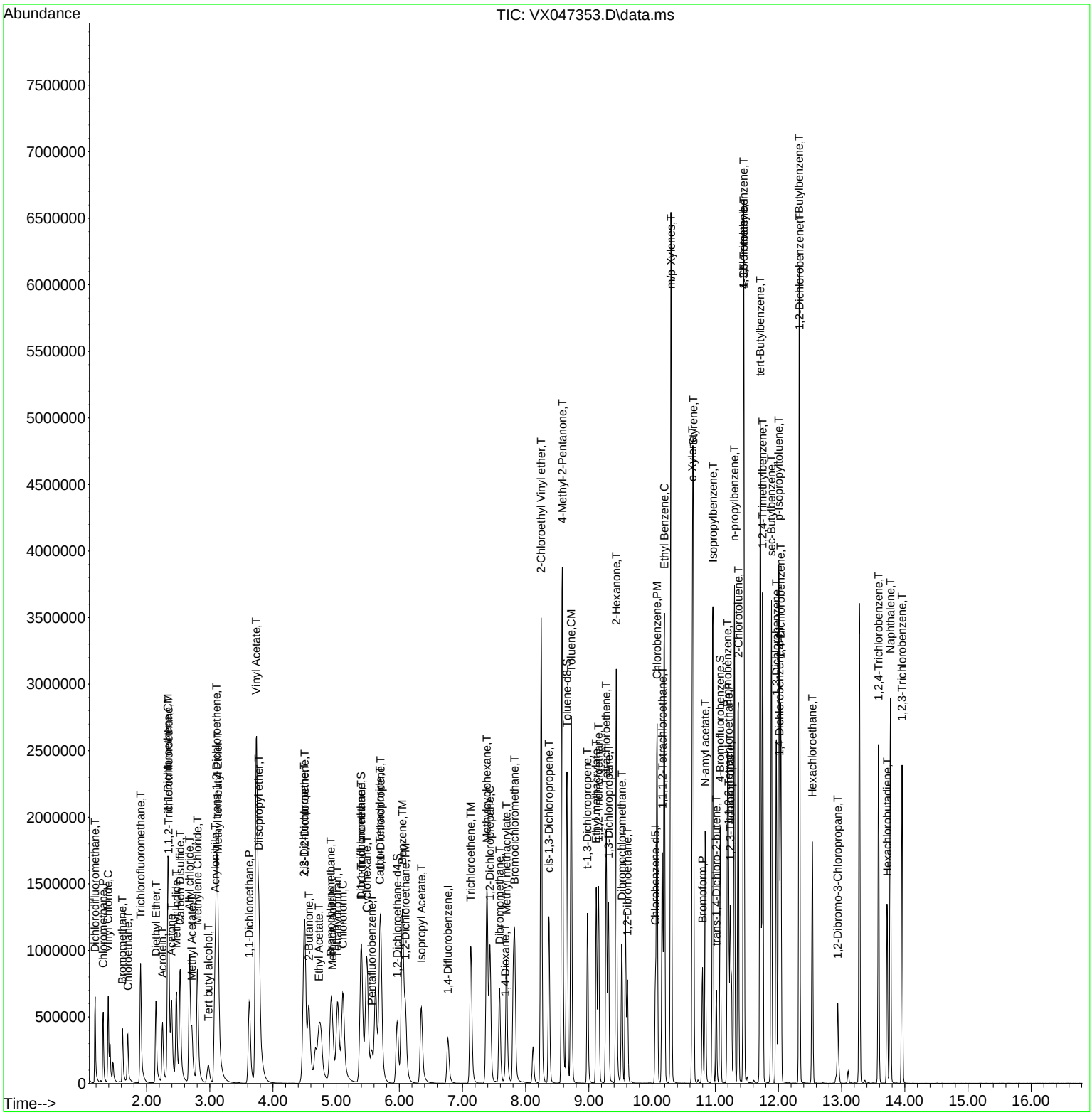
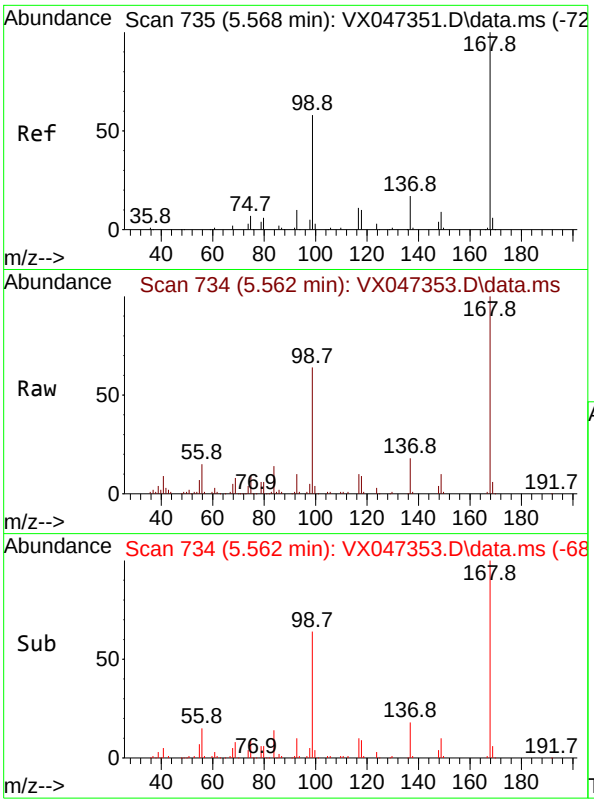
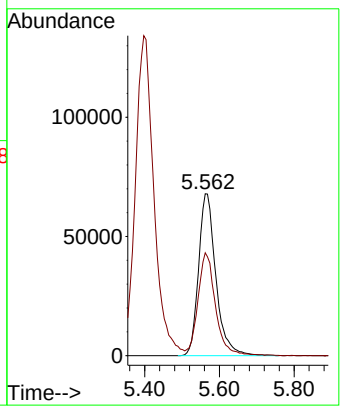




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:168 Resp: 21803

Ion	Ratio	Lower	Upper
168	100		
99	63.3	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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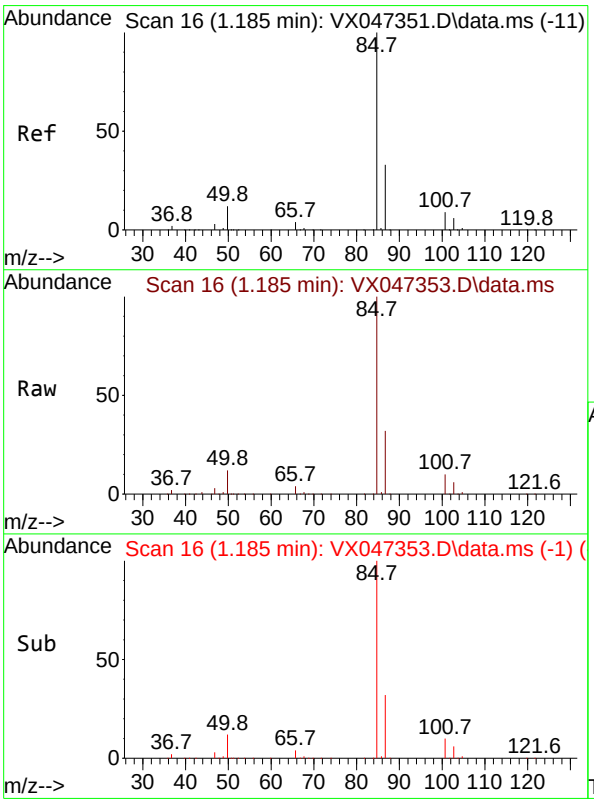
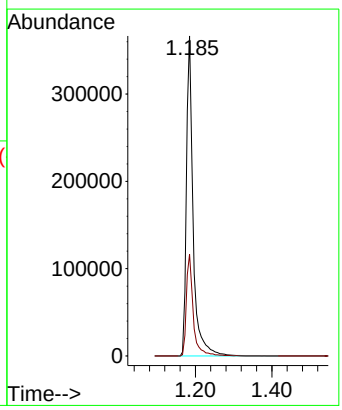
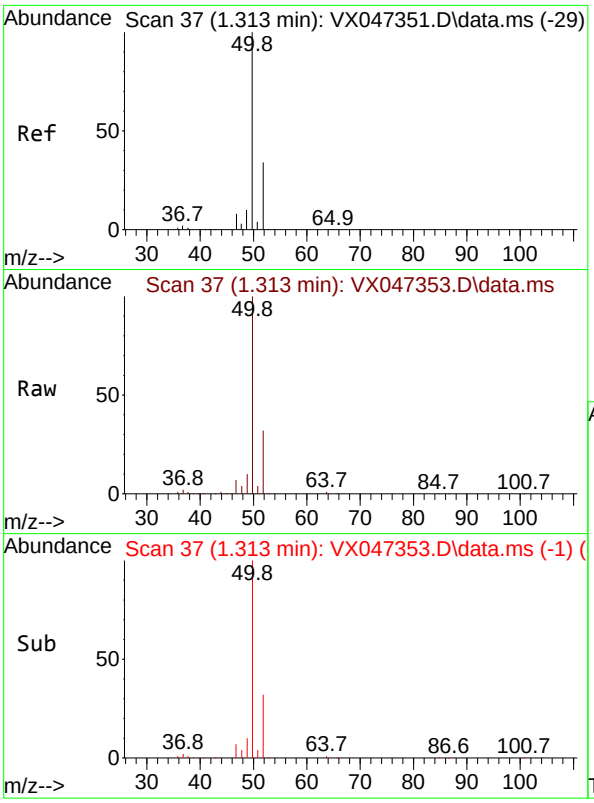


#2
Dichlorodifluoromethane
Concen: 160.118 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 85 Resp: 445045

Ion	Ratio	Lower	Upper
85	100		
87	31.8	16.4	49.1

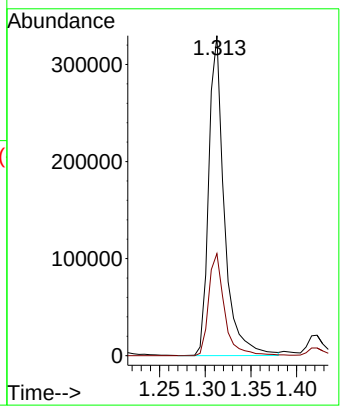




#3
Chloromethane
Concen: 155.385 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 50 Resp: 38852

Ion	Ratio	Lower	Upper
50	100		
52	31.9	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025
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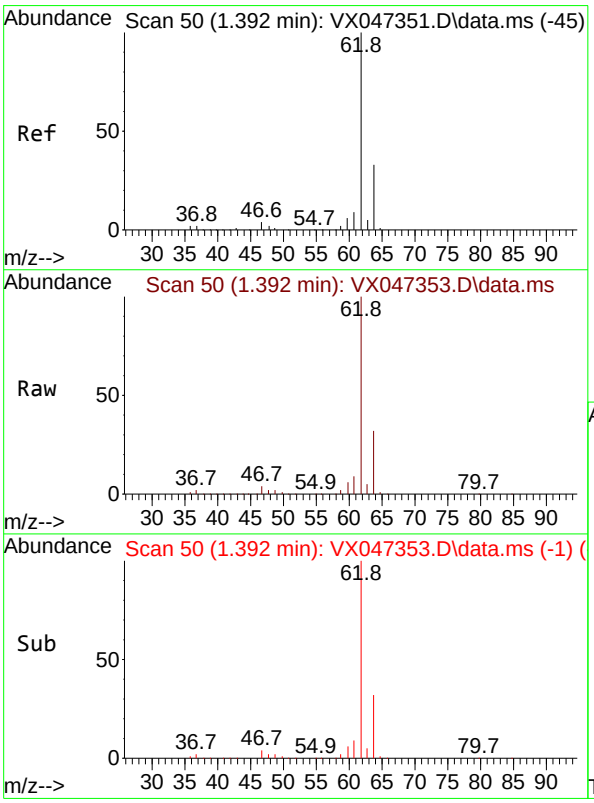
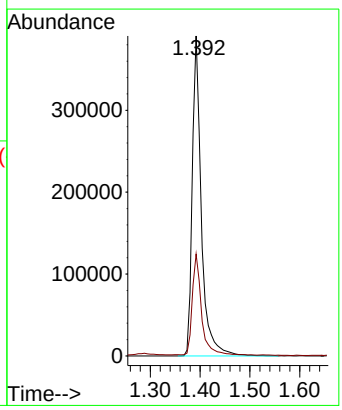
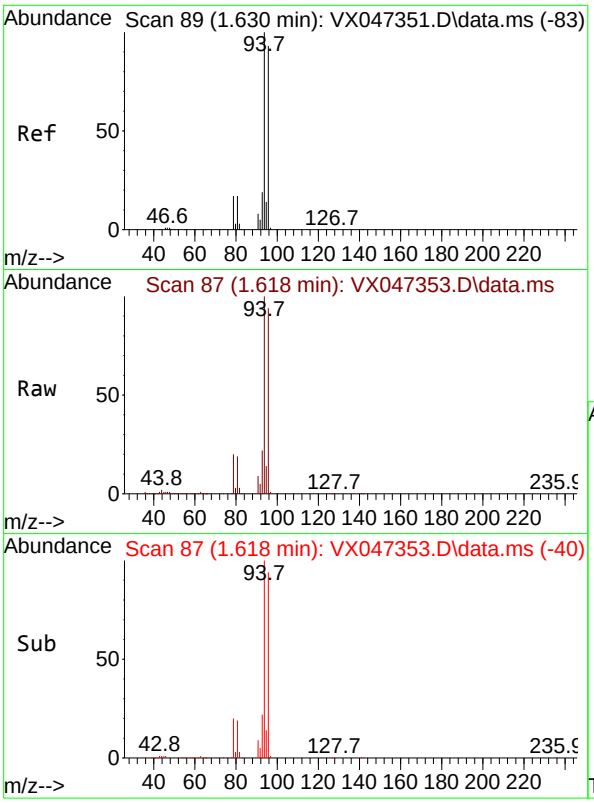


#4
Vinyl Chloride
Concen: 157.702 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 62 Resp: 494933

Ion	Ratio	Lower	Upper
62	100		
64	31.6	26.5	39.7

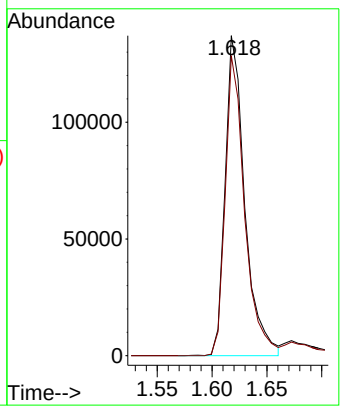




#5
Bromomethane
Concen: 134.788 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 94 Resp: 17086

Ion	Ratio	Lower	Upper
94	100		
96	93.7	74.7	112.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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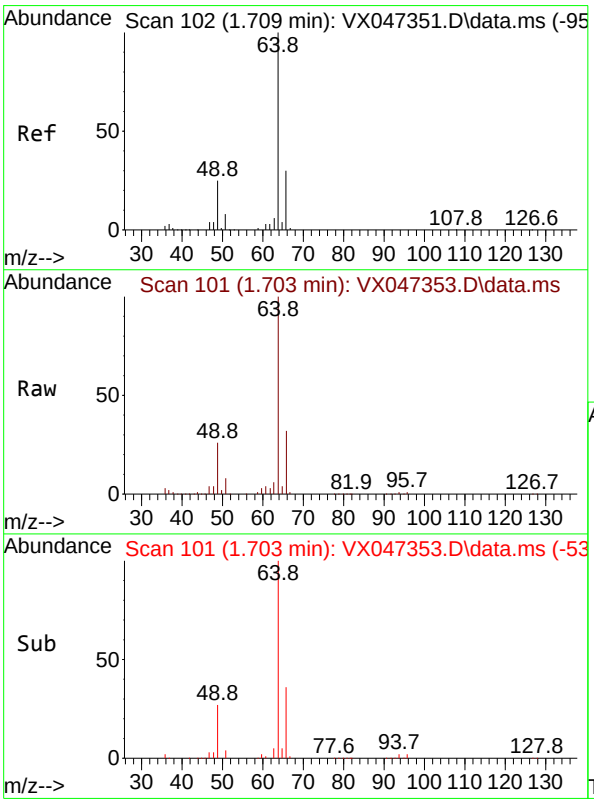
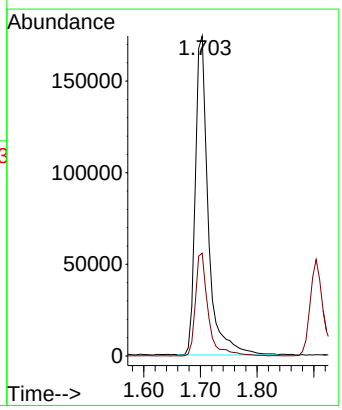
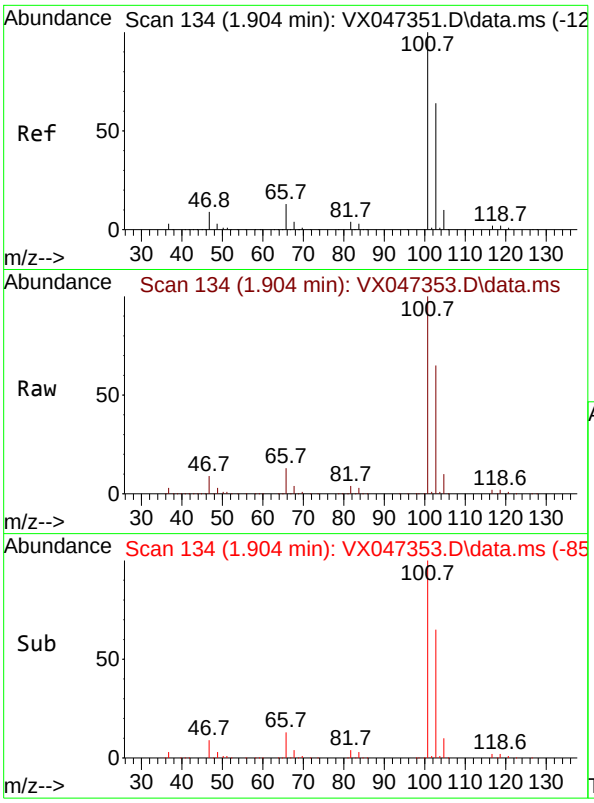


#6
Chloroethane
Concen: 143.758 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 64 Resp: 276042

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.4	36.6

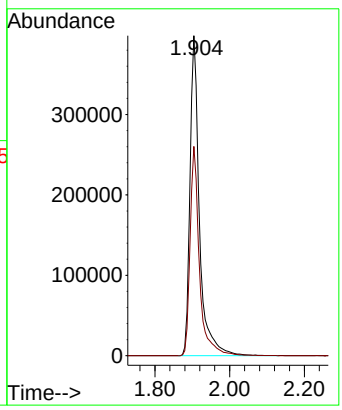




#7
Trichlorofluoromethane
Concen: 150.647 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:101 Resp: 69933

Ion	Ratio	Lower	Upper
101	100		
103	65.4	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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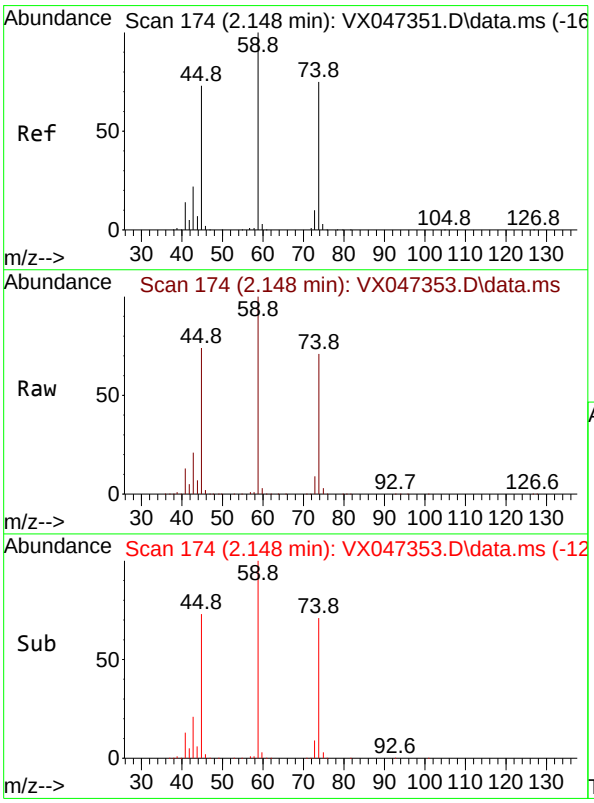
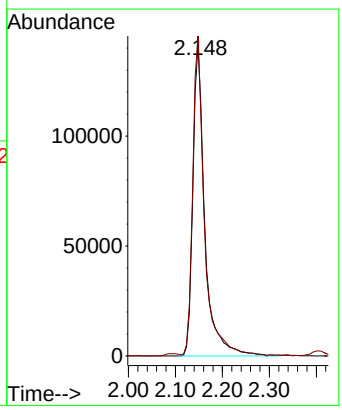
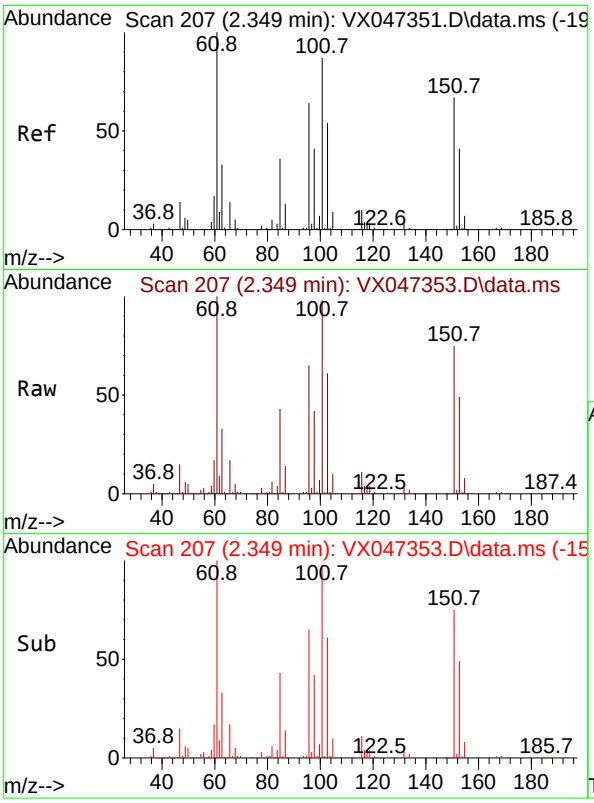


#8
Diethyl Ether
Concen: 154.158 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 74 Resp: 251983

Ion	Ratio	Lower	Upper
74	100		
45	101.1	51.3	154.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 154.664 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:101 Resp: 41648

Ion	Ratio	Lower	Upper
101	100		
85	43.8	34.3	51.5
151	74.9	59.2	88.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

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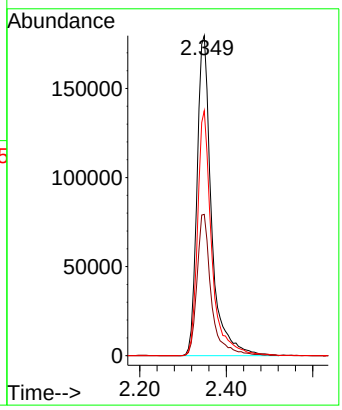
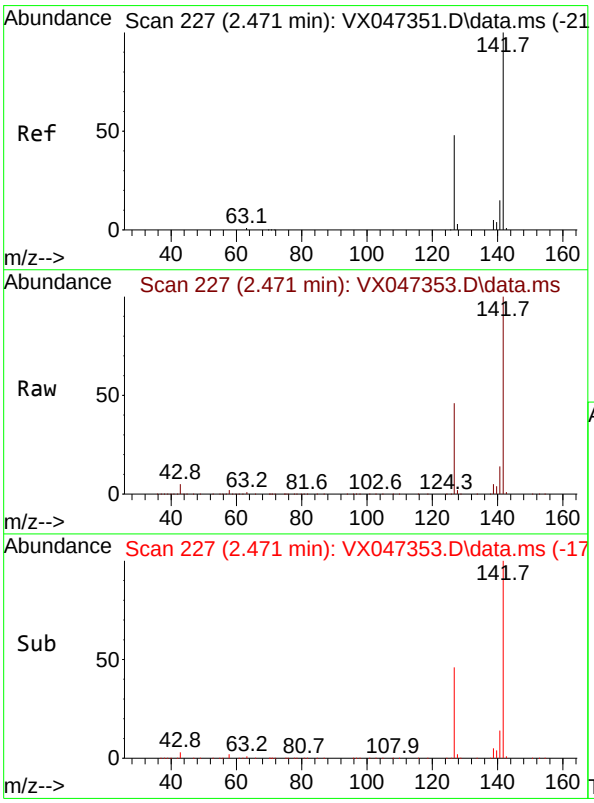
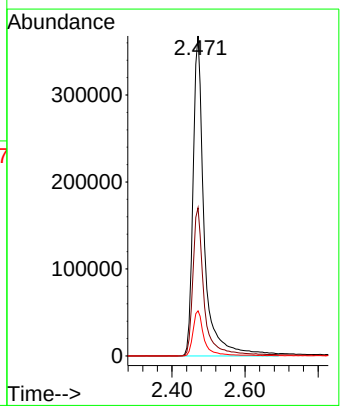


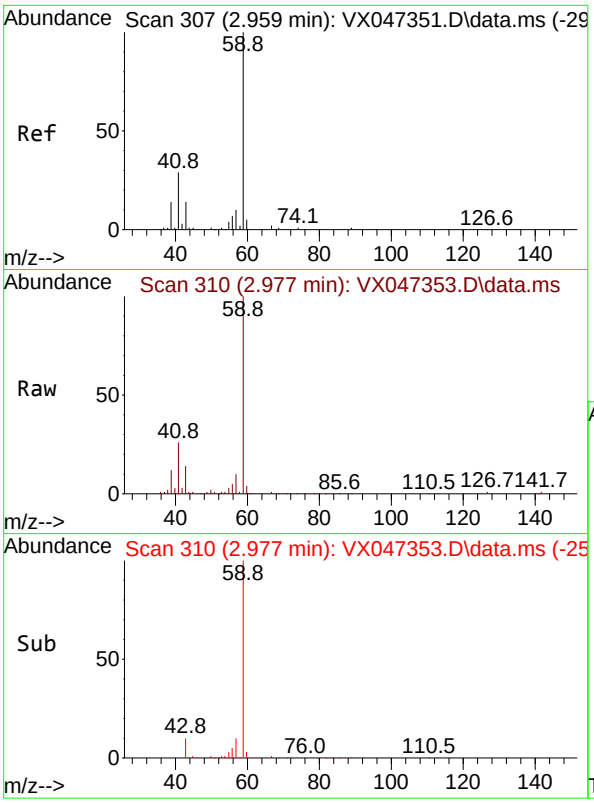


#10
Methyl Iodide
Concen: 172.239 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:142 Resp: 794834

Ion	Ratio	Lower	Upper
142	100		
127	47.1	36.1	54.1
141	14.0	11.1	16.7

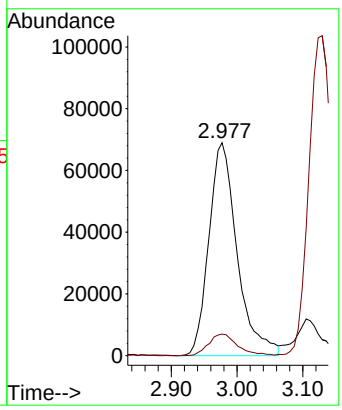




#11
Tert butyl alcohol
Concen: 778.553 ug/l
RT: 2.977 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 59 Resp: 20667

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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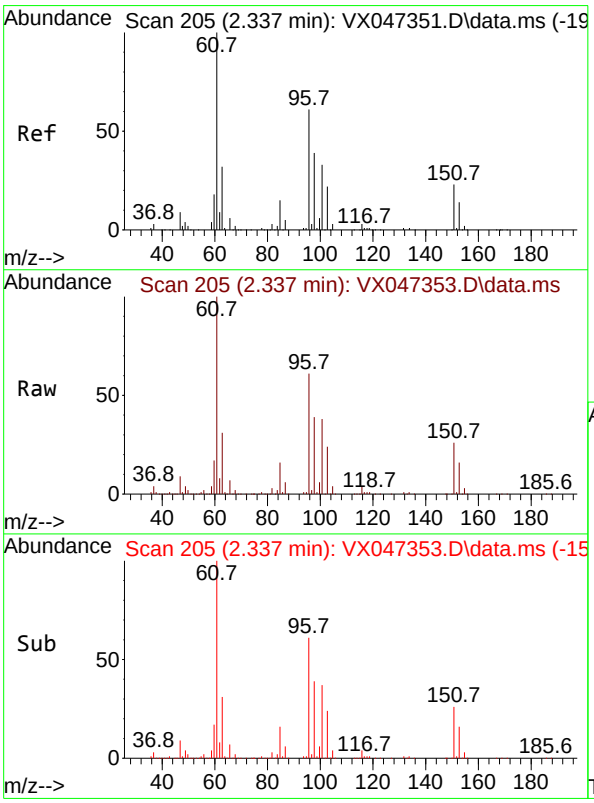
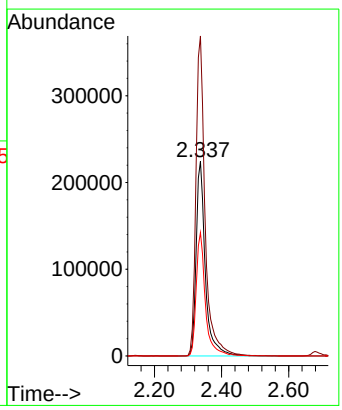
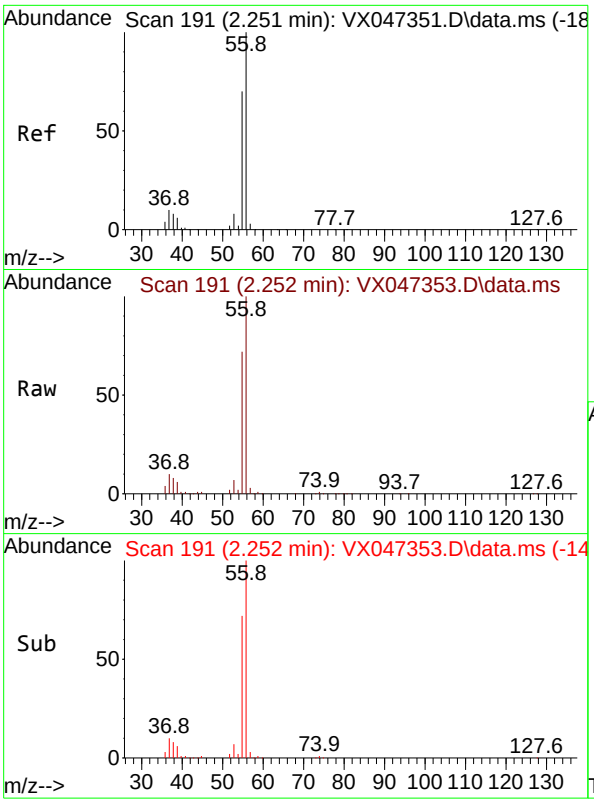


#12
1,1-Dichloroethene
Concen: 155.037 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 96 Resp: 425622

Ion	Ratio	Lower	Upper
96	100		
61	164.5	132.2	198.2
98	63.5	51.2	76.8

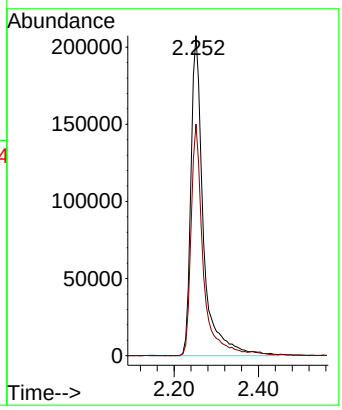




#13
Acrolein
Concen: 766.968 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 56 Resp: 42979

Ion	Ratio	Lower	Upper
56	100		
55	69.4	55.5	83.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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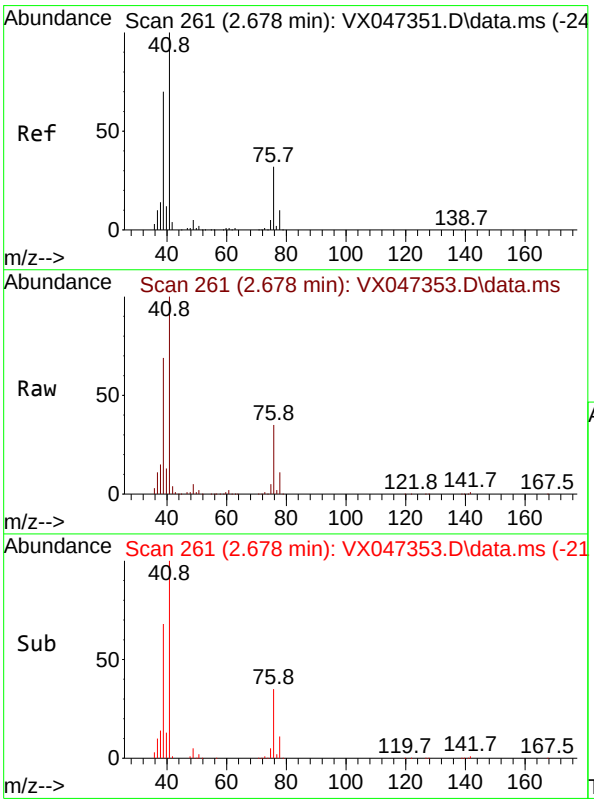
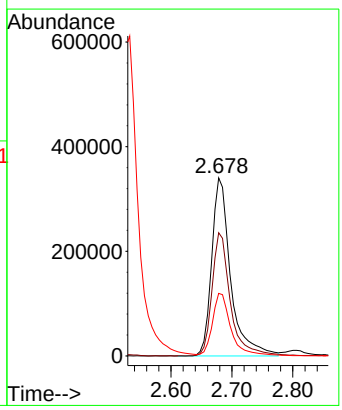
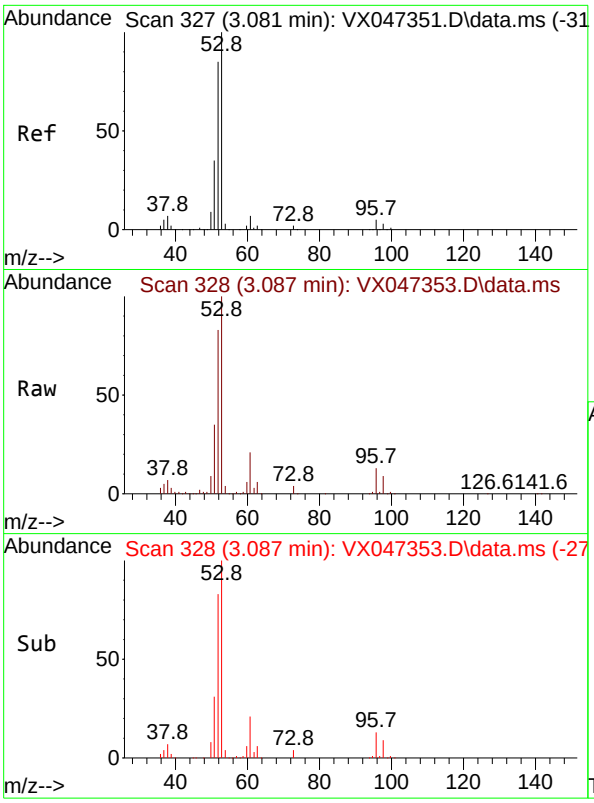


#14
Allyl chloride
Concen: 154.247 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 41 Resp: 735481

Ion	Ratio	Lower	Upper
41	100		
39	67.1	54.6	81.8
76	34.3	27.6	41.4

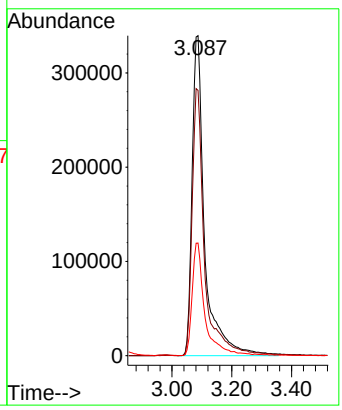




#15
Acrylonitrile
Concen: 772.742 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 53 Resp: 99125

Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.8	98.6
51	35.4	28.2	42.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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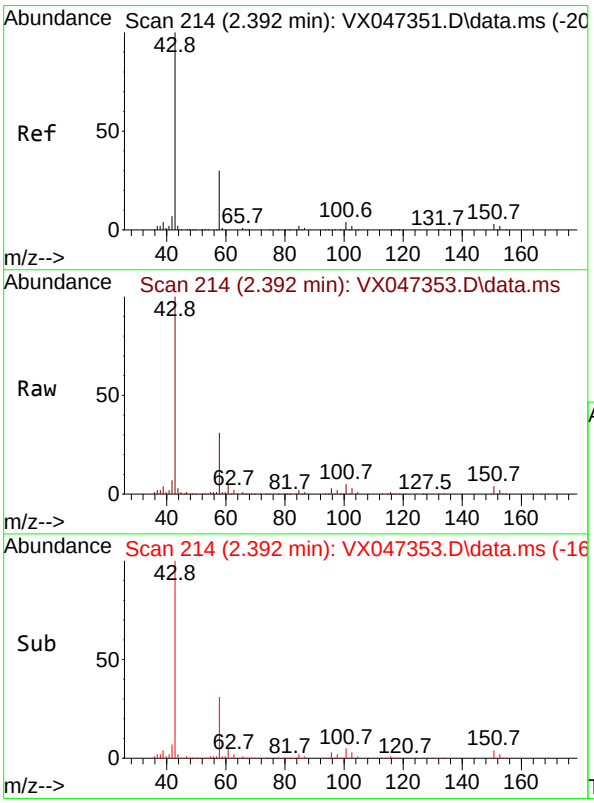
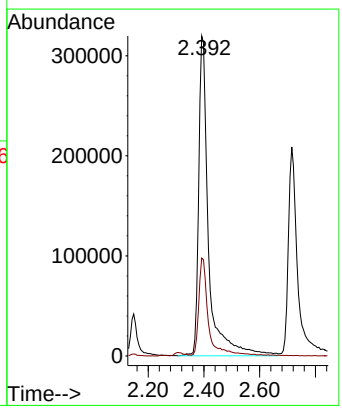
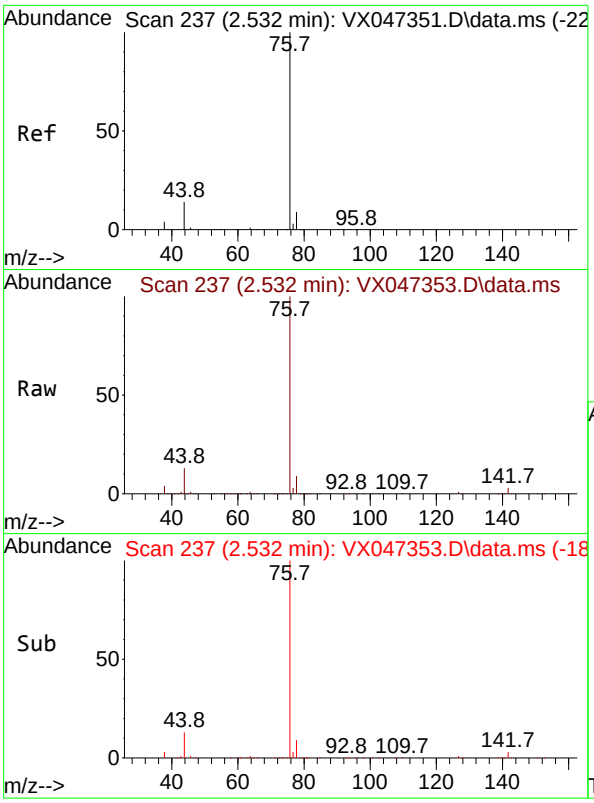


#16
Acetone
Concen: 684.039 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 43 Resp: 784600

Ion	Ratio	Lower	Upper
43	100		
58	30.4	24.8	37.2





#17
Carbon Disulfide
Concen: 146.420 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 76 Resp: 121297

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

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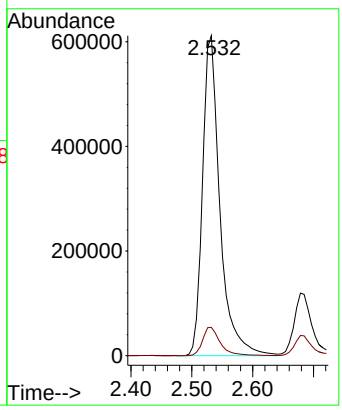
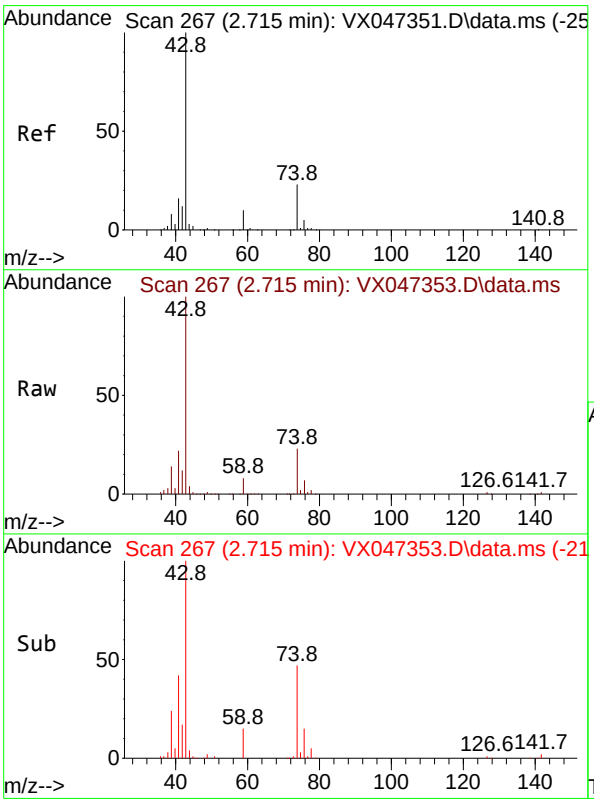
Supervised By :Mahesh Dadoda 08/19/2025

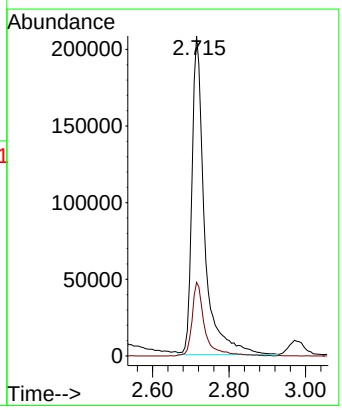


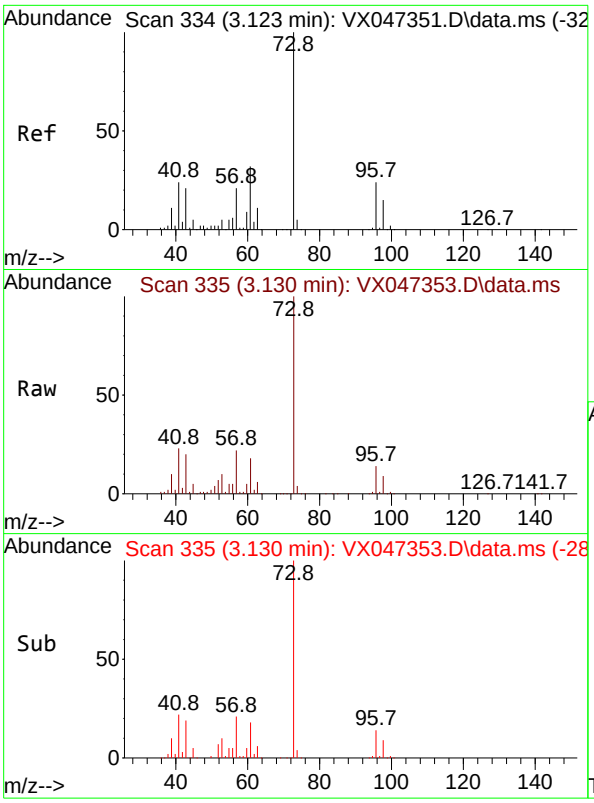


#18
Methyl Acetate
Concen: 160.309 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 43 Resp: 476497

Ion	Ratio	Lower	Upper
43	100		
74	23.3	18.4	27.6

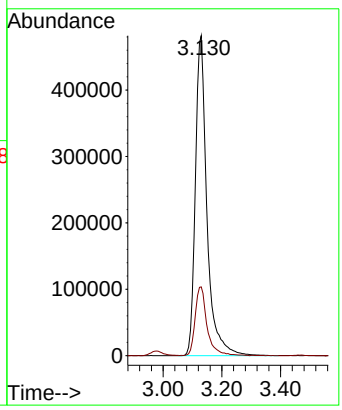




#19
Methyl tert-butyl Ether
Concen: 157.713 ug/l
RT: 3.130 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 73 Resp: 131716

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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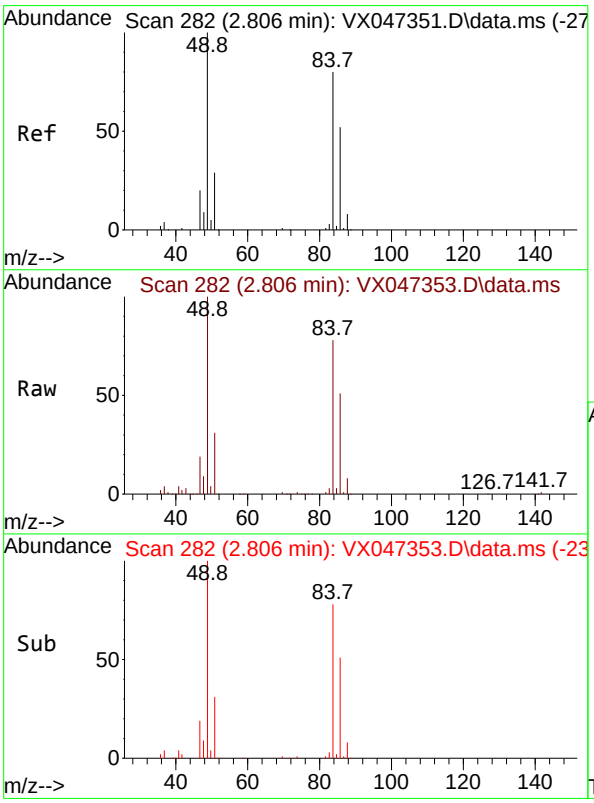
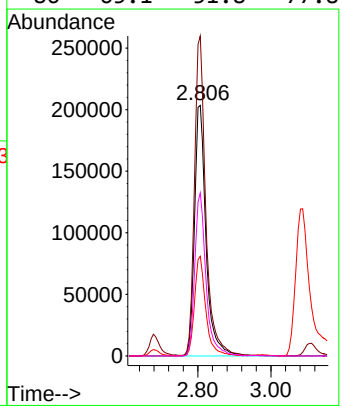
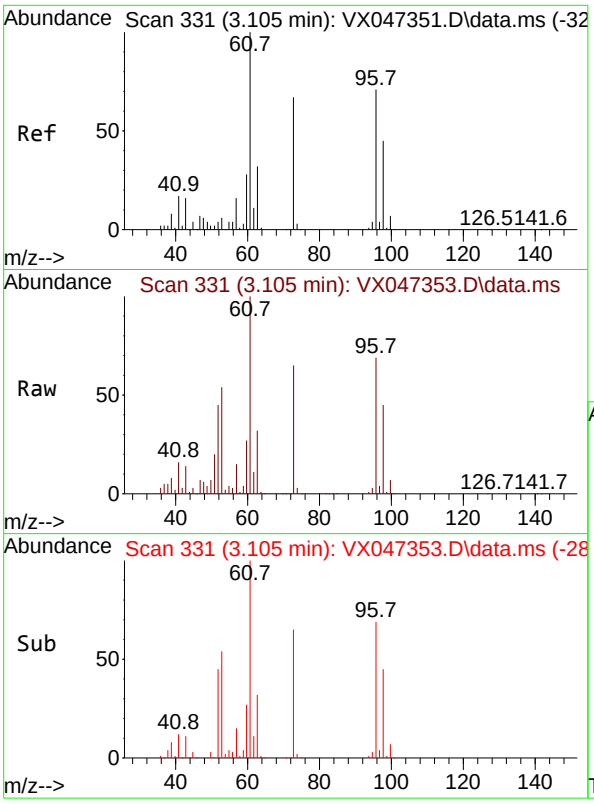


#20
Methylene Chloride
Concen: 147.242 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 84 Resp: 447216

Ion	Ratio	Lower	Upper
84	100		
49	127.5	100.1	150.1
51	39.7	29.5	44.3
86	65.1	51.8	77.8

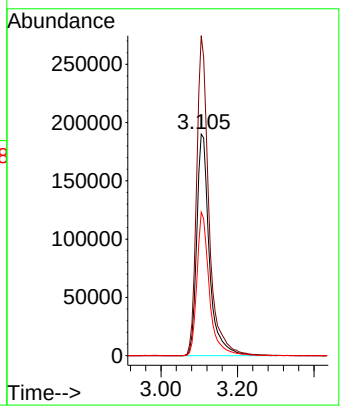




#21
trans-1,2-Dichloroethene
Concen: 149.166 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 96 Resp: 43463

Ion	Ratio	Lower	Upper
96	100		
61	144.3	112.6	169.0
98	64.8	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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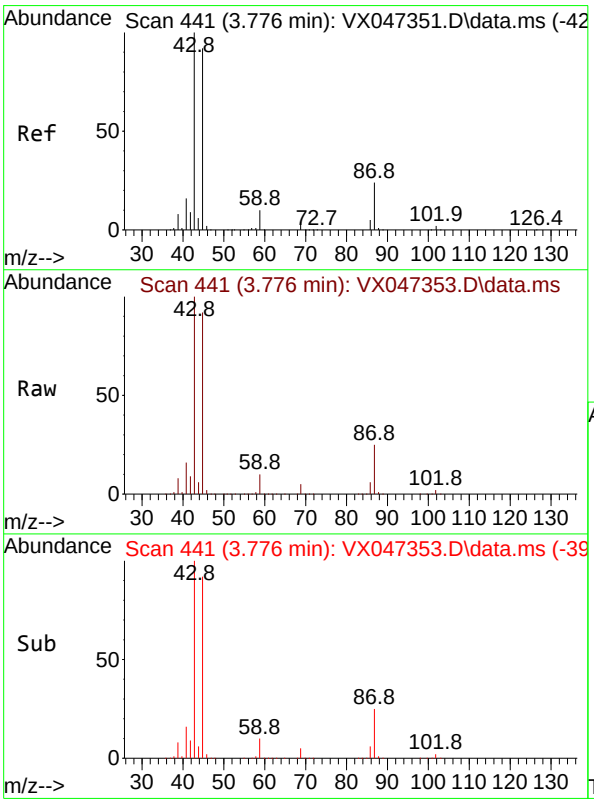
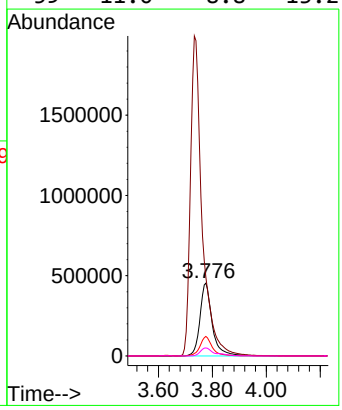
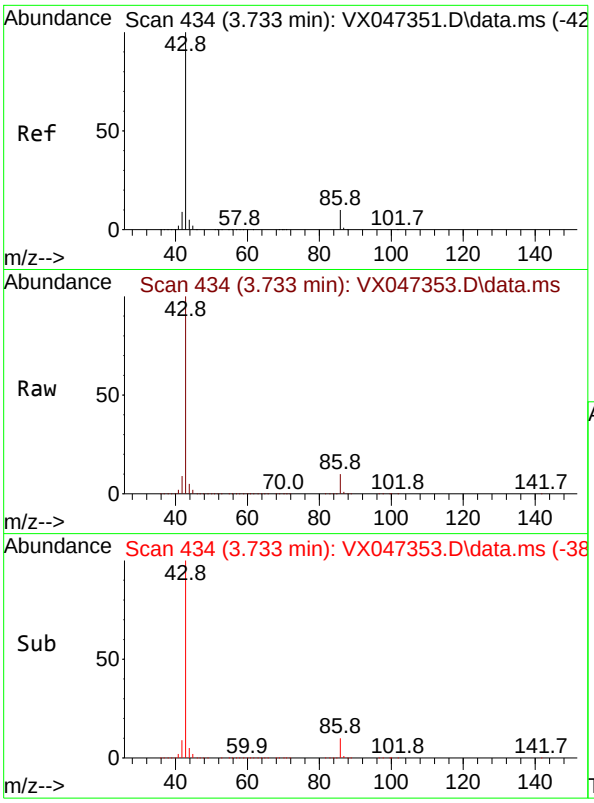


#22
Diisopropyl ether
Concen: 151.699 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 45 Resp: 1429793

Ion	Ratio	Lower	Upper
45	100		
43	108.1	86.8	130.2
87	26.8	20.4	30.6
59	11.0	8.8	13.2

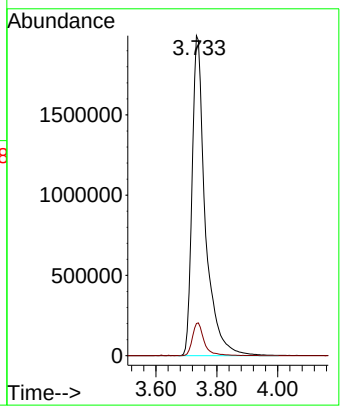




#23
Vinyl Acetate
Concen: 779.316 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 43 Resp: 602047

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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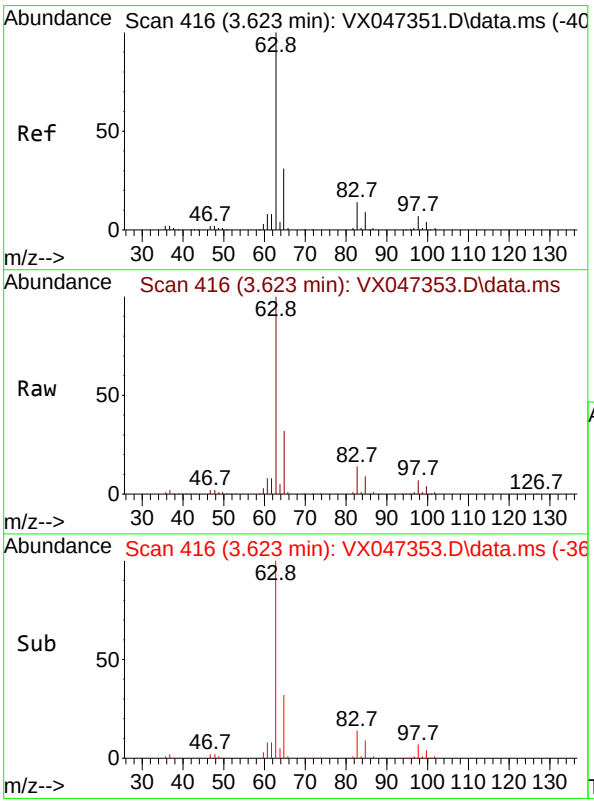
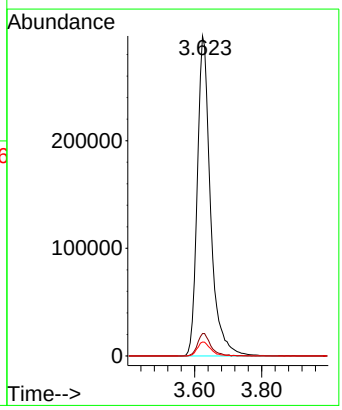
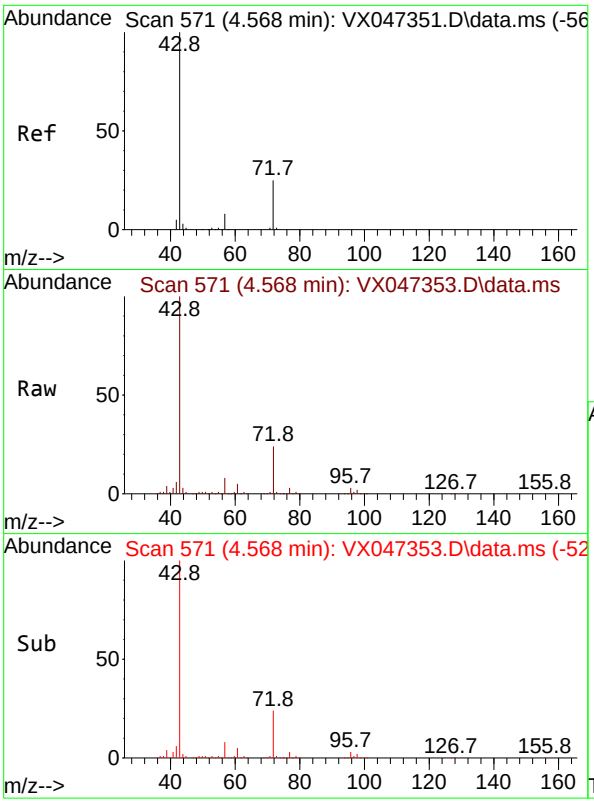


#24
1,1-Dichloroethane
Concen: 152.005 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 63 Resp: 809793

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.9
100	4.3	2.1	6.3

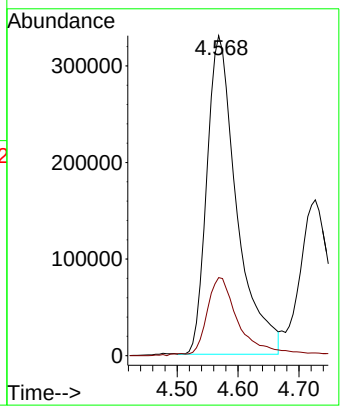




#25
2-Butanone
Concen: 747.433 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 43 Resp: 112280

Ion	Ratio	Lower	Upper
43	100		
72	23.9	19.8	29.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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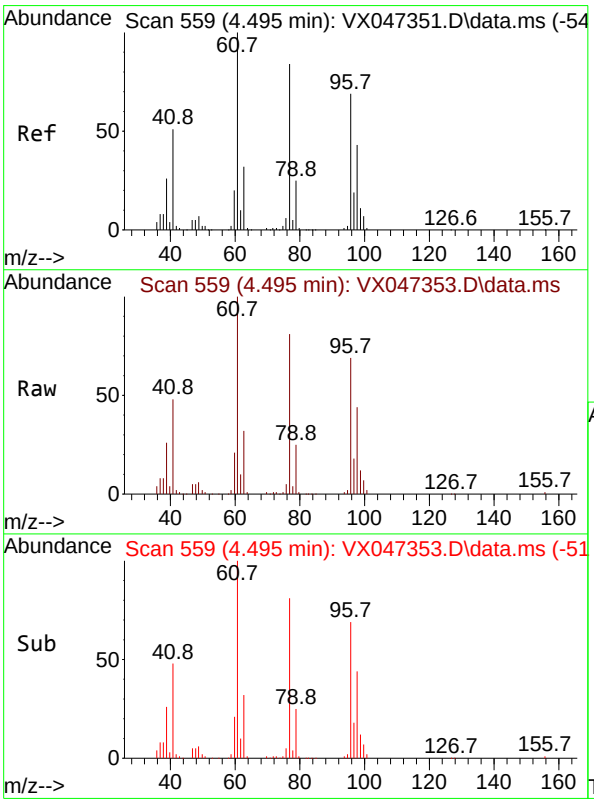
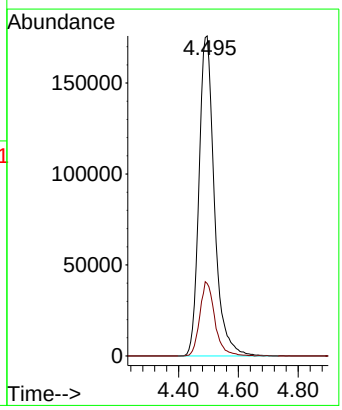
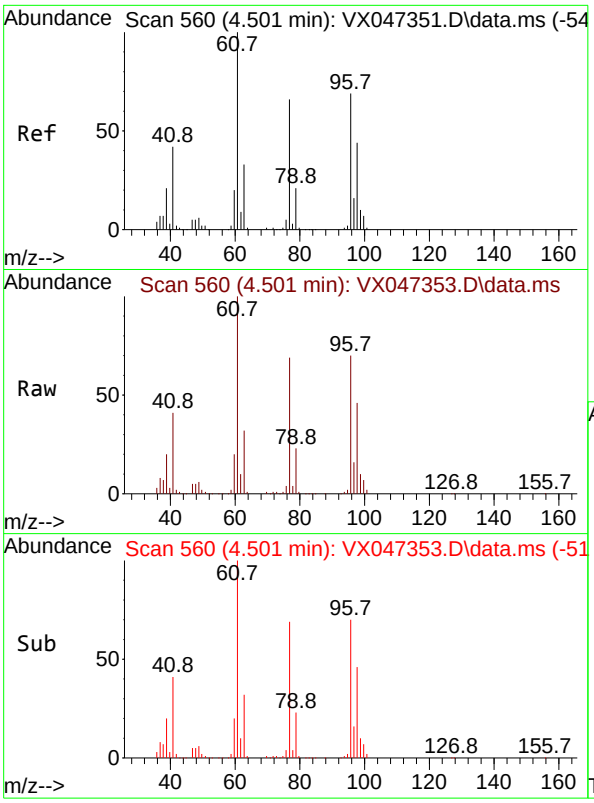


#26
2,2-Dichloropropane
Concen: 156.100 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 77 Resp: 627662

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.4	34.1

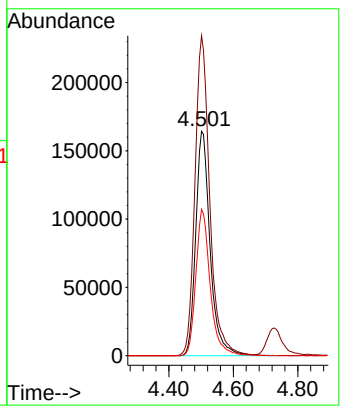




#27
cis-1,2-Dichloroethene
Concen: 150.154 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 96 Resp: 50958

Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	296.6
98	64.9	0.0	130.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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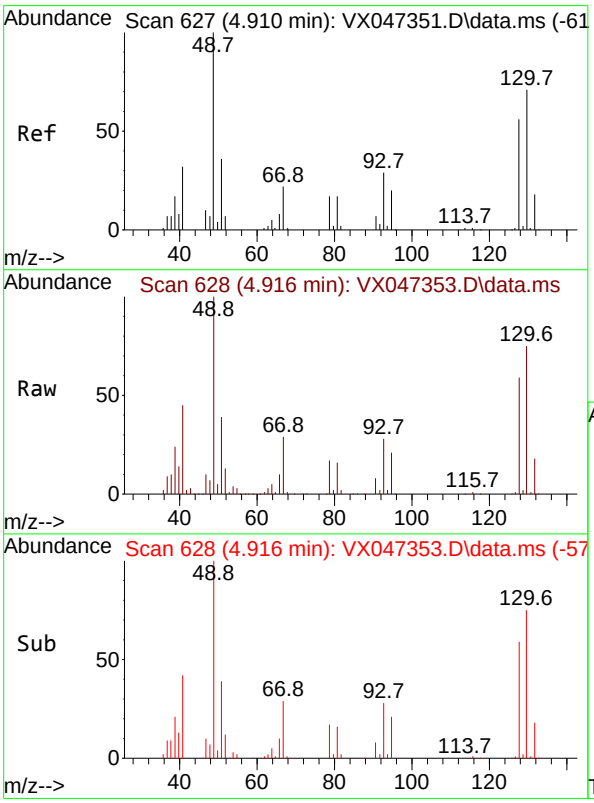
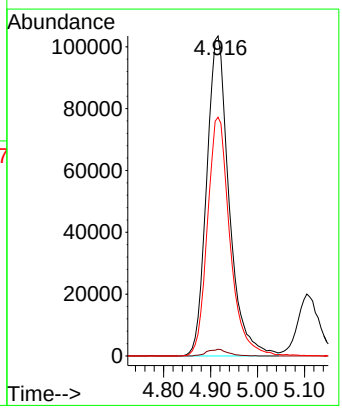
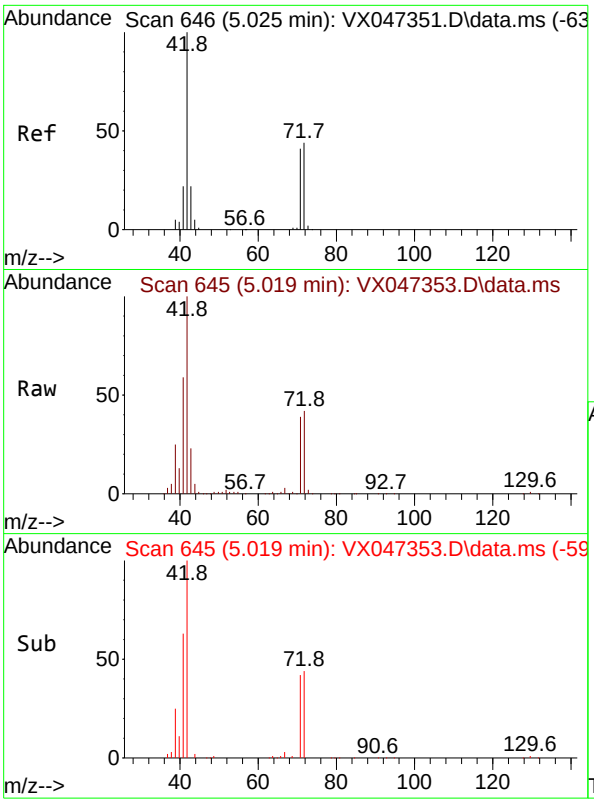


#28
Bromochloromethane
Concen: 154.839 ug/l
RT: 4.916 min Scan# 628
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 49 Resp: 343257

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	75.0	59.8	89.6





#29
Tetrahydrofuran
Concen: 739.017 ug/l
RT: 5.019 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 42 Resp: 71754

Ion	Ratio	Lower	Upper
42	100		
72	45.7	34.6	51.8
71	42.1	32.6	49.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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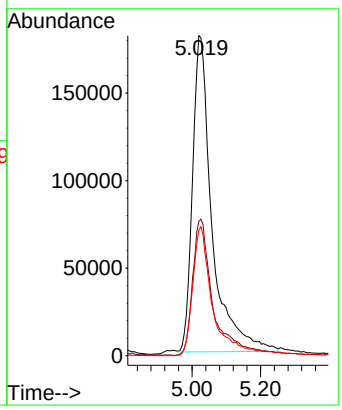
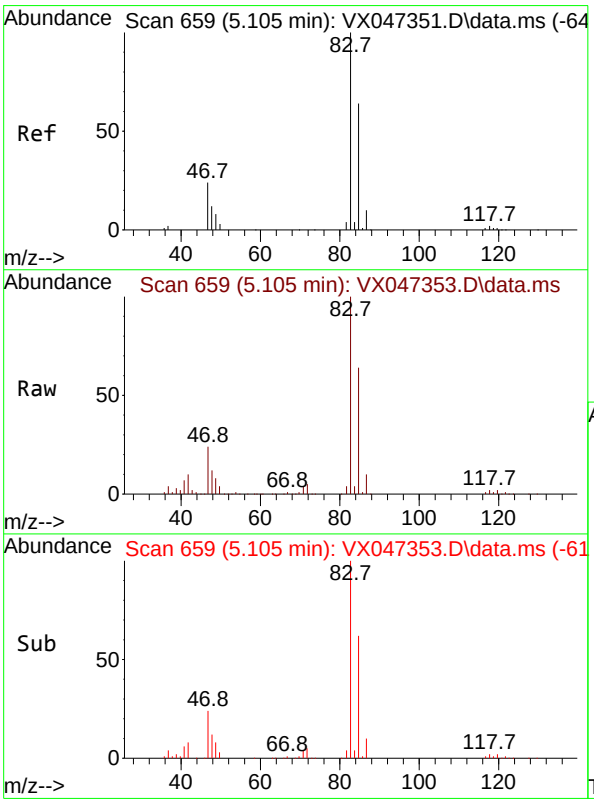
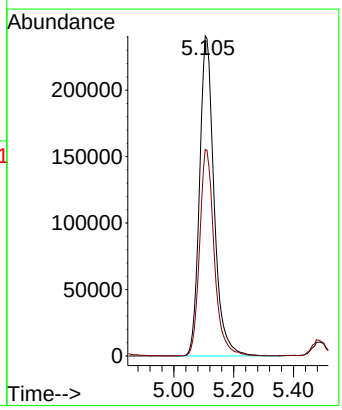


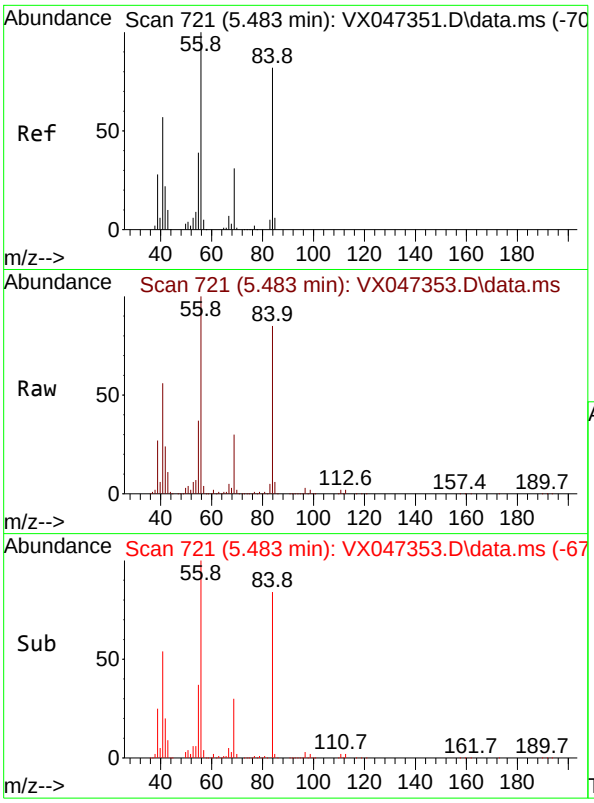


#30
Chloroform
Concen: 149.521 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 83 Resp: 812939

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.2	76.8

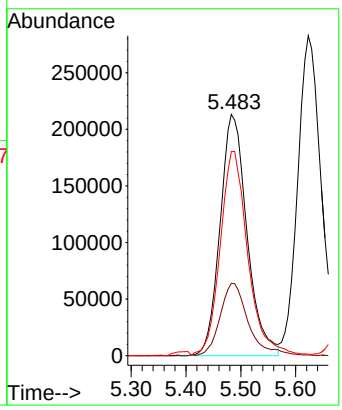




#31
Cyclohexane
Concen: 148.180 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 56 Resp: 72770

Ion	Ratio	Lower	Upper
56	100		
69	29.6	24.3	36.5
84	83.0	65.3	97.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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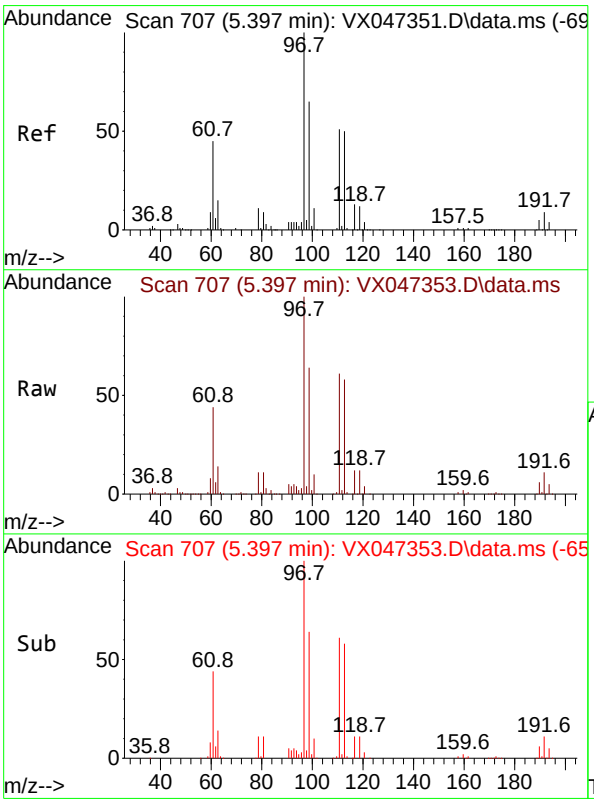
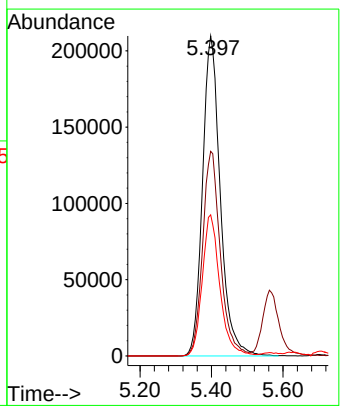
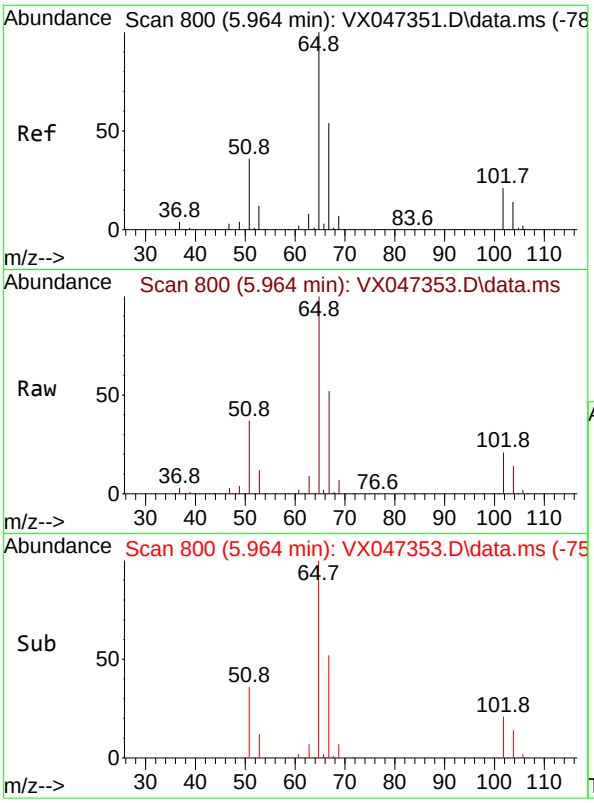


#32
1,1,1-Trichloroethane
Concen: 154.630 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 97 Resp: 723635

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.4	77.0
61	43.8	35.7	53.5

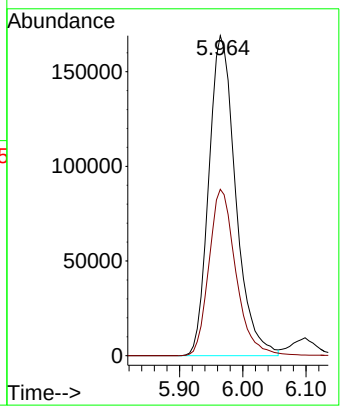




#33
1,2-Dichloroethane-d4
Concen: 163.328 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 65 Resp: 49839

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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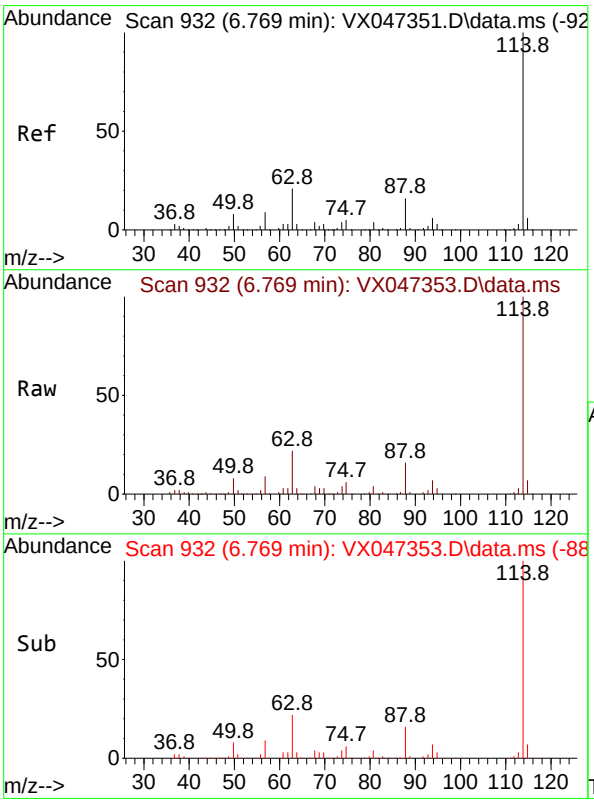
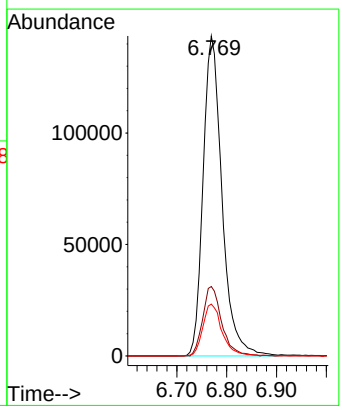
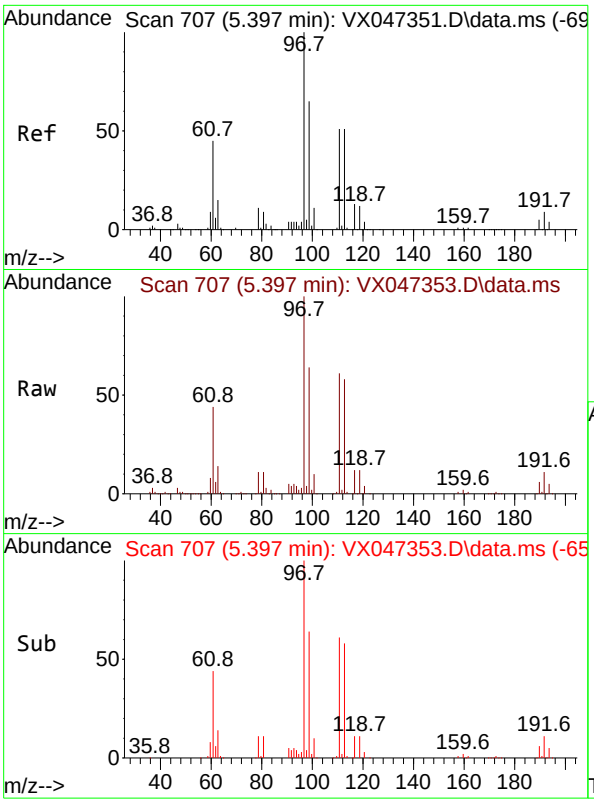


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:114 Resp: 378315

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	42.4
88	16.2	0.0	33.0

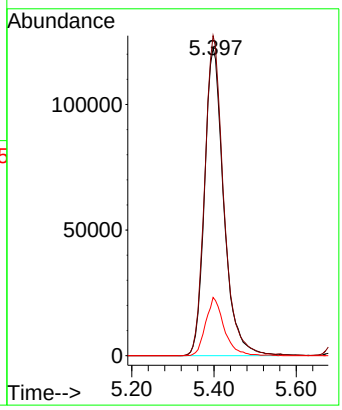




#35
Dibromofluoromethane
Concen: 161.390 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:113 Resp: 39626

Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.4	122.2
192	18.2	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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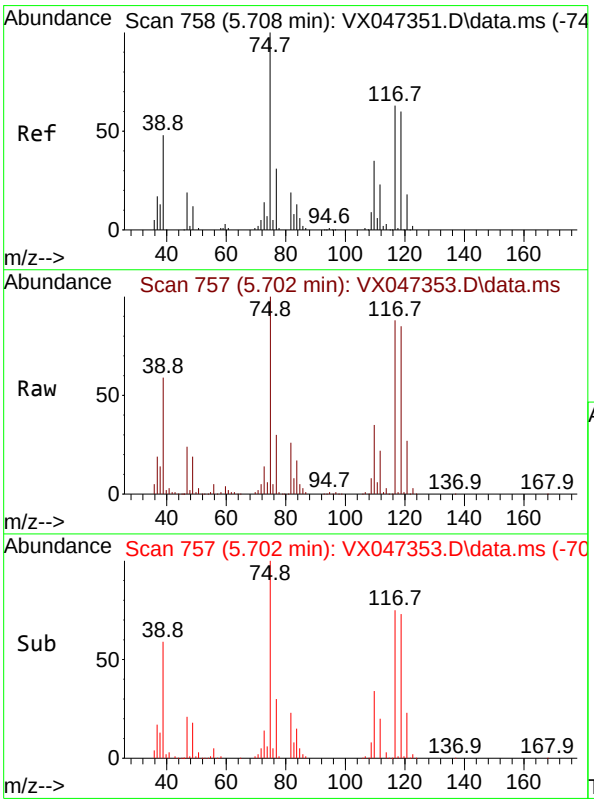
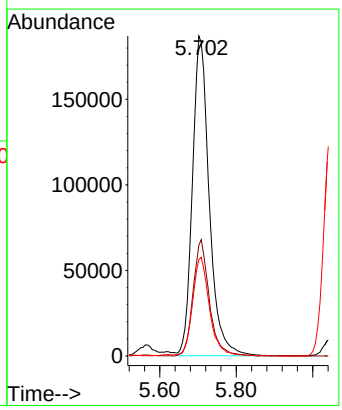
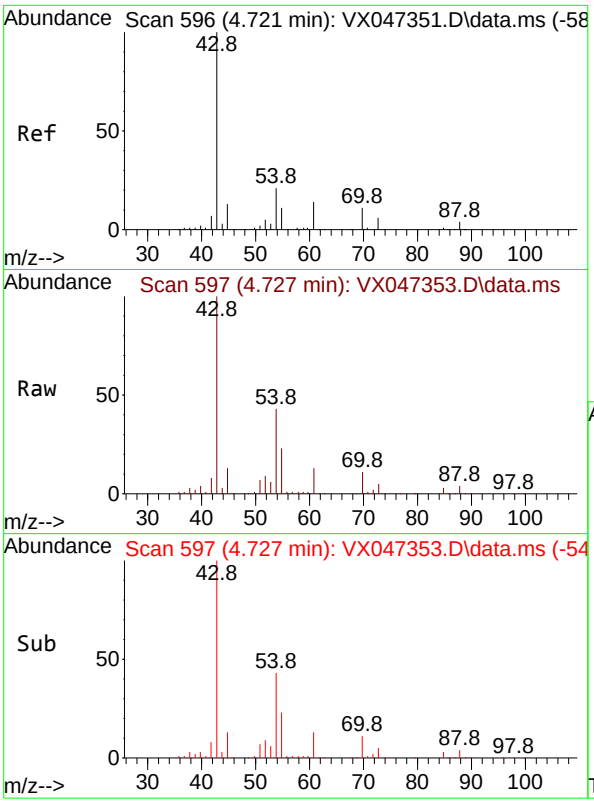


#36
1,1-Dichloropropene
Concen: 147.104 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 75 Resp: 570157

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.4	52.2
77	31.0	24.4	36.6

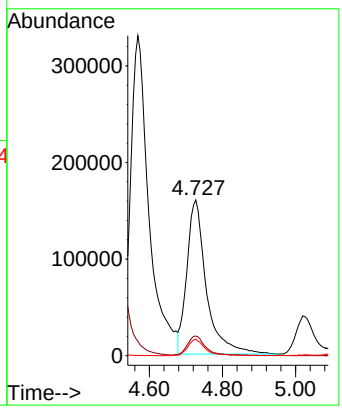




#37
Ethyl Acetate
Concen: 147.465 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 43 Resp: 59336

Ion	Ratio	Lower	Upper
43	100		
61	10.7	9.4	14.2
70	9.6	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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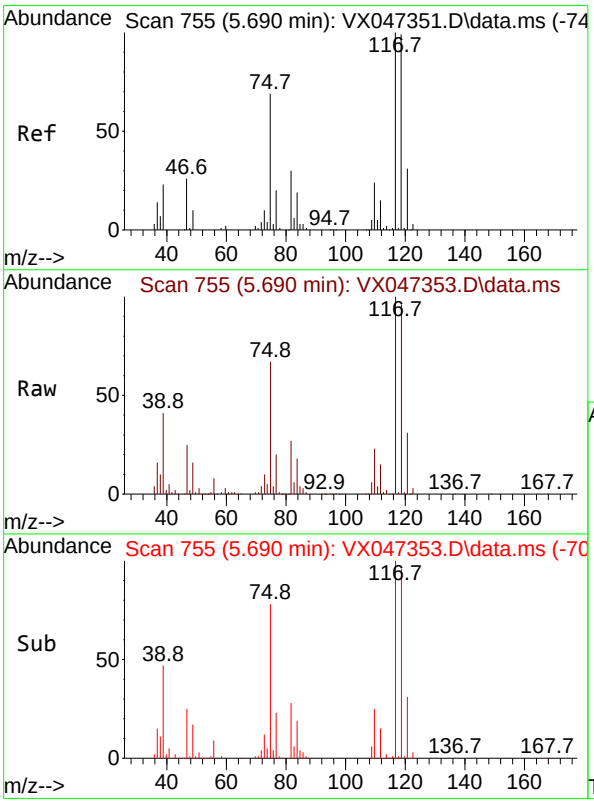
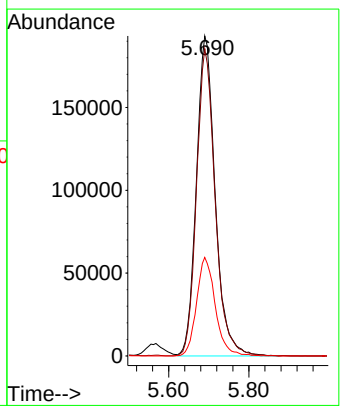
Supervised By :Mahesh Dadoda 08/19/2025

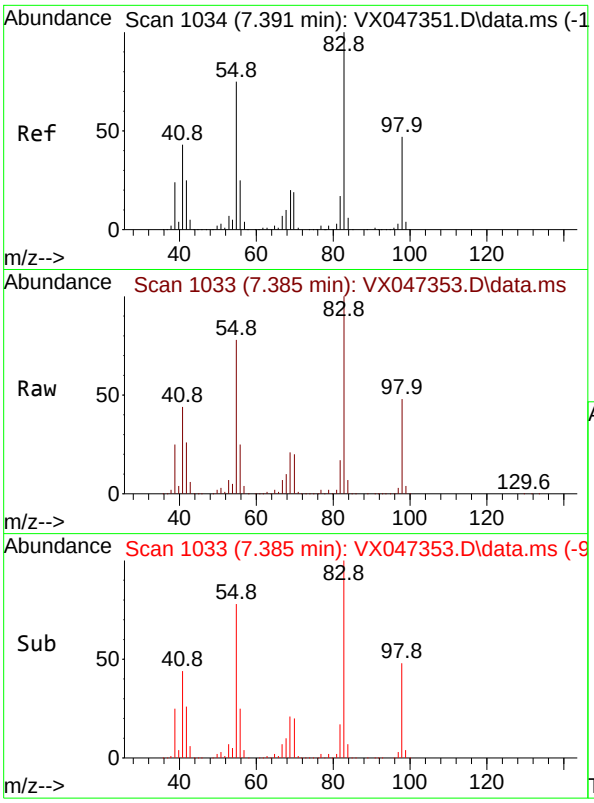


#38
Carbon Tetrachloride
Concen: 148.444 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:117 Resp: 628733

Ion	Ratio	Lower	Upper
117	100		
119	96.0	78.5	117.7
121	30.8	24.7	37.1





#39
Methylcyclohexane
Concen: 150.814 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 83 Resp: 72912

Ion	Ratio	Lower	Upper
83	100		
55	78.4	60.0	90.0
98	48.1	37.2	55.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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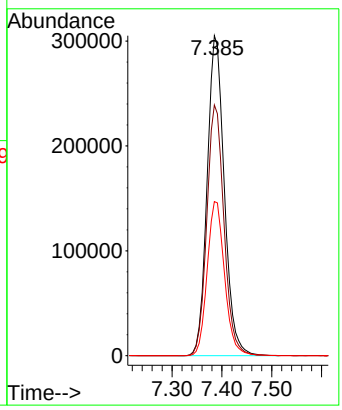
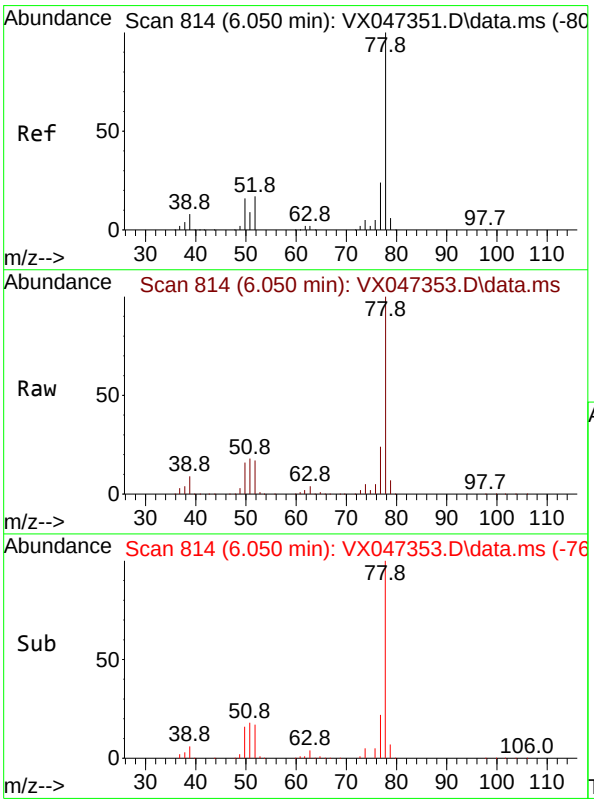
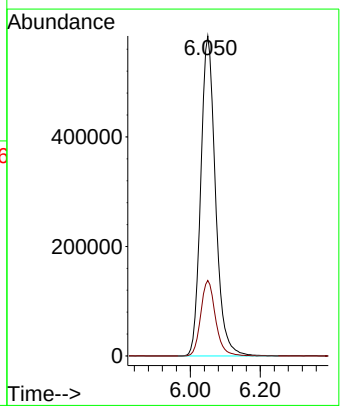


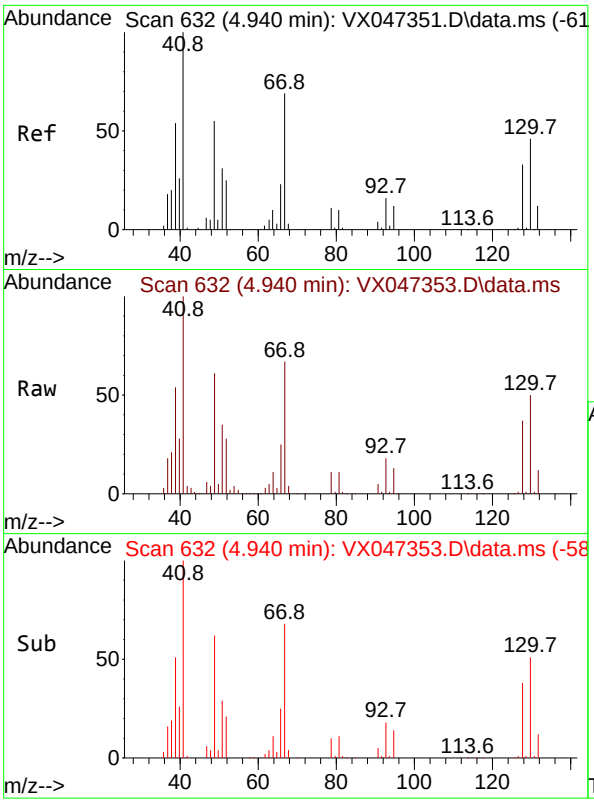


#40
Benzene
Concen: 147.130 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 78 Resp: 1706889

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4

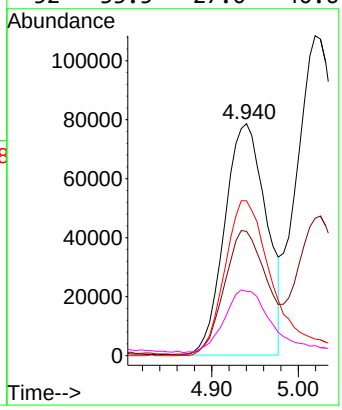




#41
Methacrylonitrile
Concen: 154.600 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 41 Resp: 26232

Ion	Ratio	Lower	Upper
41	100		
39	53.5	45.4	68.2
67	81.1	64.0	96.0
52	33.5	27.0	40.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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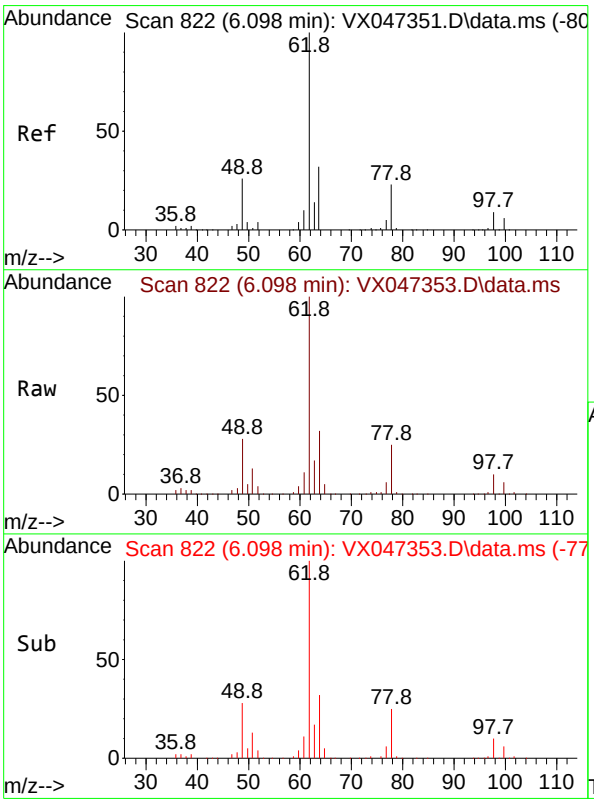
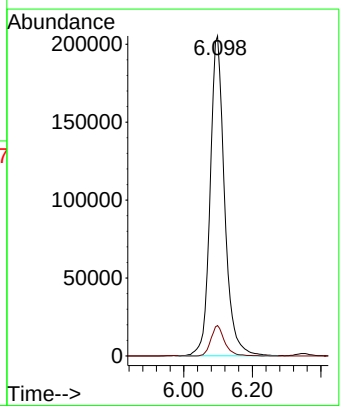
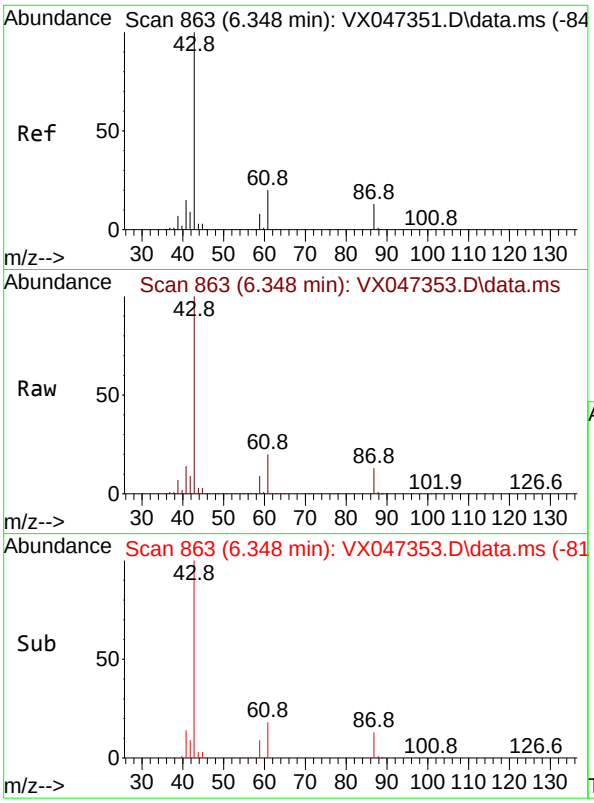


#42
1,2-Dichloroethane
Concen: 145.829 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 62 Resp: 599255

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.0

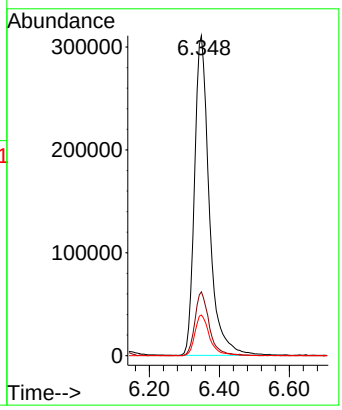




#43
Isopropyl Acetate
Concen: 157.486 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 43 Resp: 91034

Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.4	23.0
87	12.7	10.2	15.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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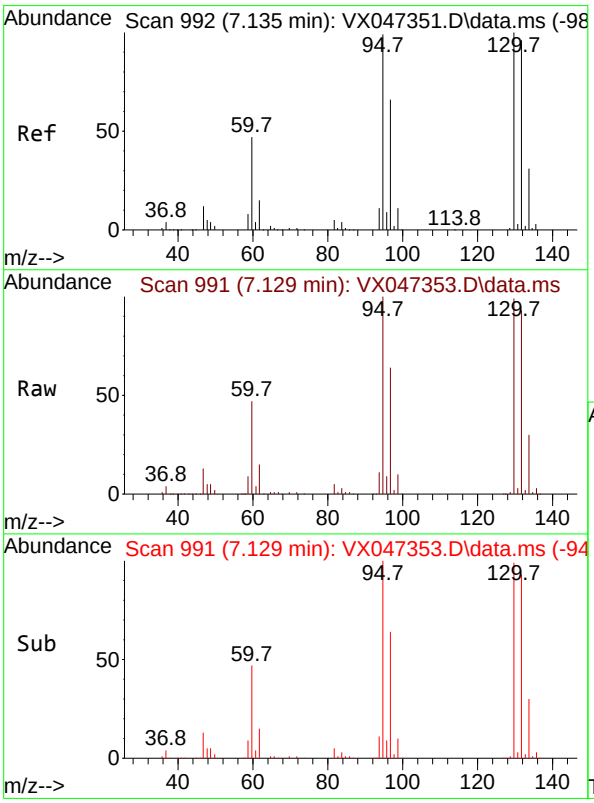
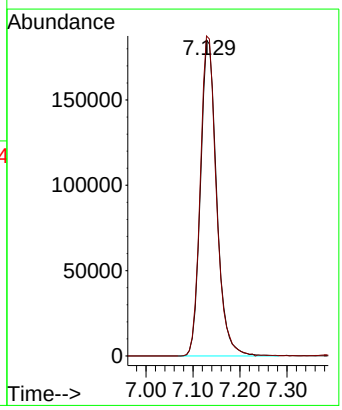
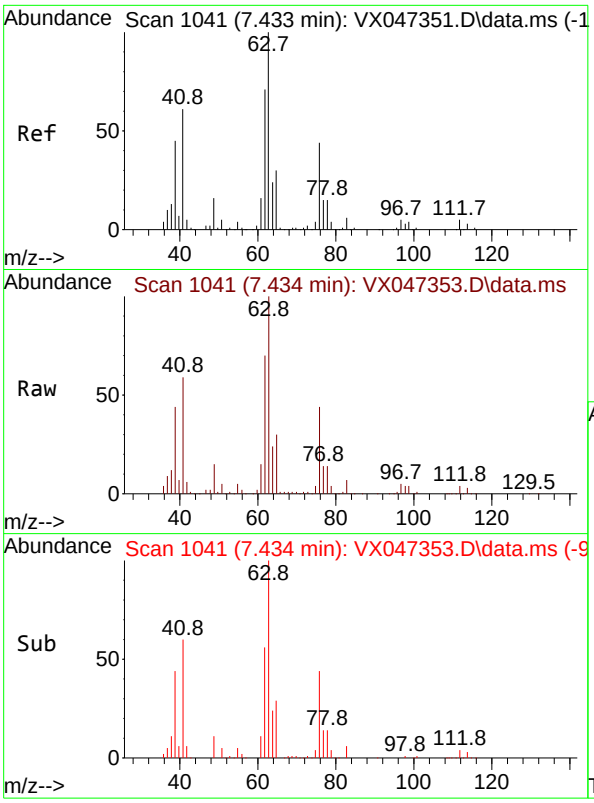


#44
Trichloroethene
Concen: 149.252 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:130 Resp: 443361

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	198.6

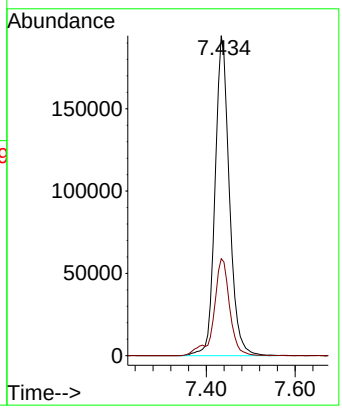




#45
1,2-Dichloropropane
Concen: 149.161 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 63 Resp: 43351

Ion	Ratio	Lower	Upper
63	100		
65	30.3	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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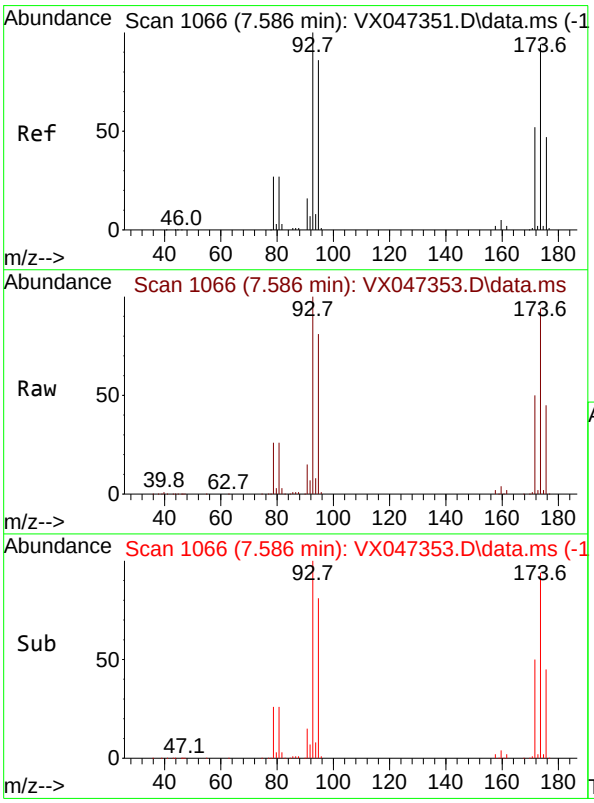
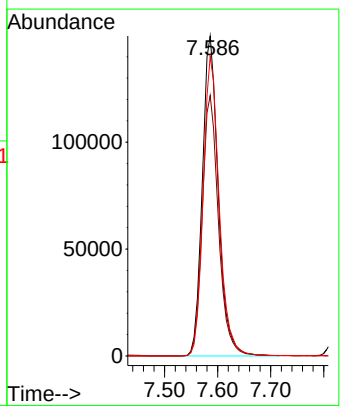
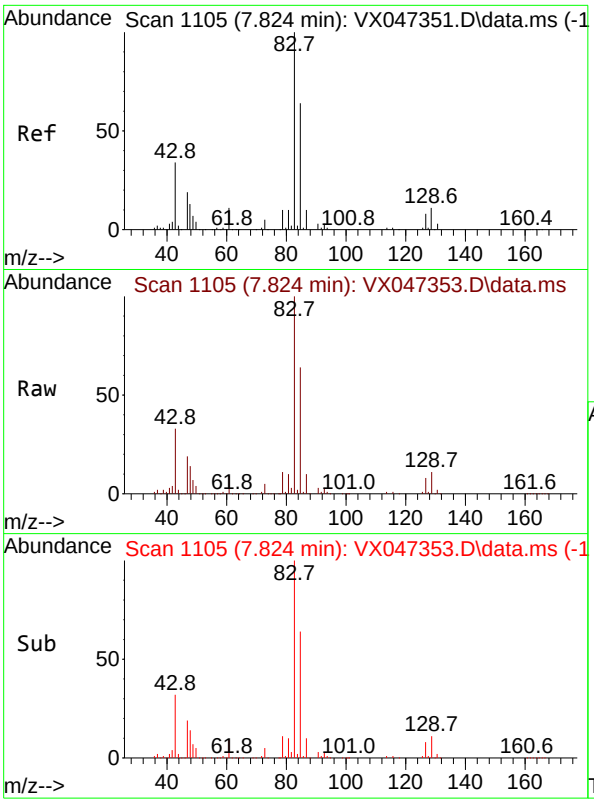


#46
Dibromomethane
Concen: 148.288 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 93 Resp: 312886

Ion	Ratio	Lower	Upper
93	100		
95	82.9	68.0	102.0
174	93.9	75.8	113.6

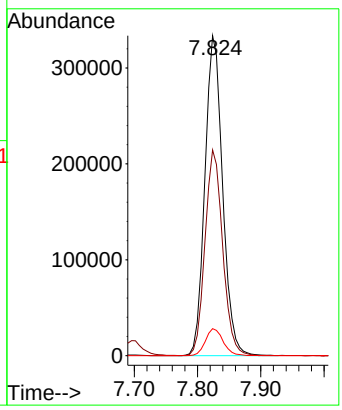




#47
Bromodichloromethane
Concen: 148.773 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 83 Resp: 65076

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.0	76.6
127	8.5	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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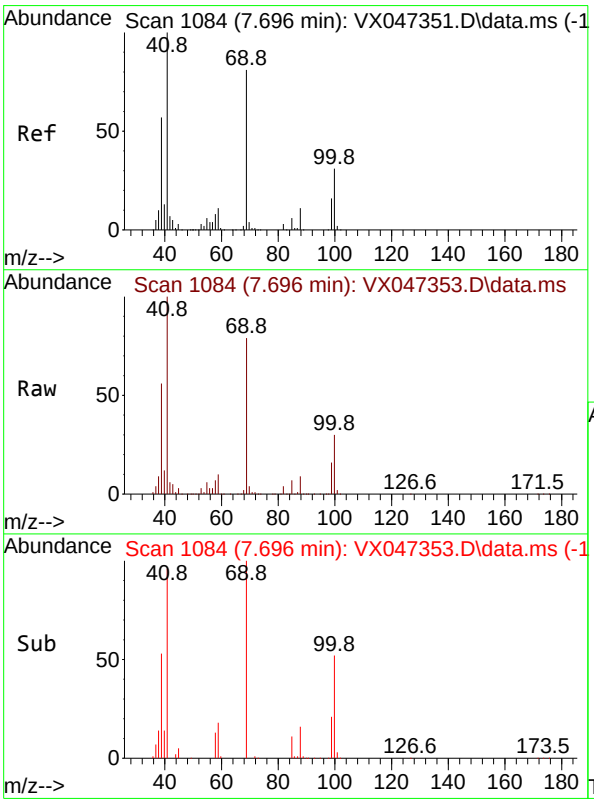
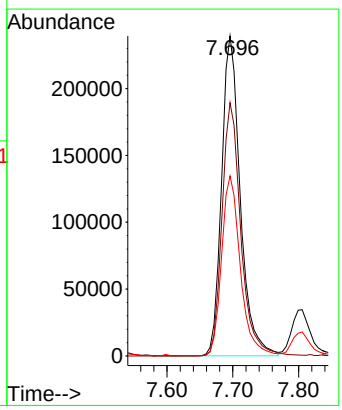
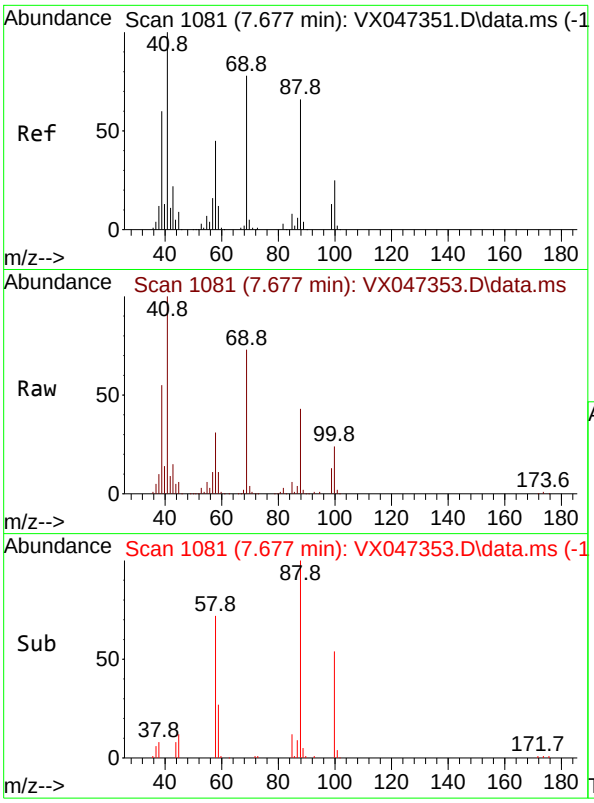


#48
Methyl methacrylate
Concen: 157.749 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 41 Resp: 473316

Ion	Ratio	Lower	Upper
41	100		
69	80.0	65.0	97.4
39	56.4	45.7	68.5

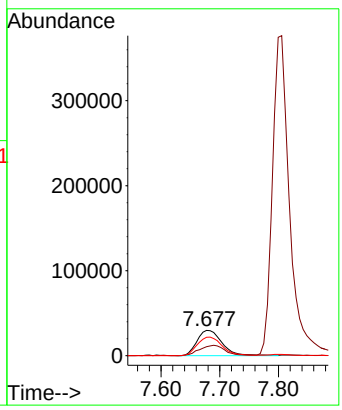




#49
1,4-Dioxane
Concen: 3105.263 ug/l
RT: 7.677 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 88 Resp: 8848

Ion	Ratio	Lower	Upper
88	100		
43	42.2	32.4	48.6
58	73.1	56.9	85.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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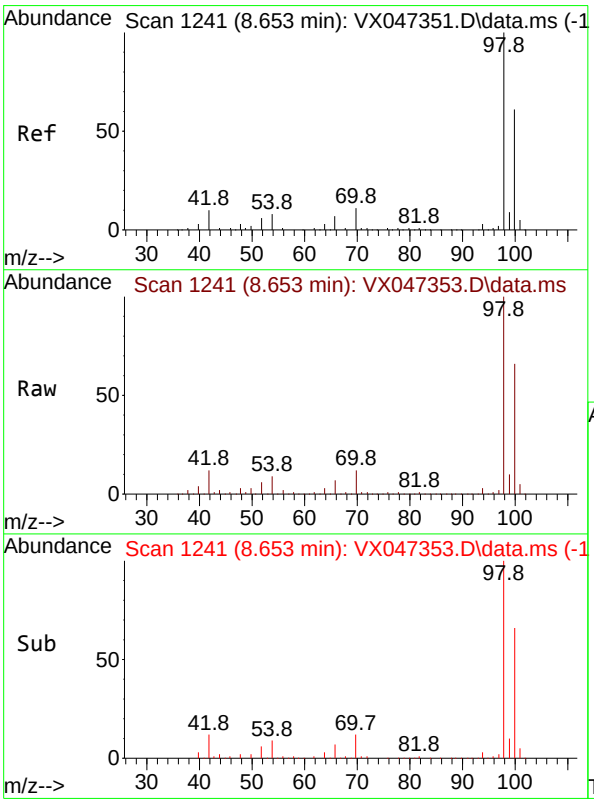
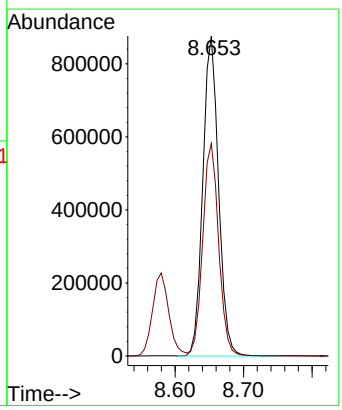
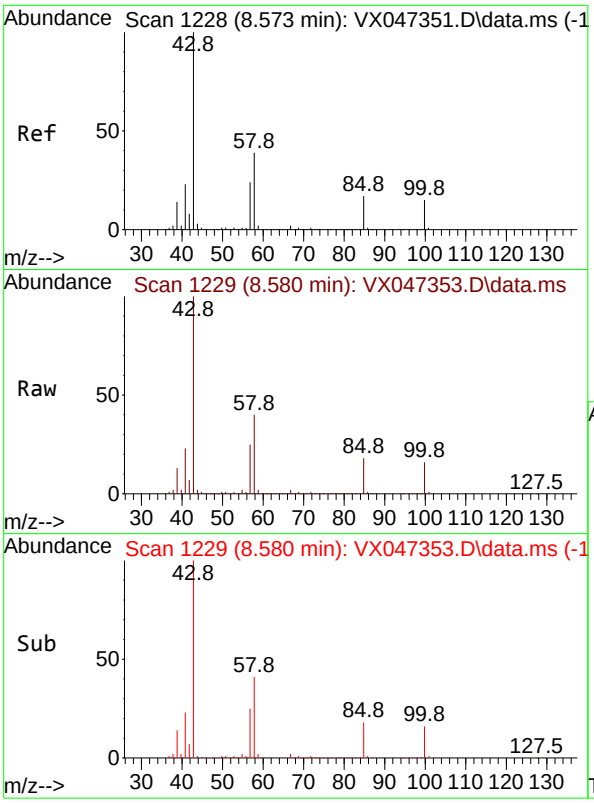


#50
Toluene-d8
Concen: 159.272 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 98 Resp: 1397755

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.9	80.9

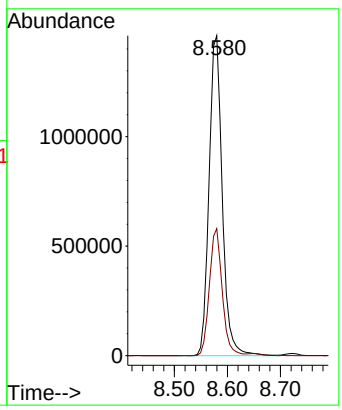




#51
4-Methyl-2-Pentanone
Concen: 757.992 ug/l
RT: 8.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 43 Resp: 252140

Ion	Ratio	Lower	Upper
43	100		
58	38.7	31.2	46.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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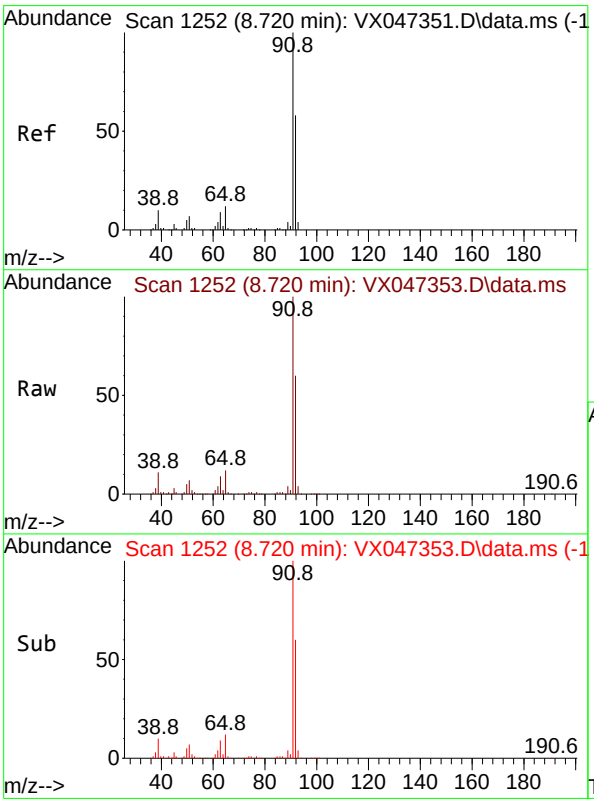
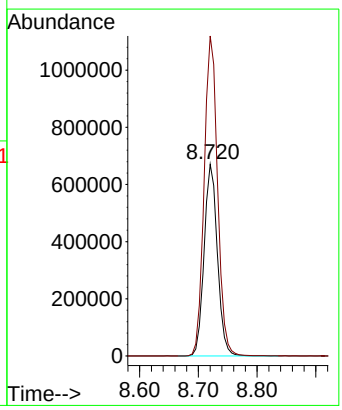
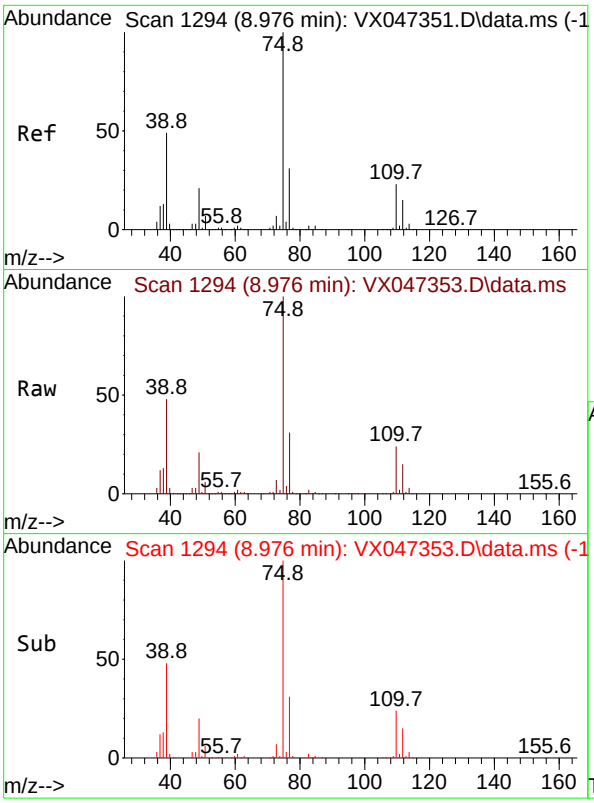


#52
Toluene
Concen: 146.750 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 92 Resp: 1052008

Ion	Ratio	Lower	Upper
92	100		
91	168.9	136.3	204.5

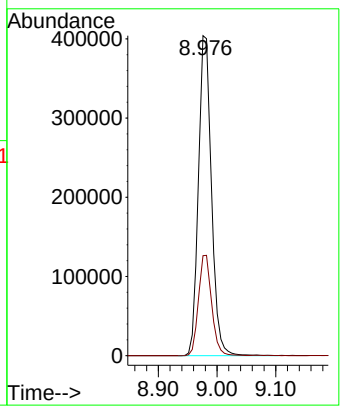




#53
t-1,3-Dichloropropene
Concen: 163.583 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 75 Resp: 62449

Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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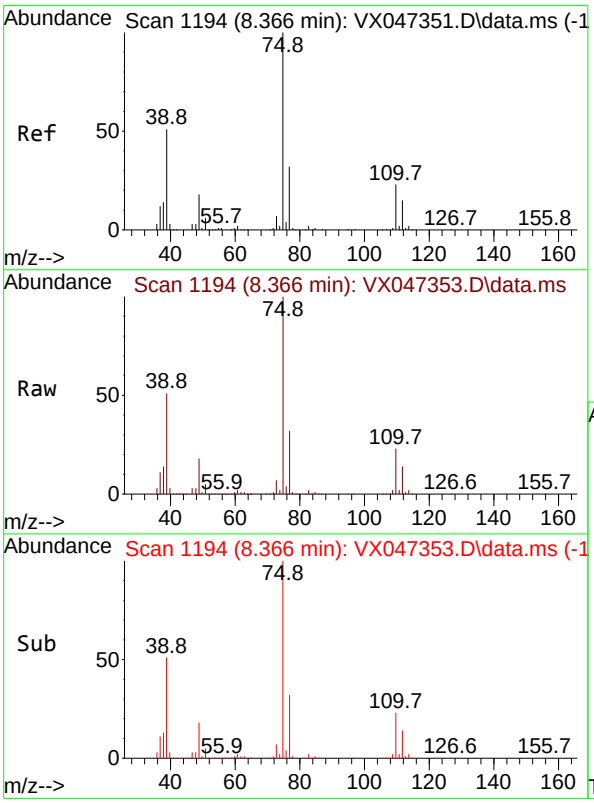
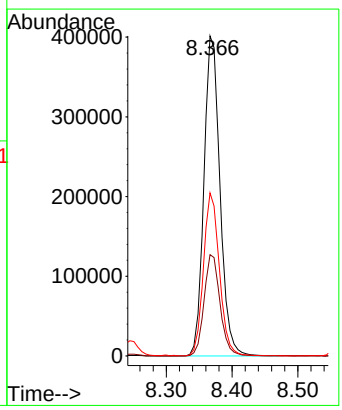
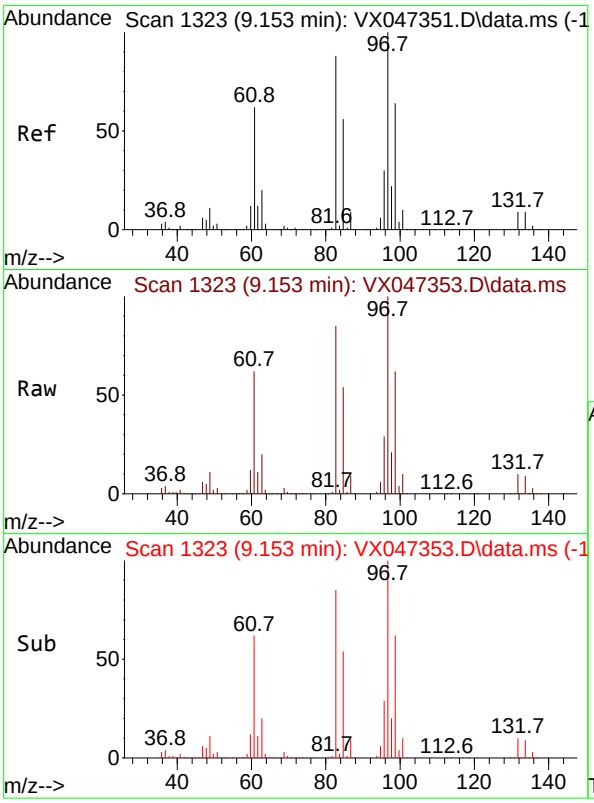


#54
cis-1,3-Dichloropropene
Concen: 158.029 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 75 Resp: 682860

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.6	38.4
39	50.9	40.9	61.3

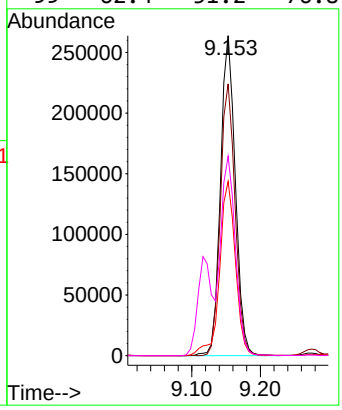




#55
1,1,2-Trichloroethane
Concen: 144.868 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 97 Resp: 39430

Ion	Ratio	Lower	Upper
97	100		
83	85.0	70.6	106.0
85	54.5	44.7	67.1
99	62.4	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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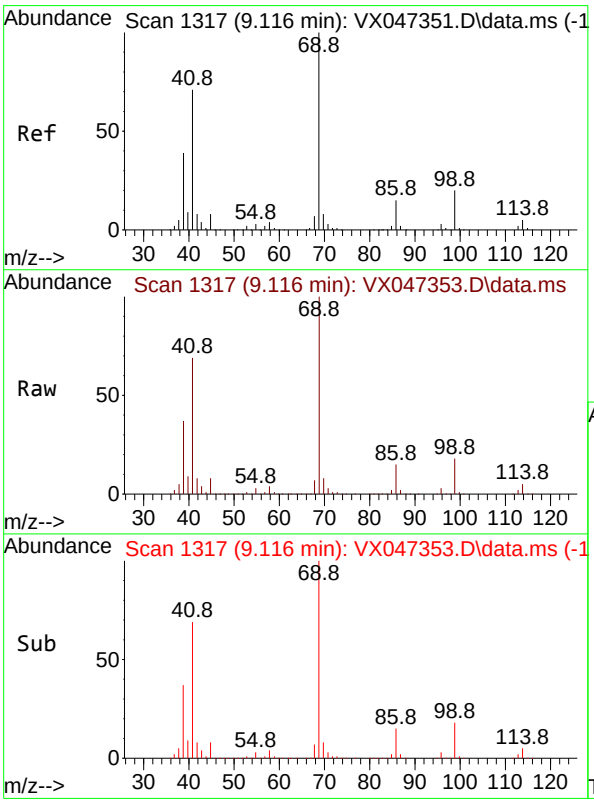
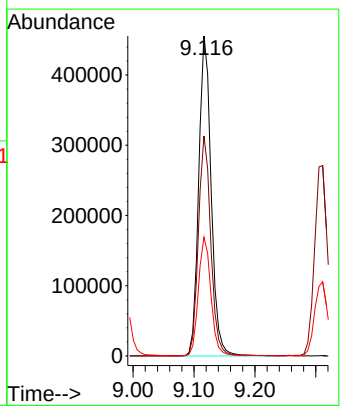
Supervised By :Mahesh Dadoda 08/19/2025

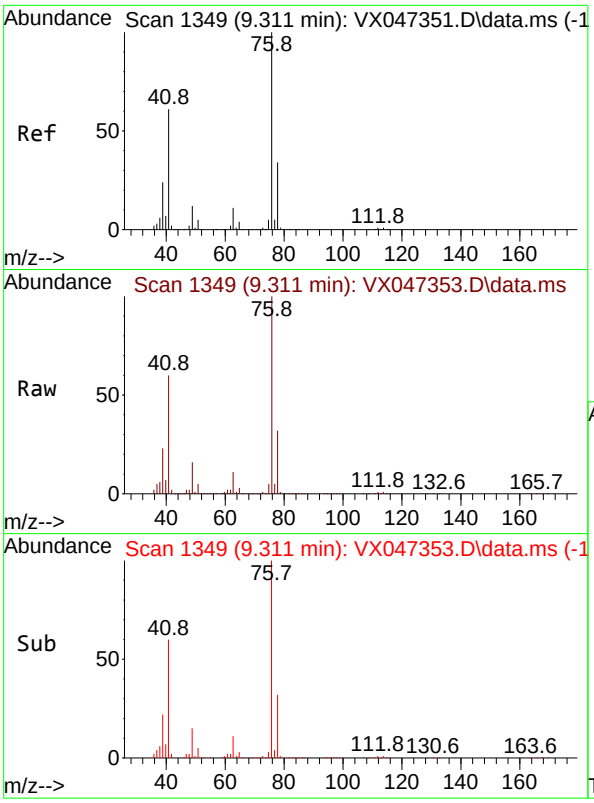


#56
Ethyl methacrylate
Concen: 161.020 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 69 Resp: 646154

Ion	Ratio	Lower	Upper
69	100		
41	68.4	55.3	82.9
39	37.1	30.2	45.2





#57
1,3-Dichloropropane
Concen: 144.911 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 76 Resp: 67208

Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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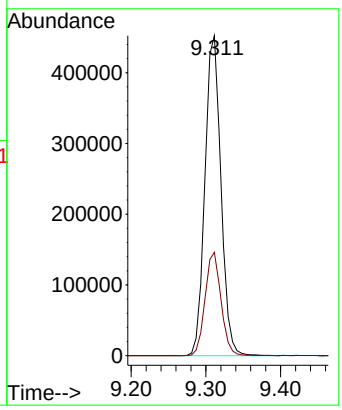
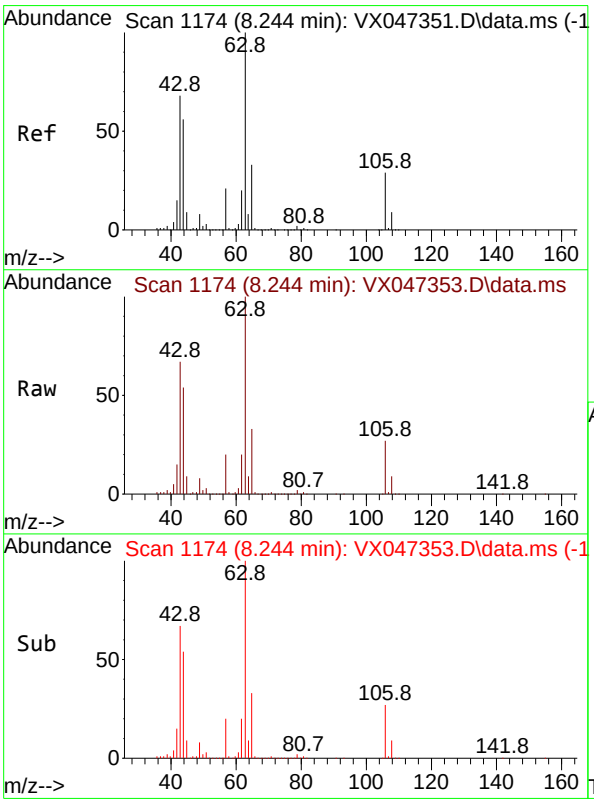
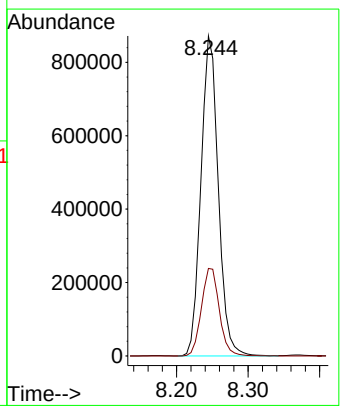


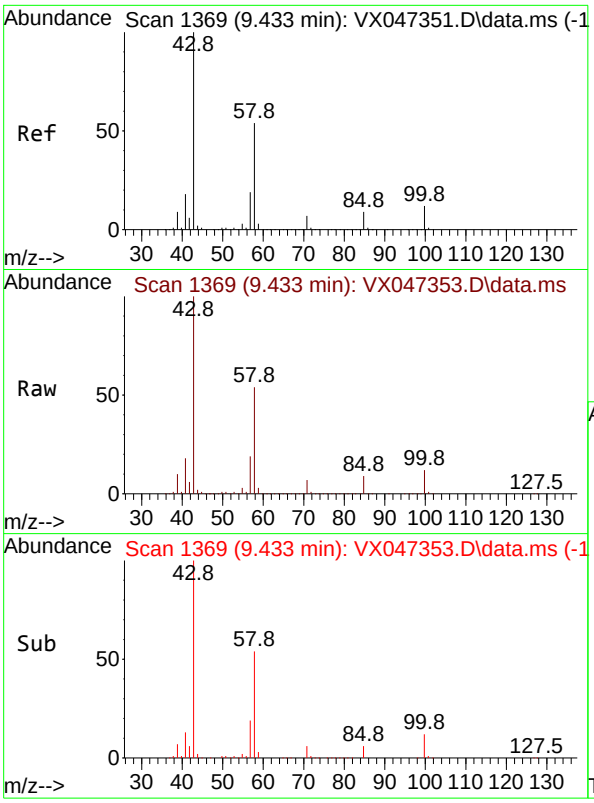


#58
2-Chloroethyl Vinyl ether
Concen: 748.853 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 63 Resp: 1468000

Ion	Ratio	Lower	Upper
63	100		
106	28.2	22.8	34.2

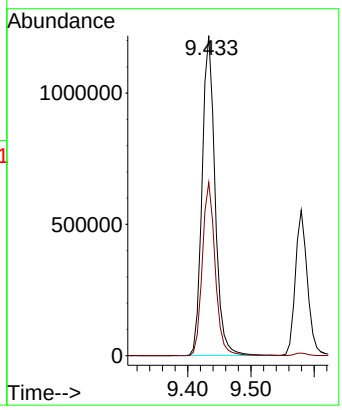




#59
2-Hexanone
Concen: 755.168 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 43 Resp: 173761

Ion	Ratio	Lower	Upper
43	100		
58	53.9	26.9	80.7



Instrument :
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ClientSampleId :
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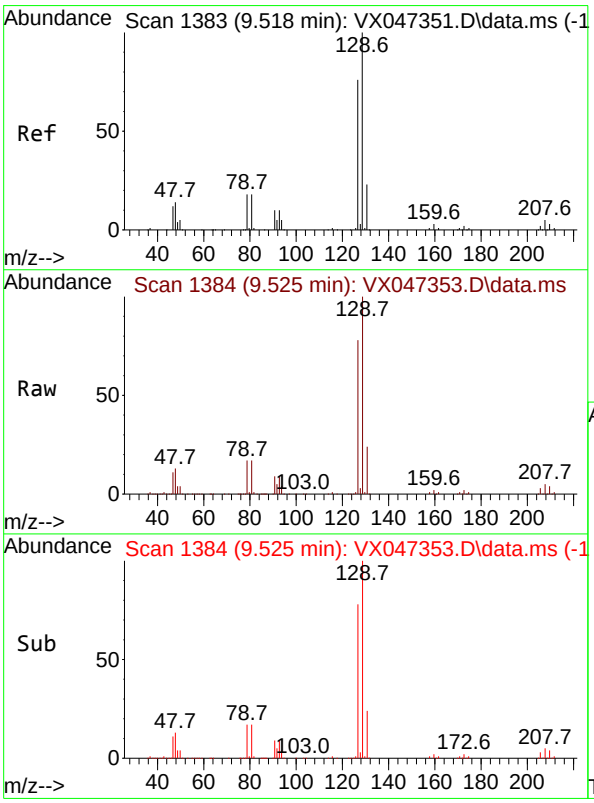
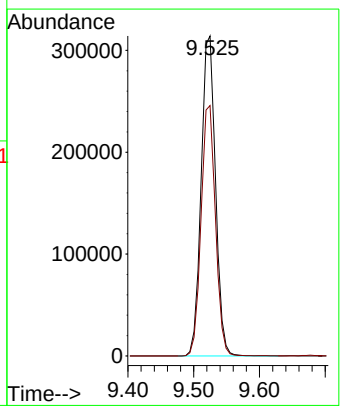
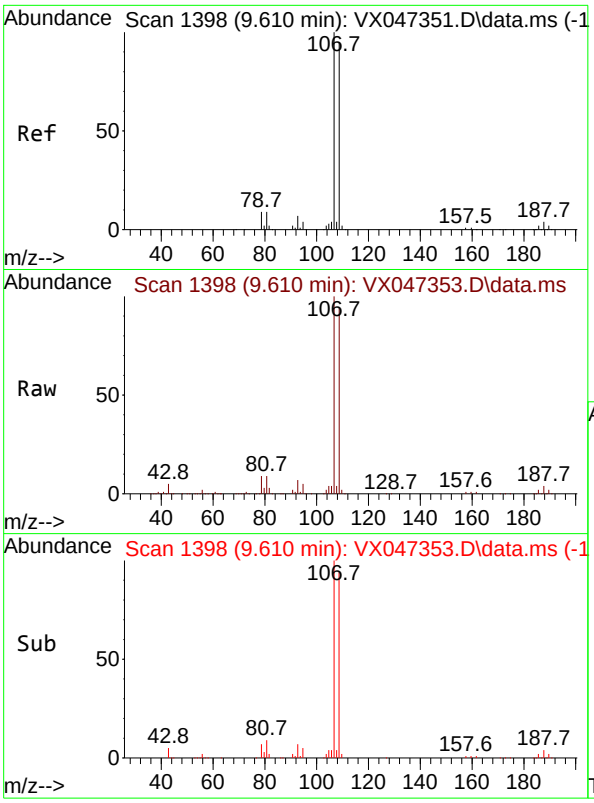


#60
Dibromochloromethane
Concen: 147.358 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:129 Resp: 476650

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.9	116.6

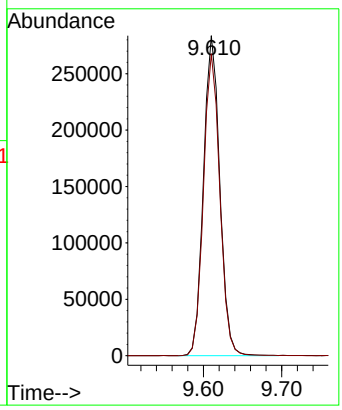




#61
1,2-Dibromoethane
Concen: 146.099 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:107 Resp: 41005

Ion	Ratio	Lower	Upper
107	100		
109	94.5	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
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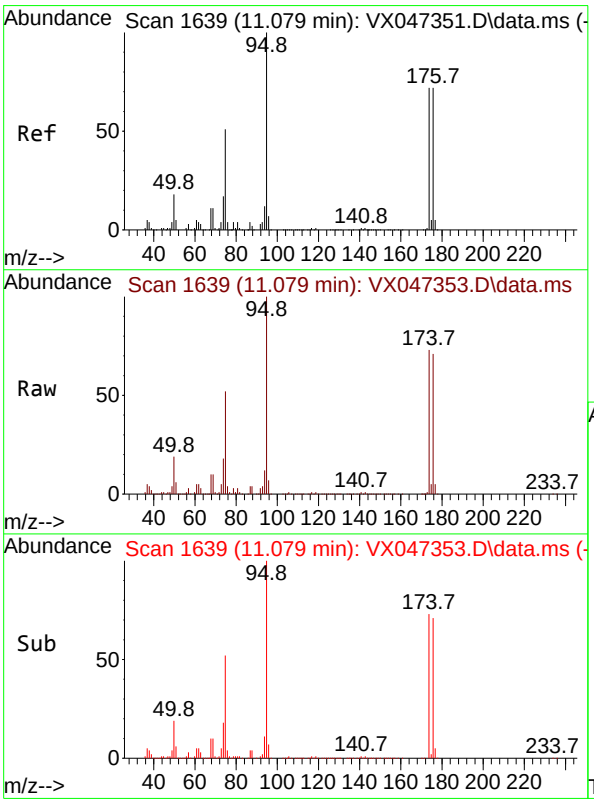
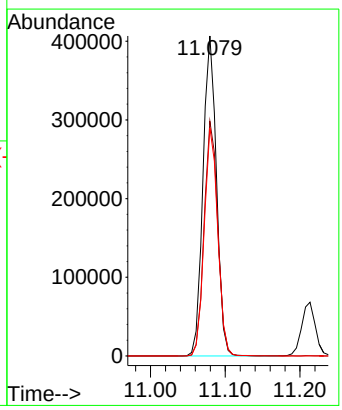
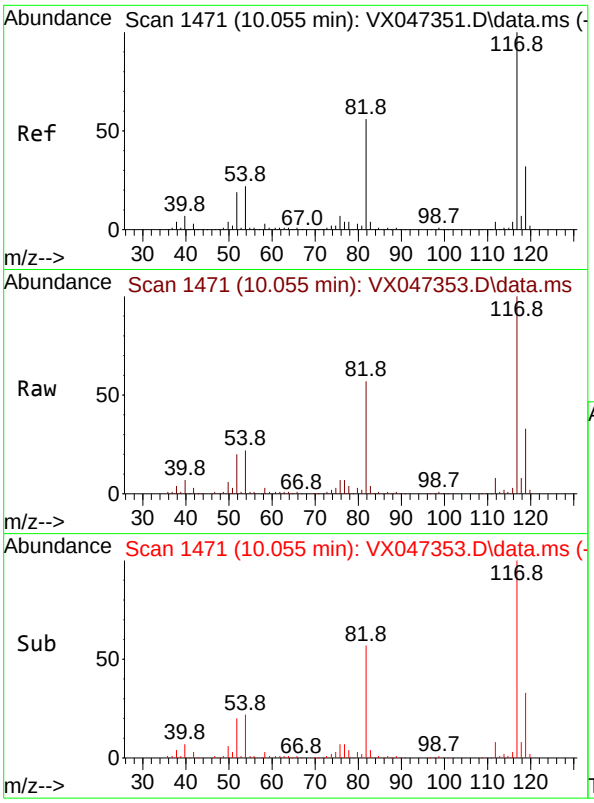


#62
4-Bromofluorobenzene
Concen: 157.125 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 95 Resp: 508844

Ion	Ratio	Lower	Upper
95	100		
174	74.2	0.0	148.0
176	71.3	0.0	145.4

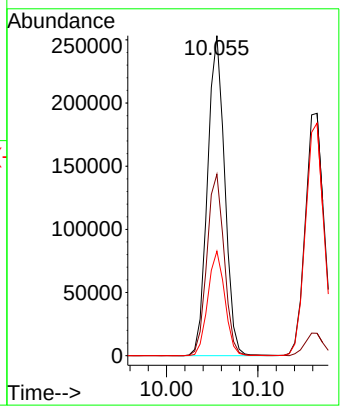




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:117 Resp: 33009

Ion	Ratio	Lower	Upper
117	100		
82	56.7	45.0	67.4
119	32.7	25.8	38.8



Instrument :
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ClientSampleId :
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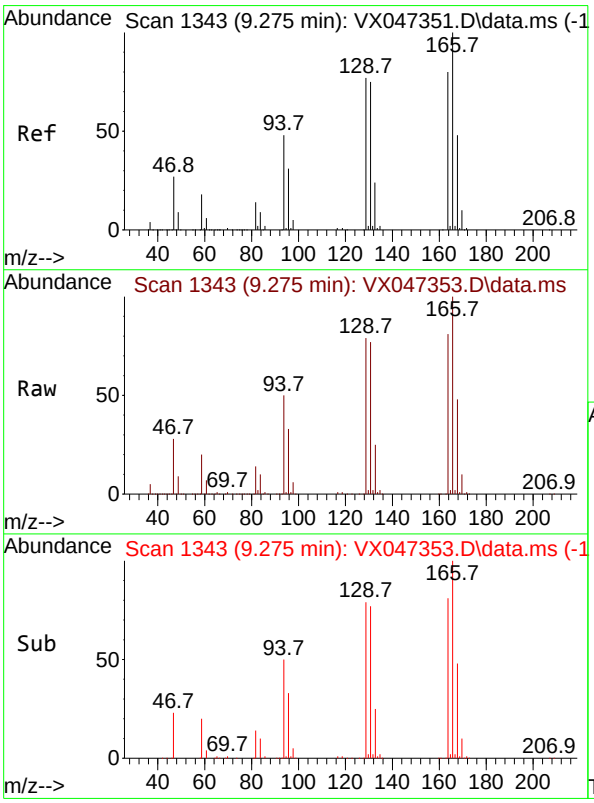
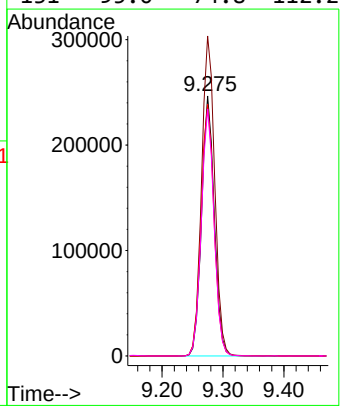
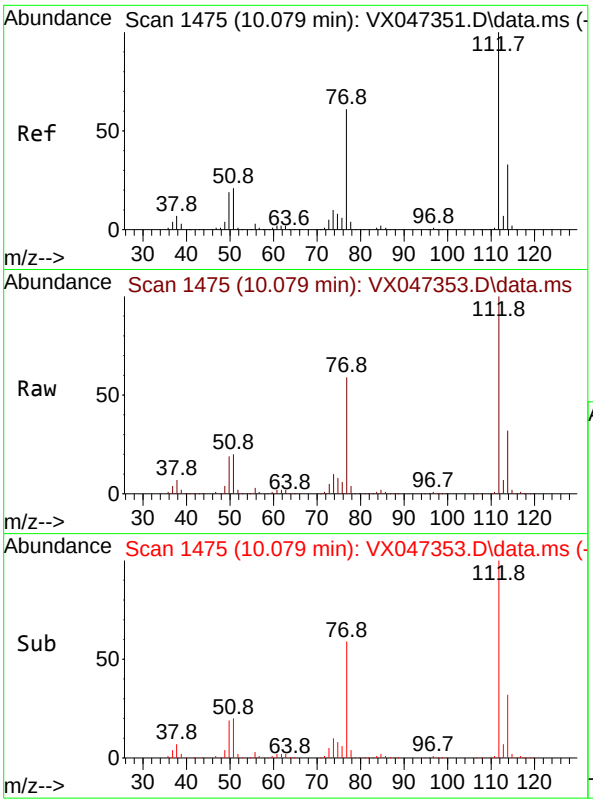


#64
Tetrachloroethene
Concen: 149.518 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:164 Resp: 356989

Ion	Ratio	Lower	Upper
164	100		
166	123.0	100.3	150.5
129	96.8	77.7	116.5
131	95.0	74.8	112.2

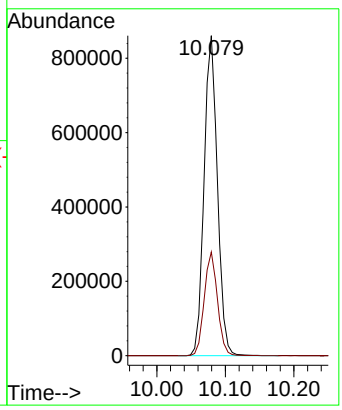




#65
Chlorobenzene
Concen: 148.370 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:112 Resp: 116384

Ion	Ratio	Lower	Upper
112	100		
114	32.4	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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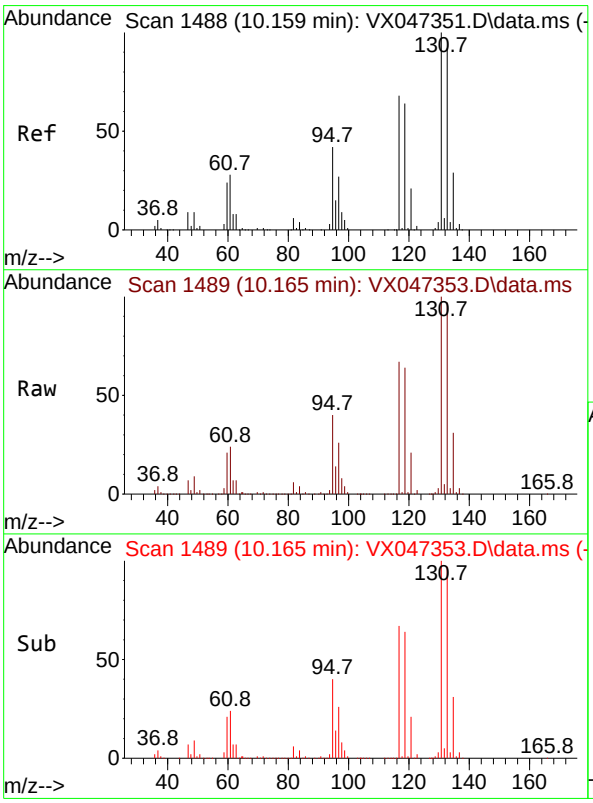
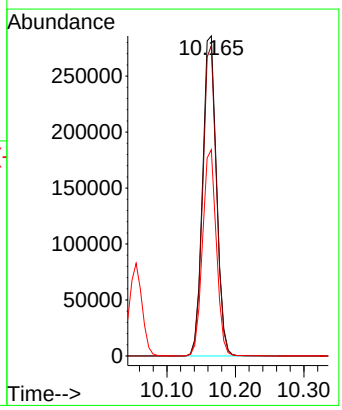
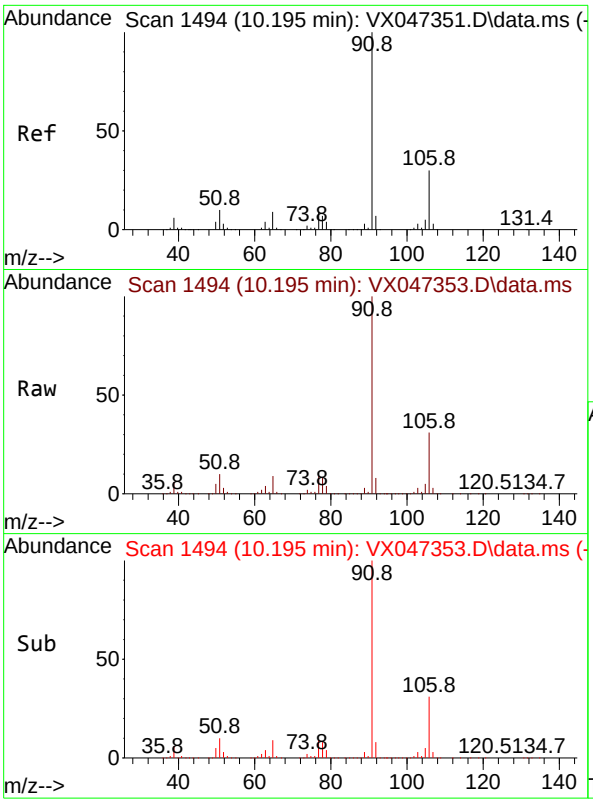


#66
1,1,1,2-Tetrachloroethane
Concen: 152.780 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:131 Resp: 405123

Ion	Ratio	Lower	Upper
131	100		
133	95.4	47.6	142.9
119	63.9	32.3	96.8

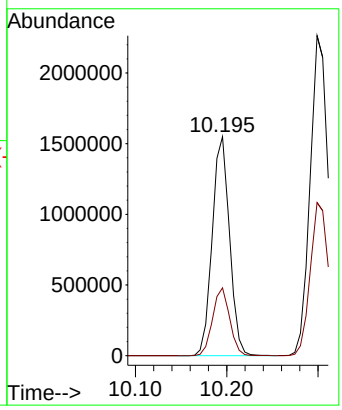




#67
Ethyl Benzene
Concen: 150.823 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 91 Resp: 203627

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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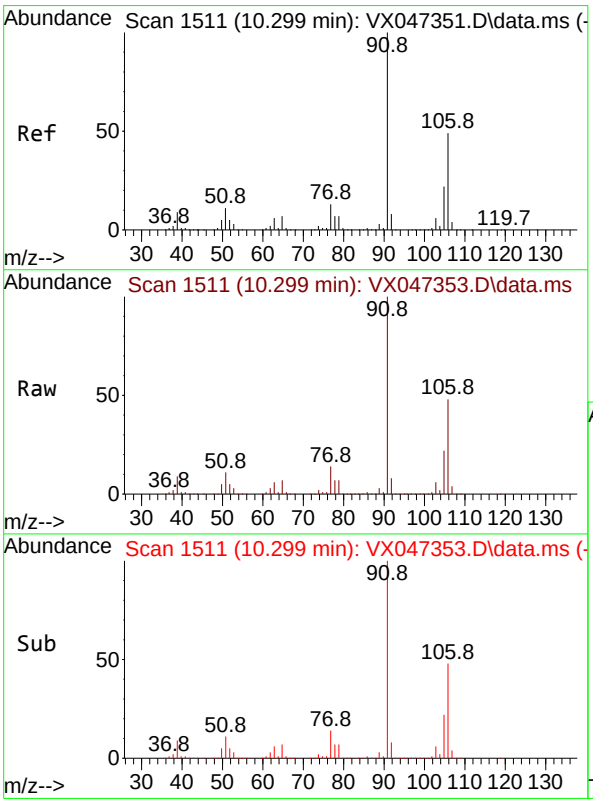
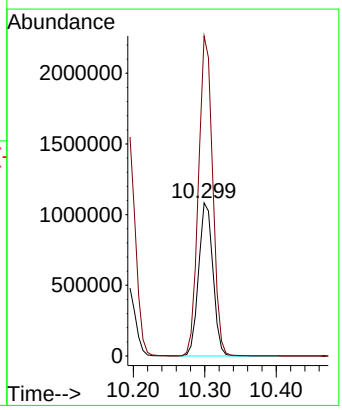
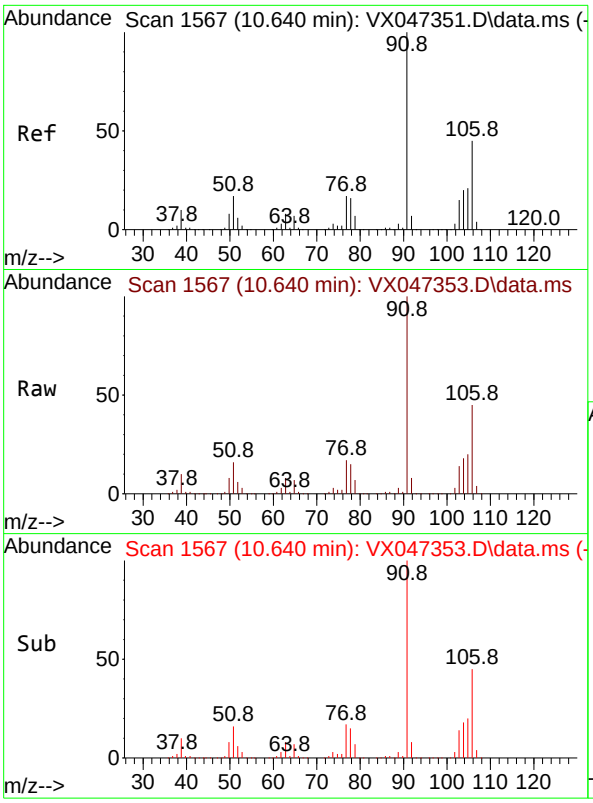


#68
m/p-Xylenes
Concen: 298.466 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:106 Resp: 1502542

Ion	Ratio	Lower	Upper
106	100		
91	207.4	164.7	247.1

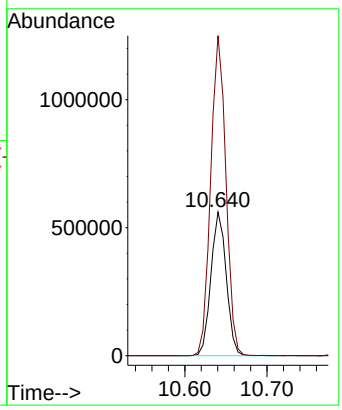




#69
o-Xylene
Concen: 149.683 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:106 Resp: 72515

Ion	Ratio	Lower	Upper
106	100		
91	221.6	110.6	331.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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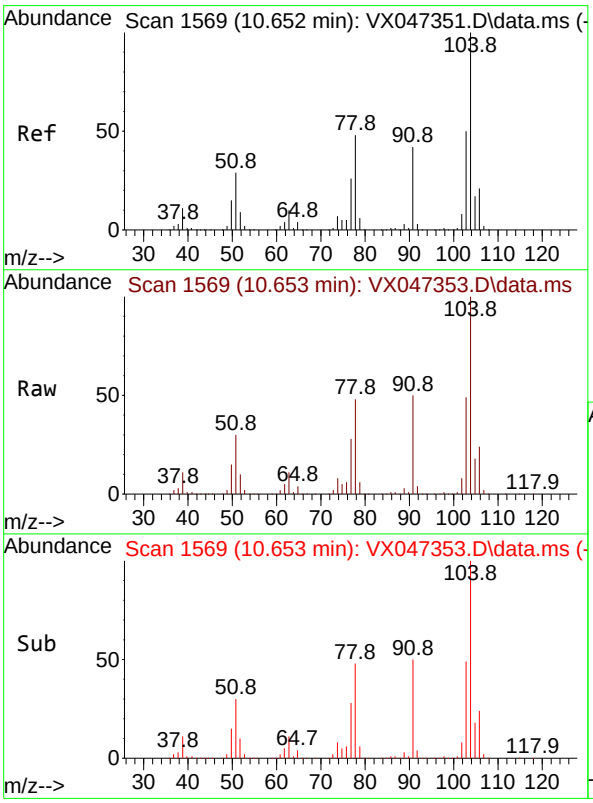
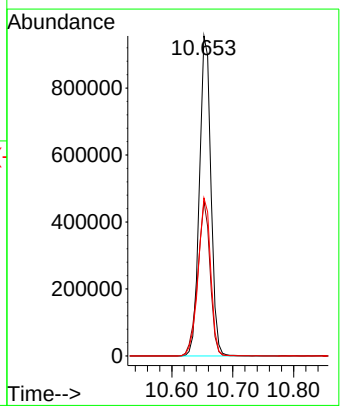
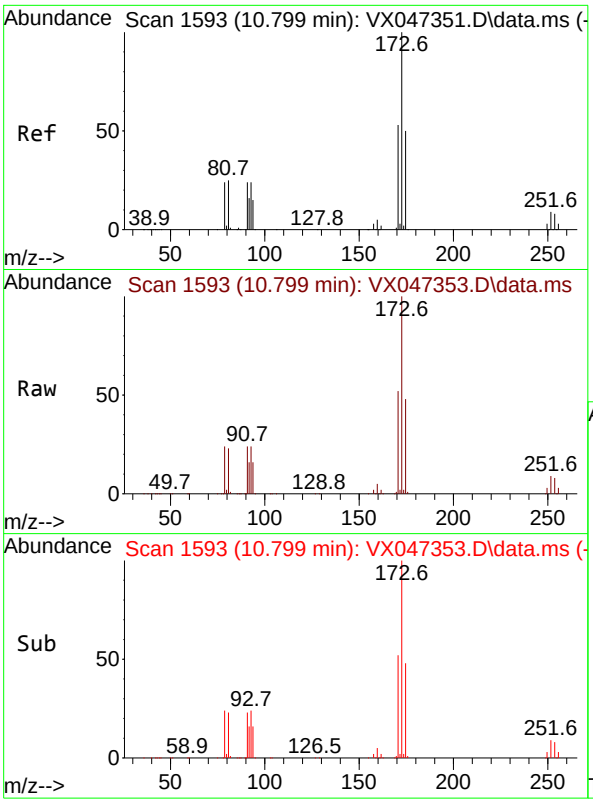


#70
Styrene
Concen: 153.150 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:104 Resp: 1253652

Ion	Ratio	Lower	Upper
104	100		
78	52.1	41.8	62.8
103	53.9	43.6	65.4

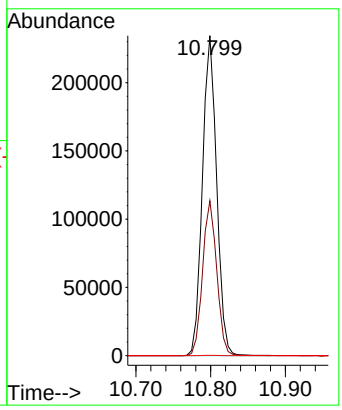




#71
Bromoform
Concen: 155.427 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:173 Resp: 30962

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.4	73.4
254	0.1	0.1	0.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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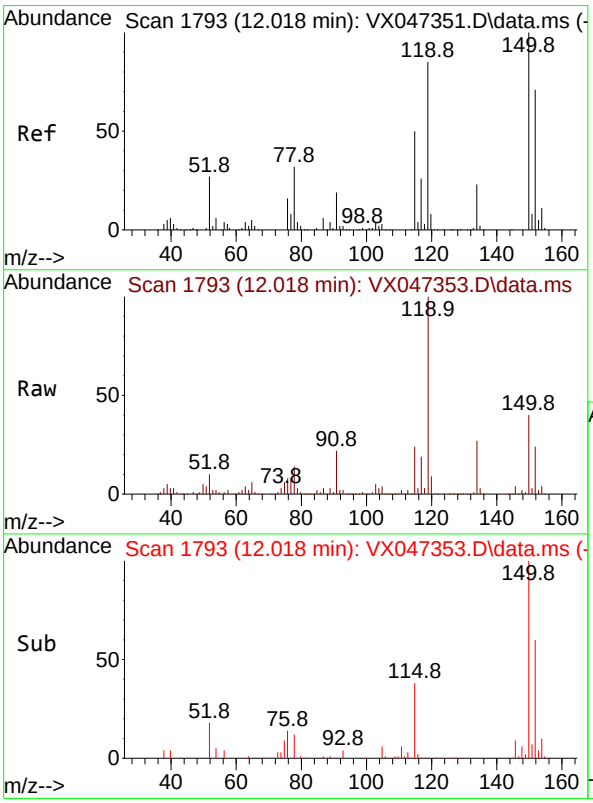
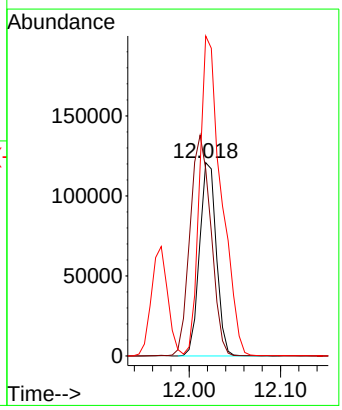
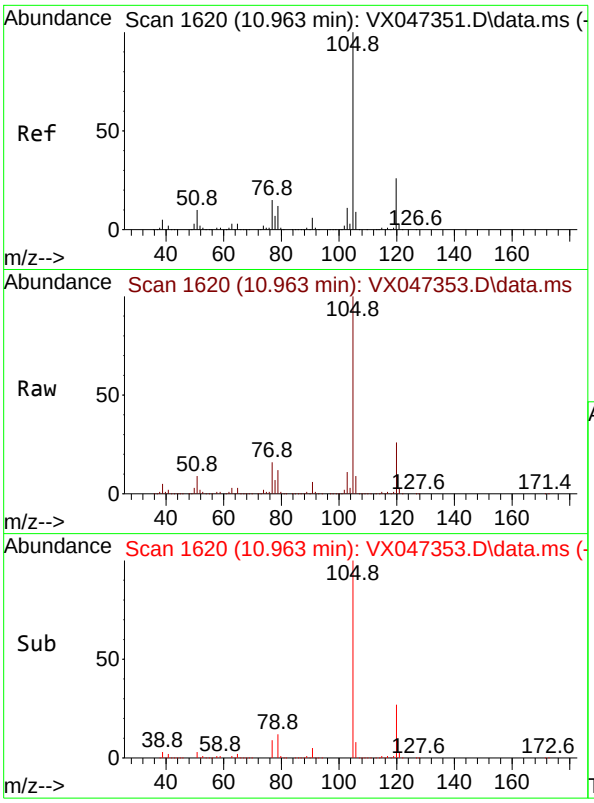


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:152 Resp: 153878

Ion	Ratio	Lower	Upper
152	100		
115	142.6	44.6	133.8#
150	214.2	0.0	349.8

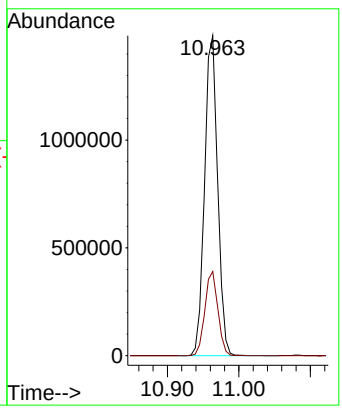




#73
Isopropylbenzene
Concen: 156.417 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:105 Resp: 188352

Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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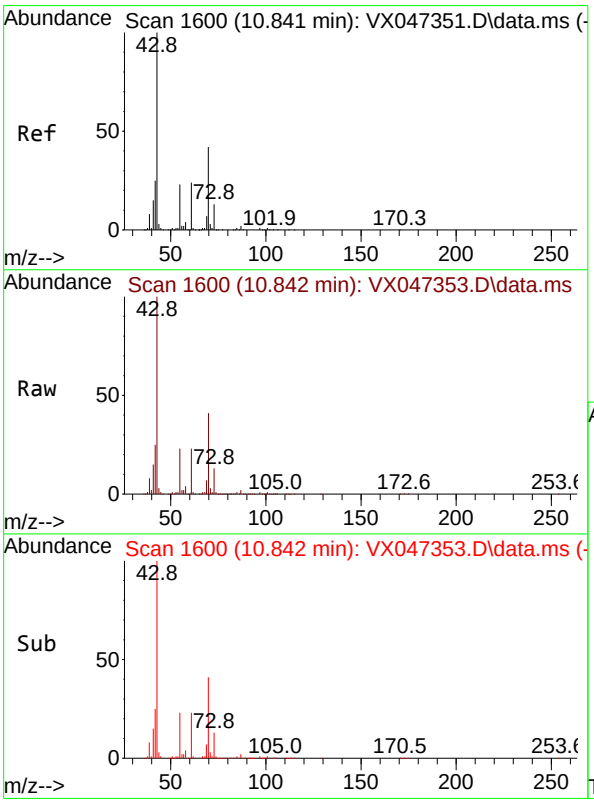
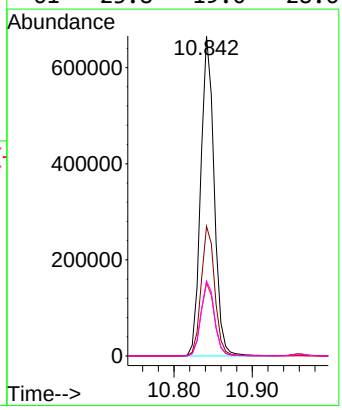
Supervised By :Mahesh Dadoda 08/19/2025

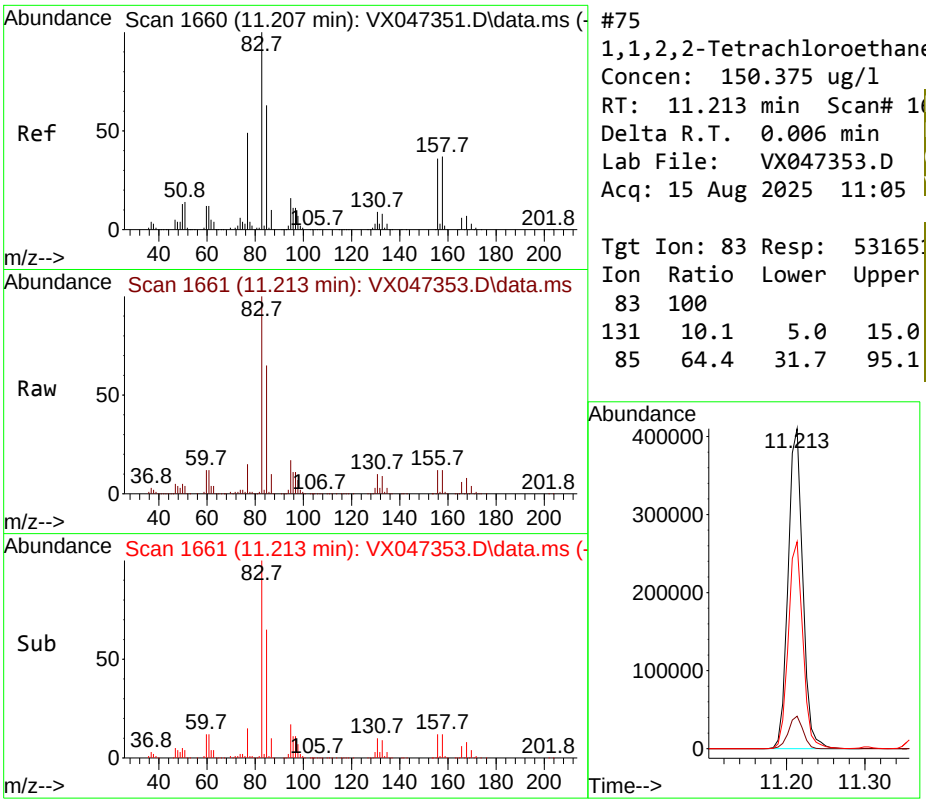


#74
N-amyl acetate
Concen: 172.791 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 43 Resp: 790124

Ion	Ratio	Lower	Upper
43	100		
70	41.1	33.1	49.7
55	23.3	19.0	28.6
61	23.8	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 150.375 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 83 Resp: 53165

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	15.0
85	64.4	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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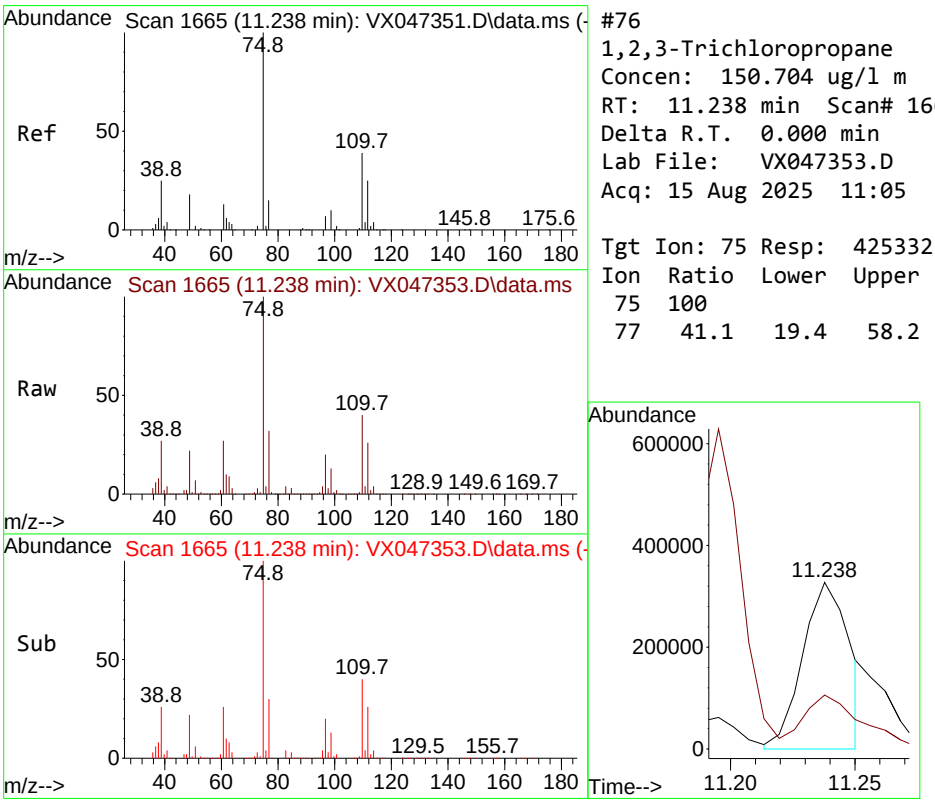
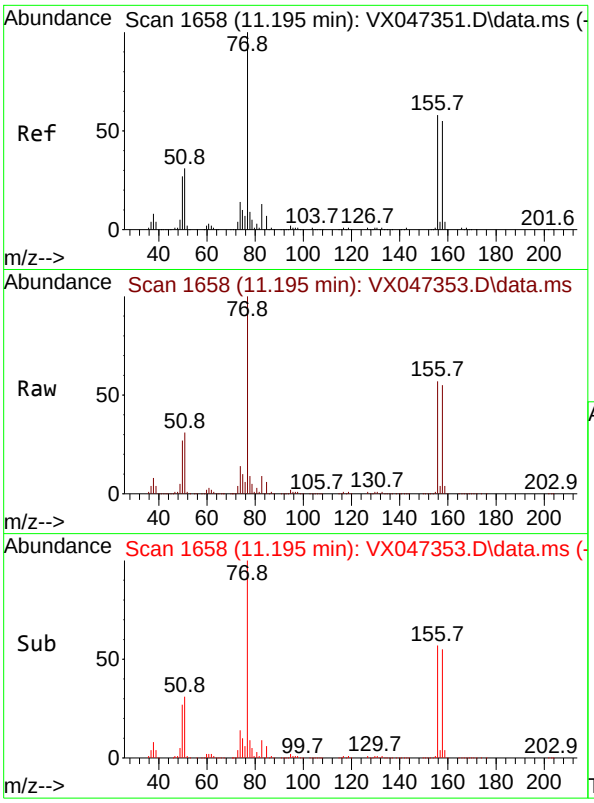


#76
1,2,3-Trichloropropane
Concen: 150.704 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 75 Resp: 425332

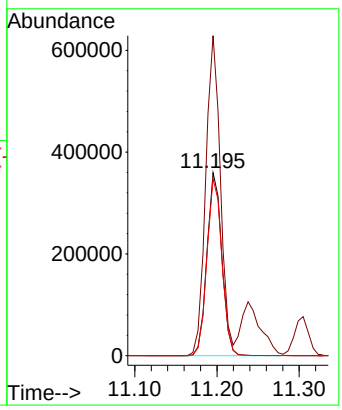
Ion	Ratio	Lower	Upper
75	100		
77	41.1	19.4	58.2



#77
Bromobenzene
Concen: 153.378 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:156 Resp: 45100

Ion	Ratio	Lower	Upper
156	100		
77	172.9	86.3	258.9
158	97.4	48.0	144.2



Instrument :
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ClientSampleId :
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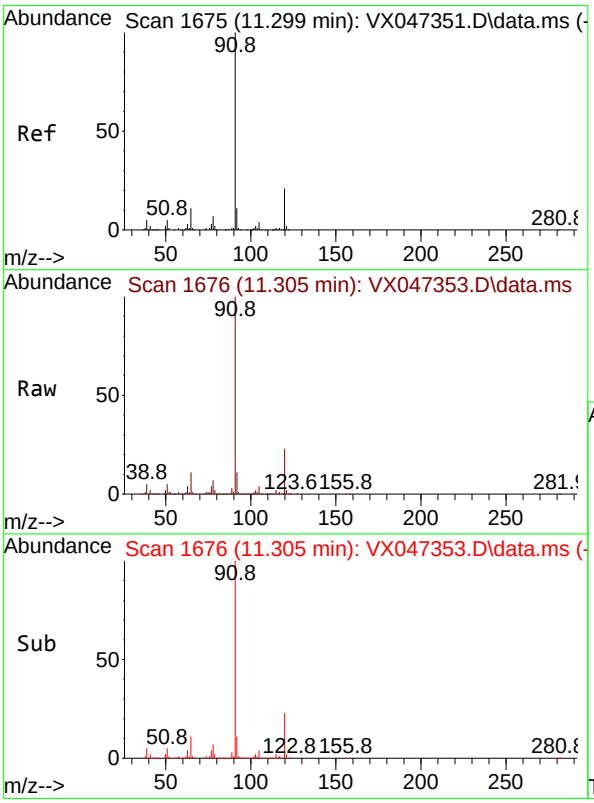
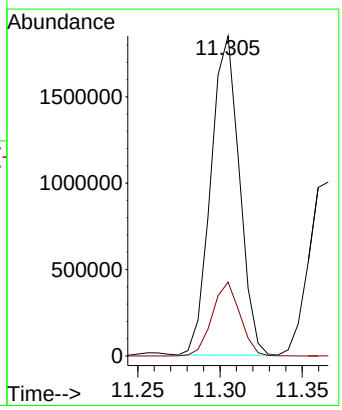
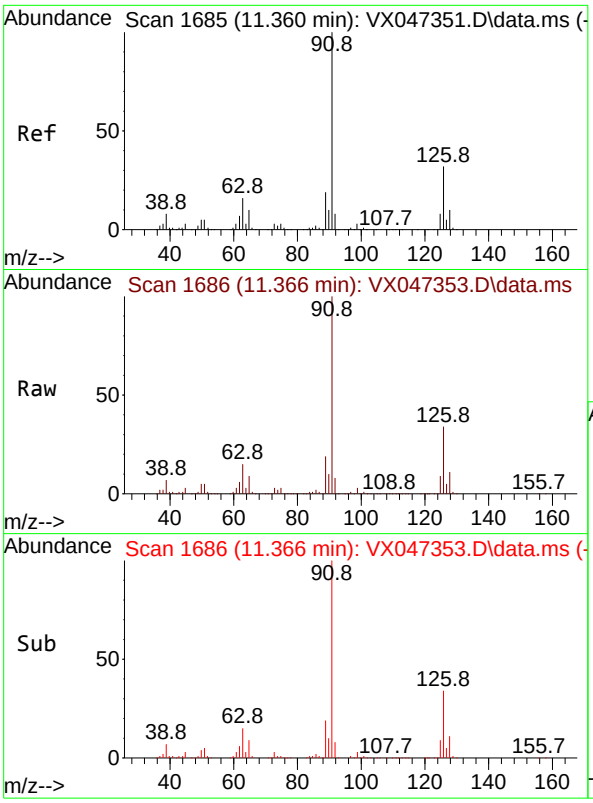


#78
n-propylbenzene
Concen: 155.473 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 91 Resp: 2235938

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.0	33.0

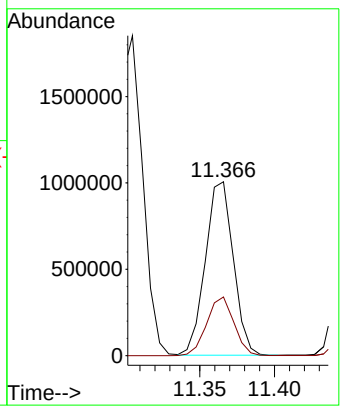




#79
2-Chlorotoluene
Concen: 150.272 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 91 Resp: 130641

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.7	50.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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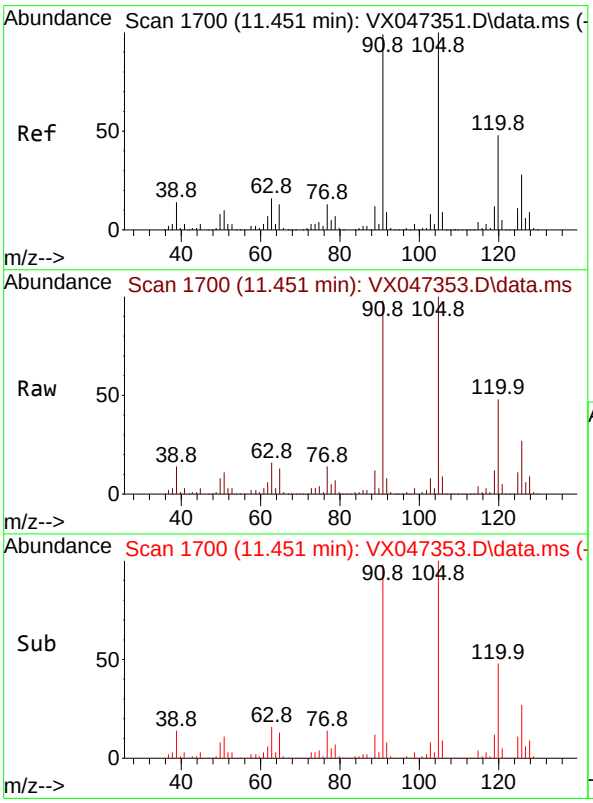
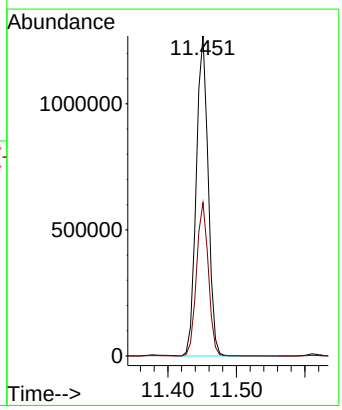
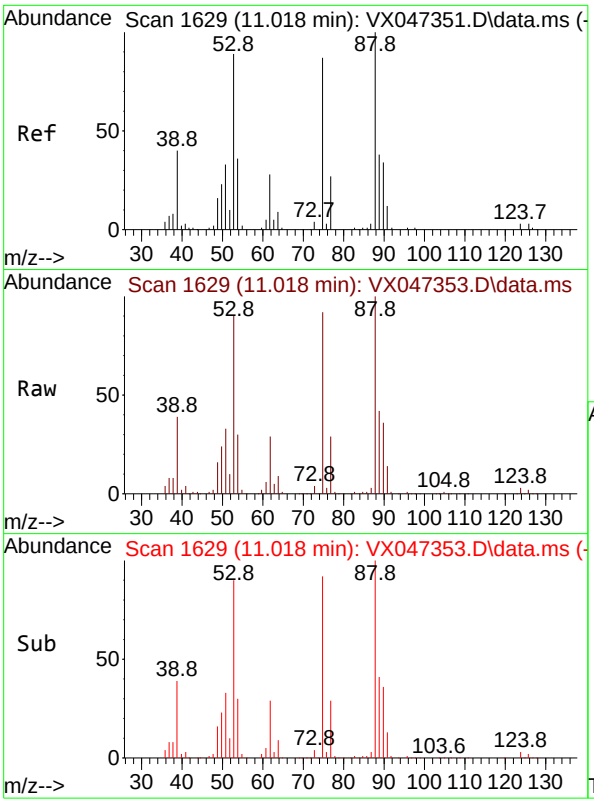


#80
1,3,5-Trimethylbenzene
Concen: 155.110 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:105 Resp: 1536791

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.9	71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 154.967 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 75 Resp: 11333

Ion	Ratio	Lower	Upper
75	100		
53	101.8	85.2	127.8
89	45.9	36.7	55.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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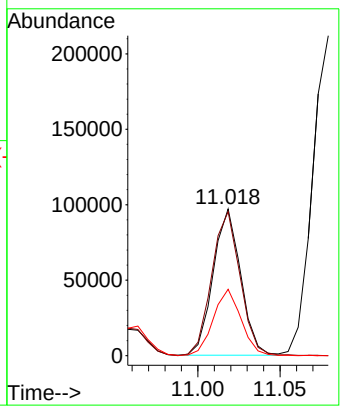
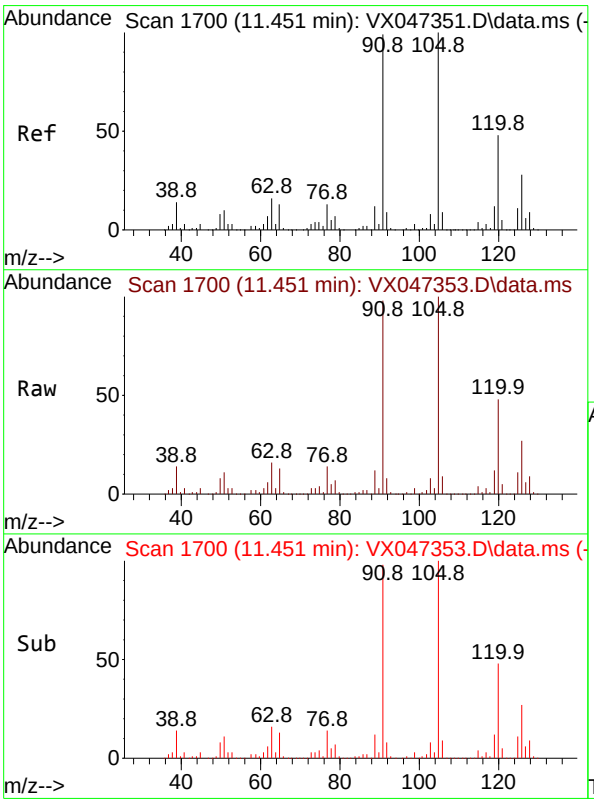
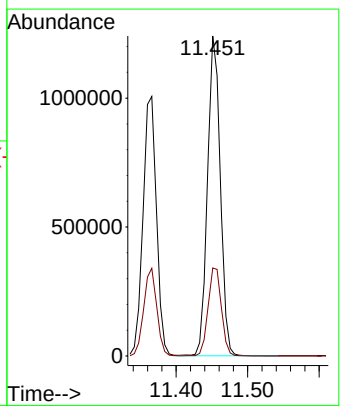


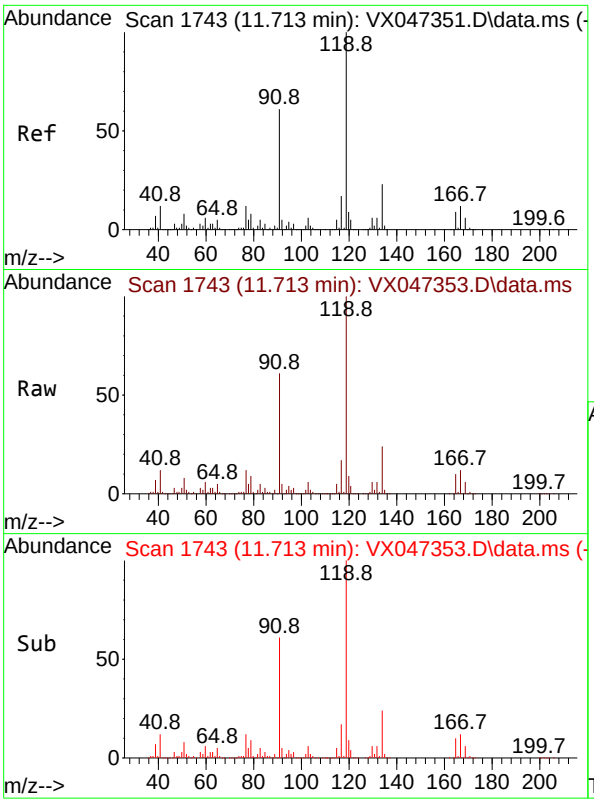


#82
4-Chlorotoluene
Concen: 150.376 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 91 Resp: 1541070

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.4	43.0

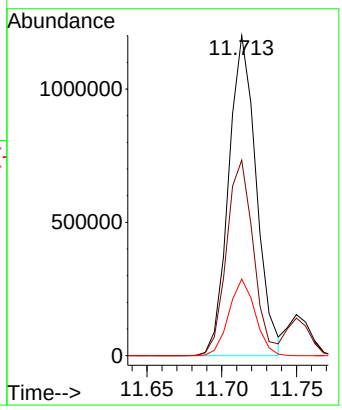




#83
tert-Butylbenzene
Concen: 156.062 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:119 Resp: 154262

Ion	Ratio	Lower	Upper
119	100		
91	59.8	29.1	87.4
134	22.8	11.3	33.9



Instrument :
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ClientSampleId :
VSTDICC150

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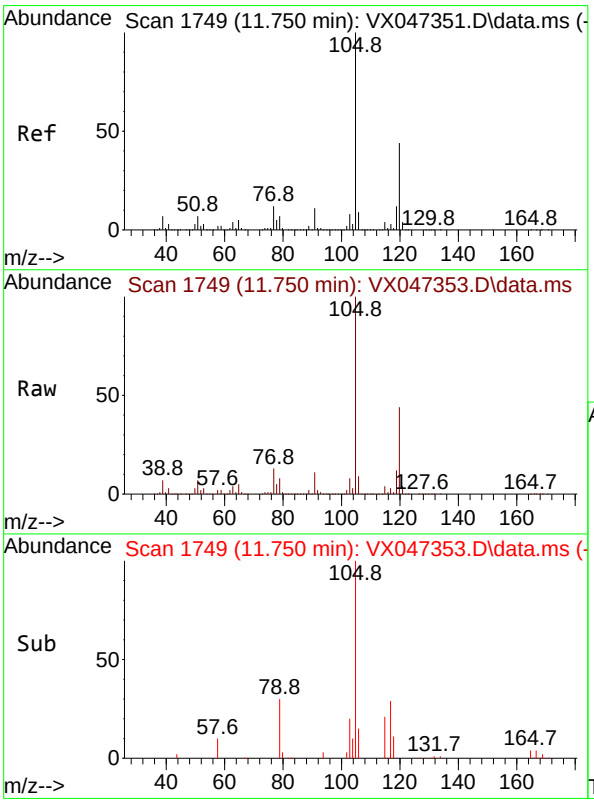
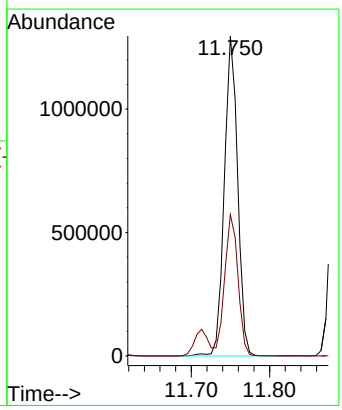
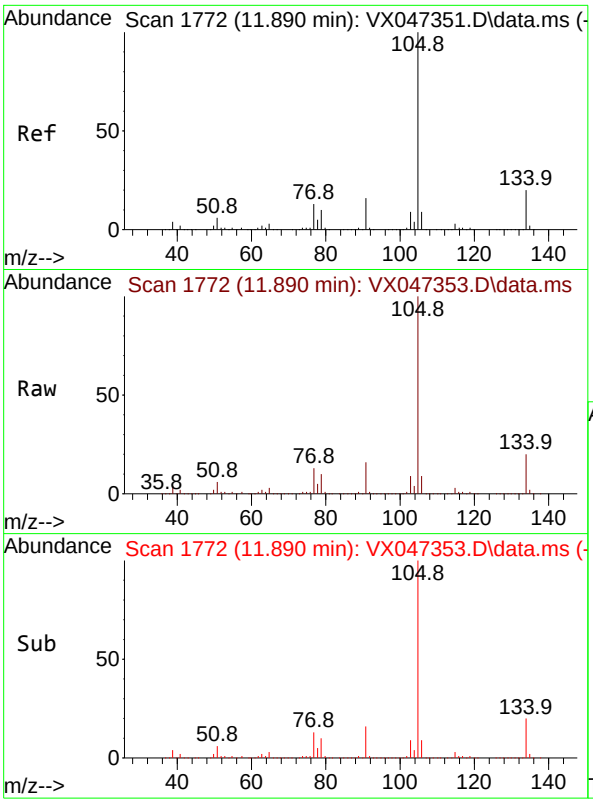


#84
1,2,4-Trimethylbenzene
Concen: 154.952 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:105 Resp: 1535261

Ion	Ratio	Lower	Upper
105	100		
120	44.5	21.9	65.7

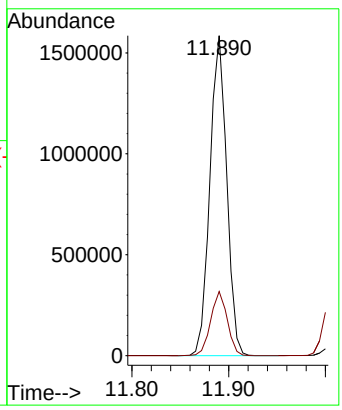




#85
sec-Butylbenzene
Concen: 156.078 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:105 Resp: 191222

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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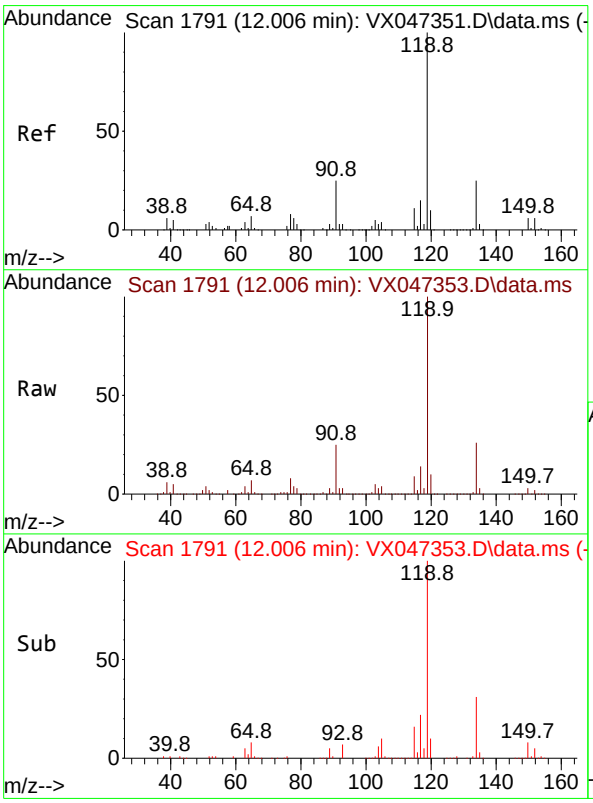
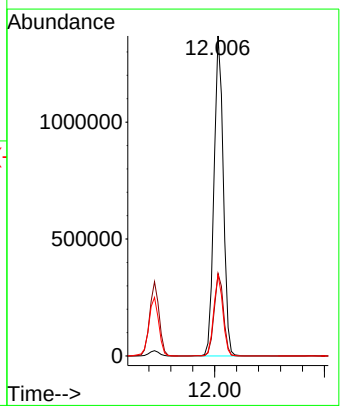
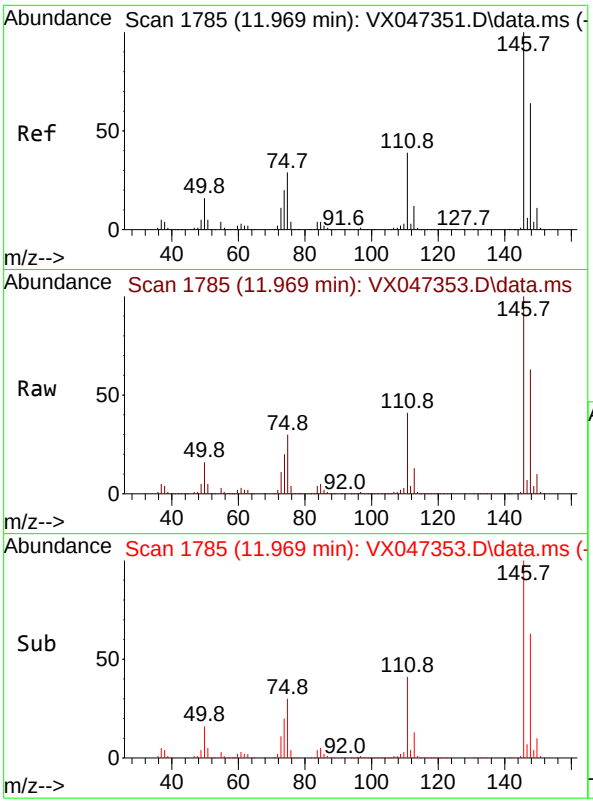


#86
p-Isopropyltoluene
Concen: 154.459 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:119 Resp: 1601345

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.8	38.4
91	24.9	12.4	37.4

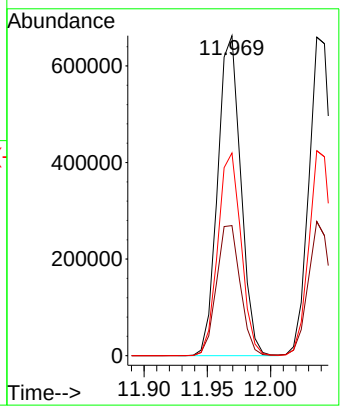




#87
1,3-Dichlorobenzene
Concen: 149.783 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:146 Resp: 84139

Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.6	61.8
148	63.8	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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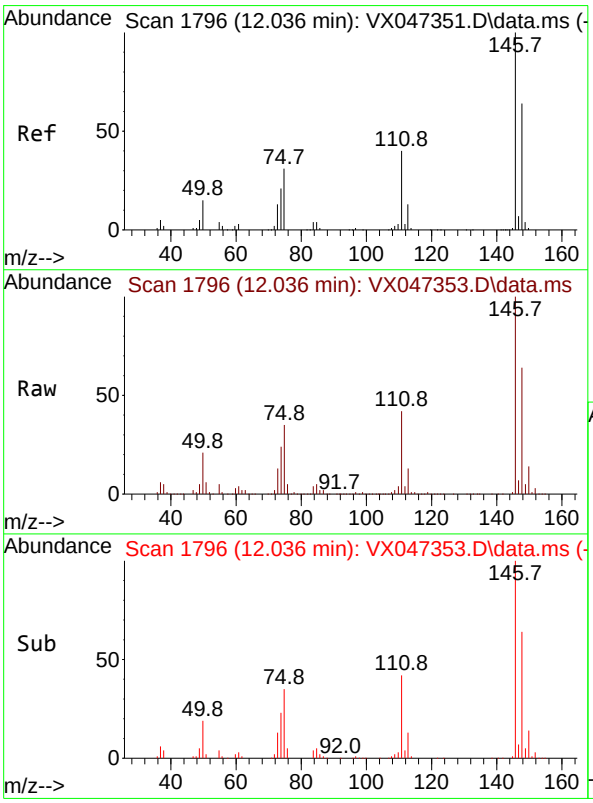
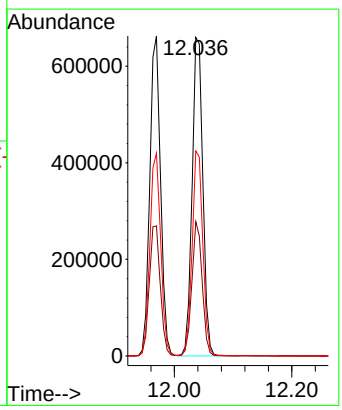
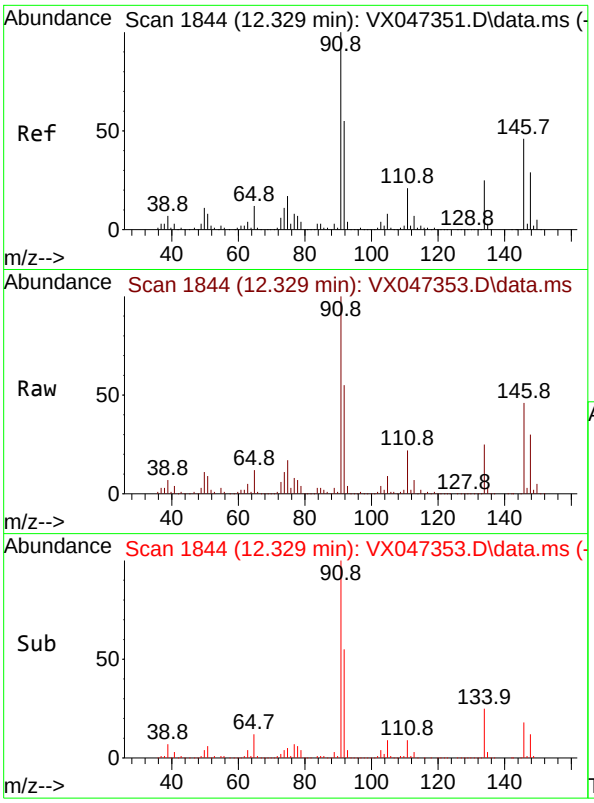


#88
1,4-Dichlorobenzene
Concen: 144.939 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:146 Resp: 837395

Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.4	61.2
148	63.7	31.7	95.1

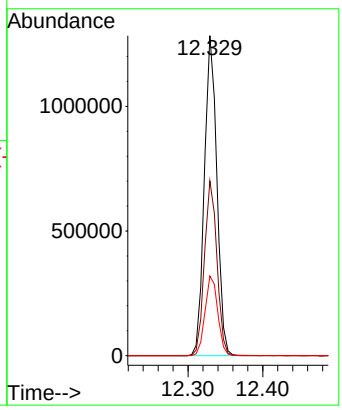




#89
n-Butylbenzene
Concen: 154.462 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 91 Resp: 148947

Ion	Ratio	Lower	Upper
91	100		
92	54.7	27.2	81.5
134	25.4	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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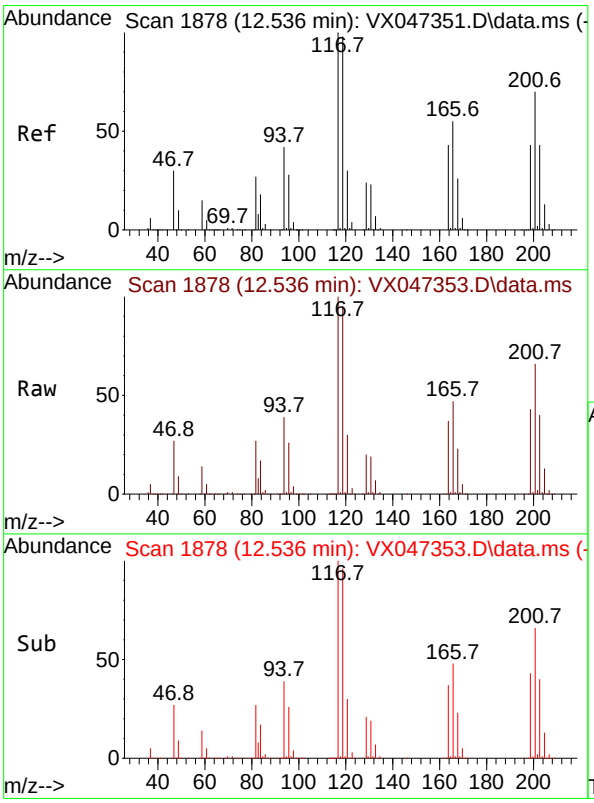
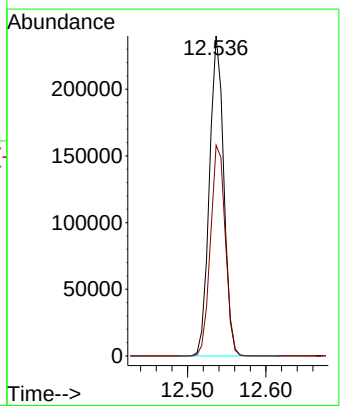
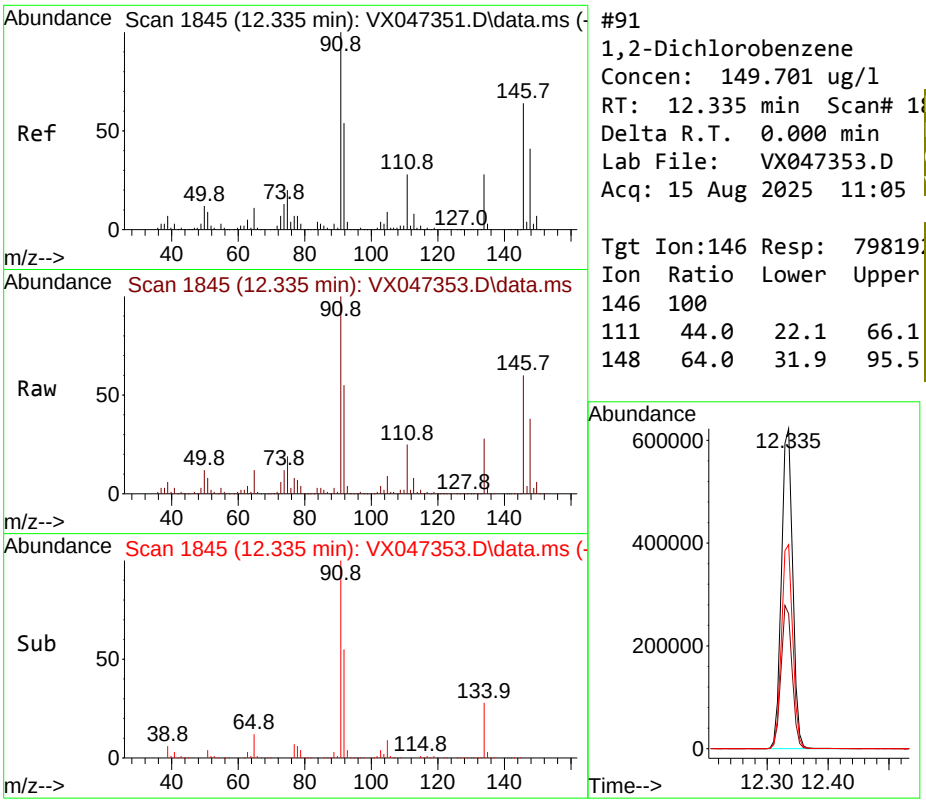


#90
Hexachloroethane
Concen: 166.757 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:117 Resp: 303295

Ion	Ratio	Lower	Upper
117	100		
201	68.6	35.1	105.3





#91
1,2-Dichlorobenzene
Concen: 149.701 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:146 Resp: 79819

Ion	Ratio	Lower	Upper
146	100		
111	44.0	22.1	66.1
148	64.0	31.9	95.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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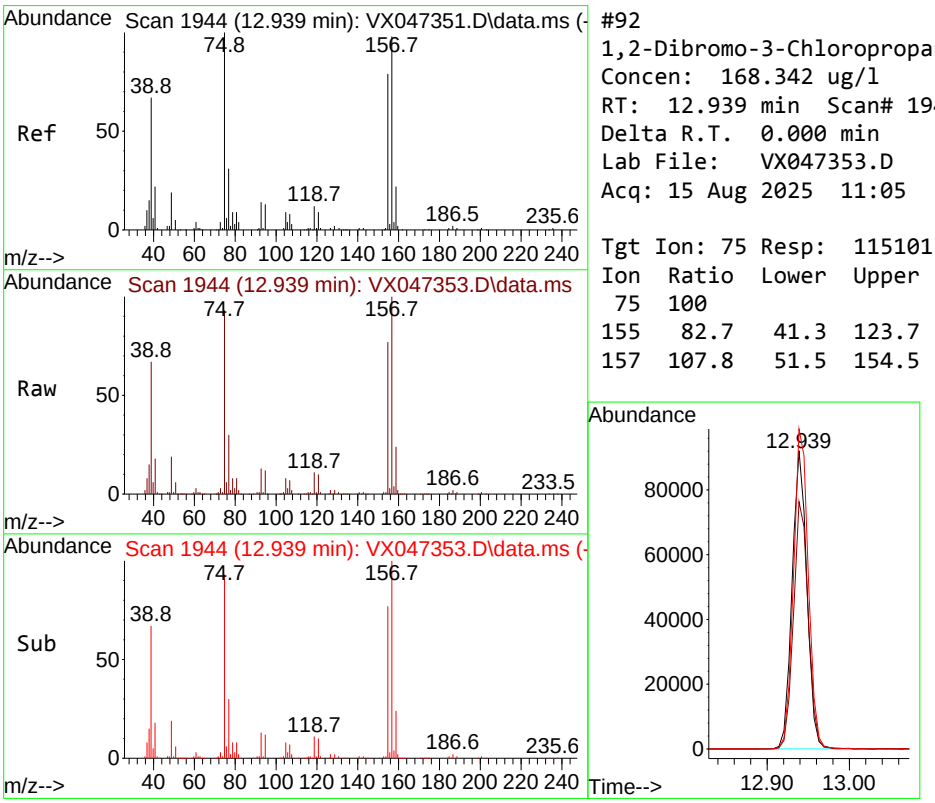
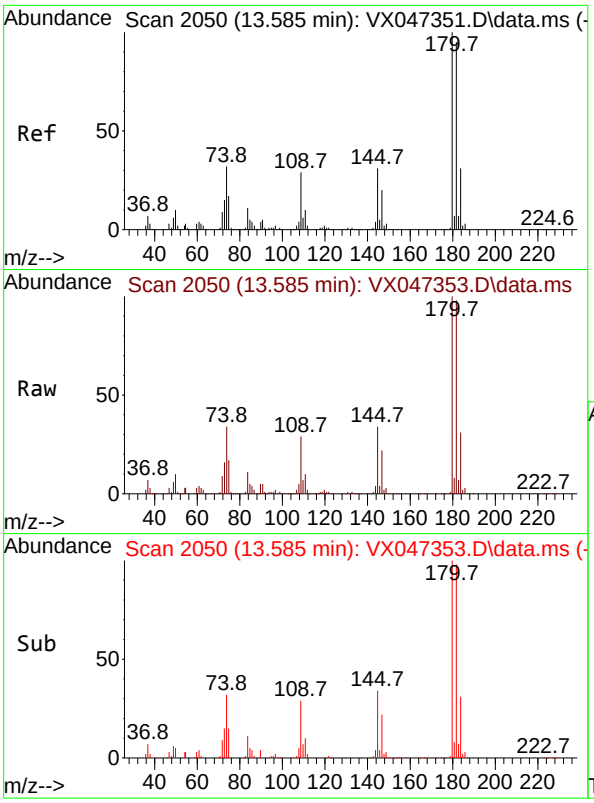


#92
1,2-Dibromo-3-Chloropropane
Concen: 168.342 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 75 Resp: 115101

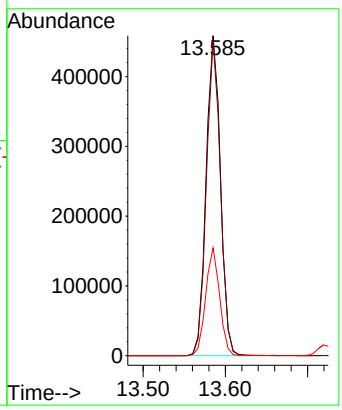
Ion	Ratio	Lower	Upper
75	100		
155	82.7	41.3	123.7
157	107.8	51.5	154.5



#93
1,2,4-Trichlorobenzene
Concen: 155.453 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:180 Resp: 55565

Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.1	144.4
145	32.8	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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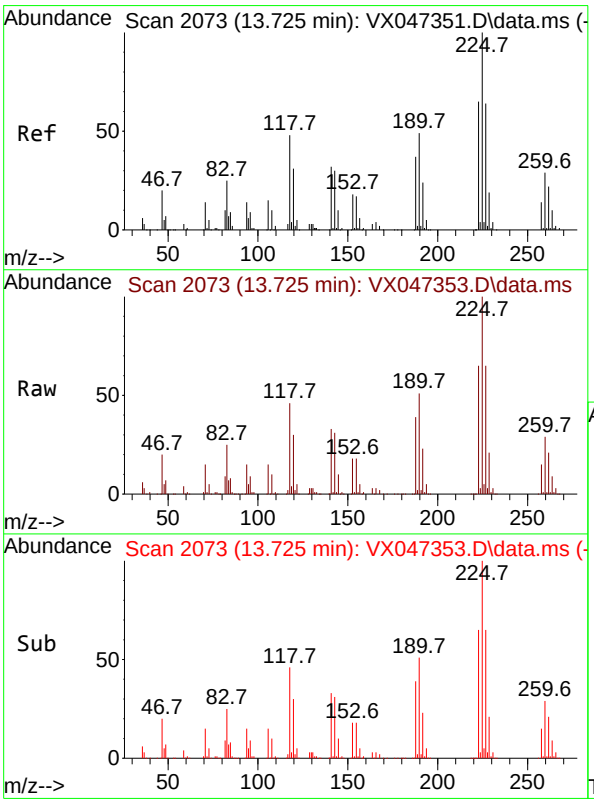
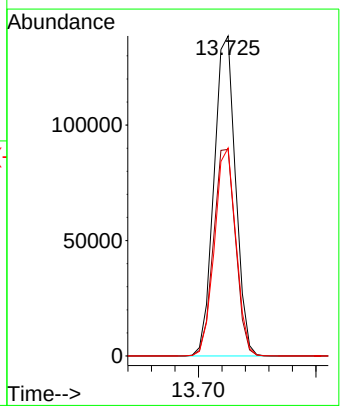
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

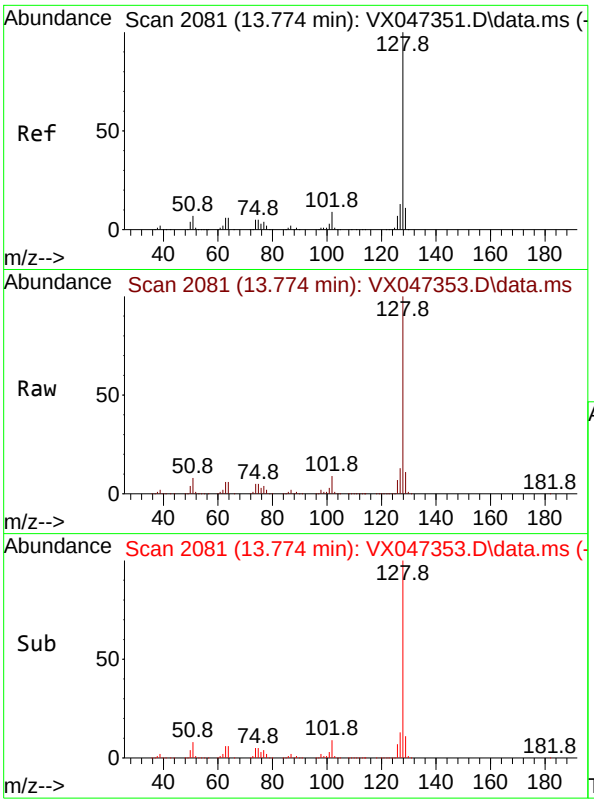


#94
Hexachlorobutadiene
Concen: 139.013 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:225 Resp: 176870

Ion	Ratio	Lower	Upper
225	100		
223	66.0	32.2	96.6
227	64.6	31.6	95.0

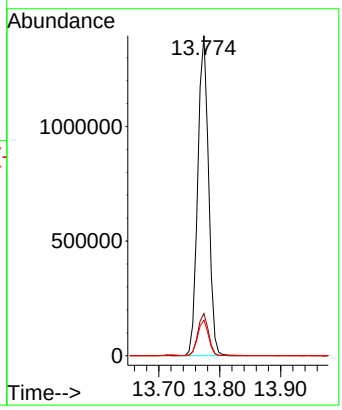




#95
Naphthalene
Concen: 167.959 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:128 Resp: 171568

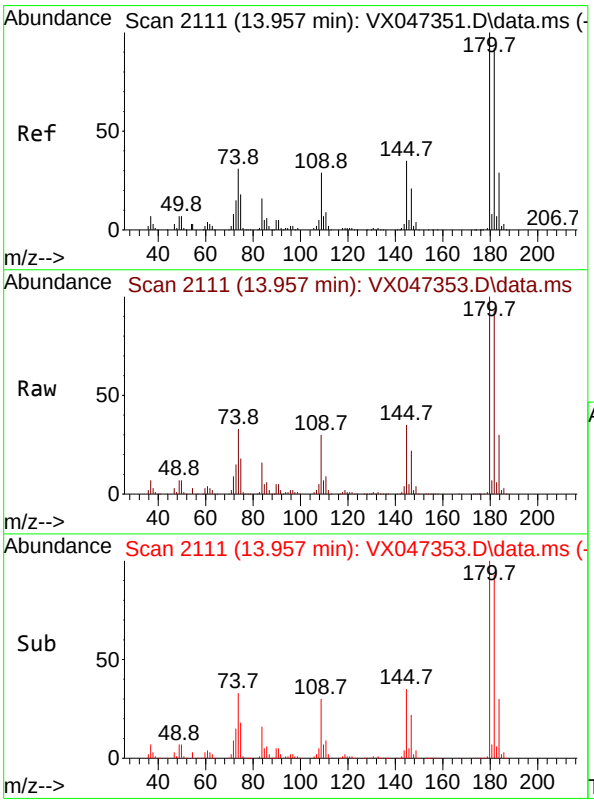
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.1	15.1
129	11.0	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

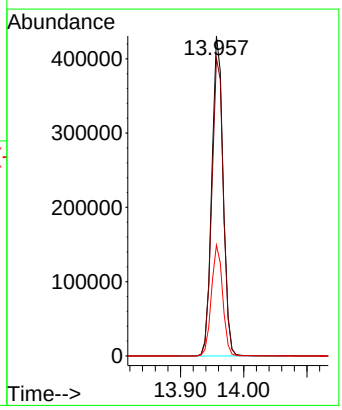
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 158.872 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:180 Resp: 535287

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.0	144.2
145	34.4	17.4	52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047356.D
Acq On : 15 Aug 2025 12:30
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:56:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.562	168	286149	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.769	114	494689	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	456440	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	228745	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	1.184	85	3127	0.857	ug/l		94
3) Chloromethane	1.313	50	3143	0.958	ug/l		99
4) Vinyl Chloride	1.392	62	3606	0.876	ug/l	#	68
6) Chloroethane	1.709	64	2950	1.171	ug/l		91
7) Trichlorofluoromethane	1.904	101	5369	0.881	ug/l		86
8) Diethyl Ether	2.148	74	1947	0.908	ug/l		77
9) 1,1,2-Trichlorotrifluo...	2.349	101	2830	0.801	ug/l	#	90
12) 1,1-Dichloroethene	2.337	96	3176	0.882	ug/l	#	84
14) Allyl chloride	2.684	41	5441m	0.869	ug/l		
15) Acrylonitrile	3.087	53	7106	4.221	ug/l		89
16) Acetone	2.392	43	7123	4.732	ug/l		91
17) Carbon Disulfide	2.532	76	11842	1.089	ug/l	#	93
18) Methyl Acetate	2.721	43	3556	0.912	ug/l	#	84
19) Methyl tert-butyl Ether	3.129	73	8892	0.811	ug/l		95
20) Methylene Chloride	2.812	84	3953	0.992	ug/l		88
21) trans-1,2-Dichloroethene	3.111	96	3552	0.929	ug/l	#	87
22) Diisopropyl ether	3.782	45	9930	0.803	ug/l		96
23) Vinyl Acetate	3.751	43	40393	3.984	ug/l	#	90
24) 1,1-Dichloroethane	3.629	63	6019	0.861	ug/l	#	85
25) 2-Butanone	4.605	43	8214	4.166	ug/l	#	87
26) 2,2-Dichloropropane	4.489	77	4442	0.842	ug/l		80
27) cis-1,2-Dichloroethene	4.513	96	3960	0.889	ug/l		88
28) Bromochloromethane	4.934	49	2750	0.945	ug/l	#	89
29) Tetrahydrofuran	5.044	42	6273m	4.923	ug/l		
30) Chloroform	5.117	83	6246	0.875	ug/l		86
32) 1,1,1-Trichloroethane	5.415	97	4939	0.804	ug/l	#	49
36) 1,1-Dichloropropene	5.708	75	4692	0.926	ug/l		94
37) Ethyl Acetate	4.757	43	4864m	0.924	ug/l		
38) Carbon Tetrachloride	5.696	117	5100	0.921	ug/l		92
39) Methylcyclohexane	7.391	83	5884	0.931	ug/l		88
40) Benzene	6.056	78	12977	0.855	ug/l		92
41) Methacrylonitrile	4.958	41	1736m	0.782	ug/l		
42) 1,2-Dichloroethane	6.123	62	4784	0.890	ug/l		88
43) Isopropyl Acetate	6.366	43	6382	0.844	ug/l	#	81
44) Trichloroethene	7.141	130	3329	0.857	ug/l		87
45) 1,2-Dichloropropane	7.446	63	3532	0.929	ug/l	#	88

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047356.D
Acq On : 15 Aug 2025 12:30
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:56:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.592	93	2453	0.889	ug/l		94
47) Bromodichloromethane	7.830	83	5078	0.888	ug/l	#	98
48) Methyl methacrylate	7.720	41	3480m	0.887	ug/l		
49) 1,4-Dioxane	7.708	88	559m	15.003	ug/l		
51) 4-Methyl-2-Pentanone	8.586	43	17109	3.933	ug/l		96
52) Toluene	8.726	92	7930	0.846	ug/l		99
53) t-1,3-Dichloropropene	8.988	75	3671	0.735	ug/l		91
54) cis-1,3-Dichloropropene	8.378	75	4466	0.790	ug/l		94
55) 1,1,2-Trichloroethane	9.159	97	3095	0.870	ug/l		97
56) Ethyl methacrylate	9.128	69	4003	0.763	ug/l		94
57) 1,3-Dichloropropane	9.311	76	5471	0.902	ug/l		94
58) 2-Chloroethyl Vinyl ether	8.256	63	5074	10.313	ug/l		95
59) 2-Hexanone	9.439	43	11811	3.926	ug/l		92
60) Dibromochloromethane	9.524	129	3776	0.893	ug/l		87
61) 1,2-Dibromoethane	9.616	107	3325	0.906	ug/l		94
64) Tetrachloroethene	9.274	164	2888	0.875	ug/l		94
65) Chlorobenzene	10.079	112	9799	0.903	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.165	131	3146	0.858	ug/l	#	65
67) Ethyl Benzene	10.195	91	15680	0.840	ug/l		90
68) m/p-Xylenes	10.305	106	11714	1.683	ug/l		98
69) o-Xylene	10.640	106	5943	0.887	ug/l		93
70) Styrene	10.664	104	8294	0.733	ug/l		91
71) Bromoform	10.805	173	2201	0.799	ug/l	#	94
73) Isopropylbenzene	10.963	105	14688	0.821	ug/l		94
74) N-amyl acetate	10.853	43	4792	0.705	ug/l	#	94
75) 1,1,2,2-Tetrachloroethane	11.213	83	4778	0.909	ug/l		97
76) 1,2,3-Trichloropropane	11.244	75	3744m	0.892	ug/l		
77) Bromobenzene	11.201	156	3648	0.835	ug/l		92
78) n-propylbenzene	11.305	91	17866	0.836	ug/l		100
79) 2-Chlorotoluene	11.366	91	11644	0.901	ug/l		93
80) 1,3,5-Trimethylbenzene	11.451	105	12427	0.844	ug/l		99
82) 4-Chlorotoluene	11.457	91	13922	0.914	ug/l		97
83) tert-Butylbenzene	11.713	119	12162	0.828	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	11509	0.781	ug/l		99
85) sec-Butylbenzene	11.890	105	14973	0.822	ug/l		97
86) p-Isopropyltoluene	12.012	119	13546	0.879	ug/l		95
87) 1,3-Dichlorobenzene	11.975	146	7821	0.937	ug/l		97
88) 1,4-Dichlorobenzene	12.042	146	8856m	1.031	ug/l		
89) n-Butylbenzene	12.335	91	12883	0.899	ug/l		97
90) Hexachloroethane	12.536	117	2421	0.895	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	7461	0.941	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	876	0.862	ug/l		96
93) 1,2,4-Trichlorobenzene	13.591	180	5232	0.985	ug/l		99
94) Hexachlorobutadiene	13.725	225	2573	1.360	ug/l		95
95) Naphthalene	13.780	128	12231	0.805	ug/l		97
96) 1,2,3-Trichlorobenzene	13.957	180	4918	0.982	ug/l		99

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

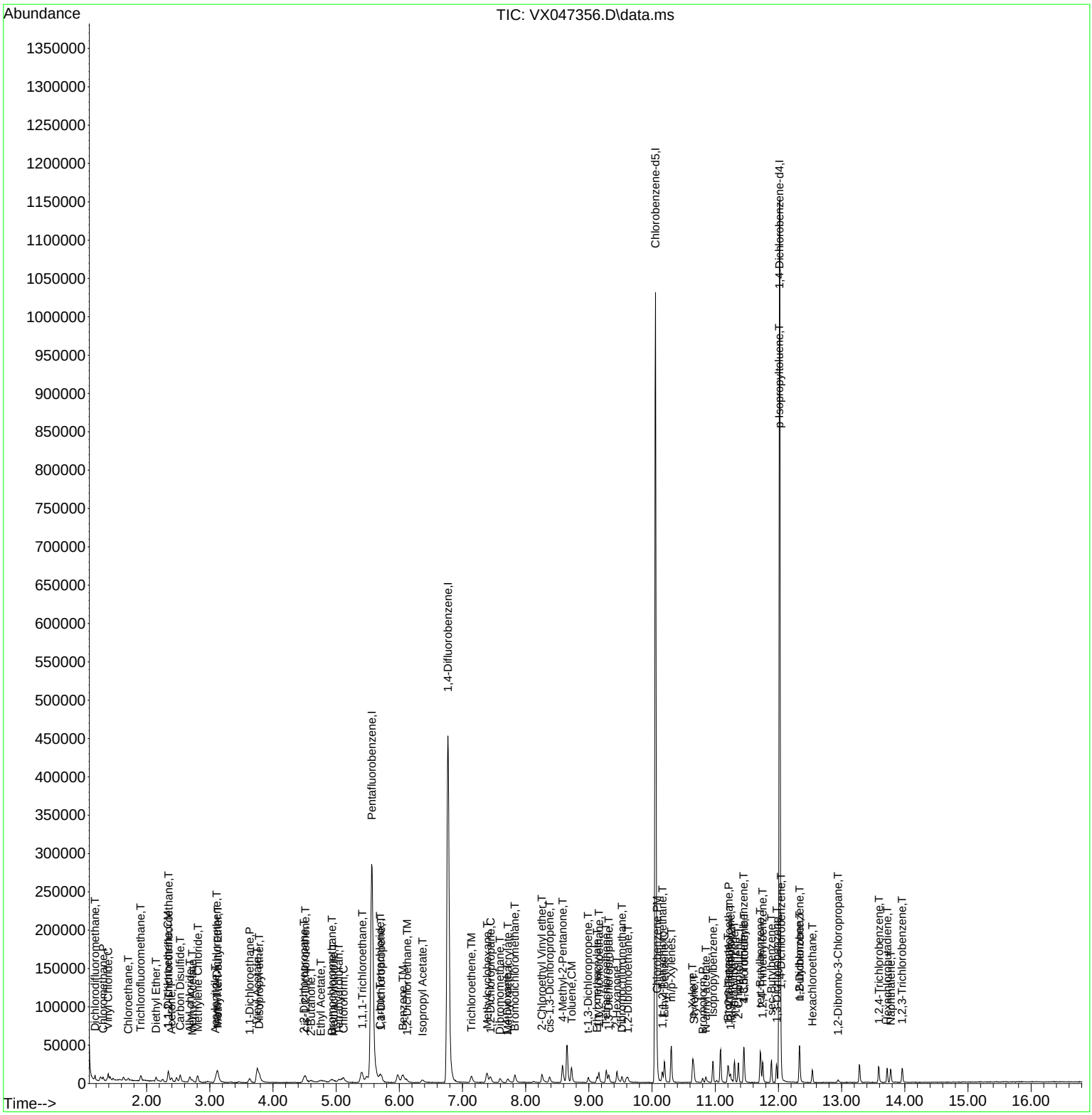
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047356.D
Acq On : 15 Aug 2025 12:30
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

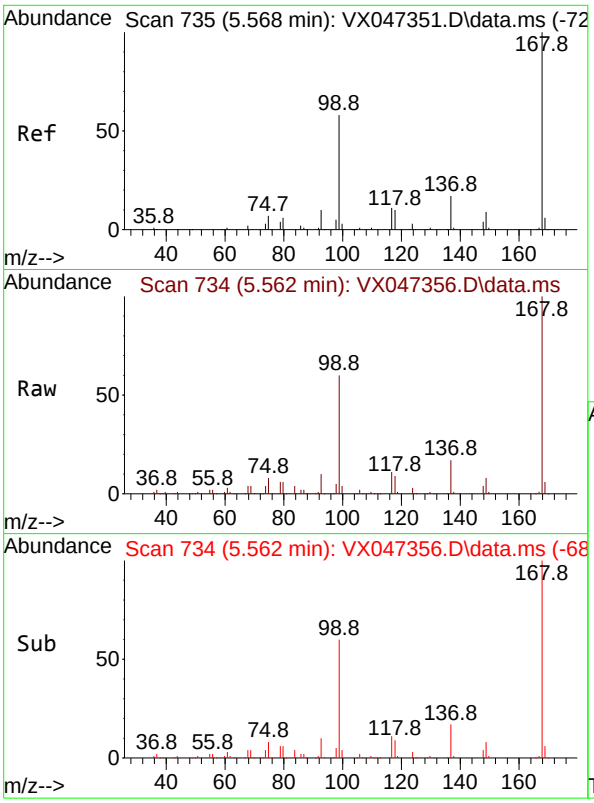
Quant Time: Aug 18 02:56:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

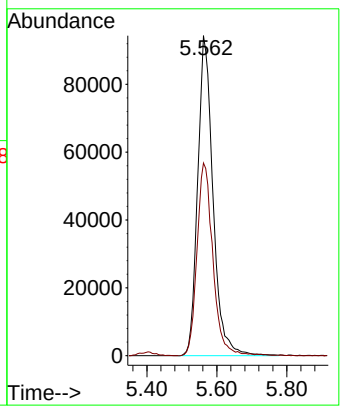




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:168 Resp: 28614

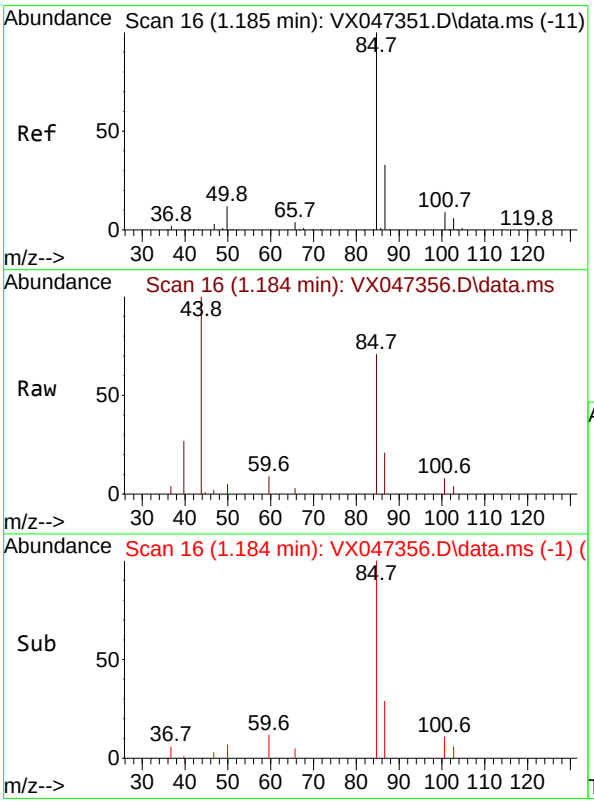
Ion	Ratio	Lower	Upper
168	100		
99	60.2	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

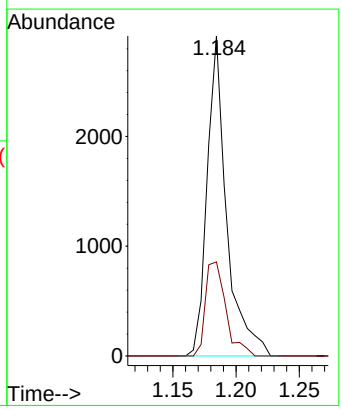
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

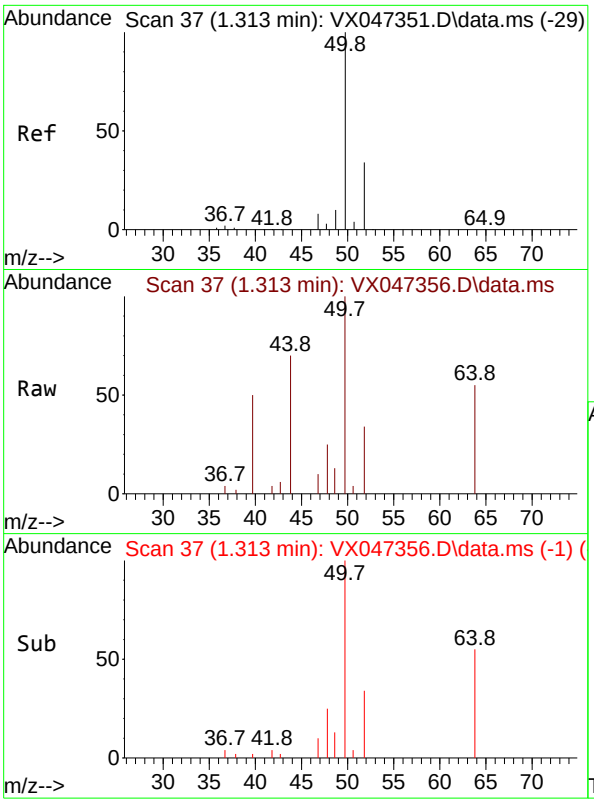


#2
Dichlorodifluoromethane
Concen: 0.857 ug/l
RT: 1.184 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 85 Resp: 3127

Ion	Ratio	Lower	Upper
85	100		
87	29.4	16.4	49.1

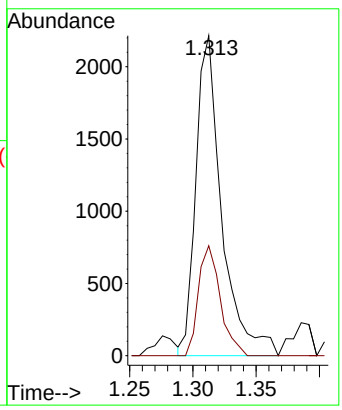




#3
Chloromethane
Concen: 0.958 ug/l
RT: 1.313 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 50 Resp: 314

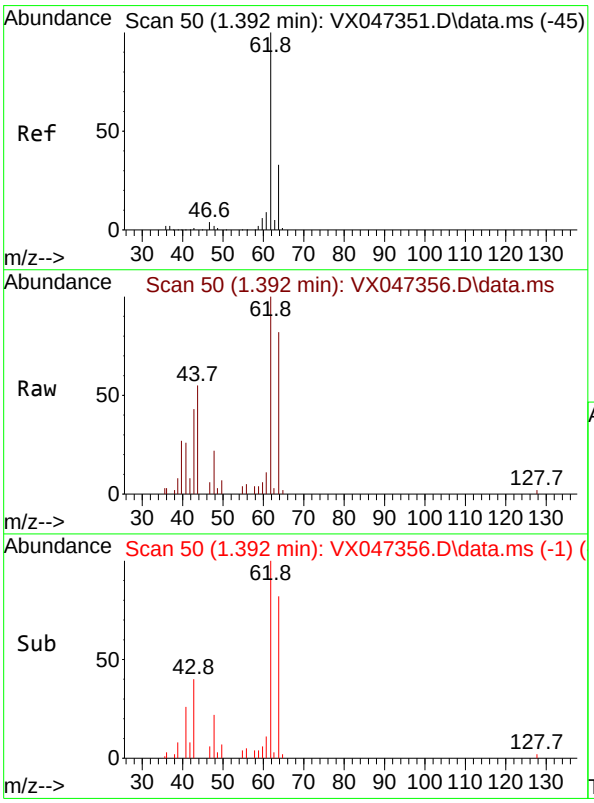
Ion	Ratio	Lower	Upper
50	100		
52	32.9	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

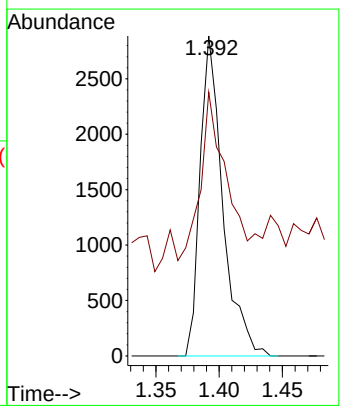
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

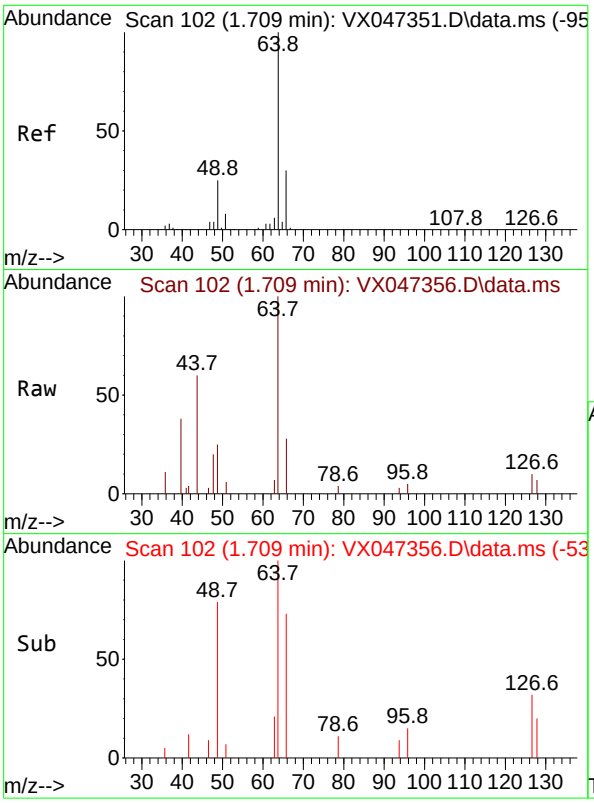


#4
Vinyl Chloride
Concen: 0.876 ug/l
RT: 1.392 min Scan# 50
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 62 Resp: 3606

Ion	Ratio	Lower	Upper
62	100		
64	51.3	26.5	39.7#

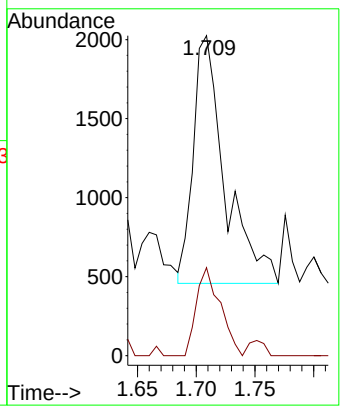




#6
Chloroethane
Concen: 1.171 ug/l
RT: 1.709 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 64 Resp: 295(

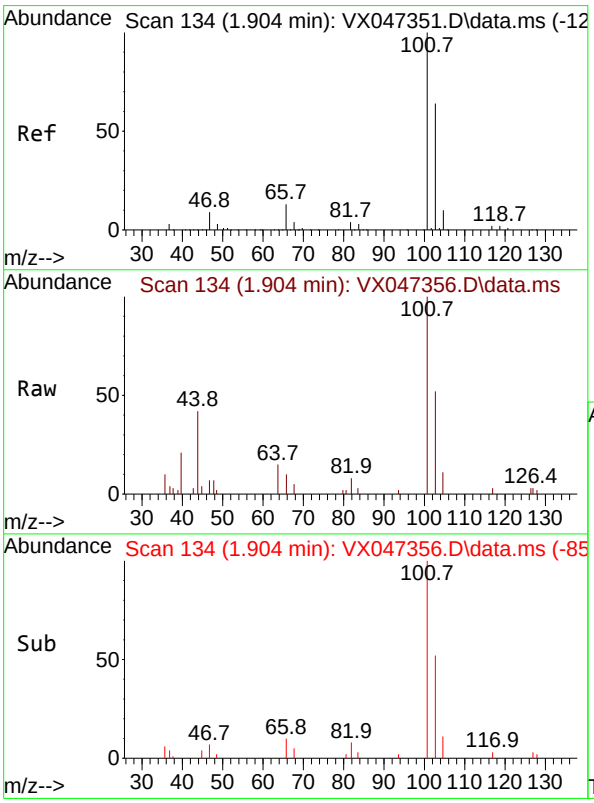
Ion	Ratio	Lower	Upper
64	100		
66	35.5	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

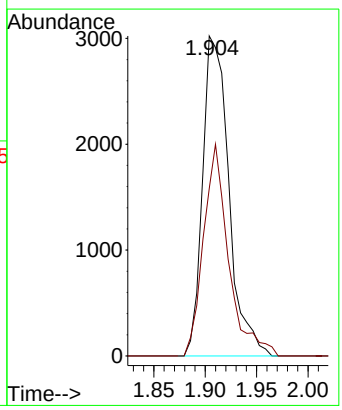
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

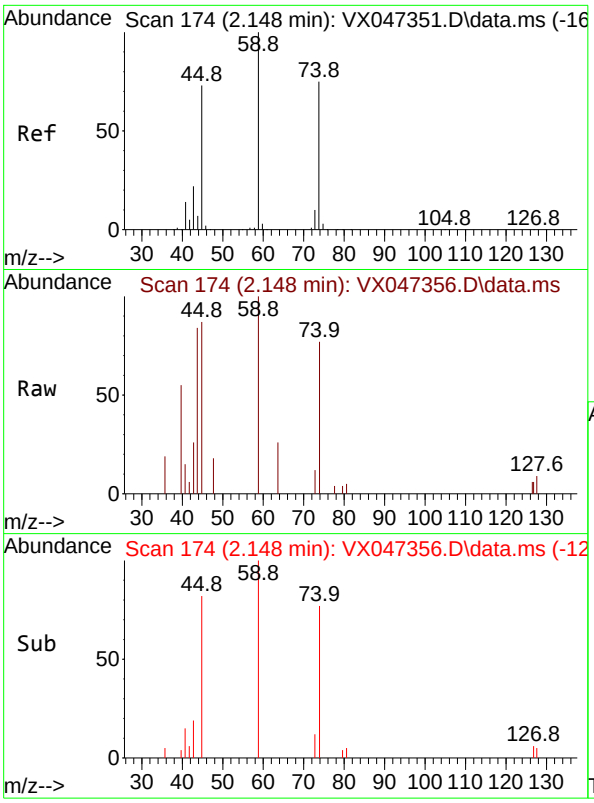


#7
Trichlorofluoromethane
Concen: 0.881 ug/l
RT: 1.904 min Scan# 134
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:101 Resp: 5369

Ion	Ratio	Lower	Upper
101	100		
103	52.3	50.9	76.3

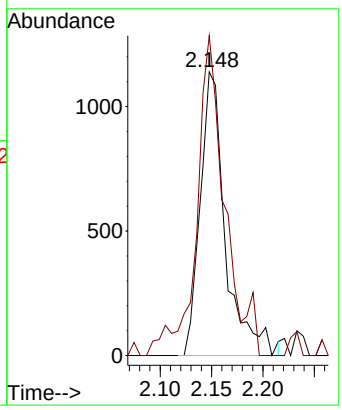




#8
Diethyl Ether
Concen: 0.908 ug/l
RT: 2.148 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 74 Resp: 194

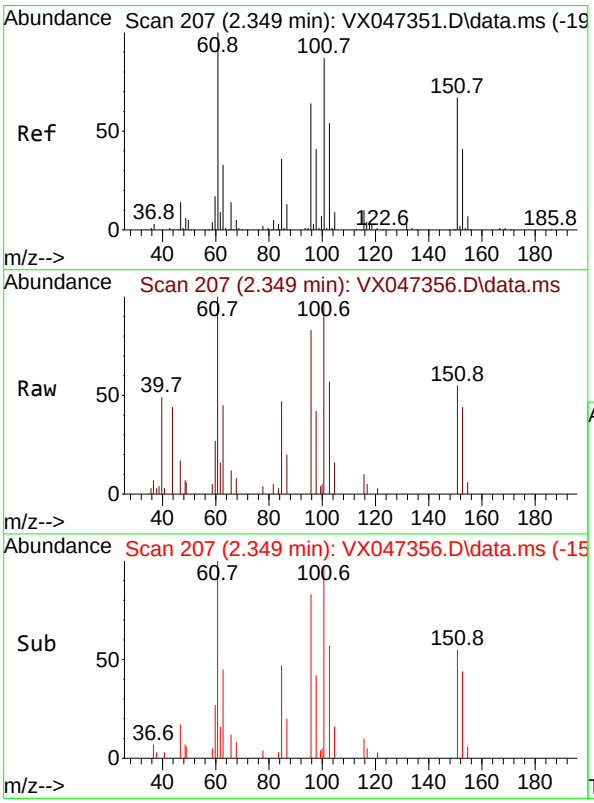
Ion	Ratio	Lower	Upper
74	100		
45	125.6	51.3	154.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

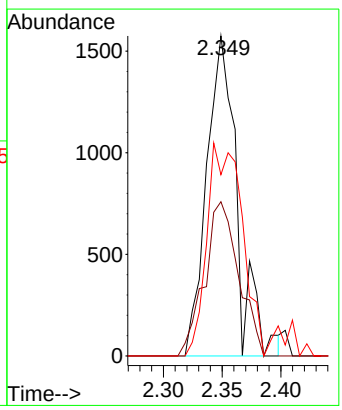
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

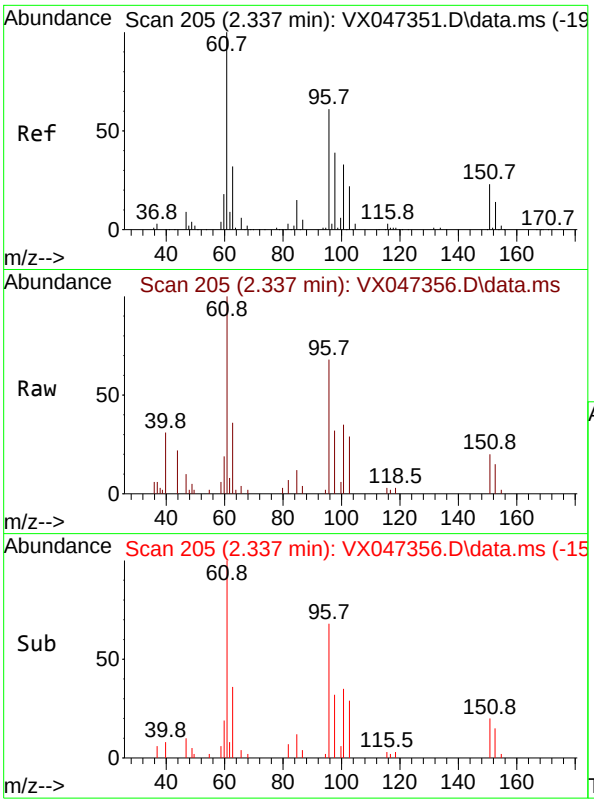


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.801 ug/l
RT: 2.349 min Scan# 207
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:101 Resp: 2830

Ion	Ratio	Lower	Upper
101	100		
85	54.2	34.3	51.5#
151	78.2	59.2	88.8

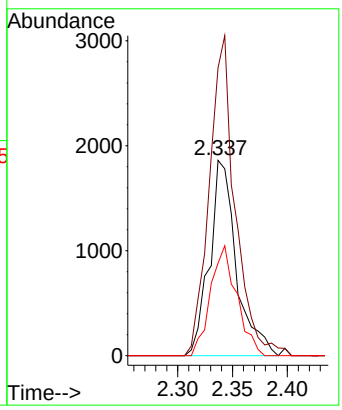




#12
1,1-Dichloroethene
Concen: 0.882 ug/l
RT: 2.337 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 96 Resp: 317(

Ion	Ratio	Lower	Upper
96	100		
61	147.3	132.2	198.2
98	47.3	51.2	76.8#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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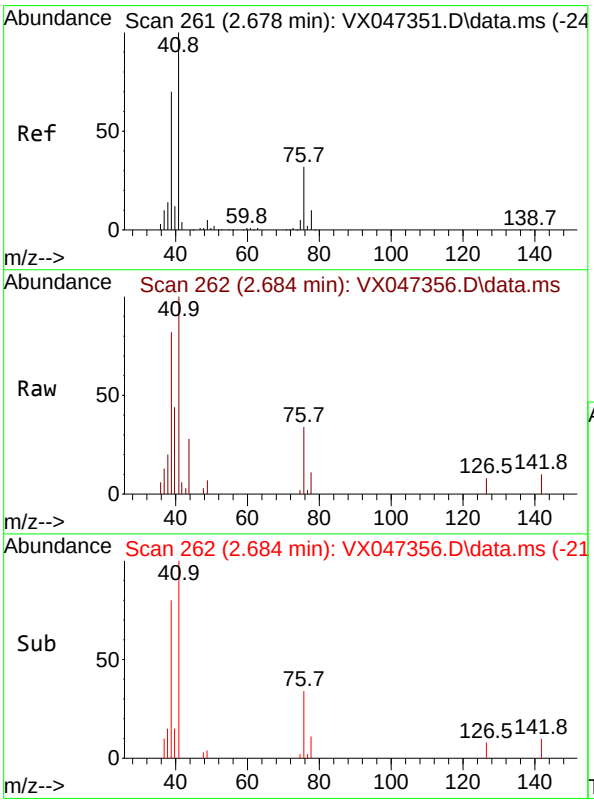
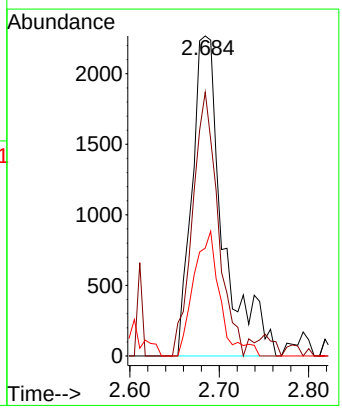
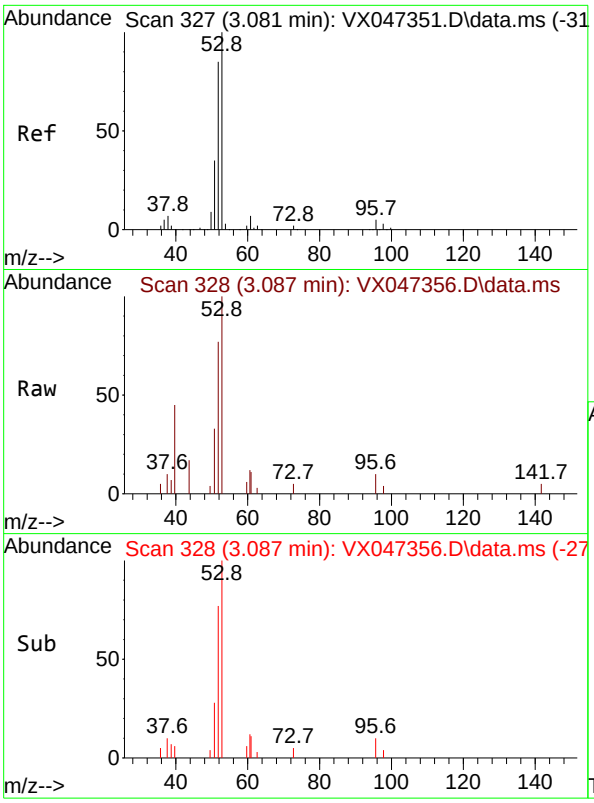


#14
Allyl chloride
Concen: 0.869 ug/l m
RT: 2.684 min Scan# 262
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 41 Resp: 5441

Ion	Ratio	Lower	Upper
41	100		
39	67.5	54.6	81.8
76	33.1	27.6	41.4

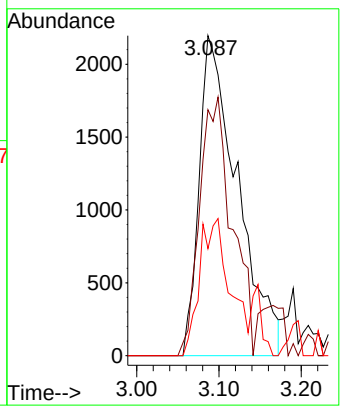




#15
Acrylonitrile
Concen: 4.221 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 53 Resp: 710

Ion	Ratio	Lower	Upper
53	100		
52	68.4	65.8	98.6
51	34.0	28.2	42.2



Instrument :
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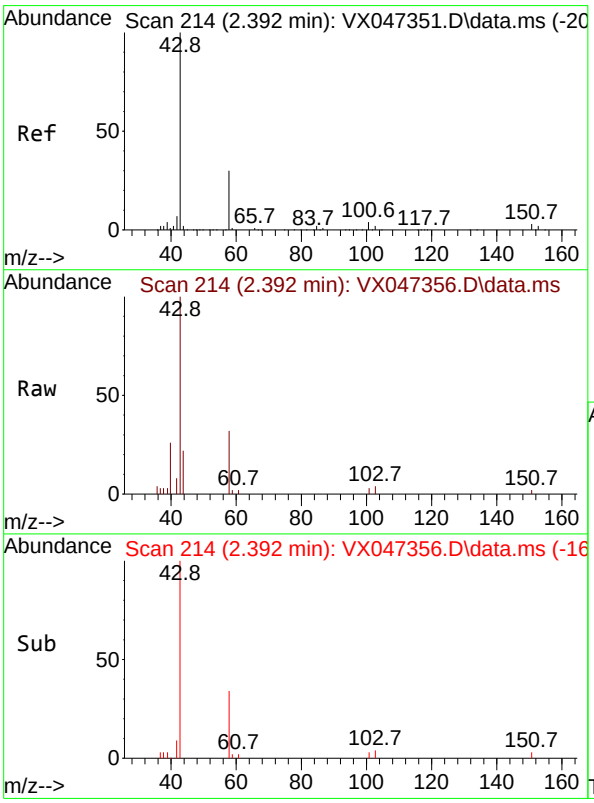
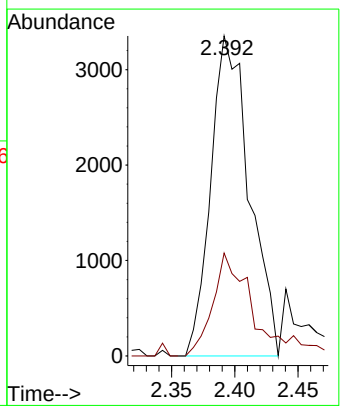
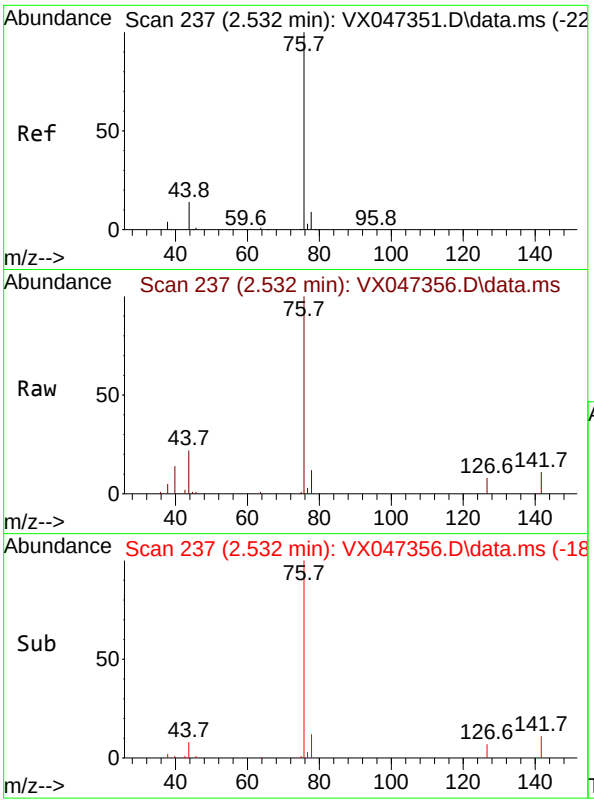


#16
Acetone
Concen: 4.732 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 43 Resp: 7123

Ion	Ratio	Lower	Upper
43	100		
58	26.3	24.8	37.2





#17
Carbon Disulfide
Concen: 1.089 ug/l
RT: 2.532 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 76 Resp: 1184

Ion	Ratio	Lower	Upper
76	100		
78	11.5	7.2	10.8#

Instrument :
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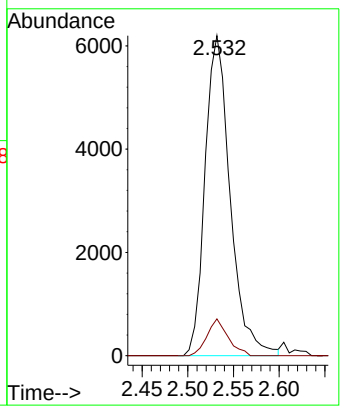
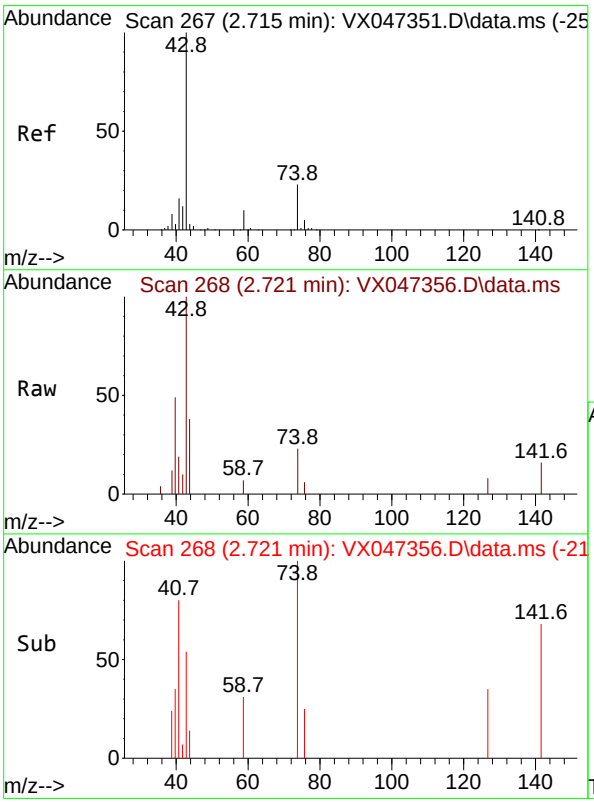
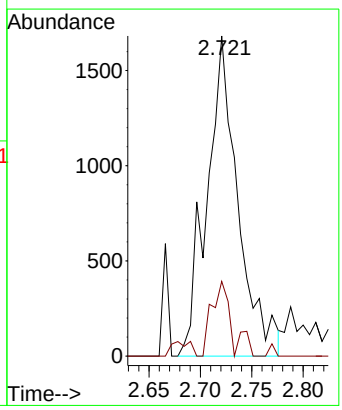


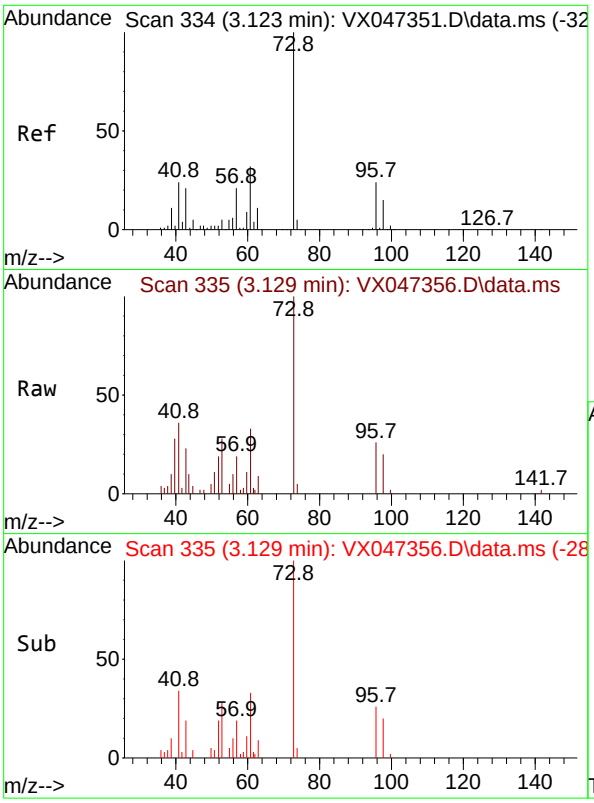


#18
Methyl Acetate
Concen: 0.912 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 43 Resp: 3556

Ion	Ratio	Lower	Upper
43	100		
74	15.0	18.4	27.6#

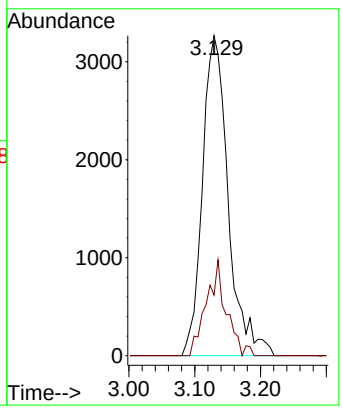




#19
Methyl tert-butyl Ether
Concen: 0.811 ug/l
RT: 3.129 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 73 Resp: 889

Ion	Ratio	Lower	Upper
73	100		
57	18.9	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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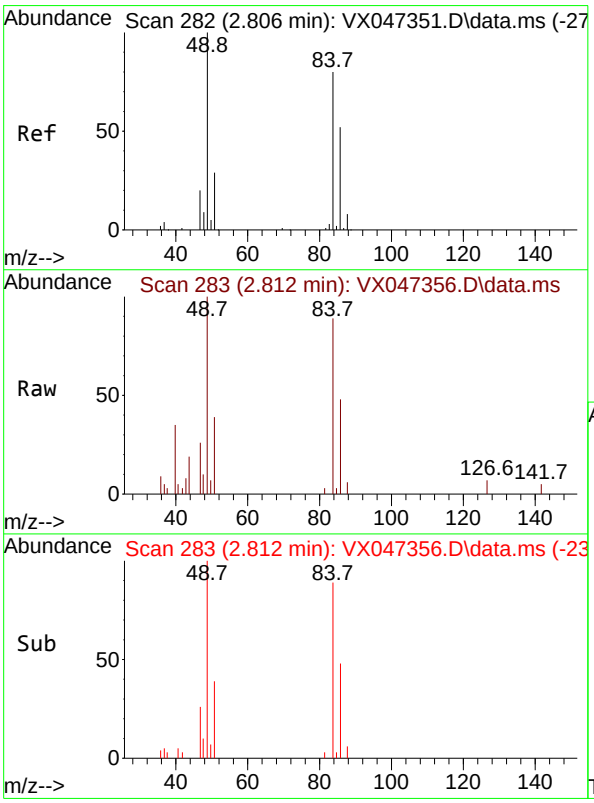
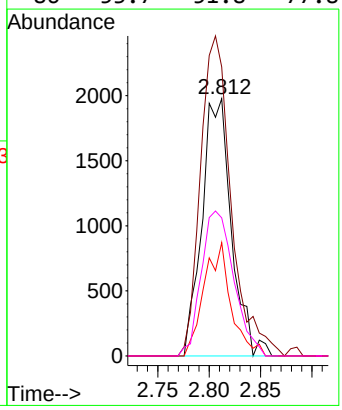
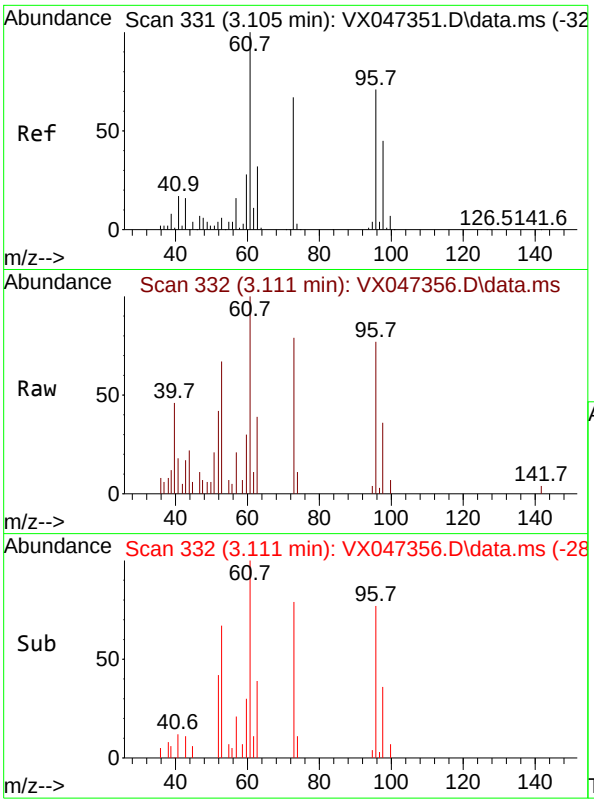


#20
Methylene Chloride
Concen: 0.992 ug/l
RT: 2.812 min Scan# 283
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 84 Resp: 3953

Ion	Ratio	Lower	Upper
84	100		
49	112.3	100.1	150.1
51	44.0	29.5	44.3
86	53.7	51.8	77.8

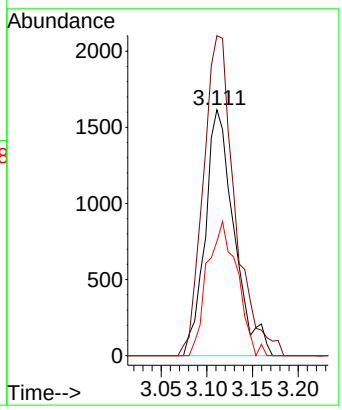




#21
trans-1,2-Dichloroethene
Concen: 0.929 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 96 Resp: 355

Ion	Ratio	Lower	Upper
96	100		
61	130.2	112.6	169.0
98	46.4	50.9	76.3#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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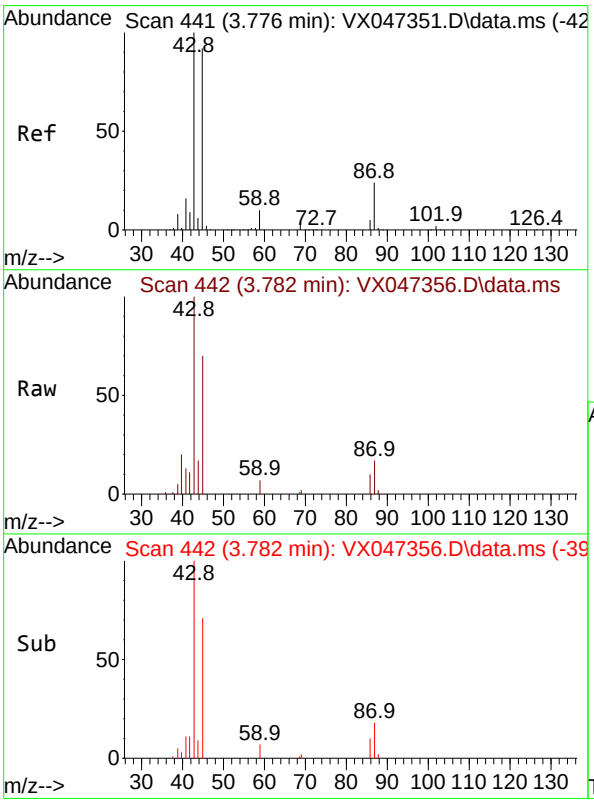
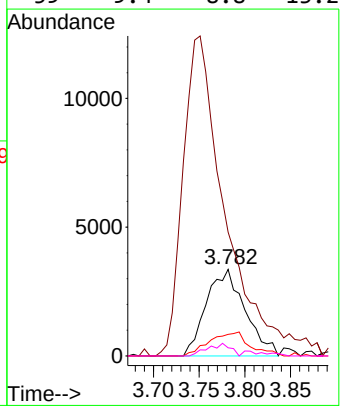
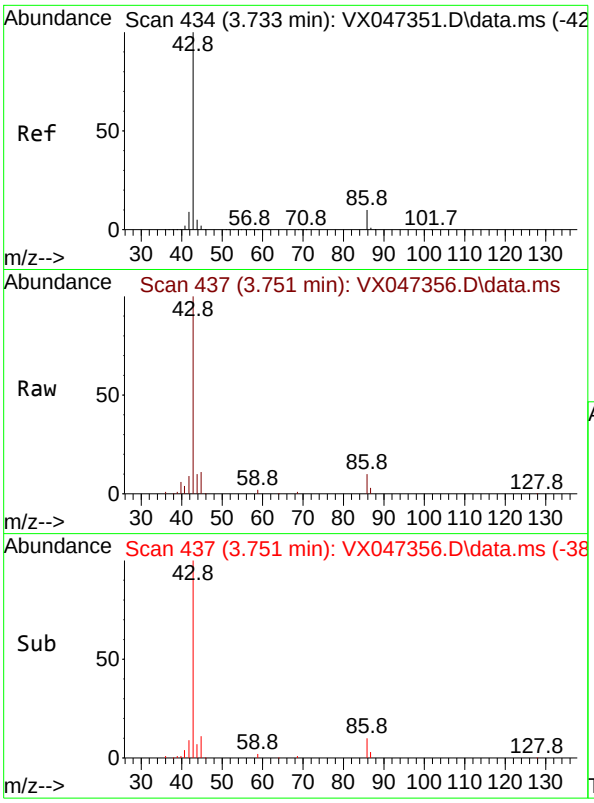


#22
Diisopropyl ether
Concen: 0.803 ug/l
RT: 3.782 min Scan# 442
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 45 Resp: 9930

Ion	Ratio	Lower	Upper
45	100		
43	113.1	86.8	130.2
87	24.9	20.4	30.6
59	9.4	8.8	13.2





#23
Vinyl Acetate
Concen: 3.984 ug/l
RT: 3.751 min Scan# 4
Delta R.T. 0.018 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 43 Resp: 4039

Ion	Ratio	Lower	Upper
43	100		
86	13.7	7.9	11.9#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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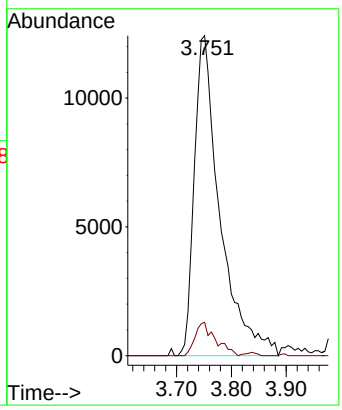
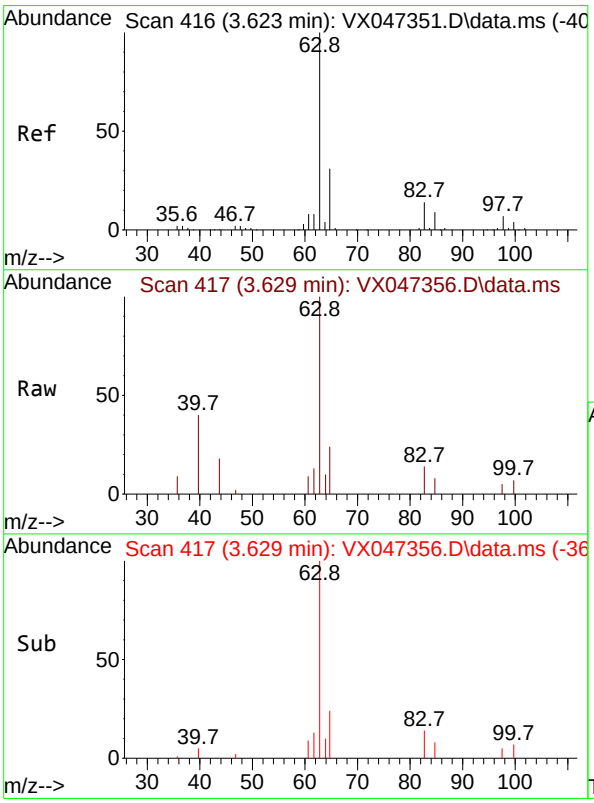
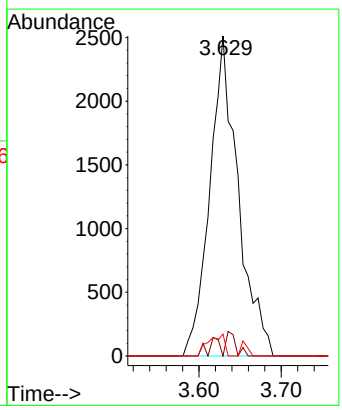


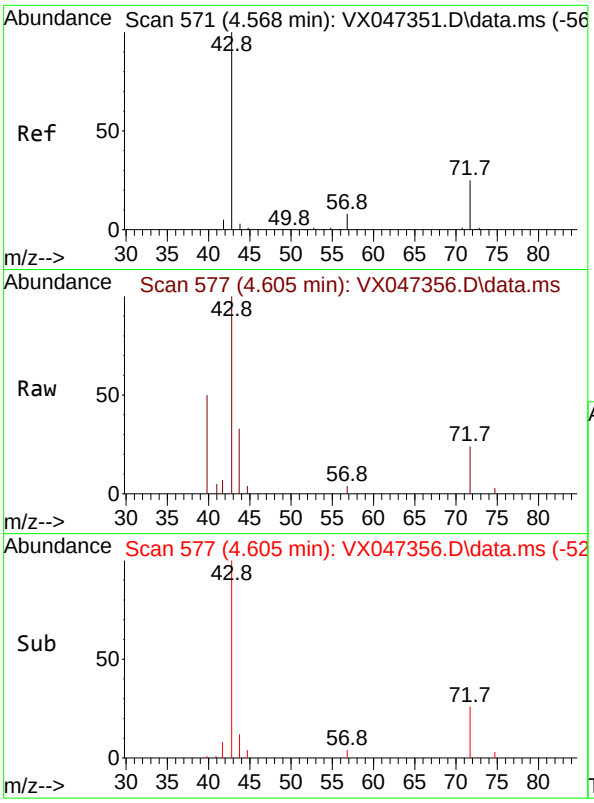


#24
1,1-Dichloroethane
Concen: 0.861 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 63 Resp: 6019

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.3	9.9#
100	6.8	2.1	6.3#





#25
2-Butanone
Concen: 4.166 ug/l
RT: 4.605 min Scan# 5
Delta R.T. 0.036 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 43 Resp: 821

Ion	Ratio	Lower	Upper
43	100		
72	18.3	19.8	29.8

Instrument :
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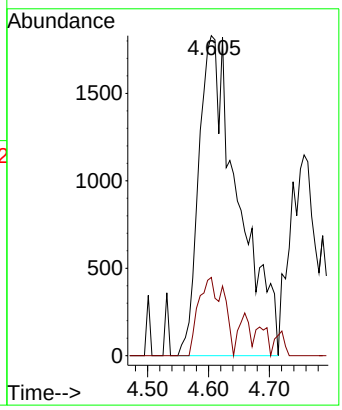
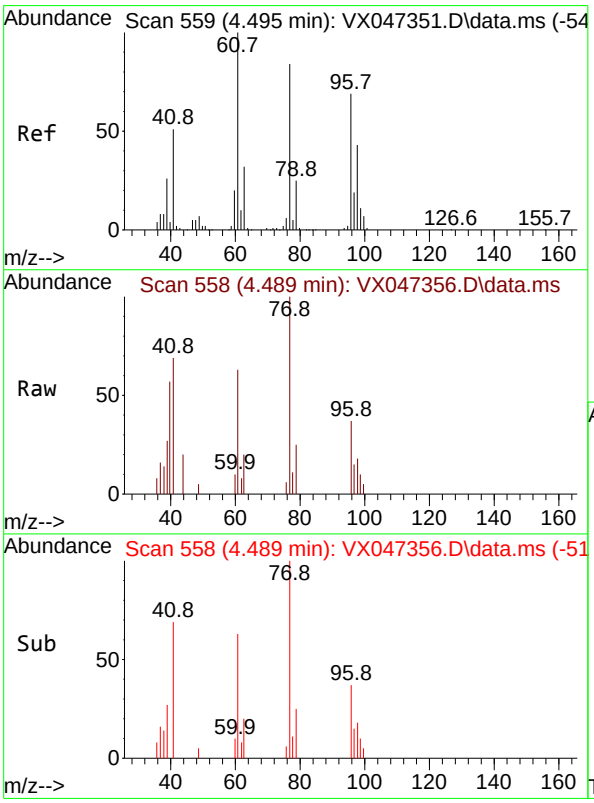
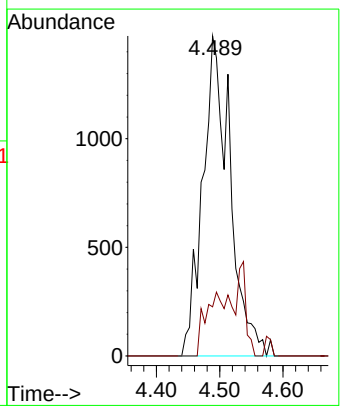


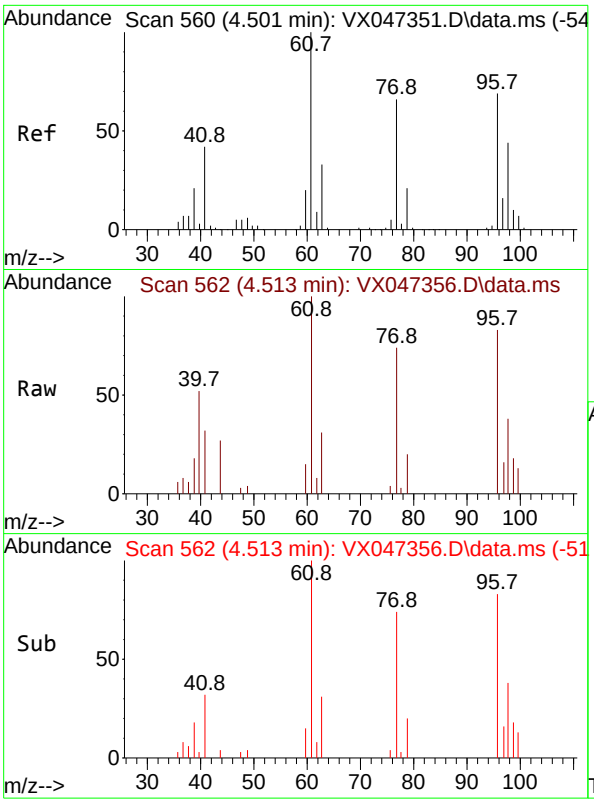


#26
2,2-Dichloropropane
Concen: 0.842 ug/l
RT: 4.489 min Scan# 558
Delta R.T. -0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 77 Resp: 4442

Ion	Ratio	Lower	Upper
77	100		
97	13.1	11.4	34.1

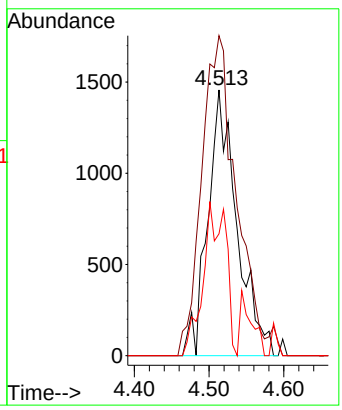




#27
cis-1,2-Dichloroethene
Concen: 0.889 ug/l
RT: 4.513 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 96 Resp: 396

Ion	Ratio	Lower	Upper
96	100		
61	140.7	0.0	296.6
98	44.5	0.0	130.4



Instrument :
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ClientSampleId :
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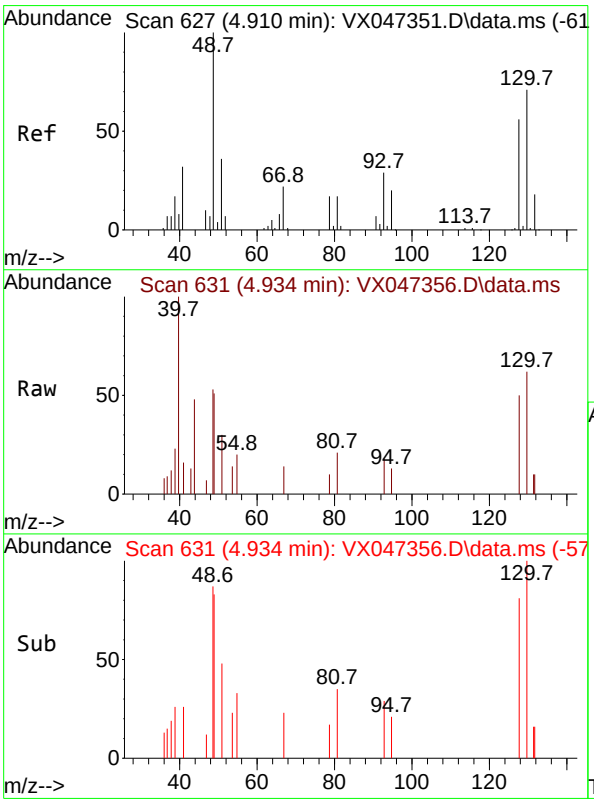
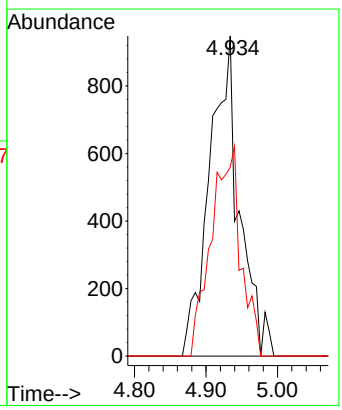
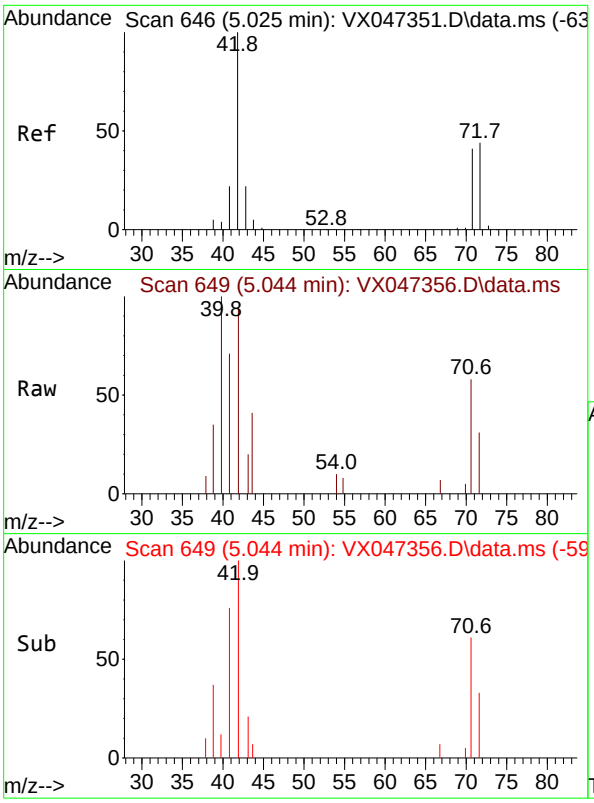


#28
Bromochloromethane
Concen: 0.945 ug/l
RT: 4.934 min Scan# 631
Delta R.T. 0.024 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 49 Resp: 2750

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	65.1	59.8	89.6

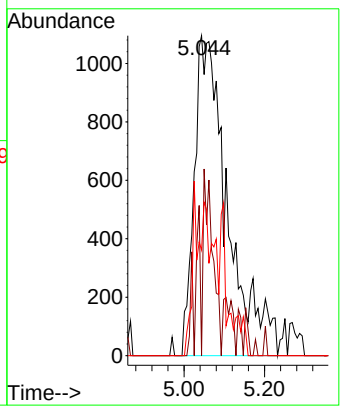




#29
Tetrahydrofuran
Concen: 4.923 ug/l m
RT: 5.044 min Scan# 64
Delta R.T. 0.018 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 42 Resp: 627

Ion	Ratio	Lower	Upper
42	100		
72	16.3	34.6	51.8#
71	13.8	32.6	49.0#



Instrument :
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ClientSampleId :
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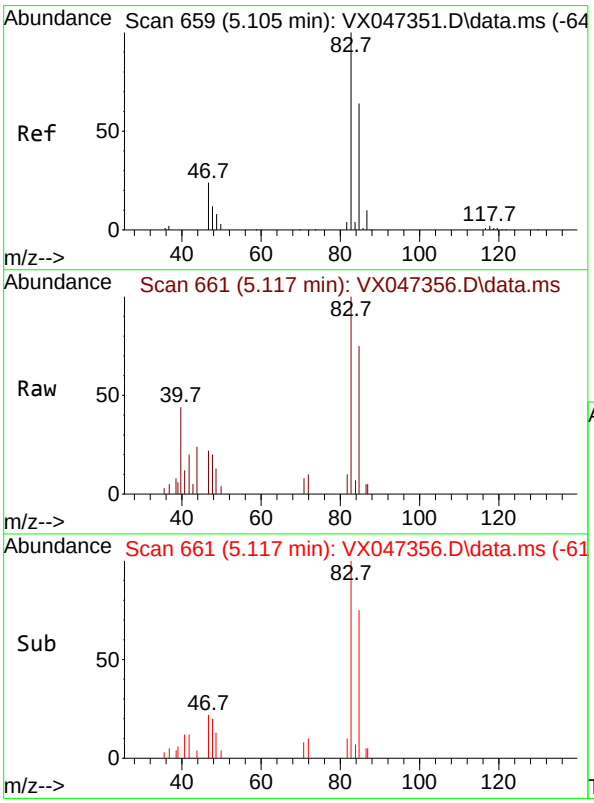
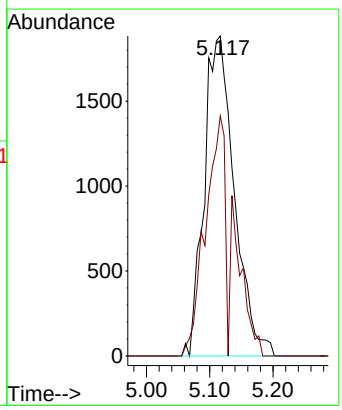
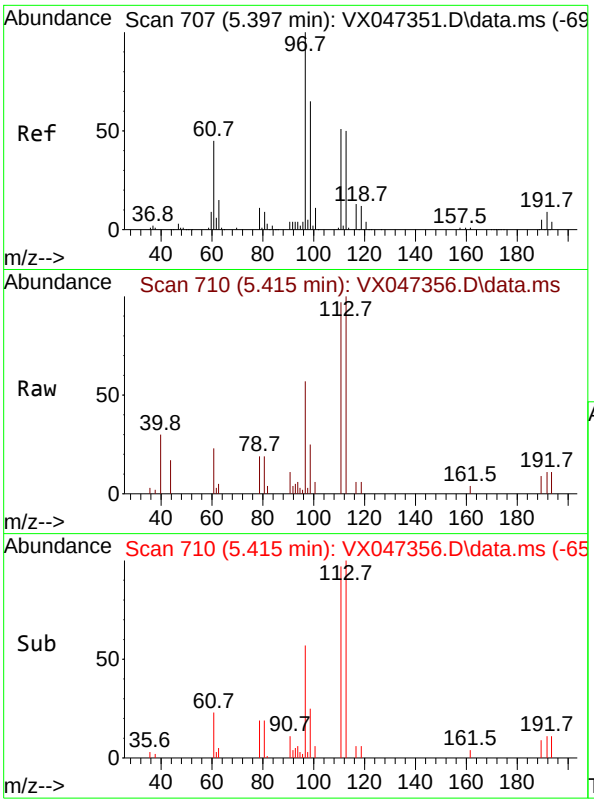


#30
Chloroform
Concen: 0.875 ug/l
RT: 5.117 min Scan# 661
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 83 Resp: 6246

Ion	Ratio	Lower	Upper
83	100		
85	75.0	51.2	76.8

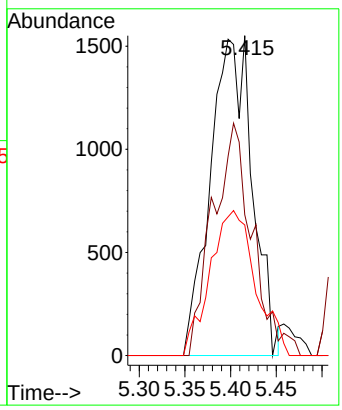




#32
1,1,1-Trichloroethane
Concen: 0.804 ug/l
RT: 5.415 min Scan# 7
Delta R.T. 0.018 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 97 Resp: 493

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.4	77.0
61	49.3	35.7	53.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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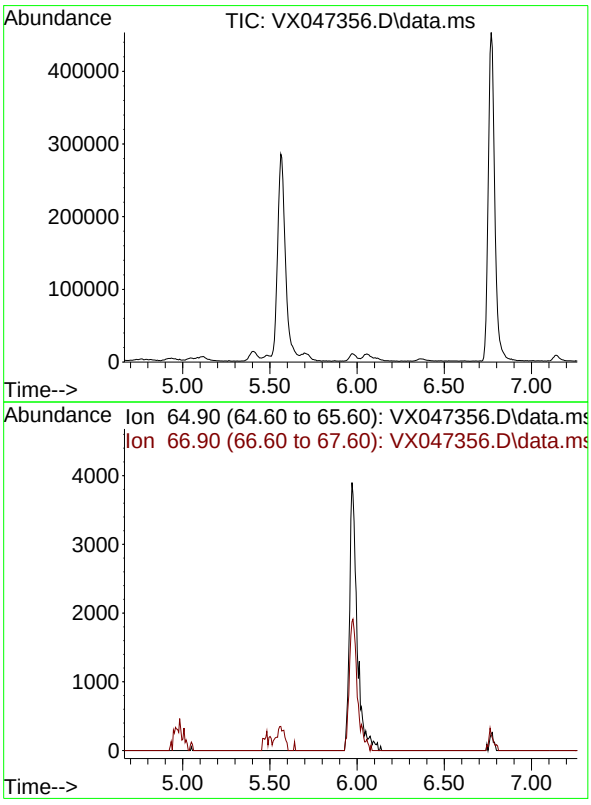
Supervised By :Mahesh Dadoda 08/19/2025

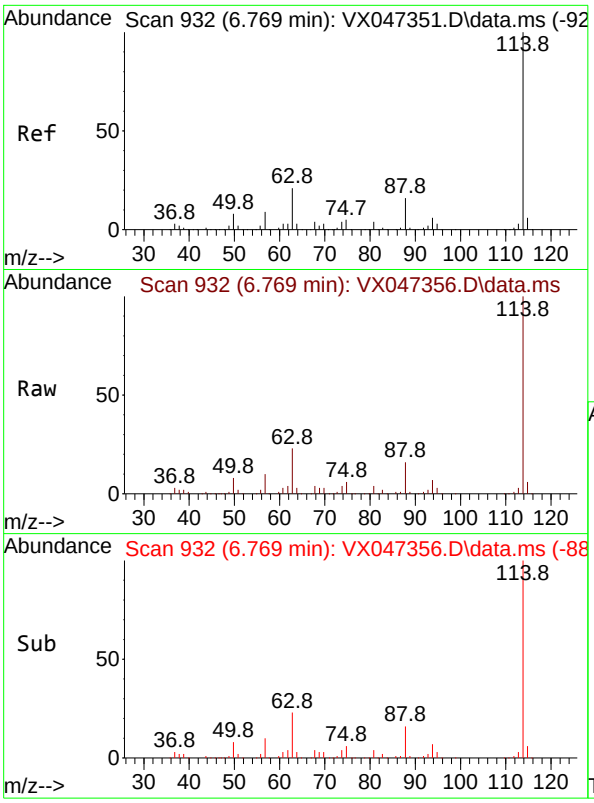


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.96 min

Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 65

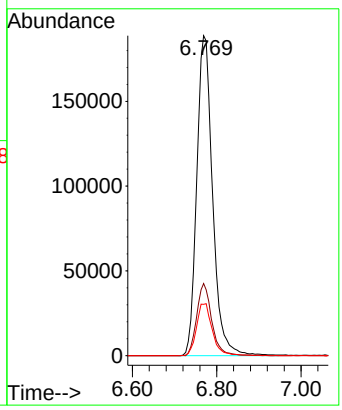
Sig	Exp Ratio
65	100
67	53.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:114 Resp: 49468

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	42.4
88	16.1	0.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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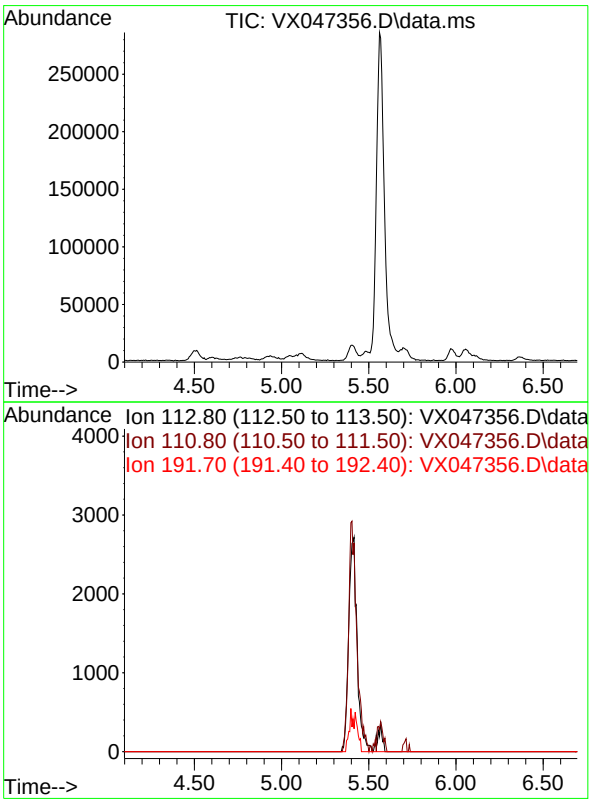
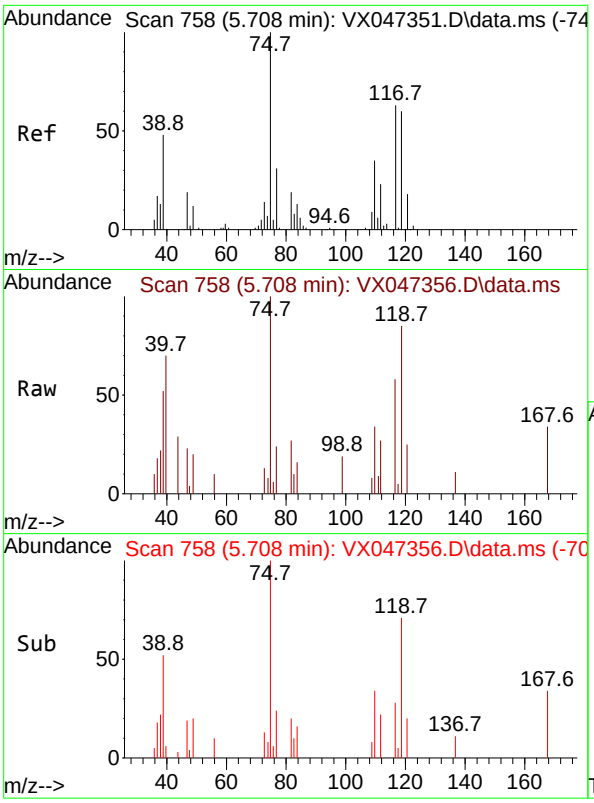


#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.40 min

Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 113

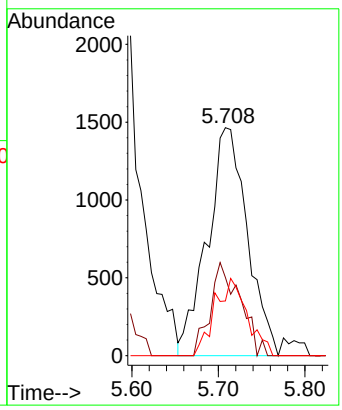
Sig	Exp Ratio
113	100
111	101.8
192	17.6



#36
1,1-Dichloropropene
Concen: 0.926 ug/l
RT: 5.708 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 75 Resp: 469

Ion	Ratio	Lower	Upper
75	100		
110	30.7	17.4	52.2
77	27.4	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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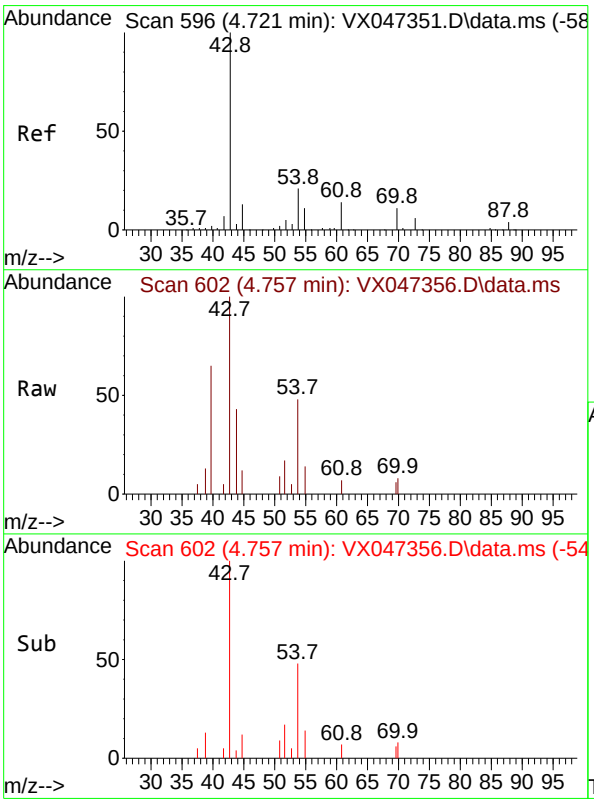
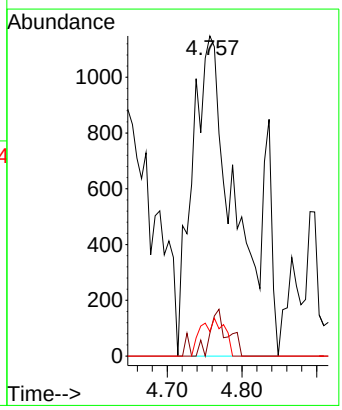
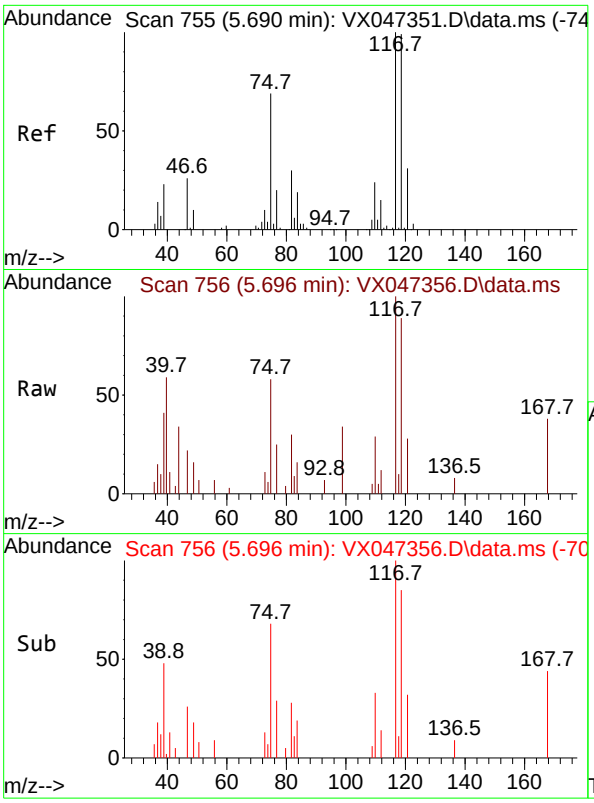


#37
Ethyl Acetate
Concen: 0.924 ug/l m
RT: 4.757 min Scan# 602
Delta R.T. 0.036 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 43 Resp: 4864

Ion	Ratio	Lower	Upper
43	100		
61	5.7	9.4	14.2#
70	2.9	7.0	10.6#

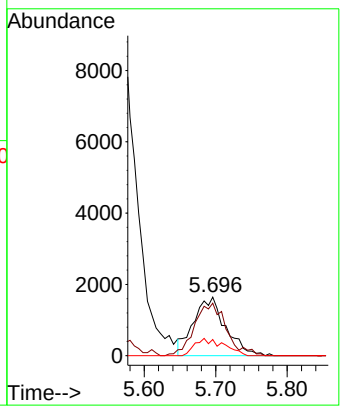




#38
Carbon Tetrachloride
Concen: 0.921 ug/l
RT: 5.696 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:117 Resp: 510

Ion	Ratio	Lower	Upper
117	100		
119	89.4	78.5	117.7
121	27.5	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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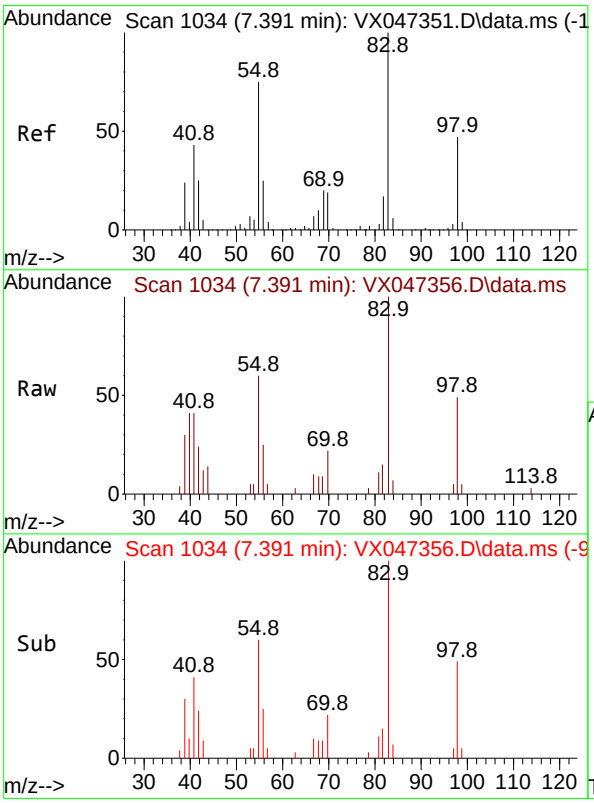
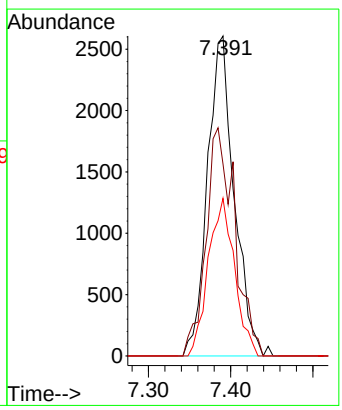
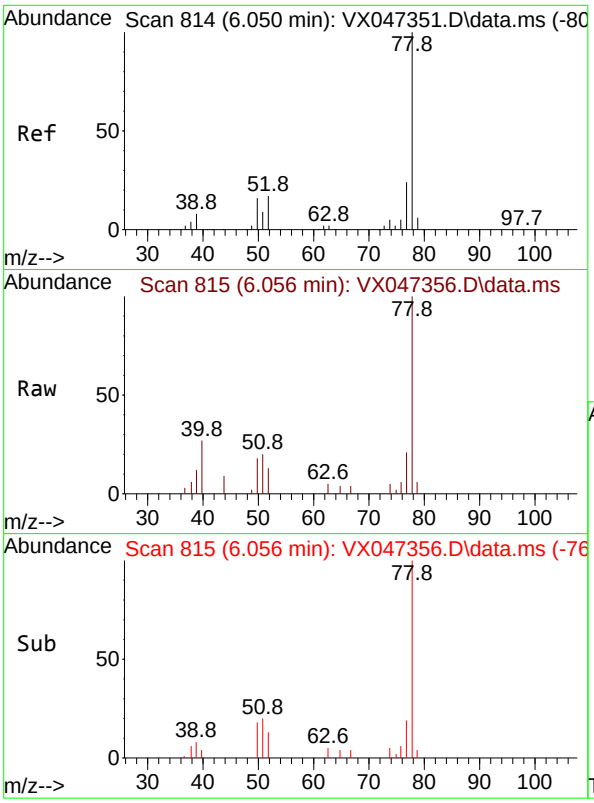


#39
Methylcyclohexane
Concen: 0.931 ug/l
RT: 7.391 min Scan# 1034
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 83 Resp: 5884

Ion	Ratio	Lower	Upper
83	100		
55	60.0	60.0	90.0
98	49.3	37.2	55.8

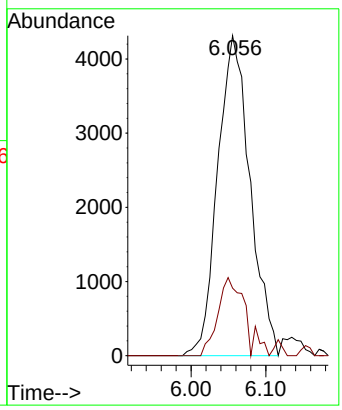




#40
Benzene
Concen: 0.855 ug/l
RT: 6.056 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 78 Resp: 1297

Ion	Ratio	Lower	Upper
78	100		
77	19.9	19.0	28.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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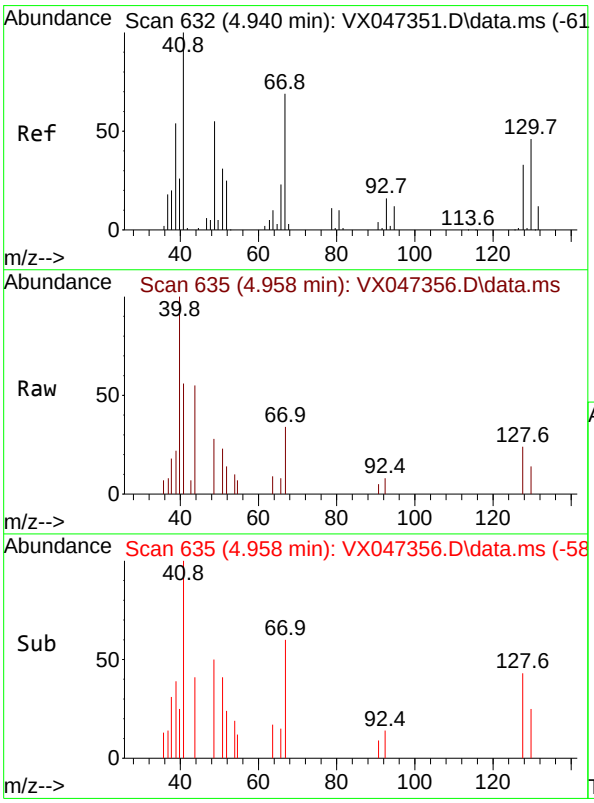
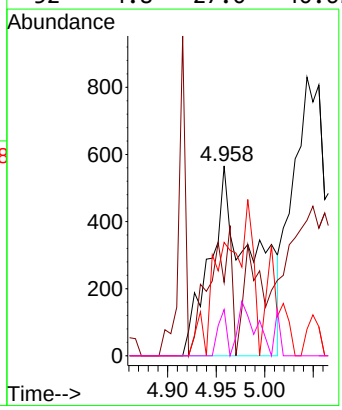
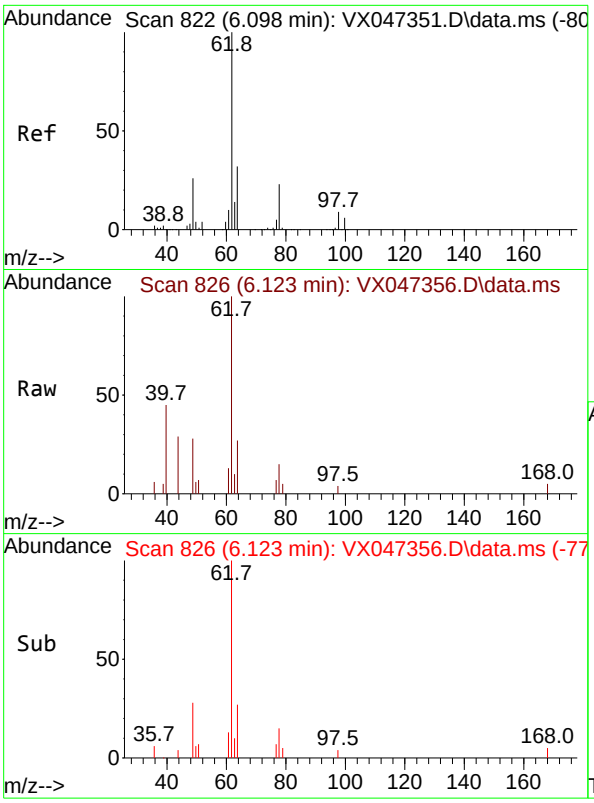


#41
Methacrylonitrile
Concen: 0.782 ug/l m
RT: 4.958 min Scan# 635
Delta R.T. 0.018 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 41 Resp: 1736

Ion	Ratio	Lower	Upper
41	100		
39	33.1	45.4	68.2#
67	35.9	64.0	96.0#
52	4.8	27.0	40.6#

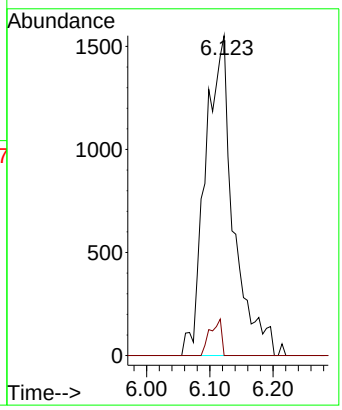




#42
1,2-Dichloroethane
Concen: 0.890 ug/l
RT: 6.123 min Scan# 8
Delta R.T. 0.024 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 62 Resp: 478

Ion	Ratio	Lower	Upper
62	100		
98	4.7	0.0	18.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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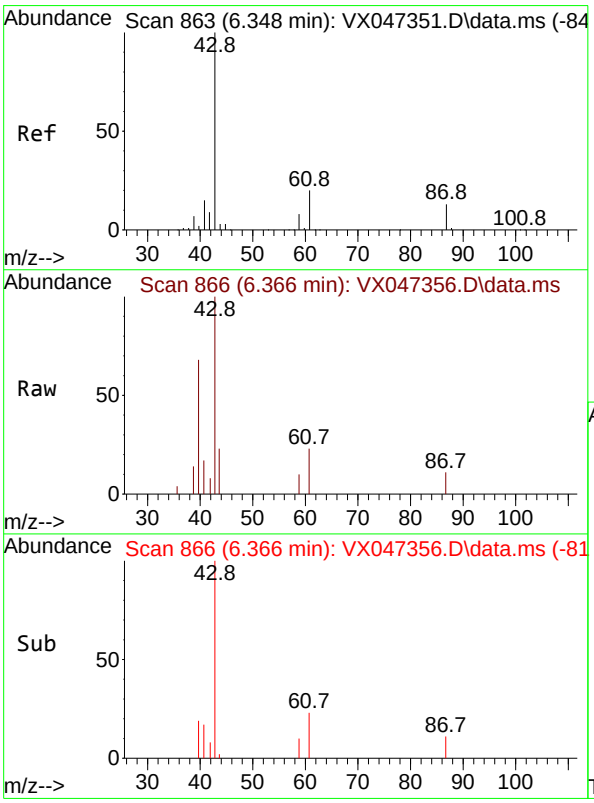
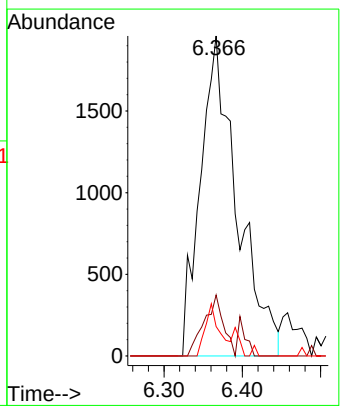
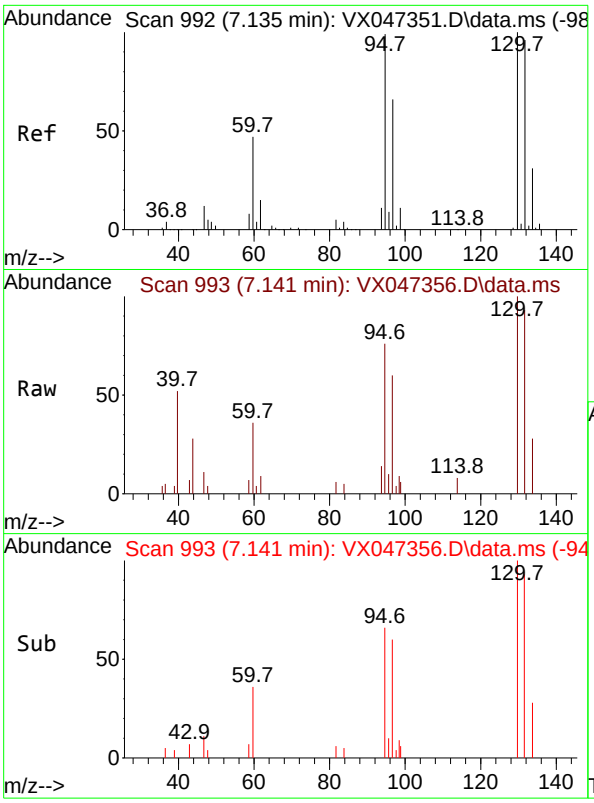


#43
Isopropyl Acetate
Concen: 0.844 ug/l
RT: 6.366 min Scan# 866
Delta R.T. 0.018 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 43 Resp: 6382

Ion	Ratio	Lower	Upper
43	100		
61	10.0	15.4	23.0#
87	6.4	10.2	15.4#





#44
Trichloroethene
Concen: 0.857 ug/l
RT: 7.141 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:130 Resp: 332

Ion	Ratio	Lower	Upper
130	100		
95	86.1	0.0	198.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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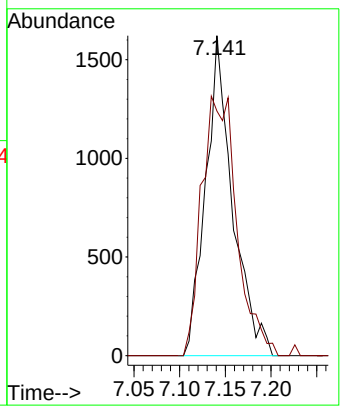
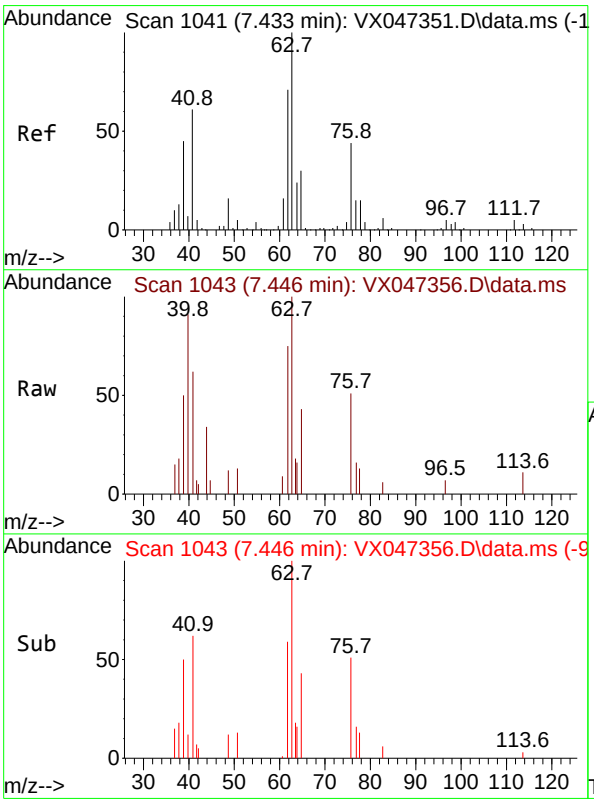
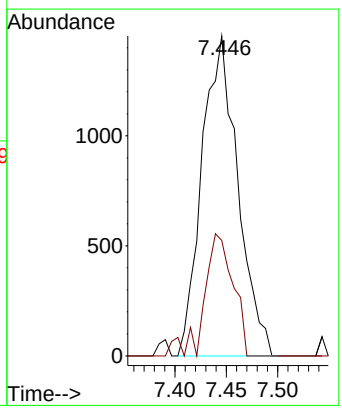


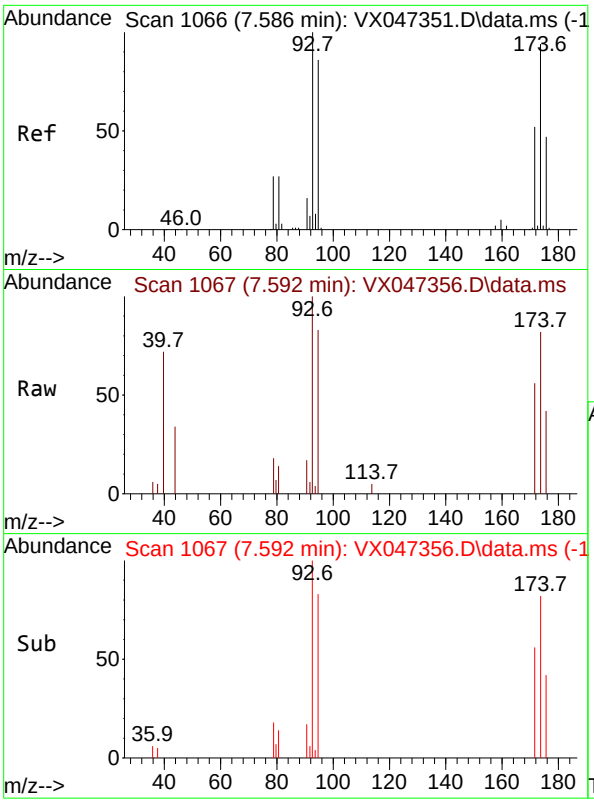


#45
1,2-Dichloropropane
Concen: 0.929 ug/l
RT: 7.446 min Scan# 1043
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 63 Resp: 3532

Ion	Ratio	Lower	Upper
63	100		
65	36.1	23.8	35.6#

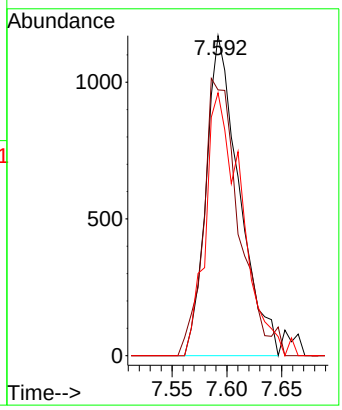




#46
Dibromomethane
Concen: 0.889 ug/l
RT: 7.592 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 93 Resp: 245

Ion	Ratio	Lower	Upper
93	100		
95	92.7	68.0	102.0
174	90.2	75.8	113.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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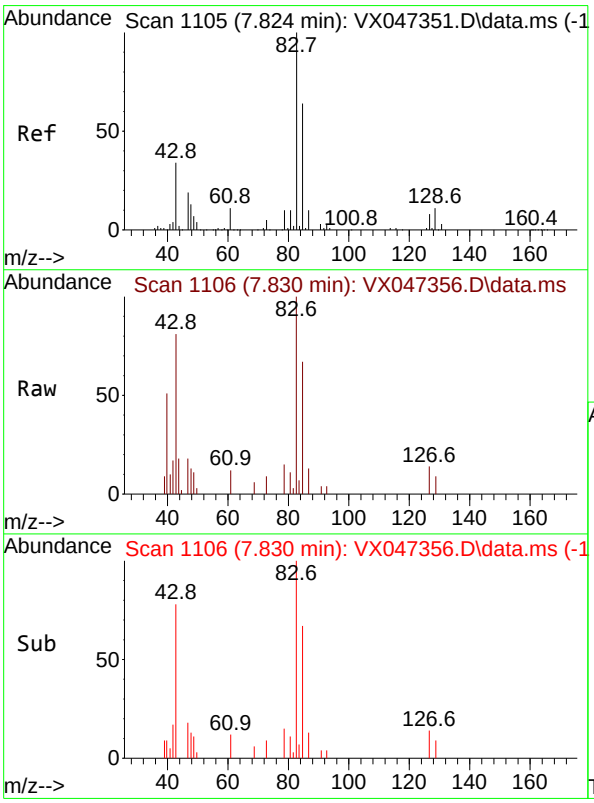
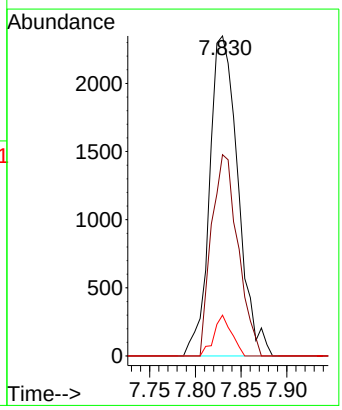
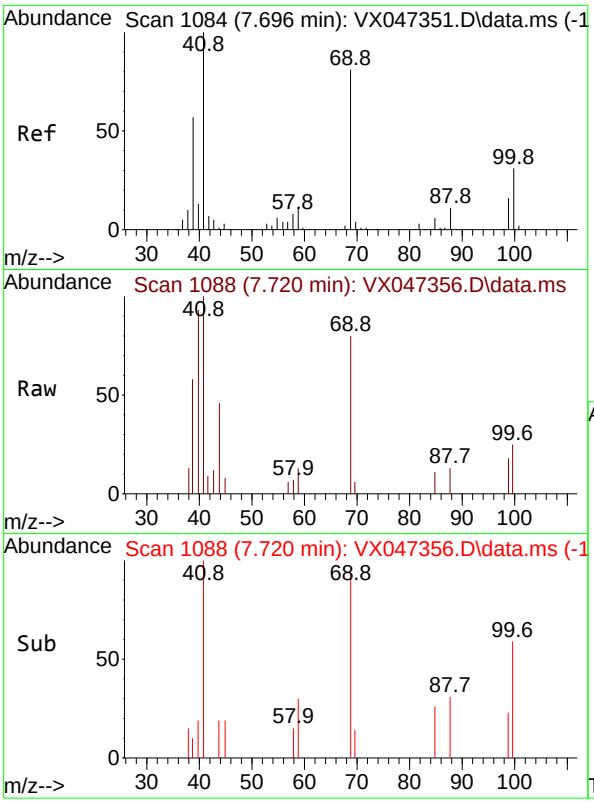


#47
Bromodichloromethane
Concen: 0.888 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 83 Resp: 5078

Ion	Ratio	Lower	Upper
83	100		
85	62.9	51.0	76.6
127	12.8	7.0	10.4#

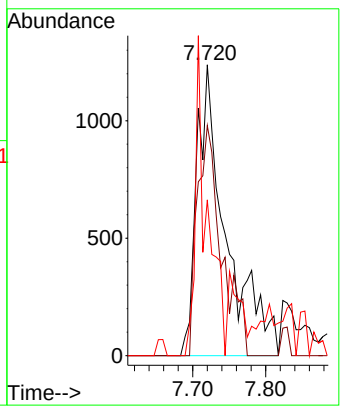




#48
Methyl methacrylate
Concen: 0.887 ug/l m
RT: 7.720 min Scan# 1
Delta R.T. 0.024 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 41 Resp: 348

Ion	Ratio	Lower	Upper
41	100		
69	65.9	65.0	97.4
39	43.9	45.7	68.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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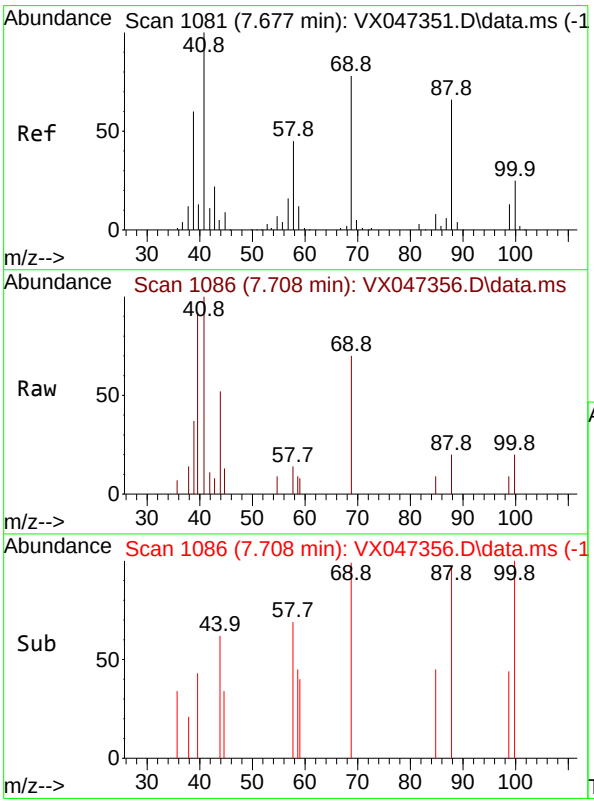
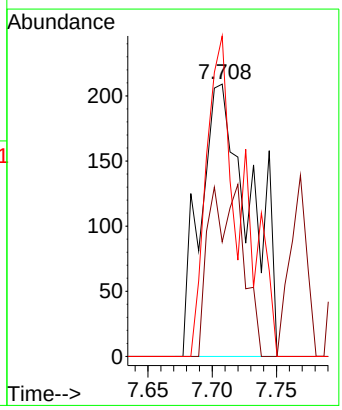
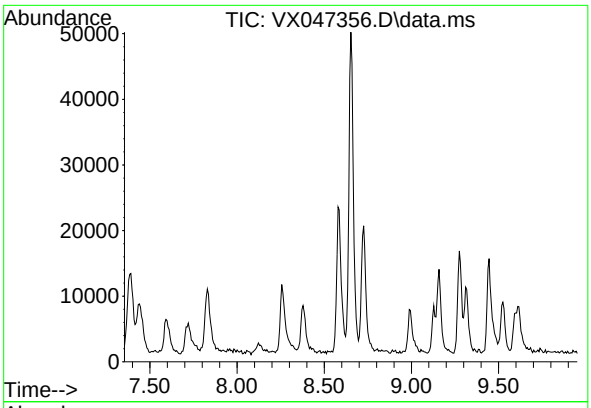


#49
1,4-Dioxane
Concen: 15.003 ug/l m
RT: 7.708 min Scan# 1086
Delta R.T. 0.030 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 88 Resp: 559

Ion	Ratio	Lower	Upper
88	100		
43	0.0	32.4	48.6#
58	58.0	56.9	85.3





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

Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	67.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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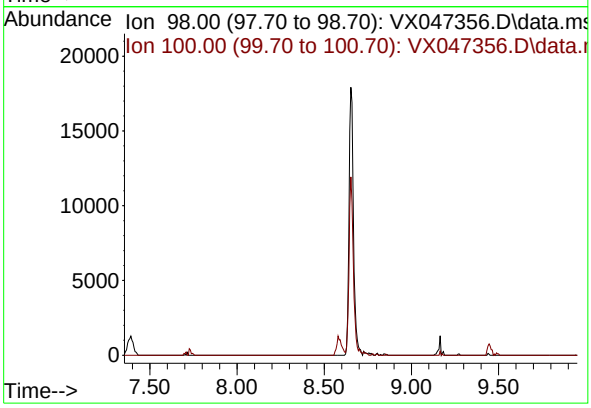
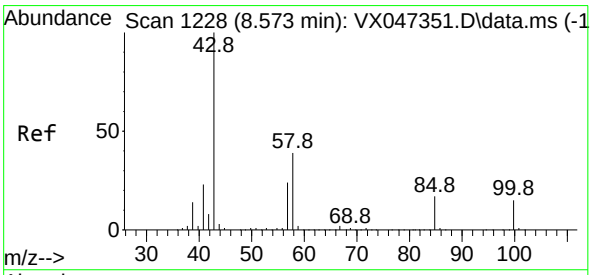
Supervised By :Mahesh Dadoda 08/19/2025

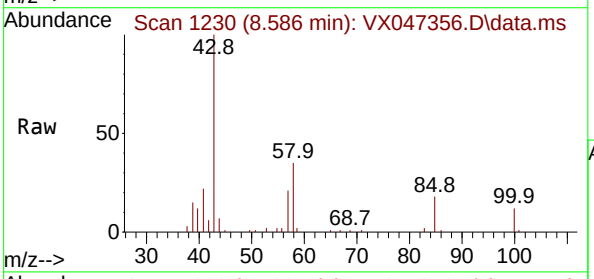


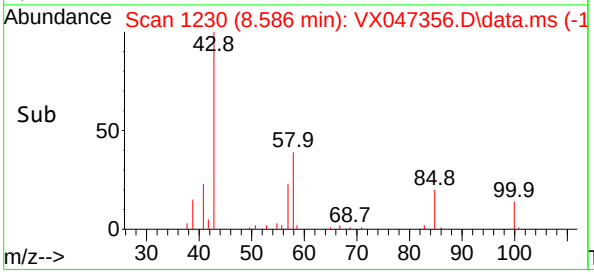


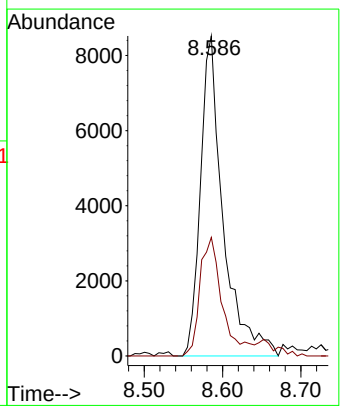
#51
4-Methyl-2-Pentanone
Concen: 3.933 ug/l
RT: 8.586 min Scan# 1230
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

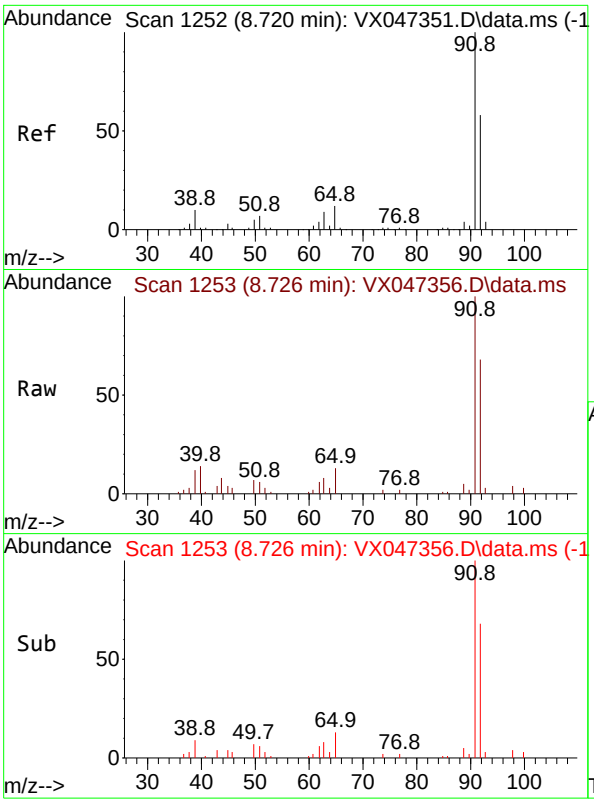
Tgt Ion: 43 Resp: 17109

Ion	Ratio	Lower	Upper
43	100		
58	36.8	31.2	46.8





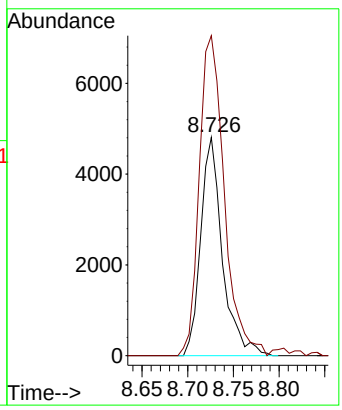




#52
Toluene
Concen: 0.846 ug/l
RT: 8.726 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 92 Resp: 793

Ion	Ratio	Lower	Upper
92	100		
91	168.9	136.3	204.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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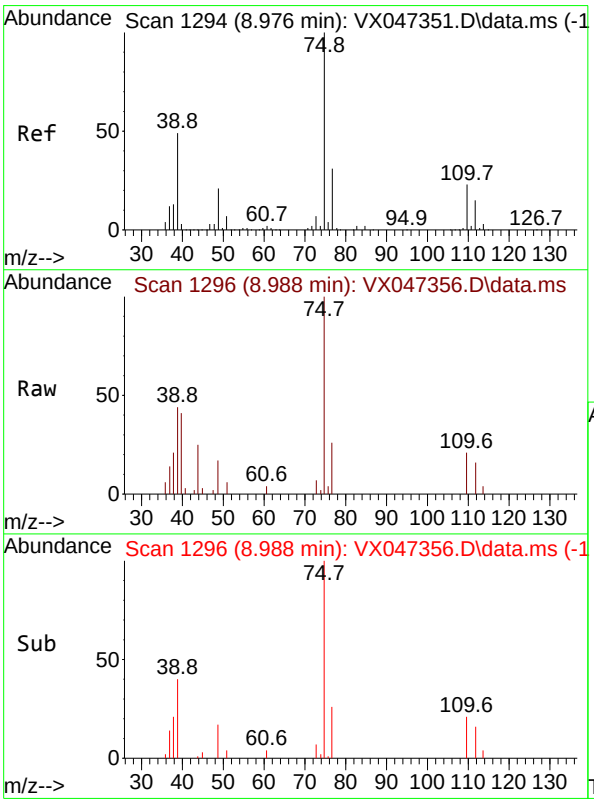
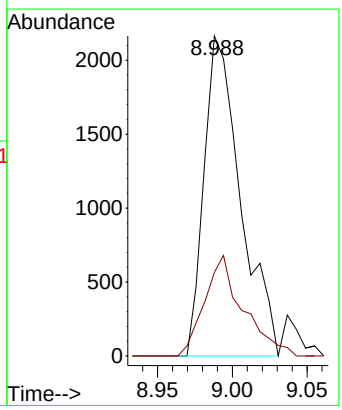
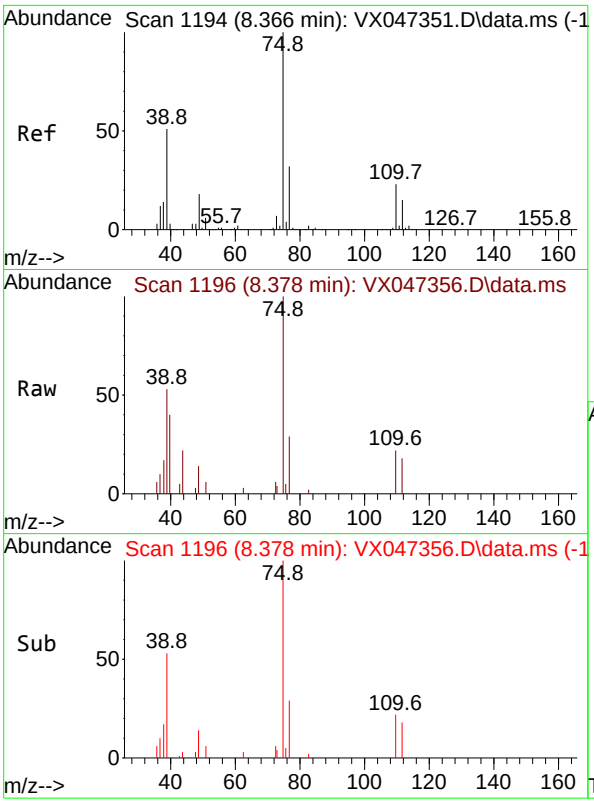


#53
t-1,3-Dichloropropene
Concen: 0.735 ug/l
RT: 8.988 min Scan# 1296
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 75 Resp: 3671

Ion	Ratio	Lower	Upper
75	100		
77	26.1	24.7	37.1

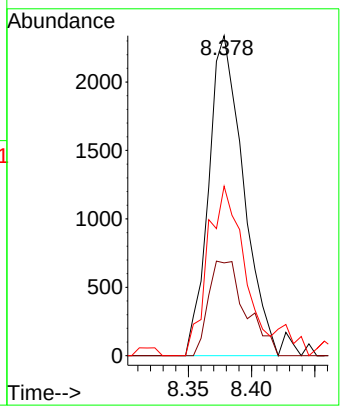




#54
cis-1,3-Dichloropropene
Concen: 0.790 ug/l
RT: 8.378 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 75 Resp: 446

Ion	Ratio	Lower	Upper
75	100		
77	27.6	25.6	38.4
39	47.5	40.9	61.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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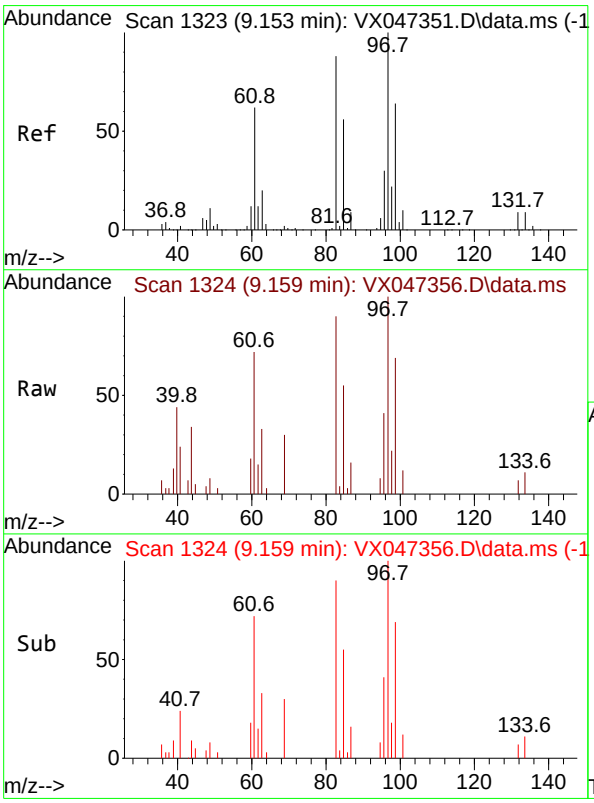
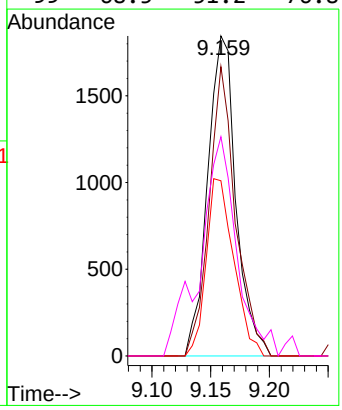
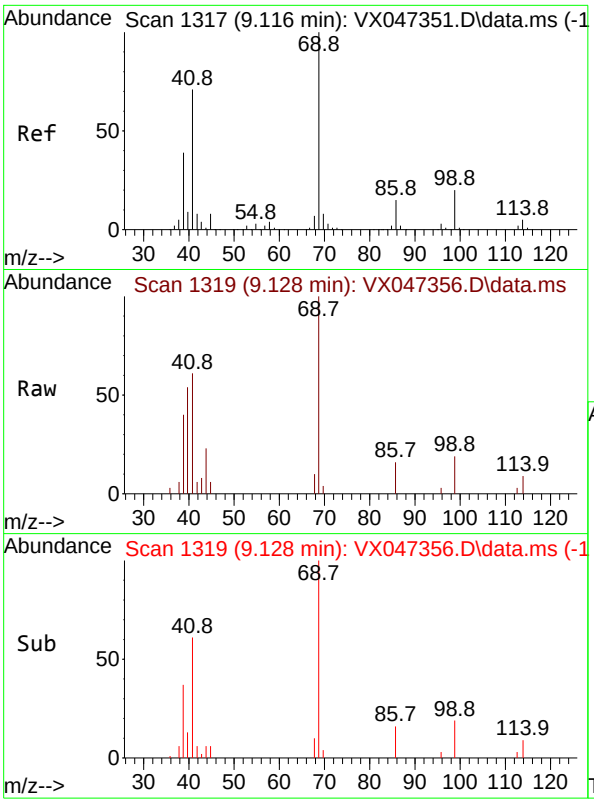


#55
1,1,2-Trichloroethane
Concen: 0.870 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 97 Resp: 3095

Ion	Ratio	Lower	Upper
97	100		
83	90.4	70.6	106.0
85	54.7	44.7	67.1
99	68.5	51.2	76.8

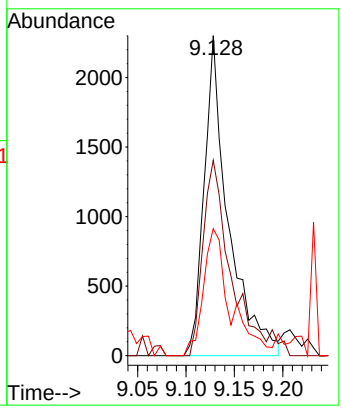




#56
Ethyl methacrylate
Concen: 0.763 ug/l
RT: 9.128 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 69 Resp: 400

Ion	Ratio	Lower	Upper
69	100		
41	71.7	55.3	82.9
39	44.4	30.2	45.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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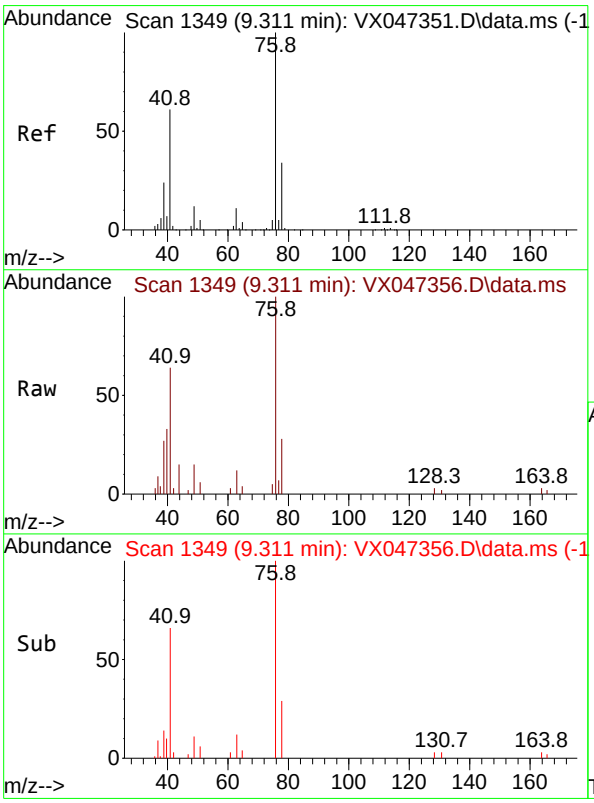
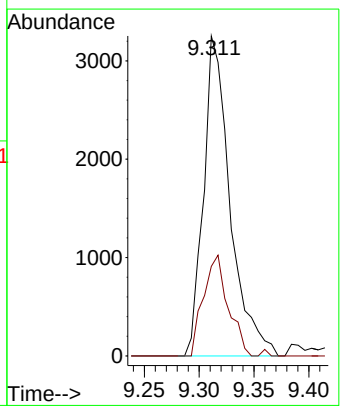
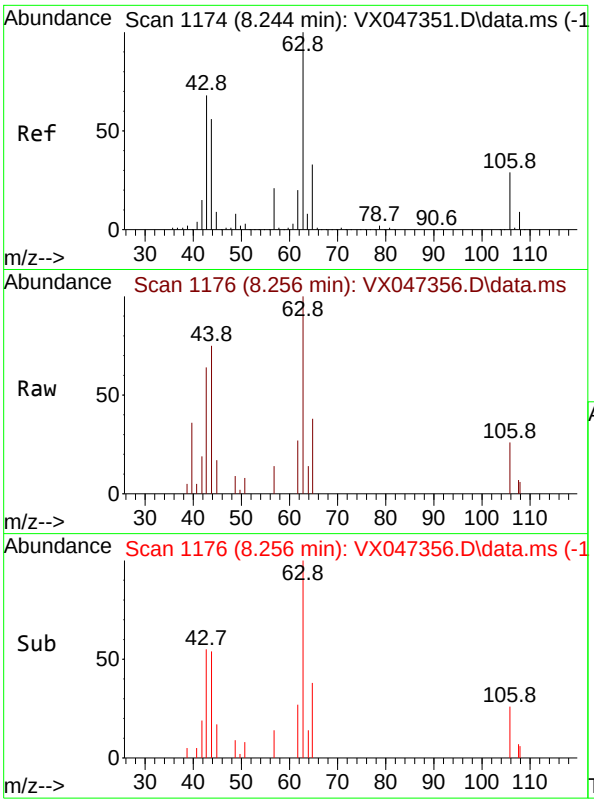


#57
1,3-Dichloropropane
Concen: 0.902 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 76 Resp: 5471

Ion	Ratio	Lower	Upper
76	100		
78	29.4	26.2	39.2

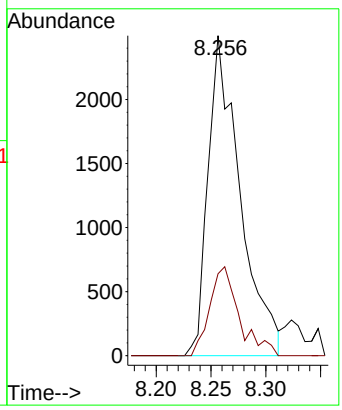




#58
2-Chloroethyl Vinyl ether
Concen: 10.313 ug/l
RT: 8.256 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 63 Resp: 507

Ion	Ratio	Lower	Upper
63	100		
106	25.6	22.8	34.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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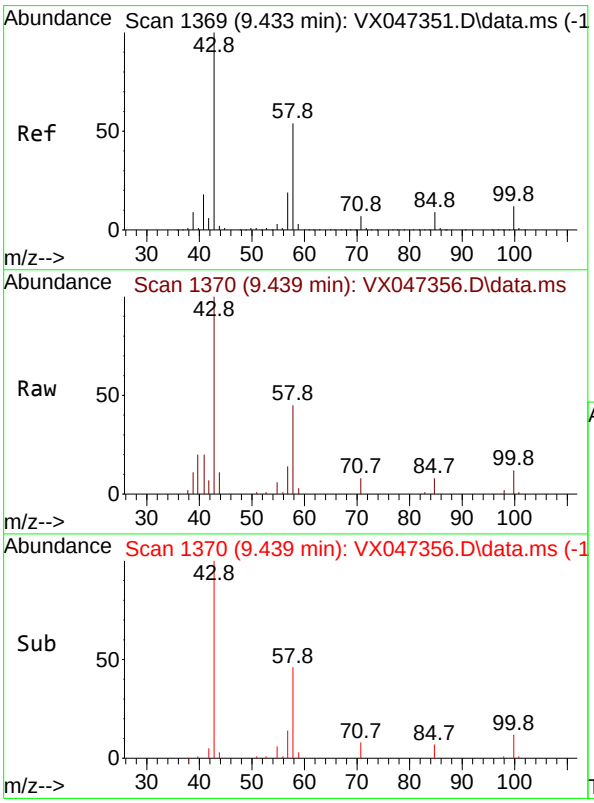
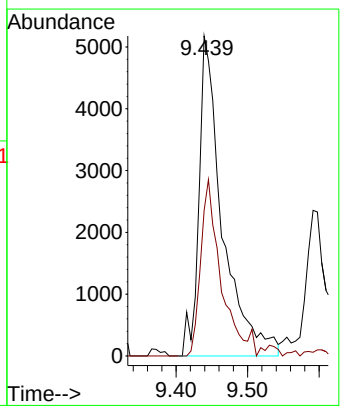
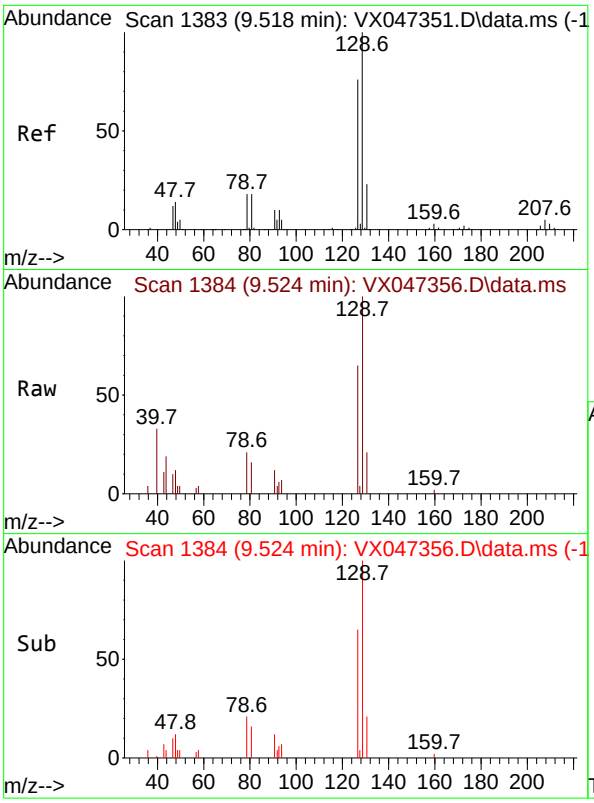


#59
2-Hexanone
Concen: 3.926 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 43 Resp: 11811

Ion	Ratio	Lower	Upper
43	100		
58	48.3	26.9	80.7

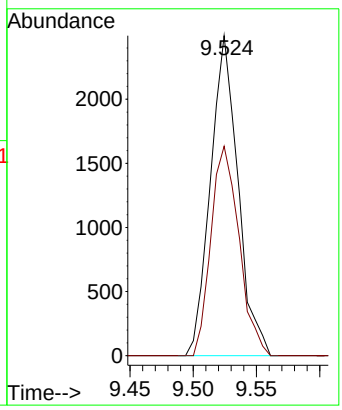




#60
Dibromochloromethane
Concen: 0.893 ug/l
RT: 9.524 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:129 Resp: 377

Ion	Ratio	Lower	Upper
129	100		
127	66.8	38.9	116.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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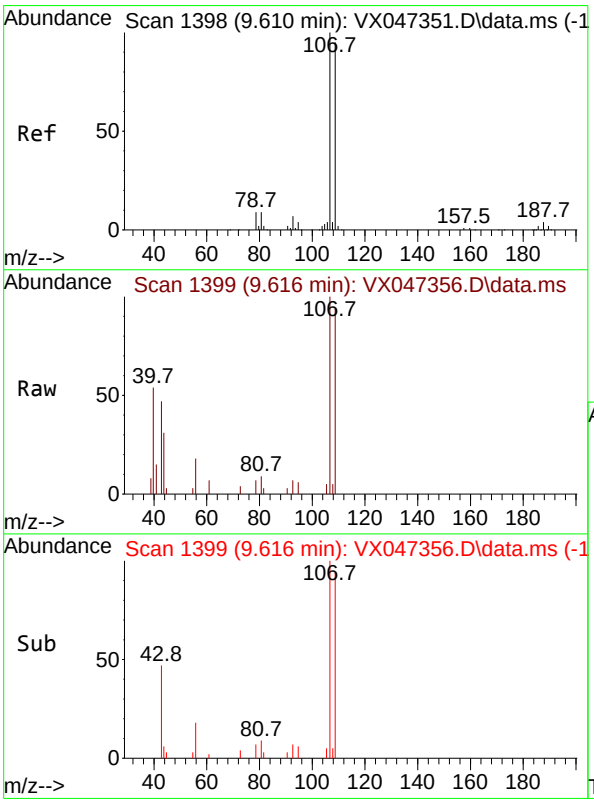
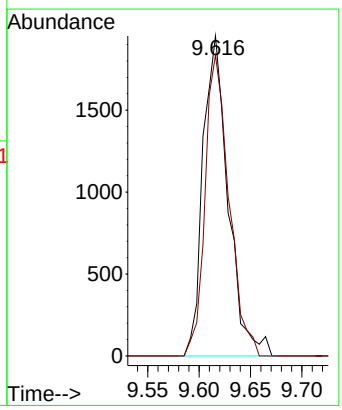
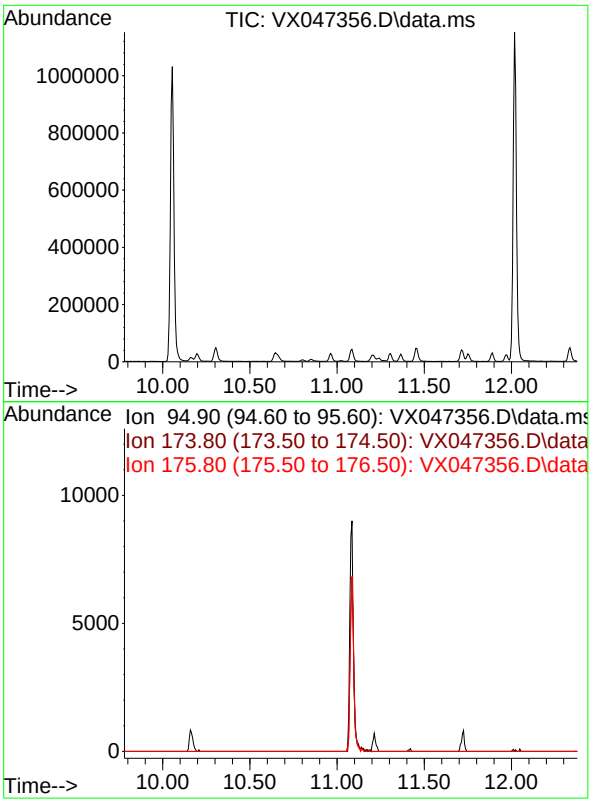


#61
1,2-Dibromoethane
Concen: 0.906 ug/l
RT: 9.616 min Scan# 1399
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:107 Resp: 3325

Ion	Ratio	Lower	Upper
107	100		
109	89.7	76.2	114.2





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

Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 95

Sig	Exp Ratio
95	100
174	74.0
176	72.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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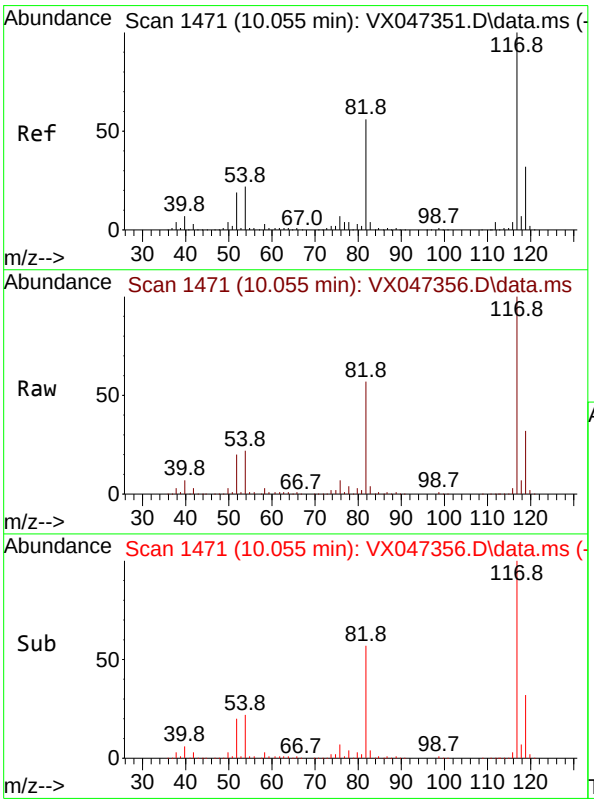
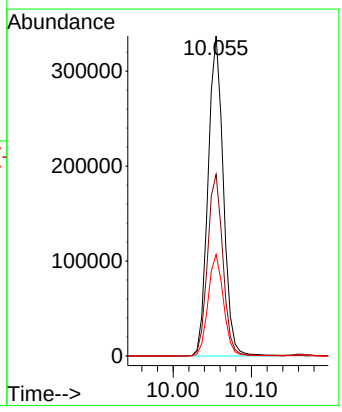
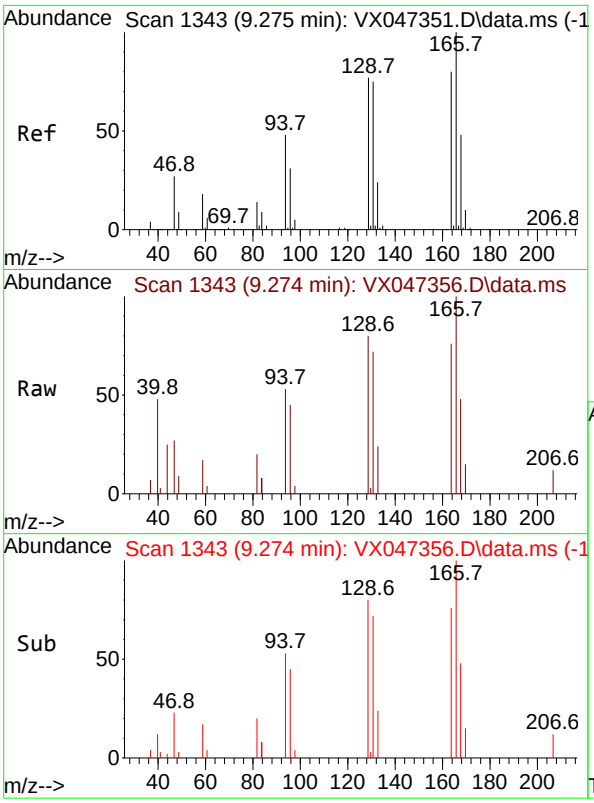


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:117 Resp: 456440

Ion	Ratio	Lower	Upper
117	100		
82	56.8	45.0	67.4
119	31.7	25.8	38.8

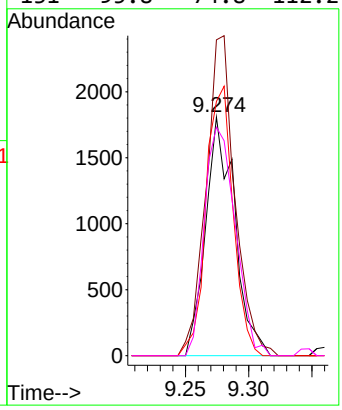




#64
Tetrachloroethene
Concen: 0.875 ug/l
RT: 9.274 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:164 Resp: 288

Ion	Ratio	Lower	Upper
164	100		
166	132.4	100.3	150.5
129	106.6	77.7	116.5
131	95.8	74.8	112.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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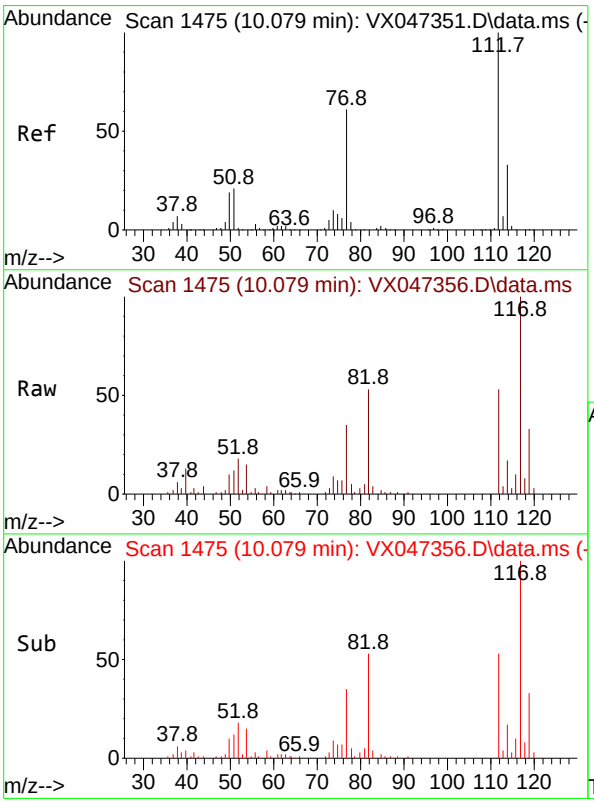
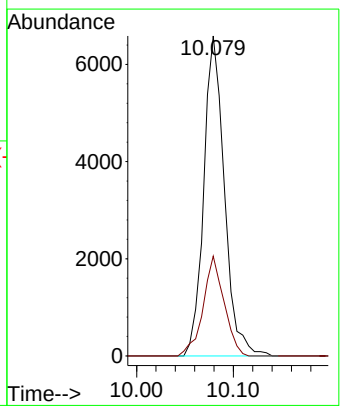
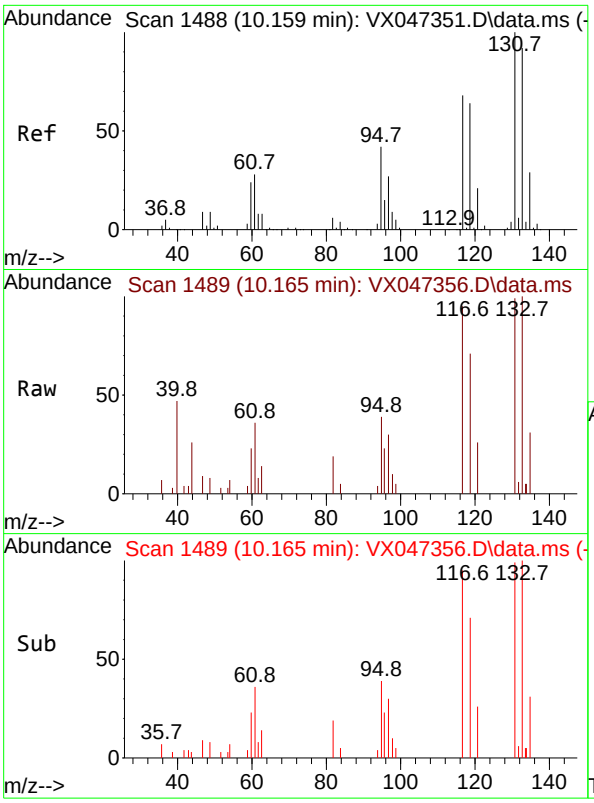


#65
Chlorobenzene
Concen: 0.903 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:112 Resp: 9799

Ion	Ratio	Lower	Upper
112	100		
114	31.2	26.4	39.6

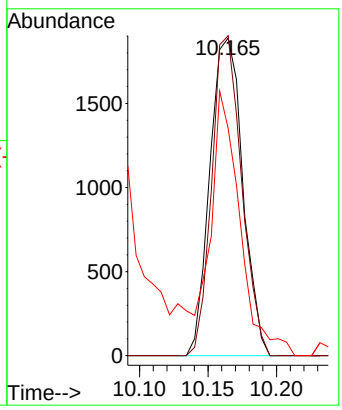




#66
1,1,1,2-Tetrachloroethane
Concen: 0.858 ug/l
RT: 10.165 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:131 Resp: 314

Ion	Ratio	Lower	Upper
131	100		
133	91.9	47.6	142.9
119	0.0	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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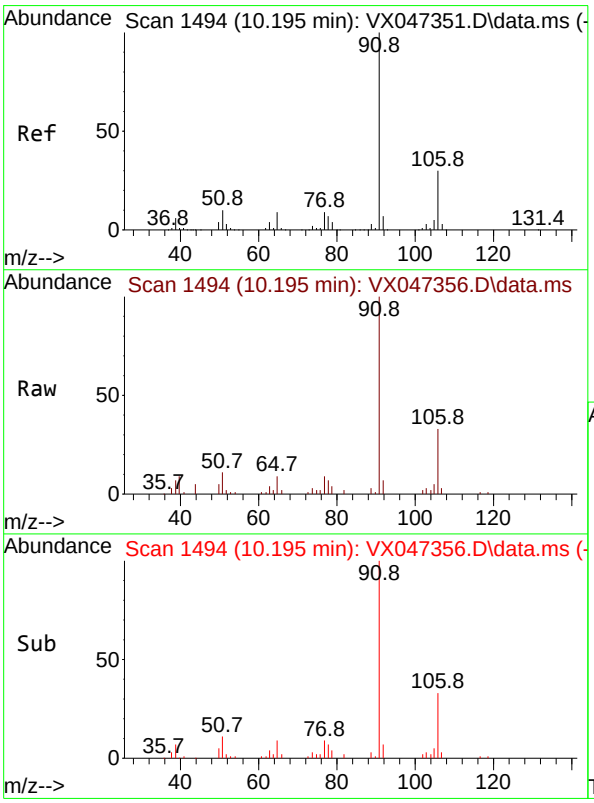
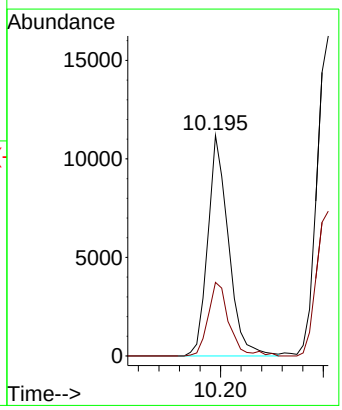
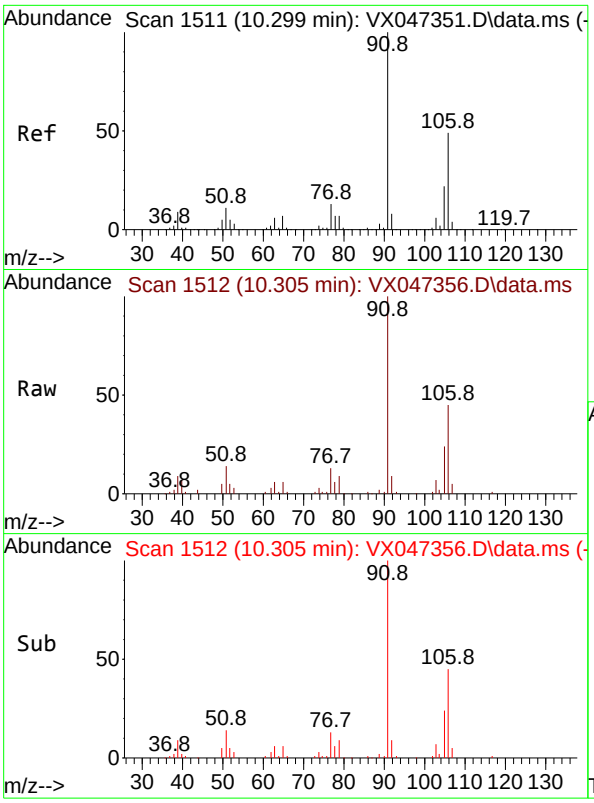


#67
Ethyl Benzene
Concen: 0.840 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 91 Resp: 15680

Ion	Ratio	Lower	Upper
91	100		
106	35.9	24.4	36.6





#68
m/p-Xylenes
Concen: 1.683 ug/l
RT: 10.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:106 Resp: 1171

Ion	Ratio	Lower	Upper
106	100		
91	203.4	164.7	247.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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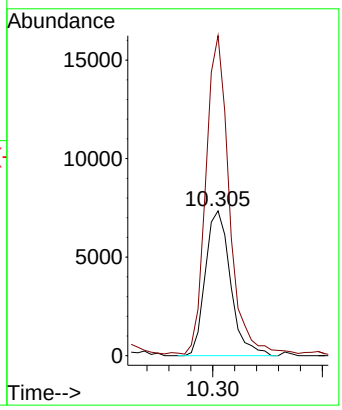
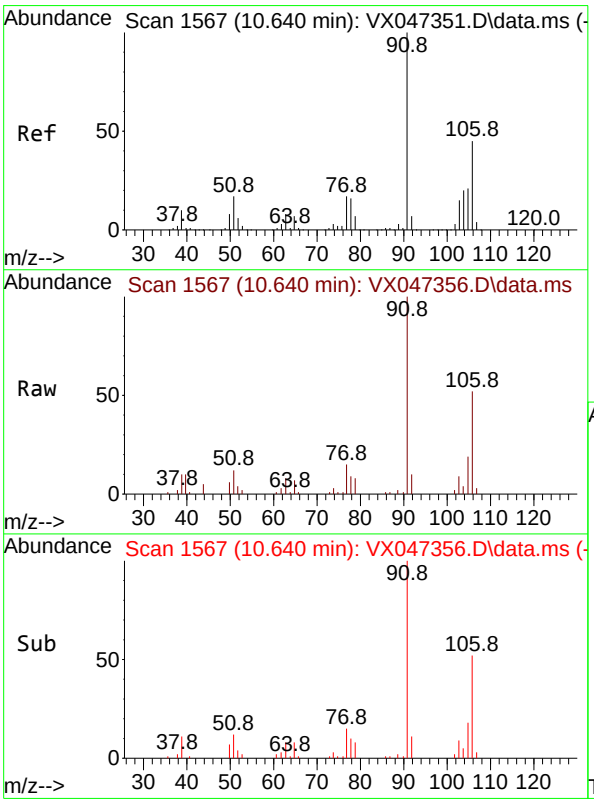
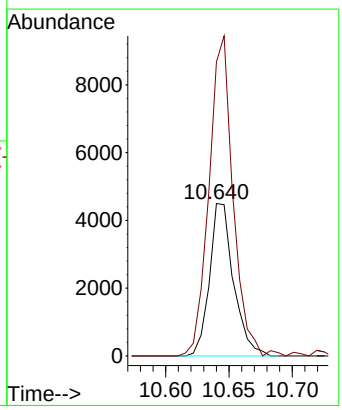


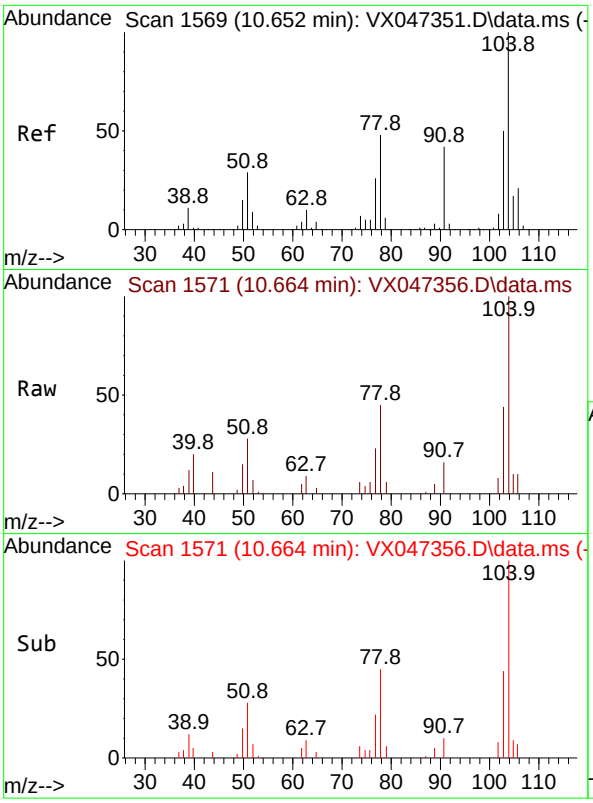


#69
o-Xylene
Concen: 0.887 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:106 Resp: 5943

Ion	Ratio	Lower	Upper
106	100		
91	210.1	110.6	331.8

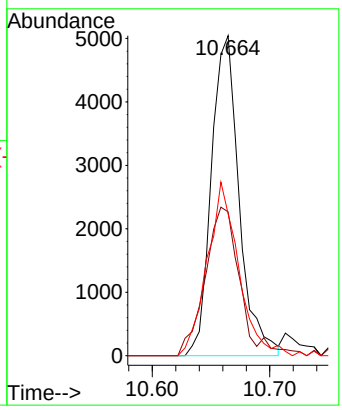




#70
Styrene
Concen: 0.733 ug/l
RT: 10.664 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:104 Resp: 829

Ion	Ratio	Lower	Upper
104	100		
78	57.9	41.8	62.8
103	61.2	43.6	65.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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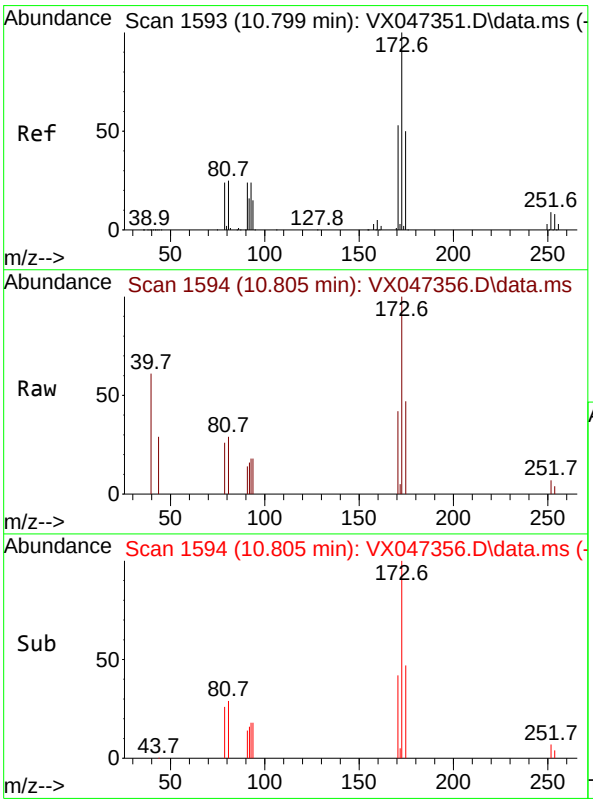
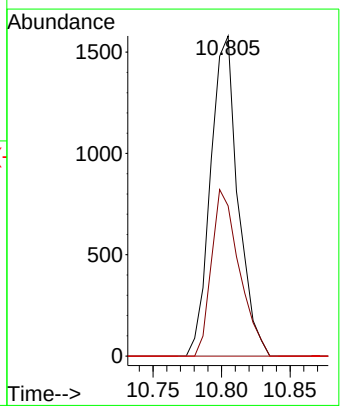
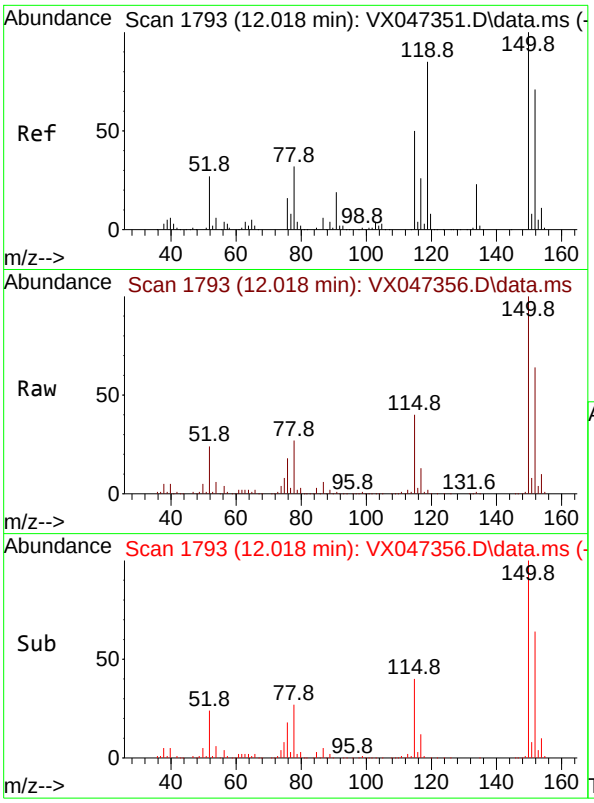


#71
Bromoform
Concen: 0.799 ug/l
RT: 10.805 min Scan# 1594
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:173 Resp: 2201

Ion	Ratio	Lower	Upper
173	100		
175	52.7	24.4	73.4
254	0.0	0.1	0.1#

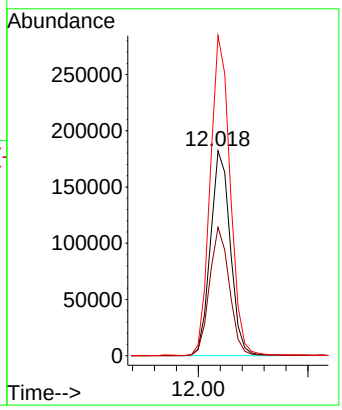




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:152 Resp: 22874

Ion	Ratio	Lower	Upper
152	100		
115	63.1	44.6	133.8
150	157.4	0.0	349.8



Instrument :
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ClientSampleId :
VSTDICC001

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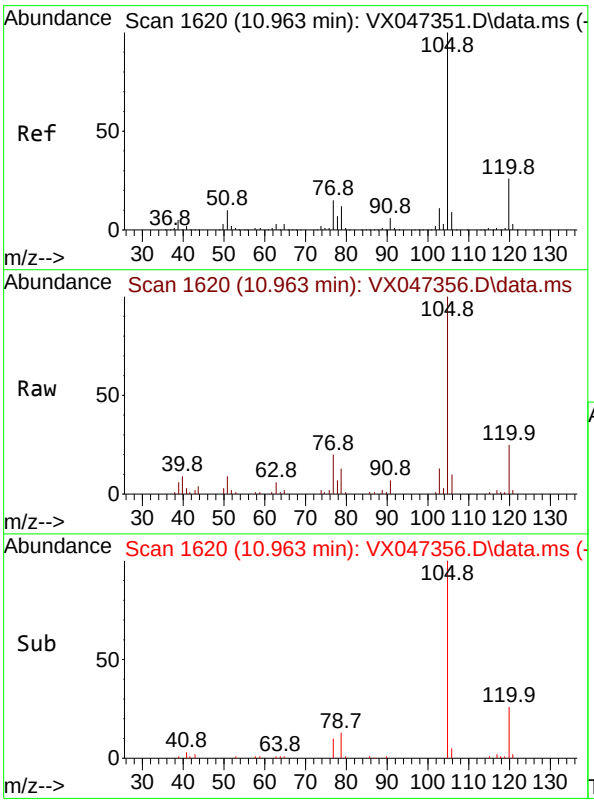
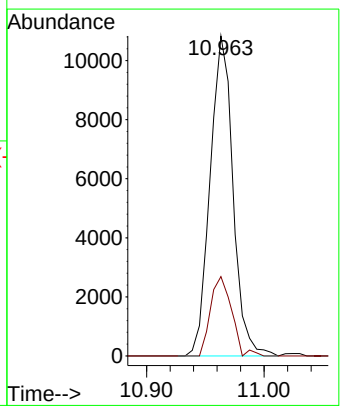
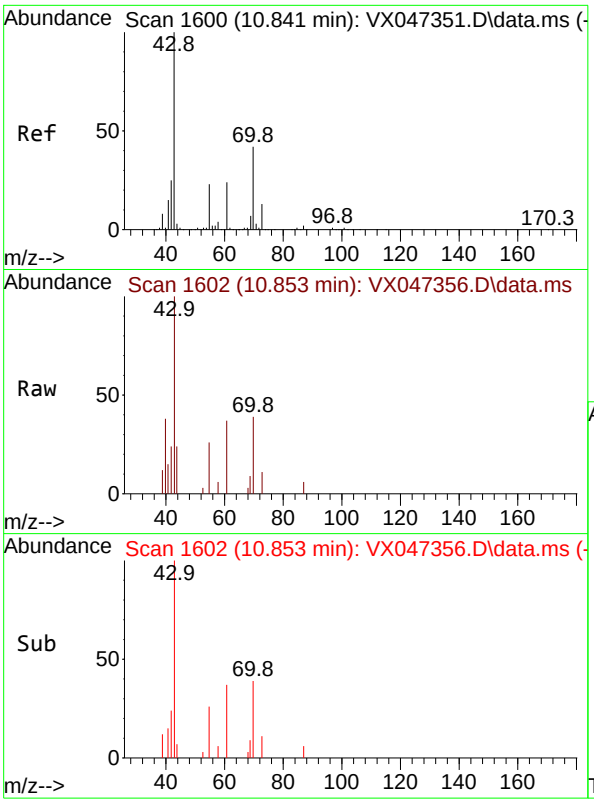


#73
Isopropylbenzene
Concen: 0.821 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:105 Resp: 14688

Ion	Ratio	Lower	Upper
105	100		
120	22.9	12.9	38.6

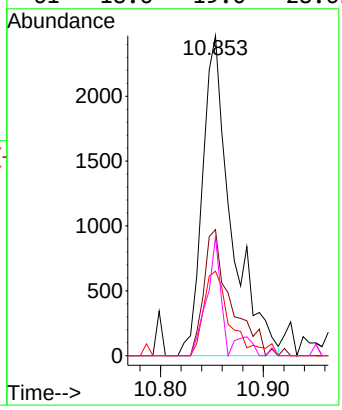




#74
N-amyl acetate
Concen: 0.705 ug/l
RT: 10.853 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 43 Resp: 479

Ion	Ratio	Lower	Upper
43	100		
70	37.3	33.1	49.7
55	24.5	19.0	28.6
61	18.6	19.0	28.6#



Instrument :
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ClientSampleId :
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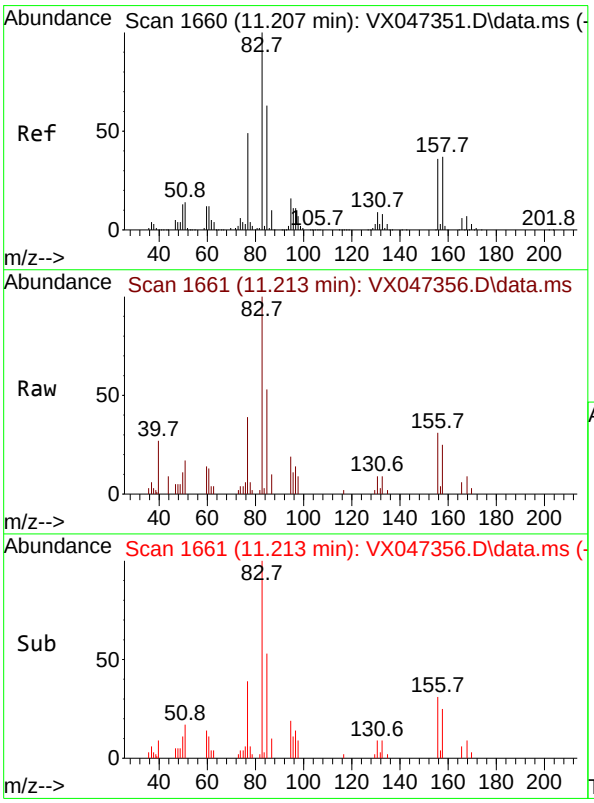
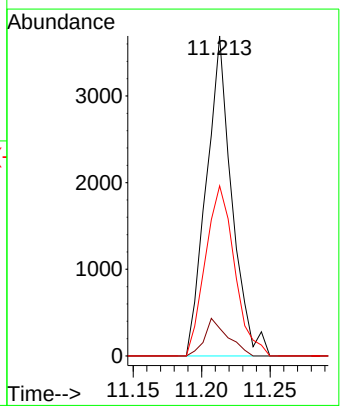
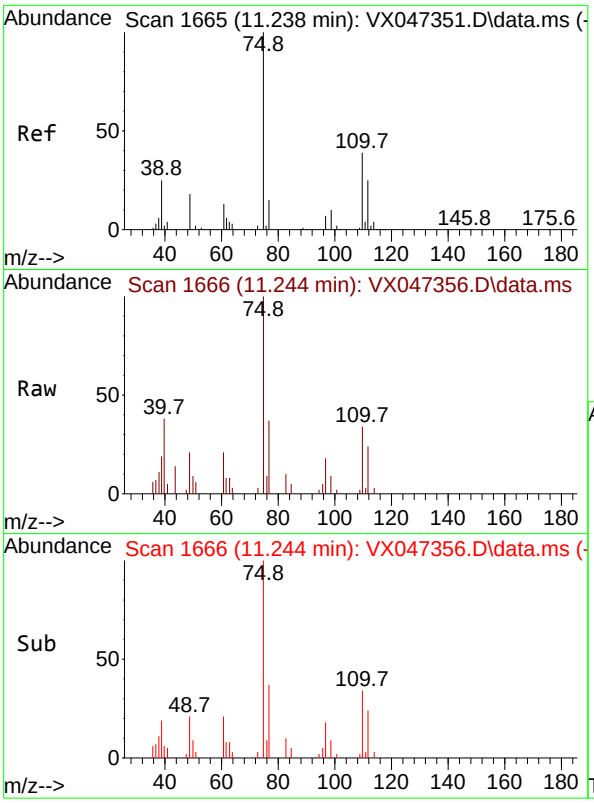


#75
1,1,2,2-Tetrachloroethane
Concen: 0.909 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 83 Resp: 4778

Ion	Ratio	Lower	Upper
83	100		
131	10.7	5.0	15.0
85	60.9	31.7	95.1

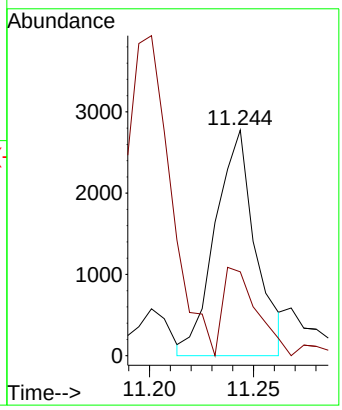




#76
1,2,3-Trichloropropane
Concen: 0.892 ug/l m
RT: 11.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 75 Resp: 374

Ion	Ratio	Lower	Upper
75	100		
77	32.6	19.4	58.2



Instrument :
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ClientSampleId :
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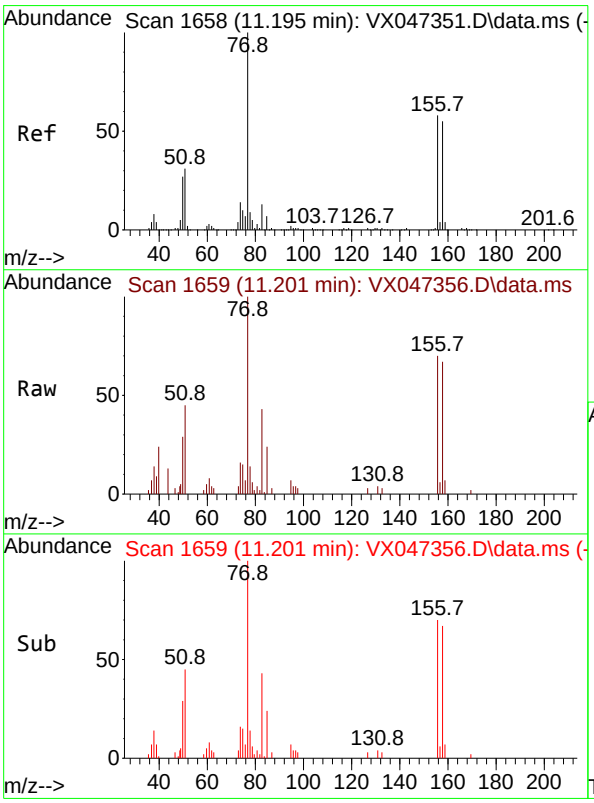
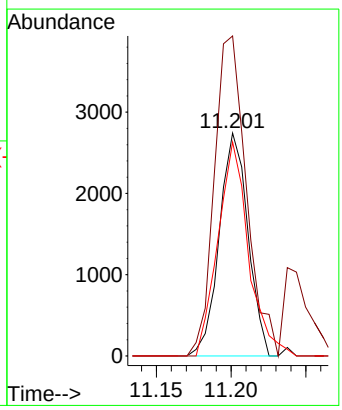
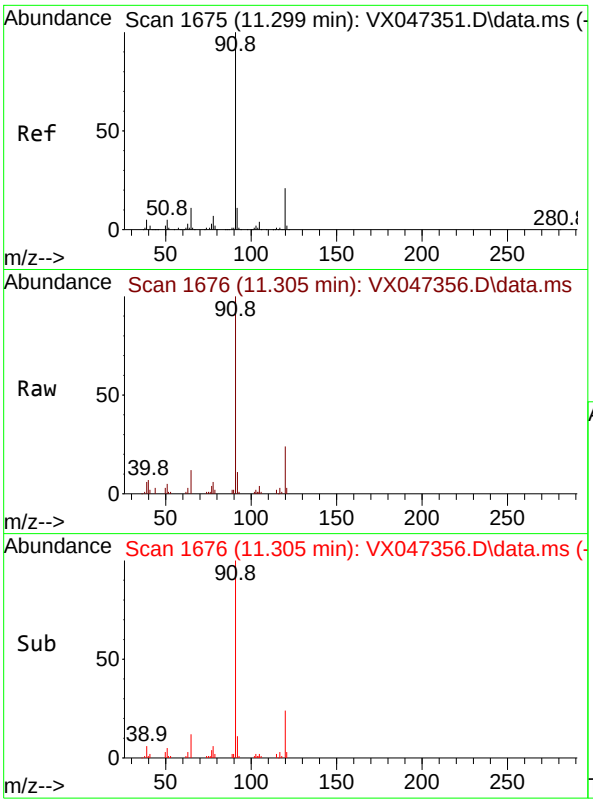


#77
Bromobenzene
Concen: 0.835 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:156 Resp: 3648

Ion	Ratio	Lower	Upper
156	100		
77	160.5	86.3	258.9
158	102.7	48.0	144.2

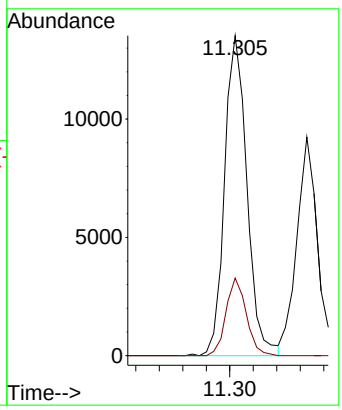




#78
n-propylbenzene
Concen: 0.836 ug/l
RT: 11.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 91 Resp: 1786

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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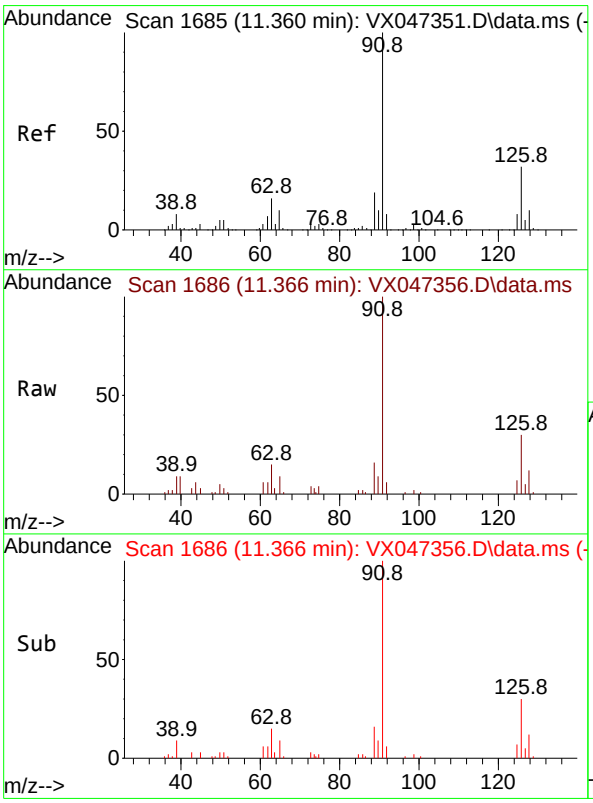
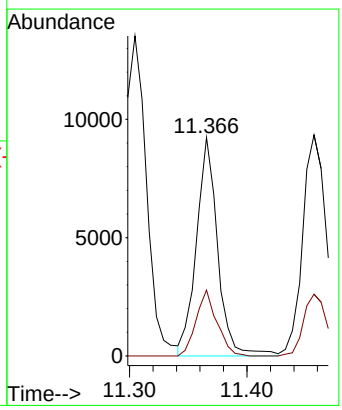
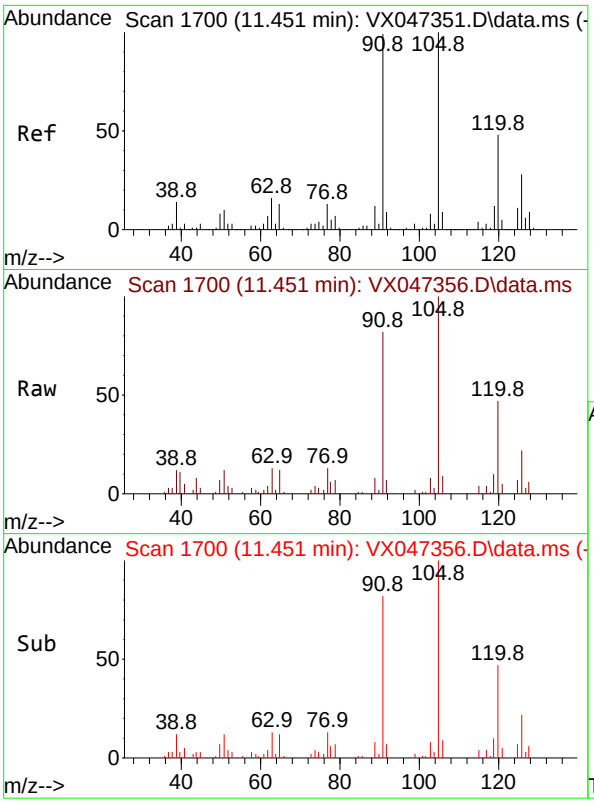


#79
2-Chlorotoluene
Concen: 0.901 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 91 Resp: 11644

Ion	Ratio	Lower	Upper
91	100		
126	29.4	16.7	50.1

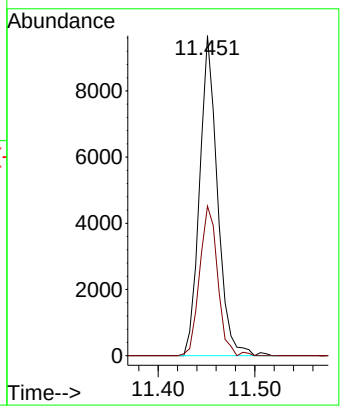




#80
1,3,5-Trimethylbenzene
Concen: 0.844 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:105 Resp: 1242

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.9	71.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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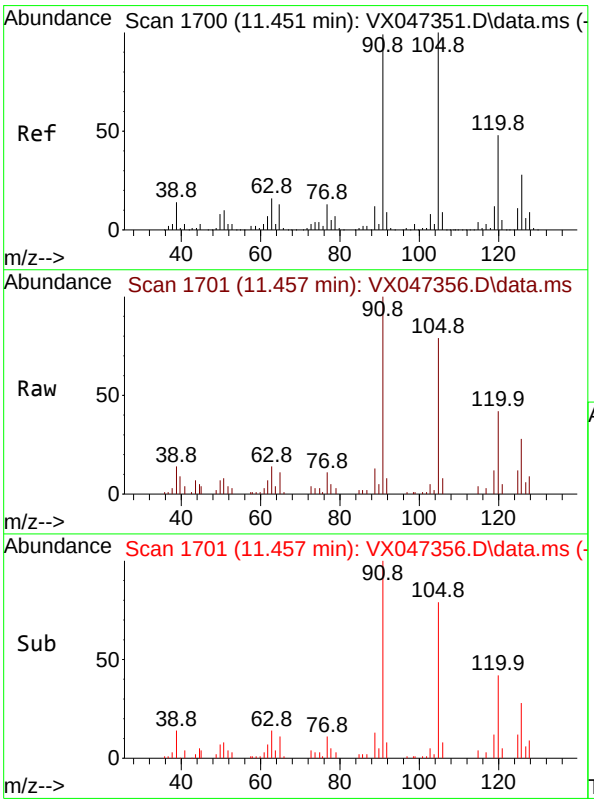
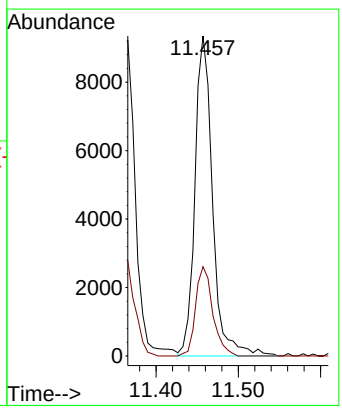
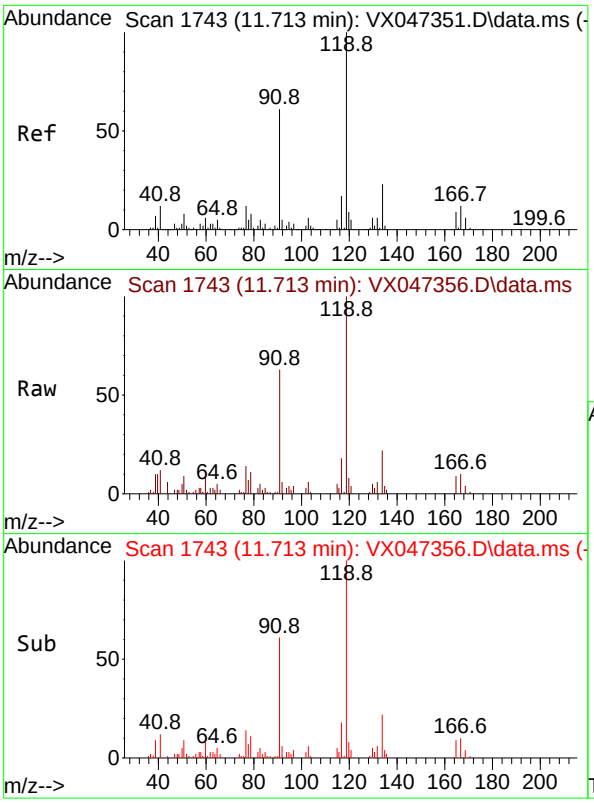


#82
4-Chlorotoluene
Concen: 0.914 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 91 Resp: 13922

Ion	Ratio	Lower	Upper
91	100		
126	27.2	14.4	43.0

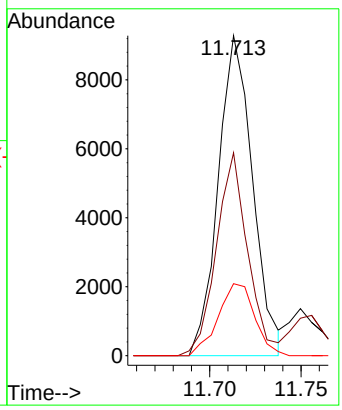




#83
tert-Butylbenzene
Concen: 0.828 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:119 Resp: 1216

Ion	Ratio	Lower	Upper
119	100		
91	58.0	29.1	87.4
134	24.0	11.3	33.9



Instrument :
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ClientSampleId :
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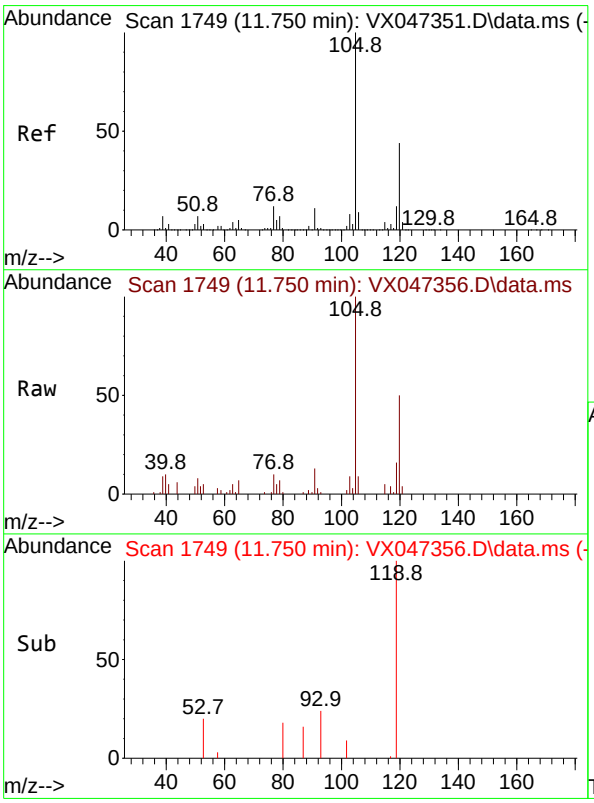
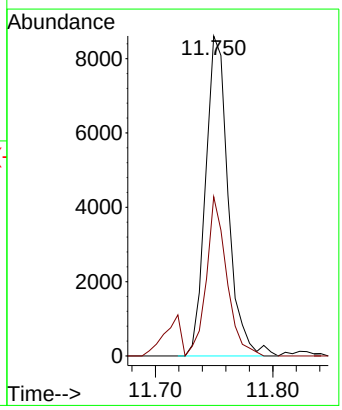
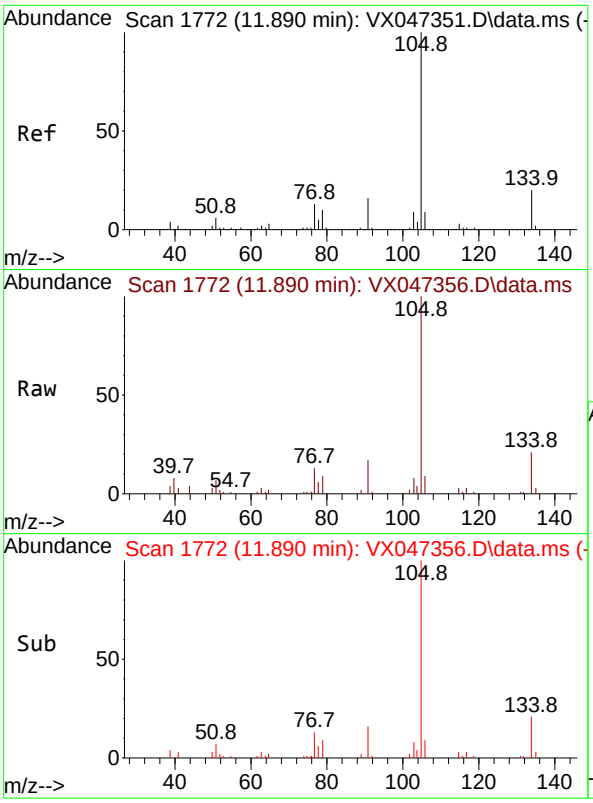


#84
1,2,4-Trimethylbenzene
Concen: 0.781 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:105 Resp: 11509

Ion	Ratio	Lower	Upper
105	100		
120	44.5	21.9	65.7





#85
sec-Butylbenzene
Concen: 0.822 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:105 Resp: 1497

Ion	Ratio	Lower	Upper
105	100		
134	21.0	9.8	29.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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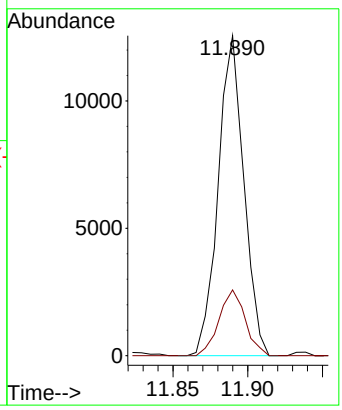
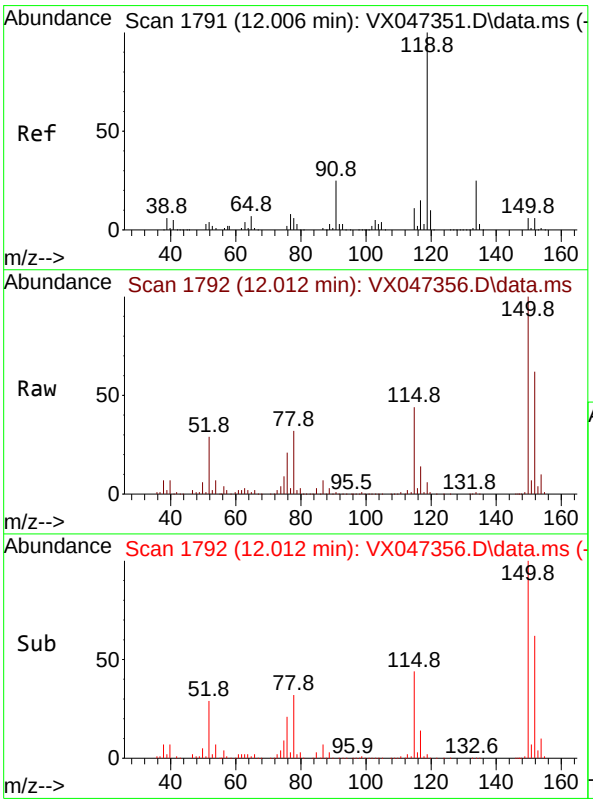
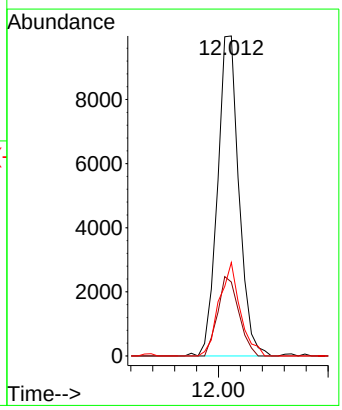


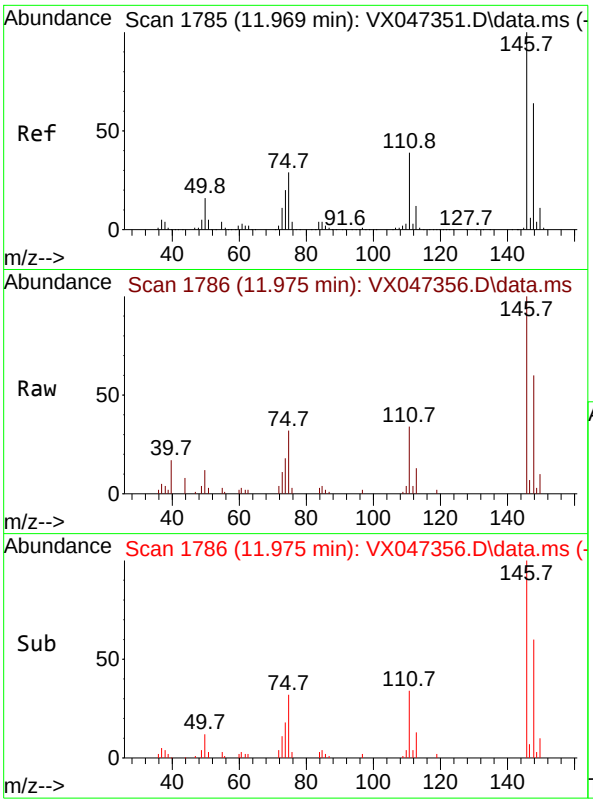


#86
p-Isopropyltoluene
Concen: 0.879 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:119 Resp: 13546

Ion	Ratio	Lower	Upper
119	100		
134	24.5	12.8	38.4
91	28.7	12.4	37.4

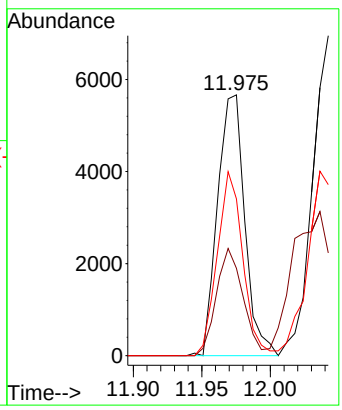




#87
1,3-Dichlorobenzene
Concen: 0.937 ug/l
RT: 11.975 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:146 Resp: 782

Ion	Ratio	Lower	Upper
146	100		
111	40.1	20.6	61.8
148	66.5	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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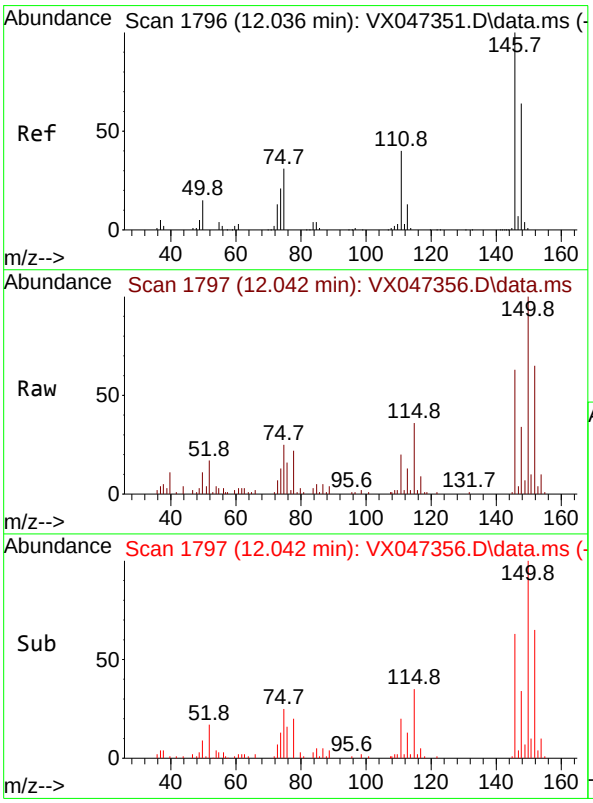
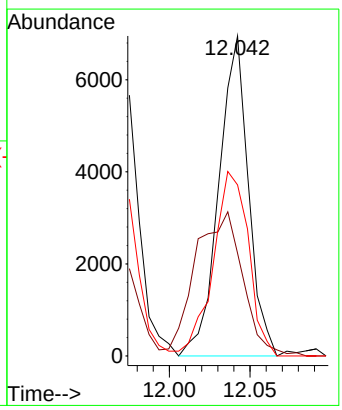
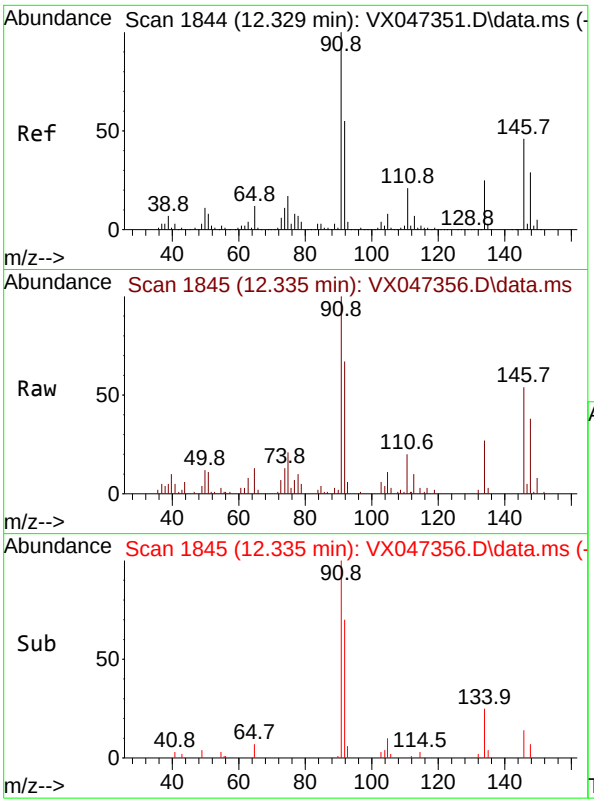


#88
1,4-Dichlorobenzene
Concen: 1.031 ug/l m
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:146 Resp: 8856

Ion	Ratio	Lower	Upper
146	100		
111	35.4	20.4	61.2
148	58.7	31.7	95.1

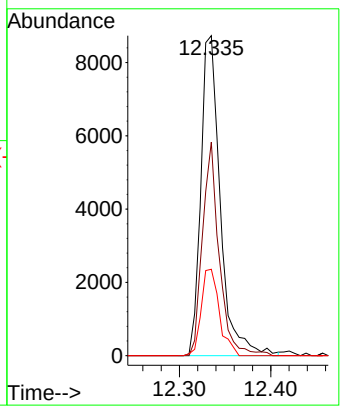




#89
n-Butylbenzene
Concen: 0.899 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 91 Resp: 1288

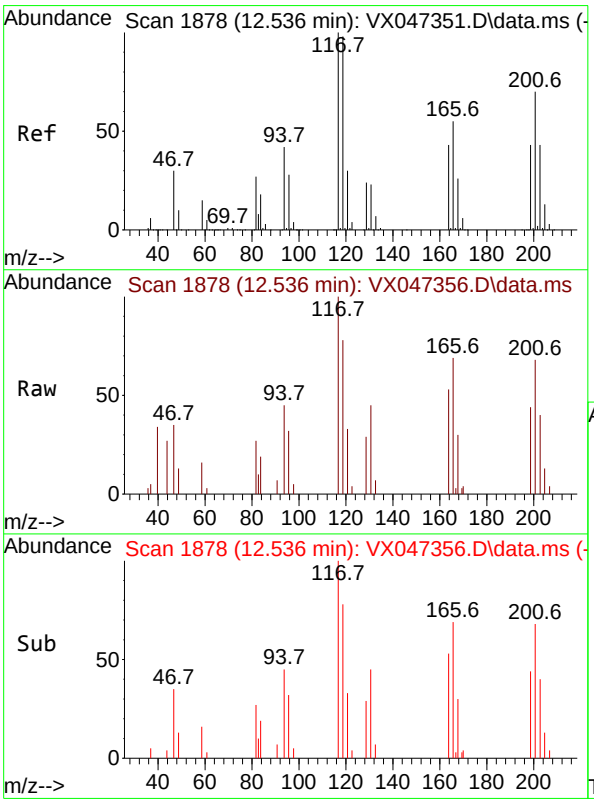
Ion	Ratio	Lower	Upper
91	100		
92	57.4	27.2	81.5
134	25.2	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

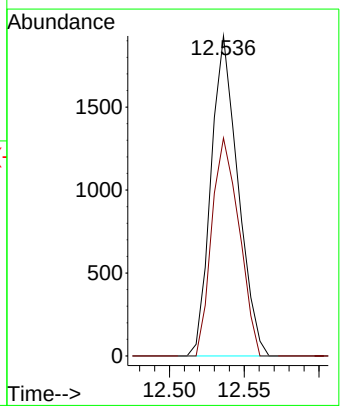
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

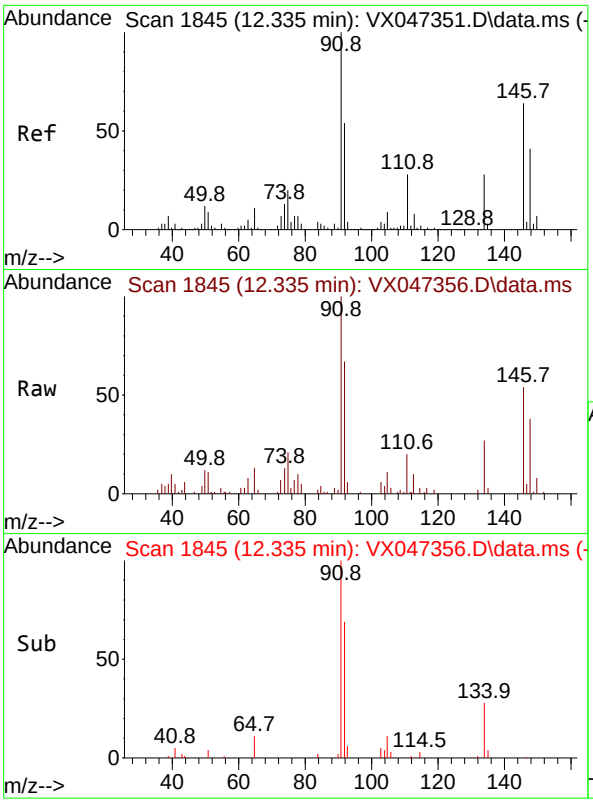


#90
Hexachloroethane
Concen: 0.895 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:117 Resp: 2421

Ion	Ratio	Lower	Upper
117	100		
201	68.9	35.1	105.3

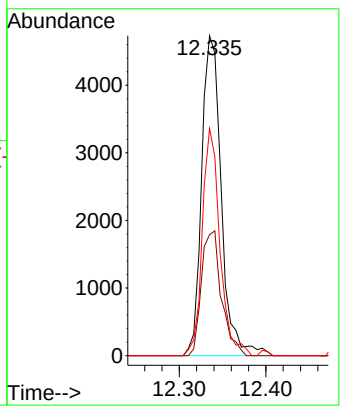




#91
1,2-Dichlorobenzene
Concen: 0.941 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:146 Resp: 746

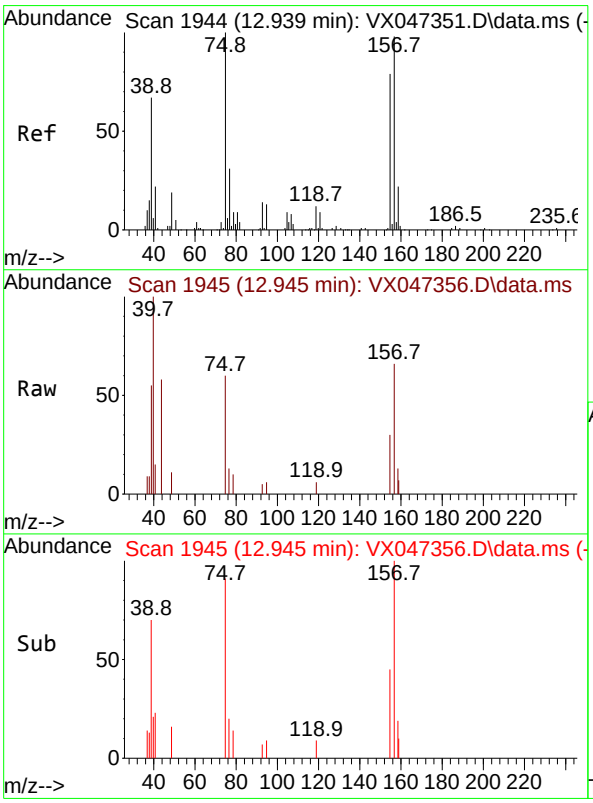
Ion	Ratio	Lower	Upper
146	100		
111	39.8	22.1	66.1
148	63.5	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

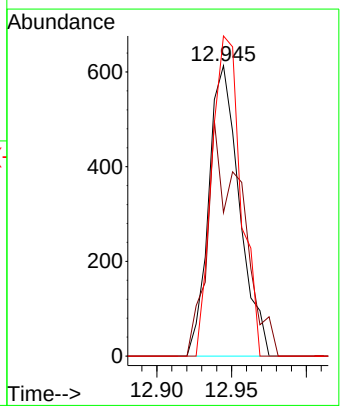
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

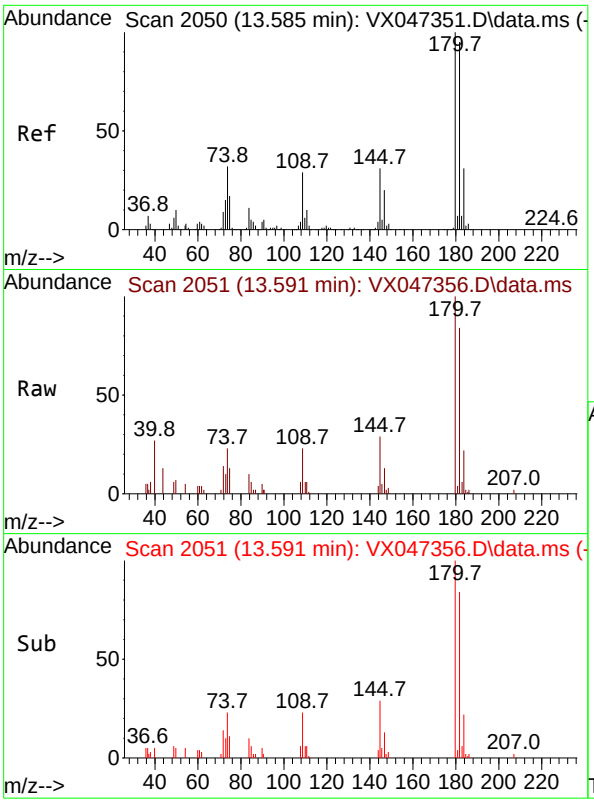


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.862 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 75 Resp: 876

Ion	Ratio	Lower	Upper
75	100		
155	89.8	41.3	123.7
157	104.6	51.5	154.5

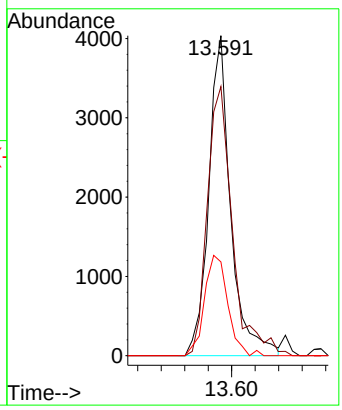




#93
1,2,4-Trichlorobenzene
Concen: 0.985 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:180 Resp: 523

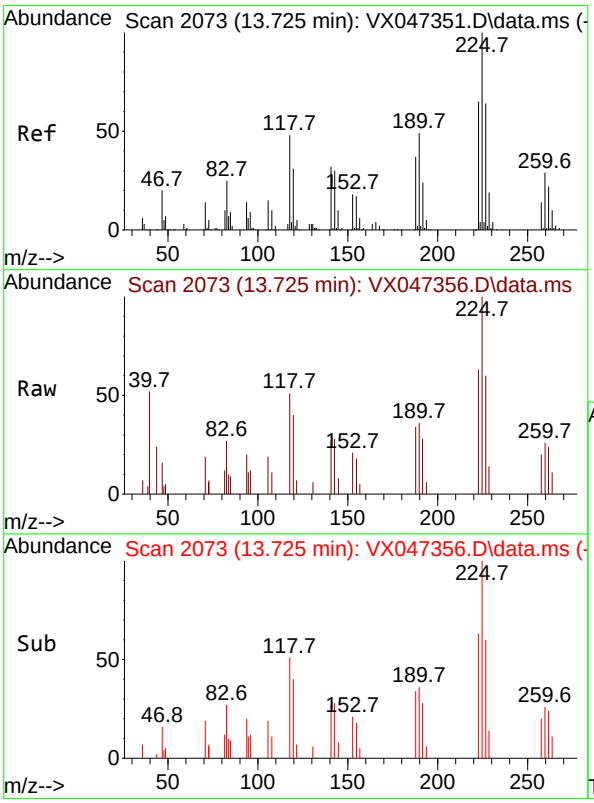
Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.1	144.4
145	33.3	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

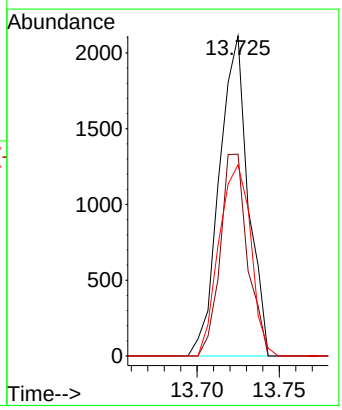
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

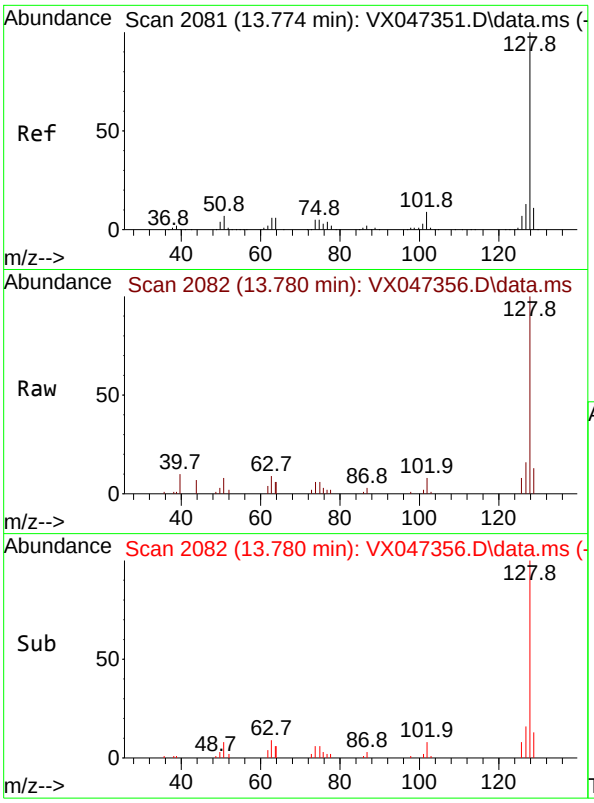


#94
Hexachlorobutadiene
Concen: 1.360 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:225 Resp: 2573

Ion	Ratio	Lower	Upper
225	100		
223	59.5	32.2	96.6
227	65.8	31.6	95.0

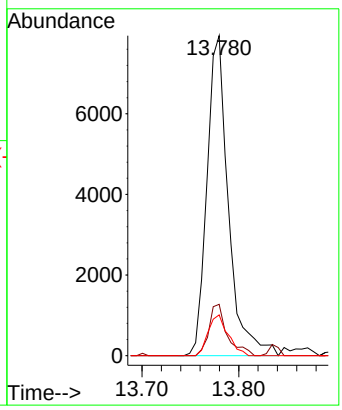




#95
Naphthalene
Concen: 0.805 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:128 Resp: 1223

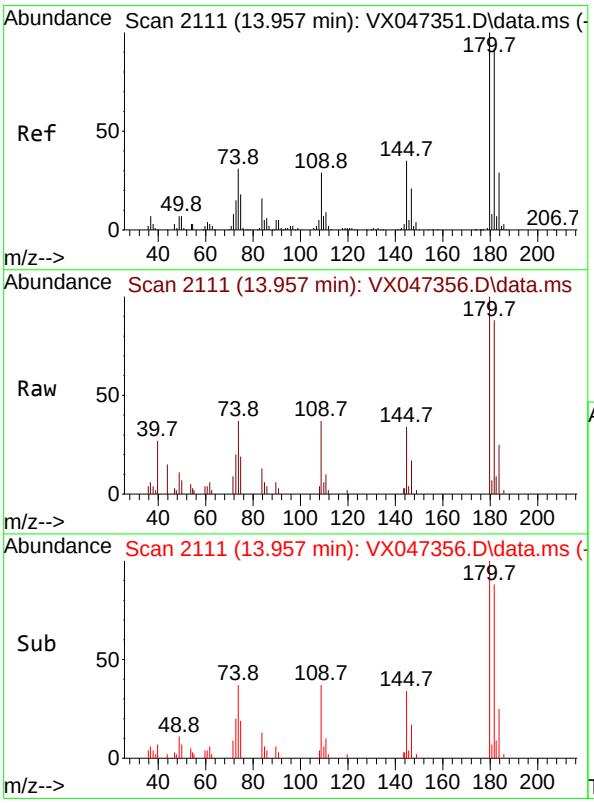
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.1	15.1
129	11.8	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

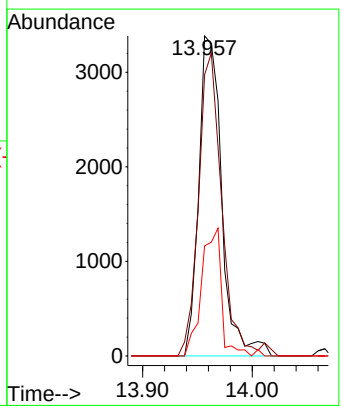
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.982 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:180 Resp: 4918

Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.0	144.2
145	34.9	17.4	52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Manual Integrations APPROVED
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	250887	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	427543	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	379004	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	185789	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	192241	54.750	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.500%			
35) Dibromofluoromethane	5.391	113	153967	55.488	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.980%			
50) Toluene-d8	8.647	98	540007	54.448	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 108.900%			
62) 4-Bromofluorobenzene	11.079	95	200280	54.723	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 109.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	166246	51.981	ug/l	99
3) Chloromethane	1.313	50	143779	49.973	ug/l	96
4) Vinyl Chloride	1.392	62	183527	50.822	ug/l	97
5) Bromomethane	1.630	94	81779	56.066	ug/l	98
6) Chloroethane	1.703	64	109193	49.421	ug/l	99
7) Trichlorofluoromethane	1.904	101	266531	49.898	ug/l	99
8) Diethyl Ether	2.148	74	94290	50.132	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.343	101	155403	50.154	ug/l	99
10) Methyl Iodide	2.465	142	238348	44.887	ug/l	99
11) Tert butyl alcohol	2.959	59	70101	229.494	ug/l	97
12) 1,1-Dichloroethene	2.337	96	158941	50.316	ug/l	99
13) Acrolein	2.245	56	133586	207.171	ug/l	99
14) Allyl chloride	2.678	41	271599	49.503	ug/l	100
15) Acrylonitrile	3.075	53	369146	250.094	ug/l	99
16) Acetone	2.386	43	324930	246.195	ug/l	96
17) Carbon Disulfide	2.526	76	457873	48.034	ug/l	99
18) Methyl Acetate	2.715	43	163394	47.774	ug/l	97
19) Methyl tert-butyl Ether	3.123	73	481187	50.072	ug/l	98
20) Methylene Chloride	2.800	84	173780	49.724	ug/l	99
21) trans-1,2-Dichloroethene	3.105	96	165465	49.352	ug/l	97
22) Diisopropyl ether	3.769	45	556979	51.358	ug/l	99
23) Vinyl Acetate	3.727	43	2264555	254.755	ug/l	99
24) 1,1-Dichloroethane	3.617	63	303962	49.586	ug/l	98
25) 2-Butanone	4.562	43	422081	244.186	ug/l	100
26) 2,2-Dichloropropane	4.483	77	232204	50.188	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	193324	49.507	ug/l	98
28) Bromochloromethane	4.903	49	145787	57.153	ug/l	100
29) Tetrahydrofuran	5.019	42	268867	240.659	ug/l	99
30) Chloroform	5.099	83	306888	49.055	ug/l	98
31) Cyclohexane	5.477	56	265960	47.066	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	263954	49.018	ug/l	99
36) 1,1-Dichloropropene	5.702	75	208616	47.627	ug/l	99
37) Ethyl Acetate	4.721	43	214695	47.213	ug/l	99
38) Carbon Tetrachloride	5.684	117	226854	47.393	ug/l	100
39) Methylcyclohexane	7.379	83	257199	47.074	ug/l	96
40) Benzene	6.043	78	638127	48.672	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	93517	48.768	ug/l		97
42) 1,2-Dichloroethane	6.086	62	226201	48.708	ug/l		99
43) Isopropyl Acetate	6.342	43	318400	48.740	ug/l		100
44) Trichloroethene	7.129	130	161053	47.974	ug/l		98
45) 1,2-Dichloropropane	7.427	63	160155	48.760	ug/l		98
46) Dibromomethane	7.580	93	115651	48.500	ug/l		98
47) Bromodichloromethane	7.824	83	237881	48.121	ug/l		100
48) Methyl methacrylate	7.690	41	164810	48.604	ug/l		99
49) 1,4-Dioxane	7.677	88	29362m	890.740	ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	916499	243.797	ug/l		99
52) Toluene	8.720	92	394588	48.706	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	218807	50.716	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	243957	49.956	ug/l		100
55) 1,1,2-Trichloroethane	9.147	97	148831	48.385	ug/l		98
56) Ethyl methacrylate	9.116	69	227388	50.140	ug/l		100
57) 1,3-Dichloropropane	9.305	76	253108	48.290	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	480379	222.770	ug/l		98
59) 2-Hexanone	9.427	43	630542	242.481	ug/l		99
60) Dibromochloromethane	9.518	129	175911	48.122	ug/l		99
61) 1,2-Dibromoethane	9.610	107	152160	47.971	ug/l		99
64) Tetrachloroethene	9.275	164	131233	47.871	ug/l		98
65) Chlorobenzene	10.079	112	429835	47.724	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	146443	48.099	ug/l		99
67) Ethyl Benzene	10.189	91	756938	48.829	ug/l		99
68) m/p-Xylenes	10.299	106	570536	98.705	ug/l		99
69) o-Xylene	10.640	106	273804	49.223	ug/l		99
70) Styrene	10.652	104	471591	50.176	ug/l		100
71) Bromoform	10.799	173	110810	48.446	ug/l	#	99
73) Isopropylbenzene	10.957	105	718690	49.432	ug/l		100
74) N-amyl acetate	10.841	43	277245	50.217	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	205267	48.087	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	163259m	47.911	ug/l		
77) Bromobenzene	11.195	156	172064	48.465	ug/l		99
78) n-propylbenzene	11.299	91	856923	49.351	ug/l		99
79) 2-Chlorotoluene	11.360	91	506366	48.241	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	586315	49.013	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	32392	42.686	ug/l		99
82) 4-Chlorotoluene	11.451	91	592542	47.889	ug/l		99
83) tert-Butylbenzene	11.713	119	594831	49.841	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	595697	49.796	ug/l		99
85) sec-Butylbenzene	11.890	105	732328	49.507	ug/l		100
86) p-Isopropyltoluene	12.006	119	617508	49.332	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	325055	47.926	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	326132	46.752	ug/l		100
89) n-Butylbenzene	12.329	91	576963	49.556	ug/l		99
90) Hexachloroethane	12.536	117	107051	48.749	ug/l		99
91) 1,2-Dichlorobenzene	12.329	146	304391	47.283	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	38911	47.135	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	206837	47.926	ug/l		98
94) Hexachlorobutadiene	13.725	225	66005	42.967	ug/l		98
95) Naphthalene	13.774	128	604650	49.026	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	194540	47.822	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

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

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

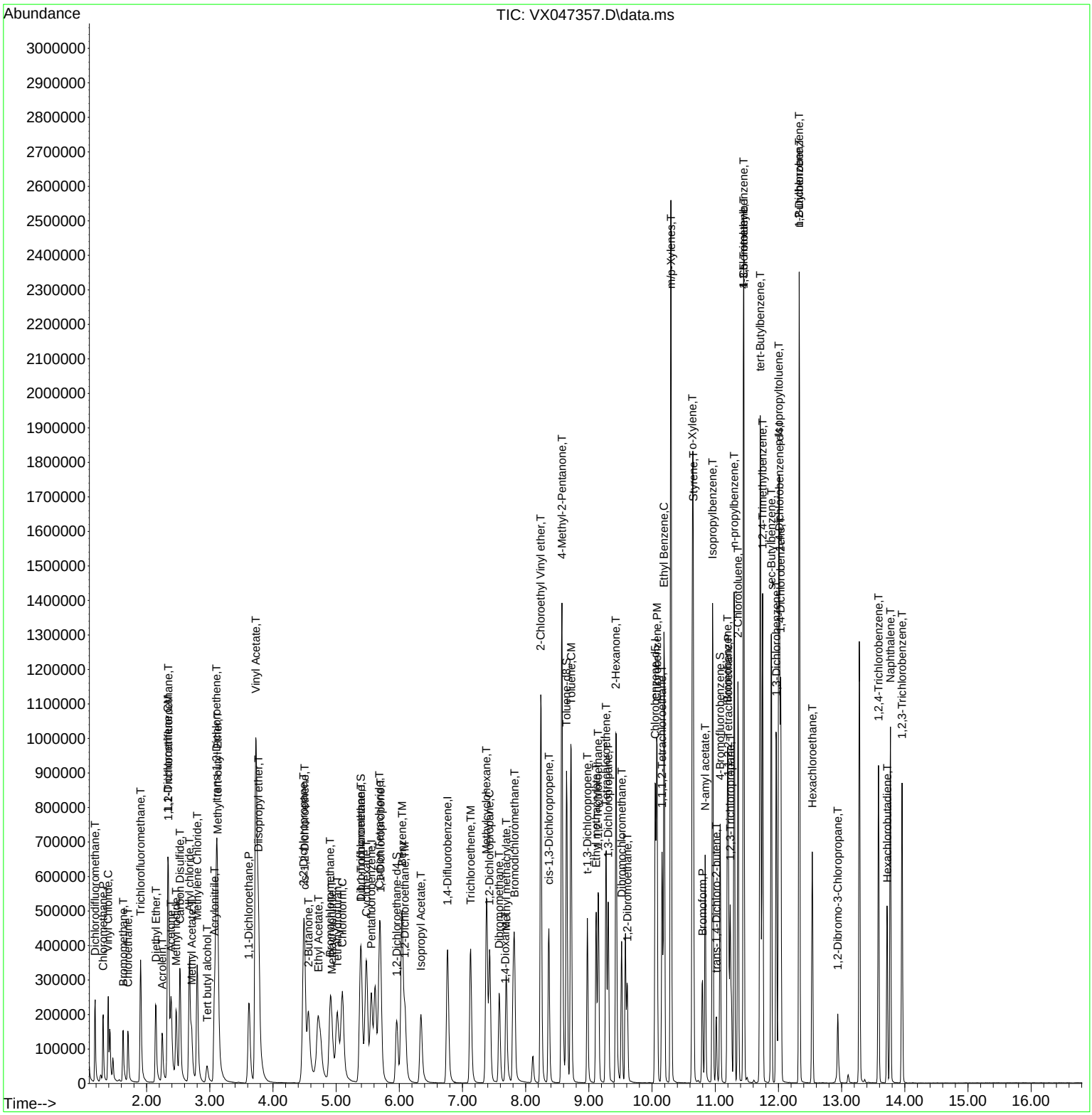
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

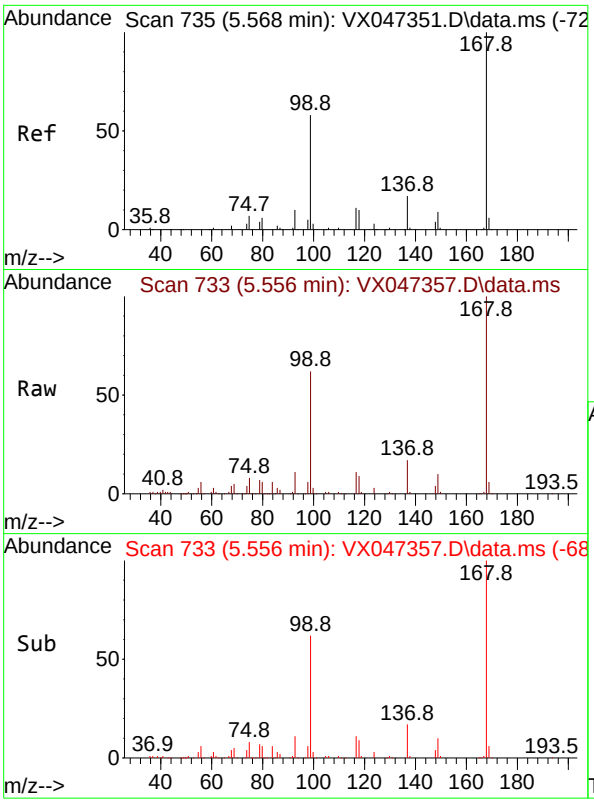
Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

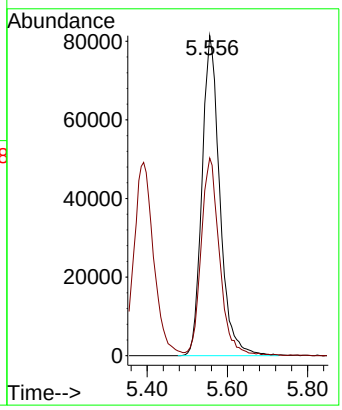




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:168 Resp: 25088

Ion	Ratio	Lower	Upper
168	100		
99	61.5	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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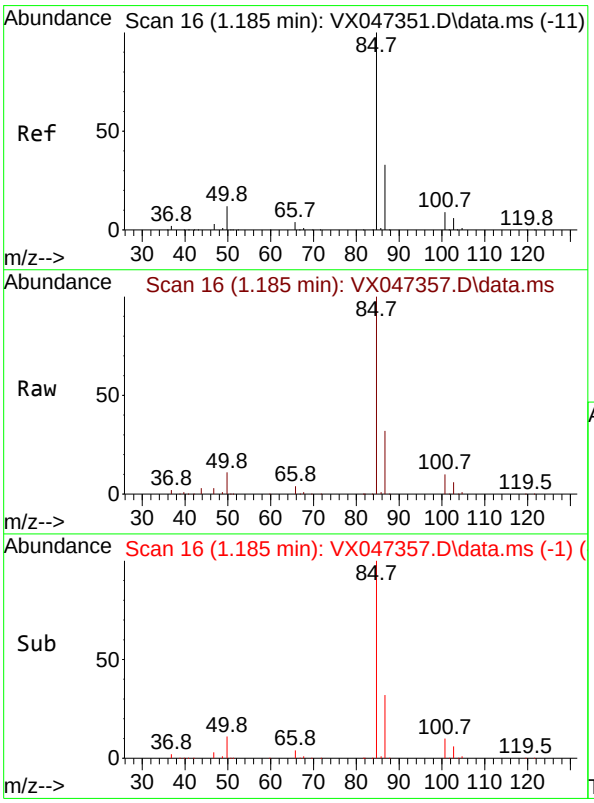
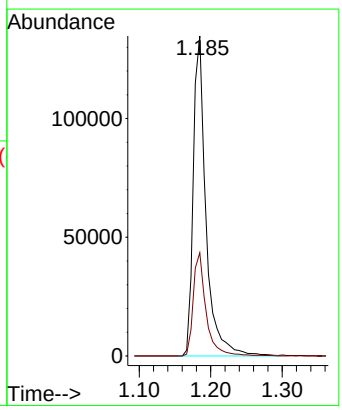
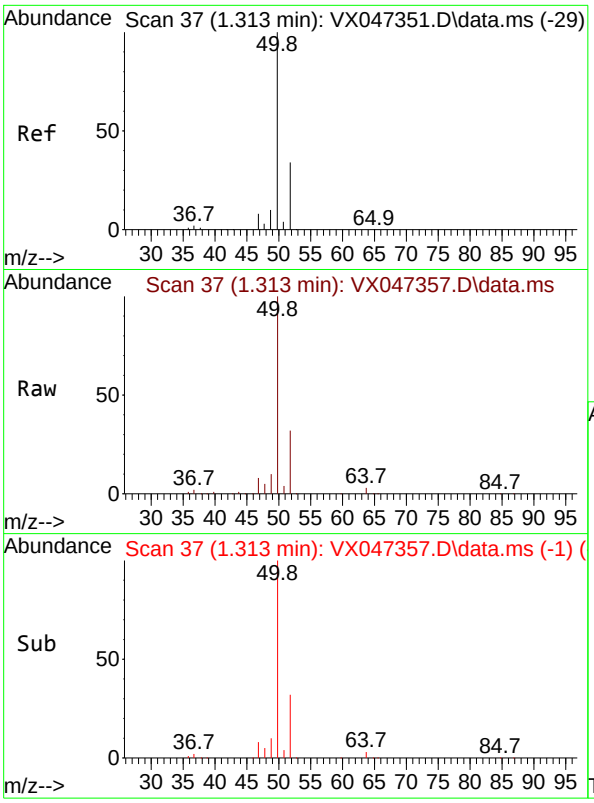


#2
Dichlorodifluoromethane
Concen: 51.981 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 85 Resp: 166246

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.4	49.1

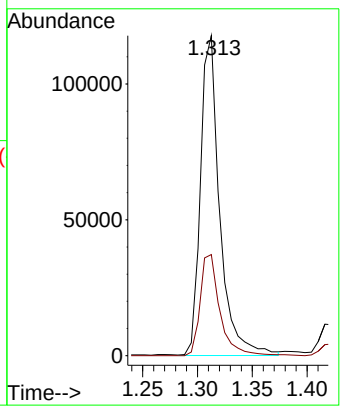




#3
Chloromethane
Concen: 49.973 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 50 Resp: 14377

Ion	Ratio	Lower	Upper
50	100		
52	31.7	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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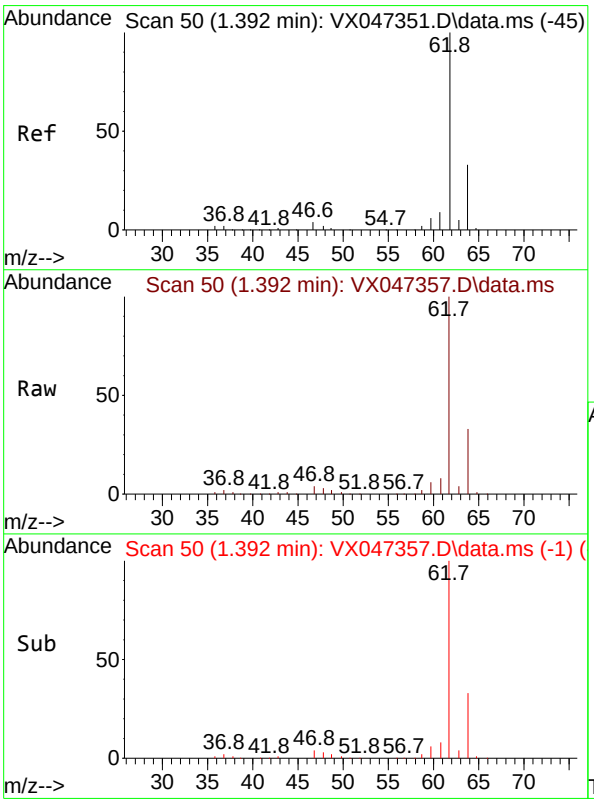
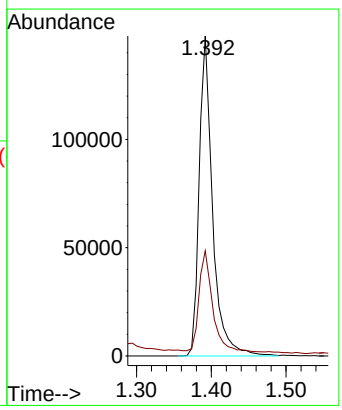
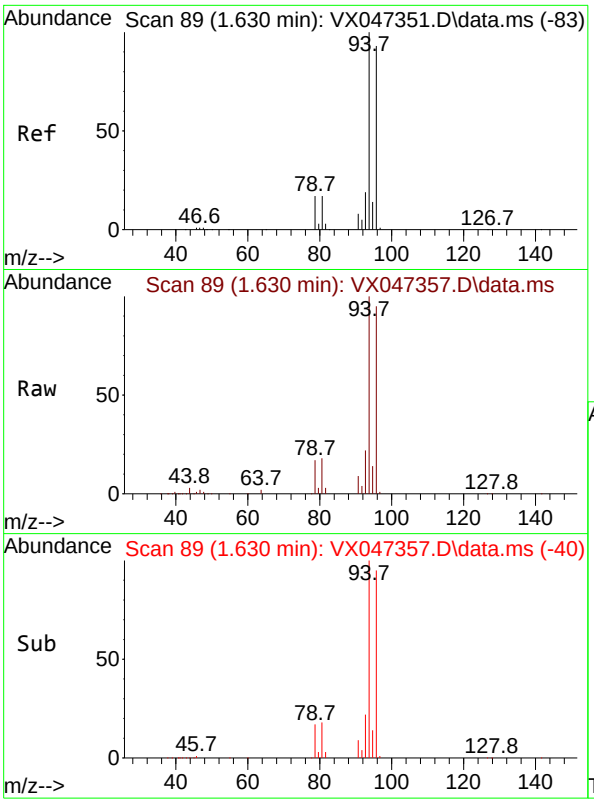


#4
Vinyl Chloride
Concen: 50.822 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 62 Resp: 183527

Ion	Ratio	Lower	Upper
62	100		
64	31.6	26.5	39.7

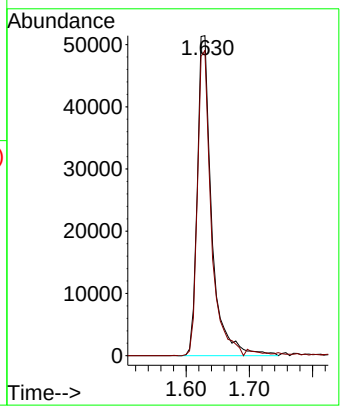




#5
Bromomethane
Concen: 56.066 ug/l
RT: 1.630 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 94 Resp: 8177

Ion	Ratio	Lower	Upper
94	100		
96	95.3	74.7	112.1



Instrument :
MSVOA_X
ClientSampleId :
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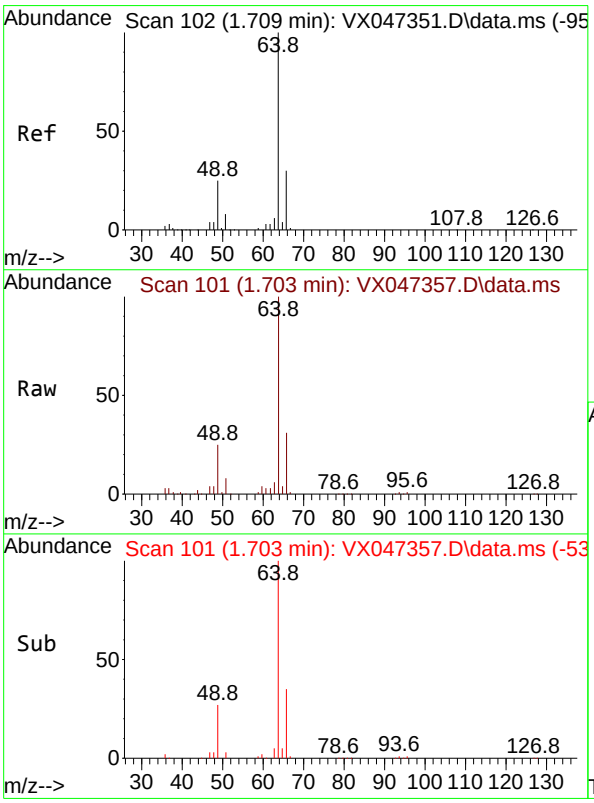
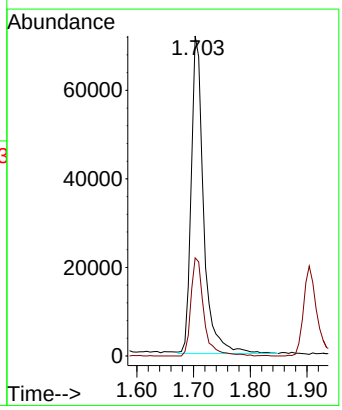
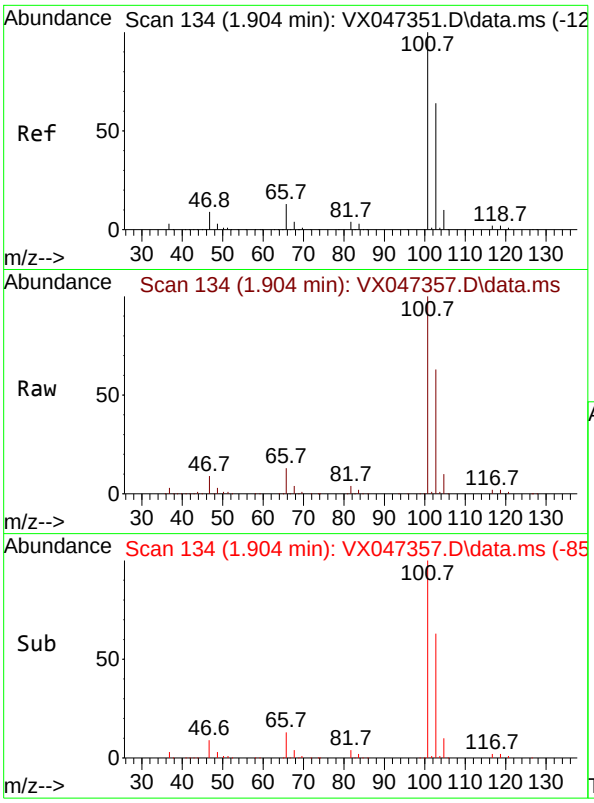


#6
Chloroethane
Concen: 49.421 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 64 Resp: 109193

Ion	Ratio	Lower	Upper
64	100		
66	30.9	24.4	36.6

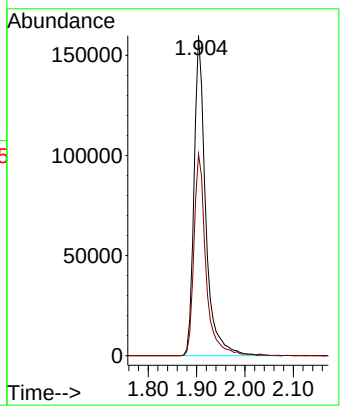




#7
Trichlorofluoromethane
Concen: 49.898 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:101 Resp: 26653

Ion	Ratio	Lower	Upper
101	100		
103	62.9	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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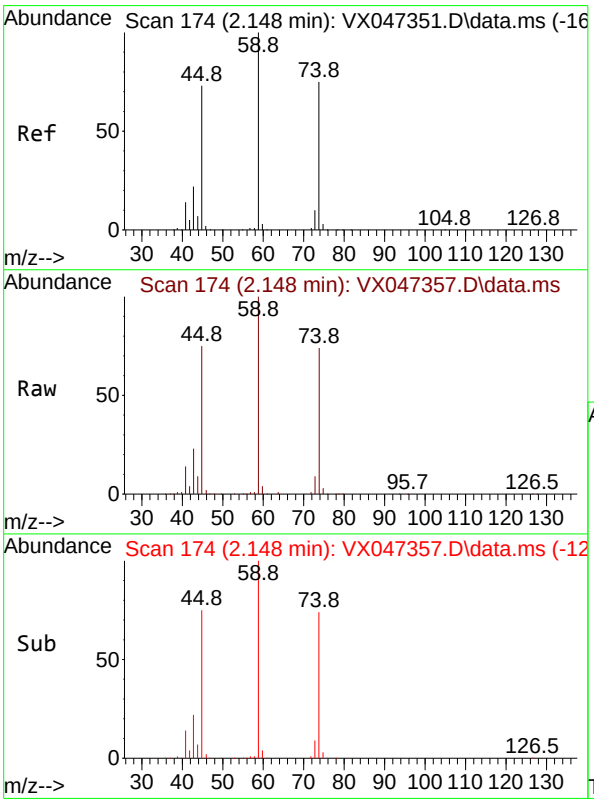
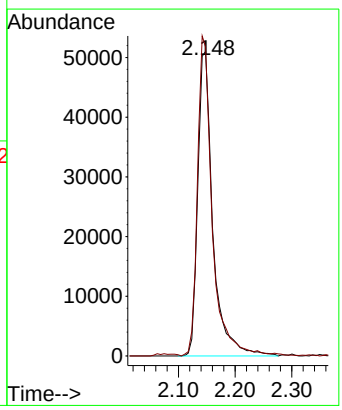
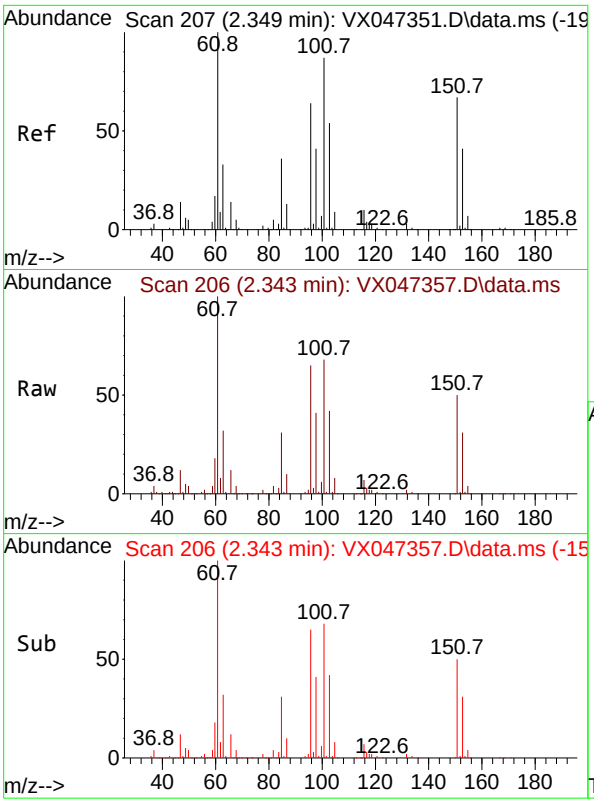


#8
Diethyl Ether
Concen: 50.132 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 74 Resp: 94290

Ion	Ratio	Lower	Upper
74	100		
45	102.7	51.3	154.0

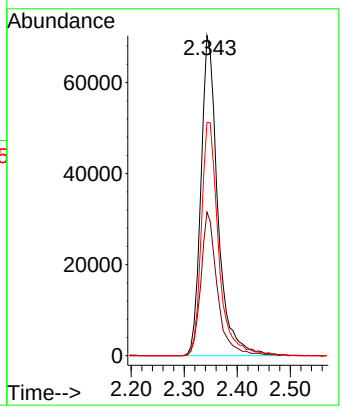




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.154 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:101 Resp: 15540

Ion	Ratio	Lower	Upper
101	100		
85	44.0	34.3	51.5
151	74.8	59.2	88.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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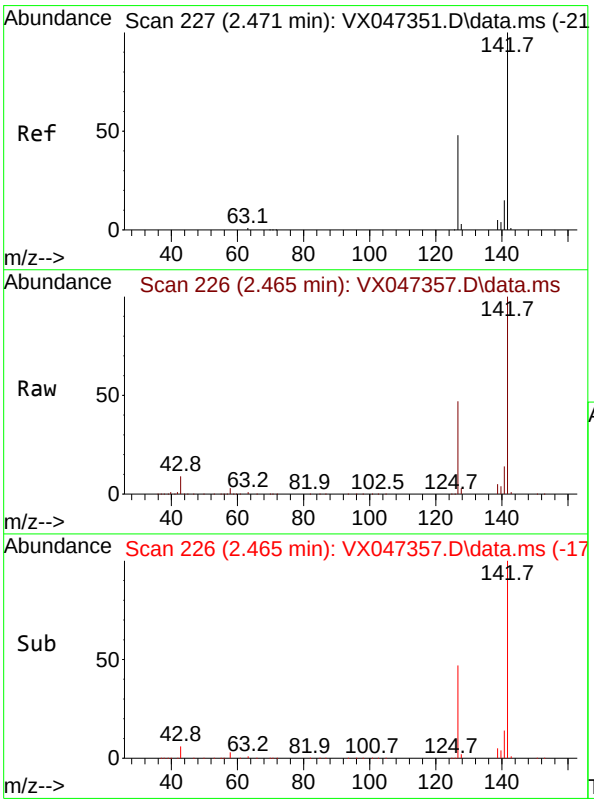
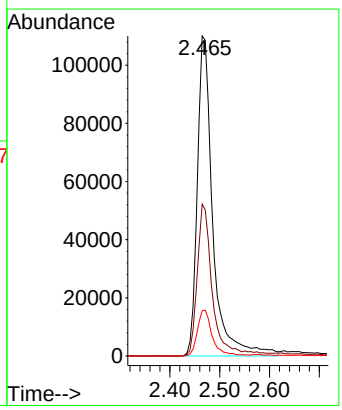
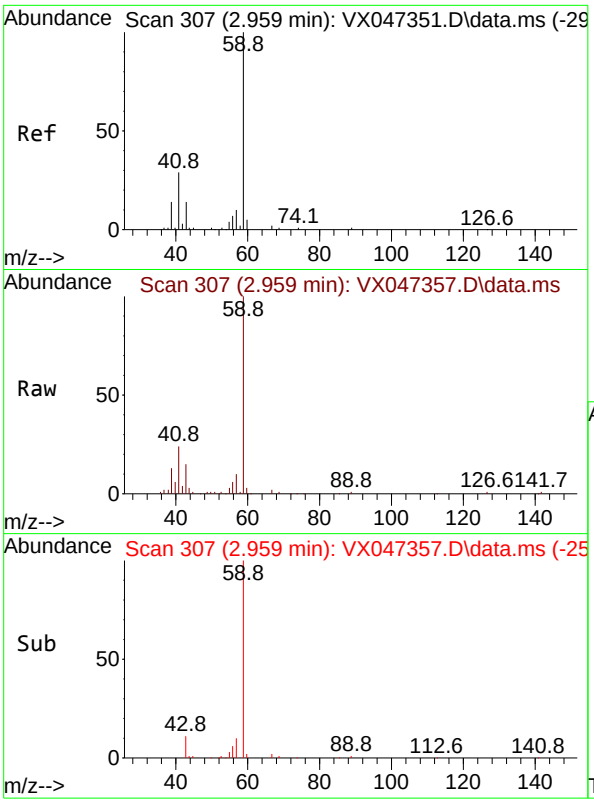


#10
Methyl Iodide
Concen: 44.887 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:142 Resp: 238348

Ion	Ratio	Lower	Upper
142	100		
127	46.3	36.1	54.1
141	13.8	11.1	16.7

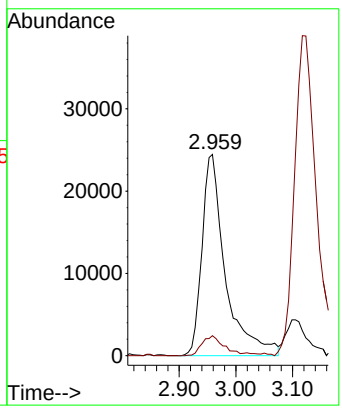




#11
Tert butyl alcohol
Concen: 229.494 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 59 Resp: 7010

Ion	Ratio	Lower	Upper
59	100		
57	9.3	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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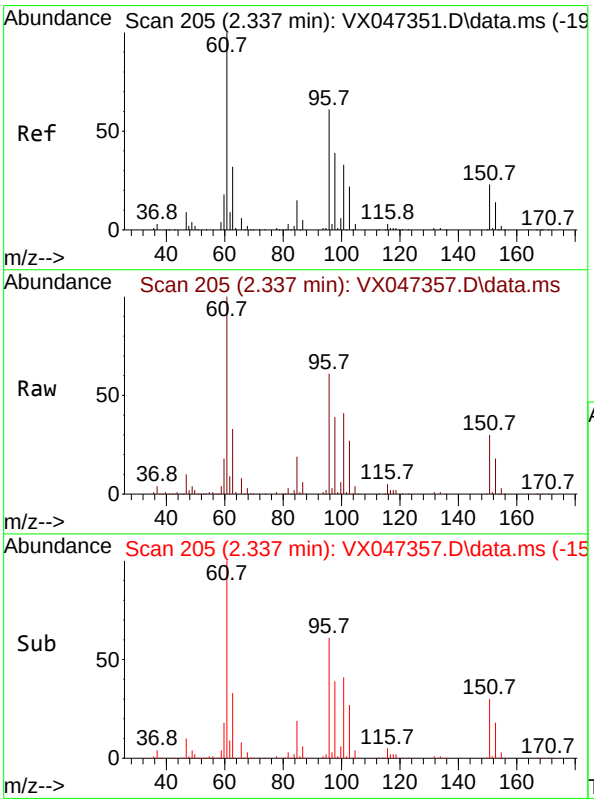
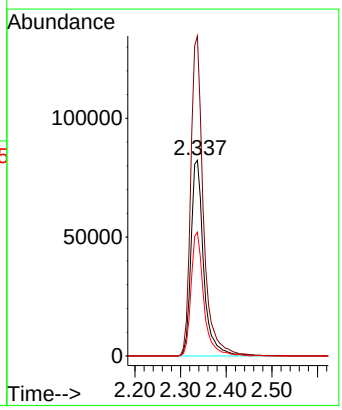
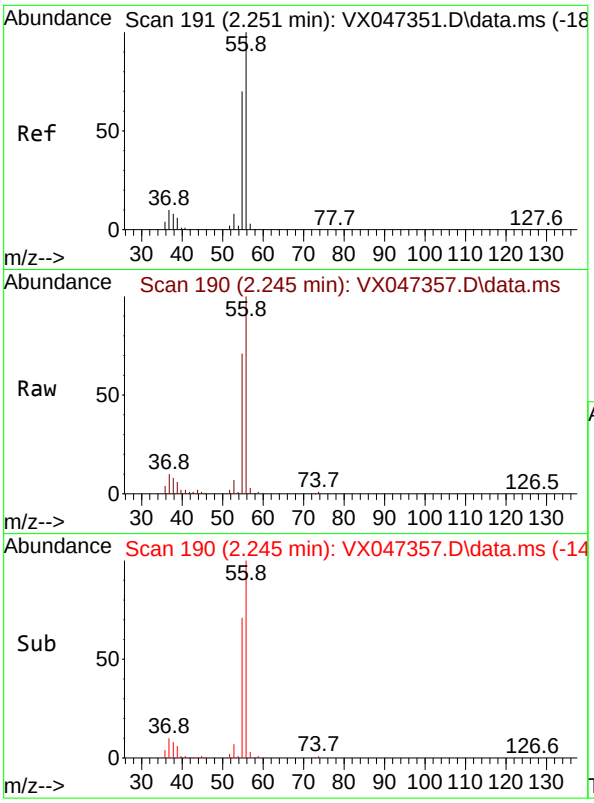


#12
1,1-Dichloroethene
Concen: 50.316 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 96 Resp: 158941

Ion	Ratio	Lower	Upper
96	100		
61	163.6	132.2	198.2
98	63.3	51.2	76.8

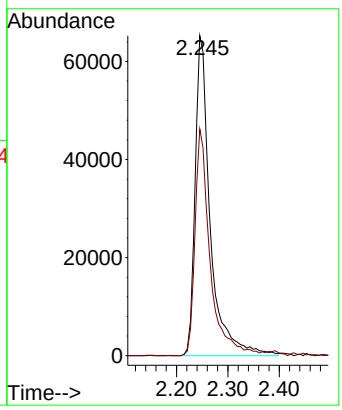




#13
Acrolein
Concen: 207.171 ug/l
RT: 2.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 56 Resp: 13358

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.5	83.3



Instrument :
MSVOA_X
ClientSampleId :
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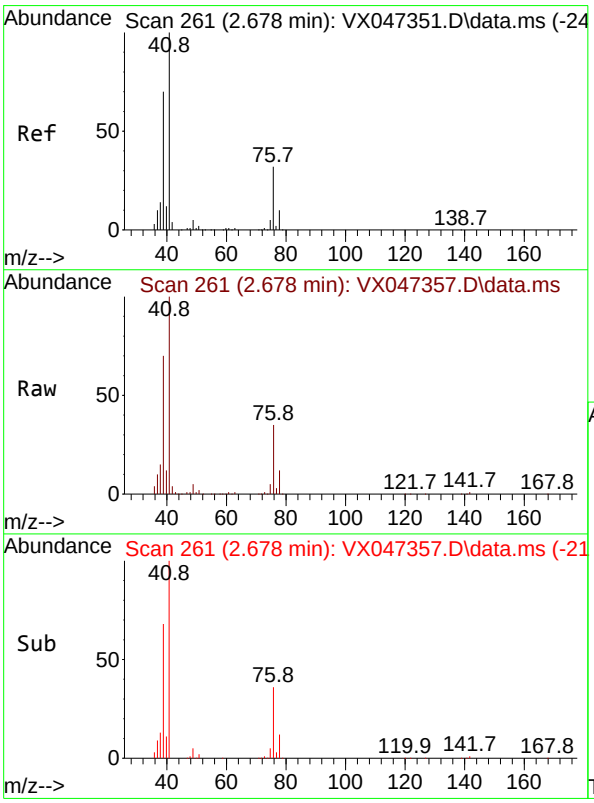
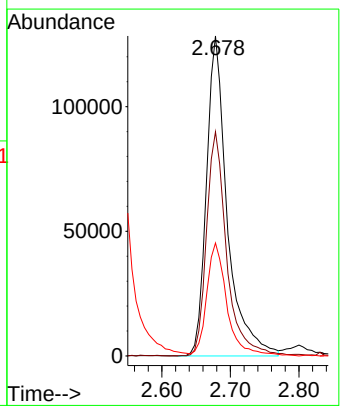
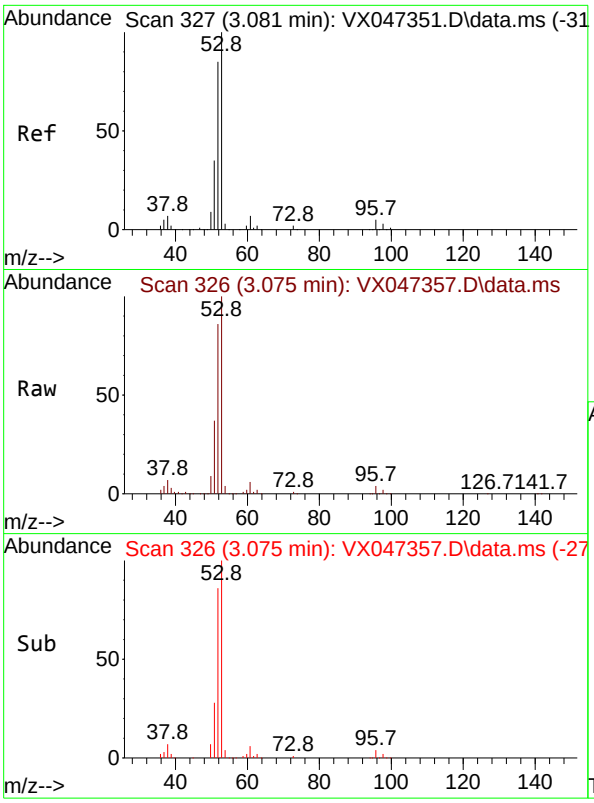


#14
Allyl chloride
Concen: 49.503 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 41 Resp: 271599

Ion	Ratio	Lower	Upper
41	100		
39	67.9	54.6	81.8
76	34.3	27.6	41.4

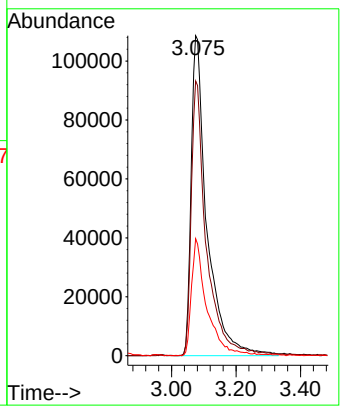




#15
Acrylonitrile
Concen: 250.094 ug/l
RT: 3.075 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 53 Resp: 36914

Ion	Ratio	Lower	Upper
53	100		
52	81.4	65.8	98.6
51	36.0	28.2	42.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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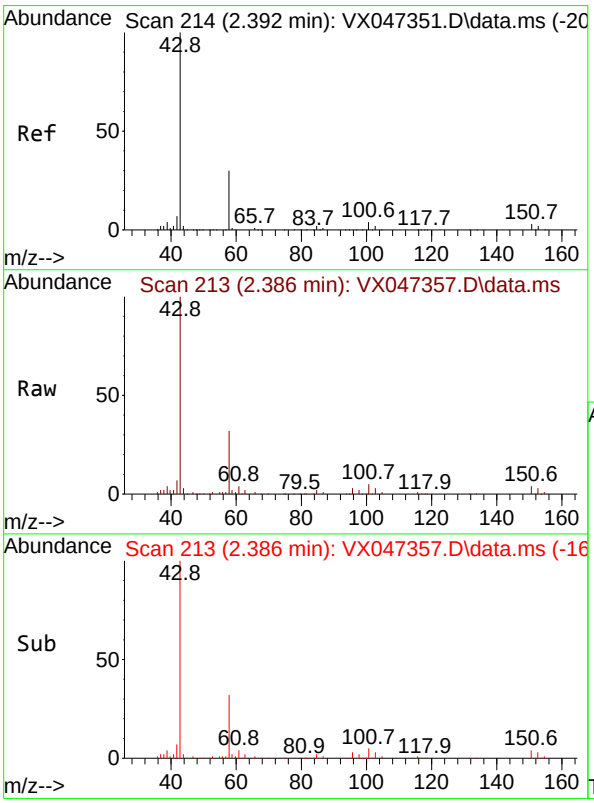
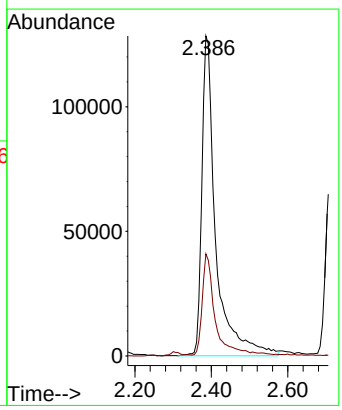
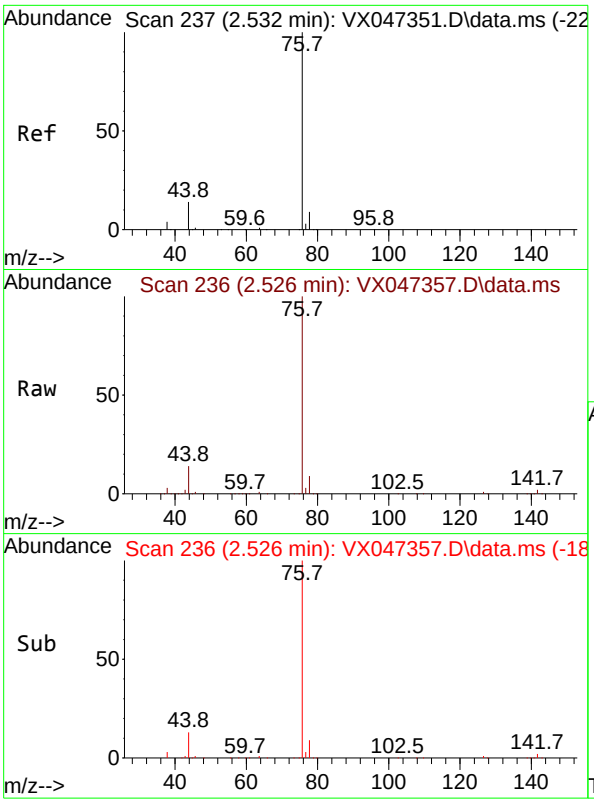


#16
Acetone
Concen: 246.195 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 43 Resp: 324930

Ion	Ratio	Lower	Upper
43	100		
58	33.2	24.8	37.2

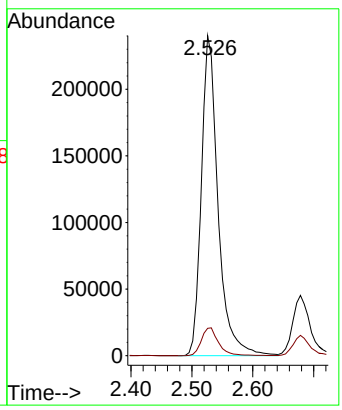




#17
Carbon Disulfide
Concen: 48.034 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 76 Resp: 45787

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.2	10.8



Instrument :
MSVOA_X
ClientSampleId :
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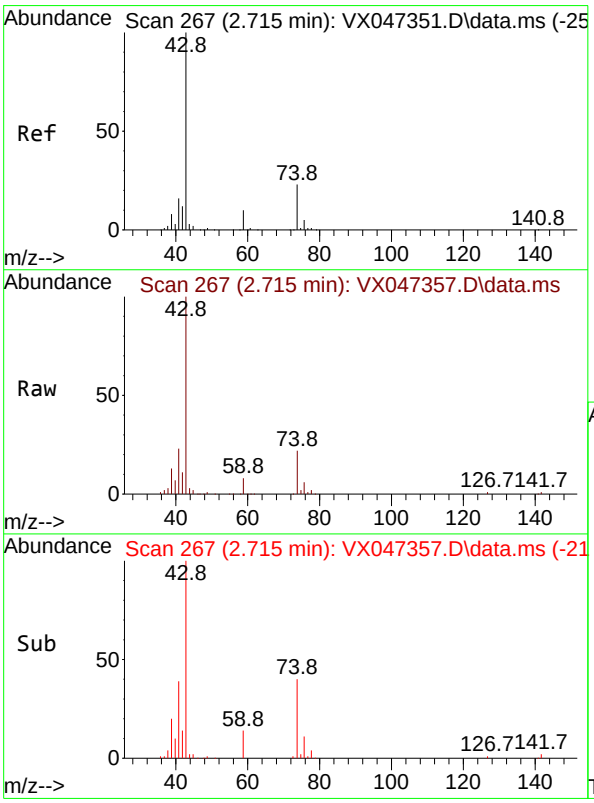
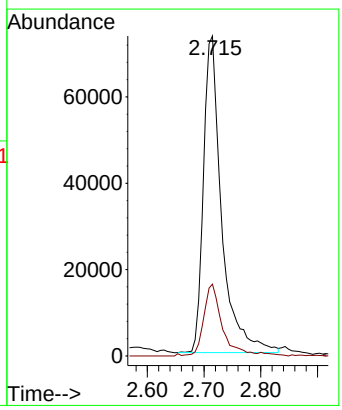
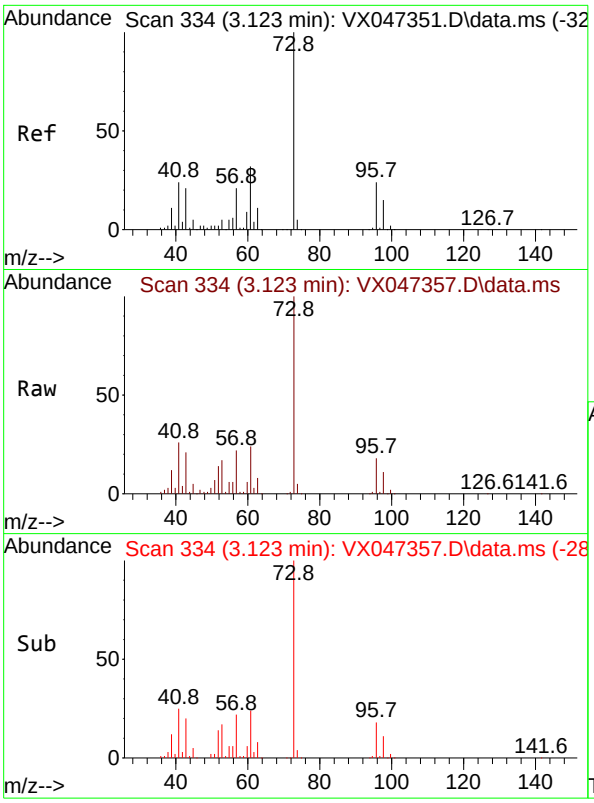


#18
Methyl Acetate
Concen: 47.774 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 43 Resp: 163394

Ion	Ratio	Lower	Upper
43	100		
74	21.6	18.4	27.6

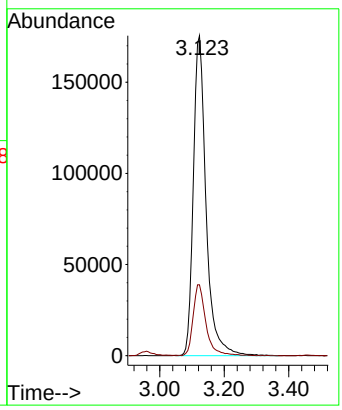




#19
Methyl tert-butyl Ether
Concen: 50.072 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 73 Resp: 48118

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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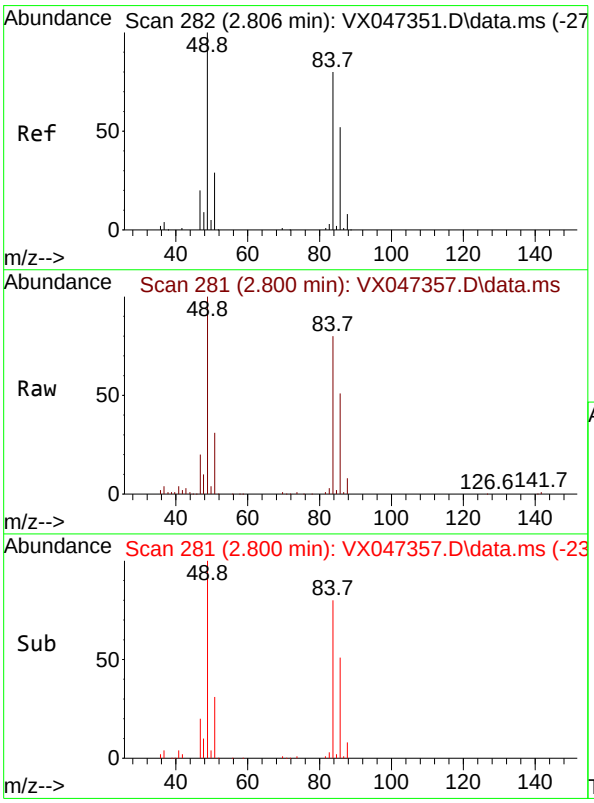
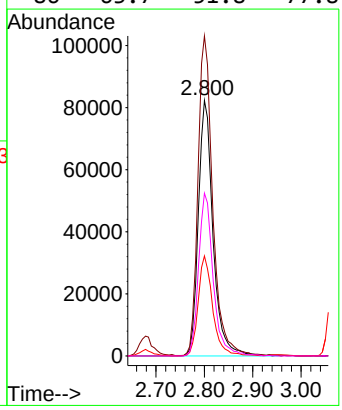
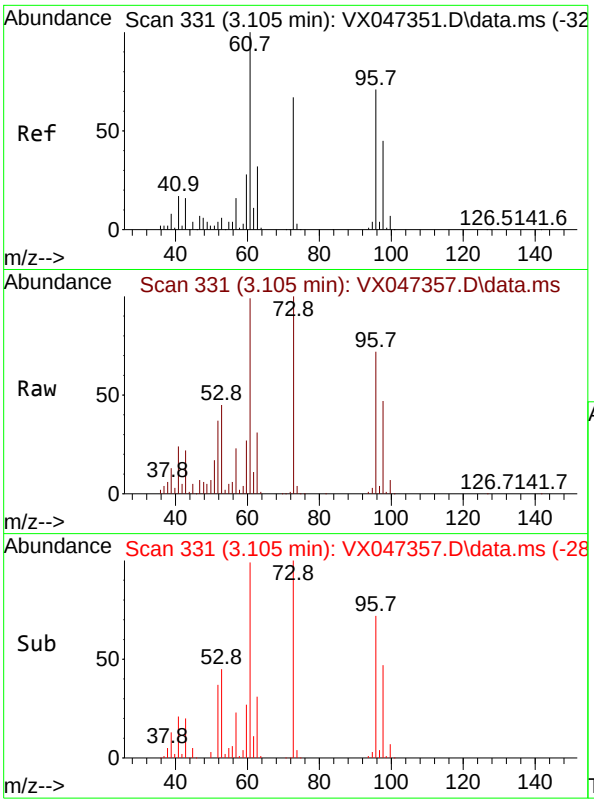


#20
Methylene Chloride
Concen: 49.724 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 84 Resp: 173780

Ion	Ratio	Lower	Upper
84	100		
49	125.0	100.1	150.1
51	39.1	29.5	44.3
86	63.7	51.8	77.8

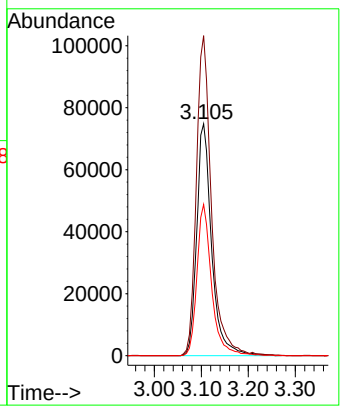




#21
trans-1,2-Dichloroethene
Concen: 49.352 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 96 Resp: 16546

Ion	Ratio	Lower	Upper
96	100		
61	138.0	112.6	169.0
98	67.2	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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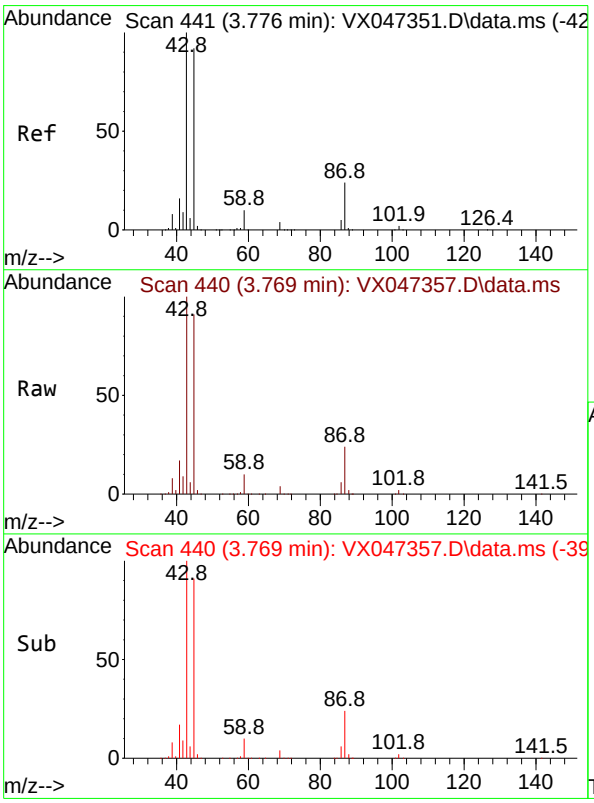
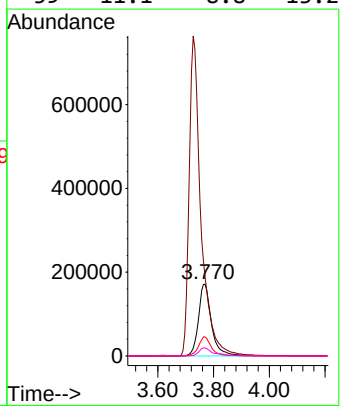
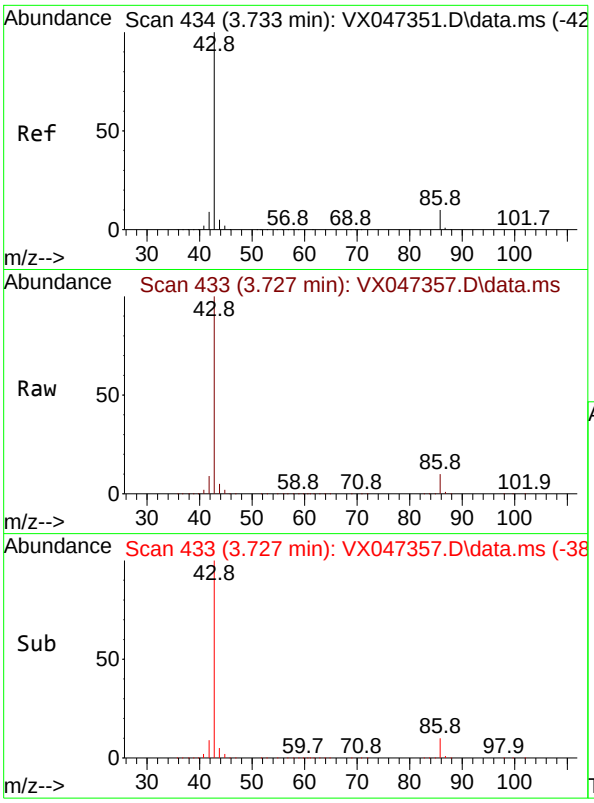


#22
Diisopropyl ether
Concen: 51.358 ug/l
RT: 3.769 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 45 Resp: 556979

Ion	Ratio	Lower	Upper
45	100		
43	109.4	86.8	130.2
87	26.4	20.4	30.6
59	11.1	8.8	13.2

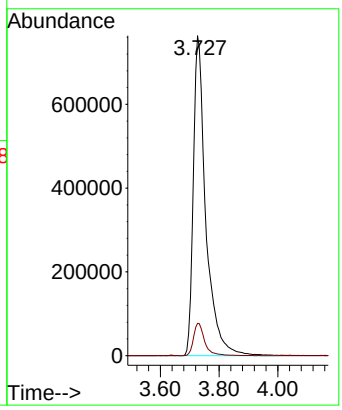




#23
Vinyl Acetate
Concen: 254.755 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 43 Resp: 226455

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.9	11.9



Instrument :
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ClientSampleId :
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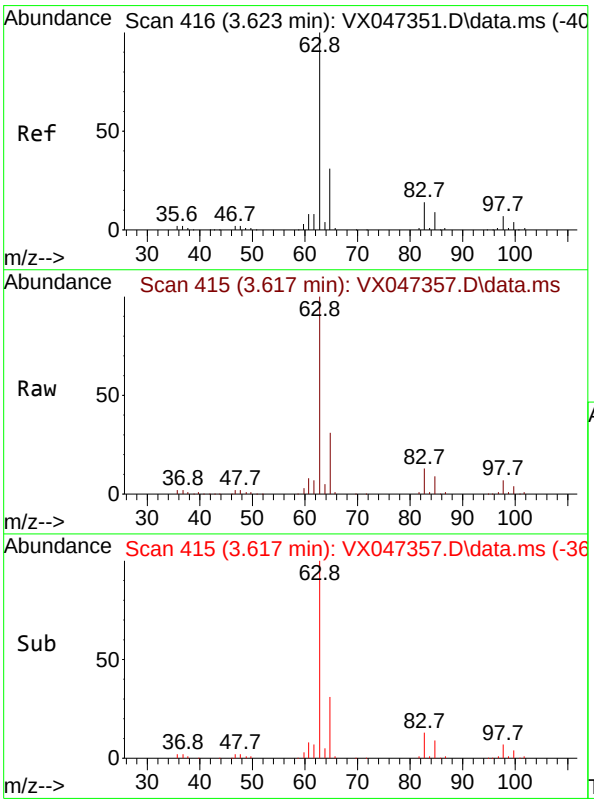
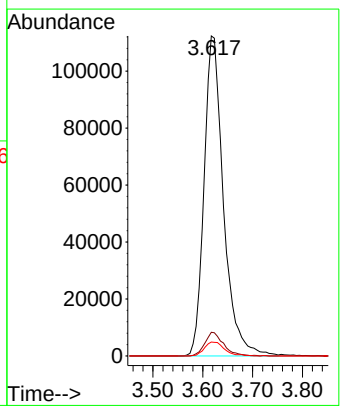
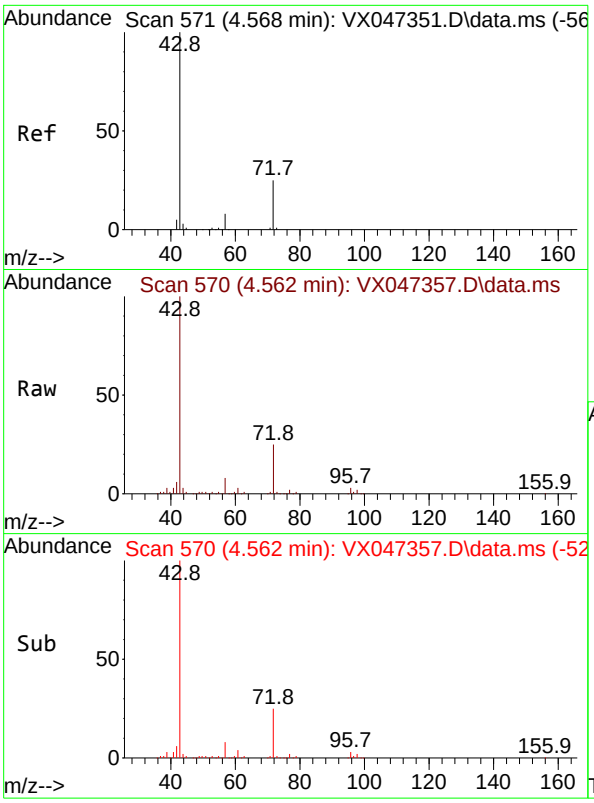


#24
1,1-Dichloroethane
Concen: 49.586 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 63 Resp: 303962

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.3	9.9
100	4.3	2.1	6.3

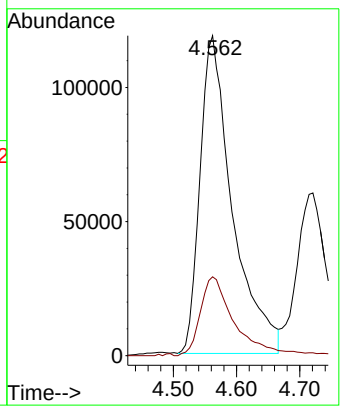




#25
2-Butanone
Concen: 244.186 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 43 Resp: 42208

Ion	Ratio	Lower	Upper
43	100		
72	24.6	19.8	29.8



Instrument :
MSVOA_X
ClientSampleId :
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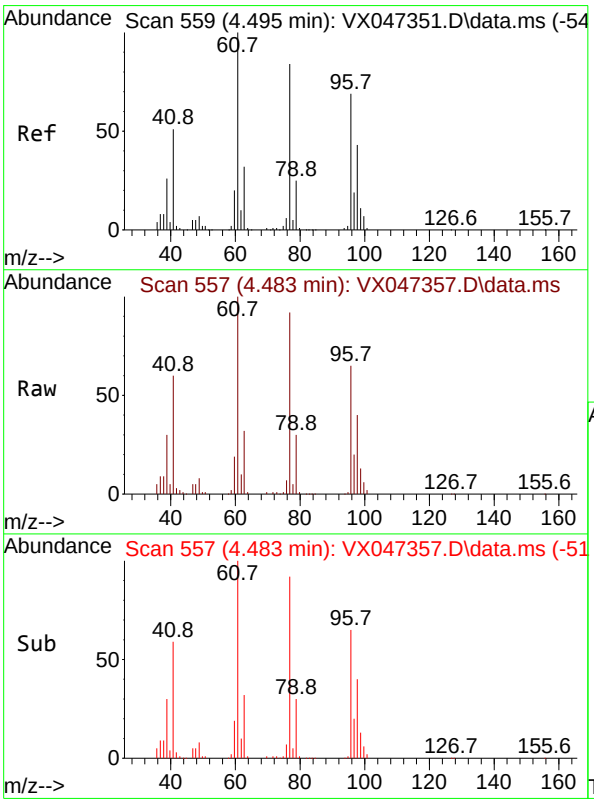
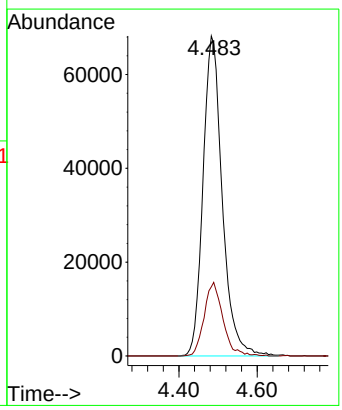
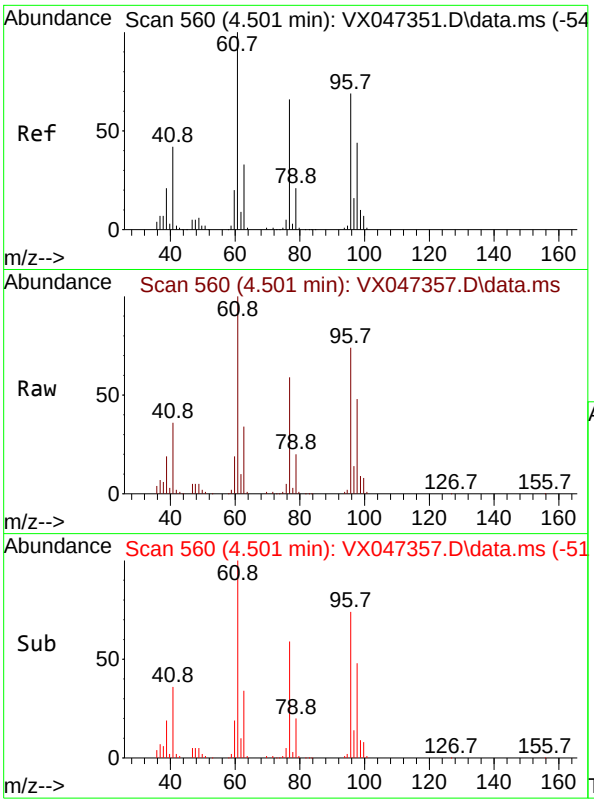


#26
2,2-Dichloropropane
Concen: 50.188 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.012 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 77 Resp: 232204

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.4	34.1

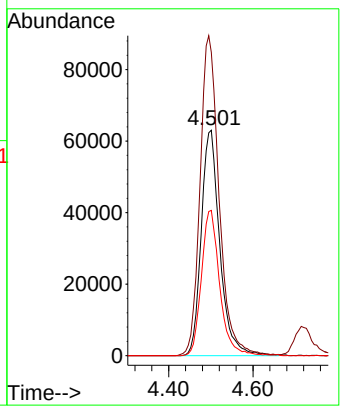




#27
cis-1,2-Dichloroethene
Concen: 49.507 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 96 Resp: 19332

Ion	Ratio	Lower	Upper
96	100		
61	145.7	0.0	296.6
98	63.5	0.0	130.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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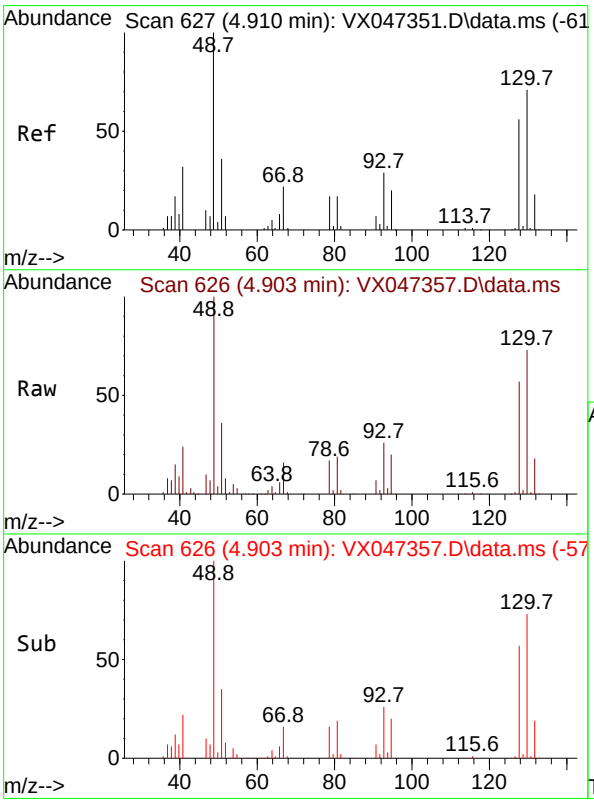
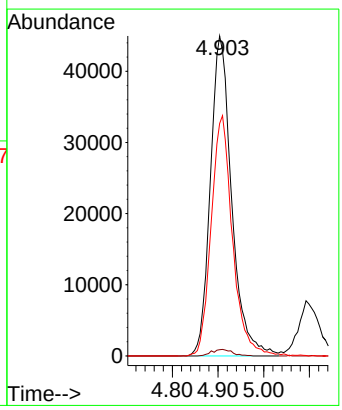
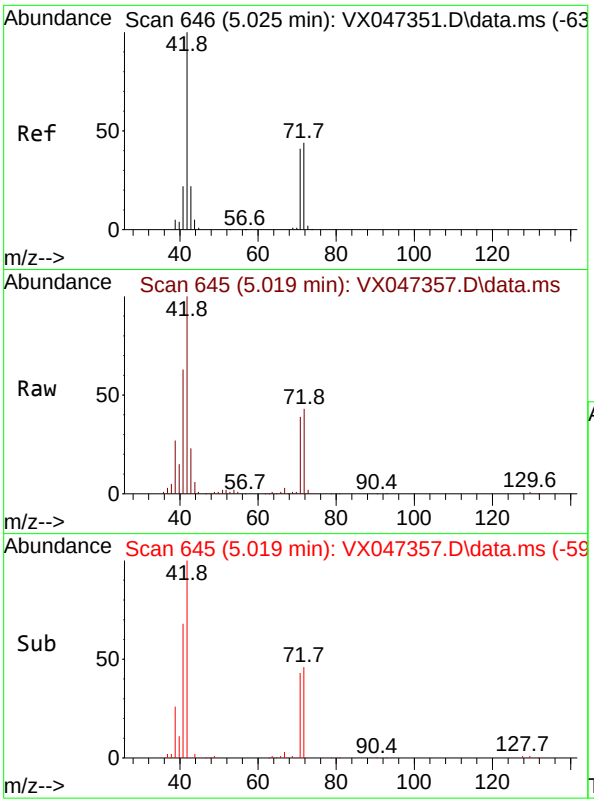


#28
Bromochloromethane
Concen: 57.153 ug/l
RT: 4.903 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 49 Resp: 145787

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	75.0	59.8	89.6

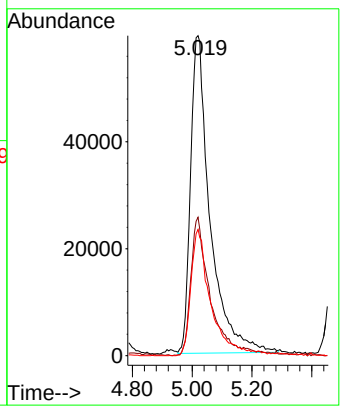




#29
Tetrahydrofuran
Concen: 240.659 ug/l
RT: 5.019 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 42 Resp: 26886

Ion	Ratio	Lower	Upper
42	100		
72	43.7	34.6	51.8
71	39.8	32.6	49.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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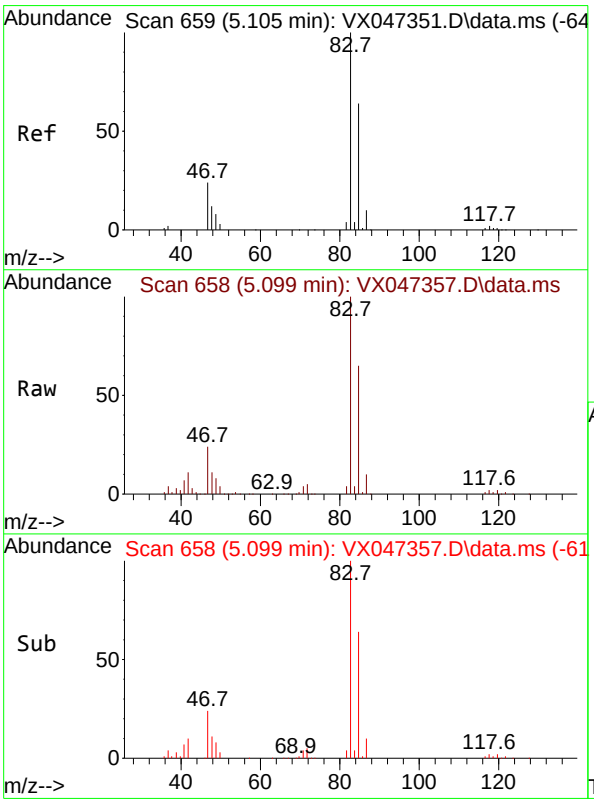
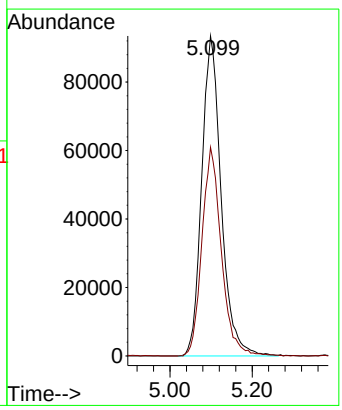
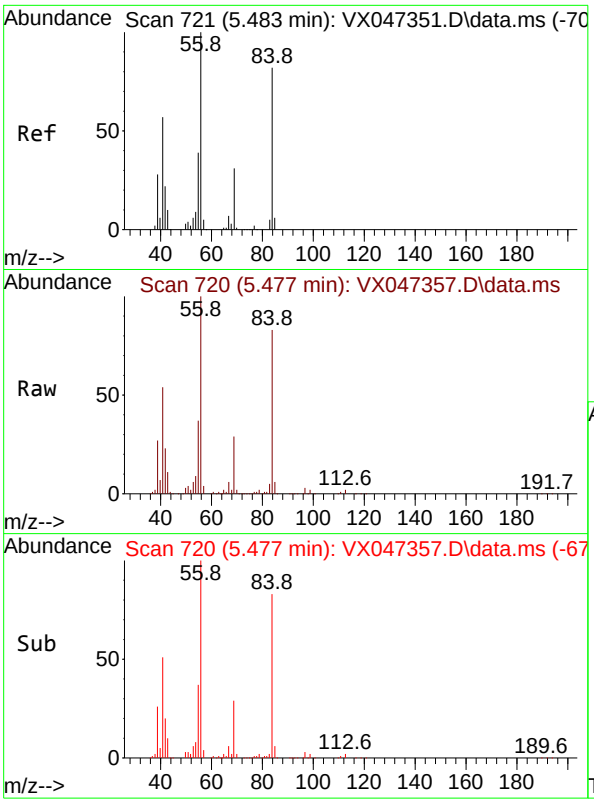


#30
Chloroform
Concen: 49.055 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 83 Resp: 306888

Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.2	76.8

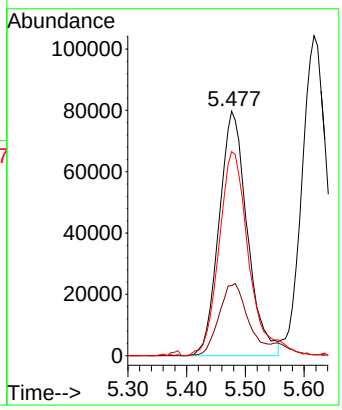




#31
Cyclohexane
Concen: 47.066 ug/l
RT: 5.477 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 56 Resp: 26596

Ion	Ratio	Lower	Upper
56	100		
69	28.3	24.3	36.5
84	81.4	65.3	97.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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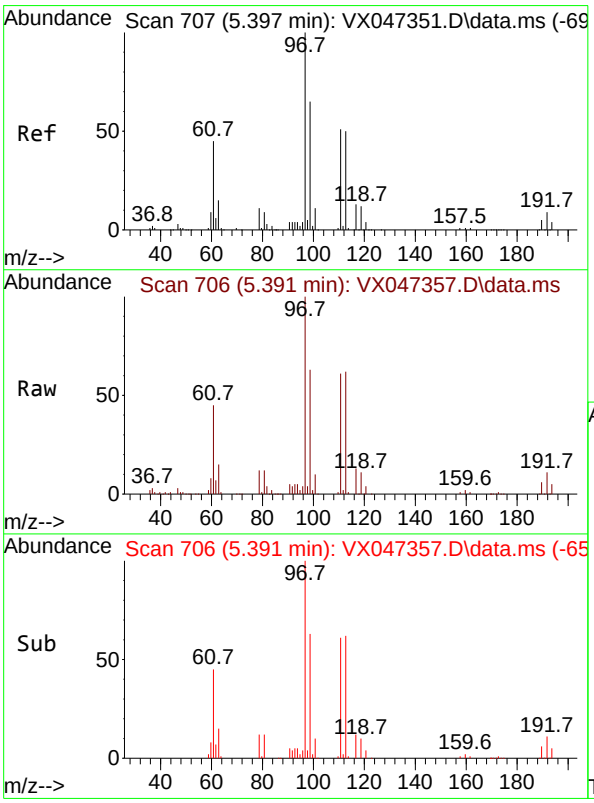
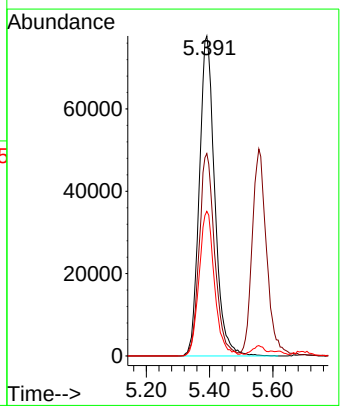
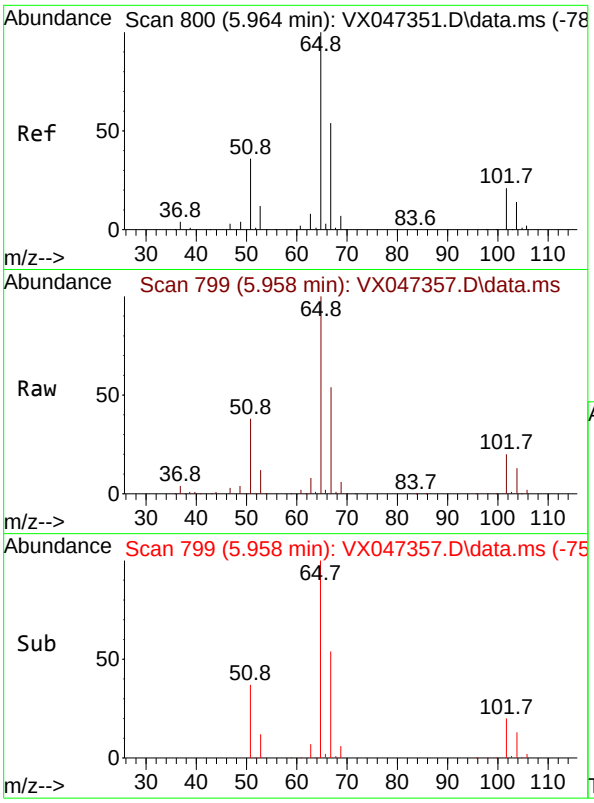


#32
1,1,1-Trichloroethane
Concen: 49.018 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 97 Resp: 263954

Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.4	77.0
61	45.4	35.7	53.5

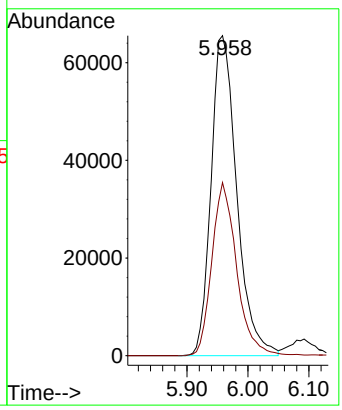




#33
1,2-Dichloroethane-d4
Concen: 54.750 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 65 Resp: 19224

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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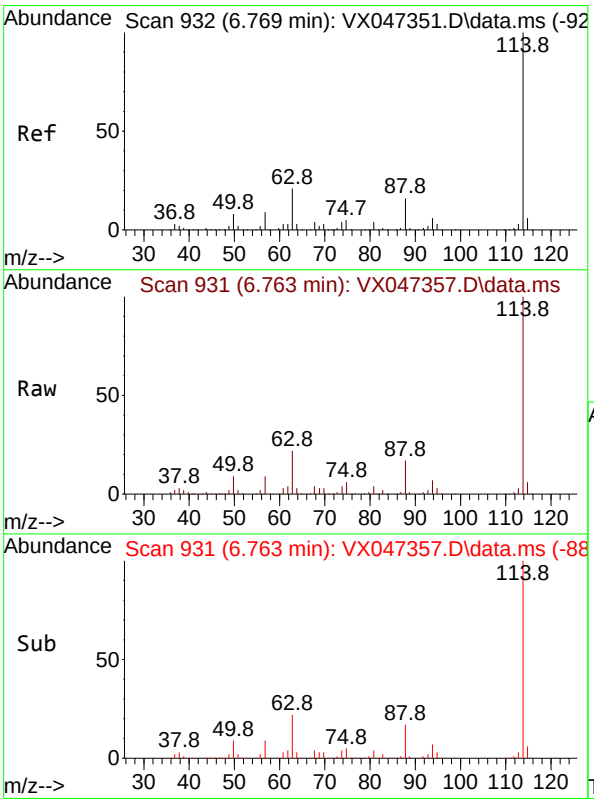
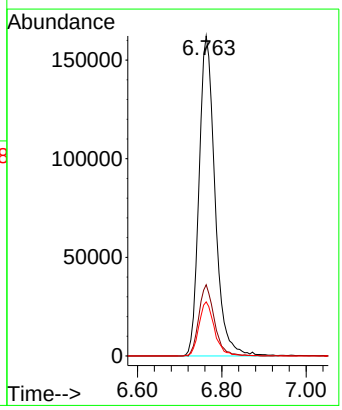
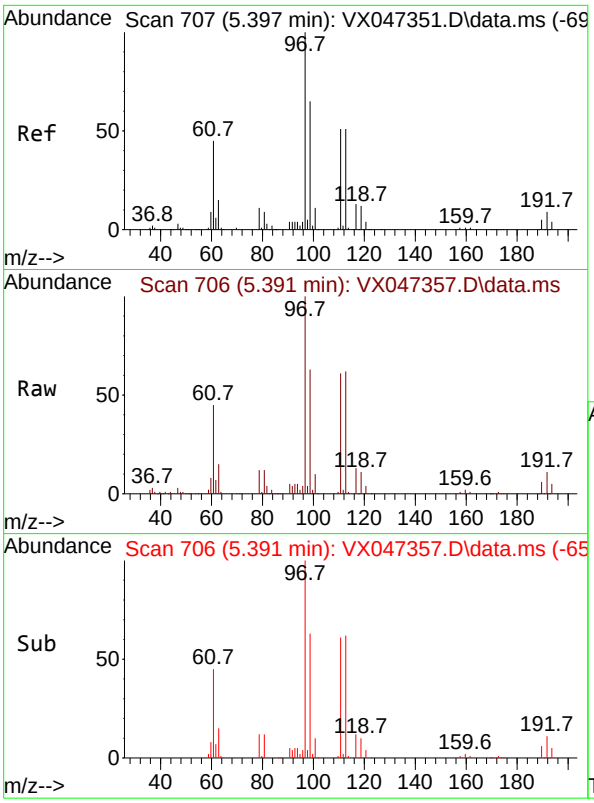


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:114 Resp: 427543

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	42.4
88	16.9	0.0	33.0

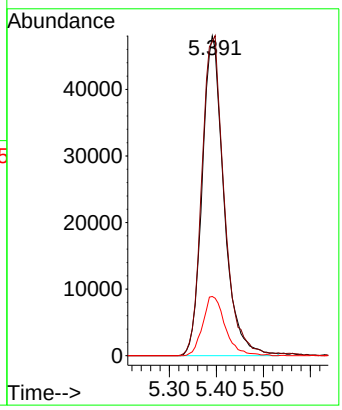




#35
Dibromofluoromethane
Concen: 55.488 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:113 Resp: 15396

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.4	122.2
192	19.2	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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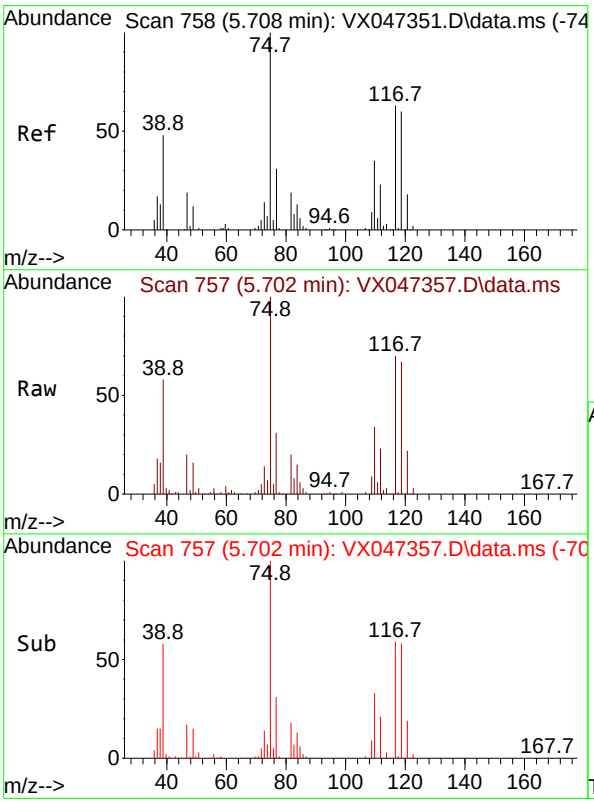
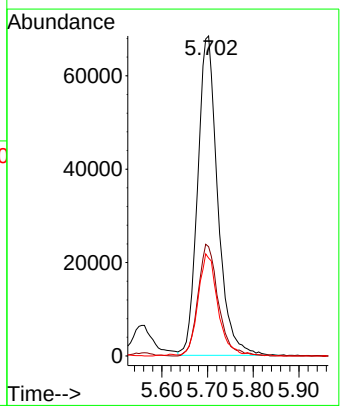
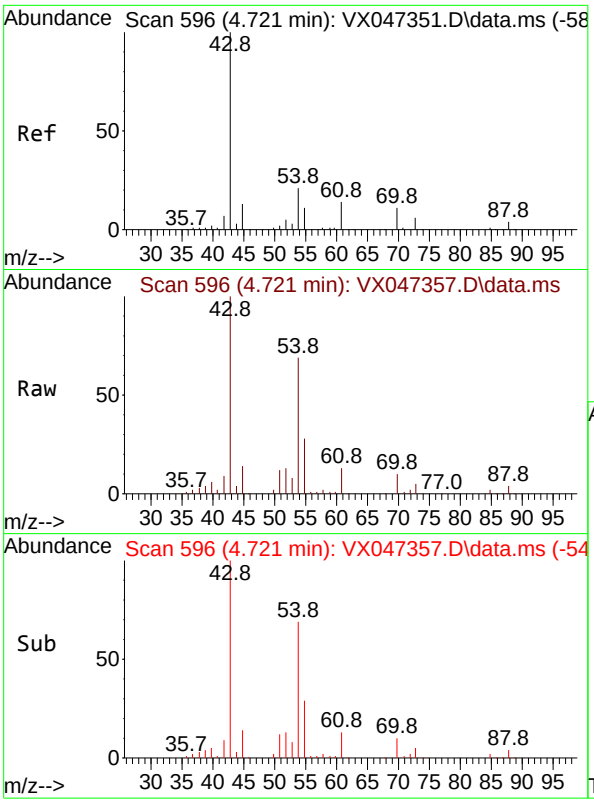


#36
1,1-Dichloropropene
Concen: 47.627 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 75 Resp: 208616

Ion	Ratio	Lower	Upper
75	100		
110	35.4	17.4	52.2
77	31.5	24.4	36.6





#37
Ethyl Acetate
Concen: 47.213 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 43 Resp: 21469

Ion	Ratio	Lower	Upper
43	100		
61	11.4	9.4	14.2
70	9.0	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Manual Integrations
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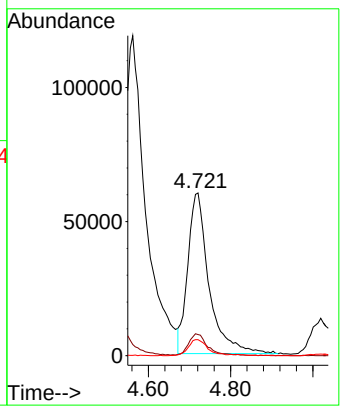
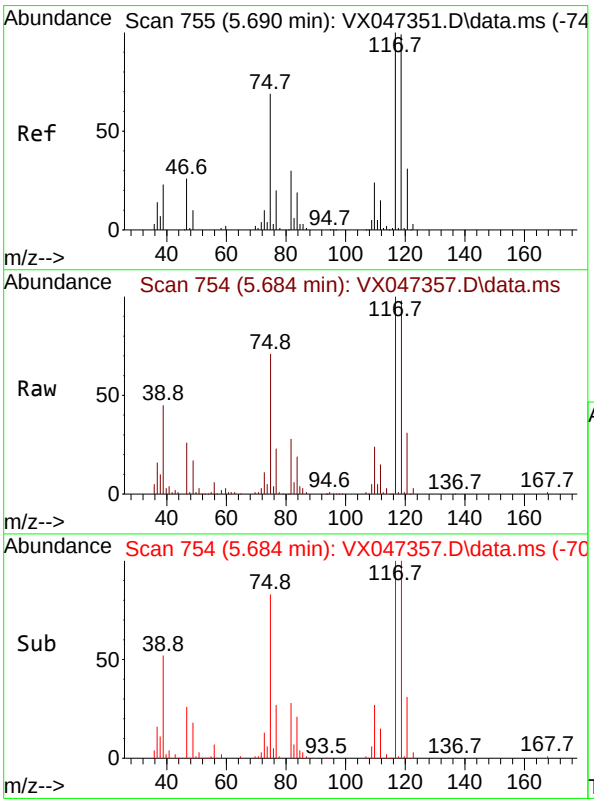
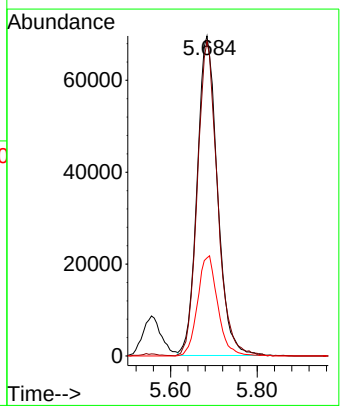


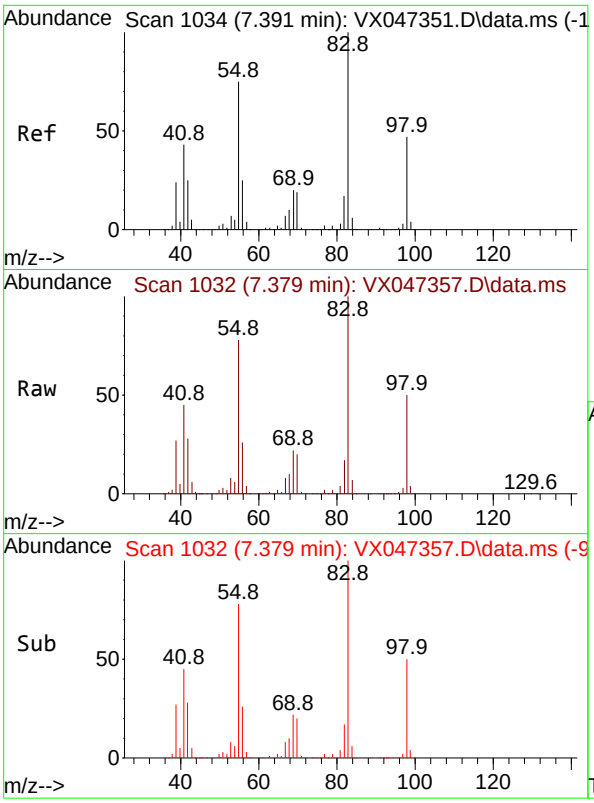


#38
Carbon Tetrachloride
Concen: 47.393 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:117 Resp: 226854

Ion	Ratio	Lower	Upper
117	100		
119	98.3	78.5	117.7
121	30.7	24.7	37.1

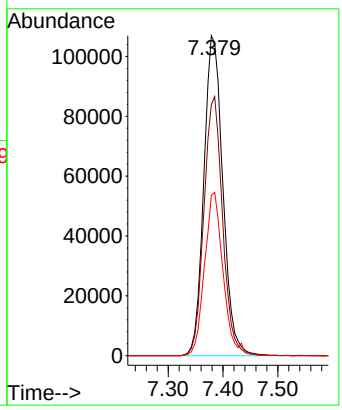




#39
Methylcyclohexane
Concen: 47.074 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.012 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 83 Resp: 25719

Ion	Ratio	Lower	Upper
83	100		
55	78.4	60.0	90.0
98	50.0	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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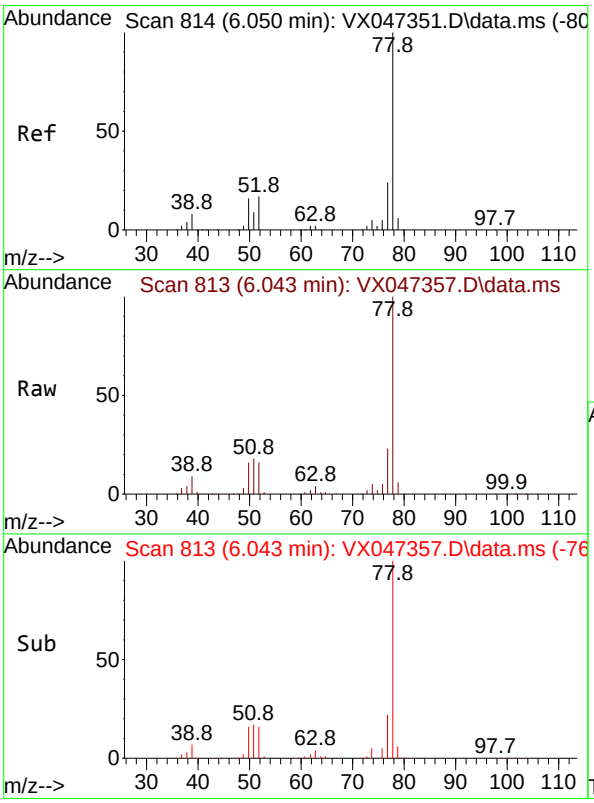
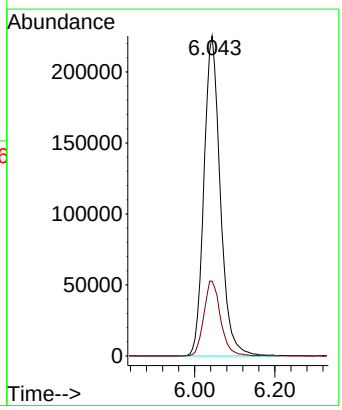
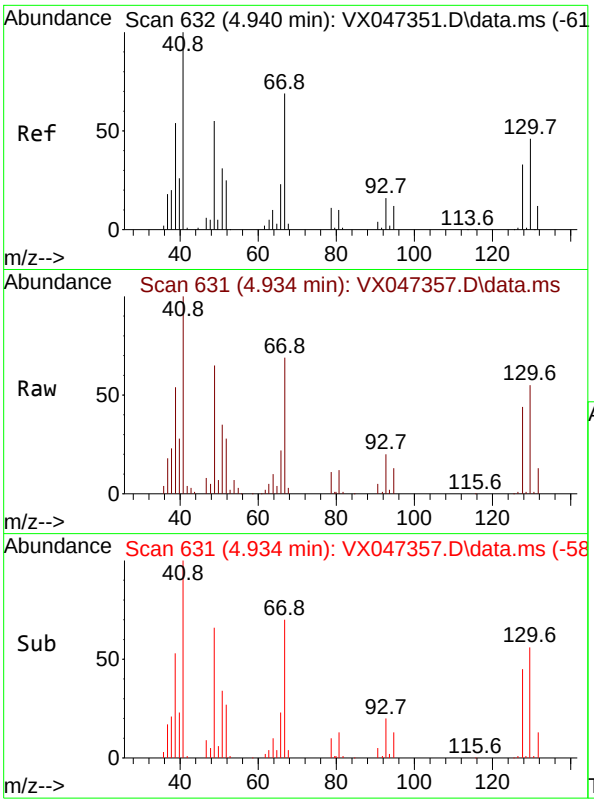


#40
Benzene
Concen: 48.672 ug/l
RT: 6.043 min Scan# 813
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 78 Resp: 638127

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4

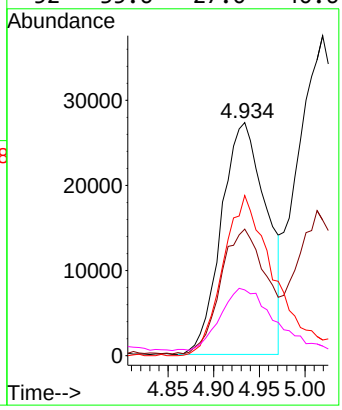




#41
Methacrylonitrile
Concen: 48.768 ug/l
RT: 4.934 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 41 Resp: 9351

Ion	Ratio	Lower	Upper
41	100		
39	54.3	45.4	68.2
67	82.3	64.0	96.0
52	35.6	27.0	40.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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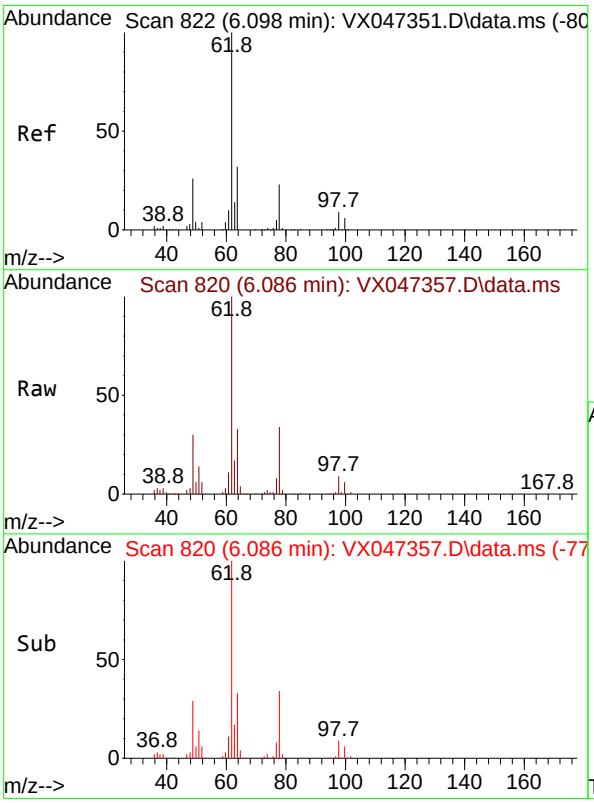
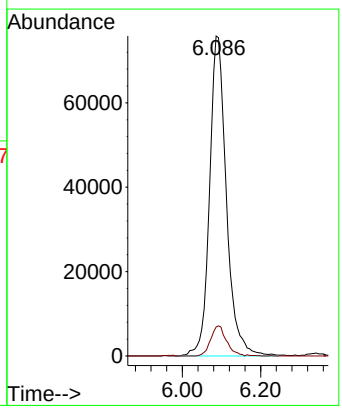
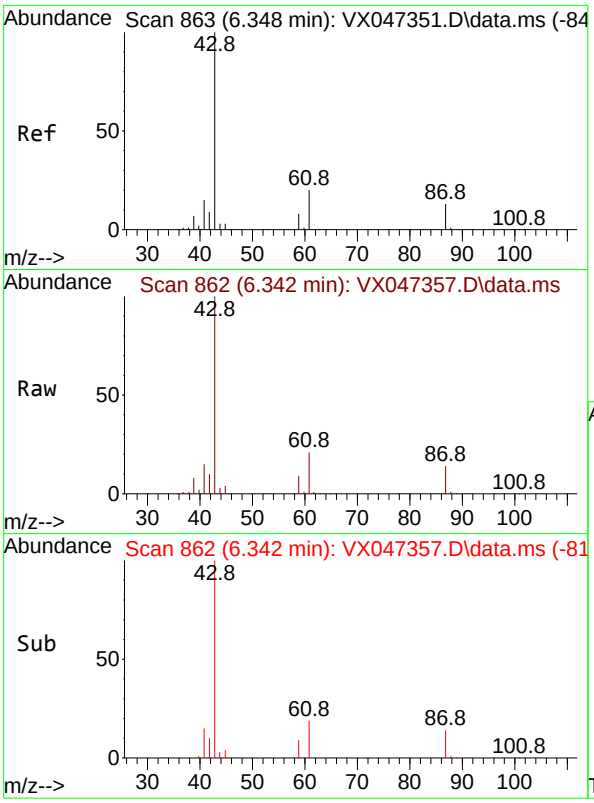


#42
1,2-Dichloroethane
Concen: 48.708 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.012 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 62 Resp: 226201

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.0

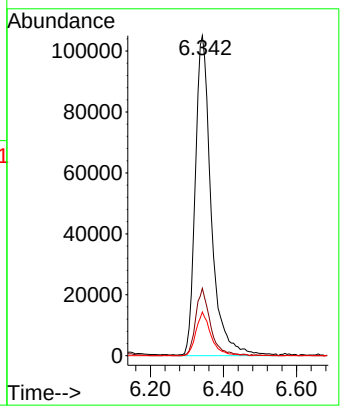




#43
Isopropyl Acetate
Concen: 48.740 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 43 Resp: 31840

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.4	23.0
87	12.9	10.2	15.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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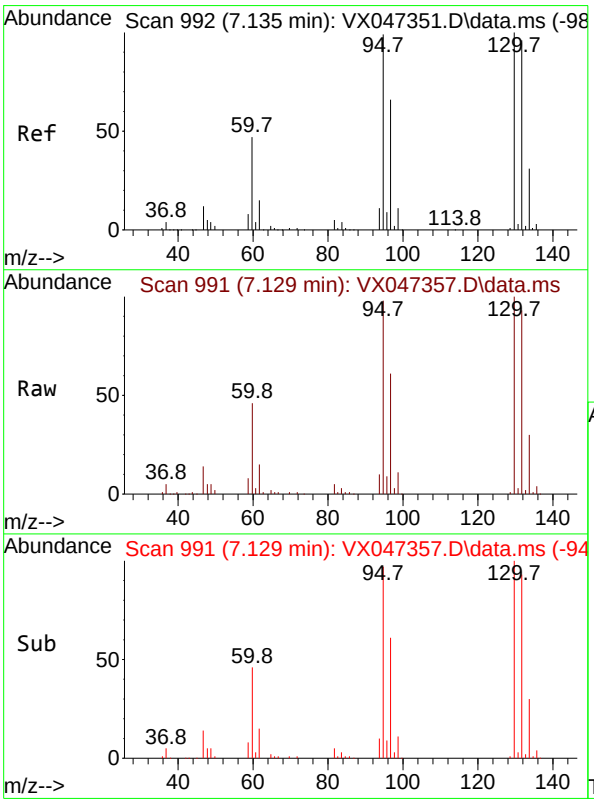
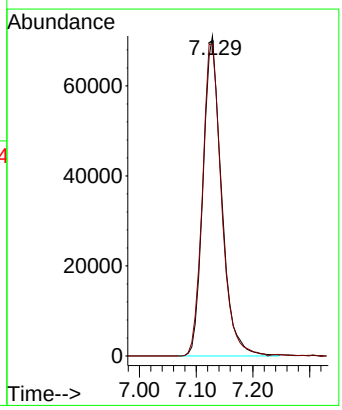
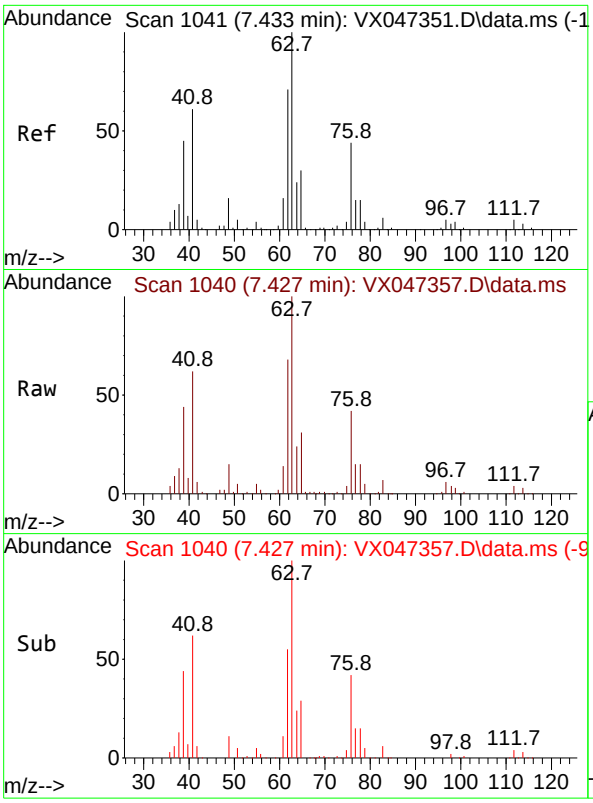


#44
Trichloroethene
Concen: 47.974 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:130 Resp: 161053

Ion	Ratio	Lower	Upper
130	100		
95	97.5	0.0	198.6

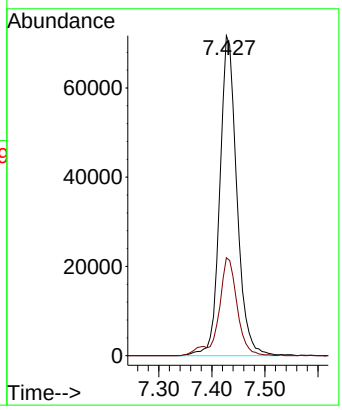




#45
1,2-Dichloropropane
Concen: 48.760 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 63 Resp: 16015

Ion	Ratio	Lower	Upper
63	100		
65	30.6	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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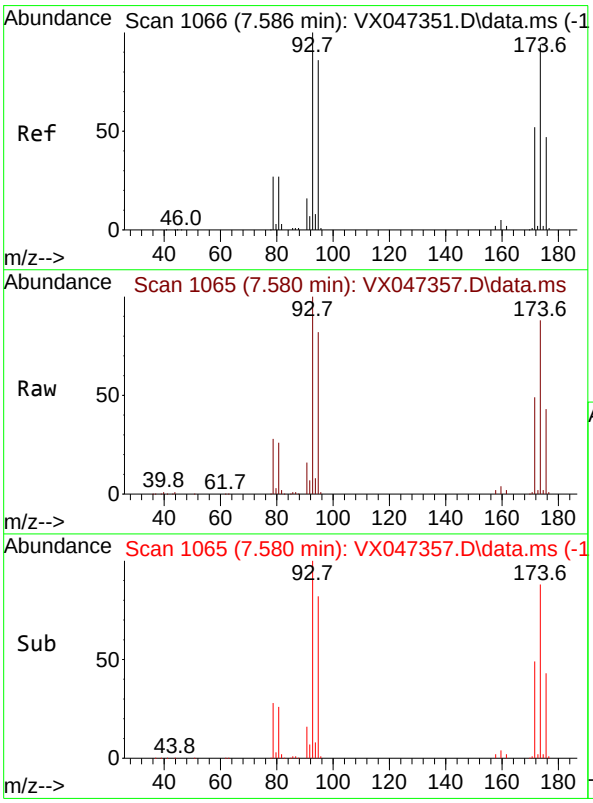
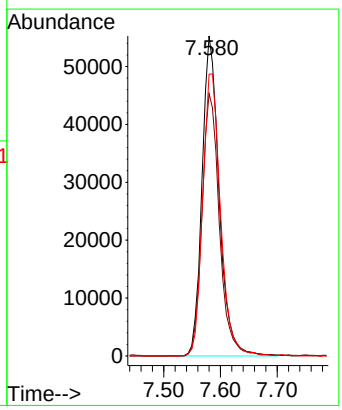
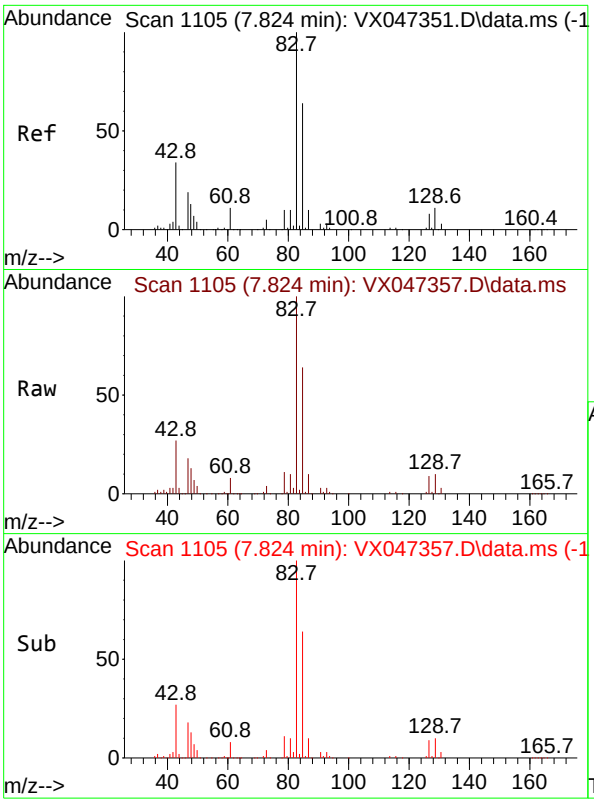


#46
Dibromomethane
Concen: 48.500 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 93 Resp: 115651

Ion	Ratio	Lower	Upper
93	100		
95	83.5	68.0	102.0
174	92.2	75.8	113.6

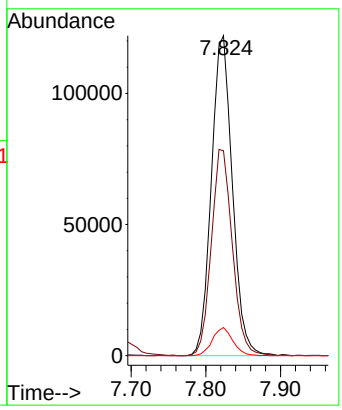




#47
Bromodichloromethane
Concen: 48.121 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 83 Resp: 23788

Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.0	76.6
127	8.8	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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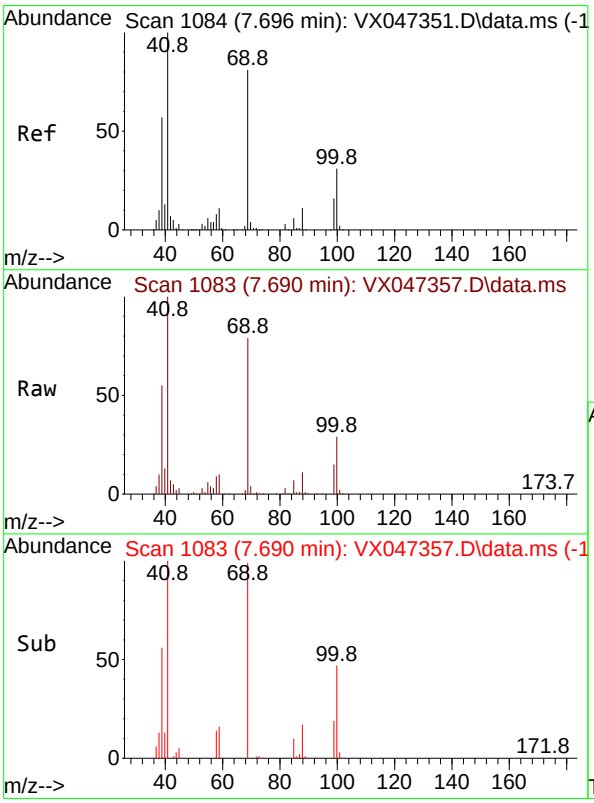
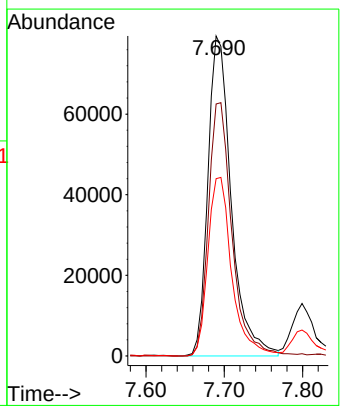
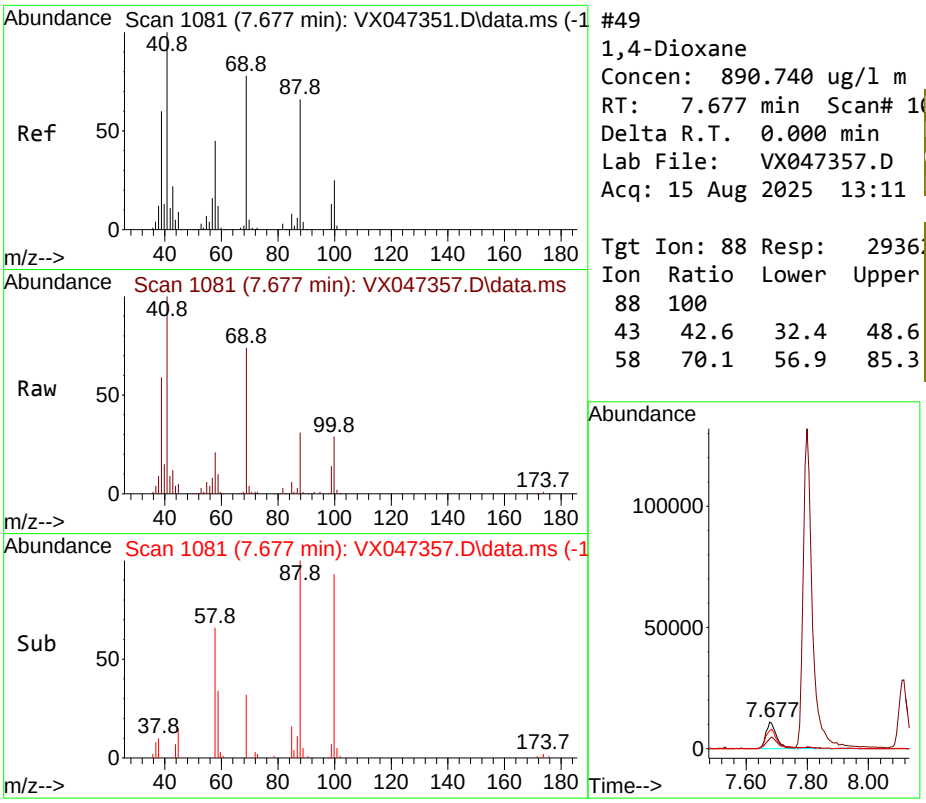


#48
Methyl methacrylate
Concen: 48.604 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 41 Resp: 164810

Ion	Ratio	Lower	Upper
41	100		
69	79.8	65.0	97.4
39	57.0	45.7	68.5





#49
1,4-Dioxane
Concen: 890.740 ug/l m
RT: 7.677 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 88 Resp: 2936

Ion	Ratio	Lower	Upper
88	100		
43	42.6	32.4	48.6
58	70.1	56.9	85.3

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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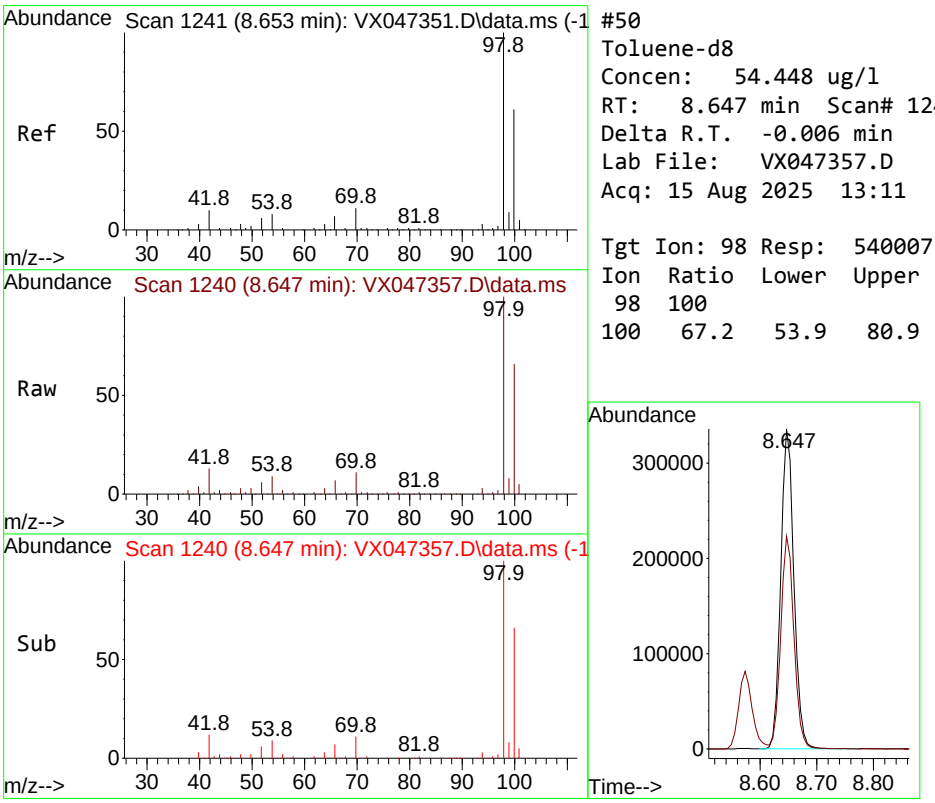
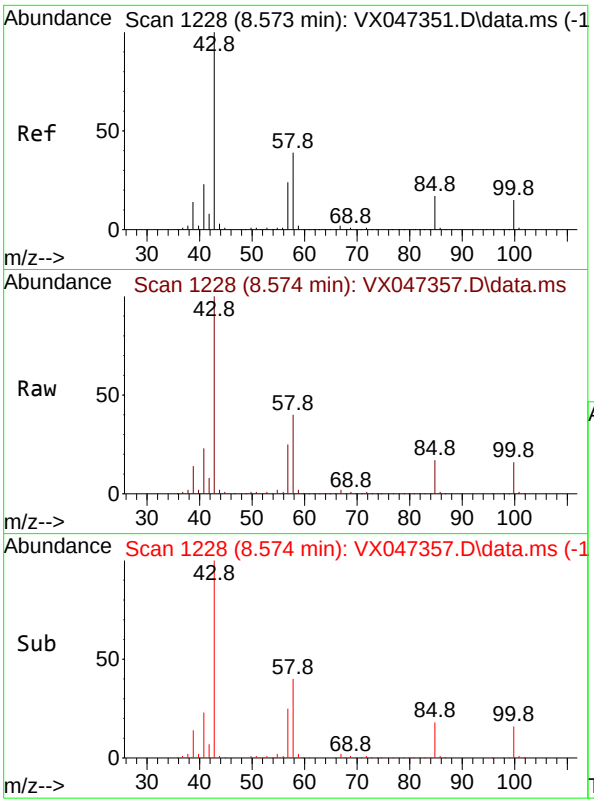


#50
Toluene-d8
Concen: 54.448 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 98 Resp: 540007

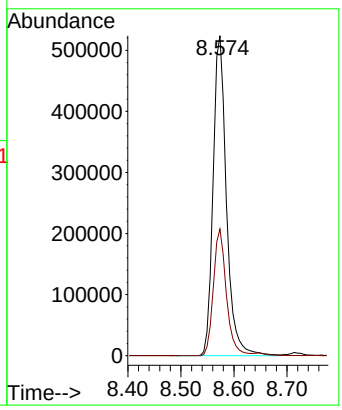
Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.9	80.9



#51
4-Methyl-2-Pentanone
Concen: 243.797 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 43 Resp: 91649

Ion	Ratio	Lower	Upper
43	100		
58	38.3	31.2	46.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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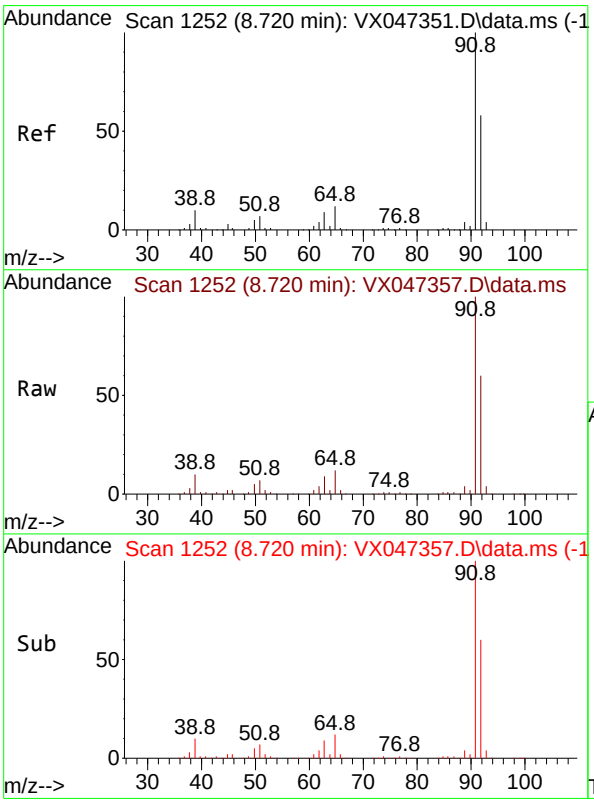
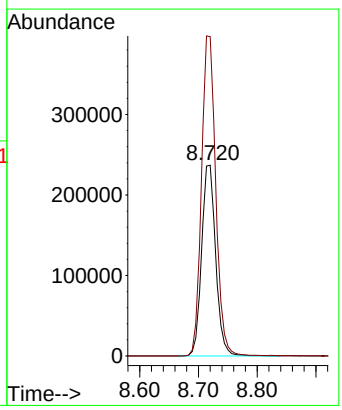
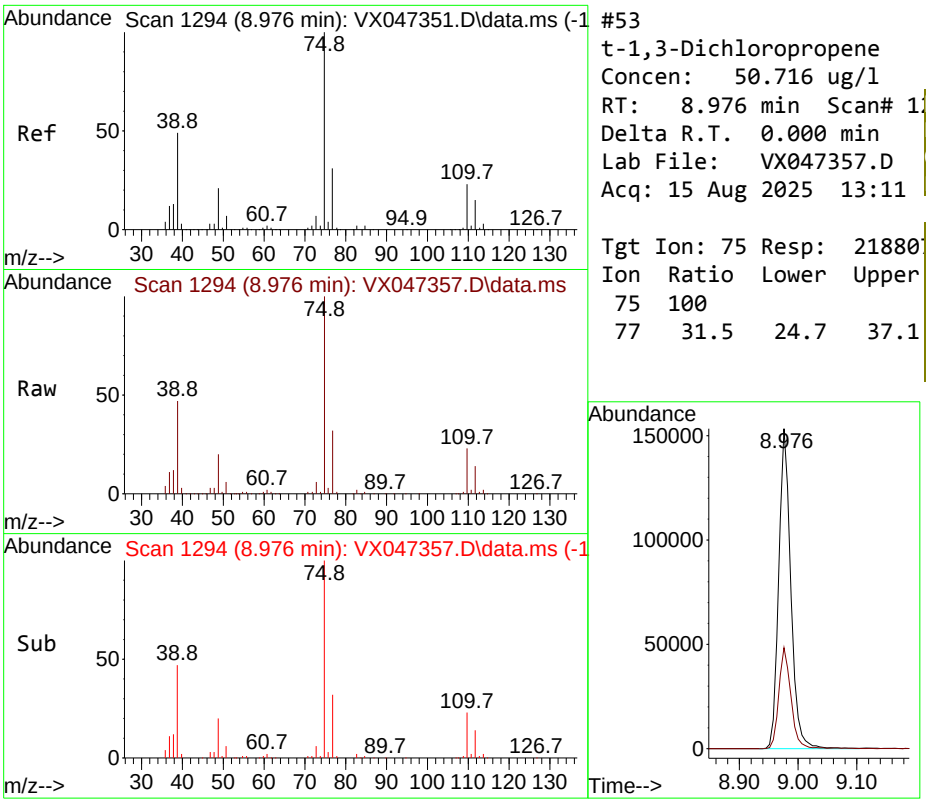


#52
Toluene
Concen: 48.706 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 92 Resp: 394588

Ion	Ratio	Lower	Upper
92	100		
91	170.1	136.3	204.5





#53
t-1,3-Dichloropropene
Concen: 50.716 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 75 Resp: 21880

Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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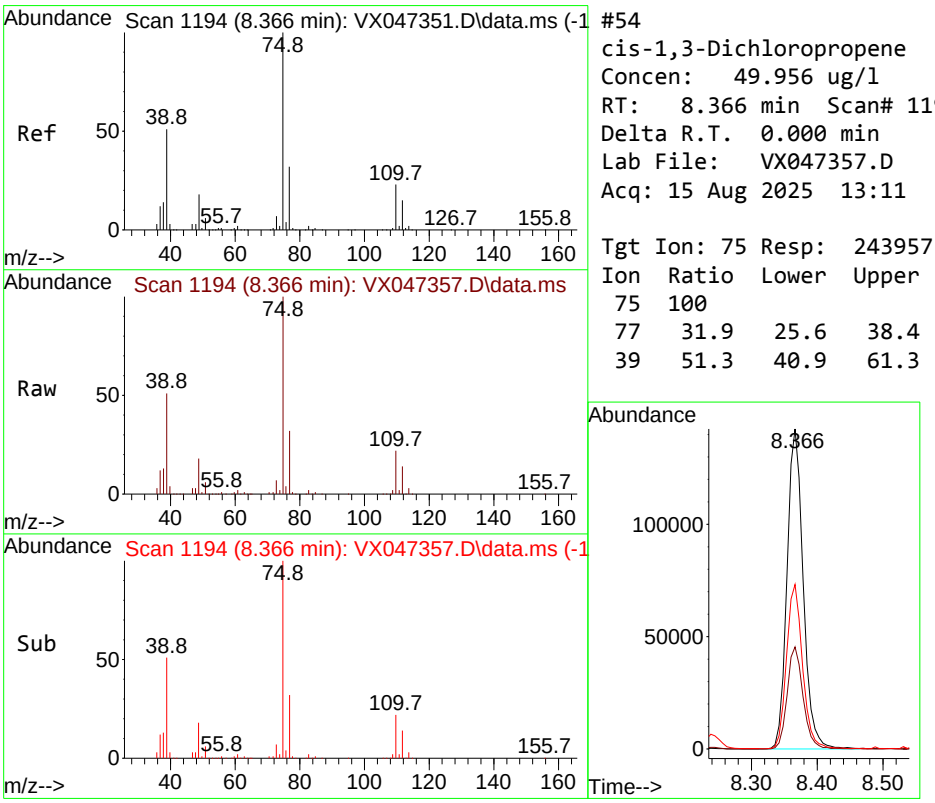
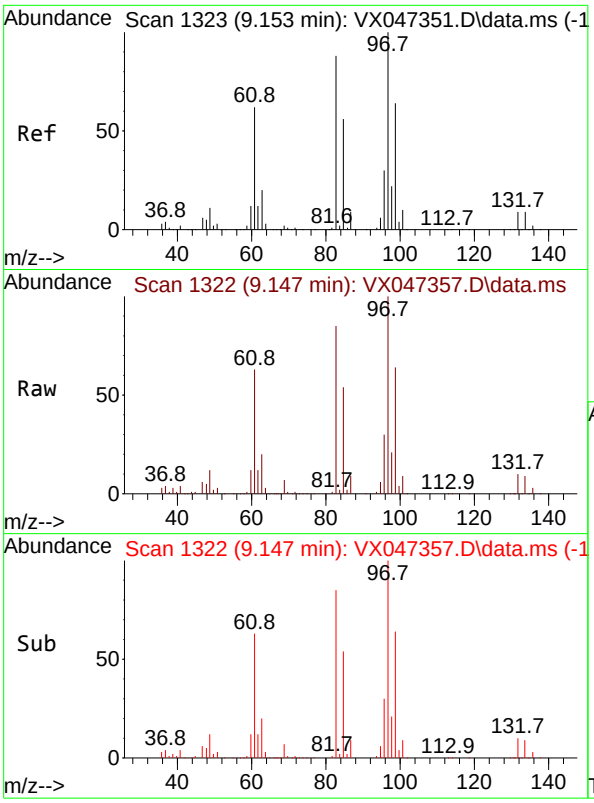


#54
cis-1,3-Dichloropropene
Concen: 49.956 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 75 Resp: 243957

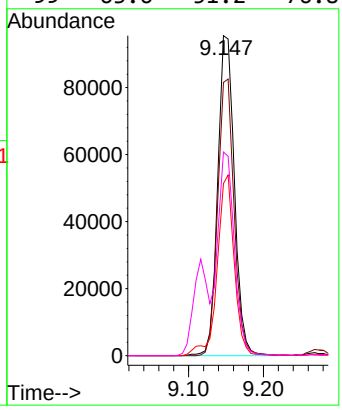
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.6	38.4
39	51.3	40.9	61.3



#55
1,1,2-Trichloroethane
Concen: 48.385 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 97 Resp: 14883

Ion	Ratio	Lower	Upper
97	100		
83	85.4	70.6	106.0
85	53.8	44.7	67.1
99	63.6	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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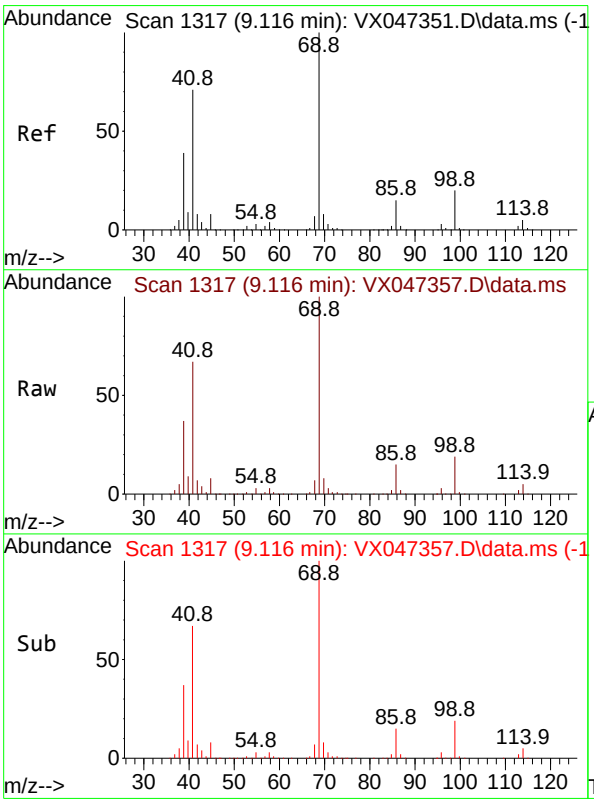
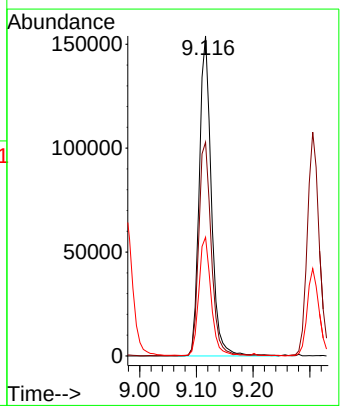
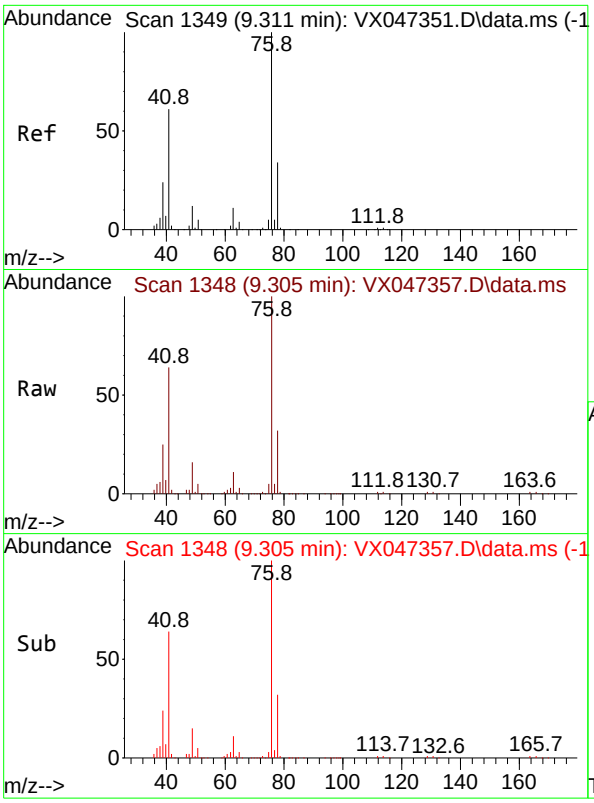


#56
Ethyl methacrylate
Concen: 50.140 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 69 Resp: 227388

Ion	Ratio	Lower	Upper
69	100		
41	69.1	55.3	82.9
39	37.2	30.2	45.2

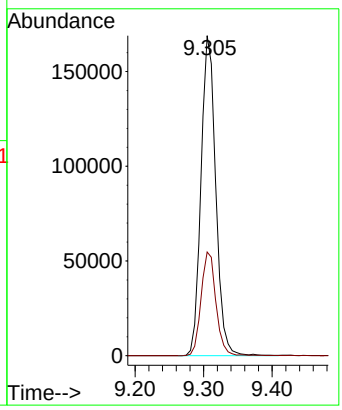




#57
1,3-Dichloropropane
Concen: 48.290 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 76 Resp: 25310

Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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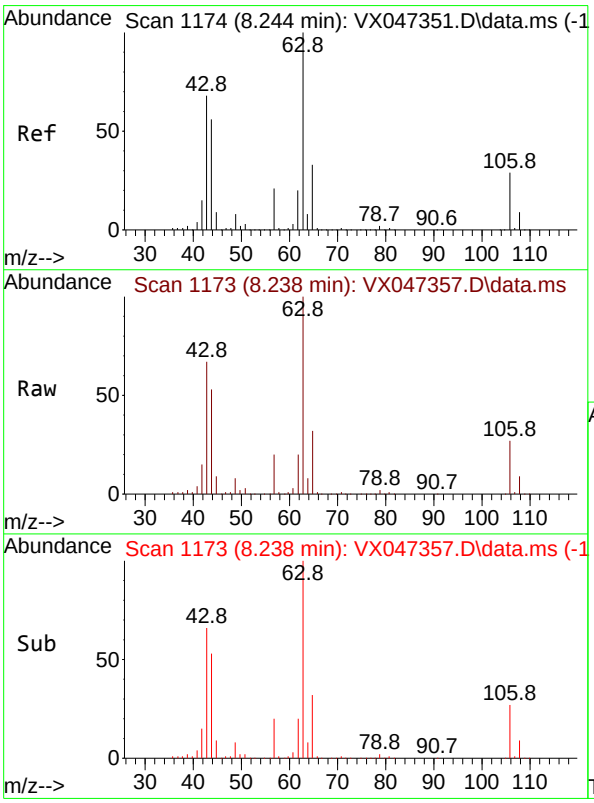
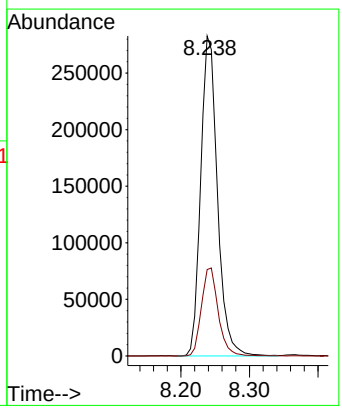
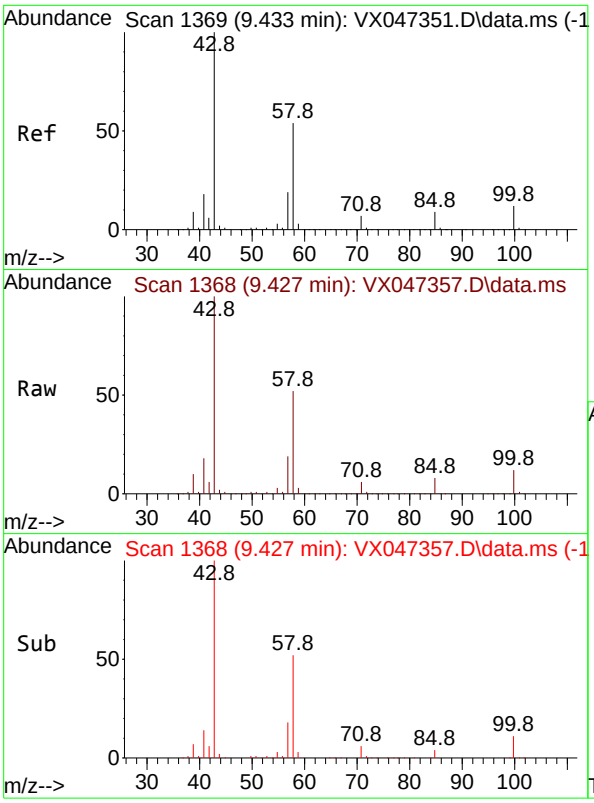


#58
2-Chloroethyl Vinyl ether
Concen: 222.770 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 63 Resp: 480379

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.8	34.2

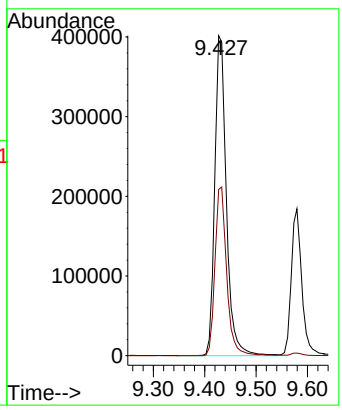




#59
2-Hexanone
Concen: 242.481 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 43 Resp: 63054

Ion	Ratio	Lower	Upper
43	100		
58	53.2	26.9	80.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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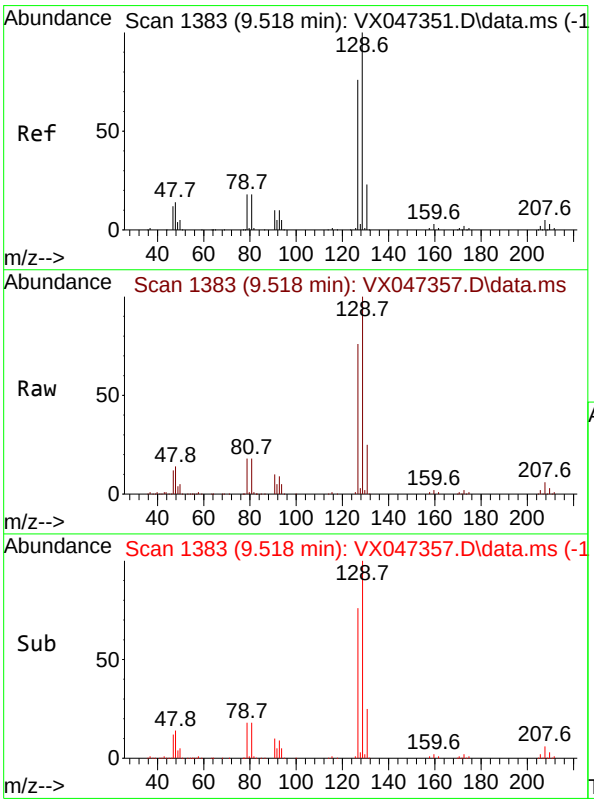
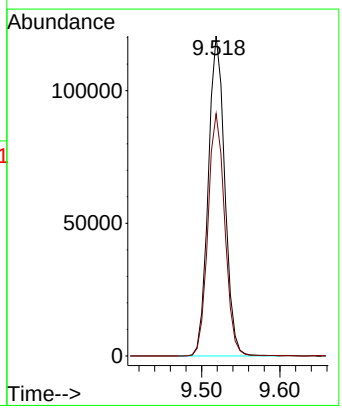
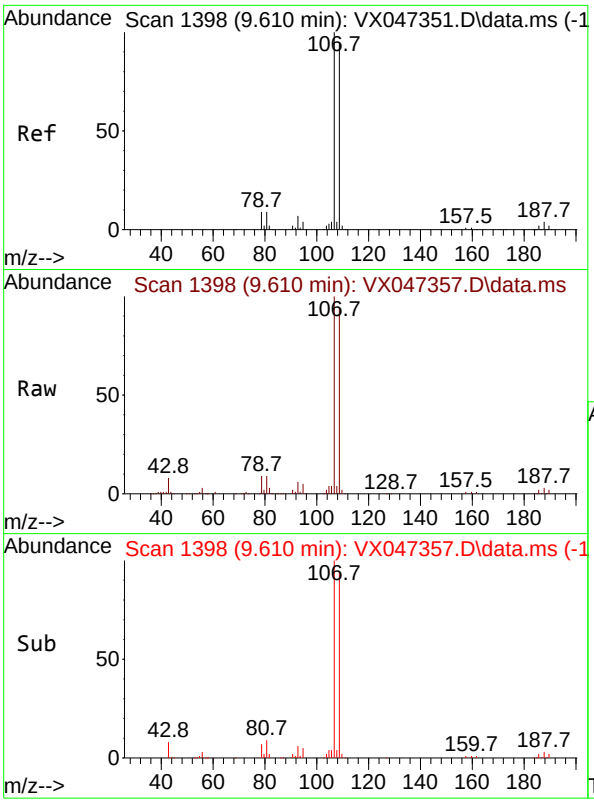


#60
Dibromochloromethane
Concen: 48.122 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:129 Resp: 175911

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.9	116.6

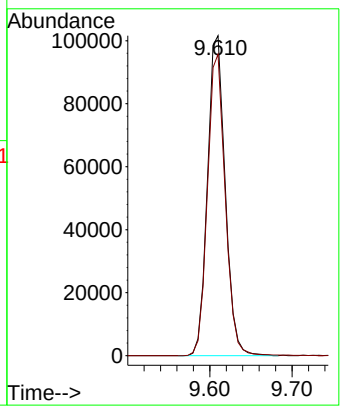




#61
1,2-Dibromoethane
Concen: 47.971 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:107 Resp: 15216

Ion	Ratio	Lower	Upper
107	100		
109	94.5	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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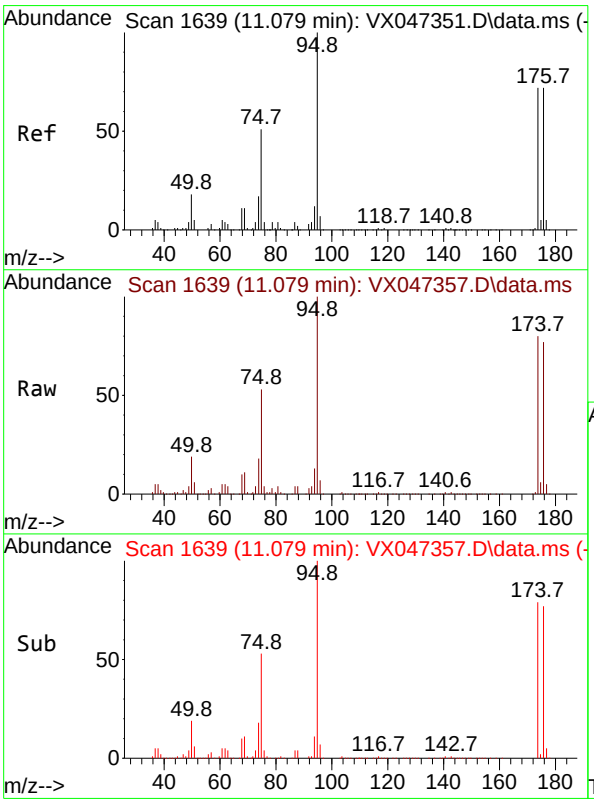
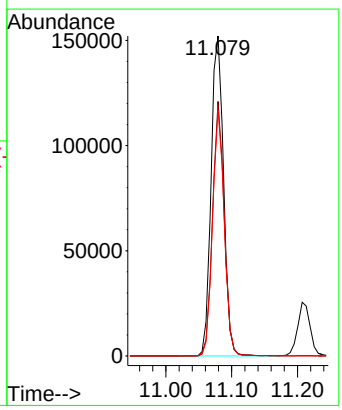
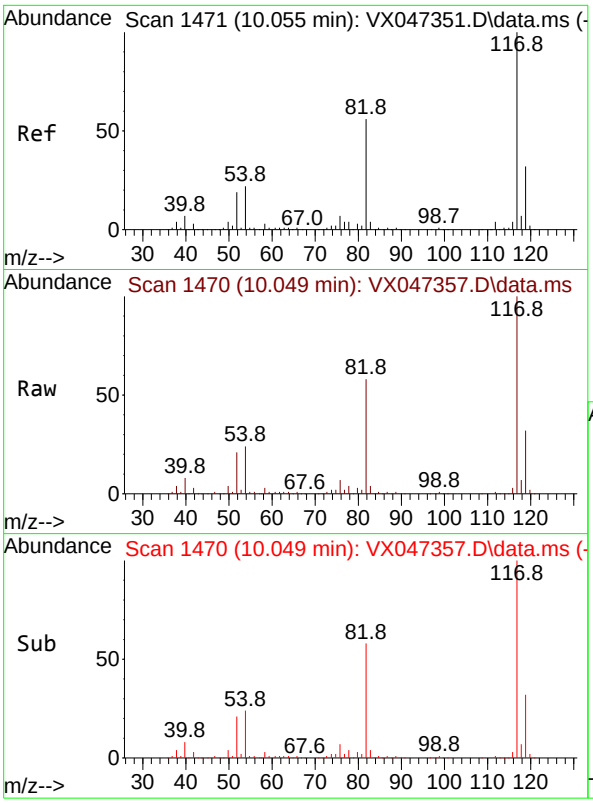


#62
4-Bromofluorobenzene
Concen: 54.723 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 95 Resp: 200280

Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	148.0
176	72.2	0.0	145.4

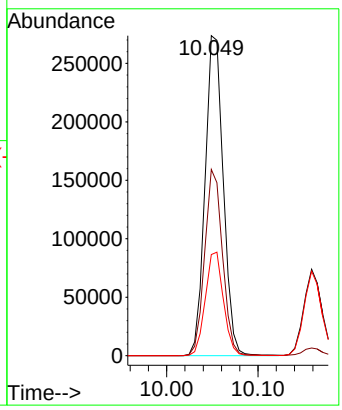




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:117 Resp: 37900

Ion	Ratio	Lower	Upper
117	100		
82	58.2	45.0	67.4
119	31.6	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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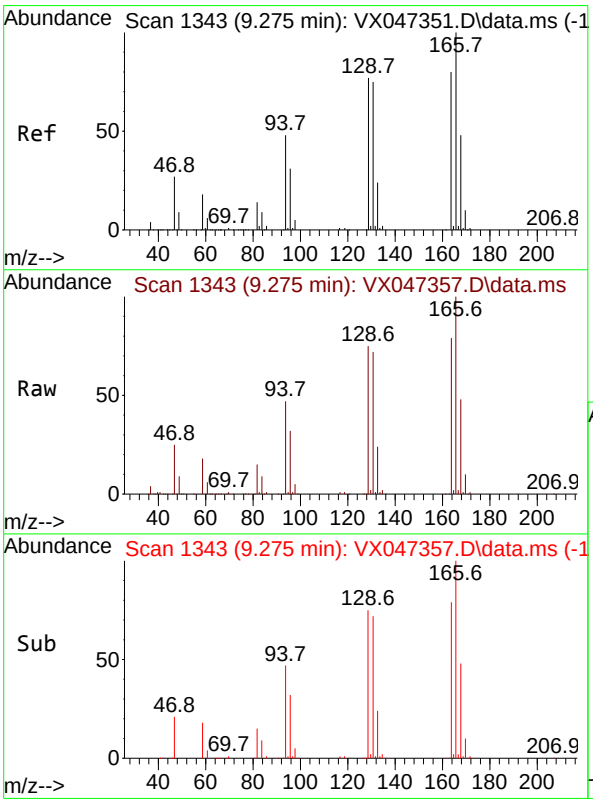
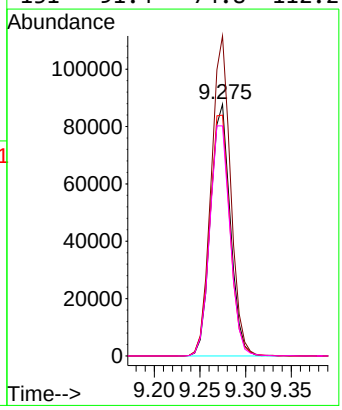
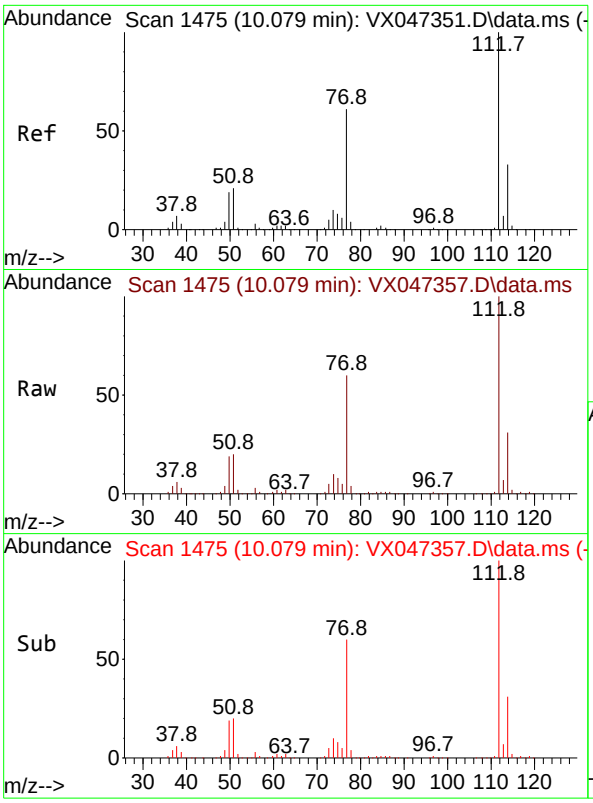


#64
Tetrachloroethene
Concen: 47.871 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:164 Resp: 131233

Ion	Ratio	Lower	Upper
164	100		
166	127.1	100.3	150.5
129	95.7	77.7	116.5
131	91.4	74.8	112.2

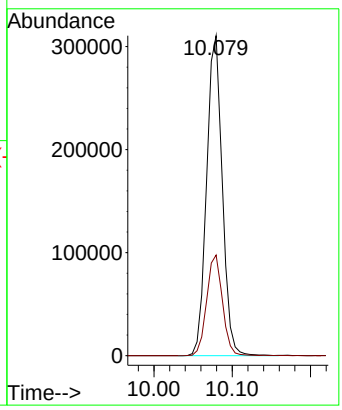




#65
Chlorobenzene
Concen: 47.724 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:112 Resp: 42983

Ion	Ratio	Lower	Upper
112	100		
114	31.4	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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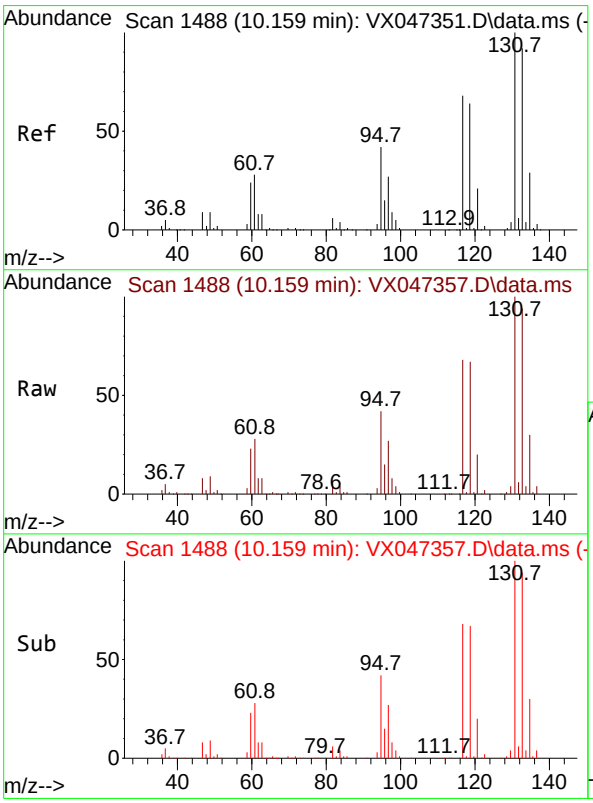
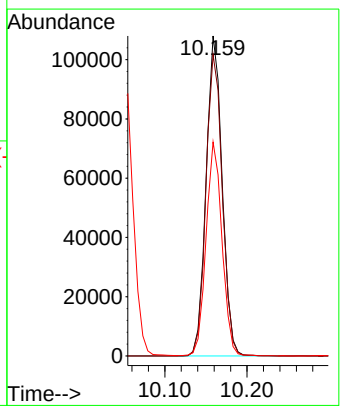
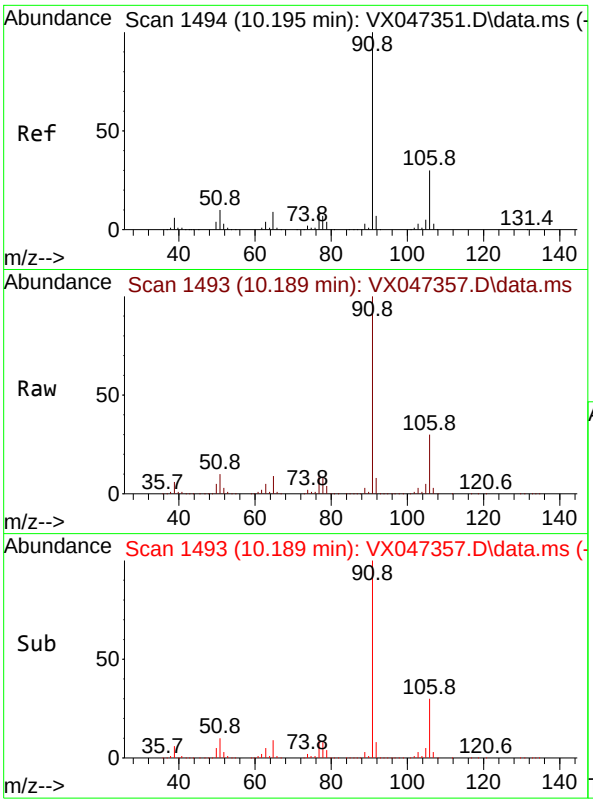


#66
1,1,1,2-Tetrachloroethane
Concen: 48.099 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:131 Resp: 146443

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.6	142.9
119	66.6	32.3	96.8

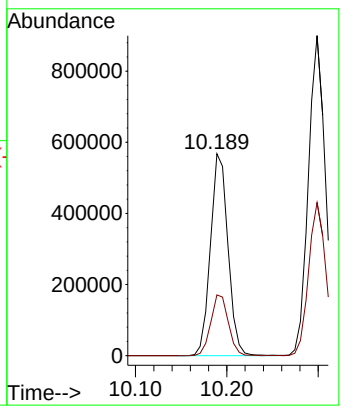




#67
Ethyl Benzene
Concen: 48.829 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 91 Resp: 75693

Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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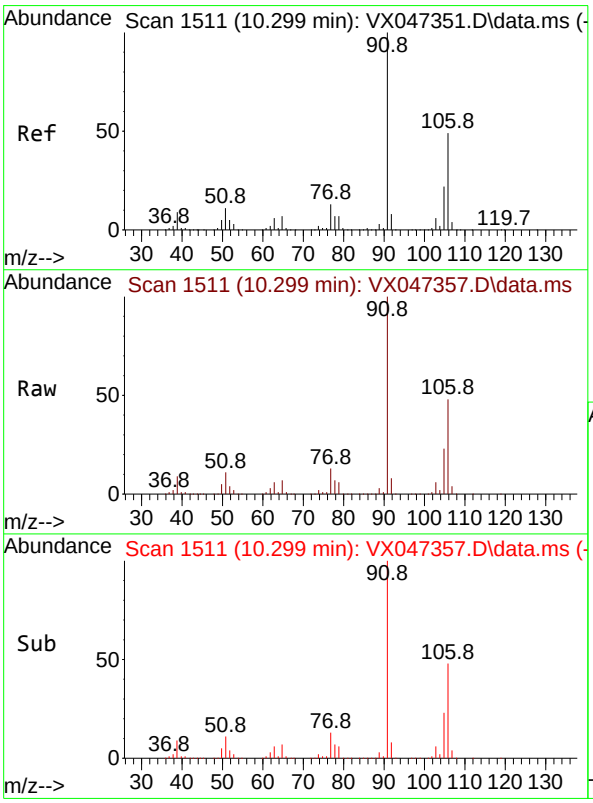
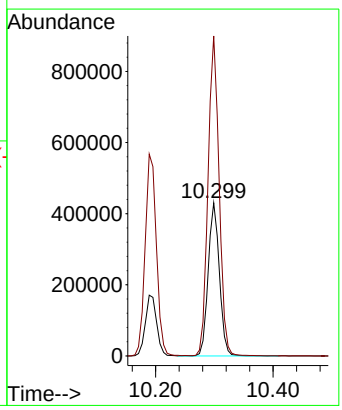
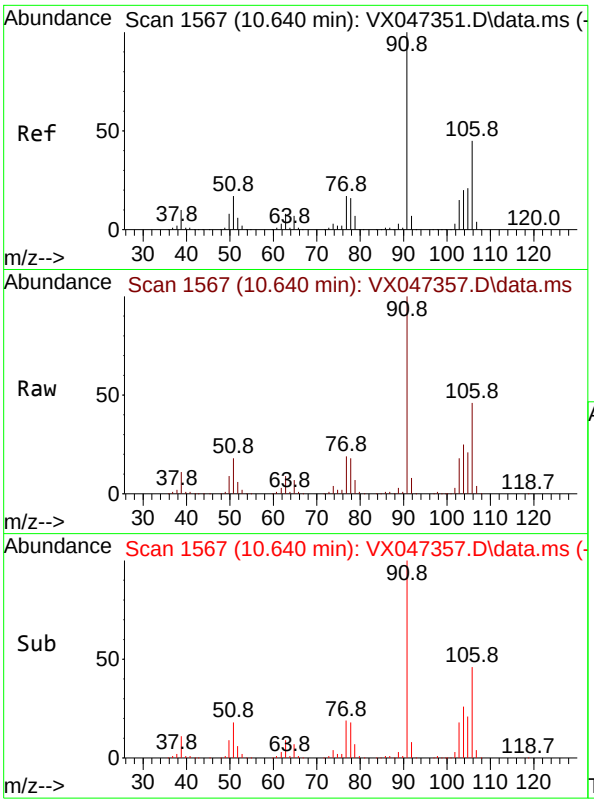


#68
m/p-Xylenes
Concen: 98.705 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:106 Resp: 570536

Ion	Ratio	Lower	Upper
106	100		
91	207.5	164.7	247.1

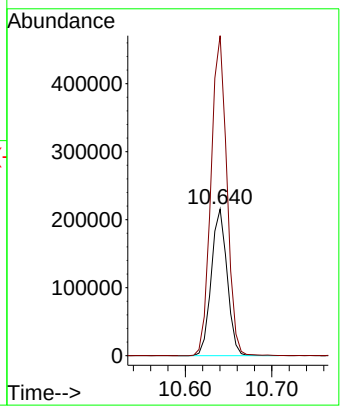




#69
o-Xylene
Concen: 49.223 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:106 Resp: 27380

Ion	Ratio	Lower	Upper
106	100		
91	219.2	110.6	331.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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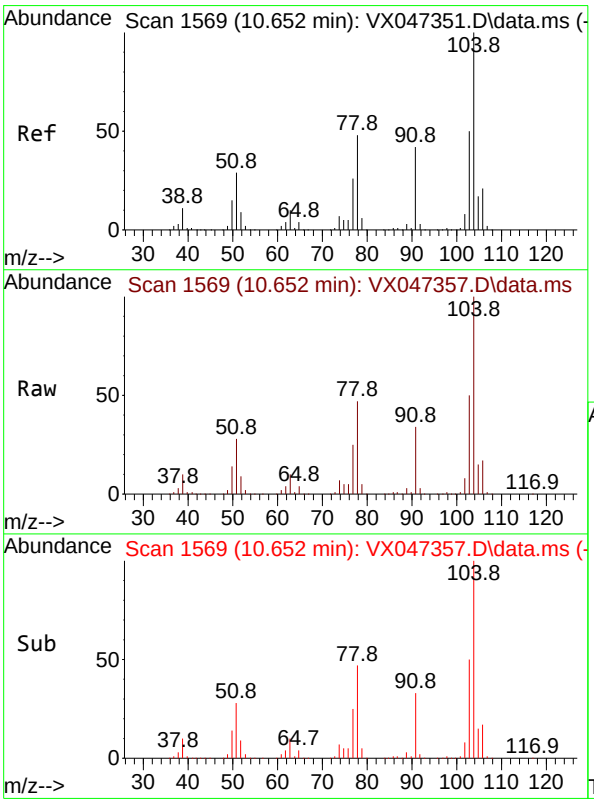
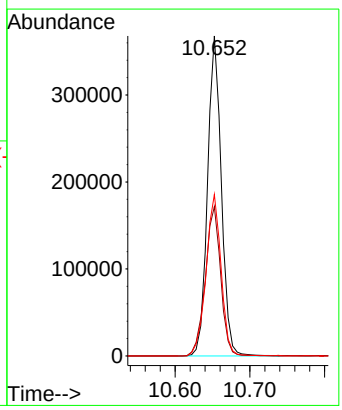
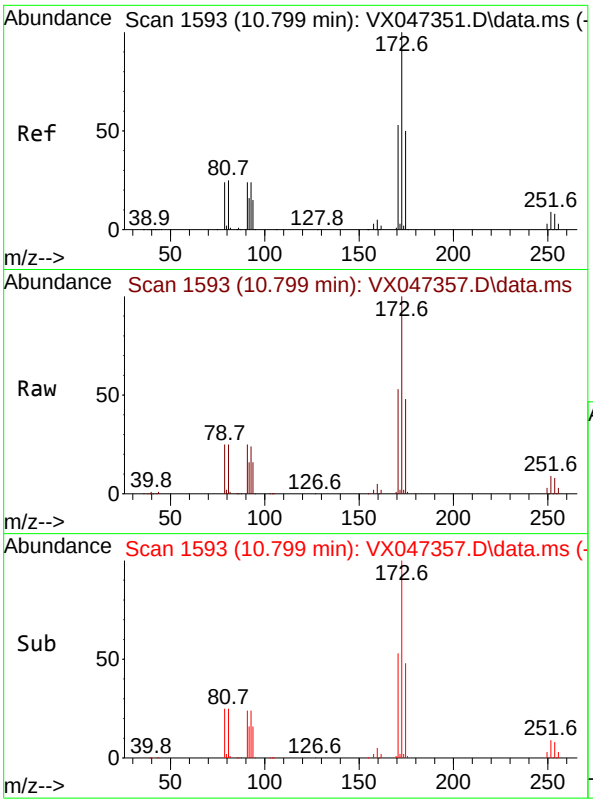


#70
Styrene
Concen: 50.176 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:104 Resp: 471591

Ion	Ratio	Lower	Upper
104	100		
78	52.1	41.8	62.8
103	55.0	43.6	65.4

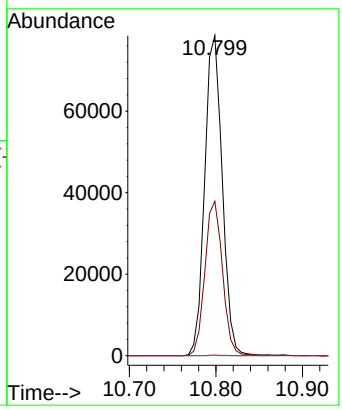




#71
Bromoform
Concen: 48.446 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:173 Resp: 11081

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.4	73.4
254	0.2	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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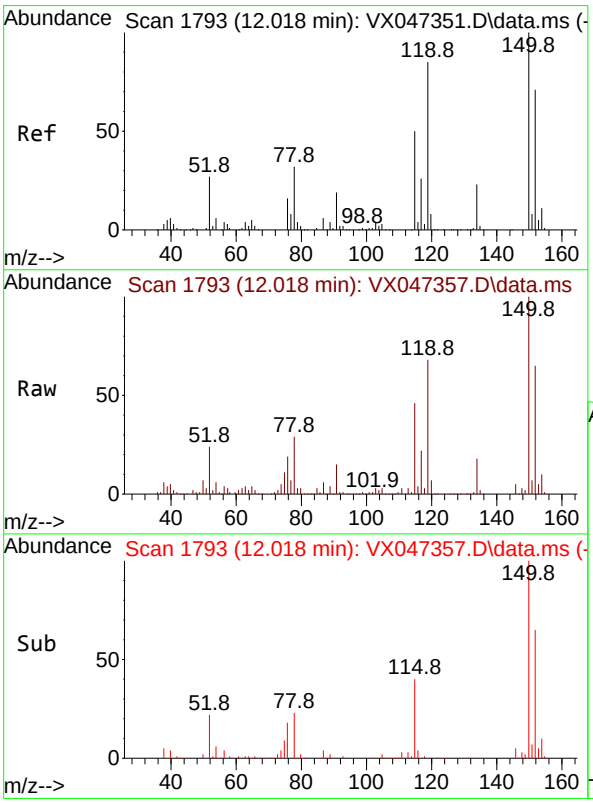
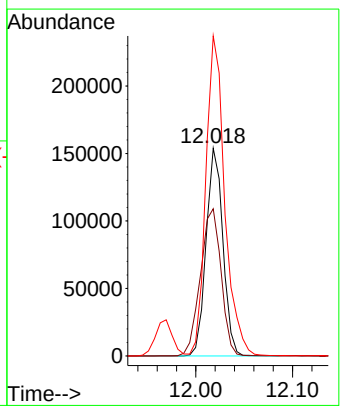
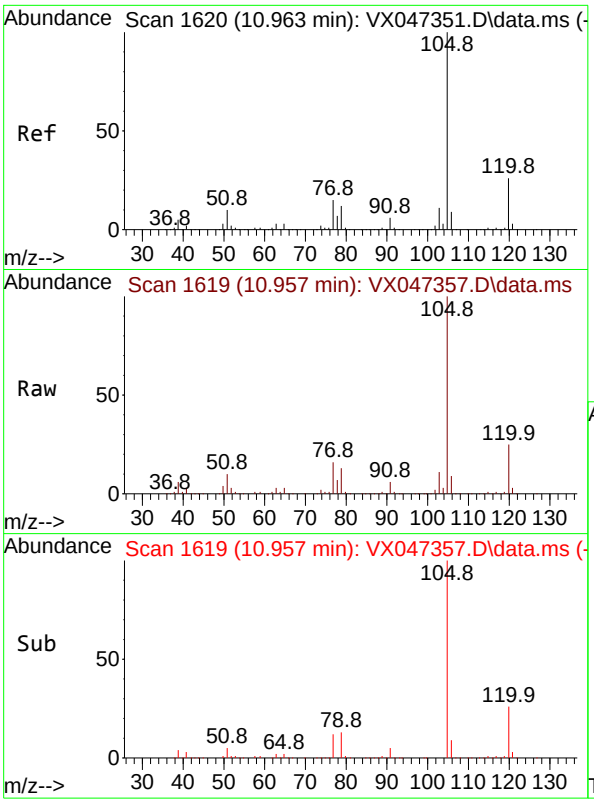


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:152 Resp: 185789

Ion	Ratio	Lower	Upper
152	100		
115	87.4	44.6	133.8
150	172.7	0.0	349.8

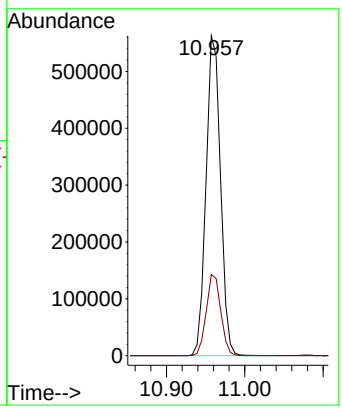




#73
Isopropylbenzene
Concen: 49.432 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:105 Resp: 71869

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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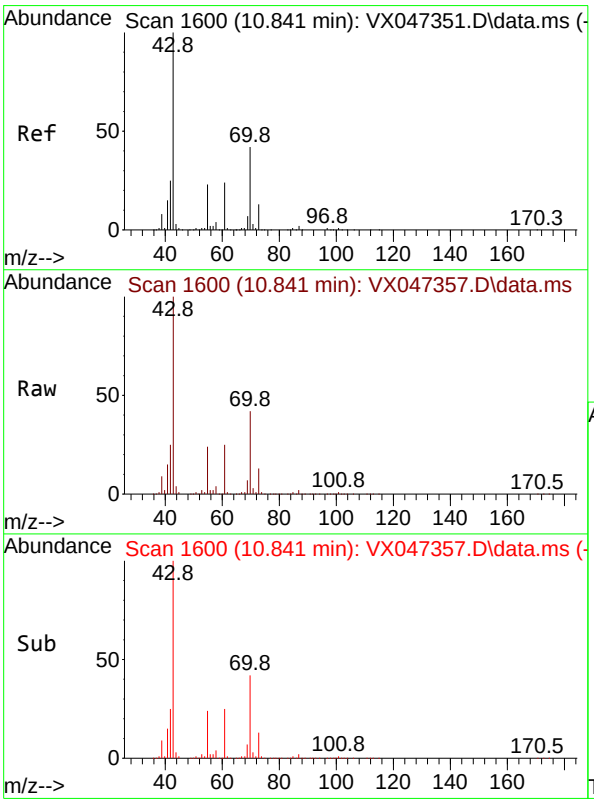
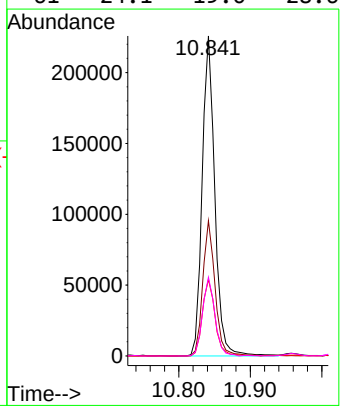
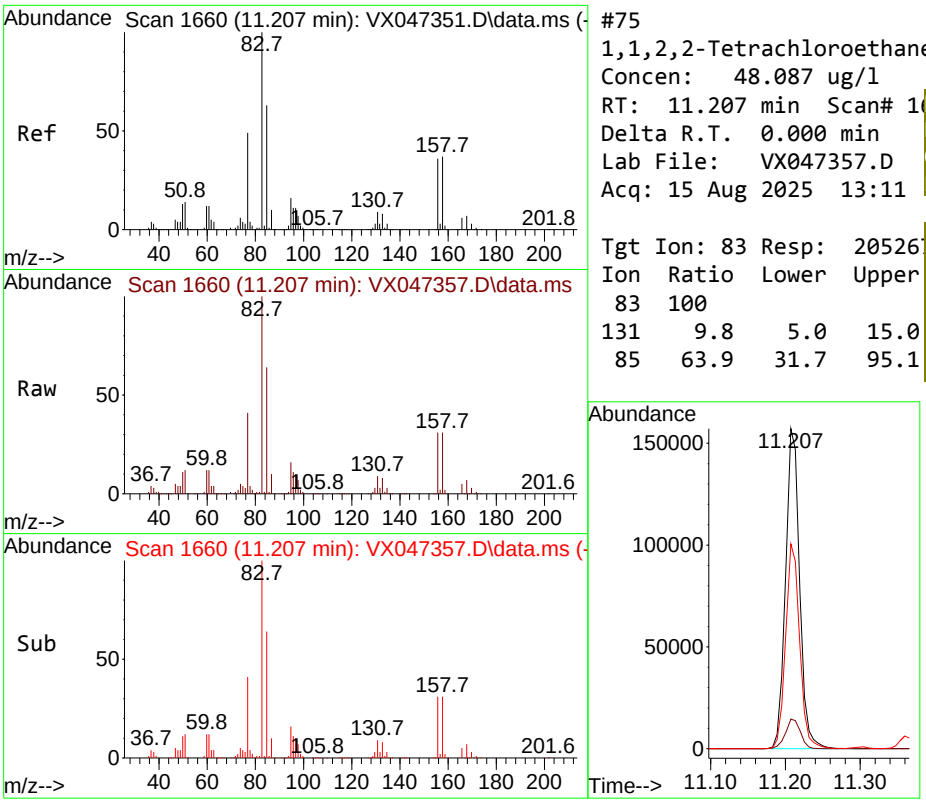


#74
N-amyl acetate
Concen: 50.217 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 43 Resp: 277245

Ion	Ratio	Lower	Upper
43	100		
70	41.4	33.1	49.7
55	24.1	19.0	28.6
61	24.1	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 48.087 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 83 Resp: 20526

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	15.0
85	63.9	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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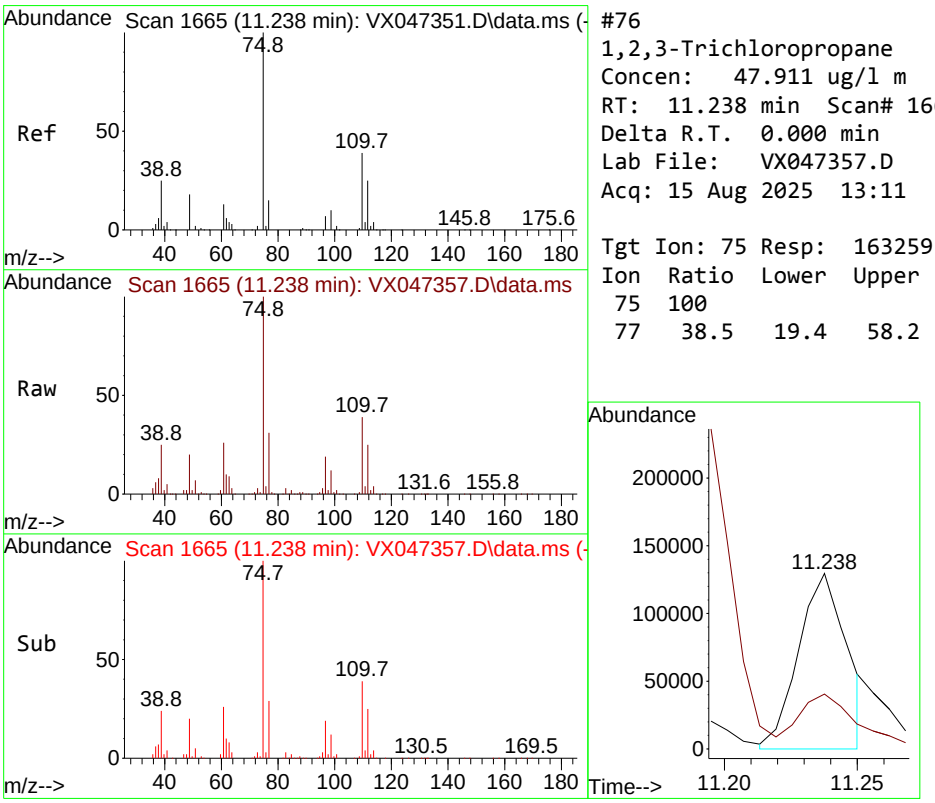
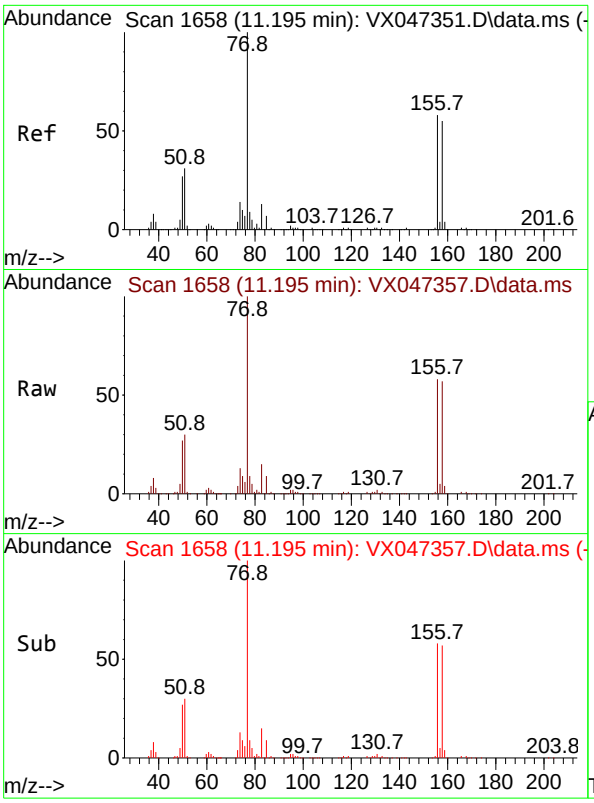


#76
1,2,3-Trichloropropane
Concen: 47.911 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 75 Resp: 163259

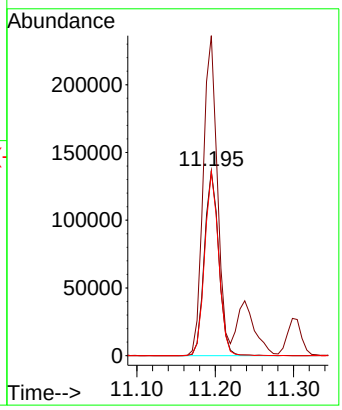
Ion	Ratio	Lower	Upper
75	100		
77	38.5	19.4	58.2



#77
Bromobenzene
Concen: 48.465 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:156 Resp: 17206

Ion	Ratio	Lower	Upper
156	100		
77	172.7	86.3	258.9
158	97.7	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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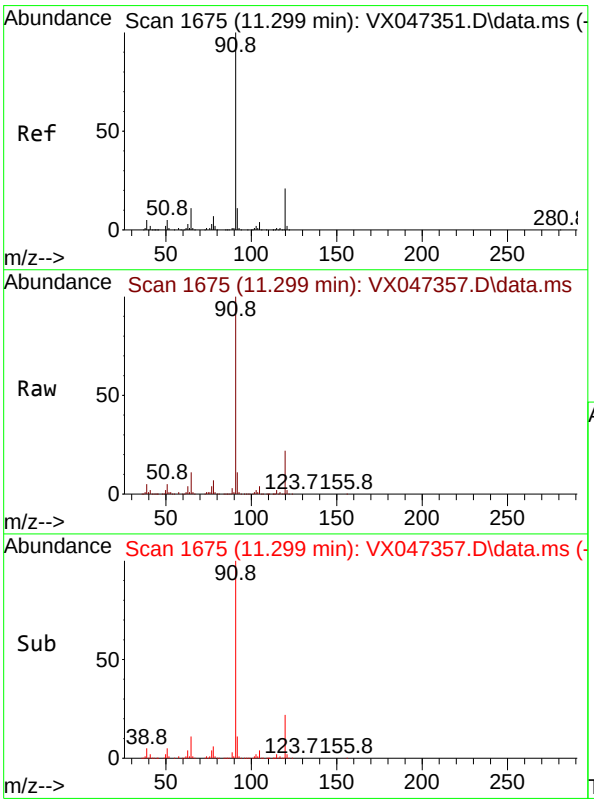
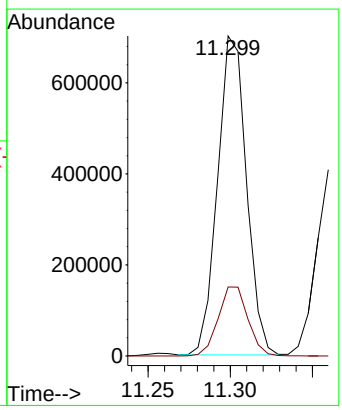
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

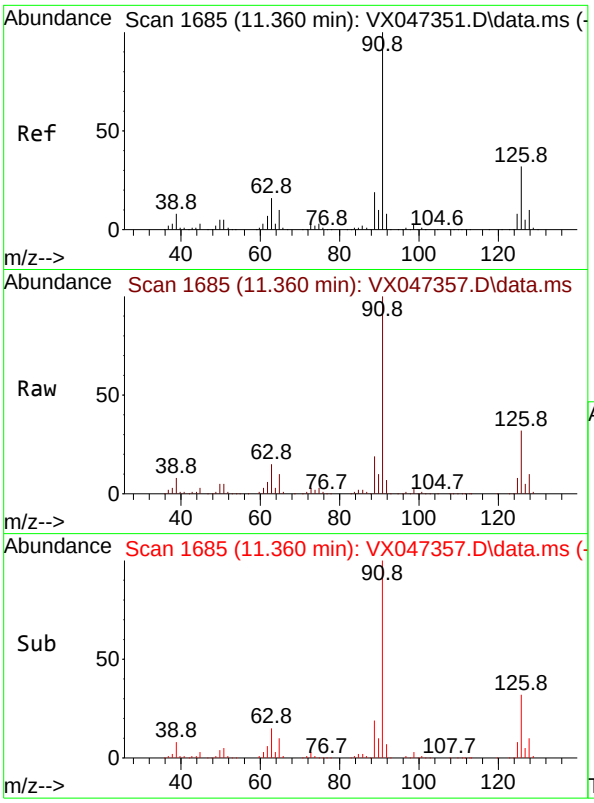


#78
n-propylbenzene
Concen: 49.351 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 91 Resp: 856923

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0

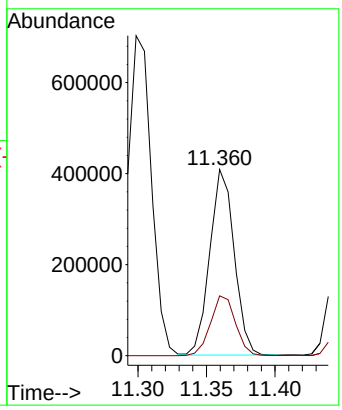




#79
2-Chlorotoluene
Concen: 48.241 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 91 Resp: 50636

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.7	50.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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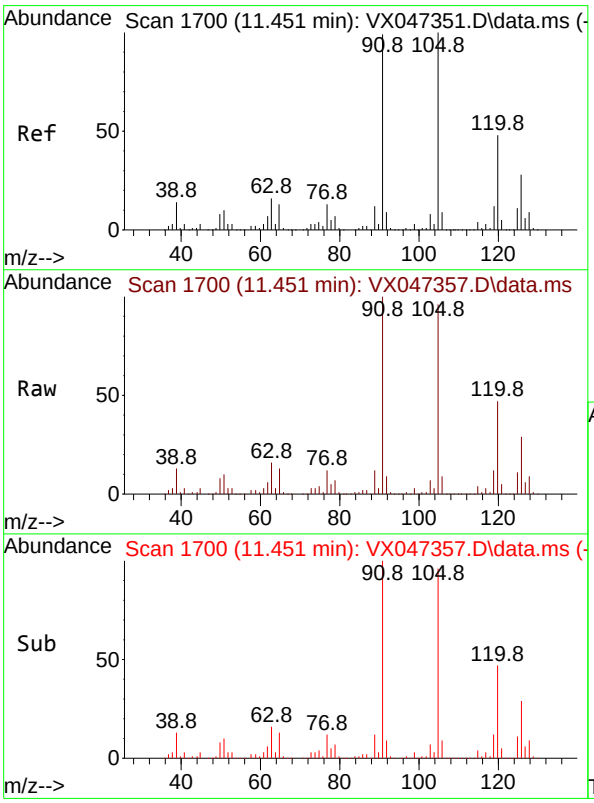
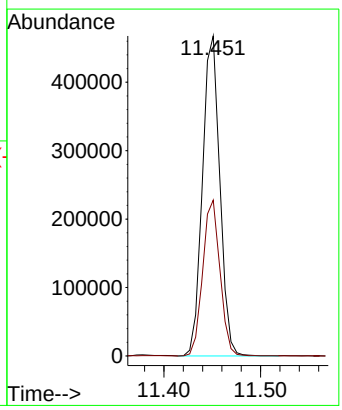
Supervised By :Mahesh Dadoda 08/19/2025

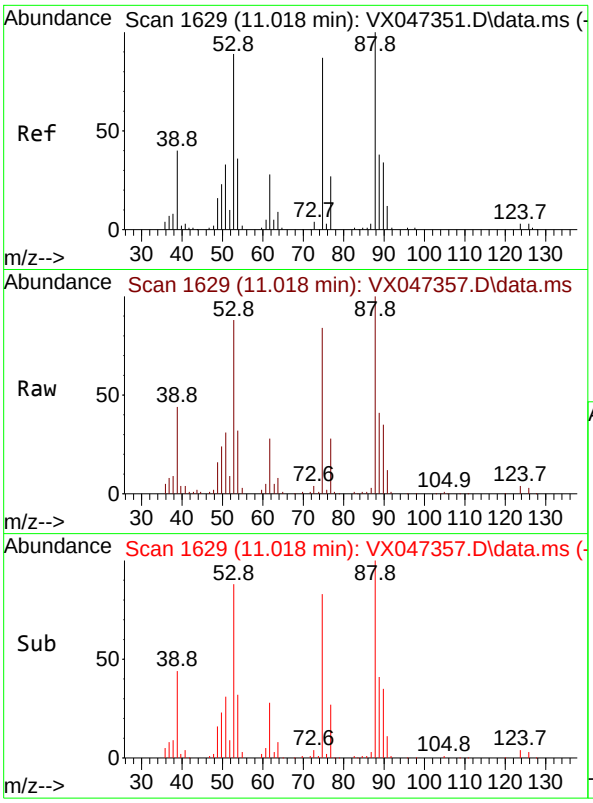


#80
1,3,5-Trimethylbenzene
Concen: 49.013 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:105 Resp: 586315

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.9	71.7

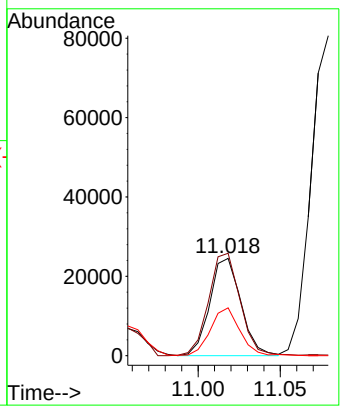




#81
trans-1,4-Dichloro-2-butene
Concen: 42.686 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 75 Resp: 3239

Ion	Ratio	Lower	Upper
75	100		
53	106.1	85.2	127.8
89	46.5	36.7	55.1



Instrument :
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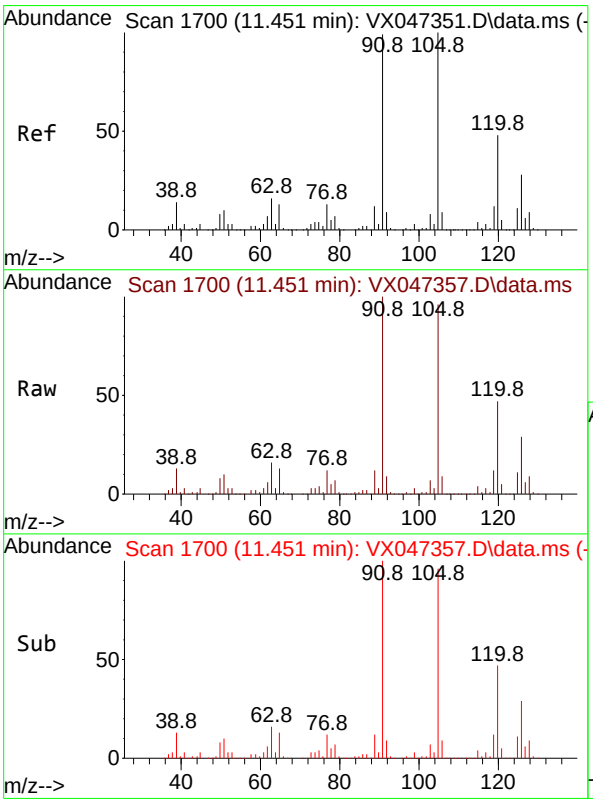
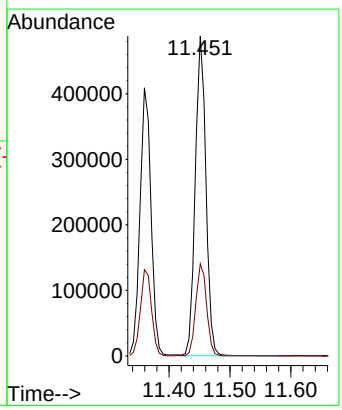
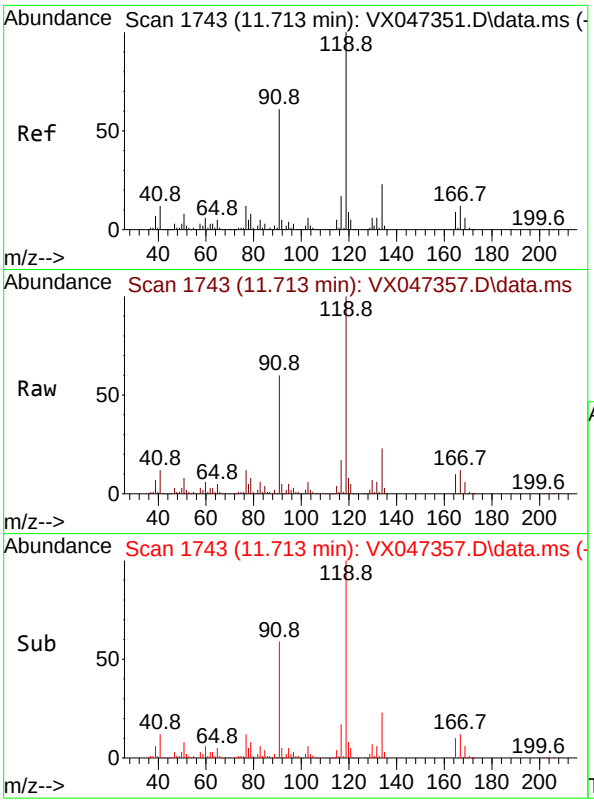


#82
4-Chlorotoluene
Concen: 47.889 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 91 Resp: 592542

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.4	43.0

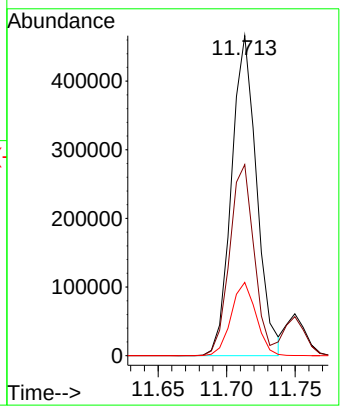




#83
tert-Butylbenzene
Concen: 49.841 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:119 Resp: 59483

Ion	Ratio	Lower	Upper
119	100		
91	57.9	29.1	87.4
134	22.7	11.3	33.9



Instrument :
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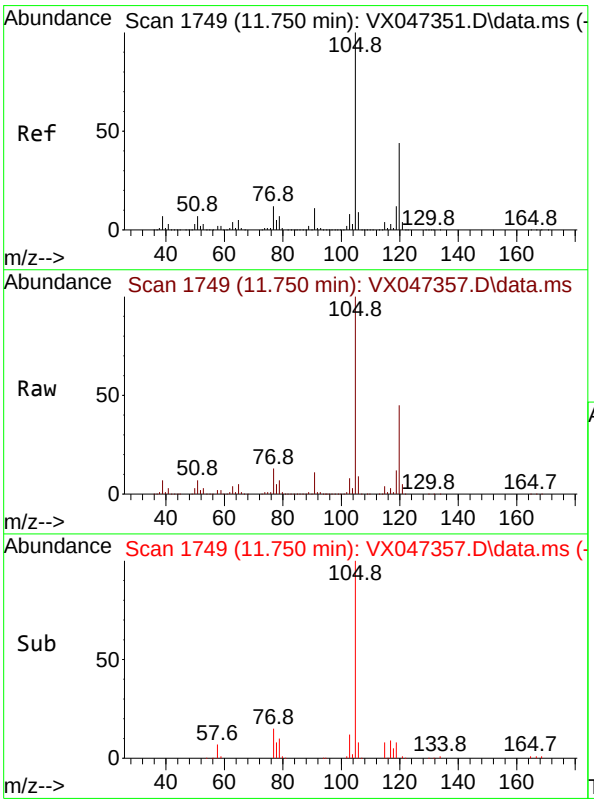
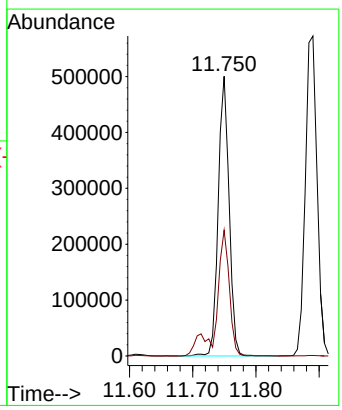
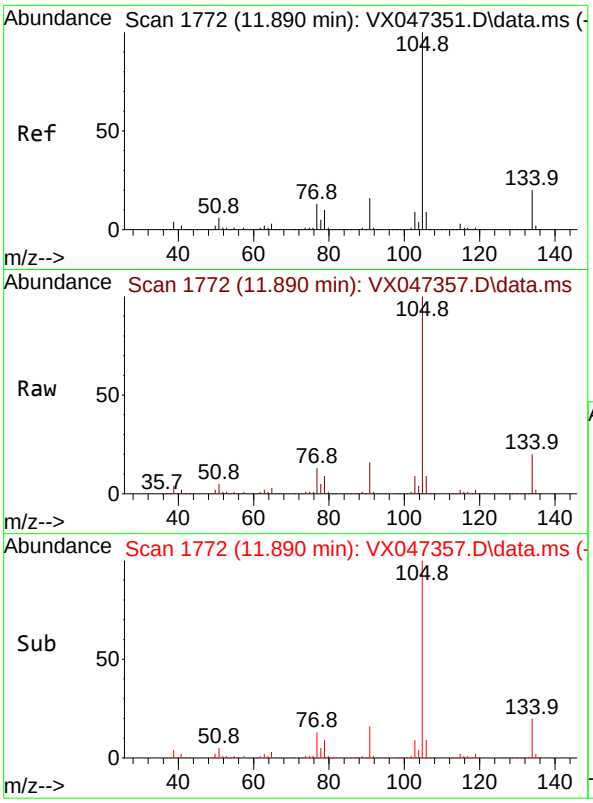


#84
1,2,4-Trimethylbenzene
Concen: 49.796 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:105 Resp: 595697

Ion	Ratio	Lower	Upper
105	100		
120	43.1	21.9	65.7

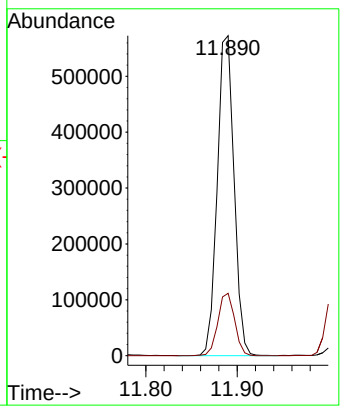




#85
sec-Butylbenzene
Concen: 49.507 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:105 Resp: 73232

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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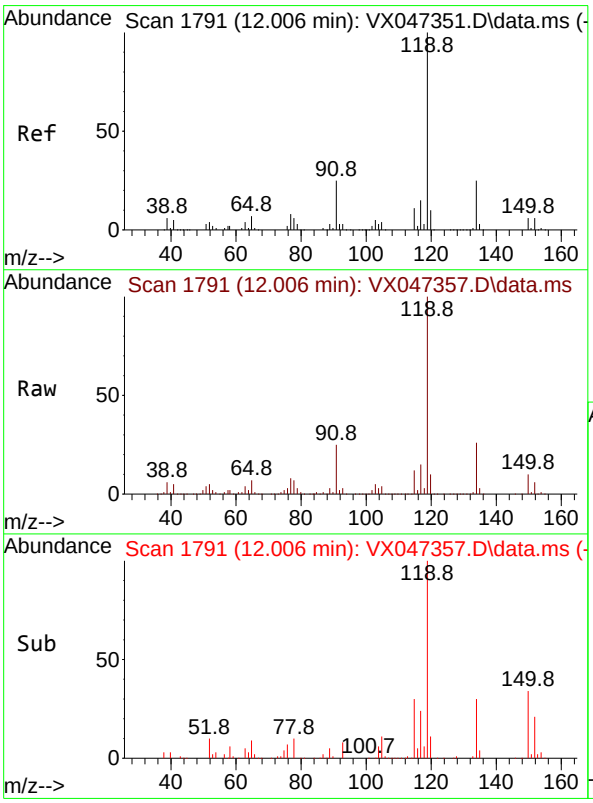
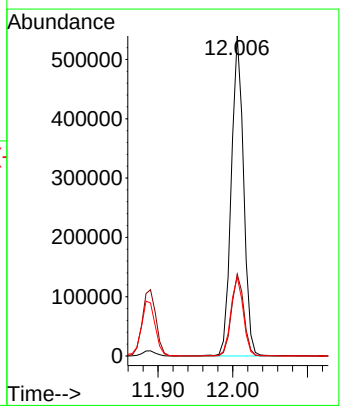
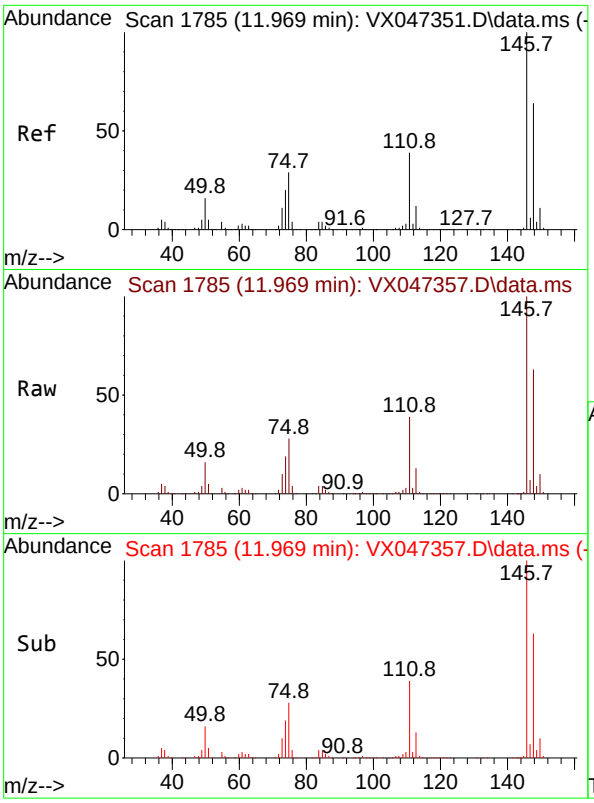


#86
p-Isopropyltoluene
Concen: 49.332 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:119 Resp: 617508

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.8	38.4
91	25.0	12.4	37.4

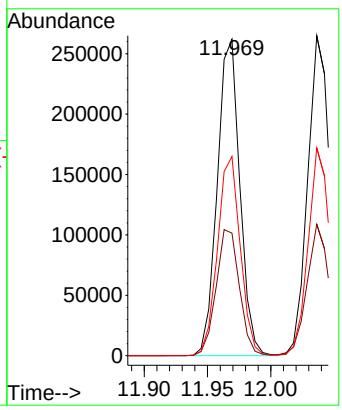




#87
1,3-Dichlorobenzene
Concen: 47.926 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:146 Resp: 32505

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.6	61.8
148	63.4	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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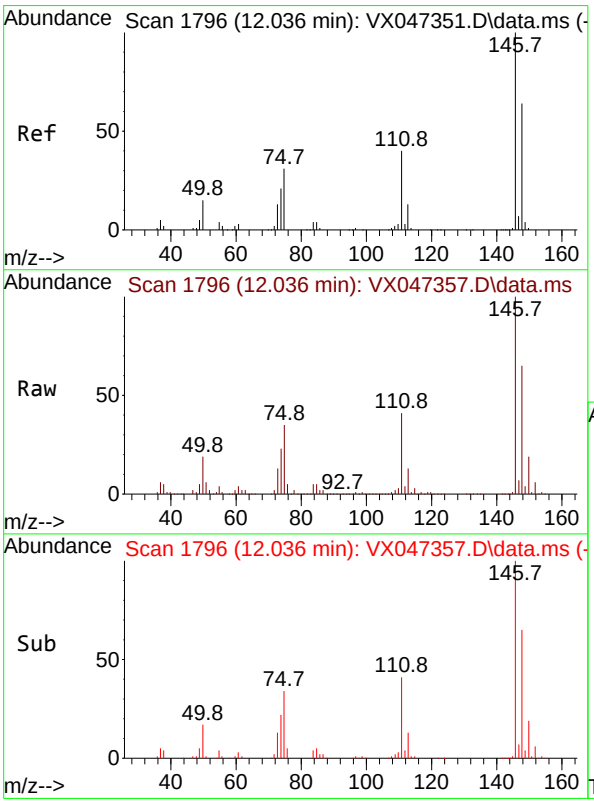
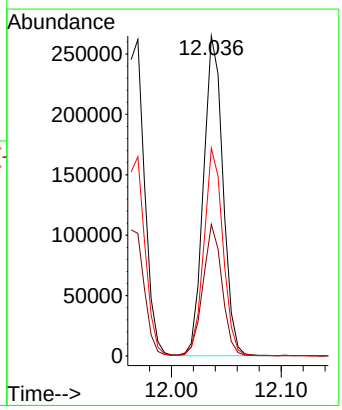
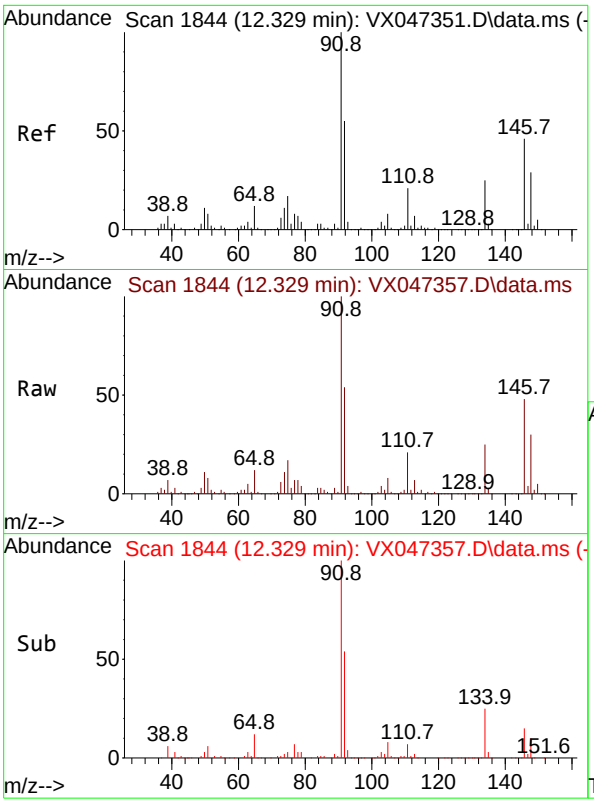


#88
1,4-Dichlorobenzene
Concen: 46.752 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:146 Resp: 326132

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.4	61.2
148	63.8	31.7	95.1

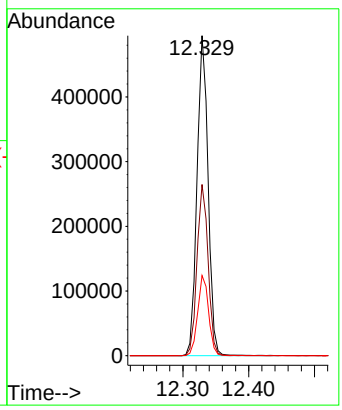




#89
n-Butylbenzene
Concen: 49.556 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 91 Resp: 57696

Ion	Ratio	Lower	Upper
91	100		
92	53.7	27.2	81.5
134	24.9	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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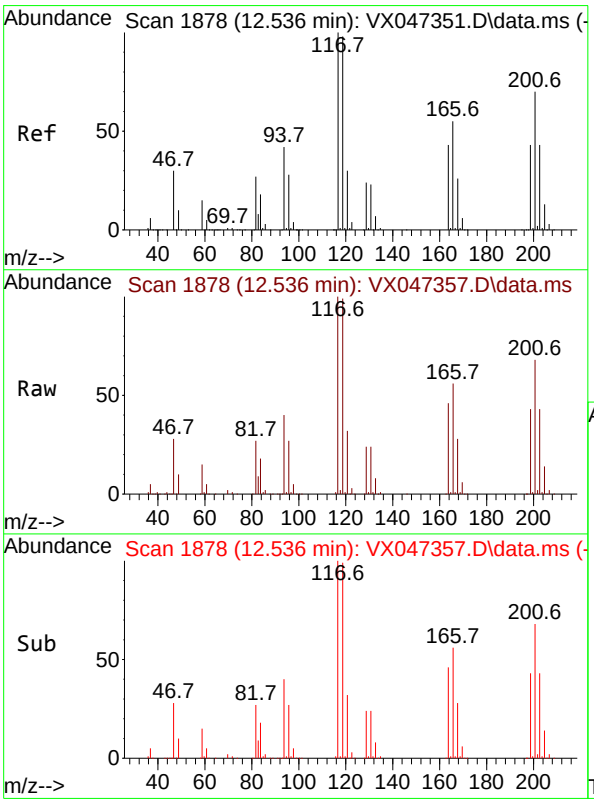
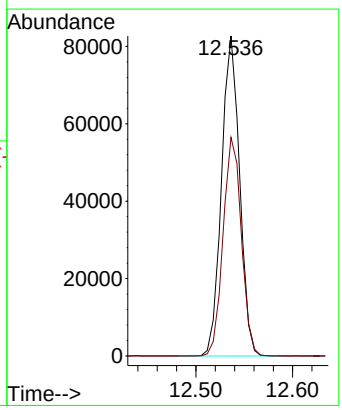
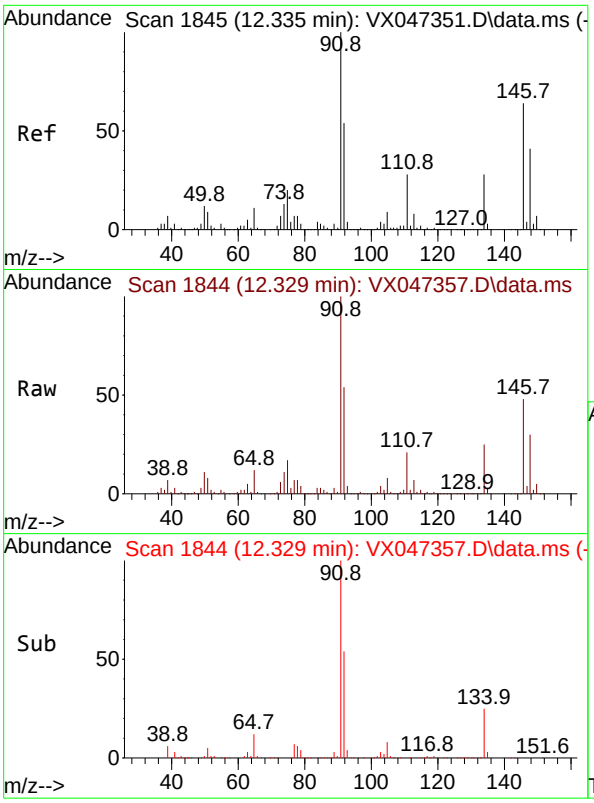


#90
Hexachloroethane
Concen: 48.749 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:117 Resp: 107051

Ion	Ratio	Lower	Upper
117	100		
201	69.1	35.1	105.3

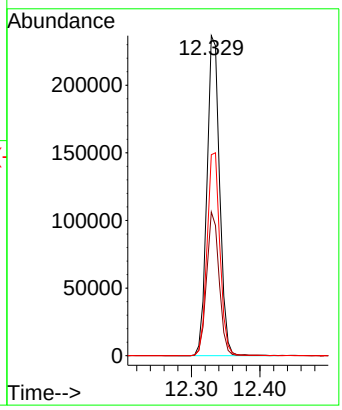




#91
1,2-Dichlorobenzene
Concen: 47.283 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:146 Resp: 30439

Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.1	66.1
148	64.4	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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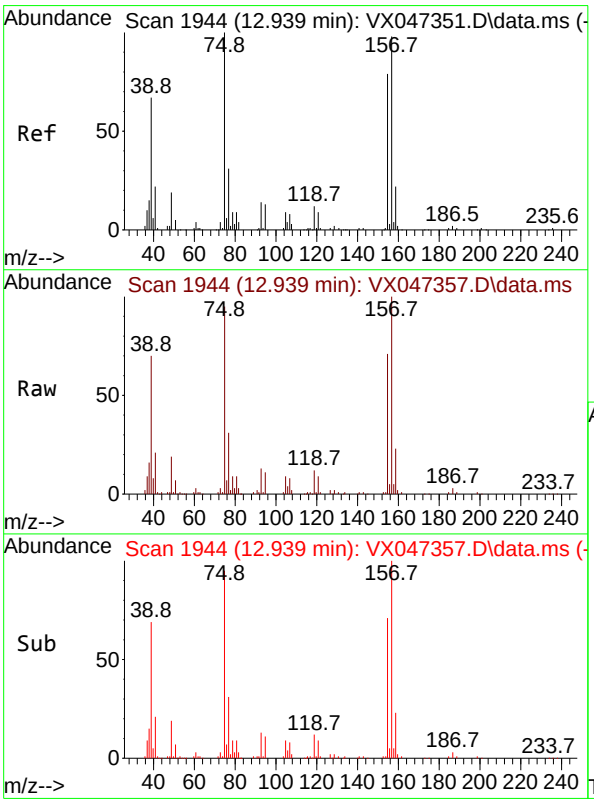
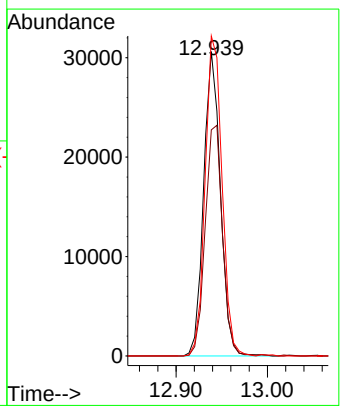
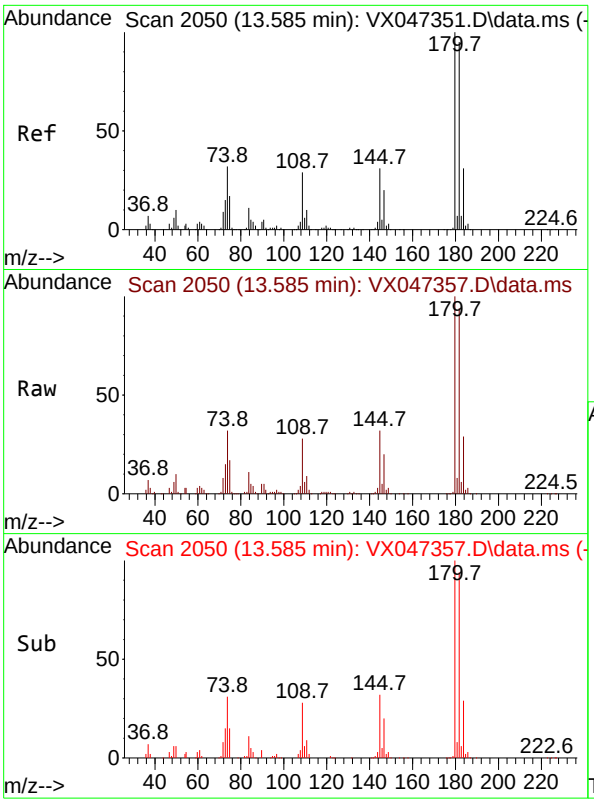


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.135 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 75 Resp: 38911

Ion	Ratio	Lower	Upper
75	100		
155	78.6	41.3	123.7
157	106.0	51.5	154.5

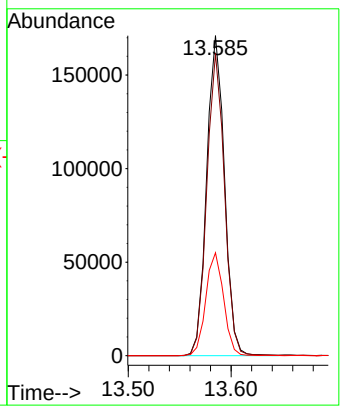




#93
1,2,4-Trichlorobenzene
Concen: 47.926 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:180 Resp: 20683

Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.1	144.4
145	32.2	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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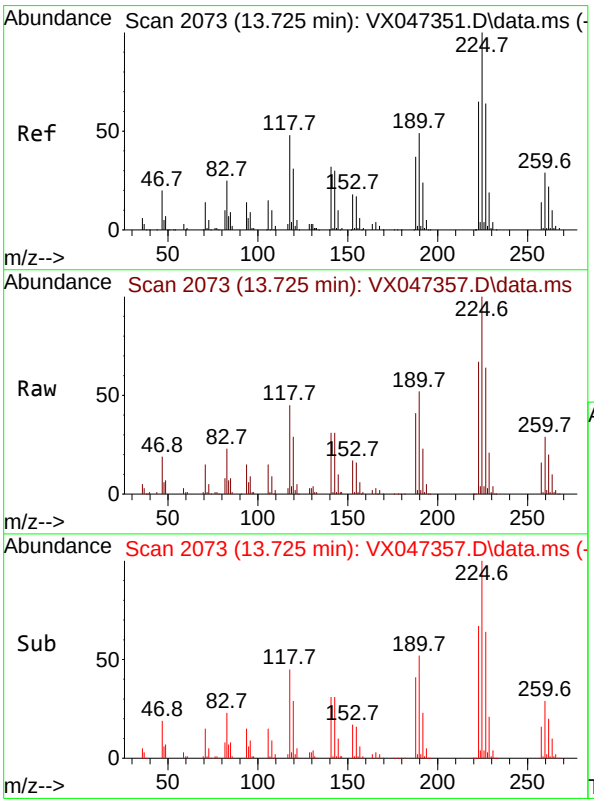
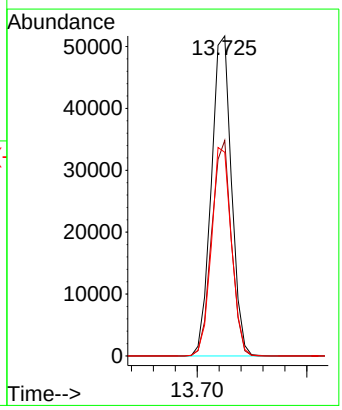
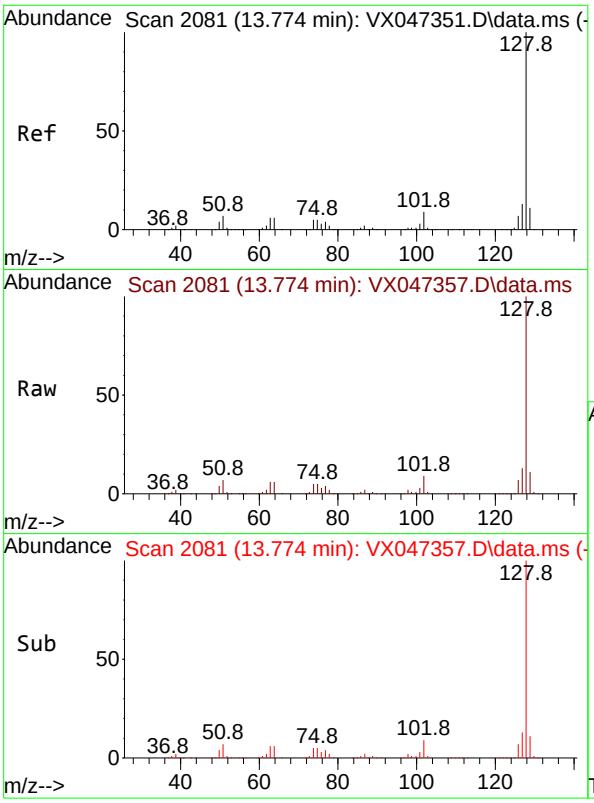


#94
Hexachlorobutadiene
Concen: 42.967 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:225 Resp: 66005

Ion	Ratio	Lower	Upper
225	100		
223	65.6	32.2	96.6
227	64.6	31.6	95.0

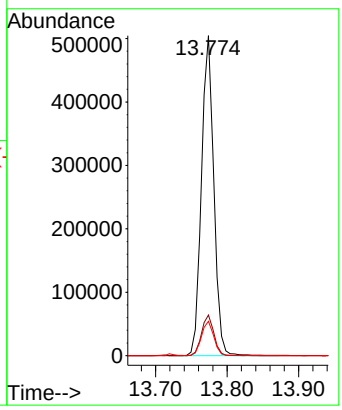




#95
Naphthalene
Concen: 49.026 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:128 Resp: 60465

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	10.8	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

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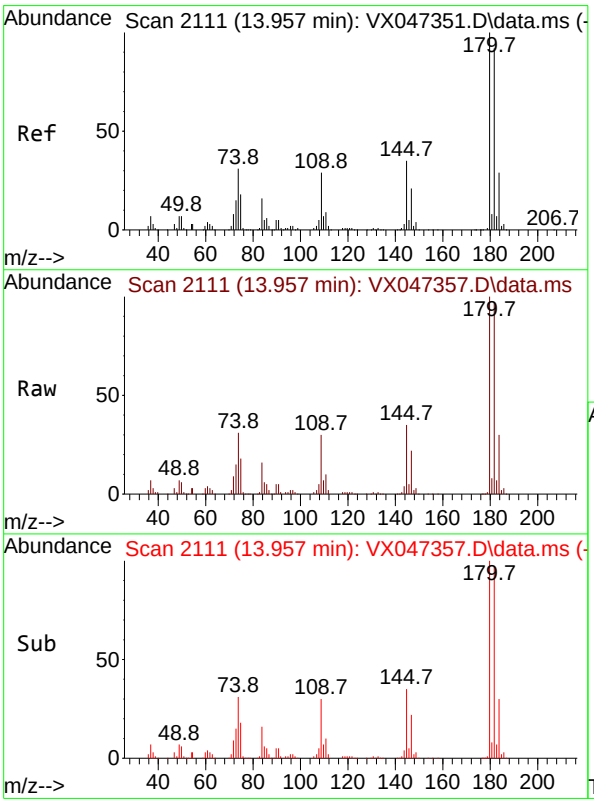
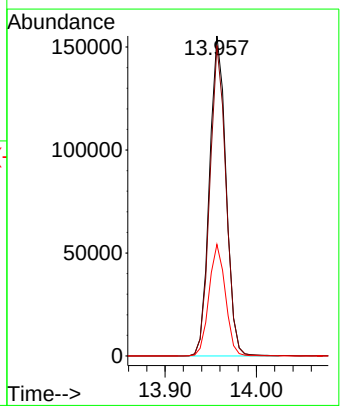


#96
1,2,3-Trichlorobenzene
Concen: 47.822 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:180 Resp: 194540

Ion	Ratio	Lower	Upper
180	100		
182	95.1	48.0	144.2
145	34.6	17.4	52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	105	-0.01
2	T	Dichlorodifluoromethane	0.637	0.663	-4.1	95	0.00
3	P	Chloromethane	0.573	0.573	0.0	97	0.00
4	C	Vinyl Chloride	0.720	0.732	-1.7#	96	0.00
5	T	Bromomethane	0.291	0.326	-12.0	102	0.00
6	T	Chloroethane	0.440	0.435	1.1	99	0.00
7	T	Trichlorofluoromethane	1.065	1.062	0.3	94	0.00
8	T	Diethyl Ether	0.375	0.376	-0.3	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.618	0.619	-0.2	93	0.00
10	T	Methyl Iodide	1.058	0.950	10.2	86	0.00
11	T	Tert butyl alcohol	0.061	0.056	8.2	86	0.00
12	CM	1,1-Dichloroethene	0.630	0.634	-0.6#	96	0.00
13	T	Acrolein	0.129	0.106	17.8	85	0.00
14	T	Allyl chloride	1.093	1.083	0.9	94	0.00
15	T	Acrylonitrile	0.294	0.294	0.0	91	0.00
16	T	Acetone	0.263	0.259	1.5	97	0.00
17	T	Carbon Disulfide	1.900	1.825	3.9	96	0.00
18	T	Methyl Acetate	0.682	0.651	4.5	89	0.00
19	T	Methyl tert-butyl Ether	1.915	1.918	-0.2	93	0.00
20	T	Methylene Chloride	0.697	0.693	0.6	96	0.00
21	T	trans-1,2-Dichloroethene	0.668	0.660	1.2	96	0.00
22	T	Diisopropyl ether	2.161	2.220	-2.7	95	0.00
23	T	Vinyl Acetate	1.772	1.805	-1.9	93	0.00
24	P	1,1-Dichloroethane	1.222	1.212	0.8	94	0.00
25	T	2-Butanone	0.344	0.336	2.3	91	0.00
26	T	2,2-Dichloropropane	0.922	0.926	-0.4	96	-0.01
27	T	cis-1,2-Dichloroethene	0.778	0.771	0.9	96	0.00
28	T	Bromochloromethane	0.508	0.581	-14.4	113	0.00
29	T	Tetrahydrofuran	0.223	0.214	4.0	92	0.00
30	C	Chloroform	1.247	1.223	1.9#	94	0.00
31	T	Cyclohexane	1.126	1.060	5.9	92	0.00
32	T	1,1,1-Trichloroethane	1.073	1.052	2.0	92	0.00
33	S	1,2-Dichloroethane-d4	0.700	0.766	-9.4	115	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35	S	Dibromofluoromethane	0.325	0.360	-10.8	115	0.00
36	T	1,1-Dichloropropene	0.512	0.488	4.7	91	0.00
37	T	Ethyl Acetate	0.532	0.502	5.6	90	0.00
38	T	Carbon Tetrachloride	0.560	0.531	5.2	92	0.00
39	T	Methylcyclohexane	0.639	0.602	5.8	91	-0.01
40	TM	Benzene	1.533	1.493	2.6	92	0.00
41	T	Methacrylonitrile	0.224	0.219	2.2	89	0.00
42	TM	1,2-Dichloroethane	0.543	0.529	2.6	93	-0.01
43	T	Isopropyl Acetate	0.764	0.745	2.5	90	0.00
44	TM	Trichloroethene	0.393	0.377	4.1	92	0.00
45	C	1,2-Dichloropropane	0.384	0.375	2.3#	94	0.00
46	T	Dibromomethane	0.279	0.271	2.9	94	0.00
47	T	Bromodichloromethane	0.578	0.556	3.8	92	0.00
48	T	Methyl methacrylate	0.397	0.385	3.0	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	0.003	25.0	81	0.00
50	S	Toluene-d8	1.160	1.263	-8.9	114	0.00
51	T	4-Methyl-2-Pentanone	0.440	0.429	2.5	89	0.00
52	CM	Toluene	0.947	0.923	2.5#	92	0.00
53	T	t-1,3-Dichloropropene	0.505	0.512	-1.4	92	0.00
54	T	cis-1,3-Dichloropropene	0.571	0.571	0.0	94	0.00
55	T	1,1,2-Trichloroethane	0.360	0.348	3.3	93	0.00
56	T	Ethyl methacrylate	0.530	0.532	-0.4	91	0.00
57	T	1,3-Dichloropropane	0.613	0.592	3.4	93	0.00
58	T	2-Chloroethyl Vinyl ether	0.211	0.225	-6.6	86	0.00
59	T	2-Hexanone	0.304	0.295	3.0	90	0.00
60	T	Dibromochloromethane	0.428	0.411	4.0	93	0.00
61	T	1,2-Dibromoethane	0.371	0.356	4.0	92	0.00
62	S	4-Bromofluorobenzene	0.428	0.468	-9.3	115	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64	T	Tetrachloroethene	0.362	0.346	4.4	91	0.00
65	PM	Chlorobenzene	1.188	1.134	4.5	92	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.386	4.0	91	0.00
67	C	Ethyl Benzene	2.045	1.997	2.3#	92	0.00
68	T	m/p-Xylenes	0.763	0.753	1.3	92	0.00
69	T	o-Xylene	0.734	0.722	1.6	93	0.00
70	T	Styrene	1.240	1.244	-0.3	92	0.00
71	P	Bromoform	0.302	0.292	3.3	91	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73	T	Isopropylbenzene	3.913	3.868	1.2	92	0.00
74	T	N-amyl acetate	1.486	1.492	-0.4	90	0.00
75	P	1,1,2,2-Tetrachloroethane	1.149	1.105	3.8	91	0.00
76	T	1,2,3-Trichloropropane	0.917	0.879	4.1	91	0.00
77	T	Bromobenzene	0.955	0.926	3.0	92	0.00
78	T	n-propylbenzene	4.673	4.612	1.3	93	0.00
79	T	2-Chlorotoluene	2.825	2.725	3.5	92	0.00
80	T	1,3,5-Trimethylbenzene	3.219	3.156	2.0	92	0.00
81	T	trans-1,4-Dichloro-2-butene	0.178	0.174	2.2	92	0.00
82	T	4-Chlorotoluene	3.330	3.189	4.2	92	0.00
83	T	tert-Butylbenzene	3.212	3.202	0.3	93	0.00
84	T	1,2,4-Trimethylbenzene	3.219	3.206	0.4	92	0.00
85	T	sec-Butylbenzene	3.981	3.942	1.0	93	0.00
86	T	p-Isopropyltoluene	3.369	3.324	1.3	93	0.00
87	T	1,3-Dichlorobenzene	1.825	1.750	4.1	92	0.00
88	T	1,4-Dichlorobenzene	1.877	1.755	6.5	93	0.00
89	T	n-Butylbenzene	3.133	3.105	0.9	94	0.00
90	T	Hexachloroethane	0.591	0.576	2.5	92	0.00
91	T	1,2-Dichlorobenzene	1.733	1.638	5.5	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.222	0.209	5.9	89	0.00
93	T	1,2,4-Trichlorobenzene	1.161	1.113	4.1	95	0.00
94	T	Hexachlorobutadiene	0.413	0.355	14.0	92	0.00
95	T	Naphthalene	3.319	3.254	2.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1.095	1.047	4.4	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	105	-0.01
2	T	Dichlorodifluoromethane	50.000	51.981	-4.0	95	0.00
3	P	Chloromethane	50.000	49.973	0.1	97	0.00
4	C	Vinyl Chloride	50.000	50.822	-1.6#	96	0.00
5	T	Bromomethane	50.000	56.066	-12.1	102	0.00
6	T	Chloroethane	50.000	49.421	1.2	99	0.00
7	T	Trichlorofluoromethane	50.000	49.898	0.2	94	0.00
8	T	Diethyl Ether	50.000	50.132	-0.3	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.154	-0.3	93	0.00
10	T	Methyl Iodide	50.000	44.887	10.2	86	0.00
11	T	Tert butyl alcohol	250.000	229.494	8.2	86	0.00
12	CM	1,1-Dichloroethene	50.000	50.316	-0.6#	96	0.00
13	T	Acrolein	250.000	207.171	17.1	85	0.00
14	T	Allyl chloride	50.000	49.503	1.0	94	0.00
15	T	Acrylonitrile	250.000	250.094	-0.0	91	0.00
16	T	Acetone	250.000	246.195	1.5	97	0.00
17	T	Carbon Disulfide	50.000	48.034	3.9	96	0.00
18	T	Methyl Acetate	50.000	47.774	4.5	89	0.00
19	T	Methyl tert-butyl Ether	50.000	50.072	-0.1	93	0.00
20	T	Methylene Chloride	50.000	49.724	0.6	96	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.352	1.3	96	0.00
22	T	Diisopropyl ether	50.000	51.358	-2.7	95	0.00
23	T	Vinyl Acetate	250.000	254.755	-1.9	93	0.00
24	P	1,1-Dichloroethane	50.000	49.586	0.8	94	0.00
25	T	2-Butanone	250.000	244.186	2.3	91	0.00
26	T	2,2-Dichloropropane	50.000	50.188	-0.4	96	-0.01
27	T	cis-1,2-Dichloroethene	50.000	49.507	1.0	96	0.00
28	T	Bromochloromethane	50.000	57.153	-14.3	113	0.00
29	T	Tetrahydrofuran	250.000	240.659	3.7	92	0.00
30	C	Chloroform	50.000	49.055	1.9#	94	0.00
31	T	Cyclohexane	50.000	47.066	5.9	92	0.00
32	T	1,1,1-Trichloroethane	50.000	49.018	2.0	92	0.00
33	S	1,2-Dichloroethane-d4	50.000	54.750	-9.5	115	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35	S	Dibromofluoromethane	50.000	55.488	-11.0	115	0.00
36	T	1,1-Dichloropropene	50.000	47.627	4.7	91	0.00
37	T	Ethyl Acetate	50.000	47.213	5.6	90	0.00
38	T	Carbon Tetrachloride	50.000	47.393	5.2	92	0.00
39	T	Methylcyclohexane	50.000	47.074	5.9	91	-0.01
40	TM	Benzene	50.000	48.672	2.7	92	0.00
41	T	Methacrylonitrile	50.000	48.768	2.5	89	0.00
42	TM	1,2-Dichloroethane	50.000	48.708	2.6	93	-0.01
43	T	Isopropyl Acetate	50.000	48.740	2.5	90	0.00
44	TM	Trichloroethene	50.000	47.974	4.1	92	0.00
45	C	1,2-Dichloropropane	50.000	48.760	2.5#	94	0.00
46	T	Dibromomethane	50.000	48.500	3.0	94	0.00
47	T	Bromodichloromethane	50.000	48.121	3.8	92	0.00
48	T	Methyl methacrylate	50.000	48.604	2.8	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	890.740	10.9	81	0.00
50	S	Toluene-d8	50.000	54.448	-8.9	114	0.00
51	T	4-Methyl-2-Pentanone	250.000	243.797	2.5	89	0.00
52	CM	Toluene	50.000	48.706	2.6#	92	0.00
53	T	t-1,3-Dichloropropene	50.000	50.716	-1.4	92	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.956	0.1	94	0.00
55	T	1,1,2-Trichloroethane	50.000	48.385	3.2	93	0.00
56	T	Ethyl methacrylate	50.000	50.140	-0.3	91	0.00
57	T	1,3-Dichloropropane	50.000	48.290	3.4	93	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	222.770	10.9	86	0.00
59	T	2-Hexanone	250.000	242.481	3.0	90	0.00
60	T	Dibromochloromethane	50.000	48.122	3.8	93	0.00
61	T	1,2-Dibromoethane	50.000	47.971	4.1	92	0.00
62	S	4-Bromofluorobenzene	50.000	54.723	-9.4	115	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64	T	Tetrachloroethene	50.000	47.871	4.3	91	0.00
65	PM	Chlorobenzene	50.000	47.724	4.6	92	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.099	3.8	91	0.00
67	C	Ethyl Benzene	50.000	48.829	2.3#	92	0.00
68	T	m/p-Xylenes	100.000	98.705	1.3	92	0.00
69	T	o-Xylene	50.000	49.223	1.6	93	0.00
70	T	Styrene	50.000	50.176	-0.4	92	0.00
71	P	Bromoform	50.000	48.446	3.1	91	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73	T	Isopropylbenzene	50.000	49.432	1.1	92	0.00
74	T	N-amyl acetate	50.000	50.217	-0.4	90	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.087	3.8	91	0.00
76	T	1,2,3-Trichloropropane	50.000	47.911	4.2	91	0.00
77	T	Bromobenzene	50.000	48.465	3.1	92	0.00
78	T	n-propylbenzene	50.000	49.351	1.3	93	0.00
79	T	2-Chlorotoluene	50.000	48.241	3.5	92	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.013	2.0	92	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	42.686	14.6	92	0.00
82	T	4-Chlorotoluene	50.000	47.889	4.2	92	0.00
83	T	tert-Butylbenzene	50.000	49.841	0.3	93	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.796	0.4	92	0.00
85	T	sec-Butylbenzene	50.000	49.507	1.0	93	0.00
86	T	p-Isopropyltoluene	50.000	49.332	1.3	93	0.00
87	T	1,3-Dichlorobenzene	50.000	47.926	4.1	92	0.00
88	T	1,4-Dichlorobenzene	50.000	46.752	6.5	93	0.00
89	T	n-Butylbenzene	50.000	49.556	0.9	94	0.00
90	T	Hexachloroethane	50.000	48.749	2.5	92	0.00
91	T	1,2-Dichlorobenzene	50.000	47.283	5.4	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.135	5.7	89	0.00
93	T	1,2,4-Trichlorobenzene	50.000	47.926	4.1	95	0.00
94	T	Hexachlorobutadiene	50.000	42.967	14.1	92	0.00
95	T	Naphthalene	50.000	49.026	1.9	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	47.822	4.4	93	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:	FIRS02
Lab Code:	ACE	SDG No.:	Q2815
Instrument ID:	MSVOA_X	Calibration Date/Time:	08/13/2025 09:44
Lab File ID:	VX047309.D	Init. Calib. Date(s):	07/21/2025 07/21/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:47 11:32

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.664	0.684		3.01	20
Chloromethane	0.657	0.610	0.1	-7.15	20
Vinyl Chloride	0.706	0.722		2.27	20
Bromomethane	0.384	0.390		1.56	20
Chloroethane	0.464	0.440		-5.17	20
Trichlorofluoromethane	1.053	1.065		1.14	20
1,1,2-Trichlorotrifluoroethane	0.634	0.626		-1.26	20
1,1-Dichloroethene	0.628	0.628		0	20
Acetone	0.250	0.291		16.4	20
Carbon Disulfide	1.818	1.715		-5.67	20
Methyl tert-butyl Ether	1.912	2.118		10.77	20
Methyl Acetate	0.663	0.813		22.62	20
Methylene Chloride	0.686	0.714		4.08	20
trans-1,2-Dichloroethene	0.643	0.659		2.49	20
1,1-Dichloroethane	1.214	1.233	0.1	1.57	20
Cyclohexane	1.164	1.079		-7.3	20
2-Butanone	0.363	0.375		3.31	20
Carbon Tetrachloride	0.562	0.542		-3.56	20
cis-1,2-Dichloroethene	0.761	0.797		4.73	20
Bromochloromethane	0.559	0.601		7.51	20
Chloroform	1.236	1.275		3.15	20
1,1,1-Trichloroethane	1.074	1.081		0.65	20
Methylcyclohexane	0.657	0.604		-8.07	20
Benzene	1.523	1.554		2.04	20
1,2-Dichloroethane	0.536	0.577		7.65	20
Trichloroethene	0.391	0.389		-0.51	20
1,2-Dichloropropane	0.381	0.396		3.94	20
Bromodichloromethane	0.569	0.606		6.5	20
4-Methyl-2-Pentanone	0.449	0.493		9.8	20
Toluene	0.936	0.966		3.2	20
t-1,3-Dichloropropene	0.538	0.562		4.46	20
cis-1,3-Dichloropropene	0.588	0.617		4.93	20
1,1,2-Trichloroethane	0.351	0.384		9.4	20
2-Hexanone	0.297	0.345		16.16	20
Dibromochloromethane	0.412	0.448		8.74	20
1,2-Dibromoethane	0.367	0.399		8.72	20
Tetrachloroethene	0.360	0.349		-3.06	20
Chlorobenzene	1.171	1.184	0.3	1.11	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: FIRS02
Lab Code: ACE
SDG No.: Q2815
Instrument ID: MSVOA_X
Calibration Date/Time: 08/13/2025 09:44
Lab File ID: VX047309.D
Init. Calib. Date(s): 07/21/2025 07/21/2025
Heated Purge: (Y/N) N
Init. Calib. Time(s): 09:47 11:32
GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.048	2.053		0.24	20
m/p-Xylenes	0.766	0.773		0.91	20
o-Xylene	0.729	0.745		2.19	20
Styrene	1.250	1.297		3.76	20
Bromoform	0.300	0.324	0.1	8	20
Isopropylbenzene	3.945	3.857		-2.23	20
1,1,2,2-Tetrachloroethane	1.127	1.184	0.3	5.06	20
1,3-Dichlorobenzene	1.798	1.804		0.33	20
1,4-Dichlorobenzene	1.821	1.773		-2.64	20
1,2-Dichlorobenzene	1.718	1.708		-0.58	20
1,2-Dibromo-3-Chloropropane	0.216	0.232		7.41	20
1,2,4-Trichlorobenzene	1.135	1.133		-0.18	20
1,2,3-Trichlorobenzene	1.094	1.081		-1.19	20
1,2-Dichloroethane-d4	0.623	0.607		-2.57	20
Dibromofluoromethane	0.309	0.319		3.24	20
Toluene-d8	1.000	0.880		-12	20
4-Bromofluorobenzene	0.431	0.428		-0.7	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\VX081325\
Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	202458	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	343367	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	311895	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	156059	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	122913	48.737	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 97.480%			
35) Dibromofluoromethane	5.391	113	109453	51.627	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.260%			
50) Toluene-d8	8.647	98	302023	43.990	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 87.980%#			
62) 4-Bromofluorobenzene	11.079	95	146951	49.666	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.340%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	138397	51.465	ug/l	99
3) Chloromethane	1.313	50	123447	46.408	ug/l	97
4) Vinyl Chloride	1.392	62	146166	51.117	ug/l	100
5) Bromomethane	1.624	94	78964	50.837	ug/l	99
6) Chloroethane	1.703	64	89071	47.427	ug/l	99
7) Trichlorofluoromethane	1.904	101	215625	50.571	ug/l	99
8) Diethyl Ether	2.148	74	81402	54.146	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.343	101	126773	49.350	ug/l	98
10) Methyl Iodide	2.465	142	219512	83.845	ug/l	100
11) Tert butyl alcohol	2.965	59	78261	266.119	ug/l	100
12) 1,1-Dichloroethene	2.331	96	127051	49.935	ug/l	98
13) Acrolein	2.245	56	211272	389.062	ug/l	99
14) Allyl chloride	2.678	41	227152	49.389	ug/l	97
15) Acrylonitrile	3.074	53	336877	280.076	ug/l	98
16) Acetone	2.386	43	294865	291.855	ug/l	100
17) Carbon Disulfide	2.526	76	347209	47.171	ug/l	98
18) Methyl Acetate	2.709	43	164668	61.331	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	428882	55.387	ug/l	99
20) Methylene Chloride	2.800	84	144651	52.043	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	133319	51.205	ug/l	98
22) Diisopropyl ether	3.769	45	474294	53.638	ug/l	93
23) Vinyl Acetate	3.727	43	1966349	277.255	ug/l	100
24) 1,1-Dichloroethane	3.617	63	249579	50.758	ug/l	98
25) 2-Butanone	4.562	43	379836	258.198	ug/l	97
26) 2,2-Dichloropropane	4.483	77	191107	50.208	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	161308	52.320	ug/l	98
28) Bromochloromethane	4.903	49	121750	53.820	ug/l	98
29) Tetrahydrofuran	5.013	42	237647	250.372	ug/l	99
30) Chloroform	5.099	83	258046	51.555	ug/l	98
31) Cyclohexane	5.476	56	218449	46.334	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	218773	50.322	ug/l	100
36) 1,1-Dichloropropene	5.702	75	174512	48.290	ug/l	99
37) Ethyl Acetate	4.721	43	192890	57.925	ug/l	96
38) Carbon Tetrachloride	5.684	117	186156	48.263	ug/l	99
39) Methylcyclohexane	7.379	83	207402	45.966	ug/l	99
40) Benzene	6.043	78	533739	51.034	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	89952	51.663	ug/l		95
42) 1,2-Dichloroethane	6.092	62	198218	53.804	ug/l		99
43) Isopropyl Acetate	6.342	43	287722	55.423	ug/l		98
44) Trichloroethene	7.129	130	133465	49.765	ug/l		99
45) 1,2-Dichloropropane	7.427	63	135914	51.888	ug/l		97
46) Dibromomethane	7.580	93	101172	55.078	ug/l		100
47) Bromodichloromethane	7.818	83	208211	53.254	ug/l		98
48) Methyl methacrylate	7.696	41	149404	52.829	ug/l		98
49) 1,4-Dioxane	7.677	88	33534	1042.543	ug/l		94
51) 4-Methyl-2-Pentanone	8.573	43	845831	274.116	ug/l		99
52) Toluene	8.720	92	331807	51.598	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	192983	52.270	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	211833	52.423	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	131934	54.707	ug/l		98
56) Ethyl methacrylate	9.116	69	202090	56.604	ug/l		99
57) 1,3-Dichloropropane	9.305	76	225882	53.892	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	507677	255.533	ug/l		100
59) 2-Hexanone	9.427	43	591849	290.316	ug/l		100
60) Dibromochloromethane	9.518	129	153681	54.334	ug/l		100
61) 1,2-Dibromoethane	9.610	107	136881	54.281	ug/l		98
64) Tetrachloroethene	9.275	164	108938	48.451	ug/l		98
65) Chlorobenzene	10.079	112	369251	50.536	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	130021	52.854	ug/l		98
67) Ethyl Benzene	10.189	91	640387	50.127	ug/l		100
68) m/p-Xylenes	10.299	106	481905	100.800	ug/l		100
69) o-Xylene	10.640	106	232501	51.121	ug/l		100
70) Styrene	10.652	104	404384	51.852	ug/l		100
71) Bromoform	10.799	173	101111	54.108	ug/l	#	99
73) Isopropylbenzene	10.957	105	601920	48.889	ug/l		100
74) N-amyl acetate	10.841	43	253569	51.043	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	184802	52.547	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	148834m	51.525	ug/l		
77) Bromobenzene	11.195	156	149595	50.657	ug/l		98
78) n-propylbenzene	11.299	91	717788	48.787	ug/l		99
79) 2-Chlorotoluene	11.360	91	429105	48.791	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	502646	49.416	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	30072	26.822	ug/l		98
82) 4-Chlorotoluene	11.451	91	509422	49.625	ug/l		99
83) tert-Butylbenzene	11.713	119	499240	48.901	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	503767	49.654	ug/l		100
85) sec-Butylbenzene	11.890	105	607529	47.627	ug/l		99
86) p-Isopropyltoluene	12.006	119	513359	48.530	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	281606	50.187	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	276736	48.680	ug/l		99
89) n-Butylbenzene	12.329	91	467854	47.162	ug/l		99
90) Hexachloroethane	12.536	117	92640	48.954	ug/l		98
91) 1,2-Dichlorobenzene	12.329	146	266592	49.711	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	36183	53.598	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	176813	49.902	ug/l		99
94) Hexachlorobutadiene	13.719	225	56288	46.711	ug/l		99
95) Naphthalene	13.774	128	537872	51.782	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	168763	49.440	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

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

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

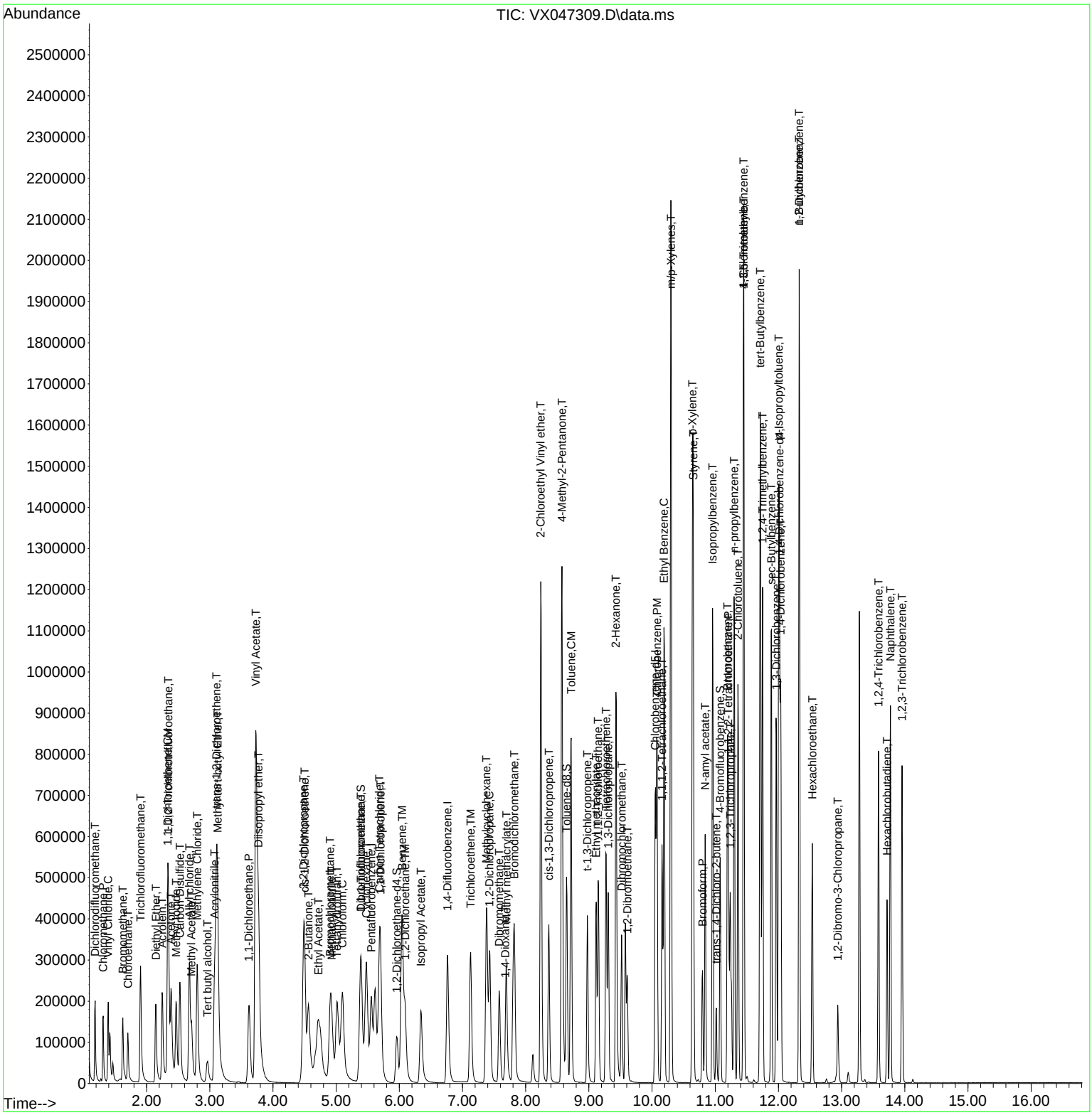
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

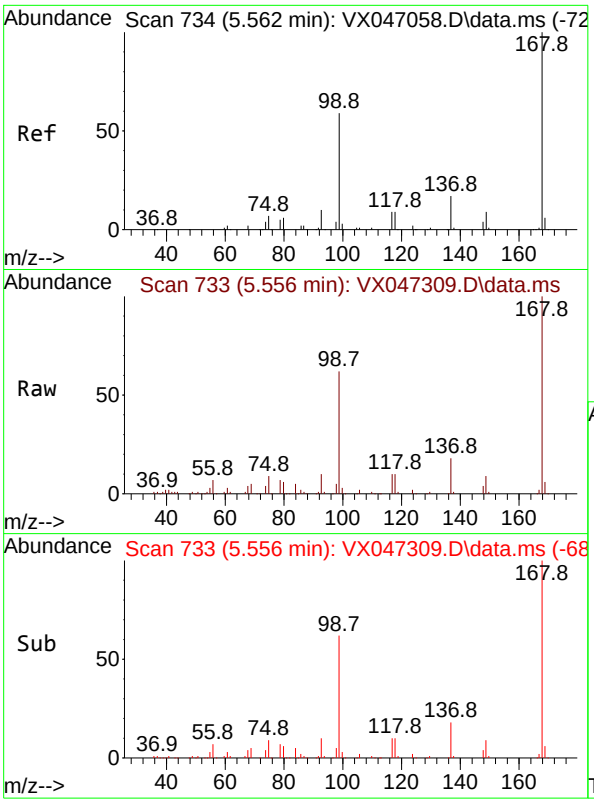
Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

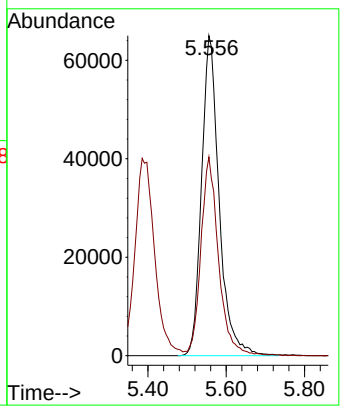




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:168 Resp: 20245

Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.0	72.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/14/2025
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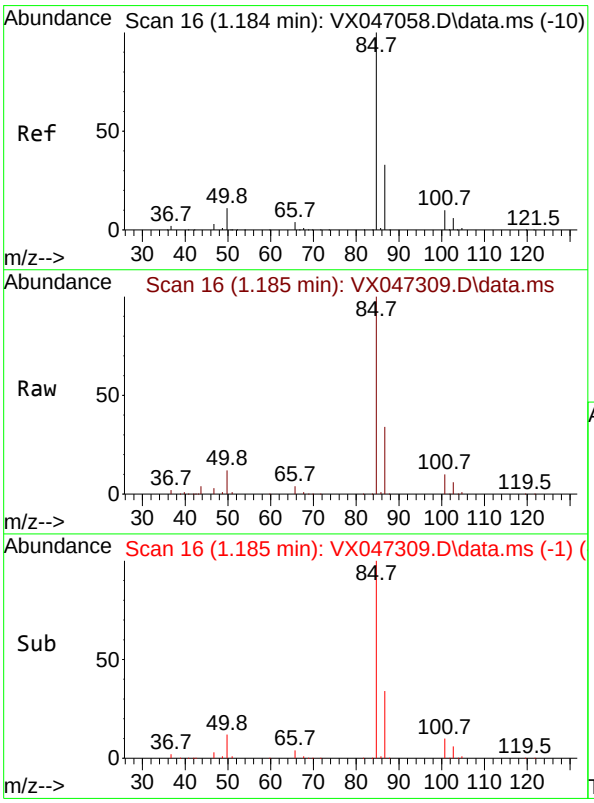
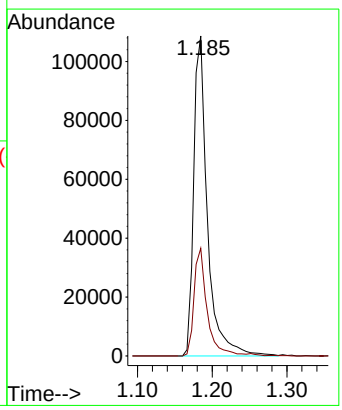
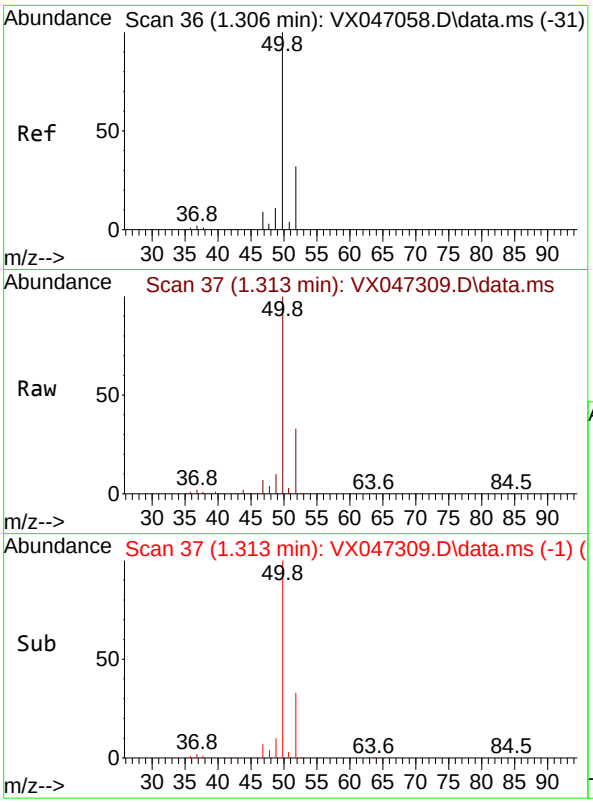


#2
Dichlorodifluoromethane
Concen: 51.465 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 85 Resp: 138397

Ion	Ratio	Lower	Upper
85	100		
87	33.6	16.6	49.8

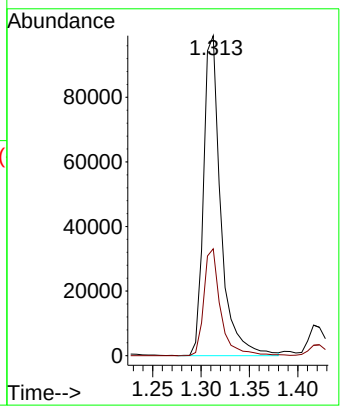




#3
Chloromethane
Concen: 46.408 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 50 Resp: 12344

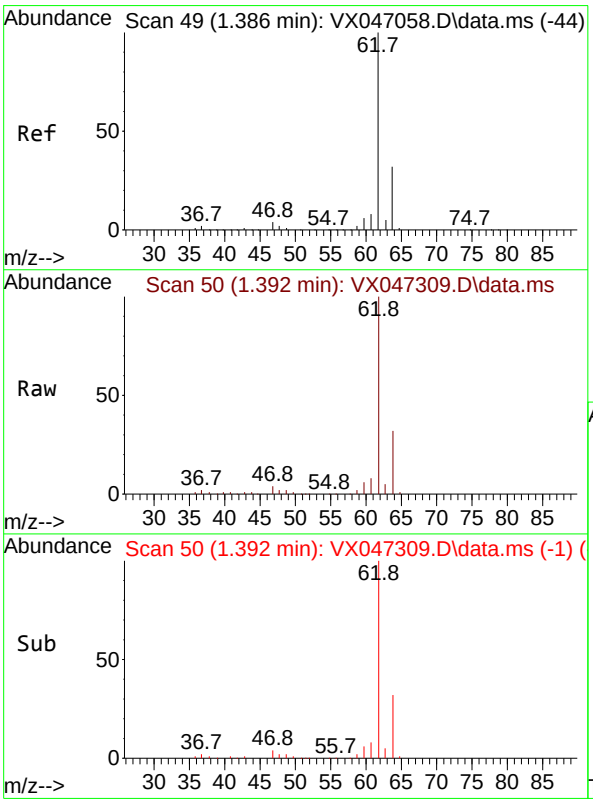
Ion	Ratio	Lower	Upper
50	100		
52	33.4	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

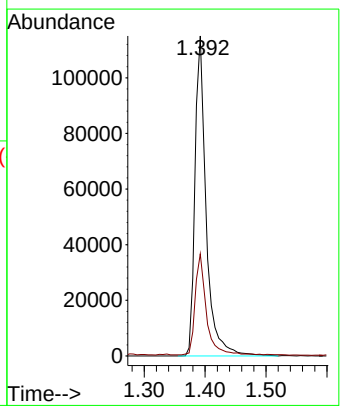
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

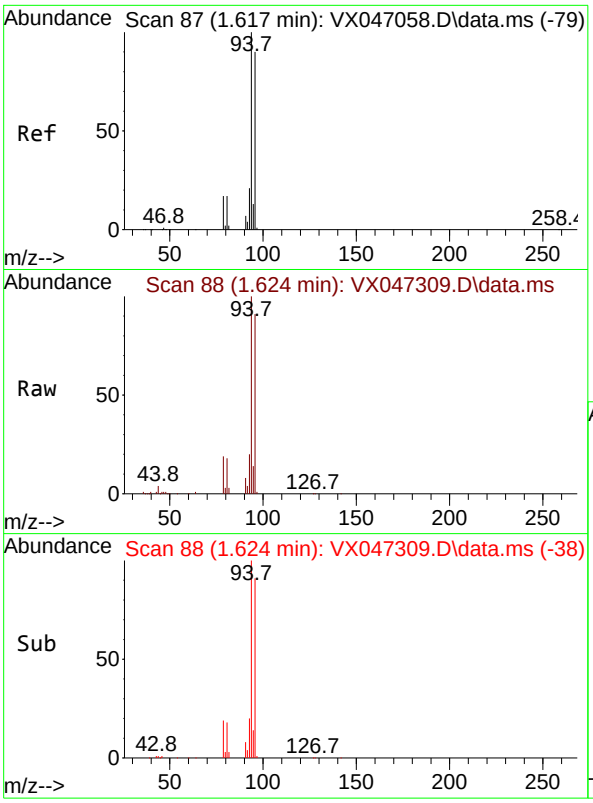


#4
Vinyl Chloride
Concen: 51.117 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 62 Resp: 146166

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.2	37.8

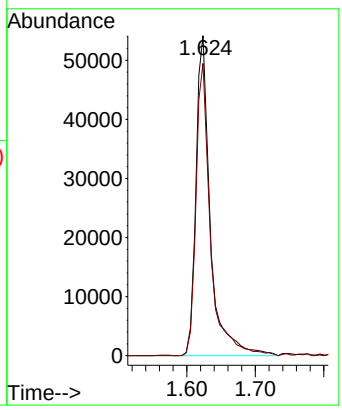




#5
Bromomethane
Concen: 50.837 ug/l
RT: 1.624 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 94 Resp: 7896

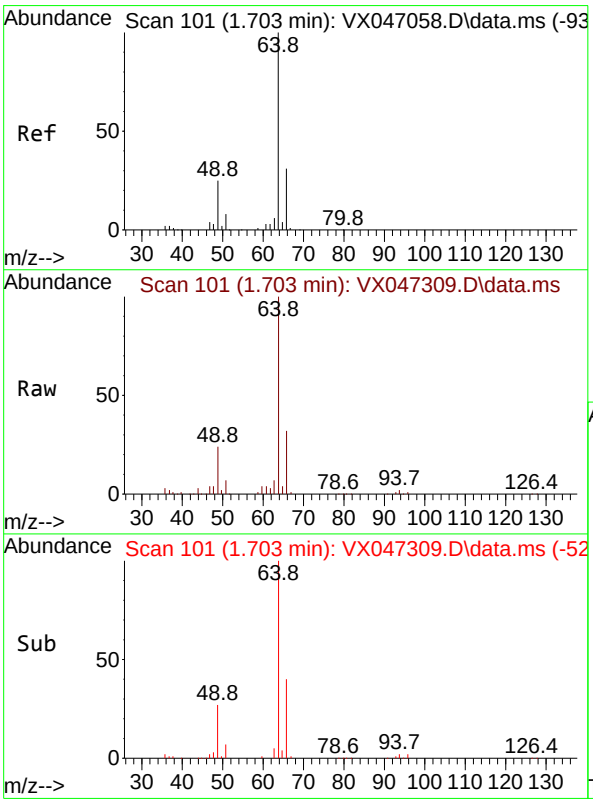
Ion	Ratio	Lower	Upper
94	100		
96	91.4	72.3	108.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

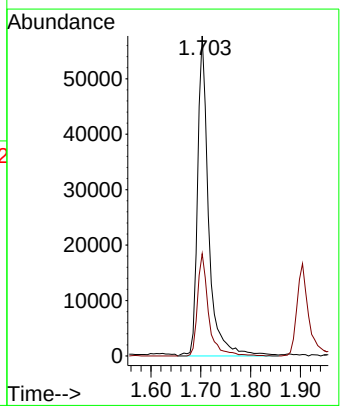
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

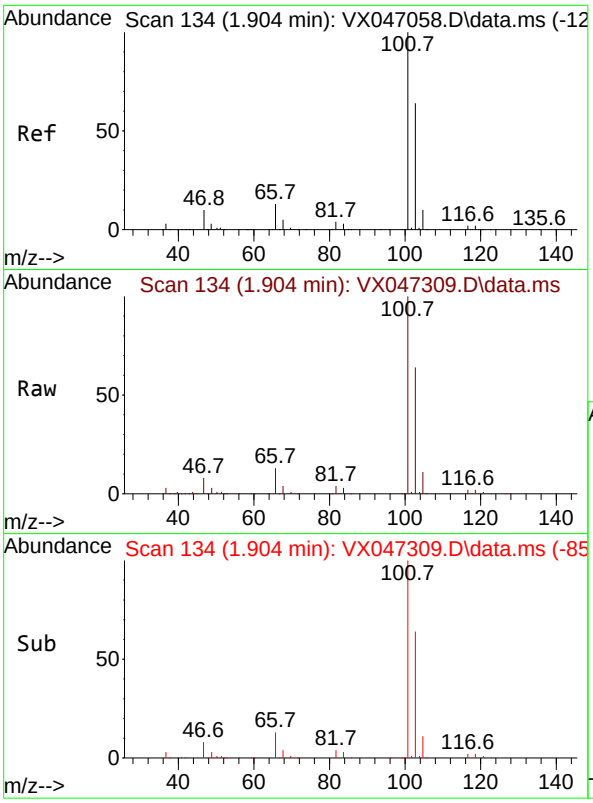


#6
Chloroethane
Concen: 47.427 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 64 Resp: 89071

Ion	Ratio	Lower	Upper
64	100		
66	31.9	25.0	37.6

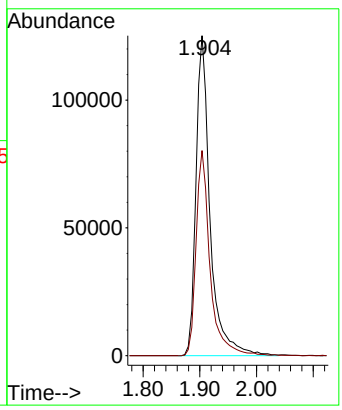




#7
Trichlorofluoromethane
Concen: 50.571 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:101 Resp: 21562

Ion	Ratio	Lower	Upper
101	100		
103	64.1	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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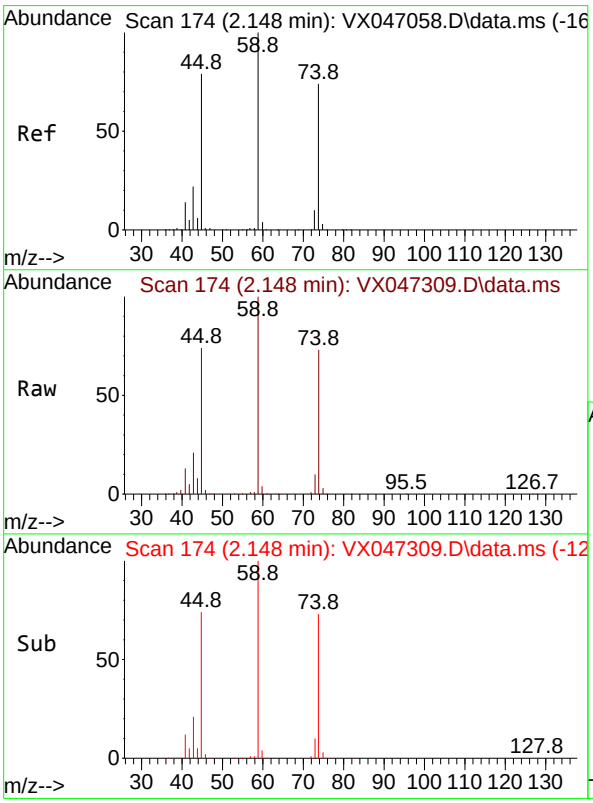
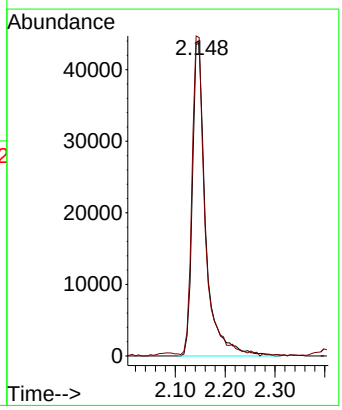
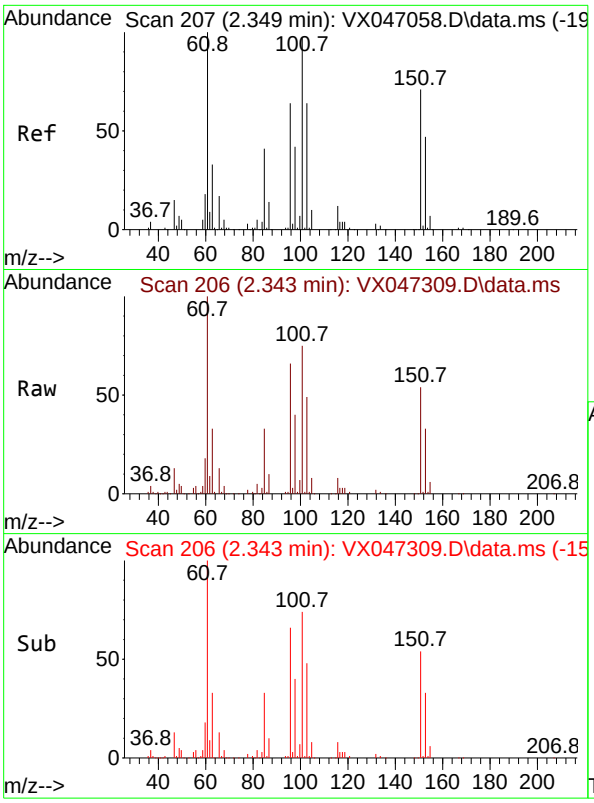


#8
Diethyl Ether
Concen: 54.146 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 74 Resp: 81402

Ion	Ratio	Lower	Upper
74	100		
45	98.7	53.0	159.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.350 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:101 Resp: 12677

Ion	Ratio	Lower	Upper
101	100		
85	43.4	35.4	53.0
151	75.9	59.2	88.8

Instrument :
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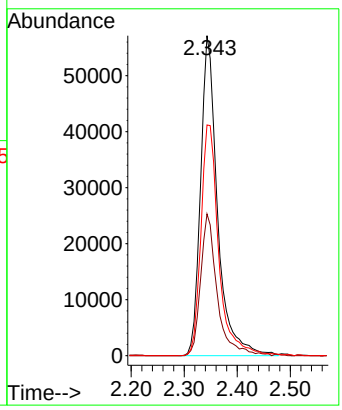
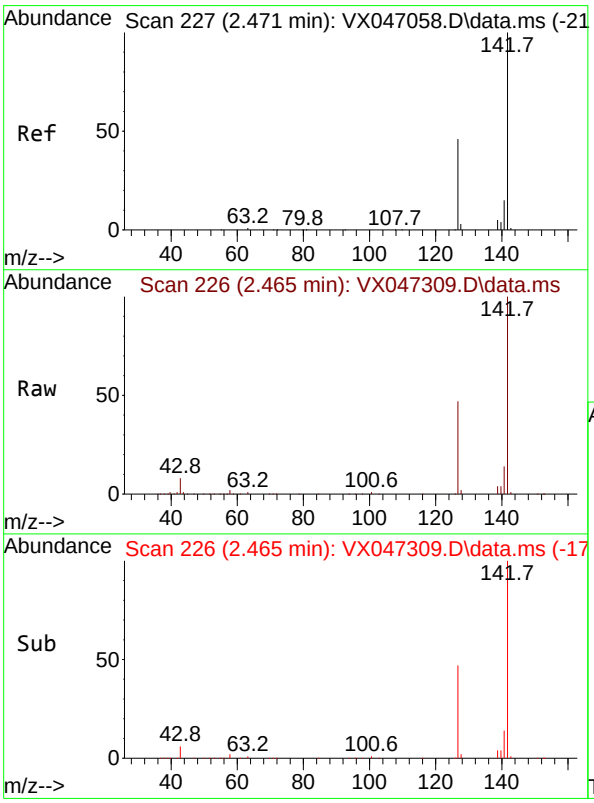
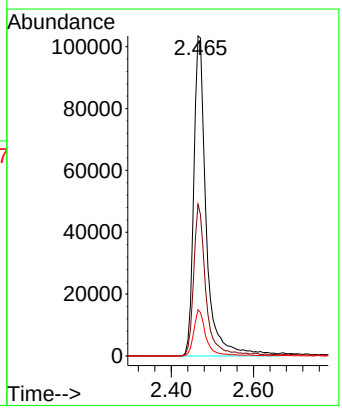


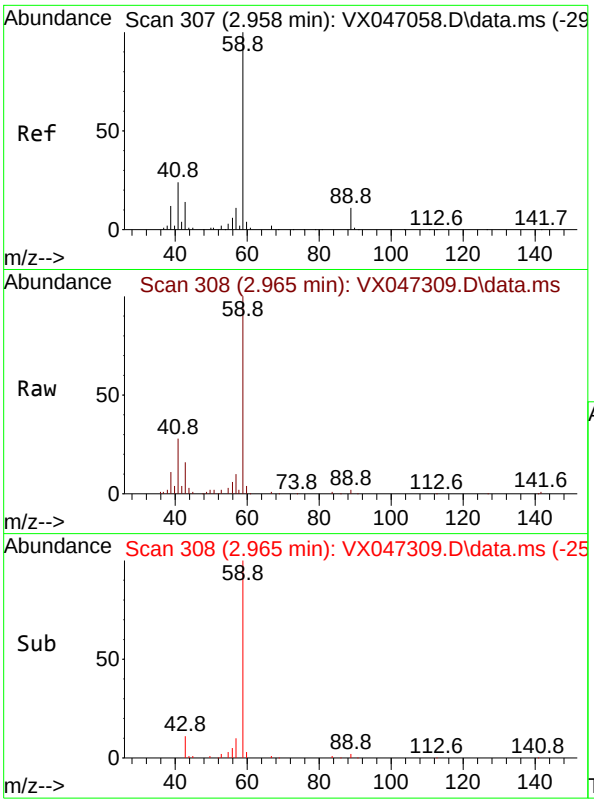


#10
Methyl Iodide
Concen: 83.845 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:142 Resp: 219512

Ion	Ratio	Lower	Upper
142	100		
127	45.8	36.6	54.8
141	13.9	10.9	16.3

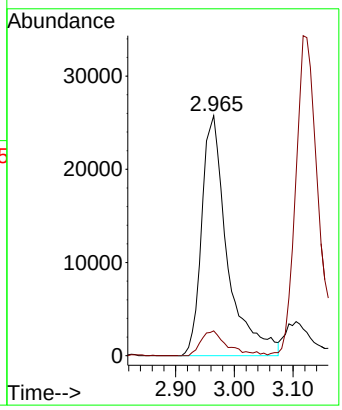




#11
Tert butyl alcohol
Concen: 266.119 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 59 Resp: 7826

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.5	12.7



Instrument :
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ClientSampleId :
VSTDCCC050

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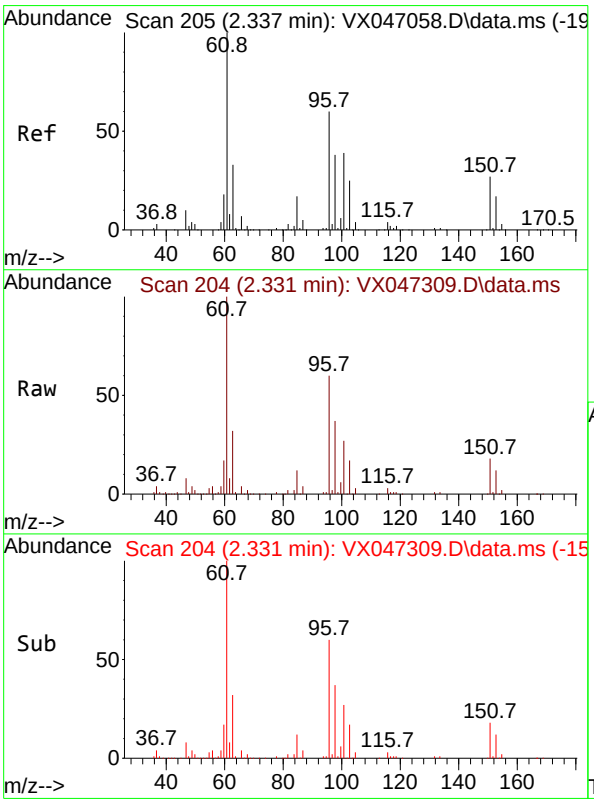
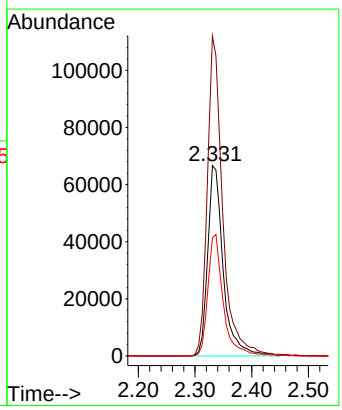
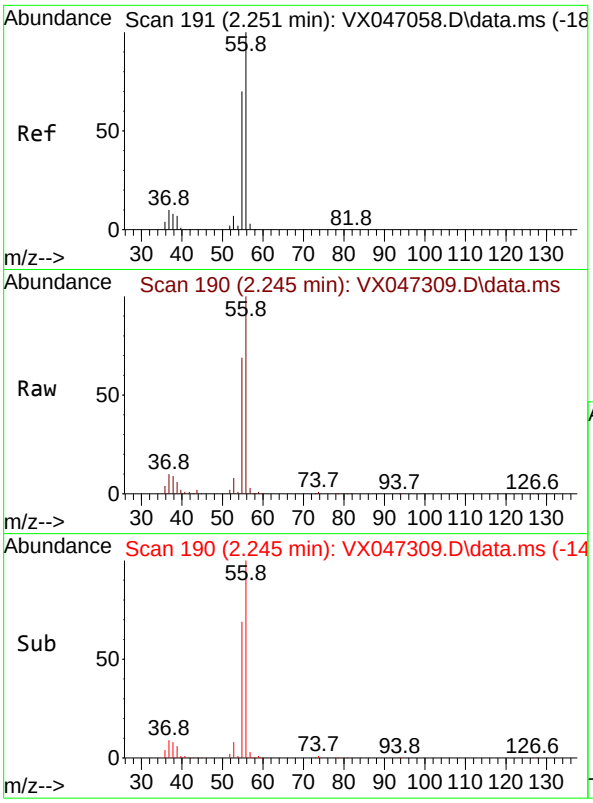


#12
1,1-Dichloroethene
Concen: 49.935 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 96 Resp: 127051

Ion	Ratio	Lower	Upper
96	100		
61	168.1	132.6	198.8
98	62.0	50.2	75.4

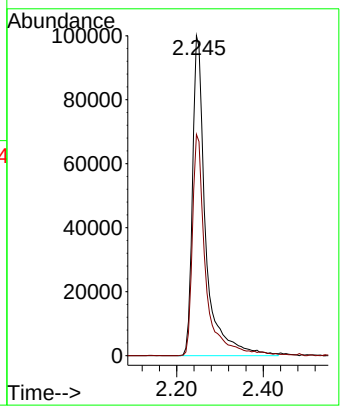




#13
Acrolein
Concen: 389.062 ug/l
RT: 2.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 56 Resp: 21127

Ion	Ratio	Lower	Upper
56	100		
55	70.4	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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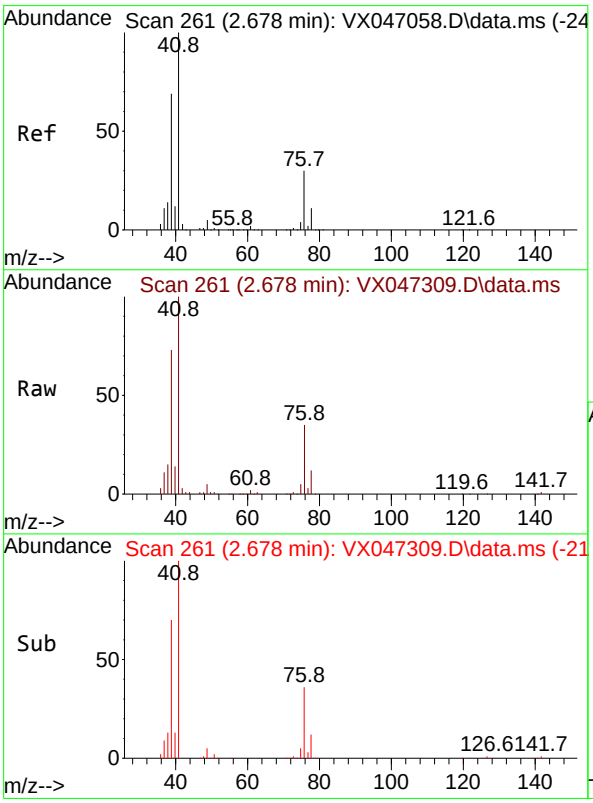
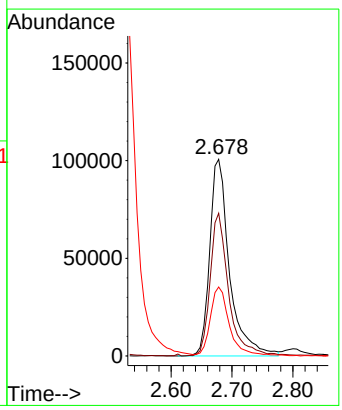
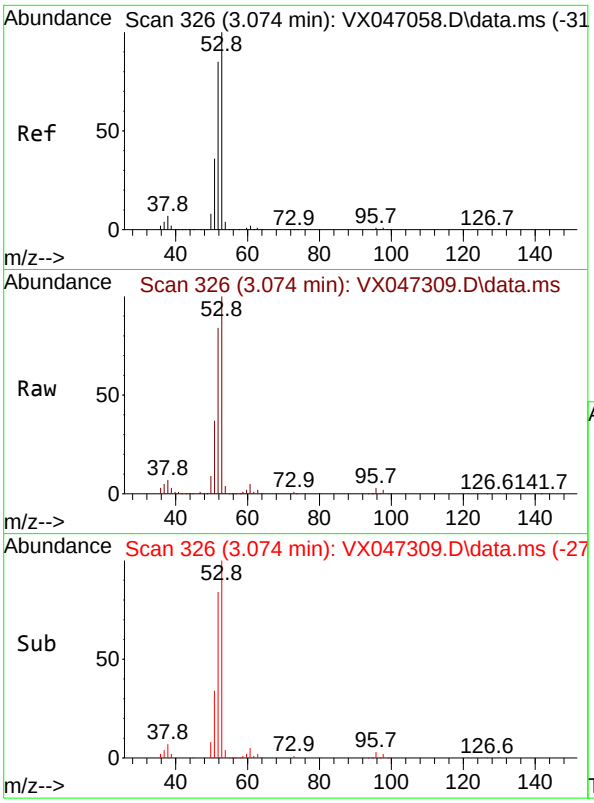


#14
Allyl chloride
Concen: 49.389 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 41 Resp: 227152

Ion	Ratio	Lower	Upper
41	100		
39	67.8	52.6	78.8
76	34.1	25.7	38.5

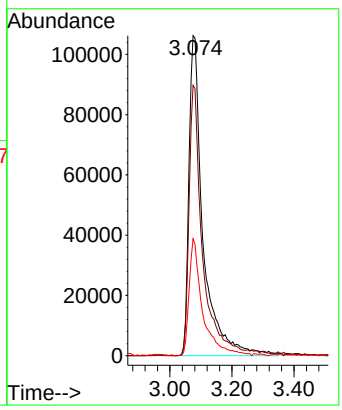




#15
Acrylonitrile
Concen: 280.076 ug/l
RT: 3.074 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 53 Resp: 33687

Ion	Ratio	Lower	Upper
53	100		
52	80.5	65.7	98.5
51	35.0	28.8	43.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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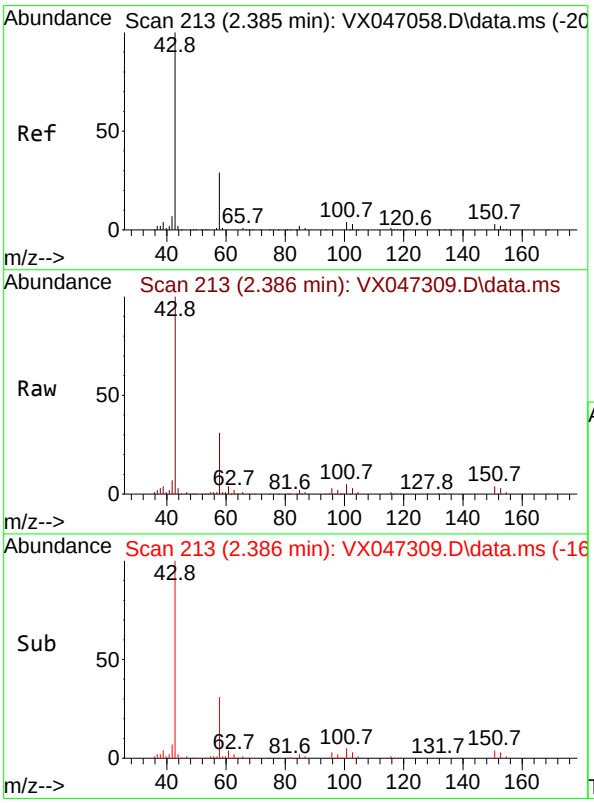
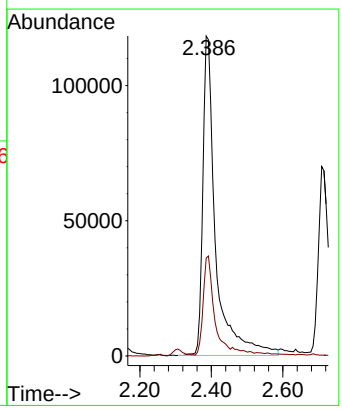
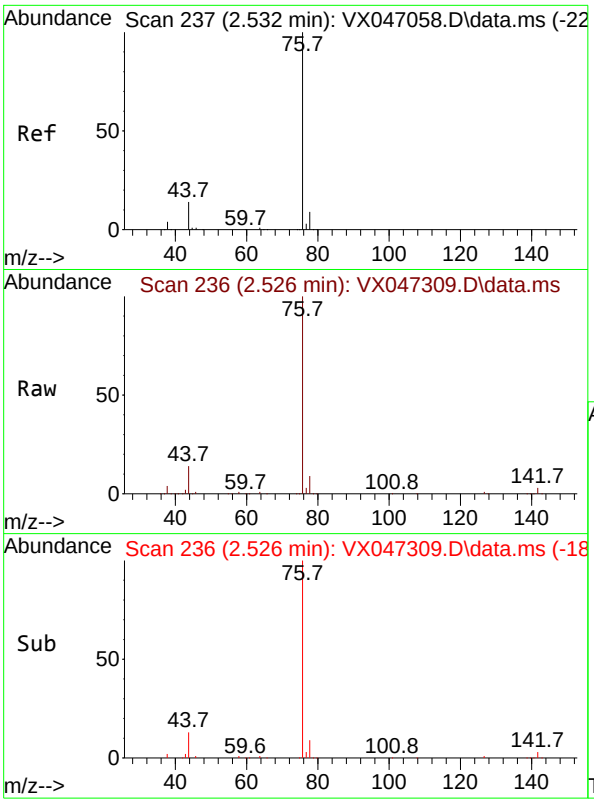


#16
Acetone
Concen: 291.855 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 43 Resp: 294865

Ion	Ratio	Lower	Upper
43	100		
58	30.0	24.0	36.0

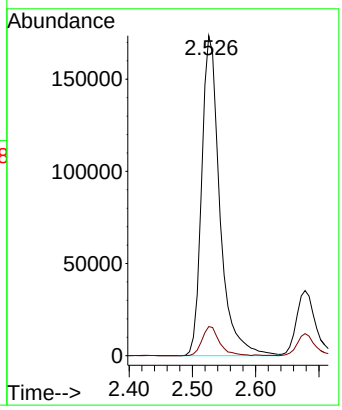




#17
Carbon Disulfide
Concen: 47.171 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 76 Resp: 34720

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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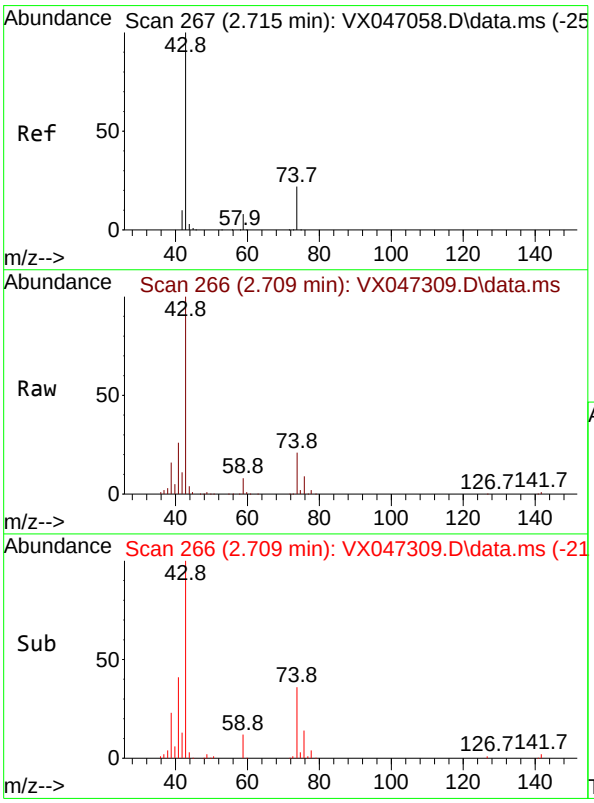
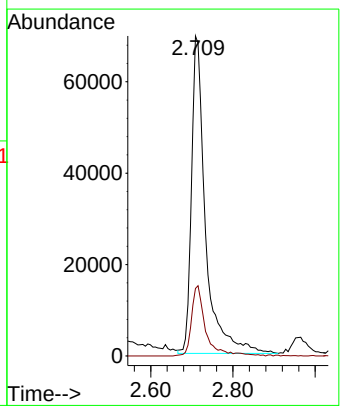
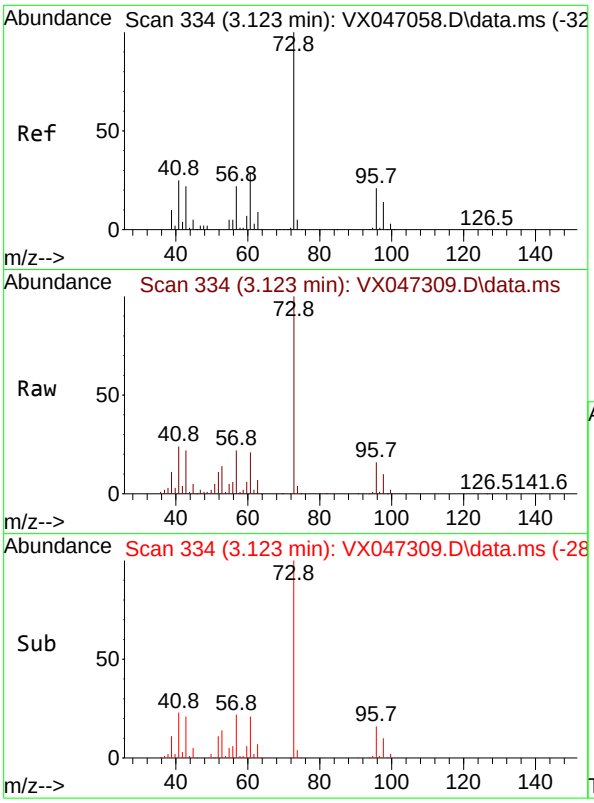


#18
Methyl Acetate
Concen: 61.331 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 43 Resp: 164668

Ion	Ratio	Lower	Upper
43	100		
74	21.5	17.7	26.5

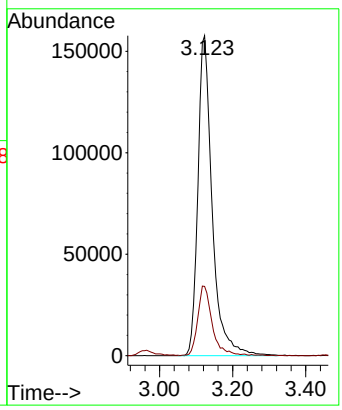




#19
Methyl tert-butyl Ether
Concen: 55.387 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 73 Resp: 42888

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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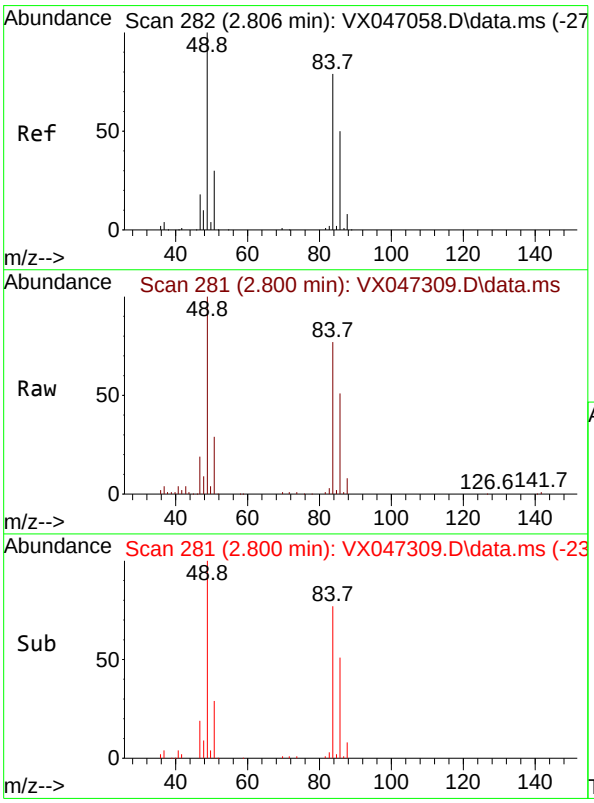
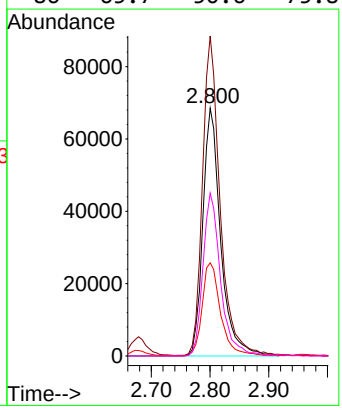
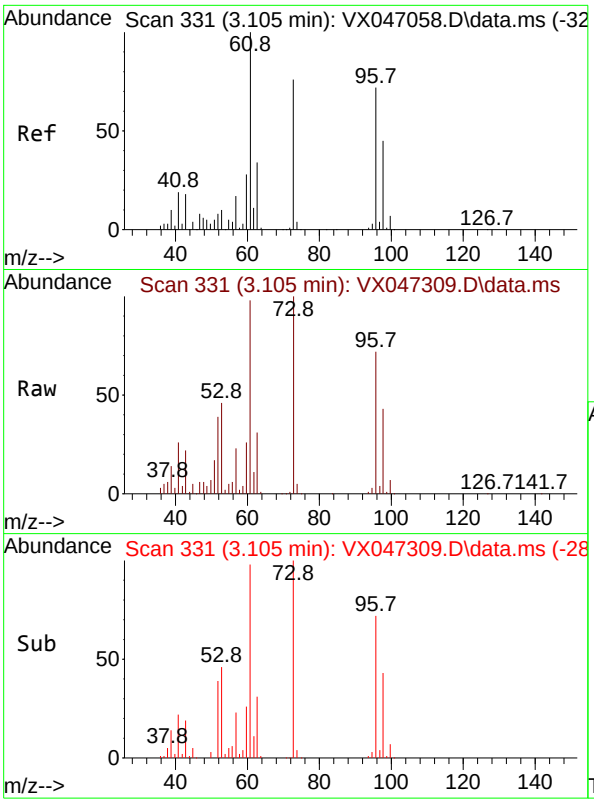


#20
Methylene Chloride
Concen: 52.043 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 84 Resp: 144651

Ion	Ratio	Lower	Upper
84	100		
49	128.8	101.6	152.4
51	37.5	30.3	45.5
86	65.7	50.6	75.8

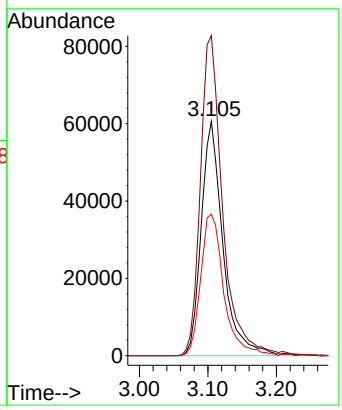




#21
trans-1,2-Dichloroethene
Concen: 51.205 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 96 Resp: 13331

Ion	Ratio	Lower	Upper
96	100		
61	136.4	111.1	166.7
98	60.4	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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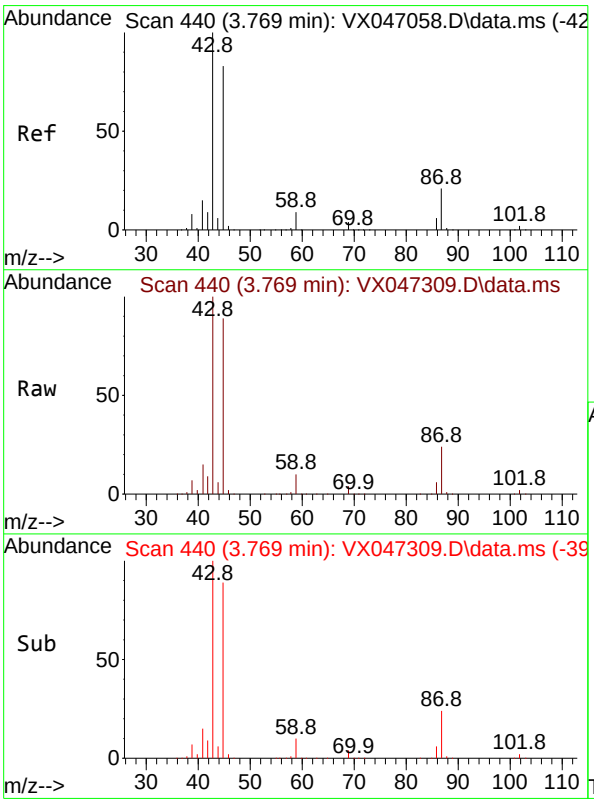
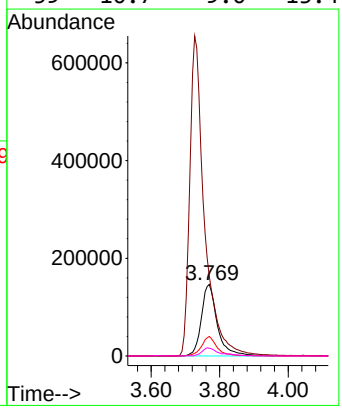
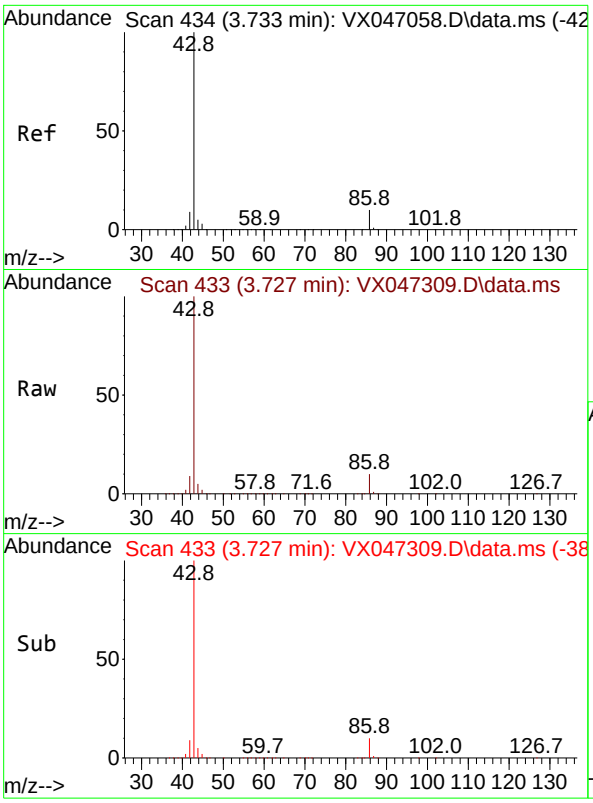


#22
Diisopropyl ether
Concen: 53.638 ug/l
RT: 3.769 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 45 Resp: 474294

Ion	Ratio	Lower	Upper
45	100		
43	112.0	96.8	145.2
87	27.3	20.5	30.7
59	10.7	9.0	13.4





#23
Vinyl Acetate
Concen: 277.255 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 43 Resp: 196634

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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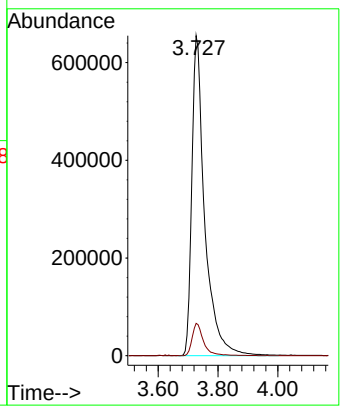
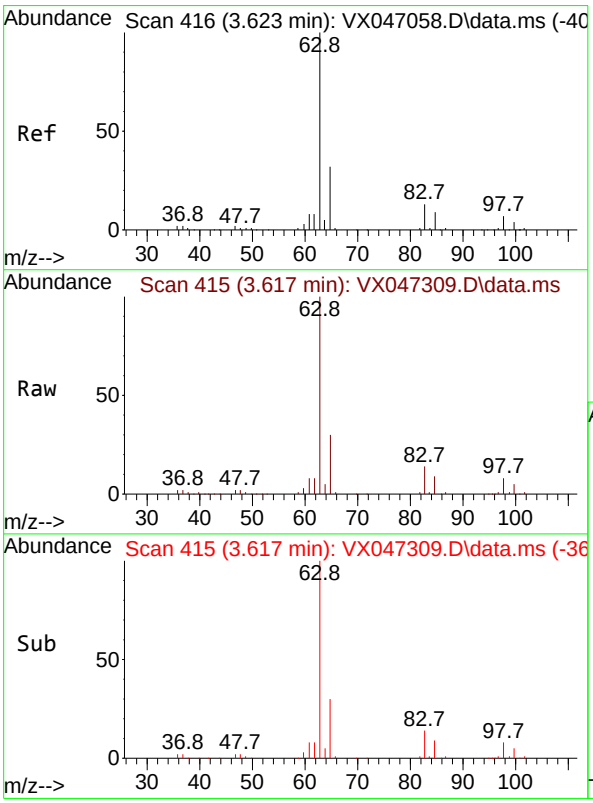
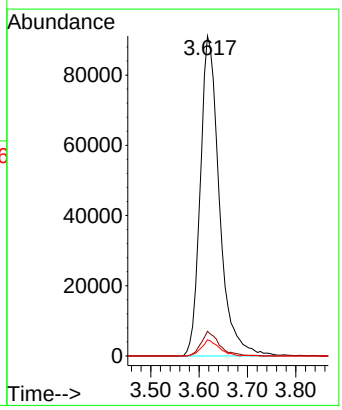


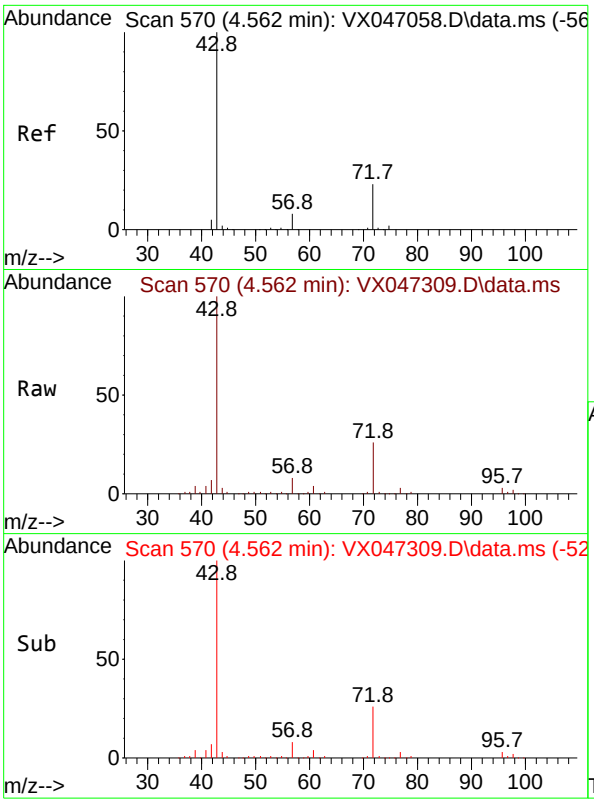


#24
1,1-Dichloroethane
Concen: 50.758 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 63 Resp: 249579

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.6	10.8
100	5.0	2.3	6.8

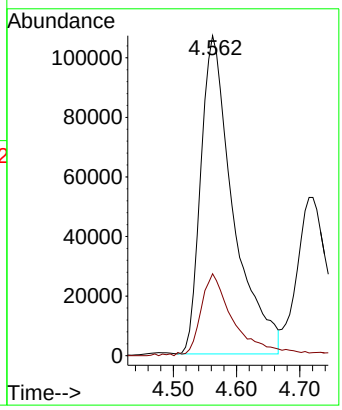




#25
2-Butanone
Concen: 258.198 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 43 Resp: 37983

Ion	Ratio	Lower	Upper
43	100		
72	24.8	18.8	28.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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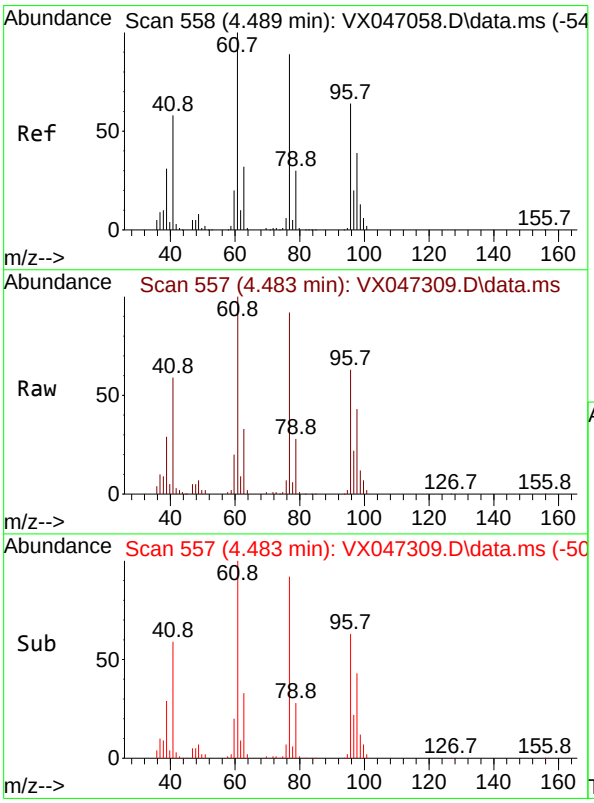
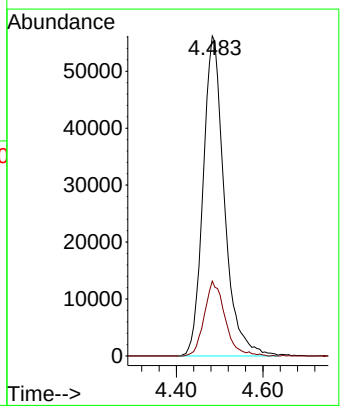
Supervised By :Mahesh Dadoda 08/18/2025

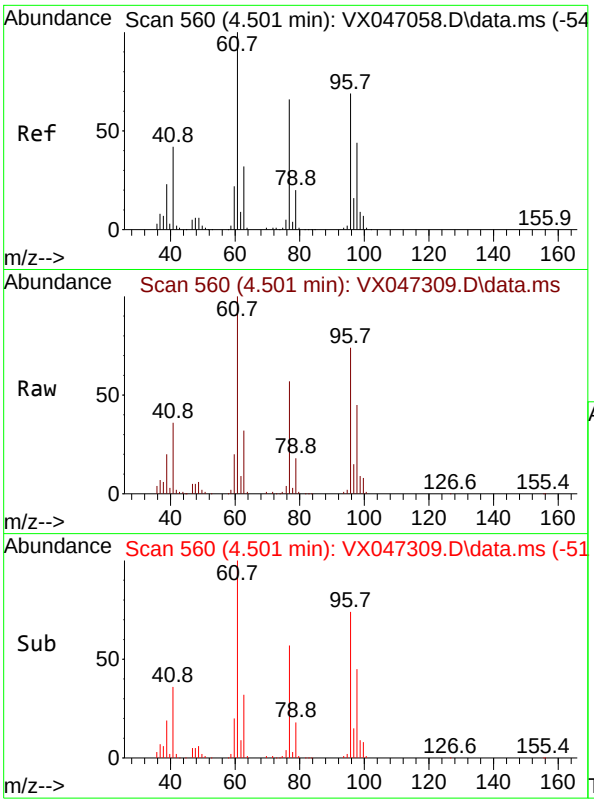


#26
2,2-Dichloropropane
Concen: 50.208 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 77 Resp: 191107

Ion	Ratio	Lower	Upper
77	100		
97	22.9	11.4	34.1

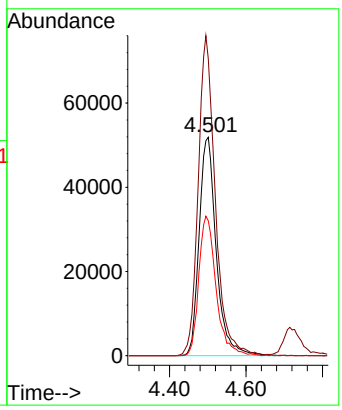




#27
cis-1,2-Dichloroethene
Concen: 52.320 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 96 Resp: 16130

Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	298.6
98	64.5	0.0	128.8



Instrument :
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ClientSampleId :
VSTDCCC050

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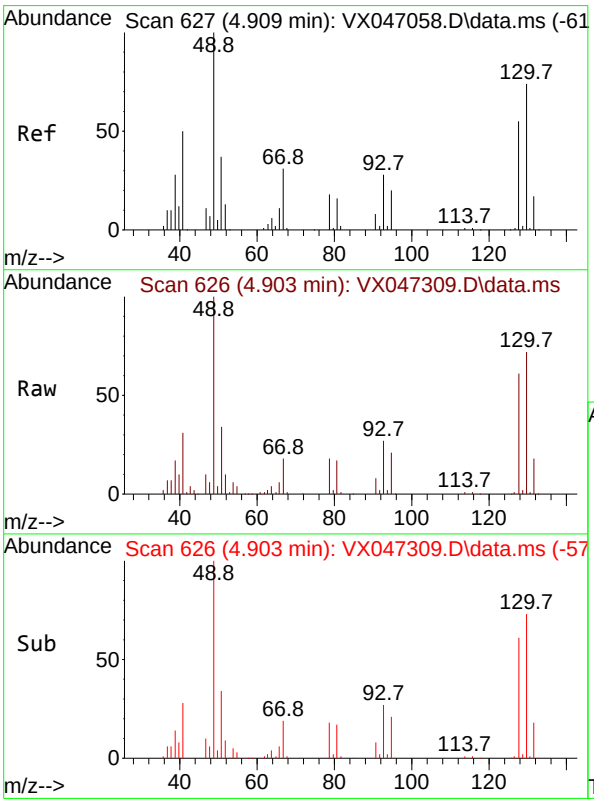
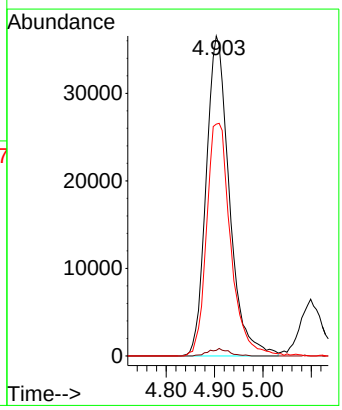
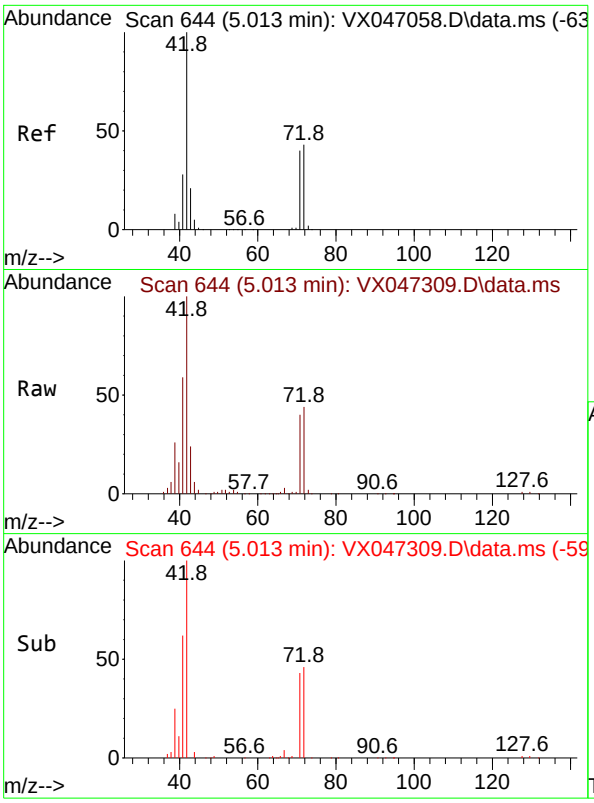


#28
Bromochloromethane
Concen: 53.820 ug/l
RT: 4.903 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 49 Resp: 121750

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	75.2	59.0	88.4

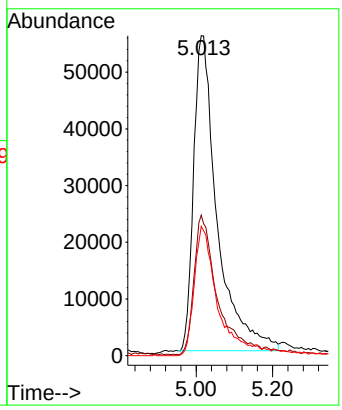




#29
Tetrahydrofuran
Concen: 250.372 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 42 Resp: 23764

Ion	Ratio	Lower	Upper
42	100		
72	43.4	33.7	50.5
71	39.2	31.0	46.4



Instrument :
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ClientSampleId :
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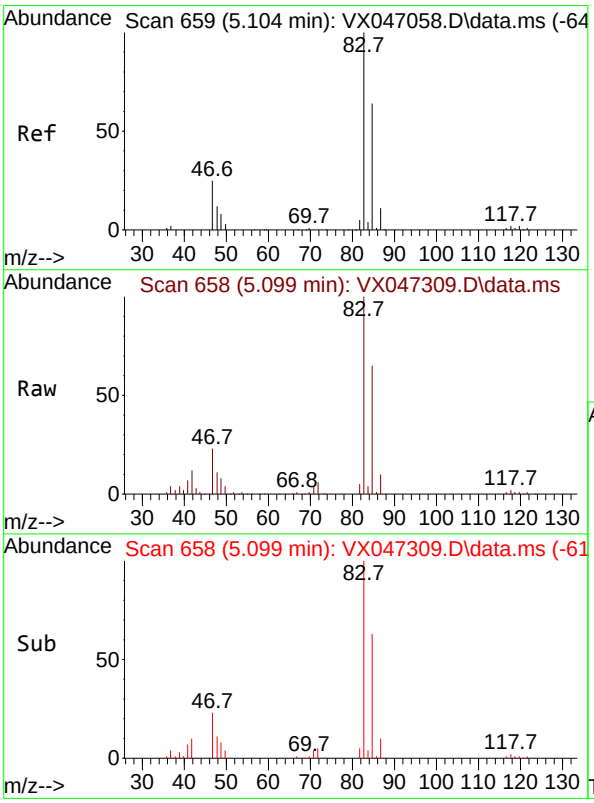
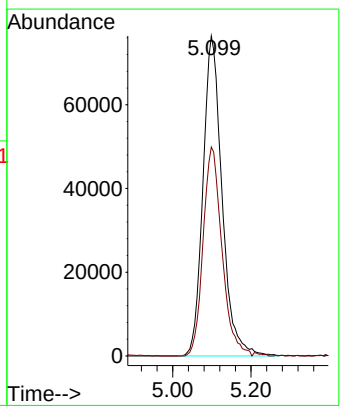
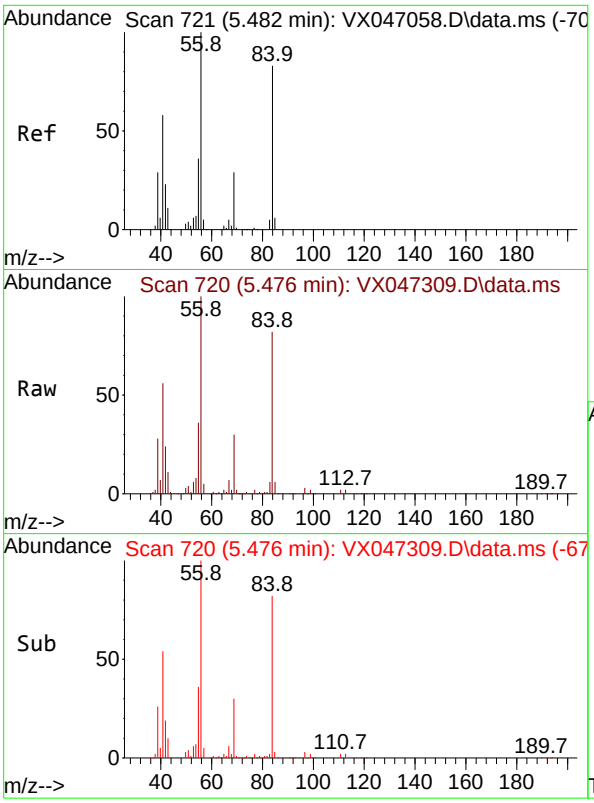


#30
Chloroform
Concen: 51.555 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 83 Resp: 258046

Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.9	76.3

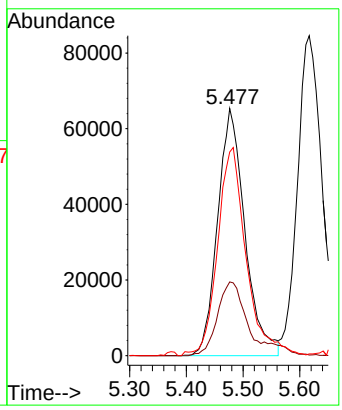




#31
Cyclohexane
Concen: 46.334 ug/l
RT: 5.476 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 56 Resp: 21844

Ion	Ratio	Lower	Upper
56	100		
69	29.4	23.3	34.9
84	82.2	66.5	99.7



Instrument :
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ClientSampleId :
VSTDCCC050

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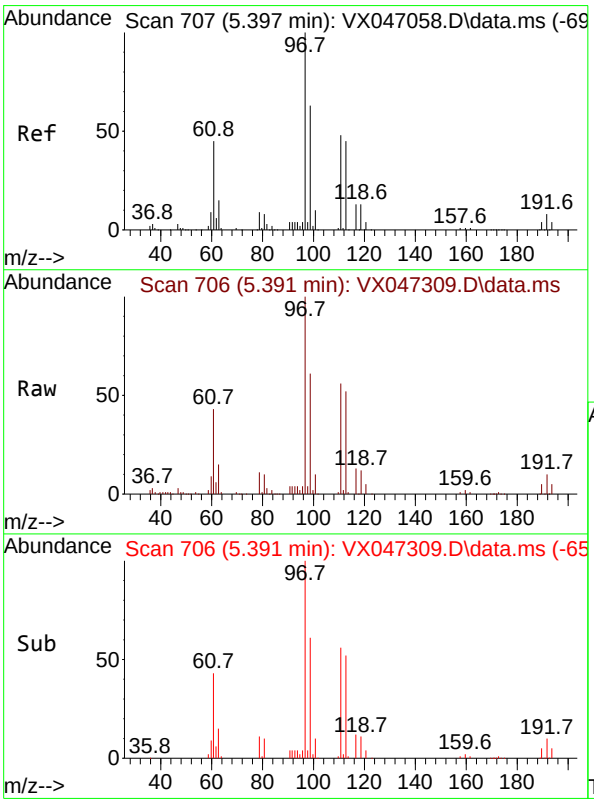
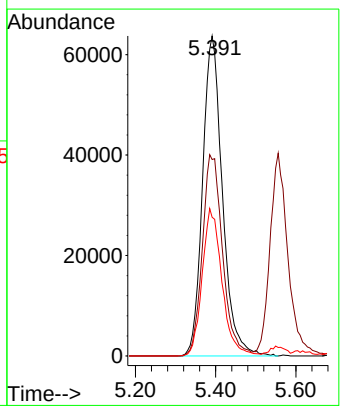
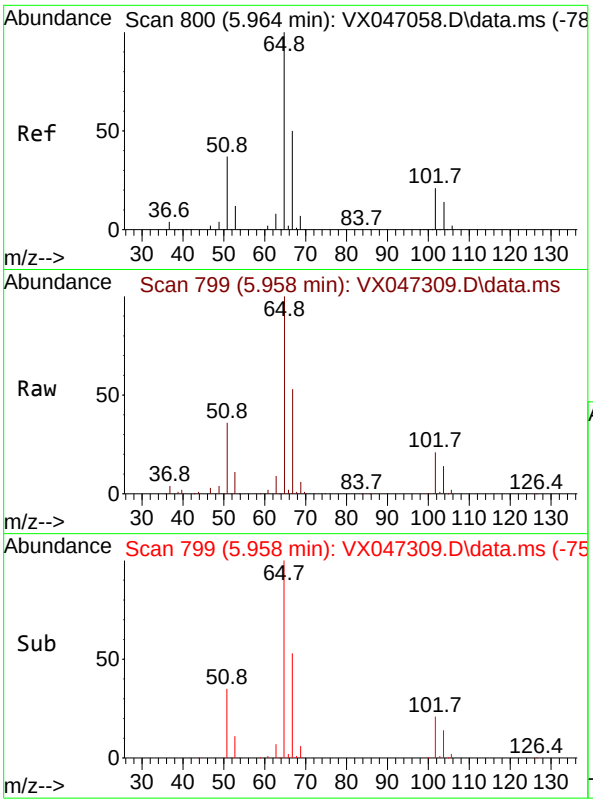


#32
1,1,1-Trichloroethane
Concen: 50.322 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 97 Resp: 218773

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.2	76.8
61	45.9	37.1	55.7

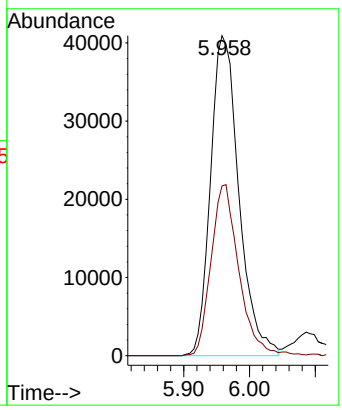




#33
1,2-Dichloroethane-d4
Concen: 48.737 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 65 Resp: 12291

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	104.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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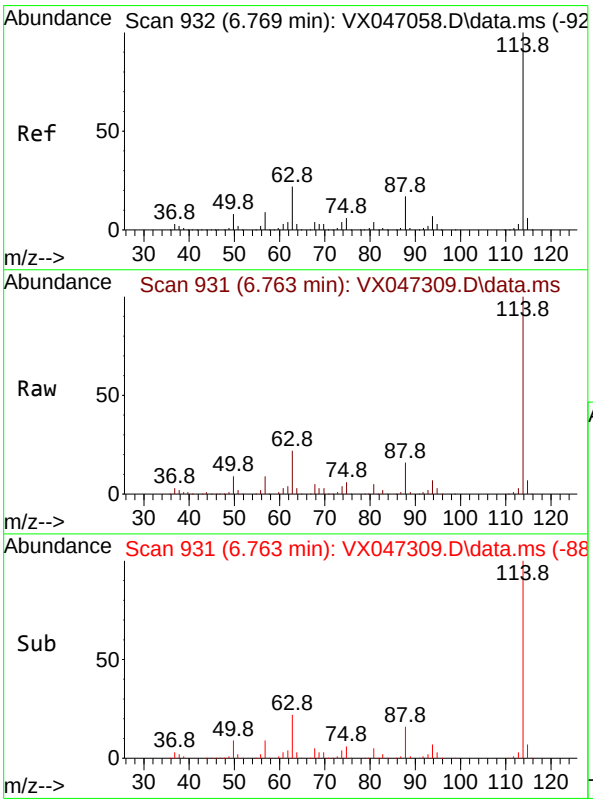
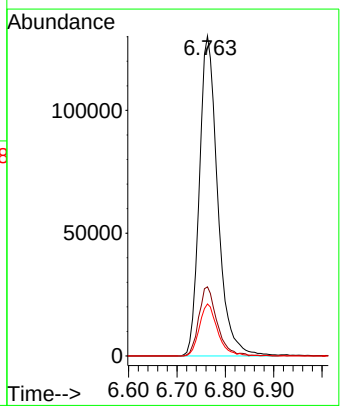
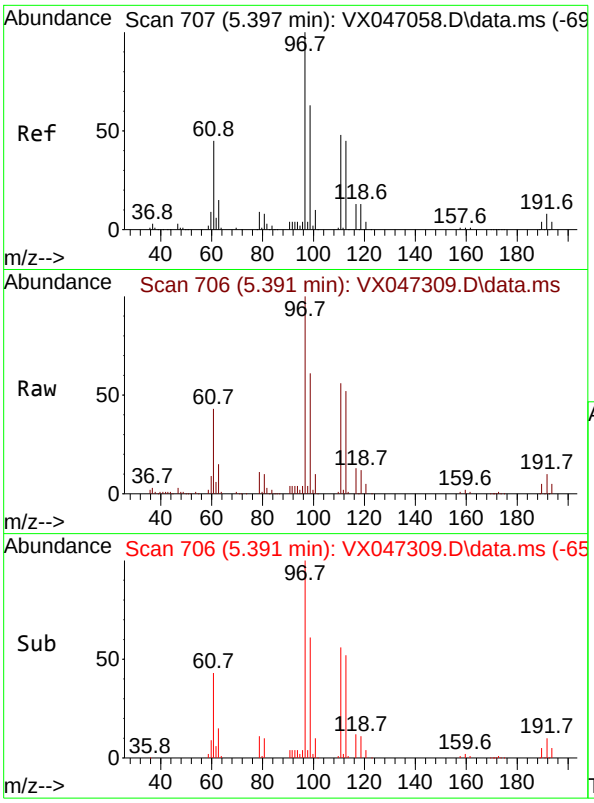


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:114 Resp: 343367

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	43.2
88	16.3	0.0	33.8

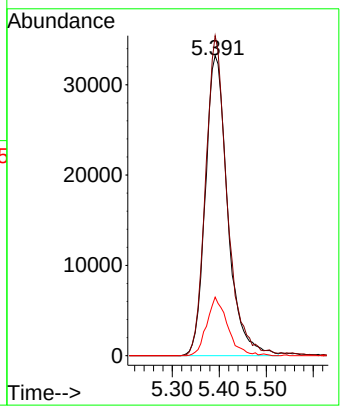




#35
Dibromofluoromethane
Concen: 51.627 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:113 Resp: 10945

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.6	124.0
192	18.2	14.9	22.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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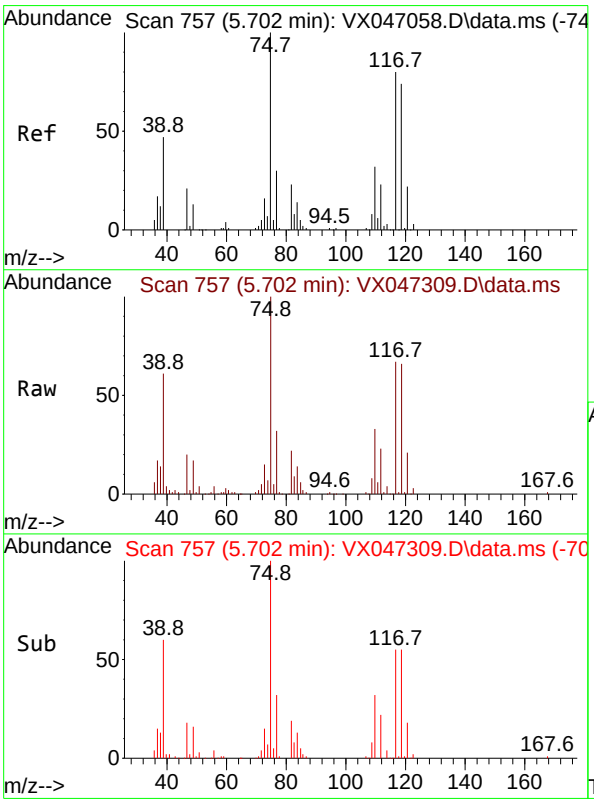
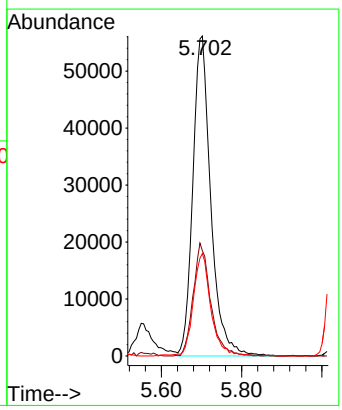
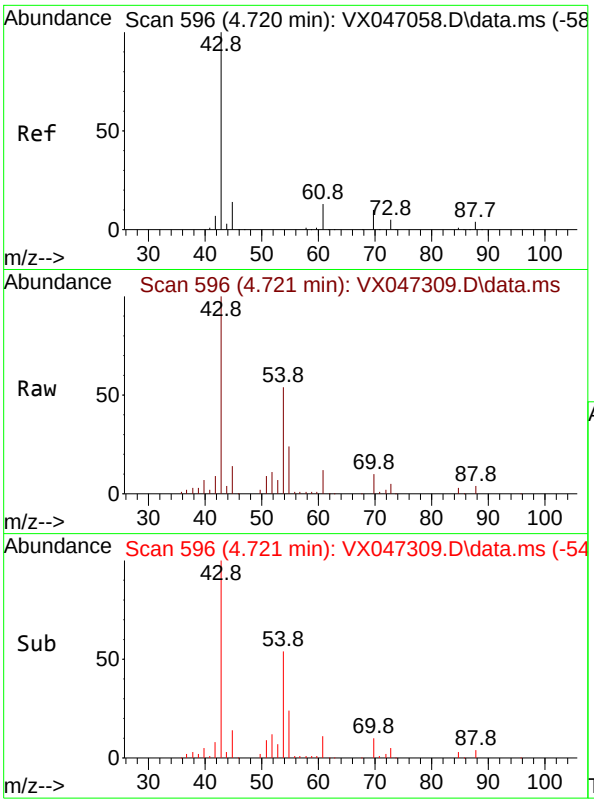


#36
1,1-Dichloropropene
Concen: 48.290 ug/l
RT: 5.702 min Scan# 757
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 75 Resp: 174512

Ion	Ratio	Lower	Upper
75	100		
110	34.2	17.2	51.5
77	30.7	25.1	37.7

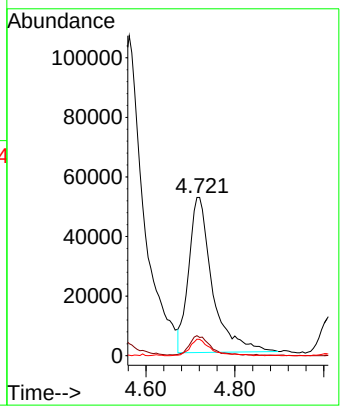




#37
Ethyl Acetate
Concen: 57.925 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 43 Resp: 19289

Ion	Ratio	Lower	Upper
43	100		
61	10.7	10.2	15.2
70	9.3	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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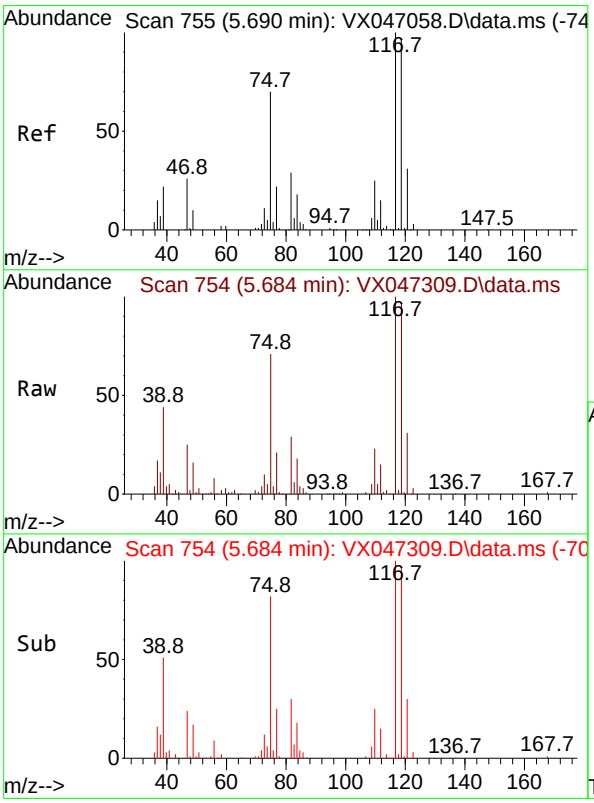
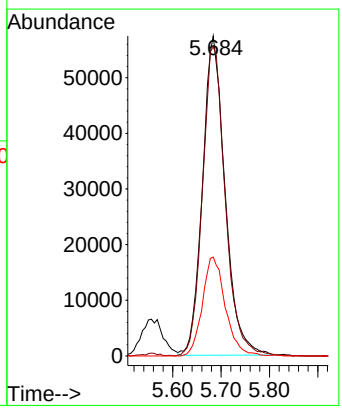
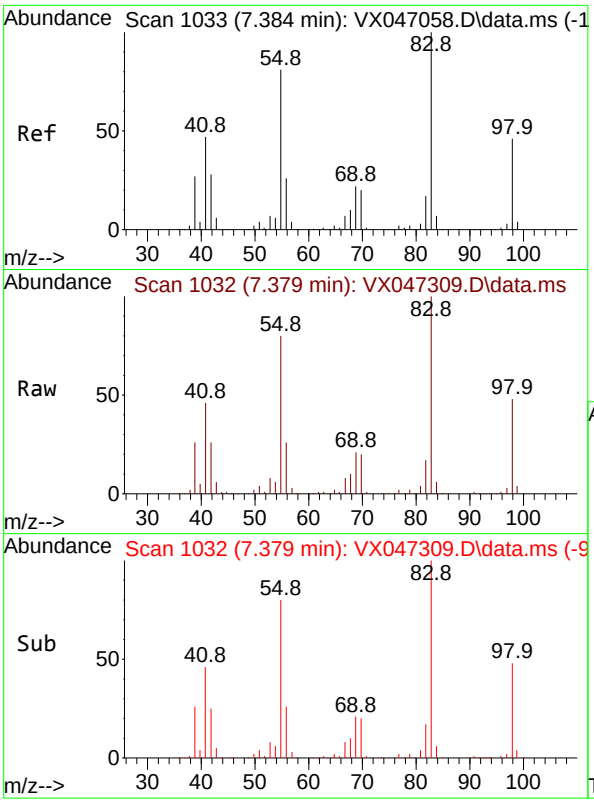


#38
Carbon Tetrachloride
Concen: 48.263 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:117 Resp: 186156

Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.6	115.0
121	31.0	24.4	36.6

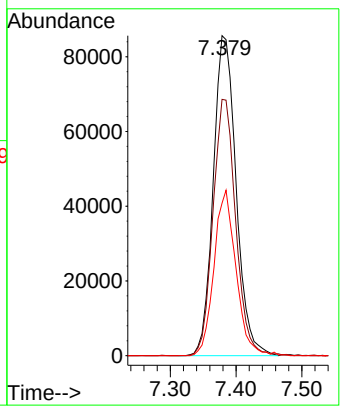




#39
Methylcyclohexane
Concen: 45.966 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 83 Resp: 20740

Ion	Ratio	Lower	Upper
83	100		
55	80.1	64.5	96.7
98	47.7	36.9	55.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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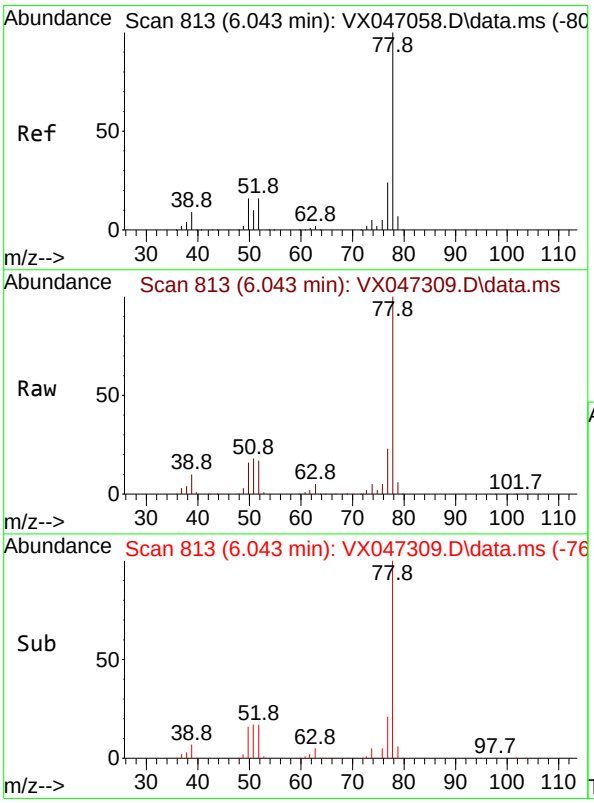
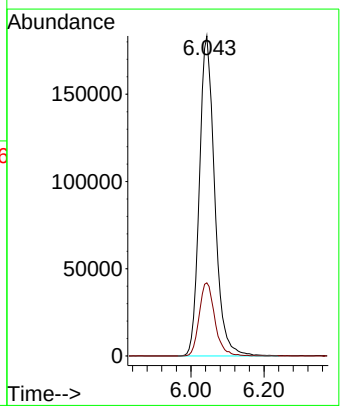
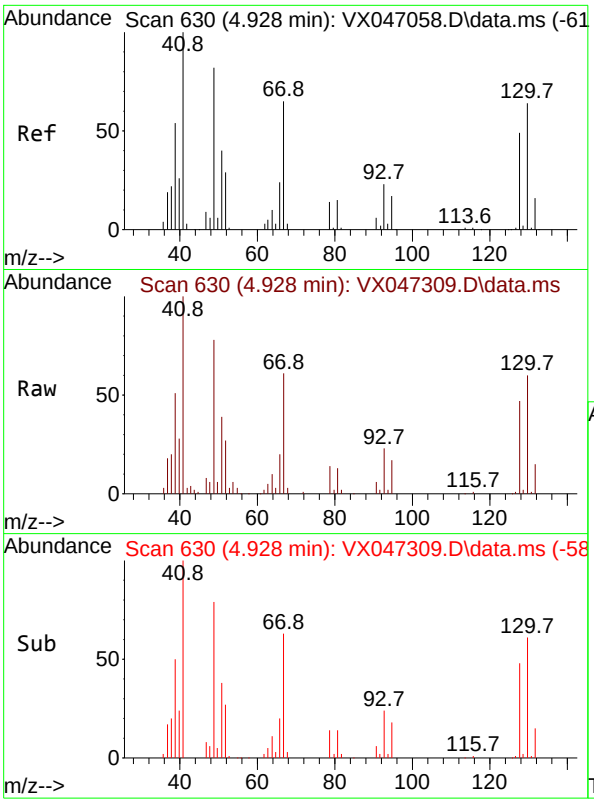


#40
Benzene
Concen: 51.034 ug/l
RT: 6.043 min Scan# 813
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 78 Resp: 533739

Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.0	28.4

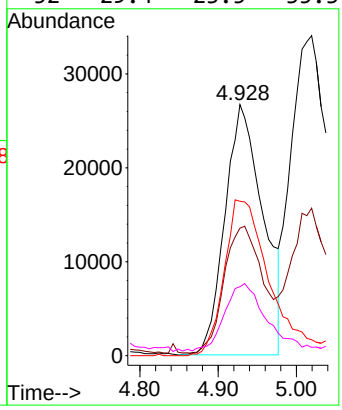




#41
Methacrylonitrile
Concen: 51.663 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 41 Resp: 8995

Ion	Ratio	Lower	Upper
41	100		
39	51.0	44.2	66.2
67	75.6	56.4	84.6
52	29.4	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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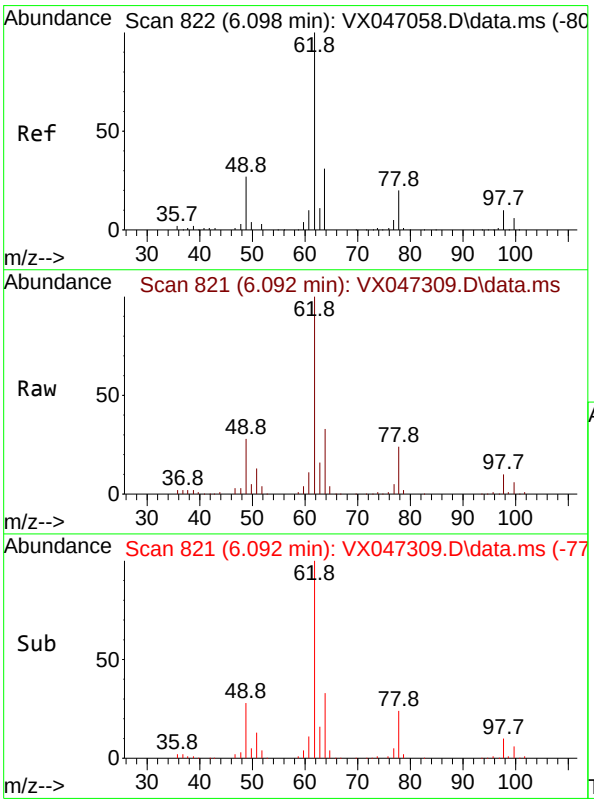
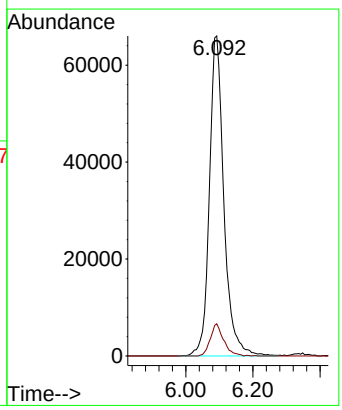
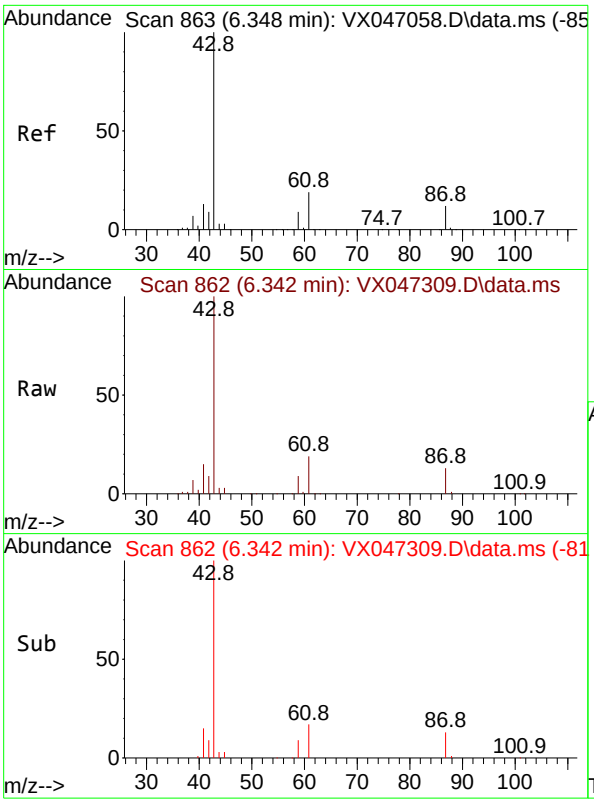


#42
1,2-Dichloroethane
Concen: 53.804 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 62 Resp: 198218

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.8

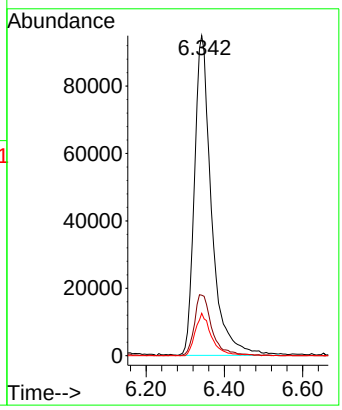




#43
Isopropyl Acetate
Concen: 55.423 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 43 Resp: 28772

Ion	Ratio	Lower	Upper
43	100		
61	19.6	15.1	22.7
87	12.7	9.7	14.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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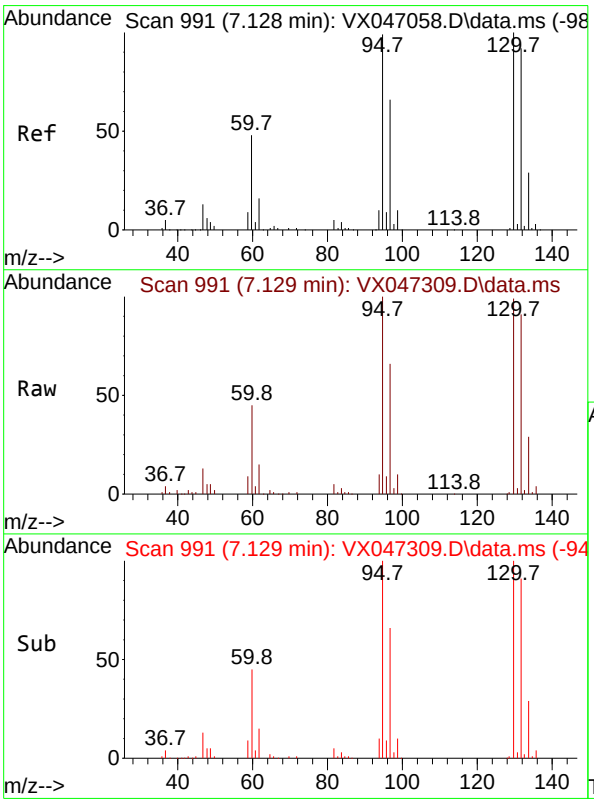
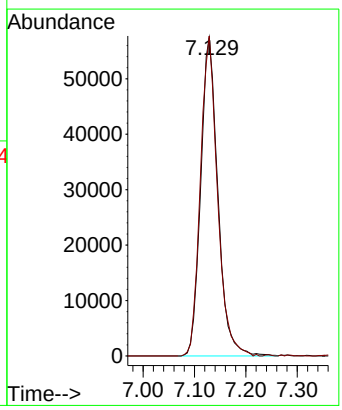
Supervised By :Mahesh Dadoda 08/18/2025

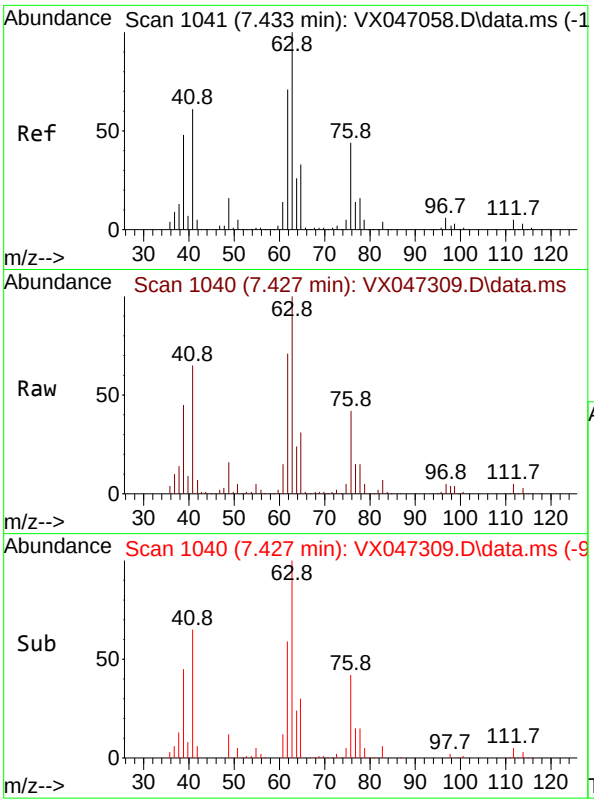


#44
Trichloroethene
Concen: 49.765 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:130 Resp: 133465

Ion	Ratio	Lower	Upper
130	100		
95	100.6	0.0	198.6

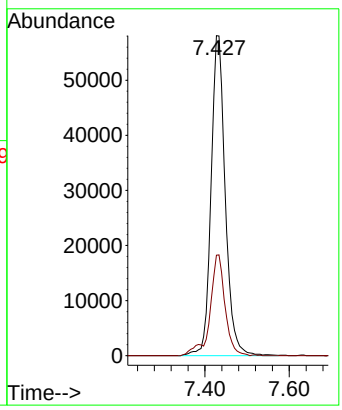




#45
1,2-Dichloropropane
Concen: 51.888 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 63 Resp: 13591

Ion	Ratio	Lower	Upper
63	100		
65	31.4	26.3	39.5



Instrument :
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ClientSampleId :
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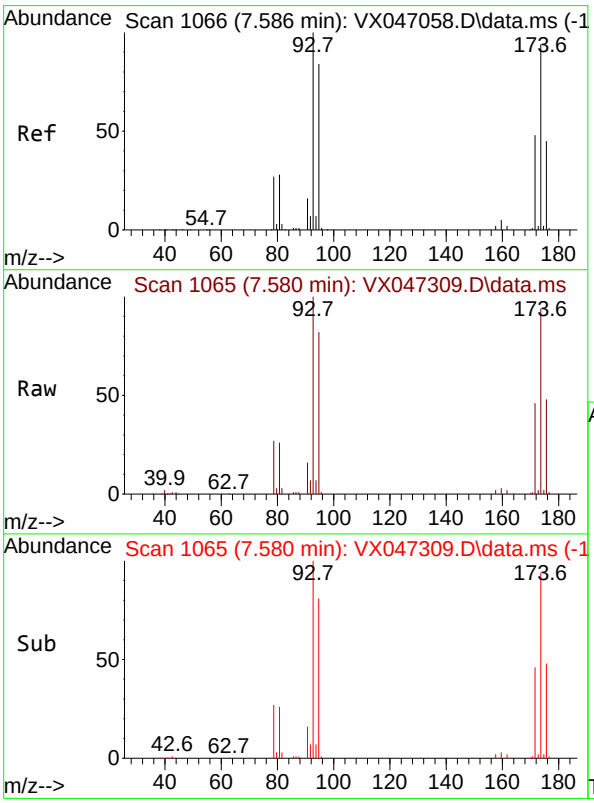
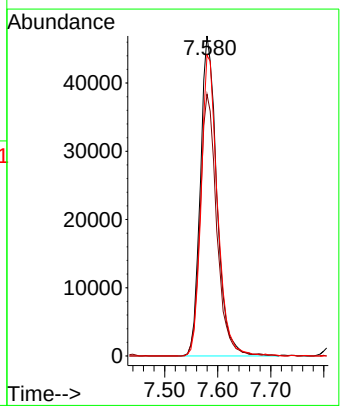
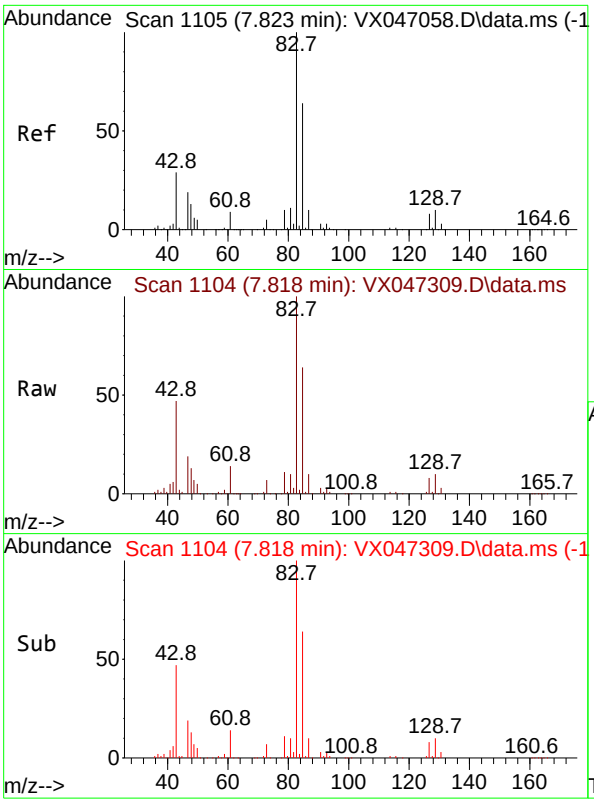


#46
Dibromomethane
Concen: 55.078 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 93 Resp: 101172

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.9	98.9
174	93.1	74.6	112.0

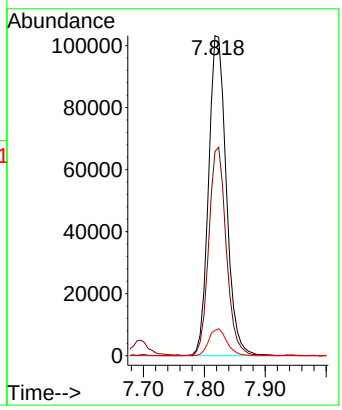




#47
Bromodichloromethane
Concen: 53.254 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 83 Resp: 20821

Ion	Ratio	Lower	Upper
83	100		
85	63.7	49.9	74.9
127	7.9	6.6	10.0



Instrument :
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ClientSampleId :
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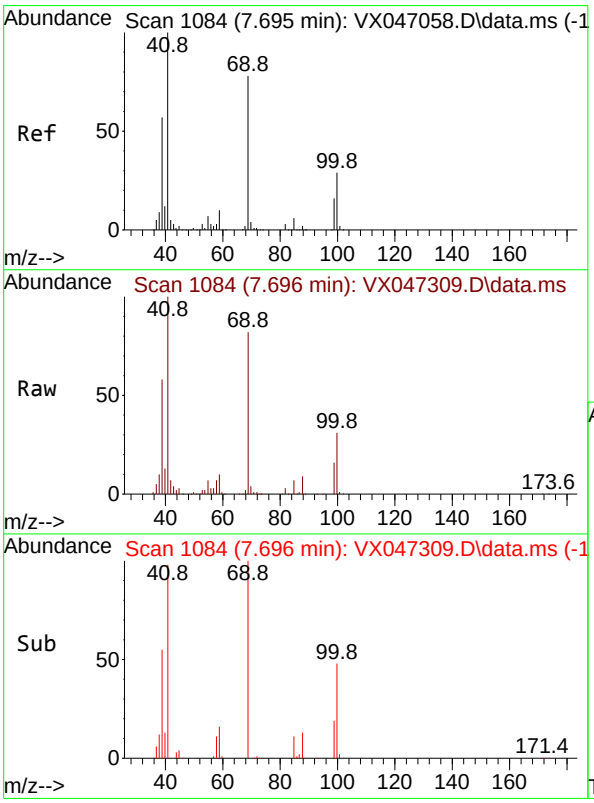
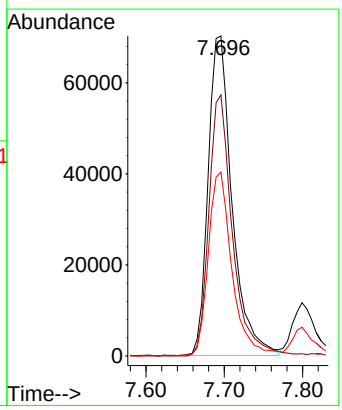
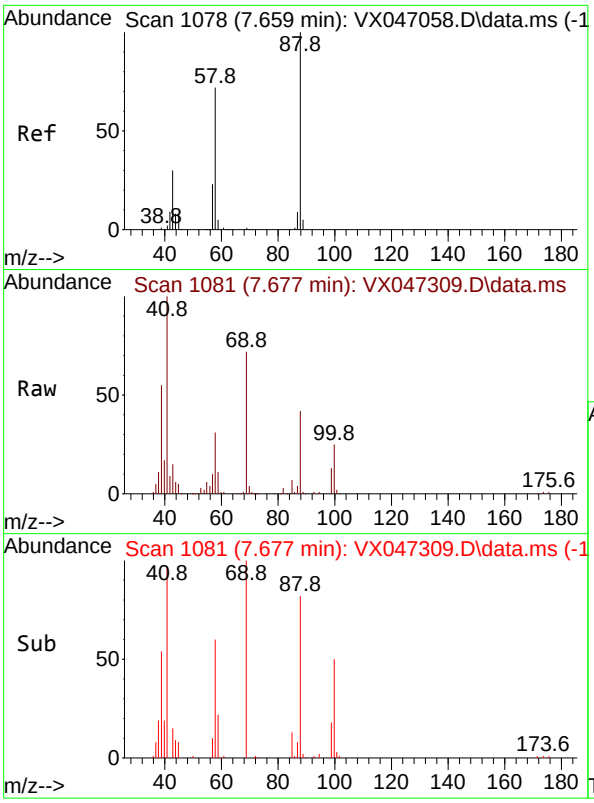


#48
Methyl methacrylate
Concen: 52.829 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 41 Resp: 149404

Ion	Ratio	Lower	Upper
41	100		
69	80.0	62.3	93.5
39	56.7	44.8	67.2

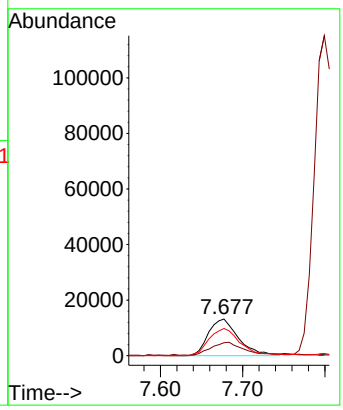




#49
1,4-Dioxane
Concen: 1042.543 ug/l
RT: 7.677 min Scan# 1
Delta R.T. 0.019 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 88 Resp: 3353

Ion	Ratio	Lower	Upper
88	100		
43	38.0	33.6	50.4
58	78.7	58.8	88.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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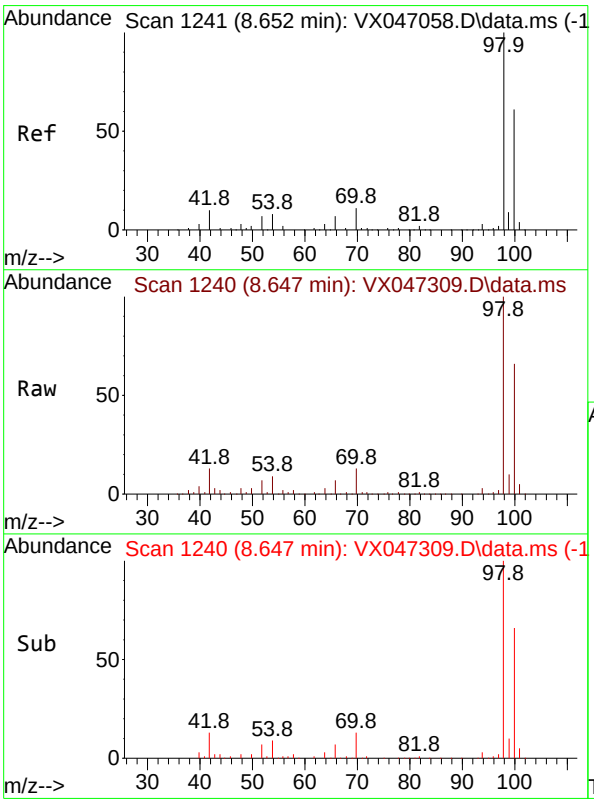
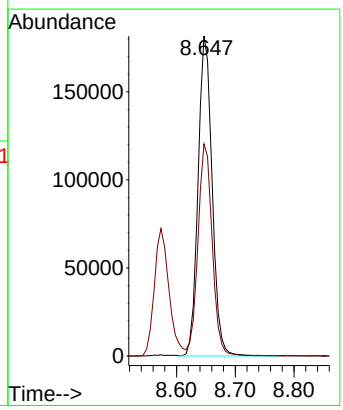
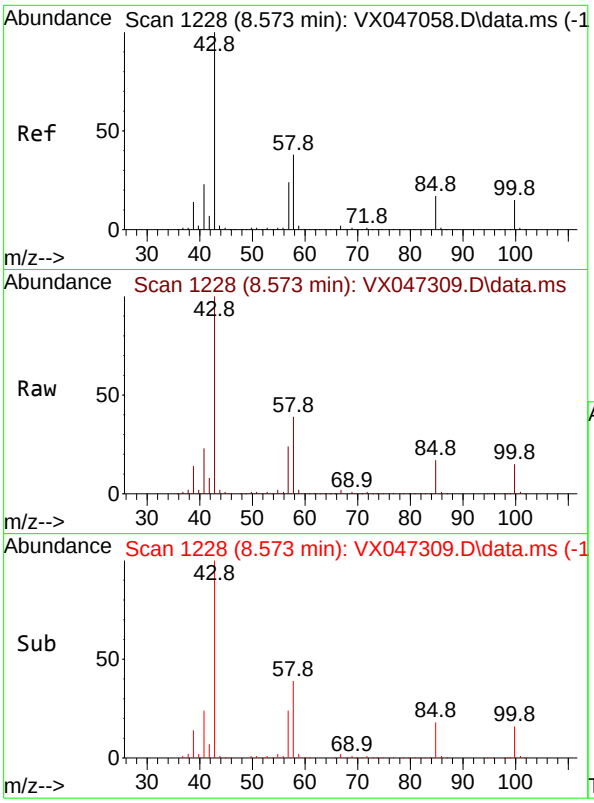


#50
Toluene-d8
Concen: 43.990 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 98 Resp: 302023

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.3	79.9

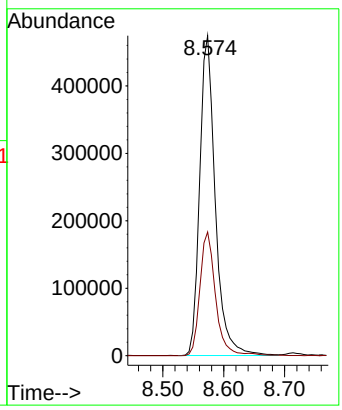




#51
4-Methyl-2-Pentanone
Concen: 274.116 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 43 Resp: 84583

Ion	Ratio	Lower	Upper
43	100		
58	39.0	30.6	45.8



Instrument :
MSVOA_X
ClientSampleId :
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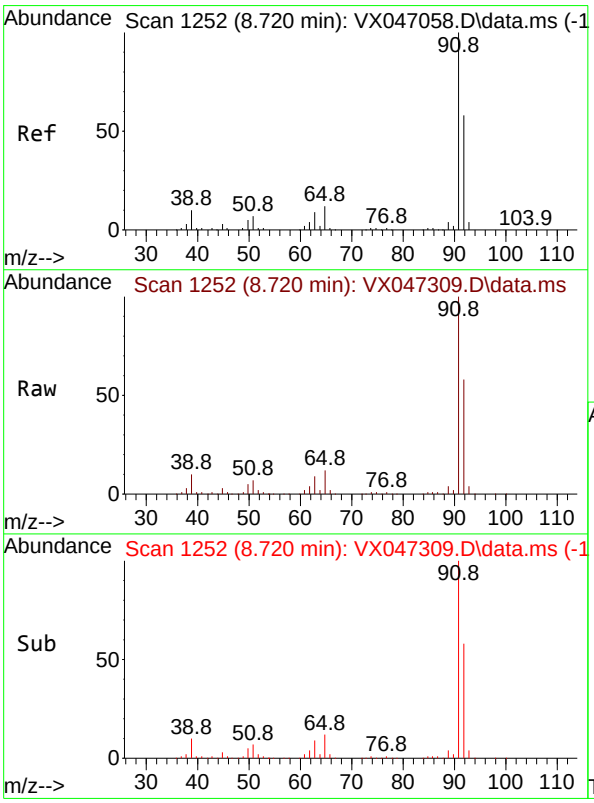
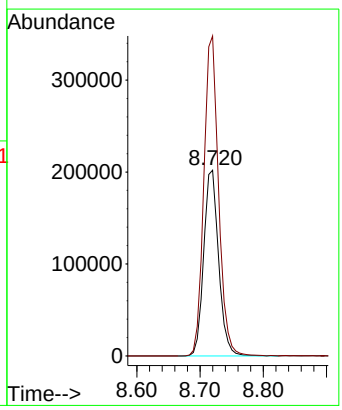
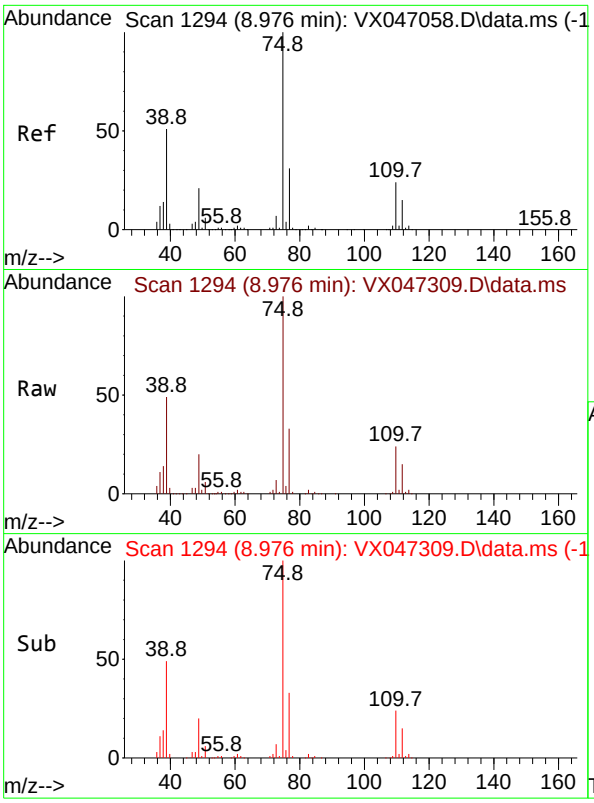


#52
Toluene
Concen: 51.598 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 92 Resp: 331807

Ion	Ratio	Lower	Upper
92	100		
91	169.9	137.9	206.9

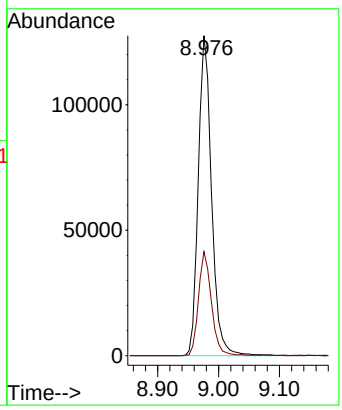




#53
t-1,3-Dichloropropene
Concen: 52.270 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 75 Resp: 19298

Ion	Ratio	Lower	Upper
75	100		
77	32.5	24.5	36.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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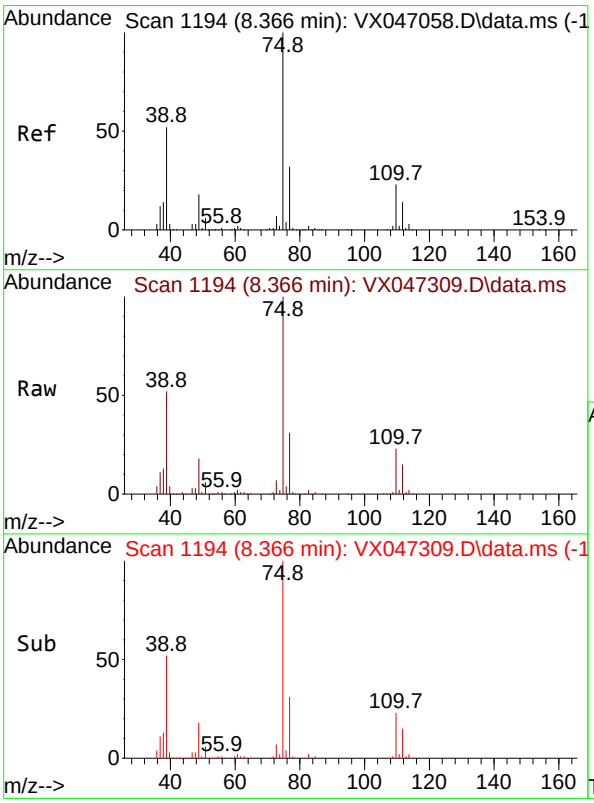
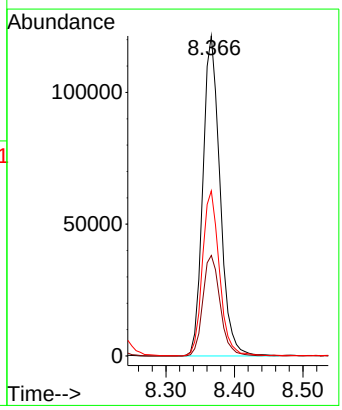
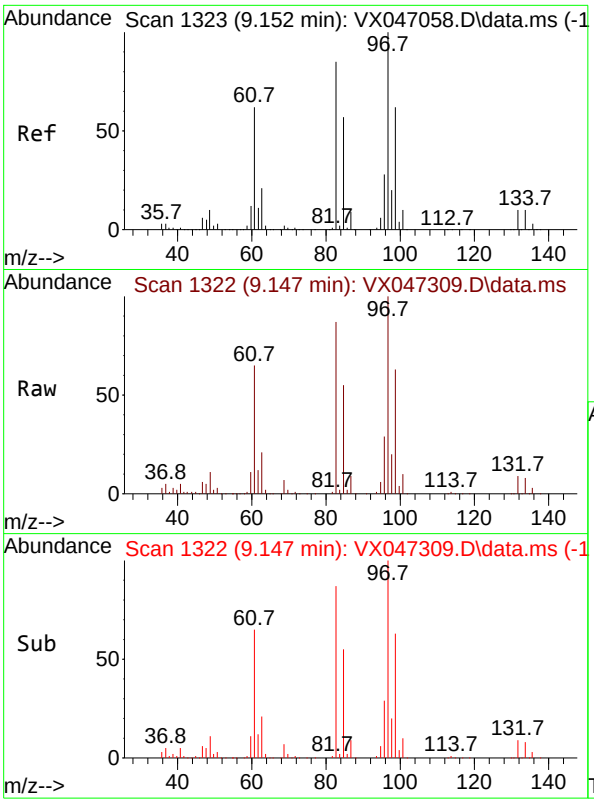


#54
cis-1,3-Dichloropropene
Concen: 52.423 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 75 Resp: 211833

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	50.8	41.8	62.6

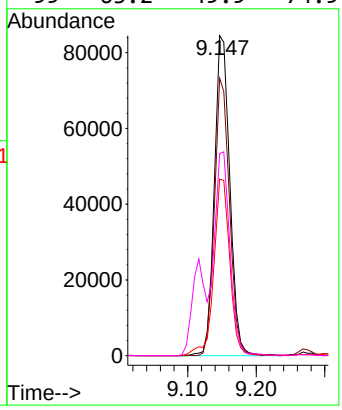




#55
1,1,2-Trichloroethane
Concen: 54.707 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 97 Resp: 13193

Ion	Ratio	Lower	Upper
97	100		
83	86.7	68.0	102.0
85	55.2	45.2	67.8
99	63.2	49.9	74.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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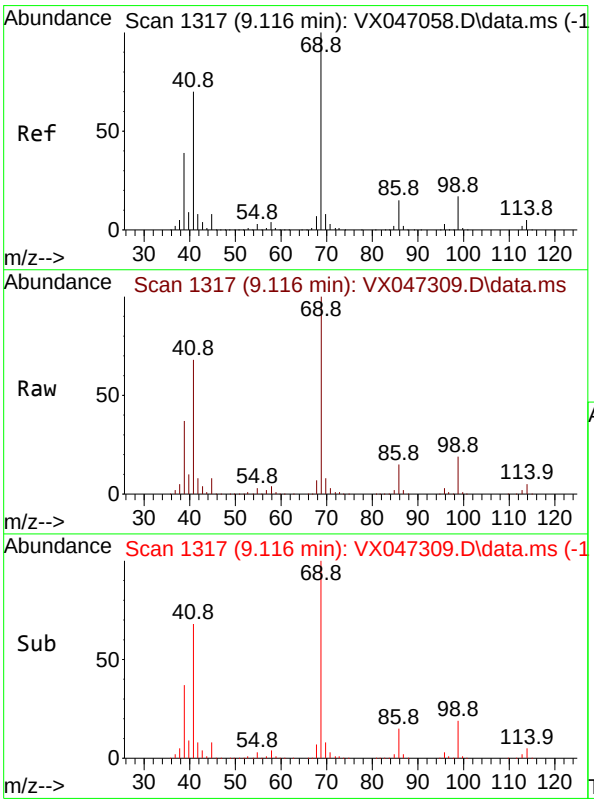
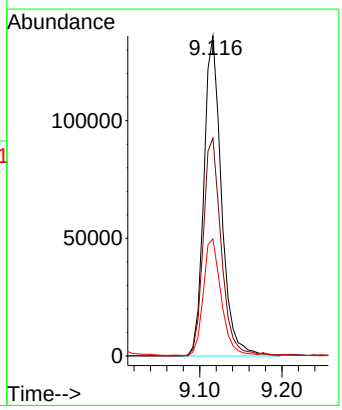
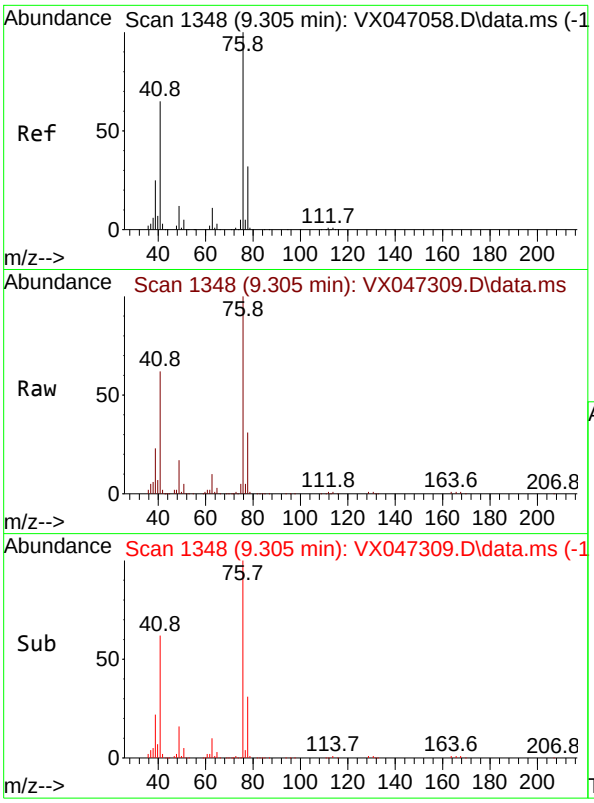


#56
Ethyl methacrylate
Concen: 56.604 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 69 Resp: 202090

Ion	Ratio	Lower	Upper
69	100		
41	69.9	56.1	84.1
39	36.8	31.1	46.7





#57
1,3-Dichloropropane
Concen: 53.892 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 76 Resp: 22588

Ion	Ratio	Lower	Upper
76	100		
78	31.6	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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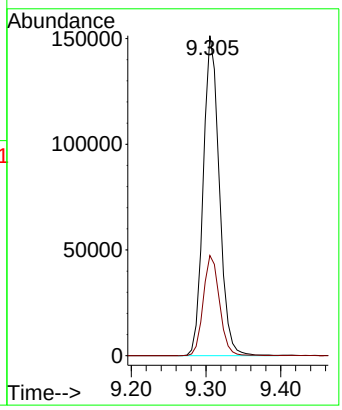
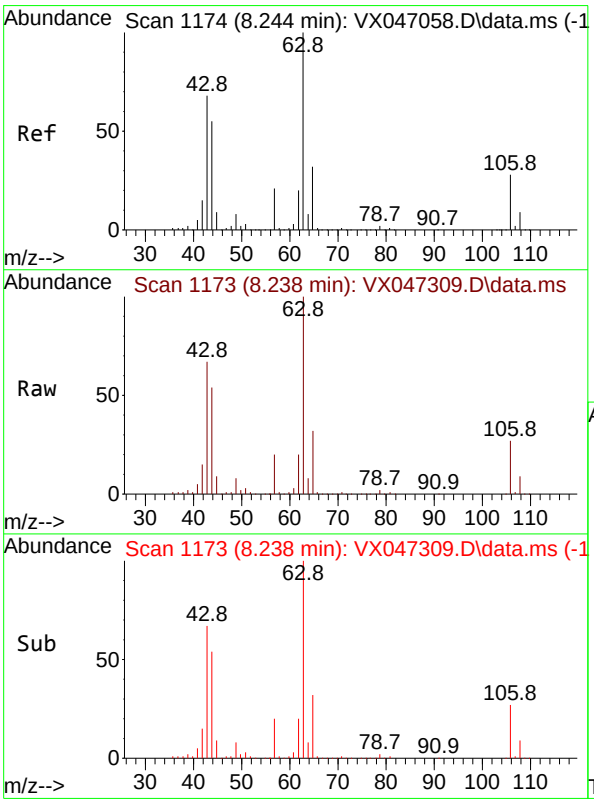
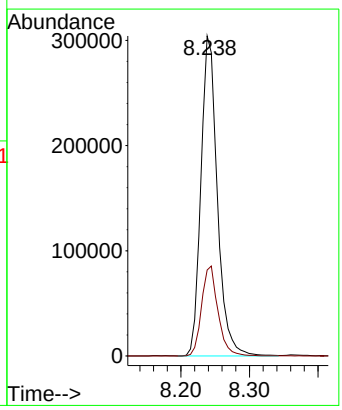


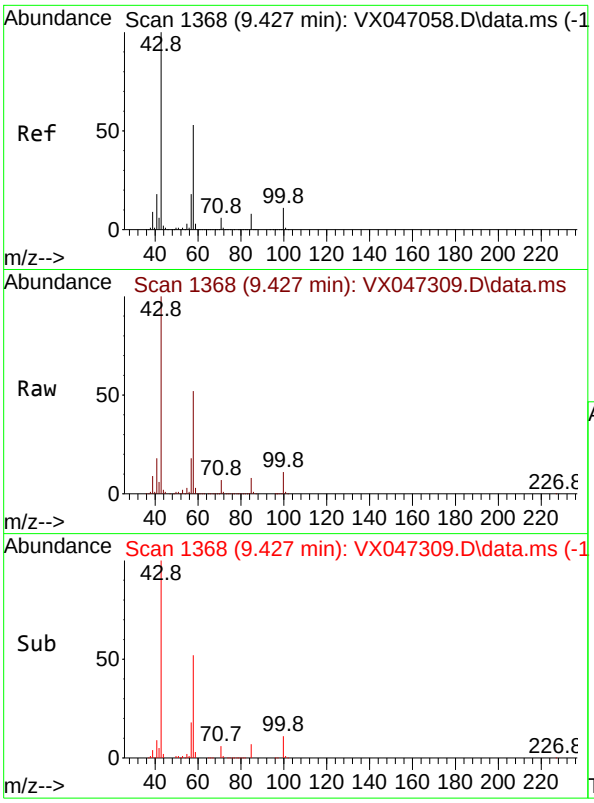


#58
2-Chloroethyl Vinyl ether
Concen: 255.533 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 63 Resp: 507677

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.2	33.4

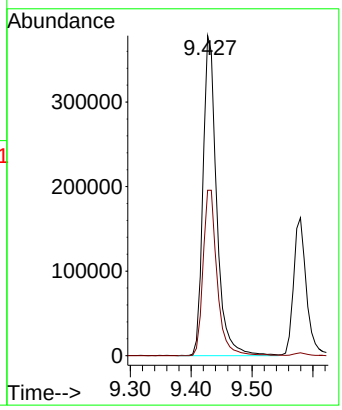




#59
2-Hexanone
Concen: 290.316 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 43 Resp: 59184

Ion	Ratio	Lower	Upper
43	100		
58	53.1	26.5	79.5



Instrument :
MSVOA_X
ClientSampleId :
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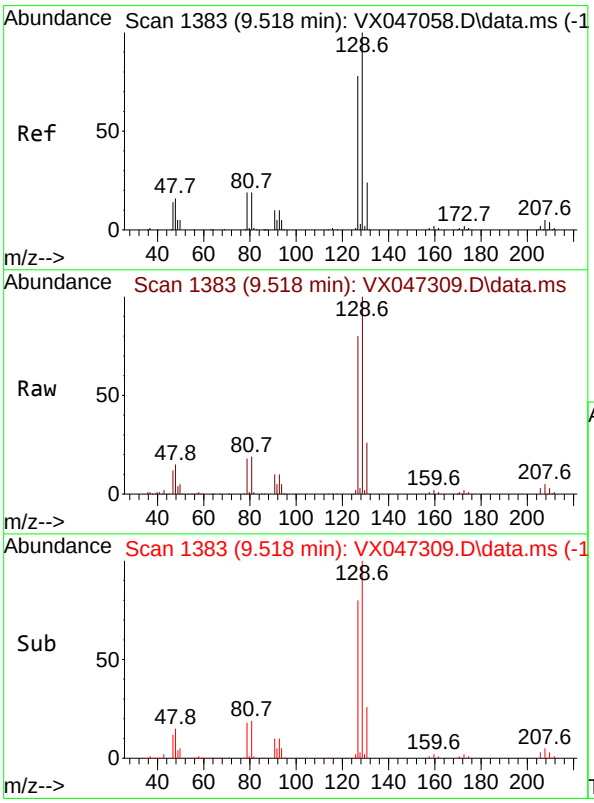
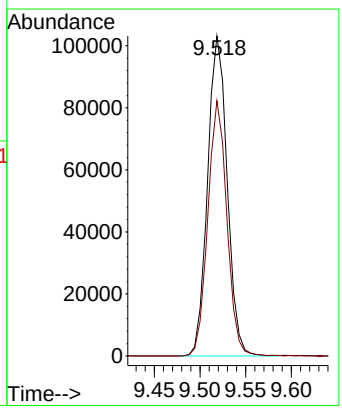
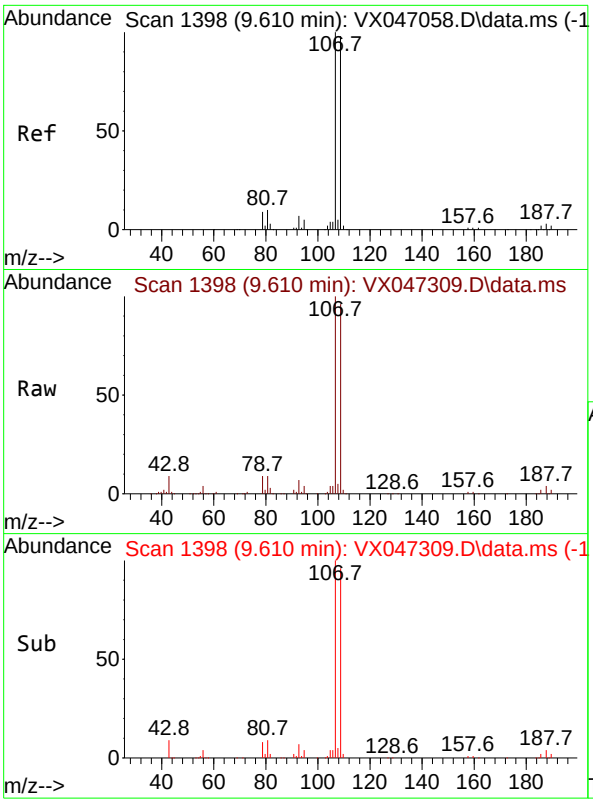


#60
Dibromochloromethane
Concen: 54.334 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:129 Resp: 153681

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.6	115.8

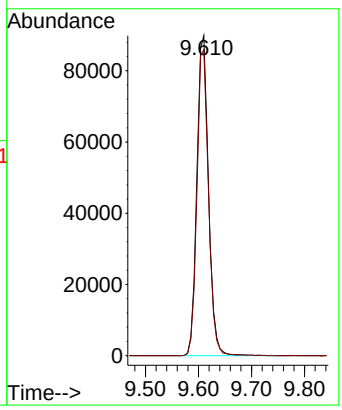




#61
1,2-Dibromoethane
Concen: 54.281 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:107 Resp: 13688

Ion	Ratio	Lower	Upper
107	100		
109	95.0	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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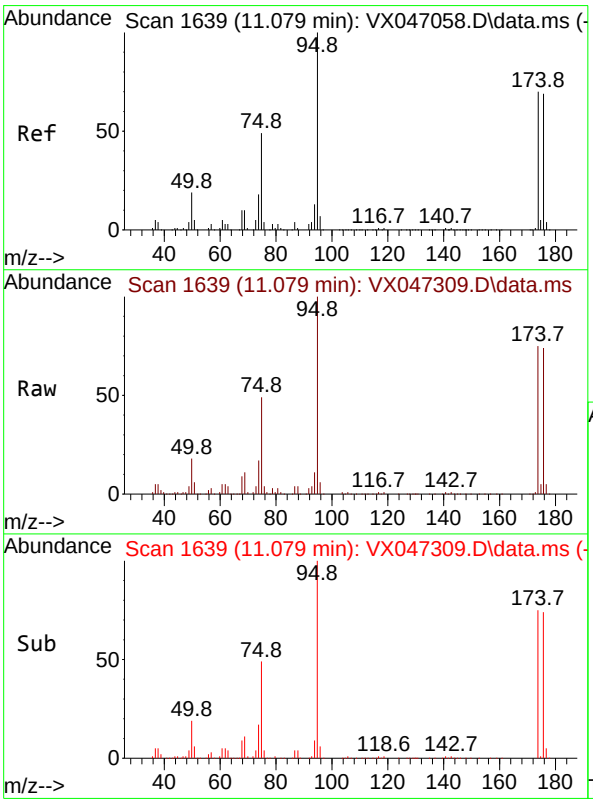
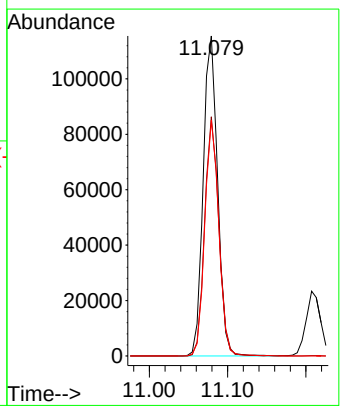
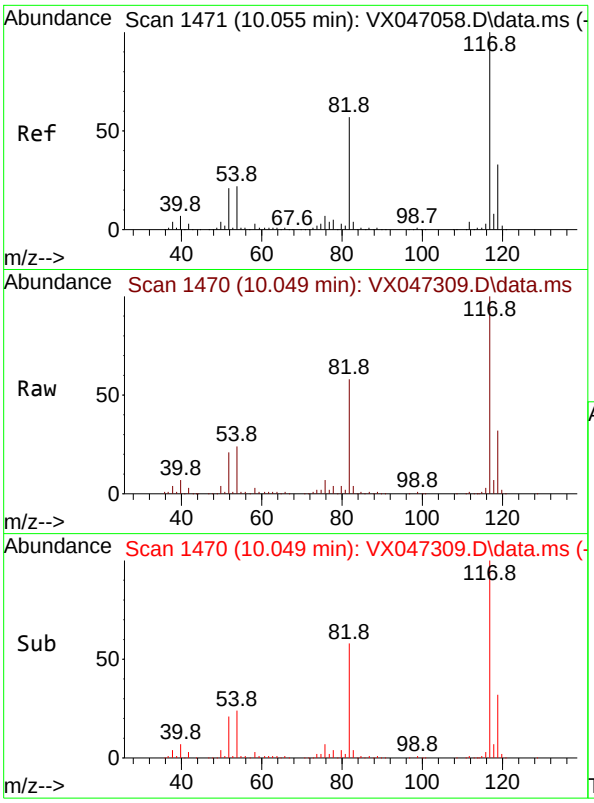


#62
4-Bromofluorobenzene
Concen: 49.666 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 95 Resp: 146951

Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	144.6
176	71.8	0.0	139.6

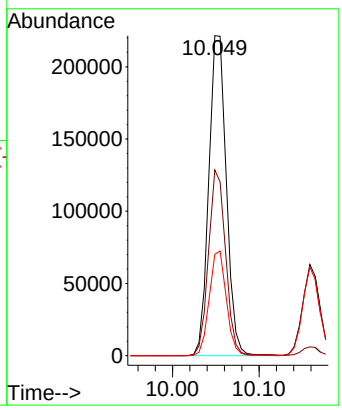




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:117 Resp: 31189

Ion	Ratio	Lower	Upper
117	100		
82	58.0	45.4	68.2
119	31.7	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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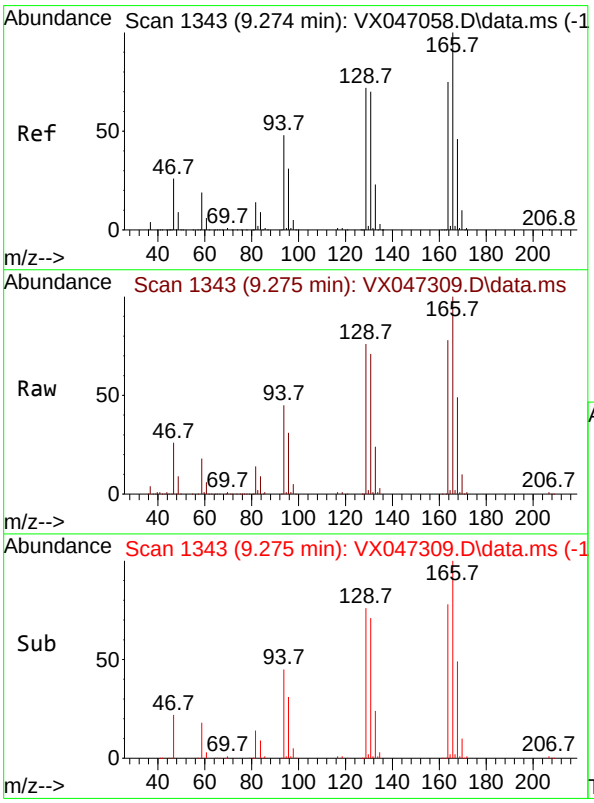
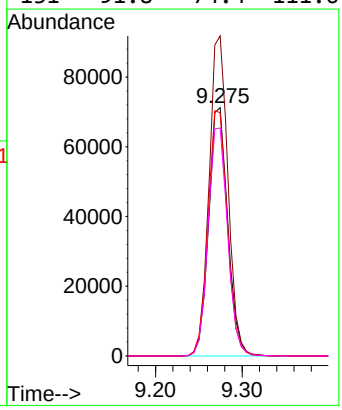
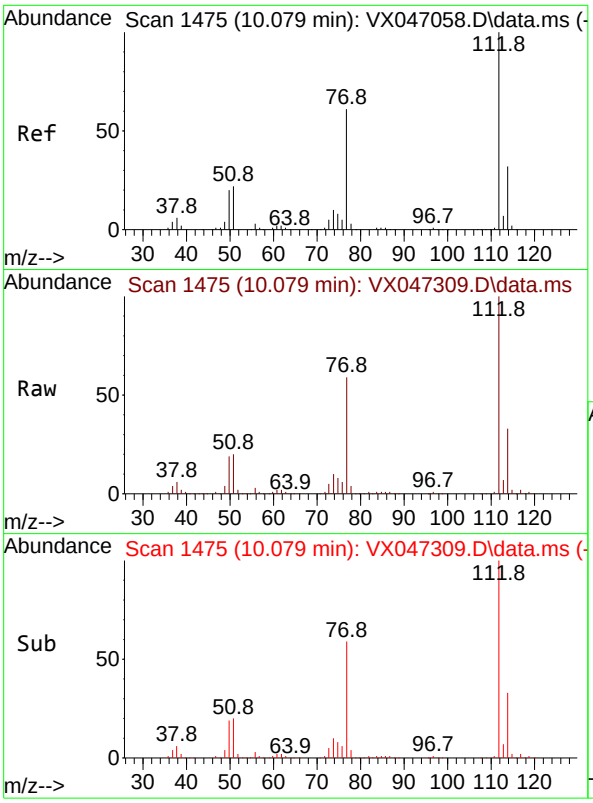


#64
Tetrachloroethene
Concen: 48.451 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:164 Resp: 108938

Ion	Ratio	Lower	Upper
164	100		
166	128.9	106.2	159.4
129	98.0	76.6	114.8
131	91.8	74.4	111.6

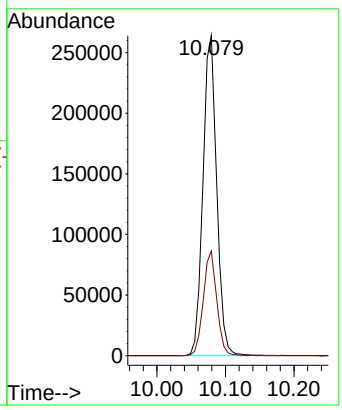




#65
Chlorobenzene
Concen: 50.536 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:112 Resp: 36925

Ion	Ratio	Lower	Upper
112	100		
114	32.7	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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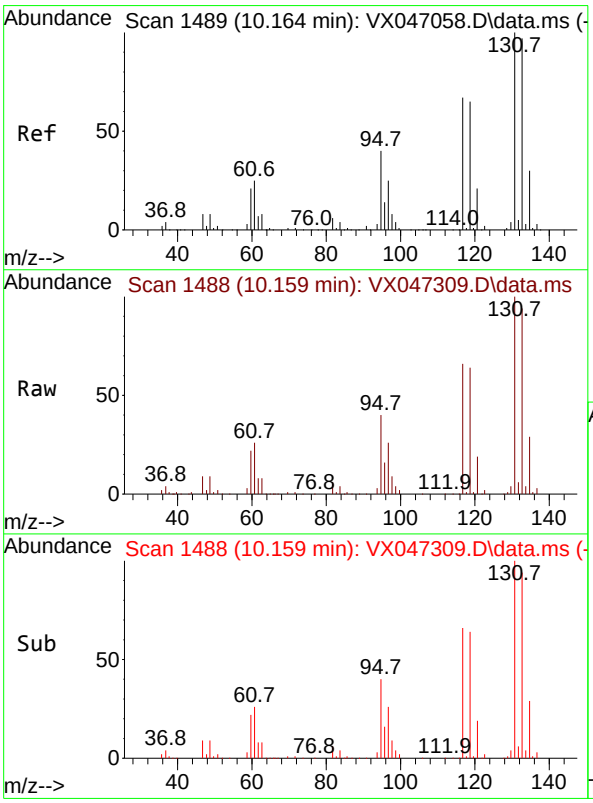
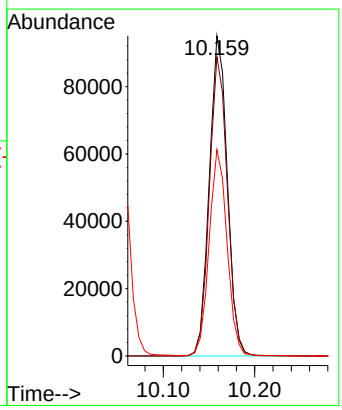
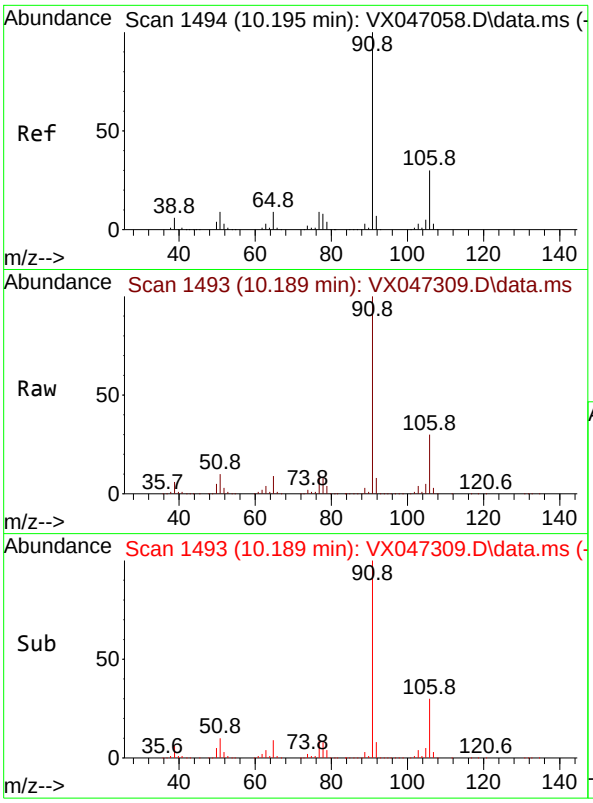


#66
1,1,1,2-Tetrachloroethane
Concen: 52.854 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:131 Resp: 130021

Ion	Ratio	Lower	Upper
131	100		
133	93.6	48.4	145.3
119	64.0	32.4	97.0





#67
Ethyl Benzene
Concen: 50.127 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 91 Resp: 64038

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.2	36.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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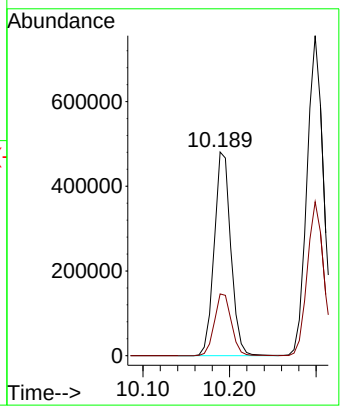
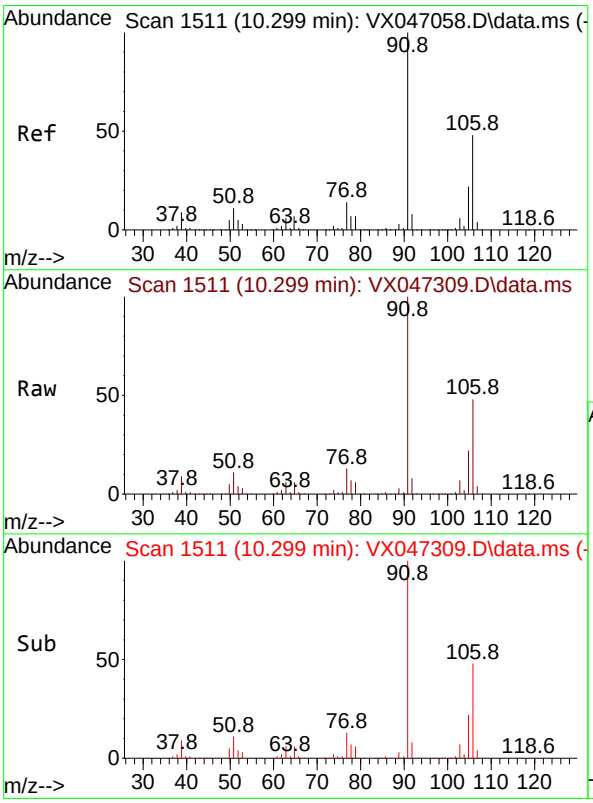
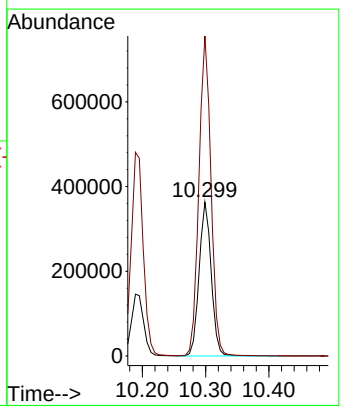


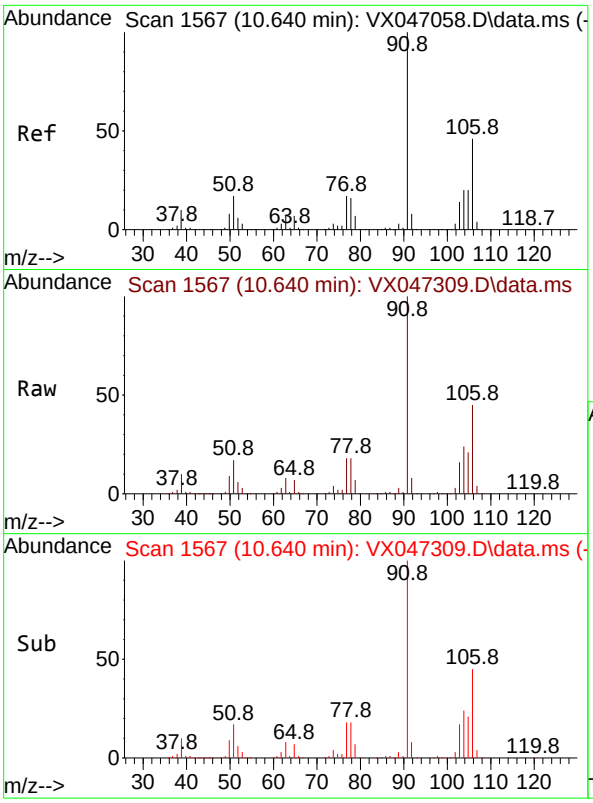


#68
m/p-Xylenes
Concen: 100.800 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:106 Resp: 481905

Ion	Ratio	Lower	Upper
106	100		
91	208.6	167.4	251.0

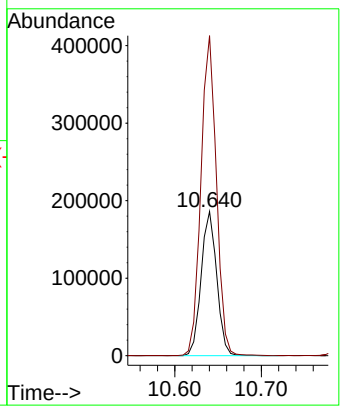




#69
o-Xylene
Concen: 51.121 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:106 Resp: 23250

Ion	Ratio	Lower	Upper
106	100		
91	220.5	110.3	331.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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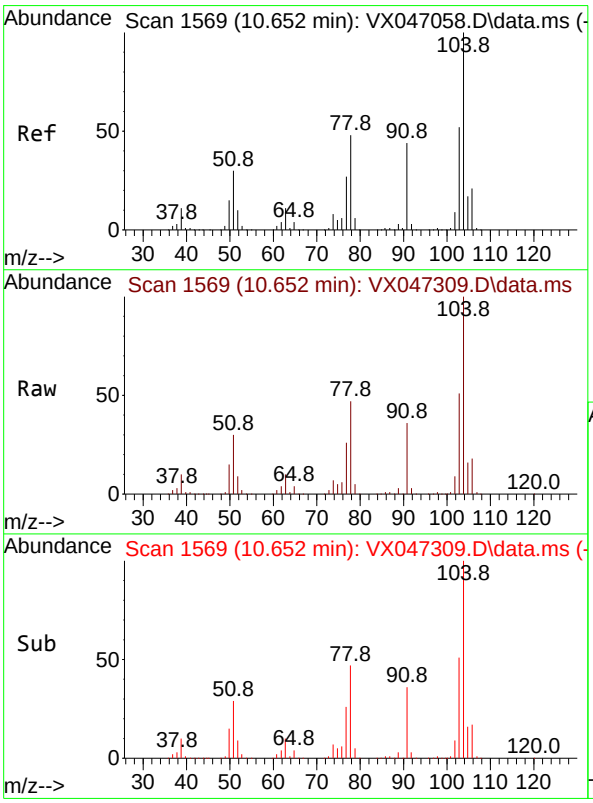
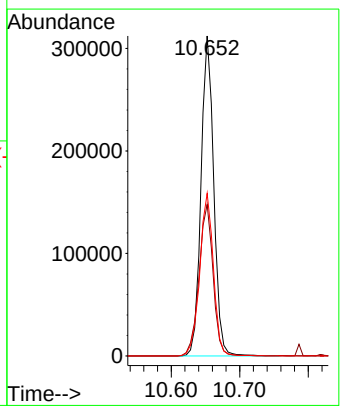
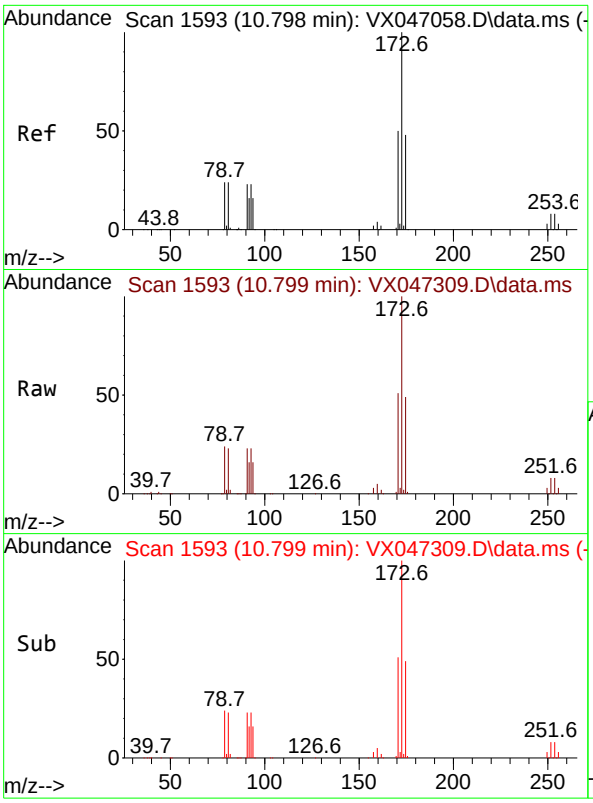


#70
Styrene
Concen: 51.852 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:104 Resp: 404384

Ion	Ratio	Lower	Upper
104	100		
78	52.4	42.0	63.0
103	54.7	43.8	65.6

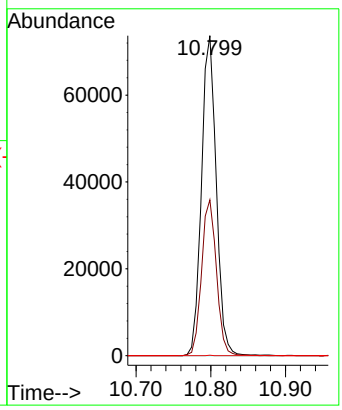




#71
Bromoform
Concen: 54.108 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:173 Resp: 10111

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.2	72.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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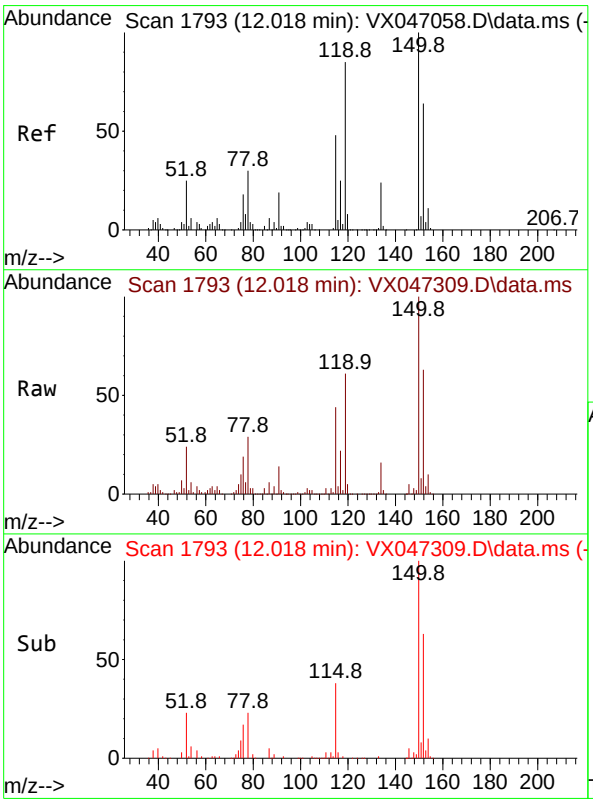
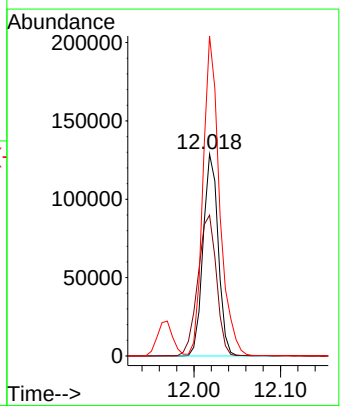
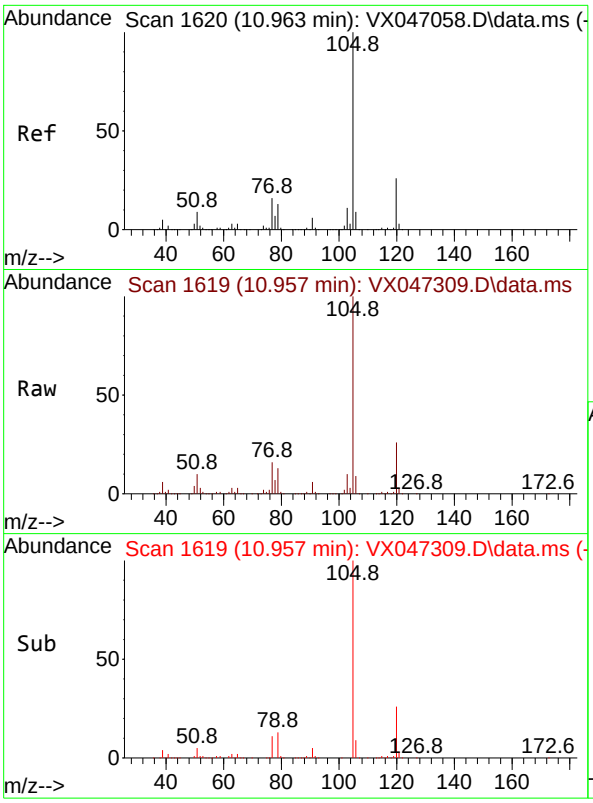


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:152 Resp: 156059

Ion	Ratio	Lower	Upper
152	100		
115	85.9	45.6	136.7
150	173.3	0.0	354.6





#73
Isopropylbenzene
Concen: 48.889 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:105 Resp: 60192

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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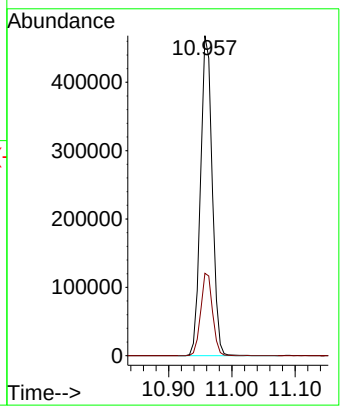
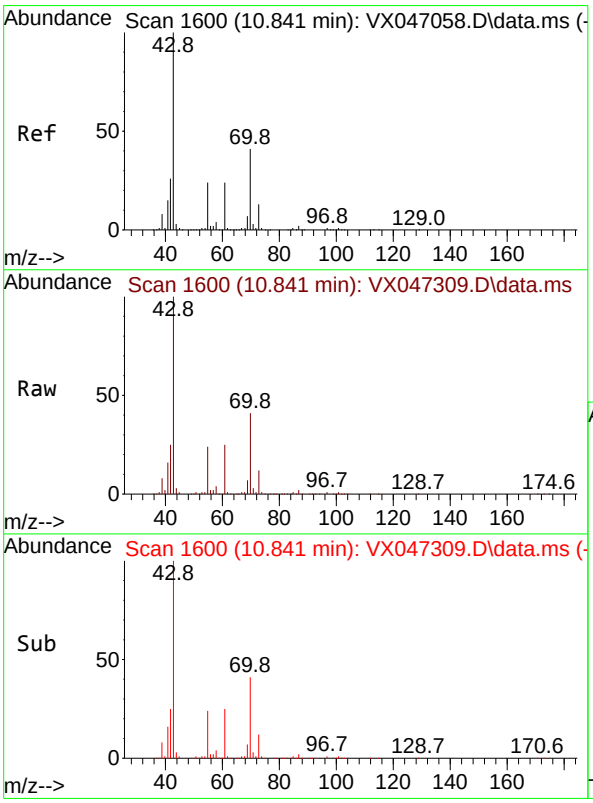
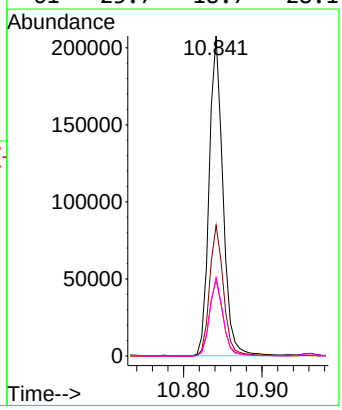


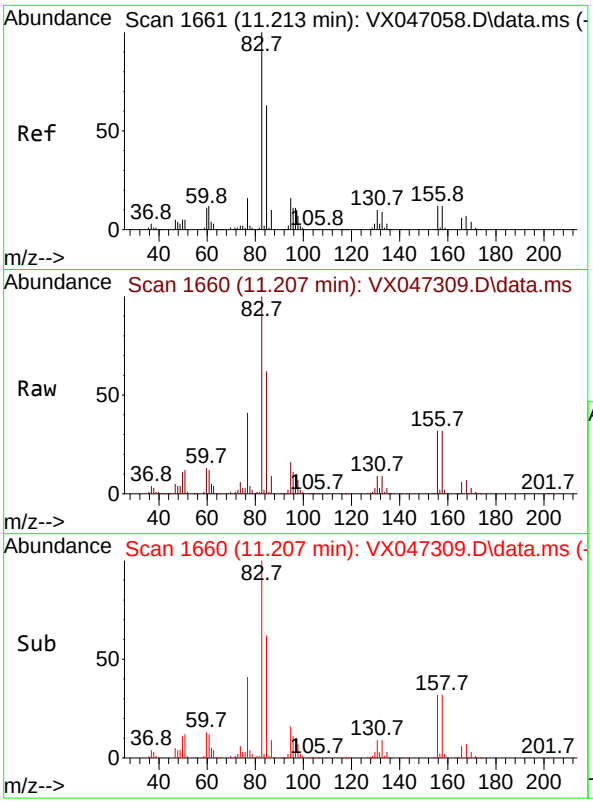


#74
N-amyl acetate
Concen: 51.043 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 43 Resp: 253569

Ion	Ratio	Lower	Upper
43	100		
70	41.0	32.3	48.5
55	23.9	18.9	28.3
61	23.7	18.7	28.1

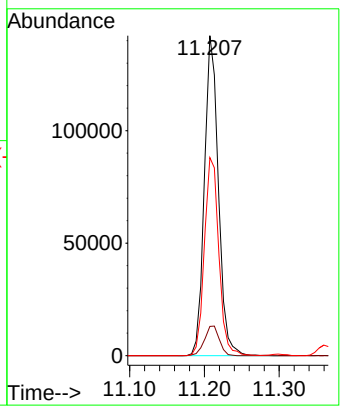




#75
1,1,2,2-Tetrachloroethane
Concen: 52.547 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 83 Resp: 18480

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	63.8	32.0	96.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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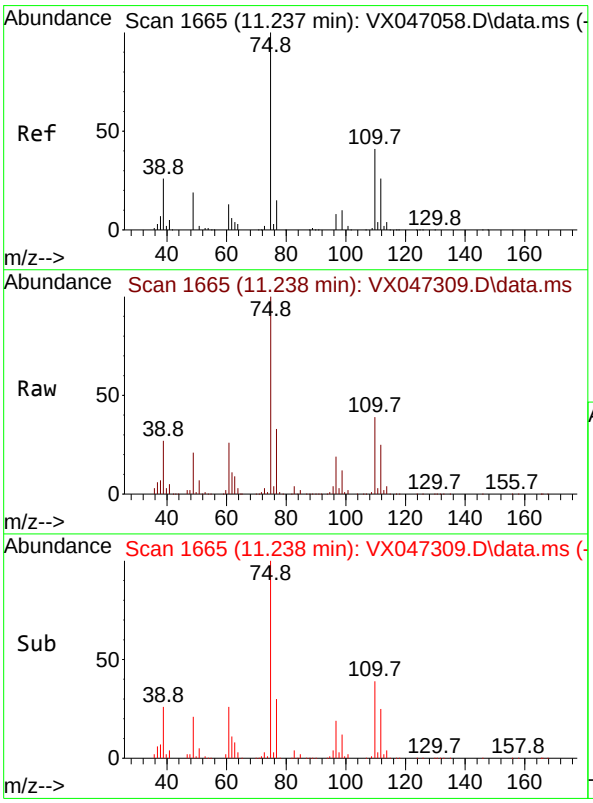
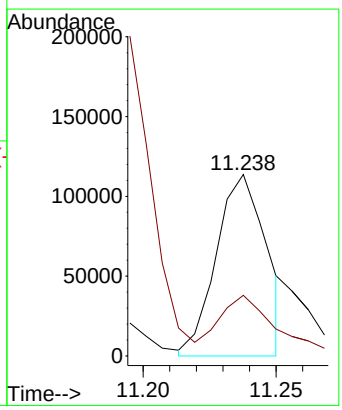
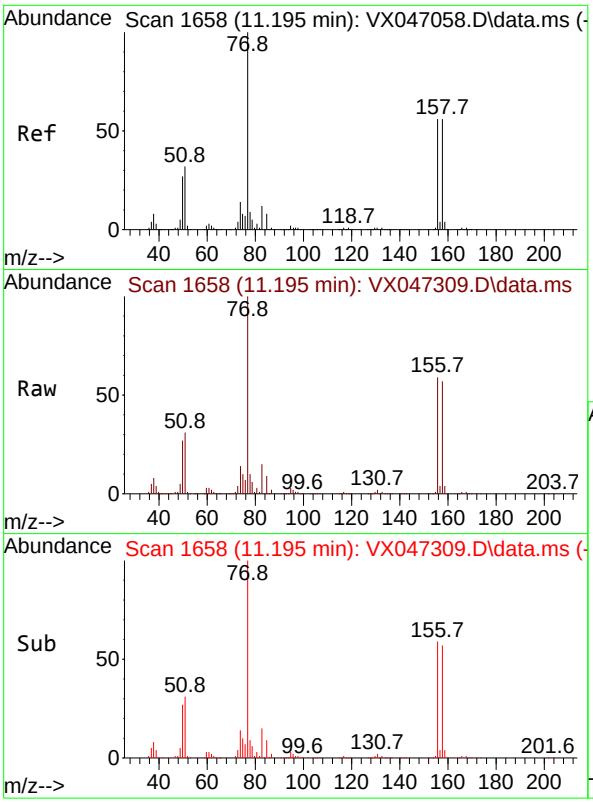


#76
1,2,3-Trichloropropane
Concen: 51.525 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 75 Resp: 148834

Ion	Ratio	Lower	Upper
75	100		
77	38.8	21.6	65.0

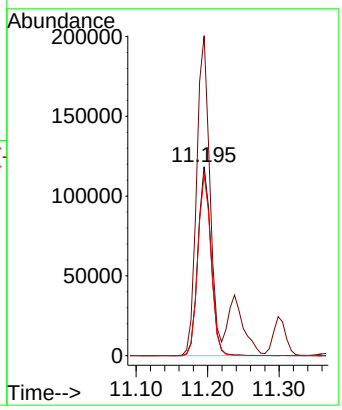




#77
Bromobenzene
Concen: 50.657 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:156 Resp: 14959

Ion	Ratio	Lower	Upper
156	100		
77	171.6	87.3	261.9
158	96.9	48.9	146.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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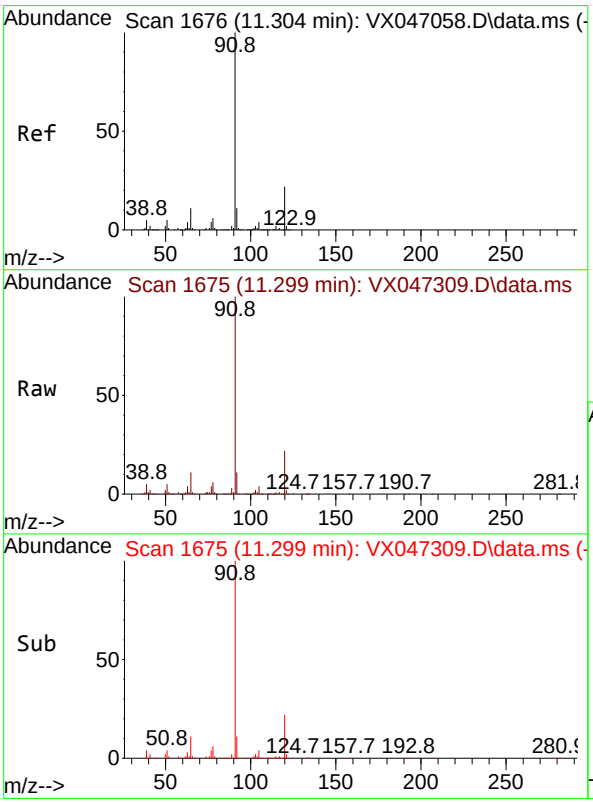
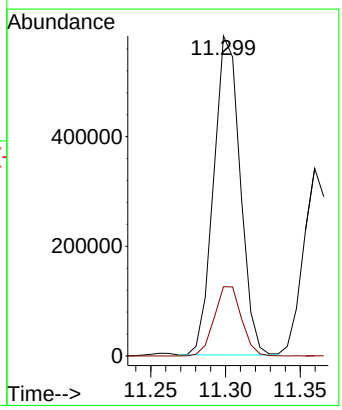
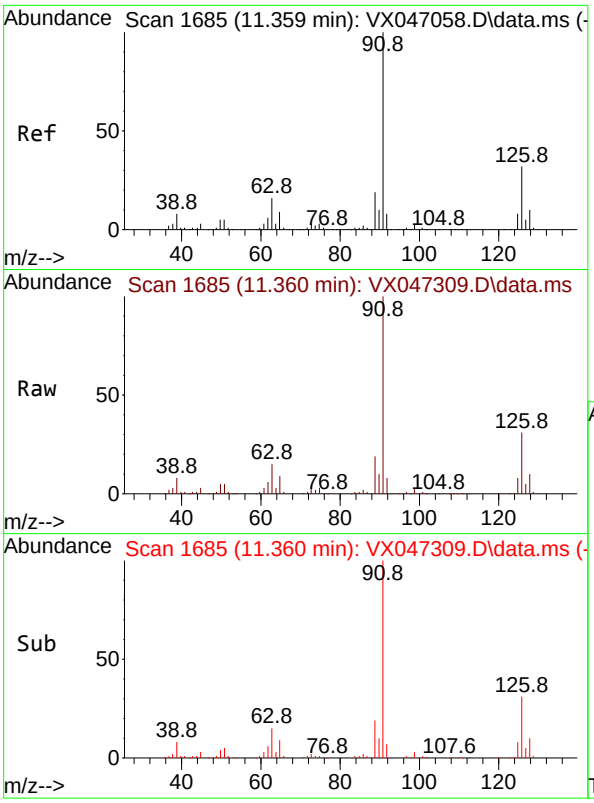


#78
n-propylbenzene
Concen: 48.787 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 91 Resp: 717788

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.0	33.0





#79
2-Chlorotoluene
Concen: 48.791 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 91 Resp: 42910

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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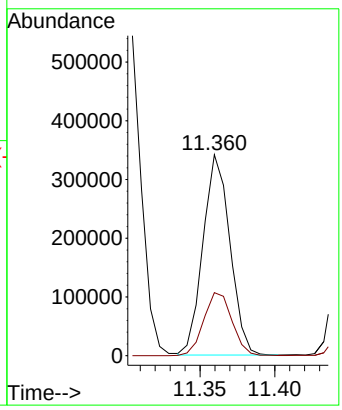
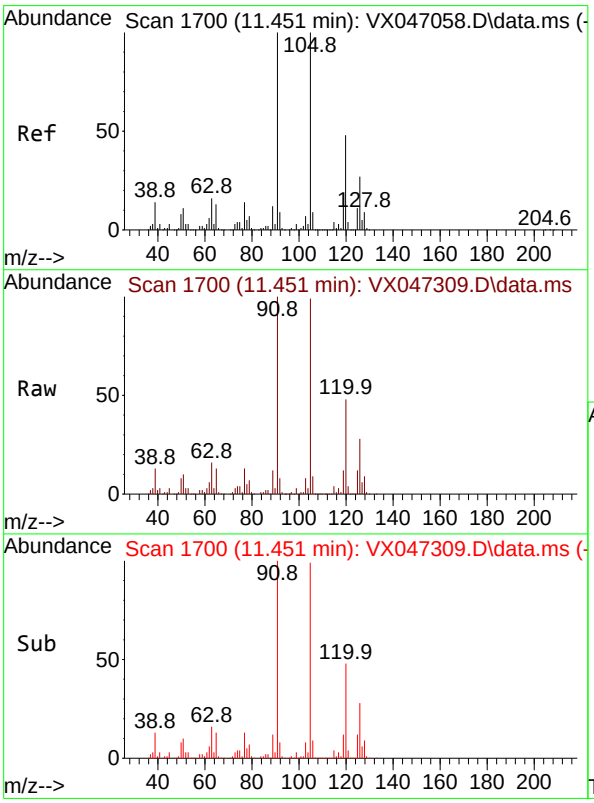
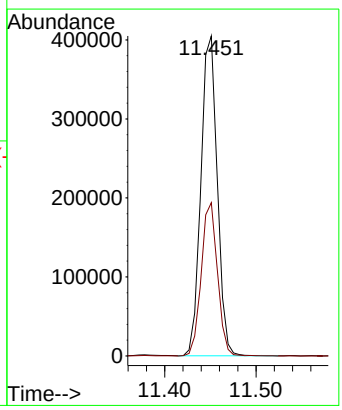


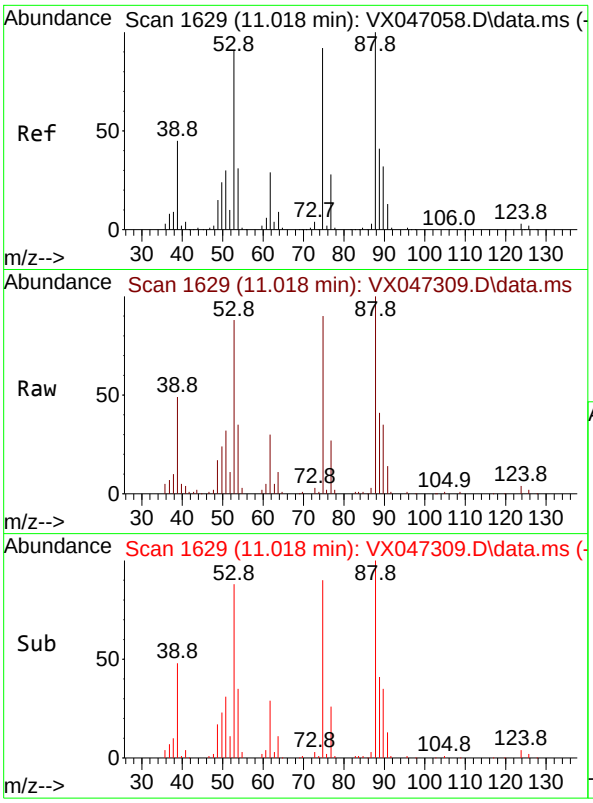


#80
1,3,5-Trimethylbenzene
Concen: 49.416 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:105 Resp: 502646

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.8	71.5

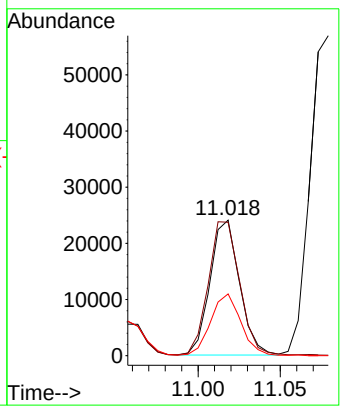




#81
trans-1,4-Dichloro-2-butene
Concen: 26.822 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 75 Resp: 3007

Ion	Ratio	Lower	Upper
75	100		
53	106.8	84.2	126.4
89	47.2	36.0	54.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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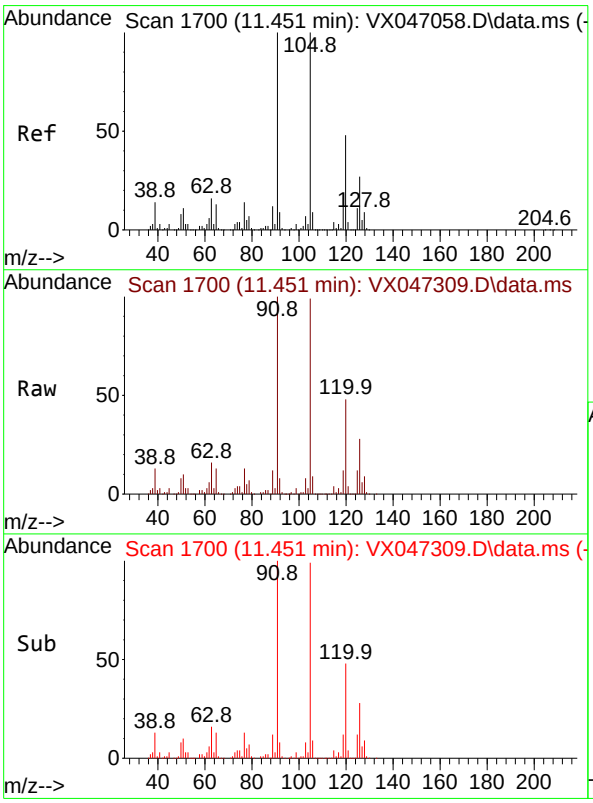
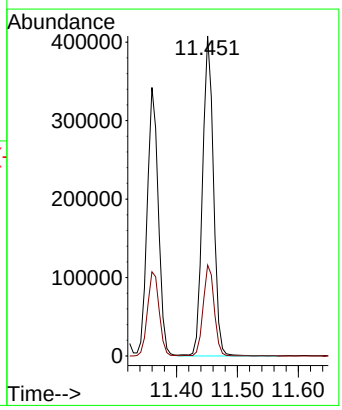
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

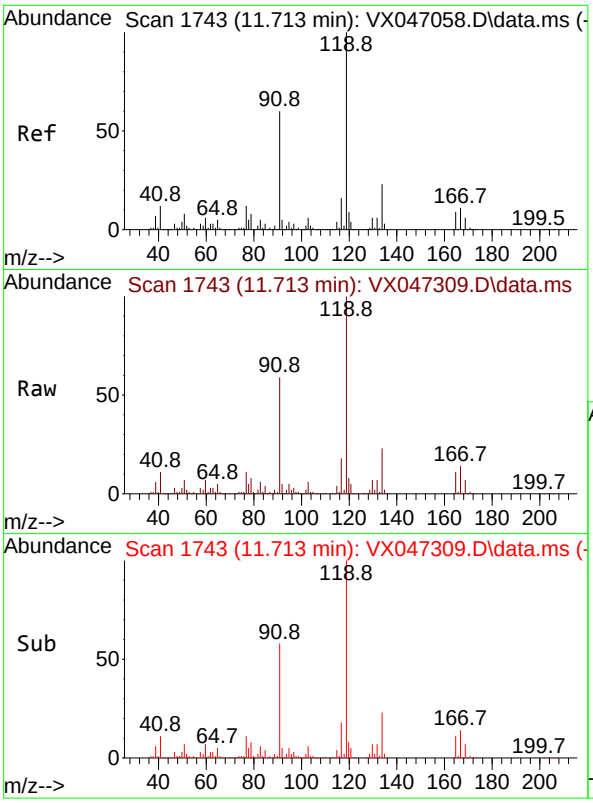


#82
4-Chlorotoluene
Concen: 49.625 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 91 Resp: 509422

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.1	42.3

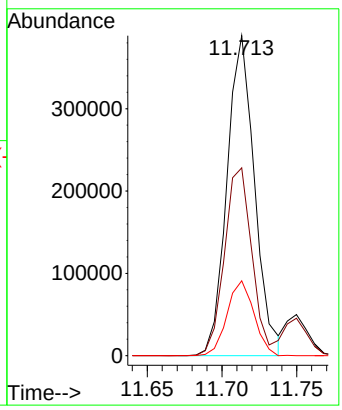




#83
tert-Butylbenzene
Concen: 48.901 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:119 Resp: 49924

Ion	Ratio	Lower	Upper
119	100		
91	58.0	29.6	88.8
134	22.8	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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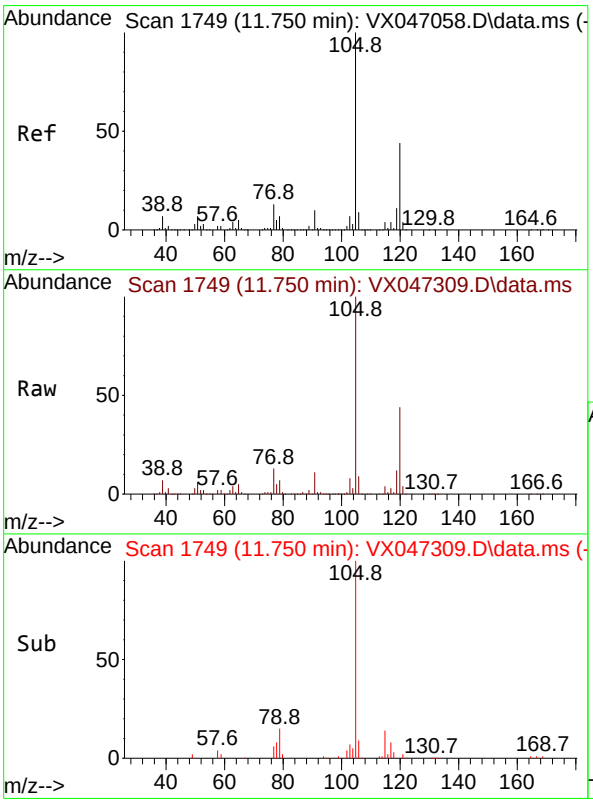
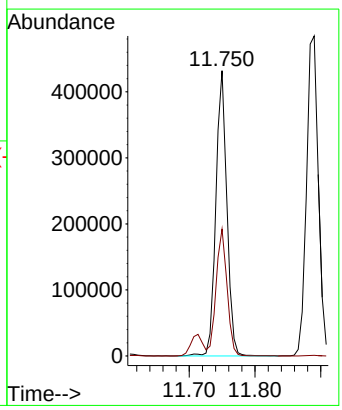
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

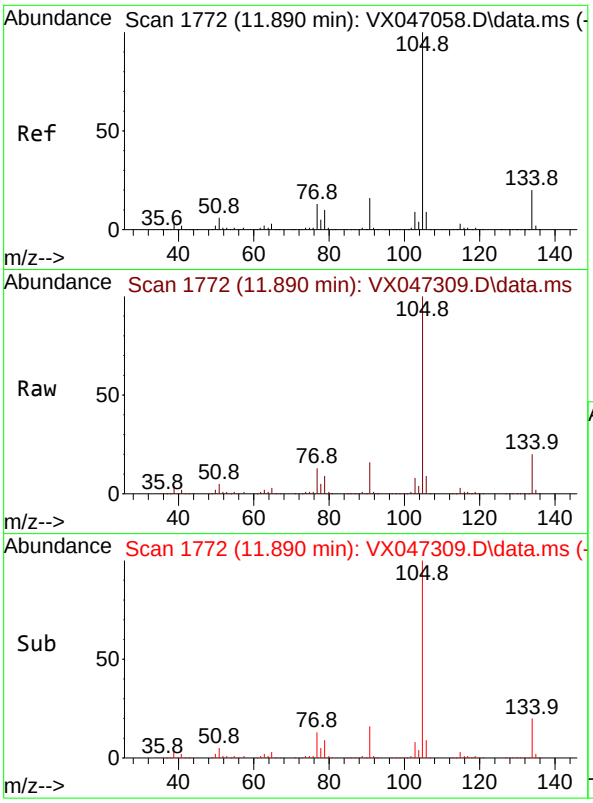


#84
1,2,4-Trimethylbenzene
Concen: 49.654 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:105 Resp: 503767

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.0	66.0

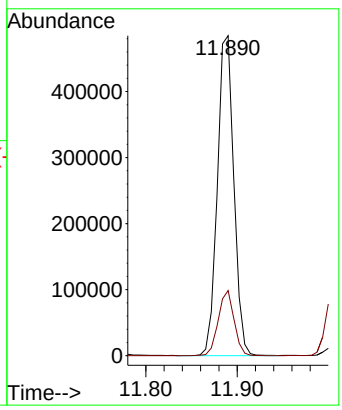




#85
sec-Butylbenzene
Concen: 47.627 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:105 Resp: 60752

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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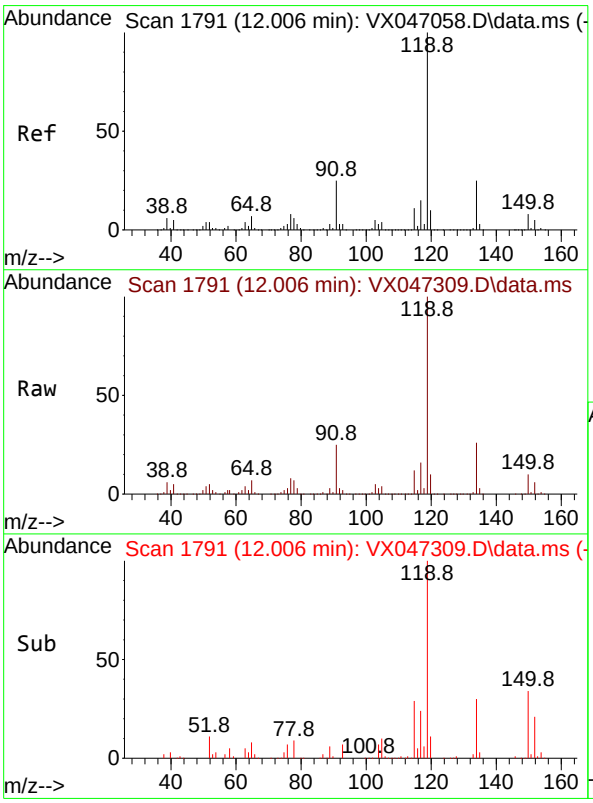
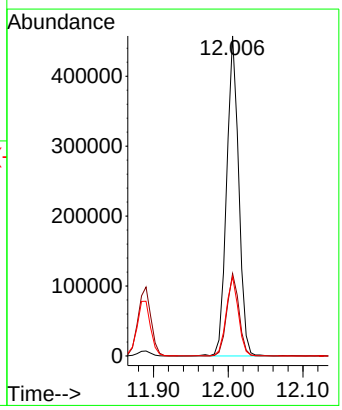
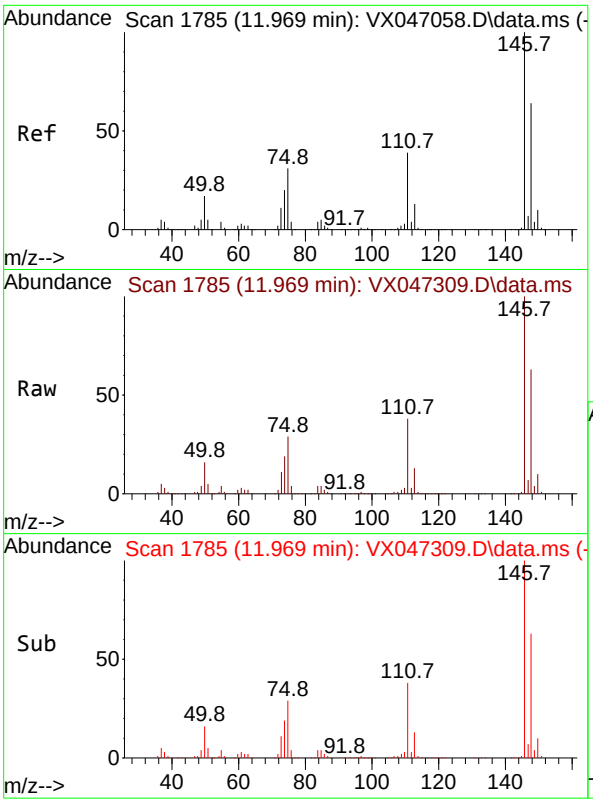


#86
p-Isopropyltoluene
Concen: 48.530 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:119 Resp: 513359

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.8	38.4
91	24.8	12.4	37.4

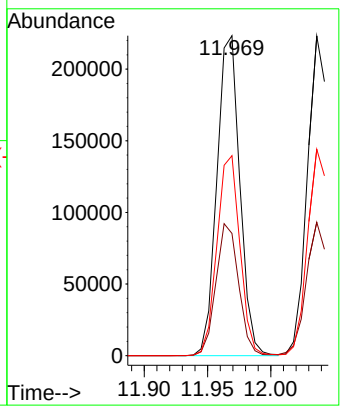




#87
1,3-Dichlorobenzene
Concen: 50.187 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:146 Resp: 28160

Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.0	63.0
148	62.7	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 08/14/2025
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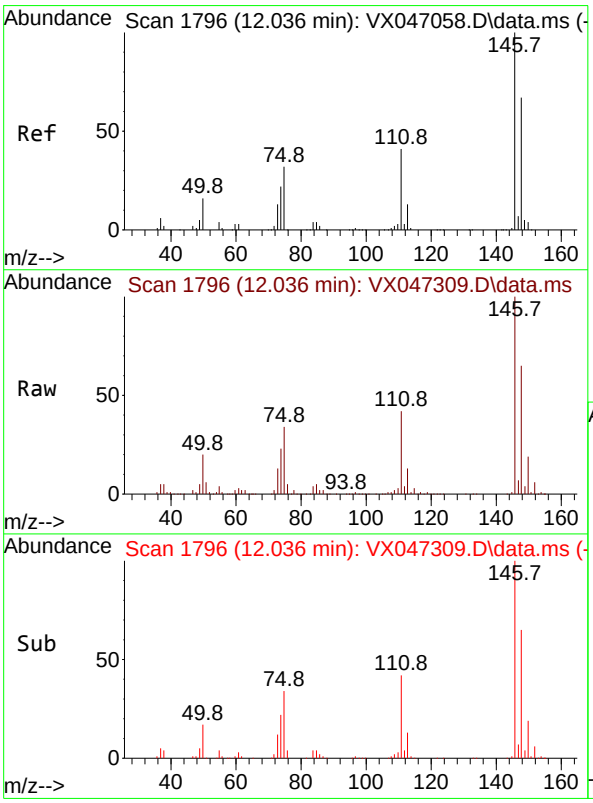
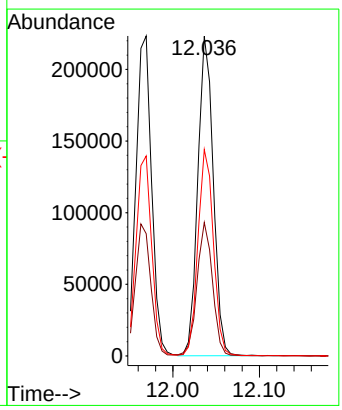
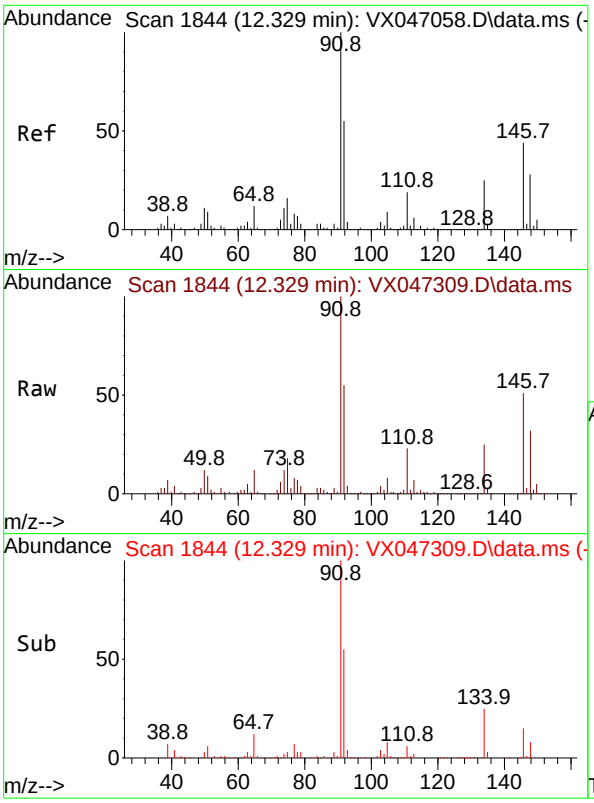


#88
1,4-Dichlorobenzene
Concen: 48.680 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:146 Resp: 276736

Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.6	61.9
148	65.0	33.0	98.9

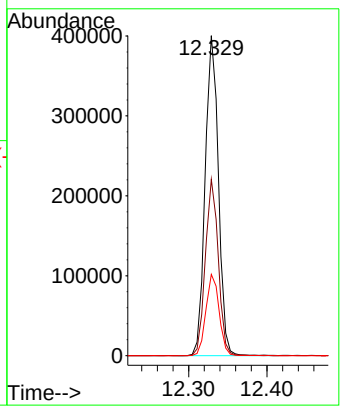




#89
n-Butylbenzene
Concen: 47.162 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 91 Resp: 46785

Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.5	82.5
134	25.4	12.8	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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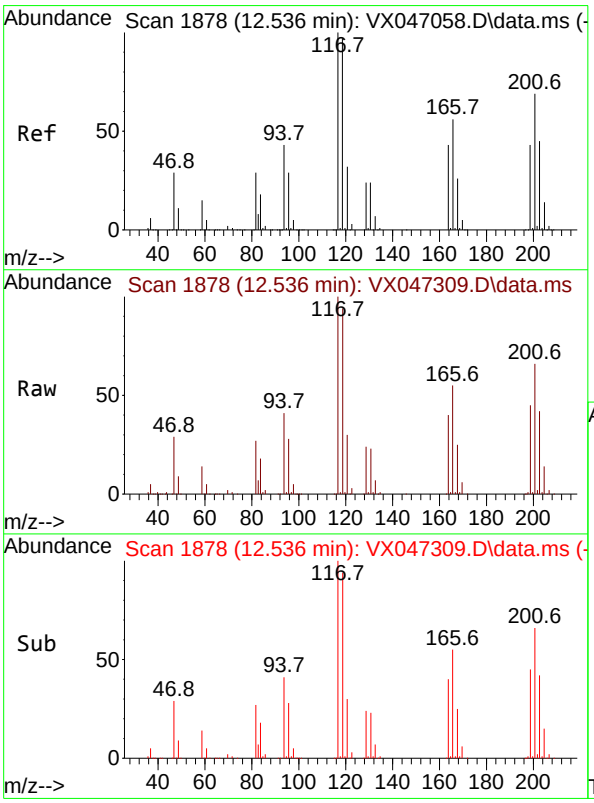
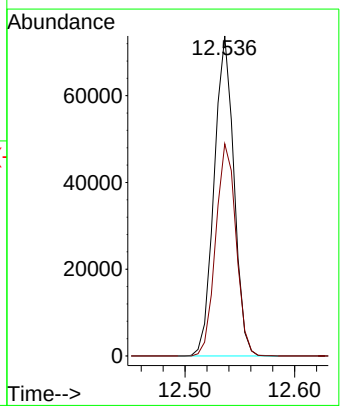
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

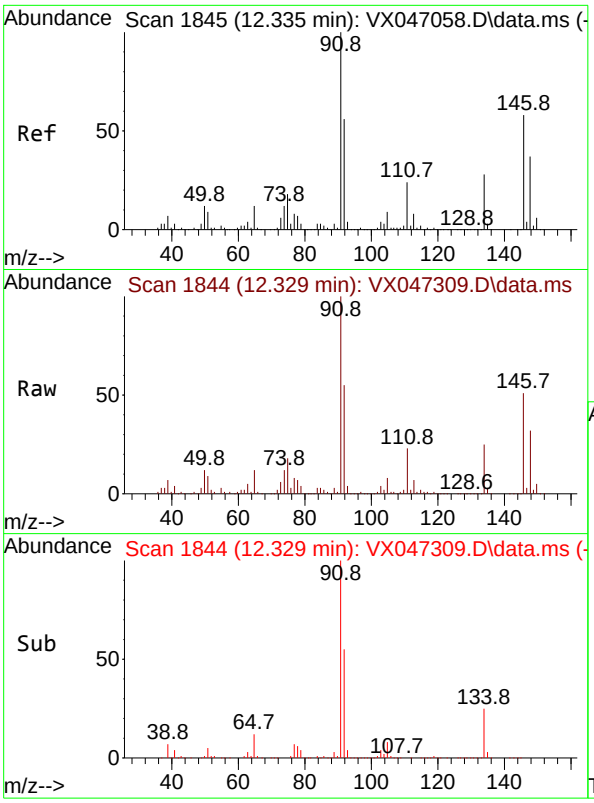


#90
Hexachloroethane
Concen: 48.954 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:117 Resp: 92640

Ion	Ratio	Lower	Upper
117	100		
201	68.1	34.8	104.5

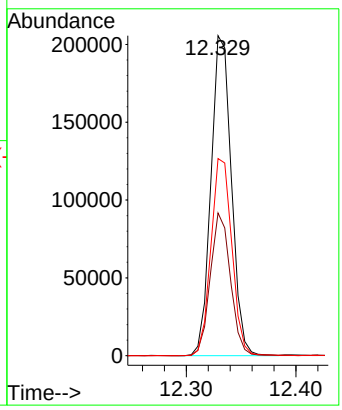




#91
1,2-Dichlorobenzene
Concen: 49.711 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:146 Resp: 26659

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.6	64.6
148	63.2	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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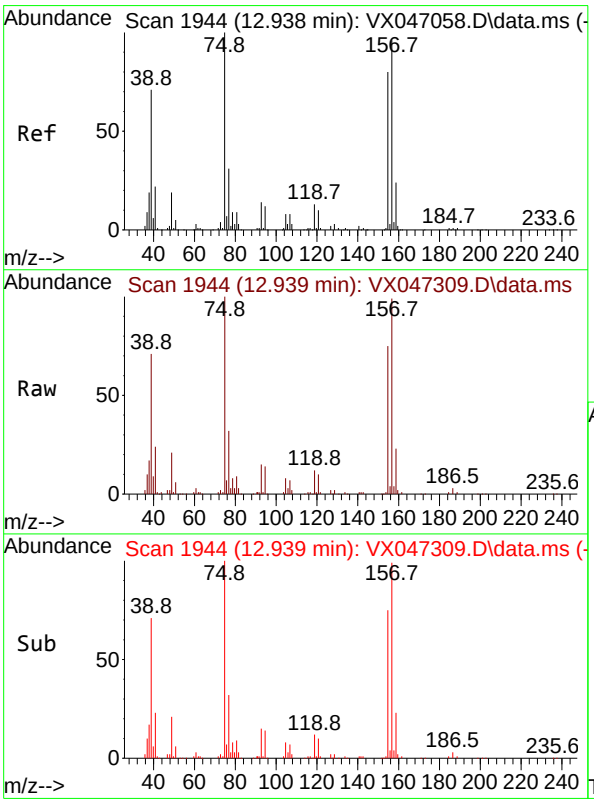
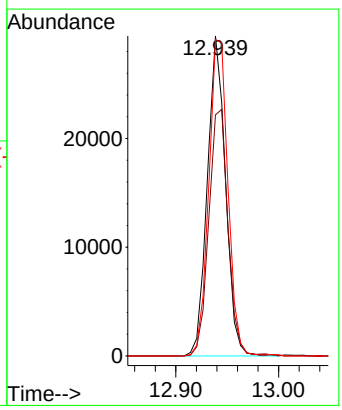
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

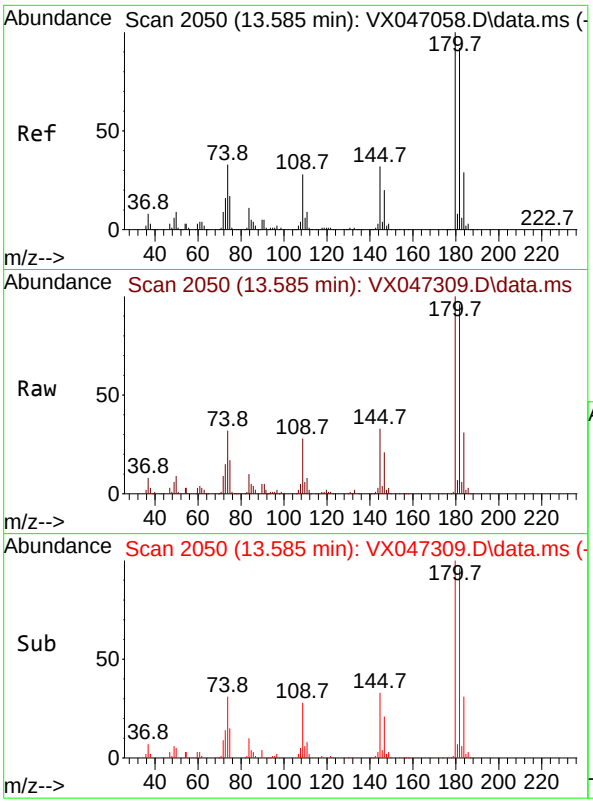


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.598 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 75 Resp: 36183

Ion	Ratio	Lower	Upper
75	100		
155	81.4	41.3	124.1
157	104.4	52.8	158.3

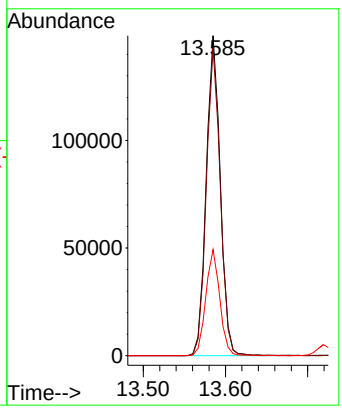




#93
1,2,4-Trichlorobenzene
Concen: 49.902 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:180 Resp: 17681

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.3	141.8
145	32.9	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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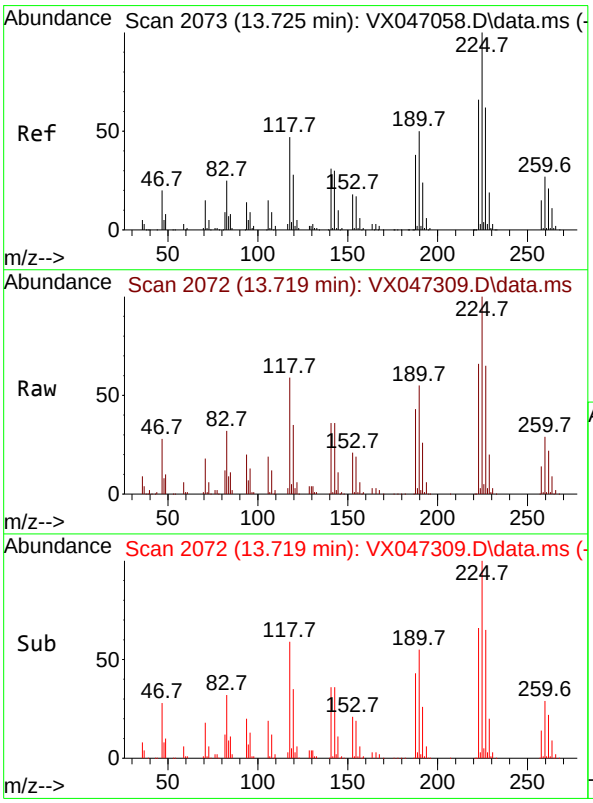
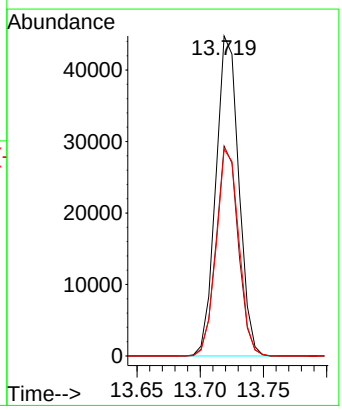
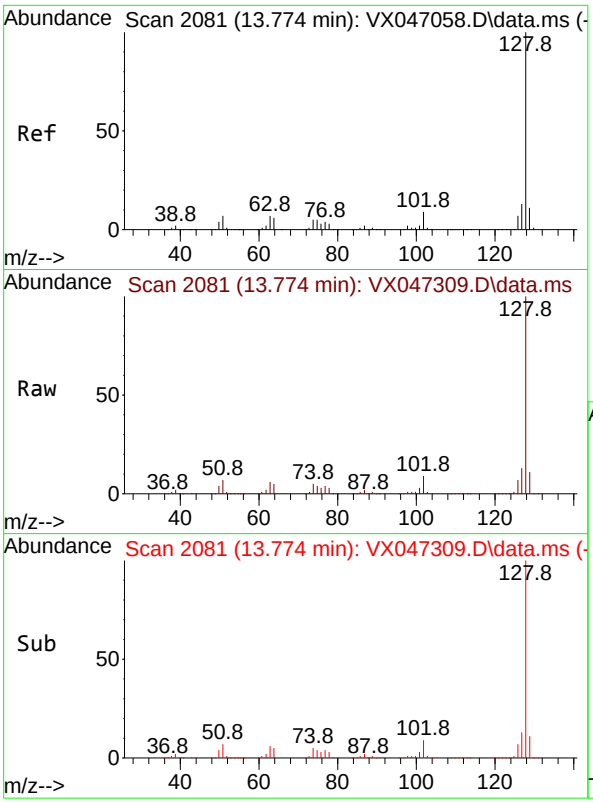


#94
Hexachlorobutadiene
Concen: 46.711 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:225 Resp: 56288

Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.6	95.0
227	63.8	32.9	98.6

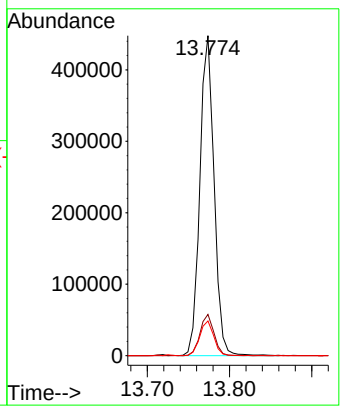




#95
Naphthalene
Concen: 51.782 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:128 Resp: 53787

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.8	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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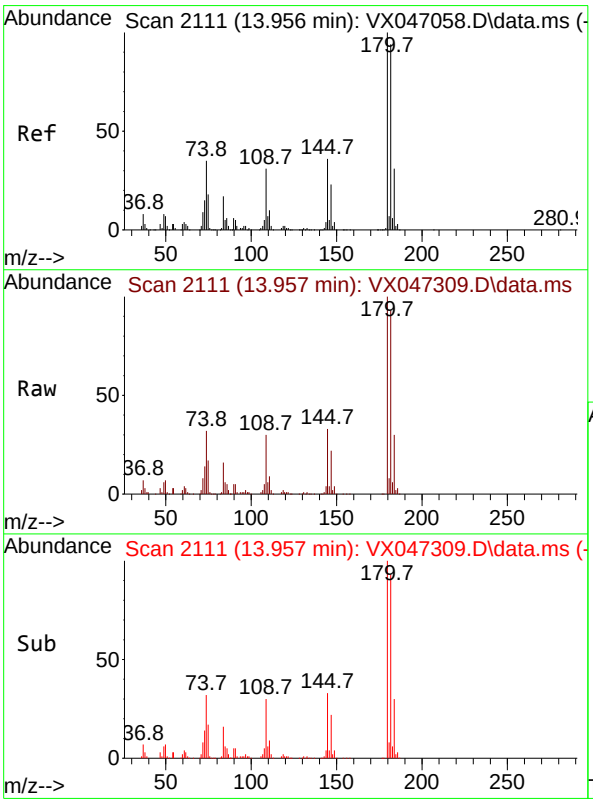
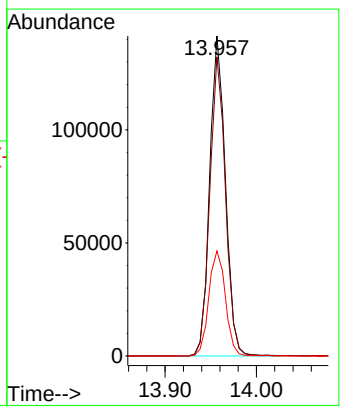


#96
1,2,3-Trichlorobenzene
Concen: 49.440 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:180 Resp: 168763

Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.9	140.6
145	34.7	17.3	52.0



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Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 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	65	0.00
2	T	Dichlorodifluoromethane	0.664	0.684	-3.0	58	0.00
3	P	Chloromethane	0.657	0.610	7.2	57	0.00
4	C	Vinyl Chloride	0.706	0.722	-2.3#	60	0.00
5	T	Bromomethane	0.384	0.390	-1.6	57	0.00
6	T	Chloroethane	0.464	0.440	5.2	61	0.00
7	T	Trichlorofluoromethane	1.053	1.065	-1.1	60	0.00
8	T	Diethyl Ether	0.371	0.402	-8.4	67	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.634	0.626	1.3	61	0.00
10	T	Methyl Iodide	0.647	1.084	-67.5#	97	0.00
11	T	Tert butyl alcohol	0.080	0.077	3.8	69	0.00
12	CM	1,1-Dichloroethene	0.628	0.628	0.0	61	0.00
13	T	Acrolein	0.134	0.209	-56.0#	98	0.00
14	T	Allyl chloride	1.136	1.122	1.2	59	0.00
15	T	Acrylonitrile	0.297	0.333	-12.1	66	0.00
16	T	Acetone	0.250	0.291	-16.4	76	0.00
17	T	Carbon Disulfide	1.818	1.715	5.7	58	0.00
18	T	Methyl Acetate	0.663	0.813	-22.6	77	0.00
19	T	Methyl tert-butyl Ether	1.912	2.118	-10.8	67	0.00
20	T	Methylene Chloride	0.686	0.714	-4.1	65	0.00
21	T	trans-1,2-Dichloroethene	0.643	0.659	-2.5	62	0.00
22	T	Diisopropyl ether	2.184	2.343	-7.3	65	0.00
23	T	Vinyl Acetate	1.752	1.942	-10.8	65	0.00
24	P	1,1-Dichloroethane	1.214	1.233	-1.6	62	0.00
25	T	2-Butanone	0.363	0.375	-3.3	63	0.00
26	T	2,2-Dichloropropane	0.940	0.944	-0.4	63	0.00
27	T	cis-1,2-Dichloroethene	0.761	0.797	-4.7	64	0.00
28	T	Bromochloromethane	0.559	0.601	-7.5	64	0.00
29	T	Tetrahydrofuran	0.234	0.235	-0.4	60	0.00
30	C	Chloroform	1.236	1.275	-3.2#	65	0.00
31	T	Cyclohexane	1.164	1.079	7.3	58	0.00
32	T	1,1,1-Trichloroethane	1.074	1.081	-0.7	63	0.00
33	S	1,2-Dichloroethane-d4	0.623	0.607	2.6	69	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	67	0.00
35	S	Dibromofluoromethane	0.309	0.319	-3.2	72	0.00
36	T	1,1-Dichloropropene	0.526	0.508	3.4	62	0.00
37	T	Ethyl Acetate	0.485	0.562	-15.9	73	0.00
38	T	Carbon Tetrachloride	0.562	0.542	3.6	61	0.00
39	T	Methylcyclohexane	0.657	0.604	8.1	57	0.00
40	TM	Benzene	1.523	1.554	-2.0	63	0.00
41	T	Methacrylonitrile	0.254	0.262	-3.1	60	0.00
42	TM	1,2-Dichloroethane	0.536	0.577	-7.6	67	0.00
43	T	Isopropyl Acetate	0.756	0.838	-10.8	66	0.00
44	TM	Trichloroethene	0.391	0.389	0.5	62	0.00
45	C	1,2-Dichloropropane	0.381	0.396	-3.9#	64	0.00
46	T	Dibromomethane	0.267	0.295	-10.5	67	0.00
47	T	Bromodichloromethane	0.569	0.606	-6.5	65	0.00
48	T	Methyl methacrylate	0.412	0.435	-5.6	66	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 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	0.005	0.005	0.0	62	0.02
50	S	Toluene-d8	1.000	0.880	12.0	63	0.00
51	T	4-Methyl-2-Pentanone	0.449	0.493	-9.8	66	0.00
52	CM	Toluene	0.936	0.966	-3.2#	63	0.00
53	T	t-1,3-Dichloropropene	0.538	0.562	-4.5	63	0.00
54	T	cis-1,3-Dichloropropene	0.588	0.617	-4.9	63	0.00
55	T	1,1,2-Trichloroethane	0.351	0.384	-9.4	68	0.00
56	T	Ethyl methacrylate	0.520	0.589	-13.3	66	0.00
57	T	1,3-Dichloropropane	0.610	0.658	-7.9	67	0.00
58	T	2-Chloroethyl Vinyl ether	0.289	0.296	-2.4	61	0.00
59	T	2-Hexanone	0.297	0.345	-16.2	67	0.00
60	T	Dibromochloromethane	0.412	0.448	-8.7	67	0.00
61	T	1,2-Dibromoethane	0.367	0.399	-8.7	67	0.00
62	S	4-Bromofluorobenzene	0.431	0.428	0.7	70	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	67	0.00
64	T	Tetrachloroethene	0.360	0.349	3.1	62	0.00
65	PM	Chlorobenzene	1.171	1.184	-1.1	65	0.00
66	T	1,1,1,2-Tetrachloroethane	0.394	0.417	-5.8	67	0.00
67	C	Ethyl Benzene	2.048	2.053	-0.2#	63	0.00
68	T	m/p-Xylenes	0.766	0.773	-0.9	63	0.00
69	T	o-Xylene	0.729	0.745	-2.2	64	0.00
70	T	Styrene	1.250	1.297	-3.8	64	0.00
71	P	Bromoform	0.300	0.324	-8.0	67	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	70	0.00
73	T	Isopropylbenzene	3.945	3.857	2.2	62	0.00
74	T	N-amyl acetate	1.592	1.625	-2.1	64	0.00
75	P	1,1,2,2-Tetrachloroethane	1.127	1.184	-5.1	68	0.00
76	T	1,2,3-Trichloropropane	0.925	0.954	-3.1	67	0.00
77	T	Bromobenzene	0.946	0.959	-1.4	66	0.00
78	T	n-propylbenzene	4.714	4.599	2.4	63	0.00
79	T	2-Chlorotoluene	2.818	2.750	2.4	63	0.00
80	T	1,3,5-Trimethylbenzene	3.259	3.221	1.2	64	0.00
81	T	trans-1,4-Dichloro-2-butene	0.359	0.193	46.2#	34#	0.00
82	T	4-Chlorotoluene	3.289	3.264	0.8	64	0.00
83	T	tert-Butylbenzene	3.271	3.199	2.2	62	0.00
84	T	1,2,4-Trimethylbenzene	3.251	3.228	0.7	63	0.00
85	T	sec-Butylbenzene	4.087	3.893	4.7	62	0.00
86	T	p-Isopropyltoluene	3.389	3.290	2.9	62	0.00
87	T	1,3-Dichlorobenzene	1.798	1.804	-0.3	66	0.00
88	T	1,4-Dichlorobenzene	1.821	1.773	2.6	65	0.00
89	T	n-Butylbenzene	3.178	2.998	5.7	60	0.00
90	T	Hexachloroethane	0.606	0.594	2.0	63	0.00
91	T	1,2-Dichlorobenzene	1.718	1.708	0.6	65	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.216	0.232	-7.4	68	0.00
93	T	1,2,4-Trichlorobenzene	1.135	1.133	0.2	65	0.00
94	T	Hexachlorobutadiene	0.386	0.361	6.5	62	0.00
95	T	Naphthalene	3.328	3.447	-3.6	64	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 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	1.094	1.081	1.2	64	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 5

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 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	65	0.00
2	T	Dichlorodifluoromethane	50.000	51.465	-2.9	58	0.00
3	P	Chloromethane	50.000	46.408	7.2	57	0.00
4	C	Vinyl Chloride	50.000	51.117	-2.2#	60	0.00
5	T	Bromomethane	50.000	50.837	-1.7	57	0.00
6	T	Chloroethane	50.000	47.427	5.1	61	0.00
7	T	Trichlorofluoromethane	50.000	50.571	-1.1	60	0.00
8	T	Diethyl Ether	50.000	54.146	-8.3	67	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.350	1.3	61	0.00
10	T	Methyl Iodide	50.000	83.845	-67.7#	97	0.00
11	T	Tert butyl alcohol	250.000	266.119	-6.4	69	0.00
12	CM	1,1-Dichloroethene	50.000	49.935	0.1#	61	0.00
13	T	Acrolein	250.000	389.062	-55.6#	98	0.00
14	T	Allyl chloride	50.000	49.389	1.2	59	0.00
15	T	Acrylonitrile	250.000	280.076	-12.0	66	0.00
16	T	Acetone	250.000	291.855	-16.7	76	0.00
17	T	Carbon Disulfide	50.000	47.171	5.7	58	0.00
18	T	Methyl Acetate	50.000	61.331	-22.7	77	0.00
19	T	Methyl tert-butyl Ether	50.000	55.387	-10.8	67	0.00
20	T	Methylene Chloride	50.000	52.043	-4.1	65	0.00
21	T	trans-1,2-Dichloroethene	50.000	51.205	-2.4	62	0.00
22	T	Diisopropyl ether	50.000	53.638	-7.3	65	0.00
23	T	Vinyl Acetate	250.000	277.255	-10.9	65	0.00
24	P	1,1-Dichloroethane	50.000	50.758	-1.5	62	0.00
25	T	2-Butanone	250.000	258.198	-3.3	63	0.00
26	T	2,2-Dichloropropane	50.000	50.208	-0.4	63	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.320	-4.6	64	0.00
28	T	Bromochloromethane	50.000	53.820	-7.6	64	0.00
29	T	Tetrahydrofuran	250.000	250.372	-0.1	60	0.00
30	C	Chloroform	50.000	51.555	-3.1#	65	0.00
31	T	Cyclohexane	50.000	46.334	7.3	58	0.00
32	T	1,1,1-Trichloroethane	50.000	50.322	-0.6	63	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.737	2.5	69	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	67	0.00
35	S	Dibromofluoromethane	50.000	51.627	-3.3	72	0.00
36	T	1,1-Dichloropropene	50.000	48.290	3.4	62	0.00
37	T	Ethyl Acetate	50.000	57.925	-15.8	73	0.00
38	T	Carbon Tetrachloride	50.000	48.263	3.5	61	0.00
39	T	Methylcyclohexane	50.000	45.966	8.1	57	0.00
40	TM	Benzene	50.000	51.034	-2.1	63	0.00
41	T	Methacrylonitrile	50.000	51.663	-3.3	60	0.00
42	TM	1,2-Dichloroethane	50.000	53.804	-7.6	67	0.00
43	T	Isopropyl Acetate	50.000	55.423	-10.8	66	0.00
44	TM	Trichloroethene	50.000	49.765	0.5	62	0.00
45	C	1,2-Dichloropropane	50.000	51.888	-3.8#	64	0.00
46	T	Dibromomethane	50.000	55.078	-10.2	67	0.00
47	T	Bromodichloromethane	50.000	53.254	-6.5	65	0.00
48	T	Methyl methacrylate	50.000	52.829	-5.7	66	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 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	1042.543	-4.3	62	0.02
50	S	Toluene-d8	50.000	43.990	12.0	63	0.00
51	T	4-Methyl-2-Pentanone	250.000	274.116	-9.6	66	0.00
52	CM	Toluene	50.000	51.598	-3.2#	63	0.00
53	T	t-1,3-Dichloropropene	50.000	52.270	-4.5	63	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.423	-4.8	63	0.00
55	T	1,1,2-Trichloroethane	50.000	54.707	-9.4	68	0.00
56	T	Ethyl methacrylate	50.000	56.604	-13.2	66	0.00
57	T	1,3-Dichloropropane	50.000	53.892	-7.8	67	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	255.533	-2.2	61	0.00
59	T	2-Hexanone	250.000	290.316	-16.1	67	0.00
60	T	Dibromochloromethane	50.000	54.334	-8.7	67	0.00
61	T	1,2-Dibromoethane	50.000	54.281	-8.6	67	0.00
62	S	4-Bromofluorobenzene	50.000	49.666	0.7	70	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	67	0.00
64	T	Tetrachloroethene	50.000	48.451	3.1	62	0.00
65	PM	Chlorobenzene	50.000	50.536	-1.1	65	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.854	-5.7	67	0.00
67	C	Ethyl Benzene	50.000	50.127	-0.3#	63	0.00
68	T	m/p-Xylenes	100.000	100.800	-0.8	63	0.00
69	T	o-Xylene	50.000	51.121	-2.2	64	0.00
70	T	Styrene	50.000	51.852	-3.7	64	0.00
71	P	Bromoform	50.000	54.108	-8.2	67	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	70	0.00
73	T	Isopropylbenzene	50.000	48.889	2.2	62	0.00
74	T	N-amyl acetate	50.000	51.043	-2.1	64	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.547	-5.1	68	0.00
76	T	1,2,3-Trichloropropane	50.000	51.525	-3.0	67	0.00
77	T	Bromobenzene	50.000	50.657	-1.3	66	0.00
78	T	n-propylbenzene	50.000	48.787	2.4	63	0.00
79	T	2-Chlorotoluene	50.000	48.791	2.4	63	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.416	1.2	64	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	26.822	46.4#	34	0.00
82	T	4-Chlorotoluene	50.000	49.625	0.8	64	0.00
83	T	tert-Butylbenzene	50.000	48.901	2.2	62	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.654	0.7	63	0.00
85	T	sec-Butylbenzene	50.000	47.627	4.7	62	0.00
86	T	p-Isopropyltoluene	50.000	48.530	2.9	62	0.00
87	T	1,3-Dichlorobenzene	50.000	50.187	-0.4	66	0.00
88	T	1,4-Dichlorobenzene	50.000	48.680	2.6	65	0.00
89	T	n-Butylbenzene	50.000	47.162	5.7	60	0.00
90	T	Hexachloroethane	50.000	48.954	2.1	63	0.00
91	T	1,2-Dichlorobenzene	50.000	49.711	0.6	65	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	53.598	-7.2	68	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.902	0.2	65	0.00
94	T	Hexachlorobutadiene	50.000	46.711	6.6	62	0.00
95	T	Naphthalene	50.000	51.782	-3.6	64	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 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	49.440	1.1	64	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: FIRS02

Lab Code: ACE | SDG No.: Q2815

Instrument ID: MSVOA_X | Calibration Date/Time: 08/13/2025 19:50

Lab File ID: VX047334.D | Init. Calib. Date(s): 07/21/2025 07/21/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:47 11:32

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.664	0.657		-1.05	50
Chloromethane	0.657	0.606	0.1	-7.76	50
Vinyl Chloride	0.706	0.731		3.54	50
Bromomethane	0.384	0.291		-24.22	50
Chloroethane	0.464	0.448		-3.45	50
Trichlorofluoromethane	1.053	1.047		-0.57	50
1,1,2-Trichlorotrifluoroethane	0.634	0.604		-4.73	50
1,1-Dichloroethene	0.628	0.637		1.43	50
Acetone	0.250	0.288		15.2	50
Carbon Disulfide	1.818	1.741		-4.24	50
Methyl tert-butyl Ether	1.912	2.191		14.59	50
Methyl Acetate	0.663	0.916		38.16	50
Methylene Chloride	0.686	0.758		10.5	50
trans-1,2-Dichloroethene	0.643	0.682		6.07	50
1,1-Dichloroethane	1.214	1.312	0.1	8.07	50
Cyclohexane	1.164	1.071		-7.99	50
2-Butanone	0.363	0.417		14.88	50
Carbon Tetrachloride	0.562	0.544		-3.2	50
cis-1,2-Dichloroethene	0.761	0.834		9.59	50
Bromochloromethane	0.559	0.638		14.13	50
Chloroform	1.236	1.343		8.66	50
1,1,1-Trichloroethane	1.074	1.114		3.72	50
Methylcyclohexane	0.657	0.565		-14	50
Benzene	1.523	1.592		4.53	50
1,2-Dichloroethane	0.536	0.584		8.95	50
Trichloroethene	0.391	0.397		1.53	50
1,2-Dichloropropane	0.381	0.409		7.35	50
Bromodichloromethane	0.569	0.612		7.56	50
4-Methyl-2-Pentanone	0.449	0.537		19.6	50
Toluene	0.936	0.991		5.88	50
t-1,3-Dichloropropene	0.538	0.525		-2.42	50
cis-1,3-Dichloropropene	0.588	0.577		-1.87	50
1,1,2-Trichloroethane	0.351	0.396		12.82	50
2-Hexanone	0.297	0.377		26.94	50
Dibromochloromethane	0.412	0.461		11.89	50
1,2-Dibromoethane	0.367	0.404		10.08	50
Tetrachloroethene	0.360	0.440		22.22	50
Chlorobenzene	1.171	1.212	0.3	3.5	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:	FIRS02
Lab Code:	ACE	SDG No.:	Q2815
Instrument ID:	MSVOA_X	Calibration Date/Time:	08/13/2025 19:50
Lab File ID:	VX047334.D	Init. Calib. Date(s):	07/21/2025 07/21/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:47 11:32

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.048	2.076		1.37	50
m/p-Xylenes	0.766	0.776		1.3	50
o-Xylene	0.729	0.762		4.53	50
Styrene	1.250	1.332		6.56	50
Bromoform	0.300	0.335	0.1	11.67	50
Isopropylbenzene	3.945	3.924		-0.53	50
1,1,2,2-Tetrachloroethane	1.127	1.259	0.3	11.71	50
1,3-Dichlorobenzene	1.798	1.844		2.56	50
1,4-Dichlorobenzene	1.821	1.856		1.92	50
1,2-Dichlorobenzene	1.718	1.778		3.49	50
1,2-Dibromo-3-Chloropropane	0.216	0.256		18.52	50
1,2,4-Trichlorobenzene	1.135	1.144		0.79	50
1,2,3-Trichlorobenzene	1.094	1.128		3.11	50
1,2-Dichloroethane-d4	0.623	0.700		12.36	50
Dibromofluoromethane	0.309	0.348		12.62	50
Toluene-d8	1.000	0.968		-3.2	50
4-Bromofluorobenzene	0.431	0.469		8.82	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\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	205236	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	362249	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	328856	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	162794	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	143603	56.170	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 112.340%			
35) Dibromofluoromethane	5.403	113	126007	56.338	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 112.680%			
50) Toluene-d8	8.653	98	350581	48.401	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.800%			
62) 4-Bromofluorobenzene	11.079	95	169988	54.458	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.920%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	134761	49.434	ug/l	97
3) Chloromethane	1.312	50	124400	46.133	ug/l	98
4) Vinyl Chloride	1.392	62	150084	51.777	ug/l	100
5) Bromomethane	1.623	94	59720	37.927	ug/l	94
6) Chloroethane	1.703	64	91875	48.258	ug/l	95
7) Trichlorofluoromethane	1.904	101	214893	49.717	ug/l	97
8) Diethyl Ether	2.148	74	84668	55.556	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.349	101	123887	47.574	ug/l	99
10) Methyl Iodide	2.471	142	204203	76.942	ug/l	100
11) Tert butyl alcohol	2.971	59	87953	296.193	ug/l	100
12) 1,1-Dichloroethene	2.337	96	130702	50.675	ug/l	99
13) Acrolein	2.251	56	131419	238.735	ug/l	100
14) Allyl chloride	2.684	41	227169	48.725	ug/l	99
15) Acrylonitrile	3.080	53	370745	304.062	ug/l	100
16) Acetone	2.392	43	295467	288.492	ug/l	99
17) Carbon Disulfide	2.532	76	357217	47.874	ug/l	100
18) Methyl Acetate	2.721	43	187953	69.057	ug/l	98
19) Methyl tert-butyl Ether	3.129	73	449689	57.288	ug/l	99
20) Methylene Chloride	2.806	84	155553	55.207	ug/l	98
21) trans-1,2-Dichloroethene	3.111	96	139920	53.013	ug/l	98
22) Diisopropyl ether	3.775	45	498100	55.568	ug/l	96
23) Vinyl Acetate	3.739	43	1952315	271.550	ug/l	100
24) 1,1-Dichloroethane	3.629	63	269276	54.022	ug/l	99
25) 2-Butanone	4.574	43	427466	286.642	ug/l	98
26) 2,2-Dichloropropane	4.495	77	119393	30.943	ug/l	97
27) cis-1,2-Dichloroethene	4.507	96	171179	54.770	ug/l	93
28) Bromochloromethane	4.915	49	130854	57.062	ug/l	98
29) Tetrahydrofuran	5.025	42	282886	293.999	ug/l	98
30) Chloroform	5.111	83	275564	54.310	ug/l	98
31) Cyclohexane	5.489	56	219791	45.987	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	228701	51.894	ug/l	99
36) 1,1-Dichloropropene	5.708	75	182035	47.746	ug/l	99
37) Ethyl Acetate	4.733	43	216655	61.671	ug/l	97
38) Carbon Tetrachloride	5.690	117	197096	48.436	ug/l	99
39) Methylcyclohexane	7.391	83	204641	42.990	ug/l	94
40) Benzene	6.049	78	576594	52.258	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	98648	53.704	ug/l		93
42) 1,2-Dichloroethane	6.098	62	211626	54.449	ug/l		99
43) Isopropyl Acetate	6.348	43	321876	58.771	ug/l		100
44) Trichloroethene	7.135	130	143842	50.839	ug/l		99
45) 1,2-Dichloropropane	7.439	63	148168	53.617	ug/l		97
46) Dibromomethane	7.586	93	109285	56.394	ug/l		99
47) Bromodichloromethane	7.824	83	221607	53.726	ug/l		96
48) Methyl methacrylate	7.695	41	166691	55.869	ug/l		99
49) 1,4-Dioxane	7.677	88	37215	1096.675	ug/l		99
51) 4-Methyl-2-Pentanone	8.573	43	971754	298.510	ug/l		99
52) Toluene	8.720	92	358851	52.894	ug/l		99
53) t-1,3-Dichloropropene	8.982	75	190007	48.781	ug/l		98
54) cis-1,3-Dichloropropene	8.372	75	208919	49.007	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	143591	56.437	ug/l		98
56) Ethyl methacrylate	9.116	69	226969	60.258	ug/l		98
57) 1,3-Dichloropropane	9.311	76	241487	54.612	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	520399	248.283	ug/l		100
59) 2-Hexanone	9.433	43	682075	317.134	ug/l		100
60) Dibromochloromethane	9.524	129	166965	55.953	ug/l		99
61) 1,2-Dibromoethane	9.610	107	146279	54.984	ug/l		97
64) Tetrachloroethene	9.274	164	144828	61.091	ug/l		97
65) Chlorobenzene	10.079	112	398565	51.735	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.165	131	138574	53.426	ug/l		99
67) Ethyl Benzene	10.195	91	682645	50.679	ug/l		99
68) m/p-Xylenes	10.299	106	510341	101.242	ug/l		99
69) o-Xylene	10.640	106	250637	52.266	ug/l		99
70) Styrene	10.652	104	437969	53.262	ug/l		99
71) Bromoform	10.799	173	110290	55.976	ug/l	#	99
73) Isopropylbenzene	10.963	105	638868	49.743	ug/l		100
74) N-amyl acetate	10.841	43	276966	53.447	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	204903	55.852	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	160522m	53.272	ug/l		
77) Bromobenzene	11.195	156	162977	52.905	ug/l		98
78) n-propylbenzene	11.305	91	759407	49.480	ug/l		100
79) 2-Chlorotoluene	11.366	91	464143	50.591	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	535382	50.457	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	23329	19.947	ug/l		98
82) 4-Chlorotoluene	11.451	91	547556	51.133	ug/l		99
83) tert-Butylbenzene	11.713	119	497590	46.723	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	541887	51.202	ug/l		100
85) sec-Butylbenzene	11.890	105	642655	48.296	ug/l		99
86) p-Isopropyltoluene	12.006	119	539743	48.913	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	300174	51.283	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	302162	50.953	ug/l		98
89) n-Butylbenzene	12.329	91	491481	47.494	ug/l		98
90) Hexachloroethane	12.536	117	94390	47.815	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	289391	51.730	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	41702	59.218	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	186188	50.374	ug/l		99
94) Hexachlorobutadiene	13.725	225	58740	46.730	ug/l		98
95) Naphthalene	13.774	128	624659	57.649	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	183699	51.589	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

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\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
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Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

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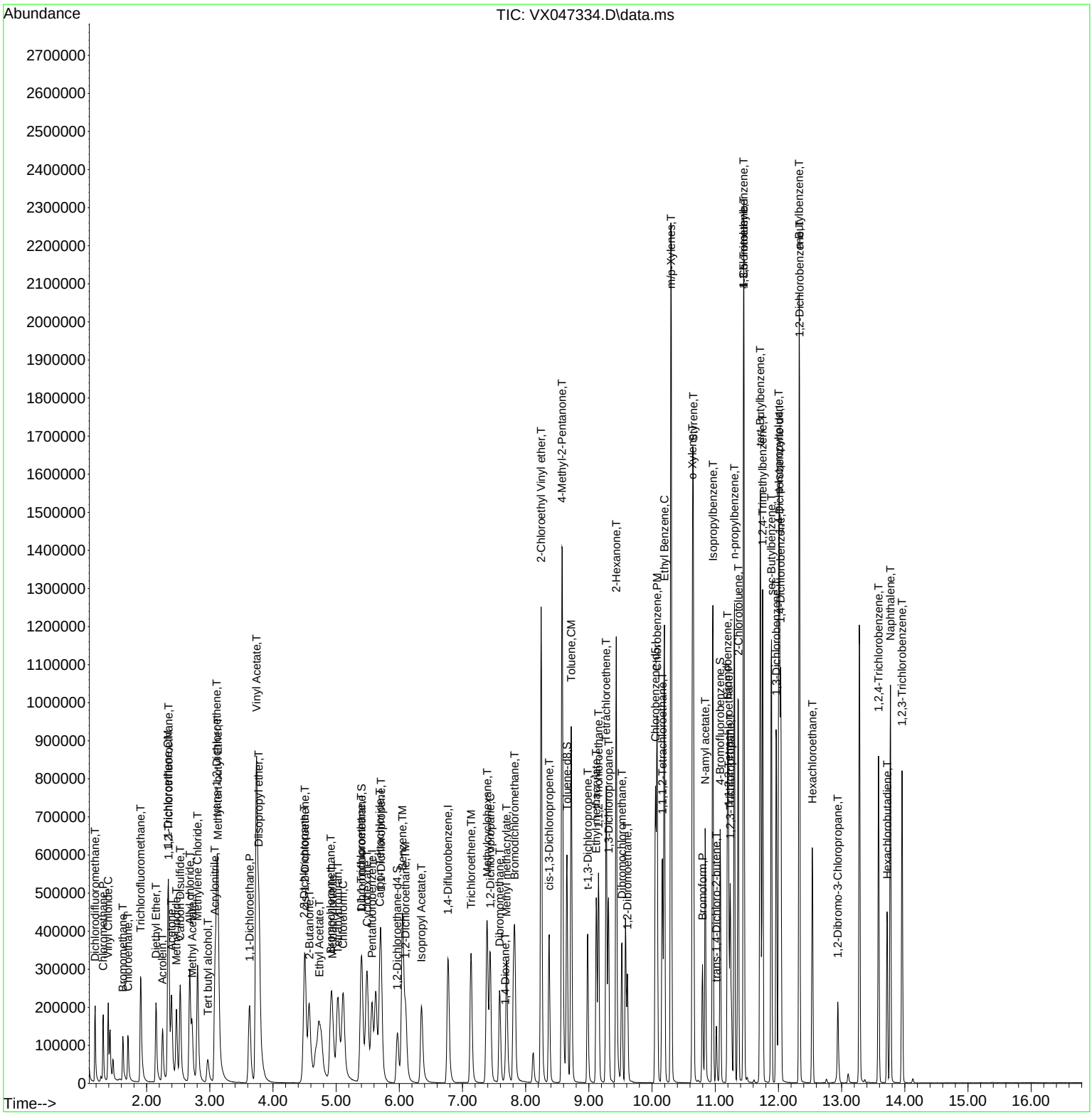
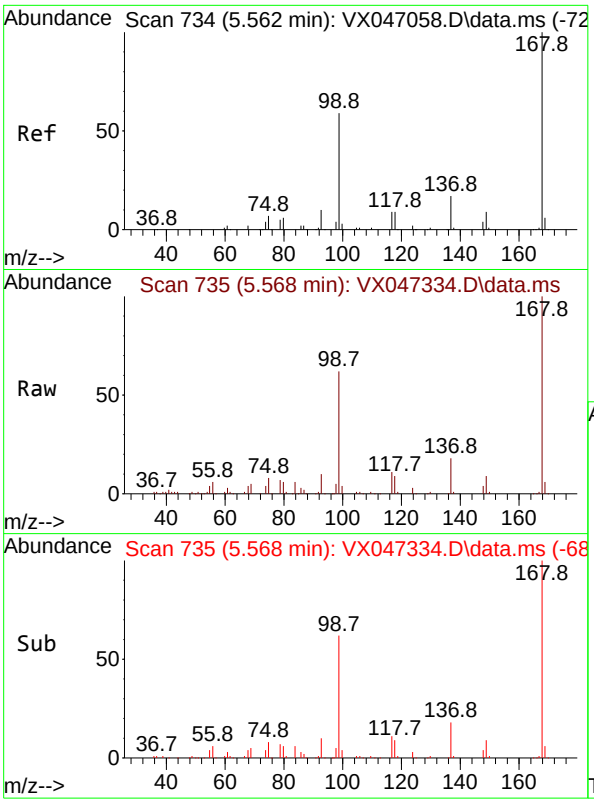
Supervised By :Mahesh Dadoda 08/18/2025

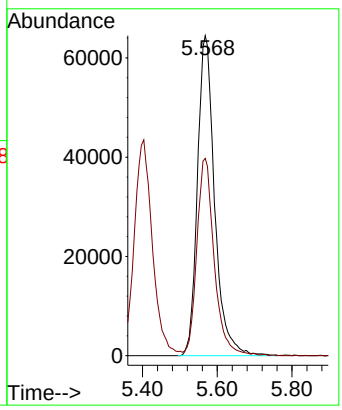




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:168 Resp: 20523

Ion	Ratio	Lower	Upper
168	100		
99	61.5	48.0	72.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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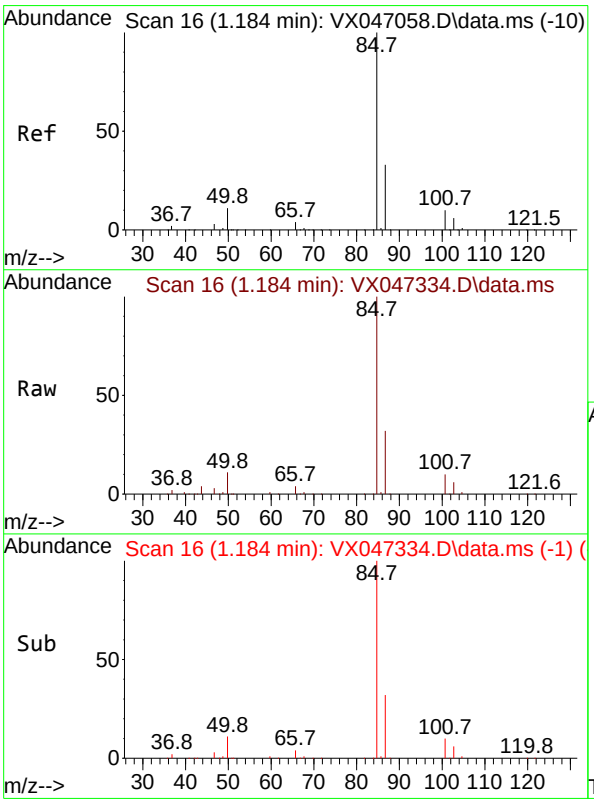
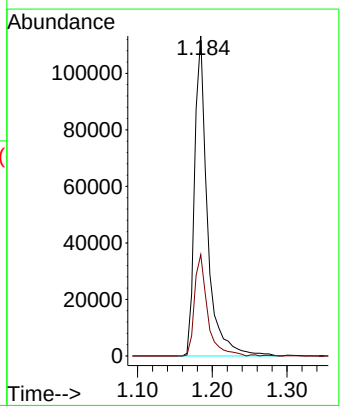
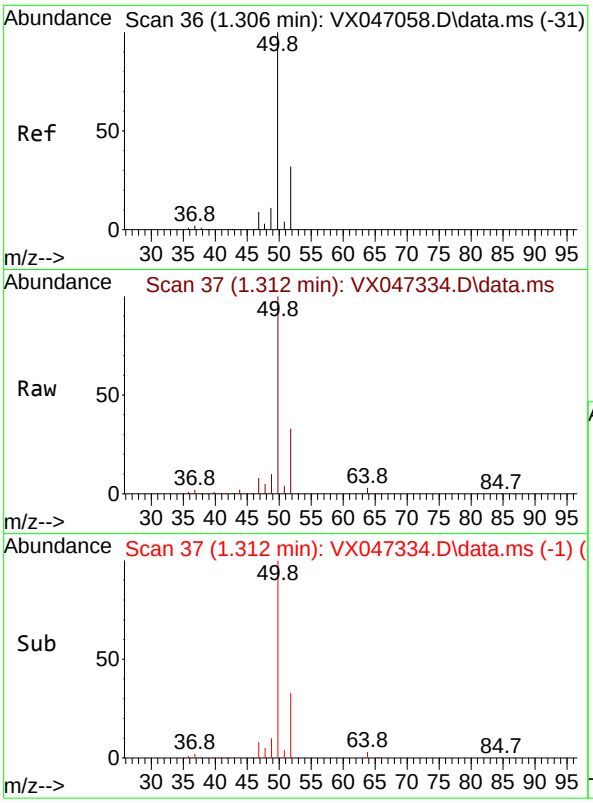


#2
Dichlorodifluoromethane
Concen: 49.434 ug/l
RT: 1.184 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 85 Resp: 134761

Ion	Ratio	Lower	Upper
85	100		
87	31.6	16.6	49.8

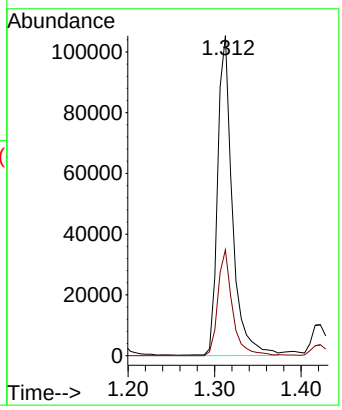




#3
Chloromethane
Concen: 46.133 ug/l
RT: 1.312 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 50 Resp: 12440

Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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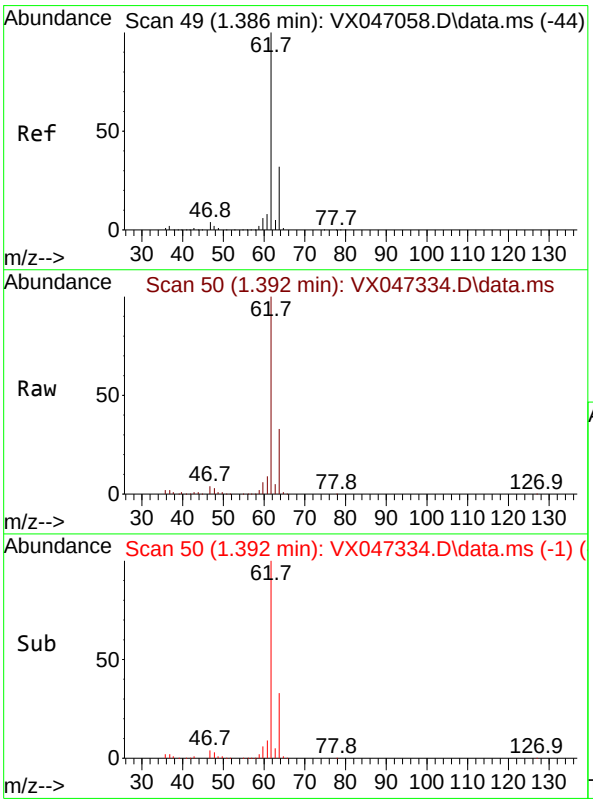
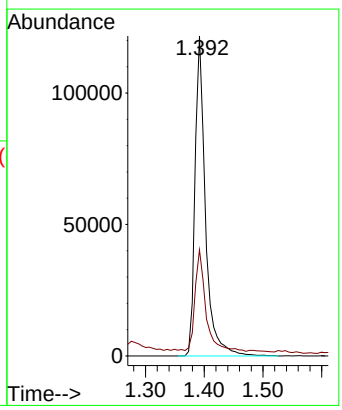
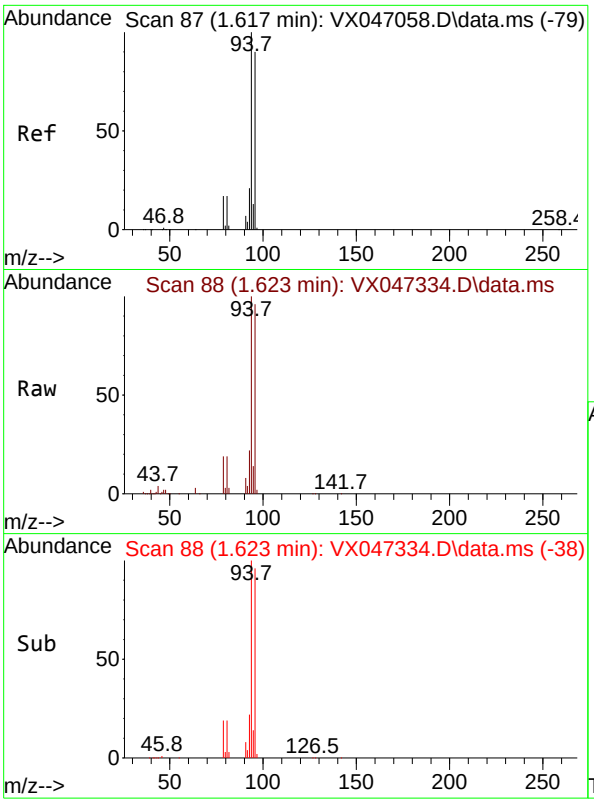


#4
Vinyl Chloride
Concen: 51.777 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 62 Resp: 150084

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.2	37.8

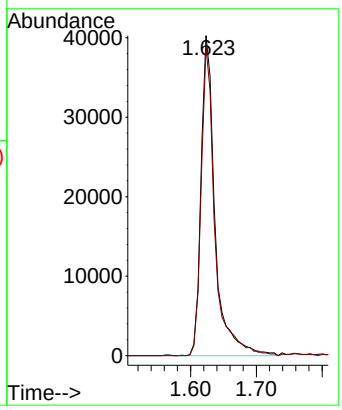




#5
Bromomethane
Concen: 37.927 ug/l
RT: 1.623 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 94 Resp: 5972

Ion	Ratio	Lower	Upper
94	100		
96	96.5	72.3	108.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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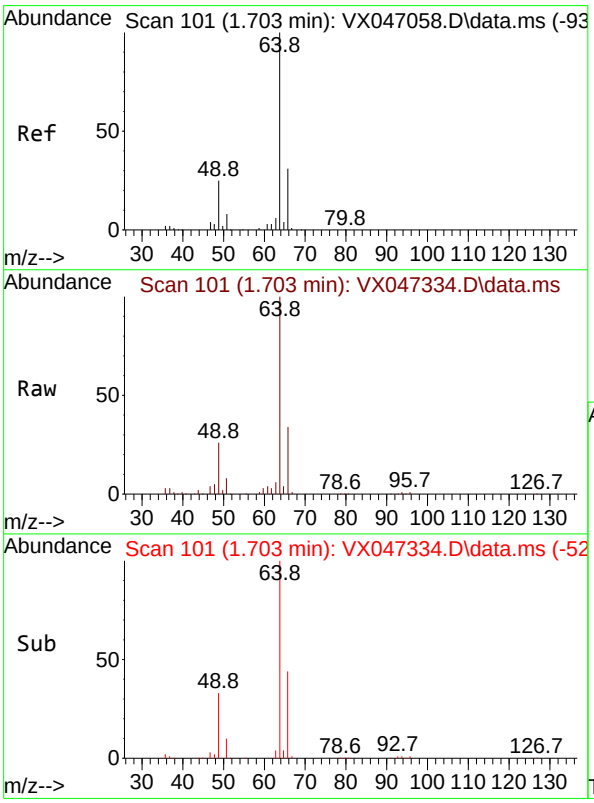
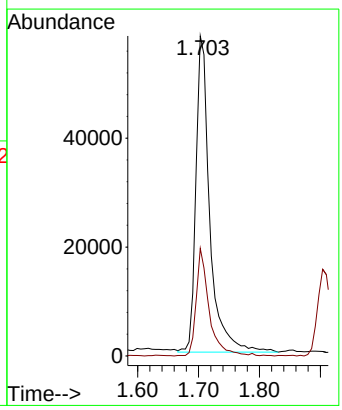
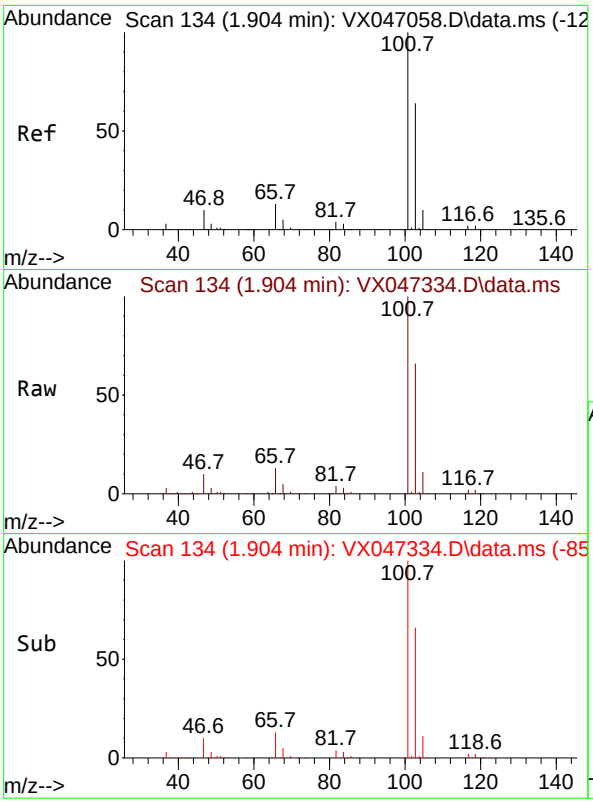


#6
Chloroethane
Concen: 48.258 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 64 Resp: 91875

Ion	Ratio	Lower	Upper
64	100		
66	33.9	25.0	37.6





#7
Trichlorofluoromethane
Concen: 49.717 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:101 Resp: 21489

Ion	Ratio	Lower	Upper
101	100		
103	65.8	50.9	76.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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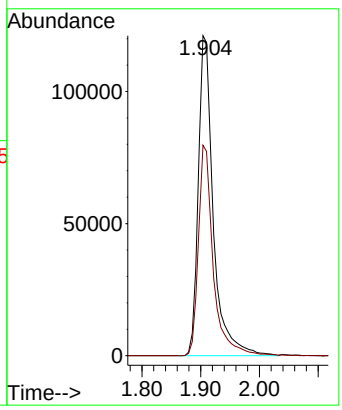
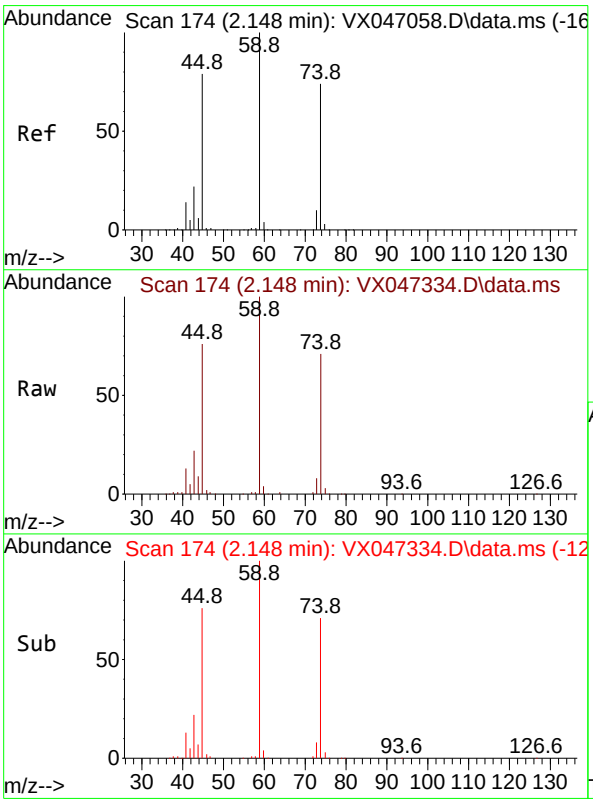
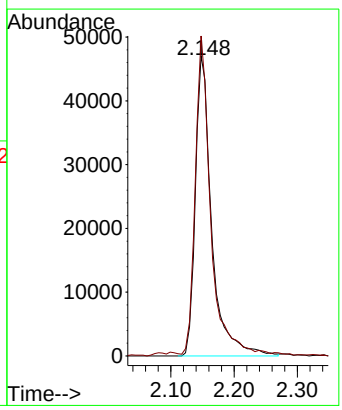


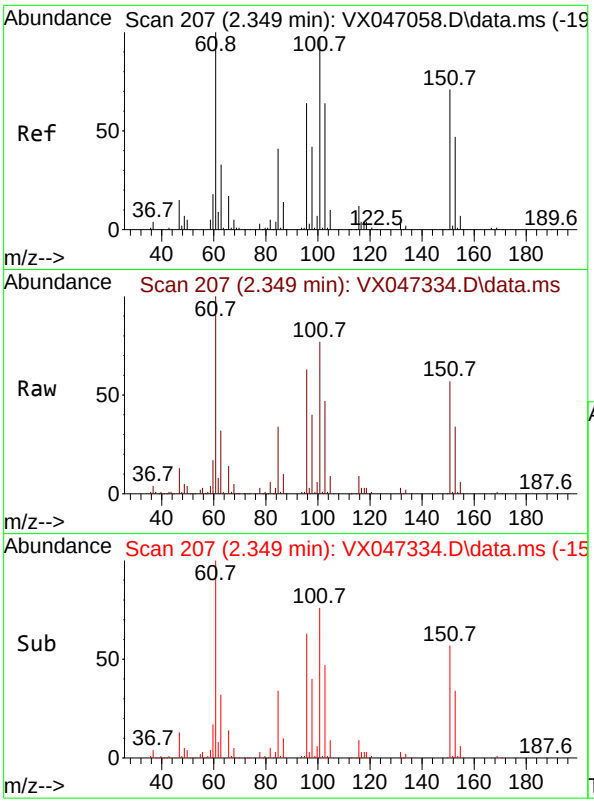


#8
Diethyl Ether
Concen: 55.556 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 74 Resp: 84668

Ion	Ratio	Lower	Upper
74	100		
45	100.3	53.0	159.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.574 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:101 Resp: 12388

Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.4	53.0
151	74.6	59.2	88.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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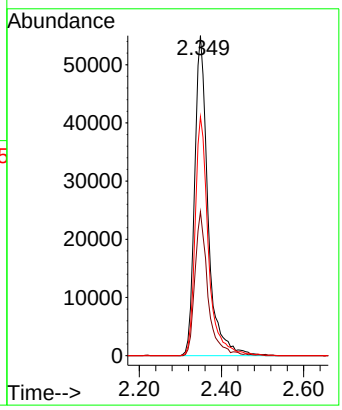
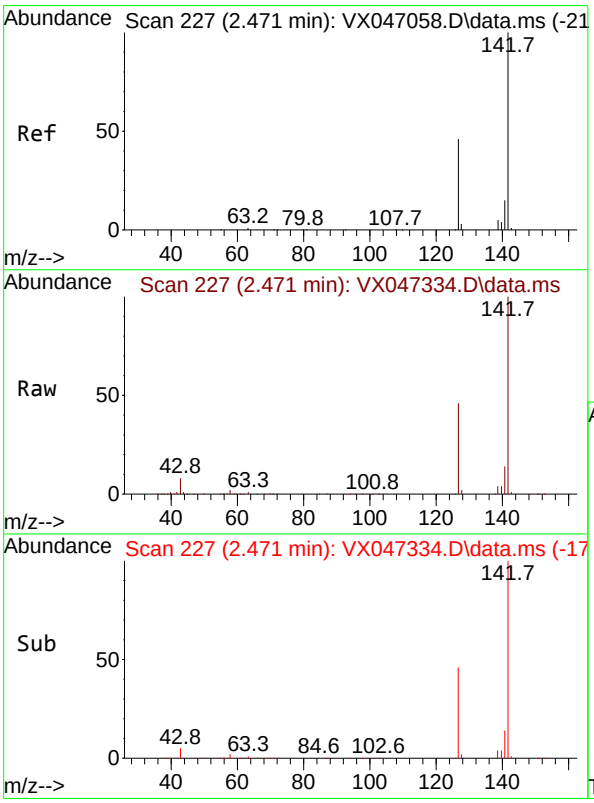
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

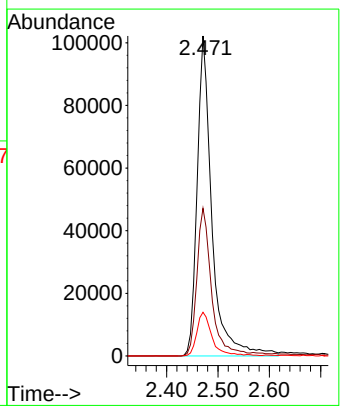


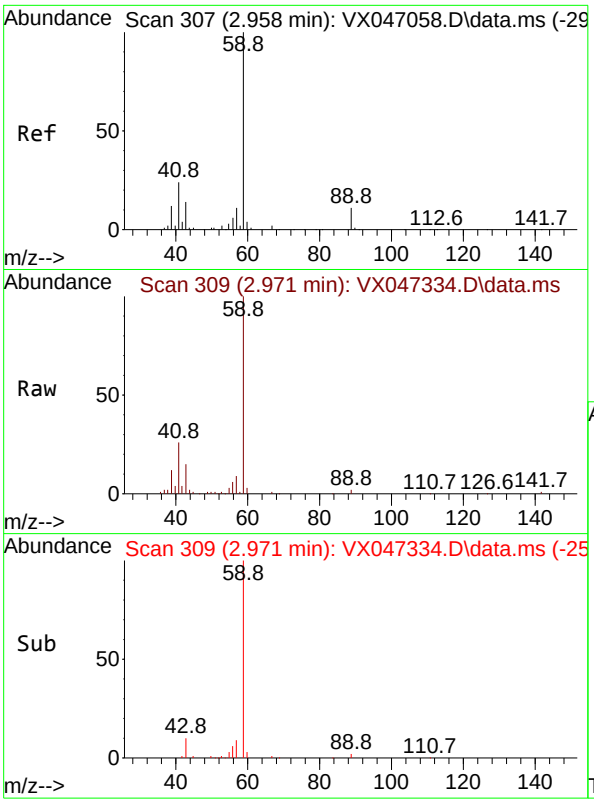


#10
Methyl Iodide
Concen: 76.942 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:142 Resp: 204203

Ion	Ratio	Lower	Upper
142	100		
127	45.6	36.6	54.8
141	14.1	10.9	16.3

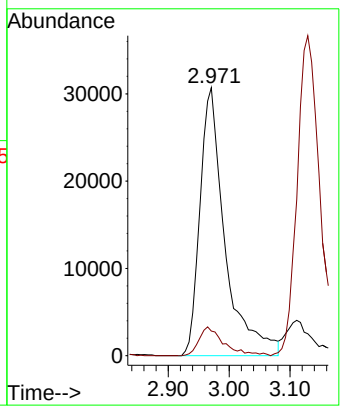




#11
Tert butyl alcohol
Concen: 296.193 ug/l
RT: 2.971 min Scan# 3
Delta R.T. 0.013 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 59 Resp: 8795

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.5	12.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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Reviewed By :John Carlone 08/14/2025
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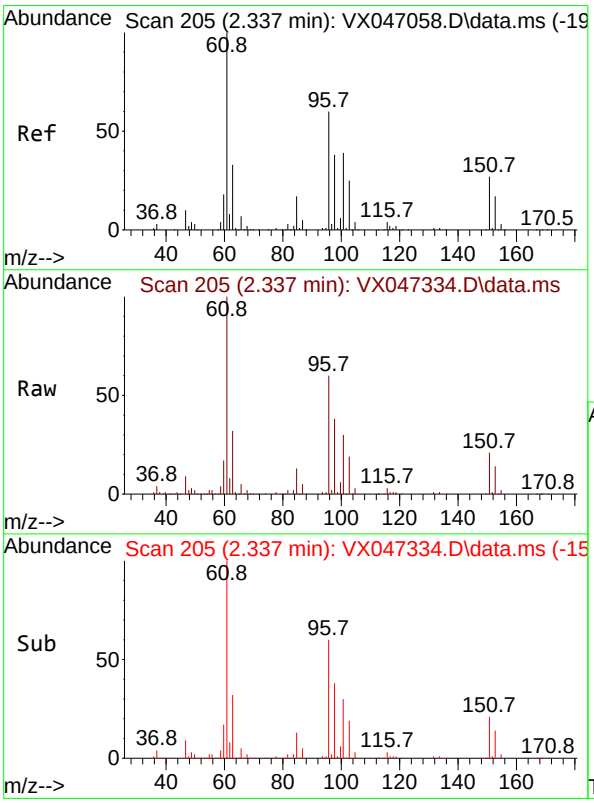
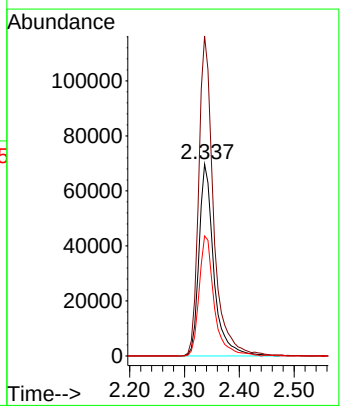
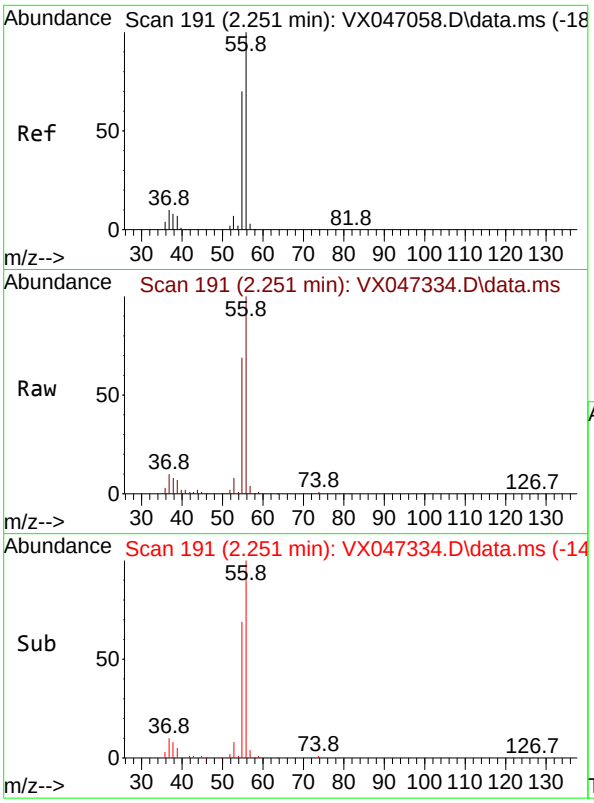


#12
1,1-Dichloroethene
Concen: 50.675 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 96 Resp: 130702

Ion	Ratio	Lower	Upper
96	100		
61	166.8	132.6	198.8
98	62.6	50.2	75.4

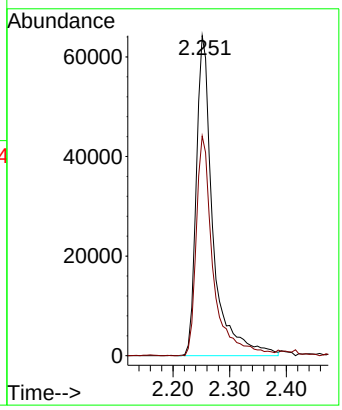




#13
Acrolein
Concen: 238.735 ug/l
RT: 2.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 56 Resp: 13141

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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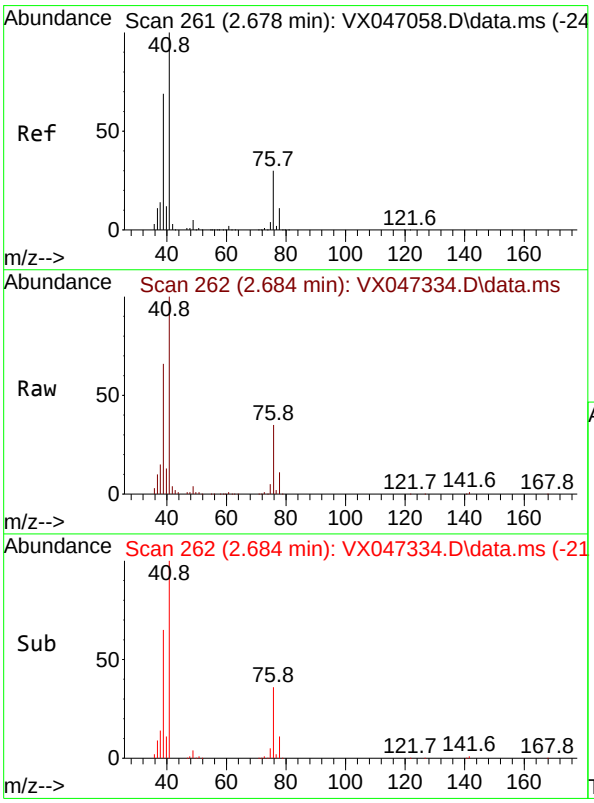
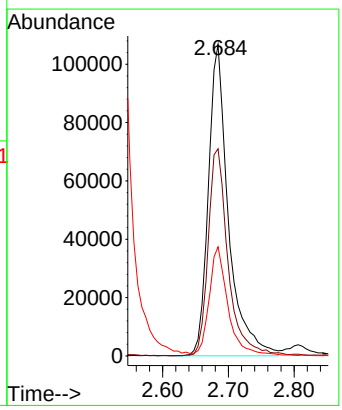
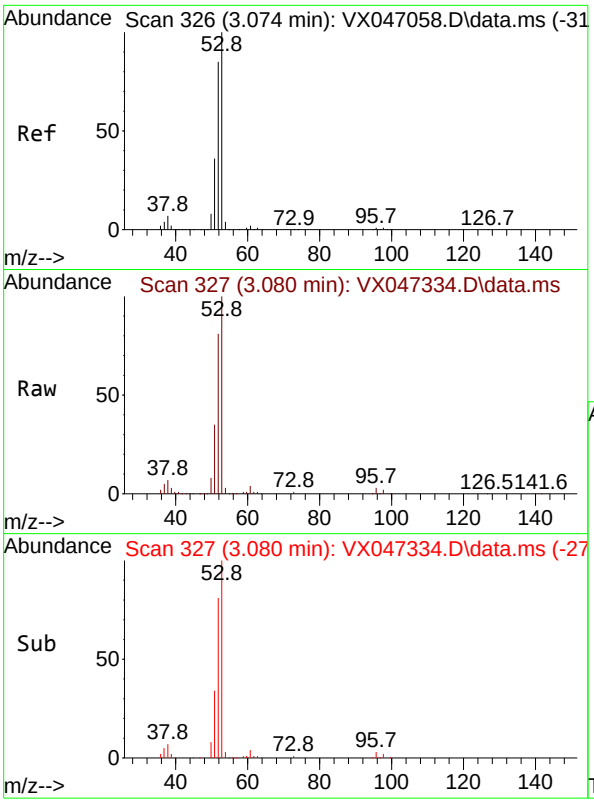


#14
Allyl chloride
Concen: 48.725 ug/l
RT: 2.684 min Scan# 262
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 41 Resp: 227169

Ion	Ratio	Lower	Upper
41	100		
39	65.9	52.6	78.8
76	32.7	25.7	38.5

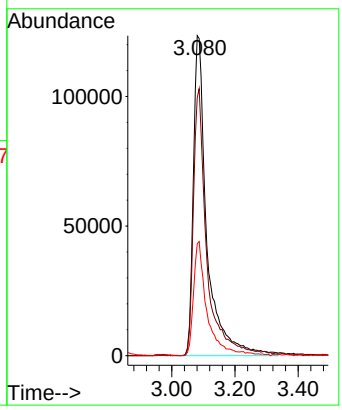




#15
Acrylonitrile
Concen: 304.062 ug/l
RT: 3.080 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 53 Resp: 37074

Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.7	98.5
51	35.7	28.8	43.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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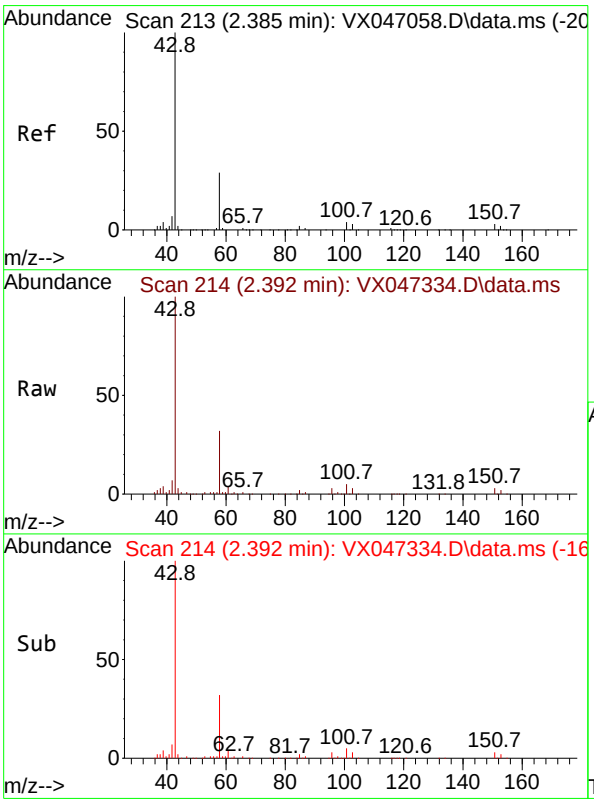
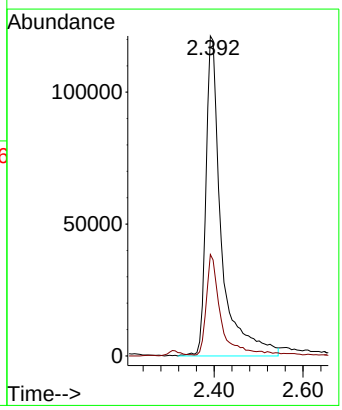
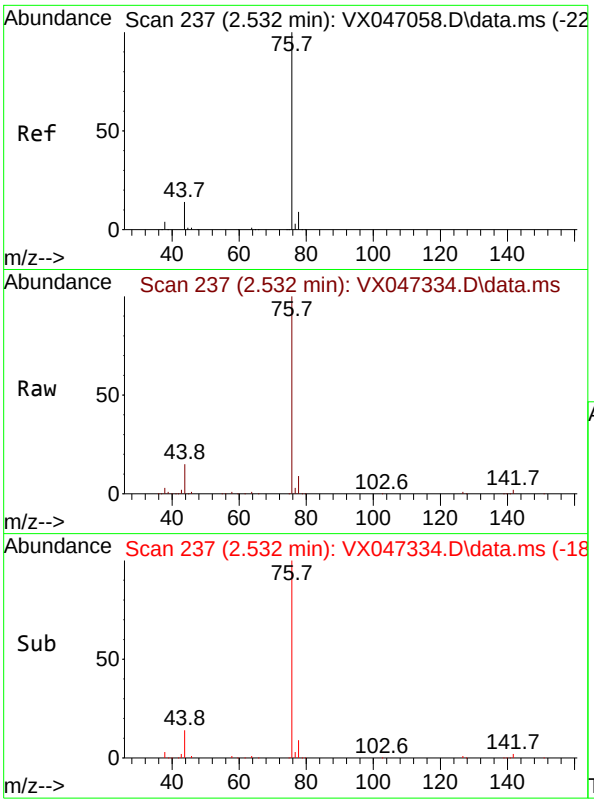


#16
Acetone
Concen: 288.492 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 43 Resp: 295467

Ion	Ratio	Lower	Upper
43	100		
58	30.8	24.0	36.0





#17
Carbon Disulfide
Concen: 47.874 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 76 Resp: 35721

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.0	10.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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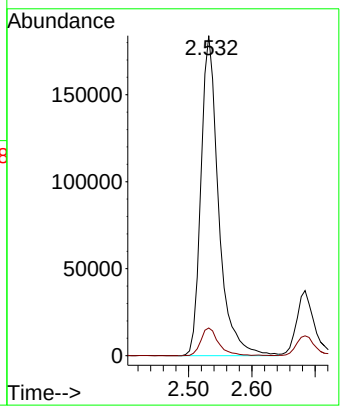
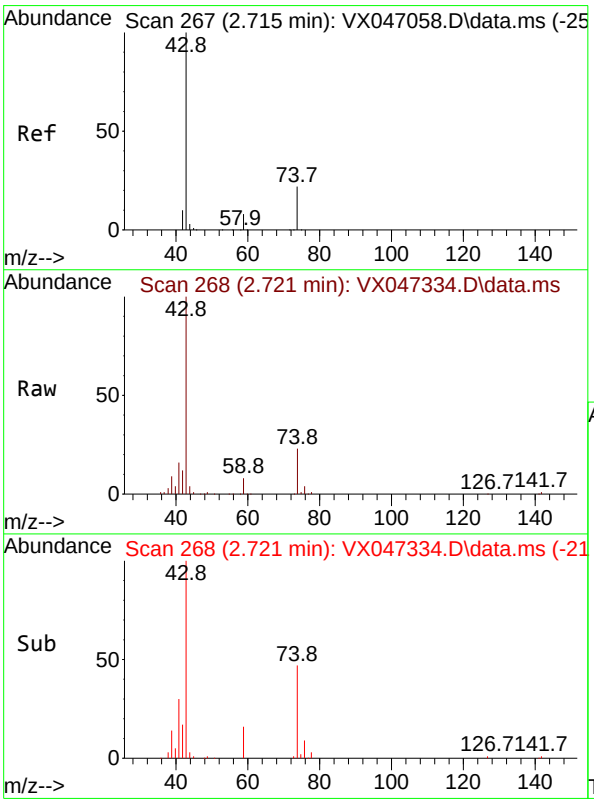
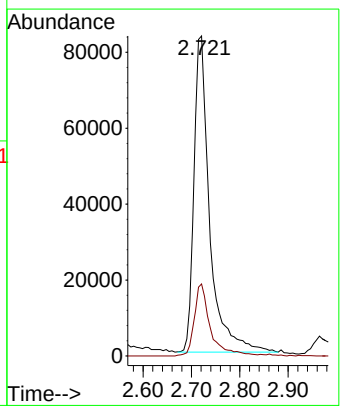


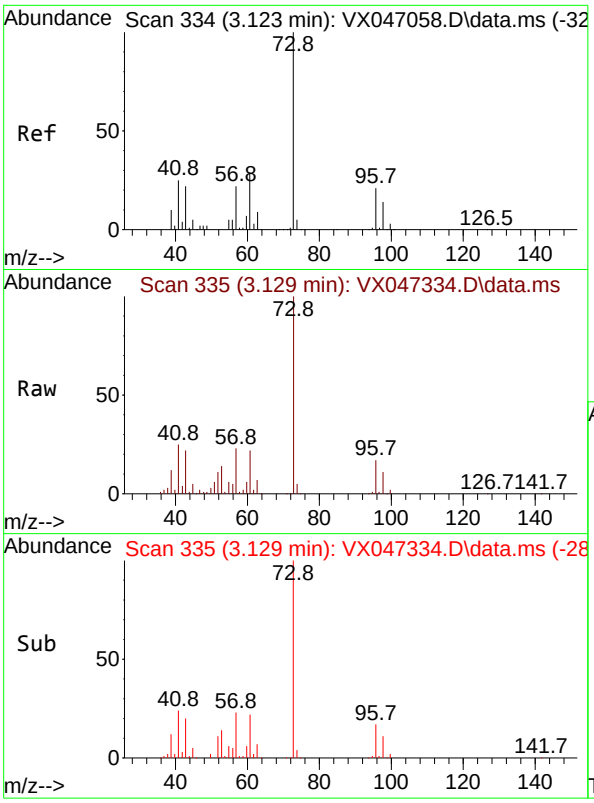


#18
Methyl Acetate
Concen: 69.057 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 43 Resp: 187953

Ion	Ratio	Lower	Upper
43	100		
74	23.2	17.7	26.5

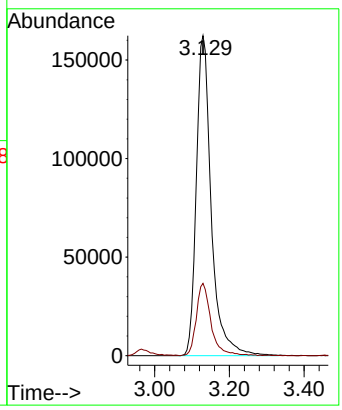




#19
Methyl tert-butyl Ether
Concen: 57.288 ug/l
RT: 3.129 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 73 Resp: 44968

Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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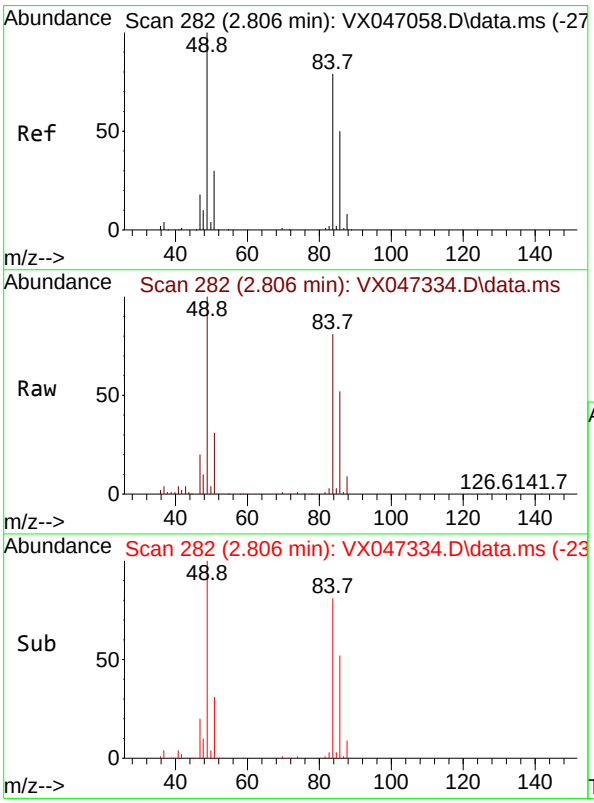
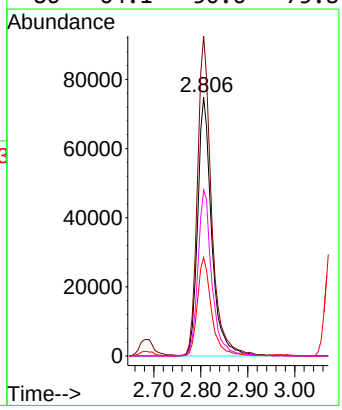
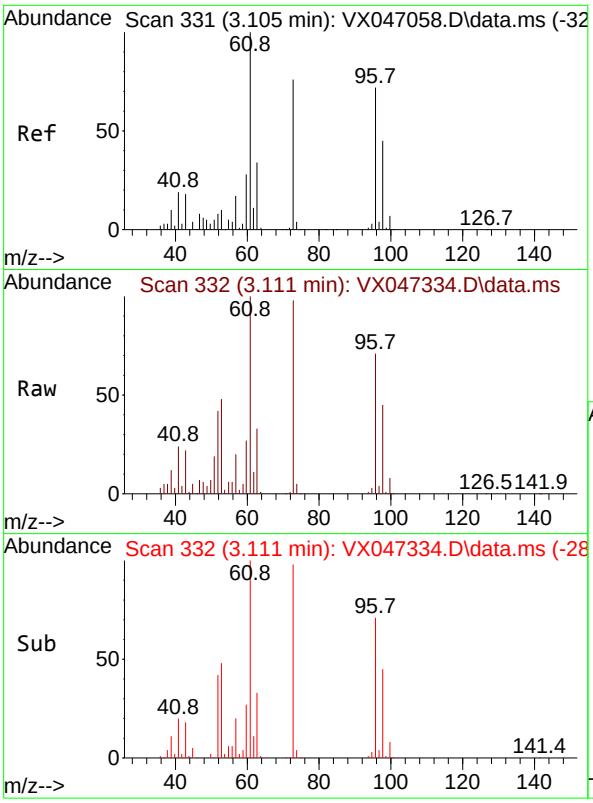


#20
Methylene Chloride
Concen: 55.207 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 84 Resp: 155553

Ion	Ratio	Lower	Upper
84	100		
49	123.5	101.6	152.4
51	37.9	30.3	45.5
86	64.1	50.6	75.8

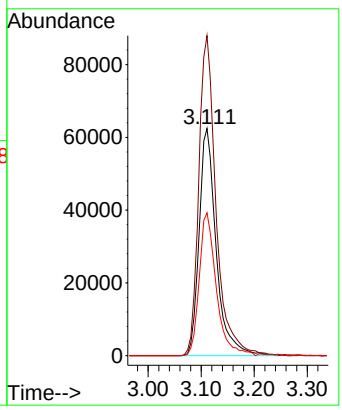




#21
trans-1,2-Dichloroethene
Concen: 53.013 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 96 Resp: 13992

Ion	Ratio	Lower	Upper
96	100		
61	140.8	111.1	166.7
98	64.7	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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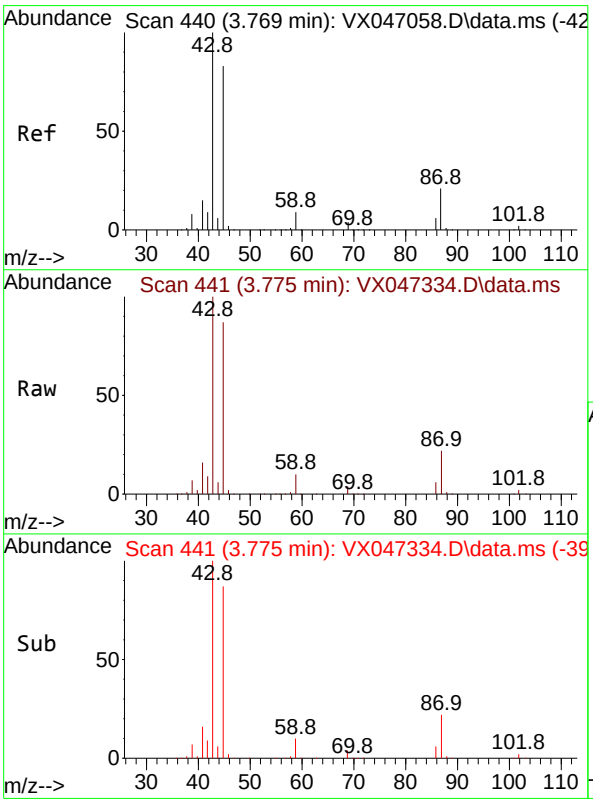
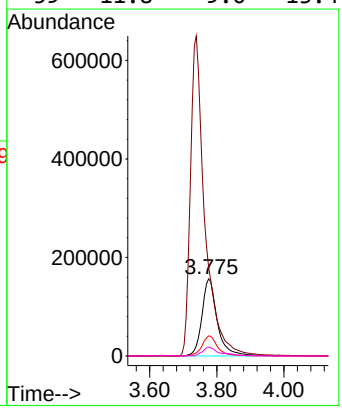
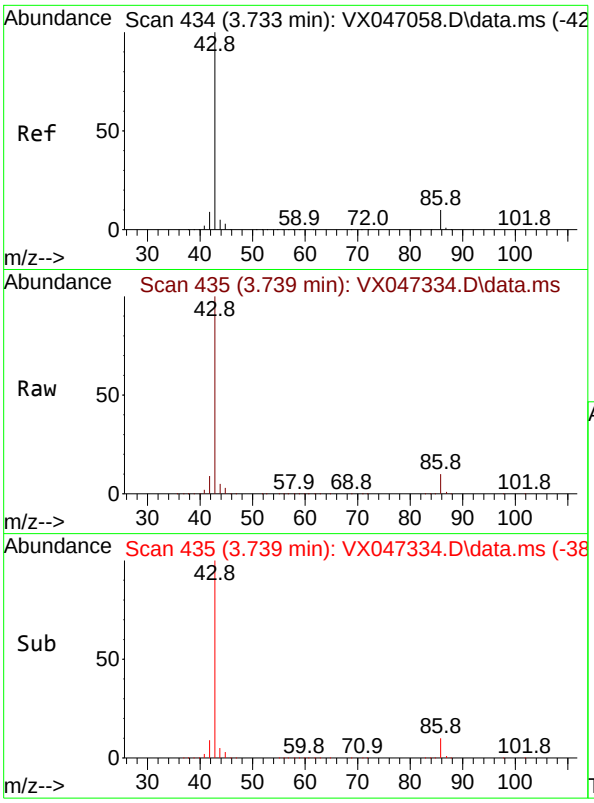


#22
Diisopropyl ether
Concen: 55.568 ug/l
RT: 3.775 min Scan# 441
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 45 Resp: 498100

Ion	Ratio	Lower	Upper
45	100		
43	115.2	96.8	145.2
87	25.9	20.5	30.7
59	11.8	9.0	13.4





#23
Vinyl Acetate
Concen: 271.550 ug/l
RT: 3.739 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 43 Resp: 195231

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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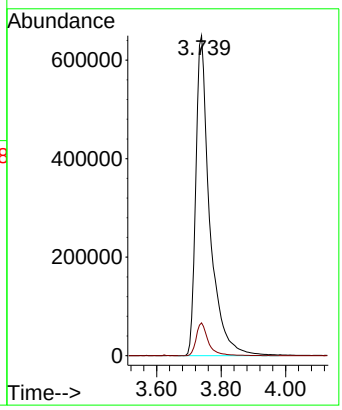
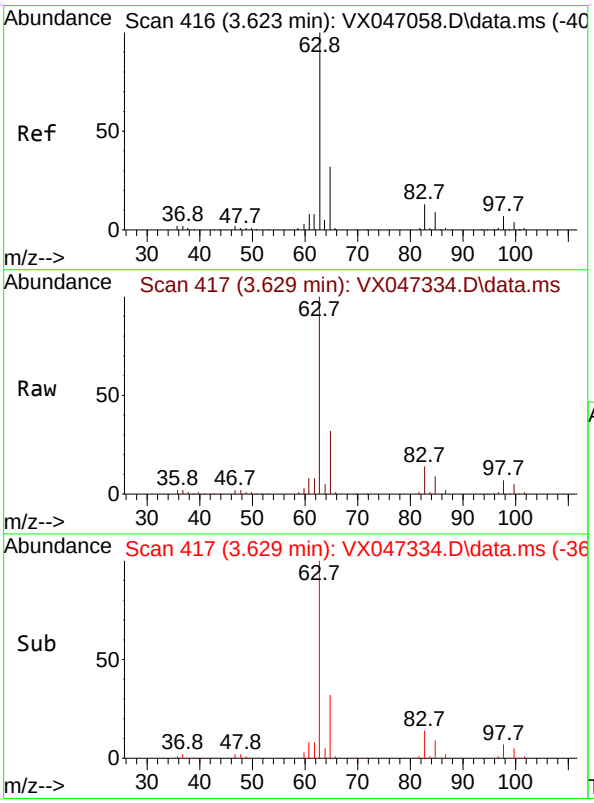
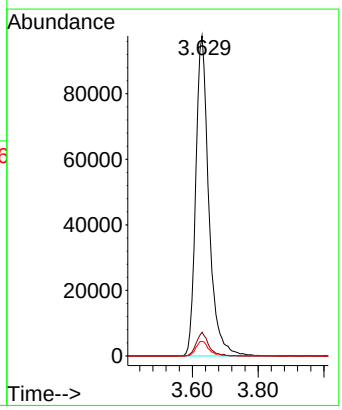


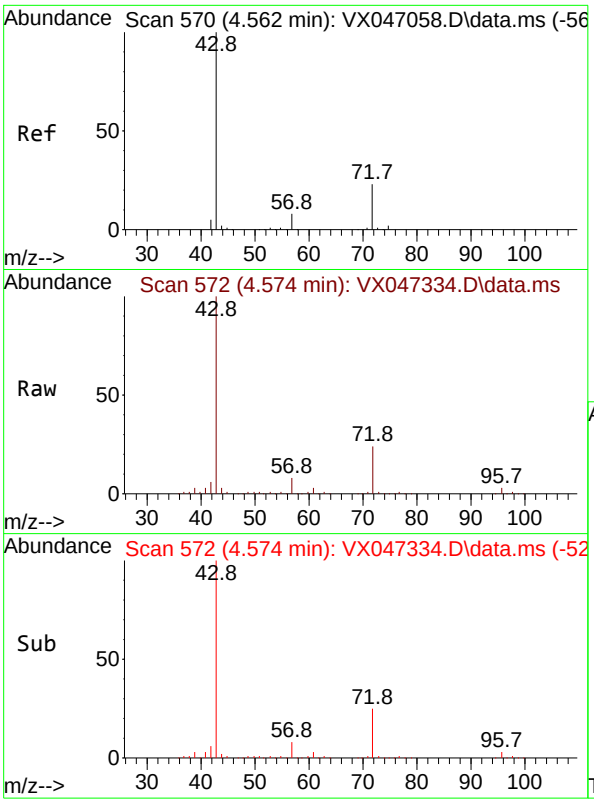


#24
1,1-Dichloroethane
Concen: 54.022 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 63 Resp: 269276

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	4.7	2.3	6.8

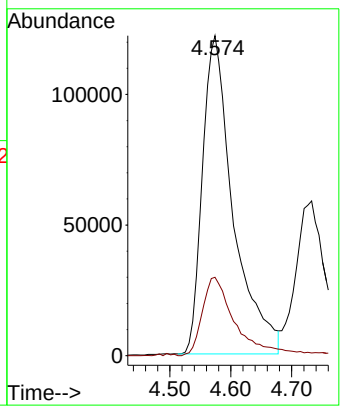




#25
2-Butanone
Concen: 286.642 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 43 Resp: 42746

Ion	Ratio	Lower	Upper
43	100		
72	24.6	18.8	28.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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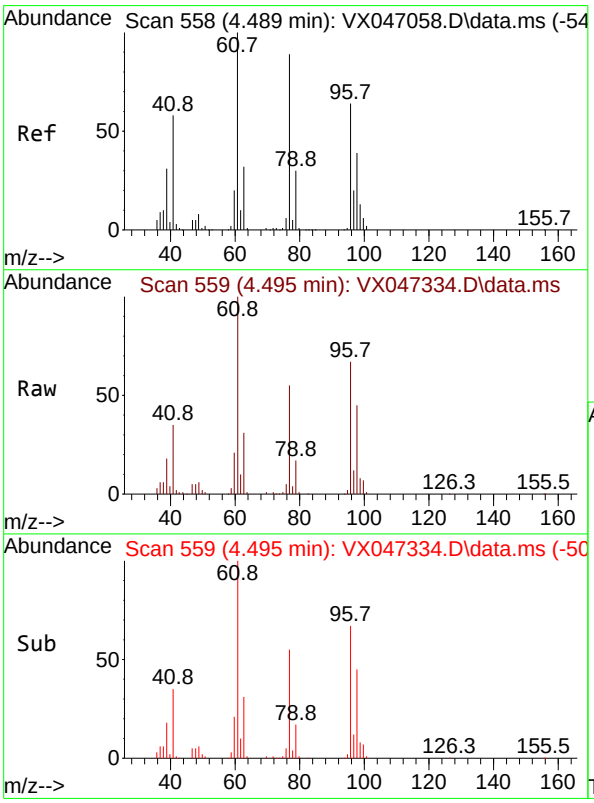
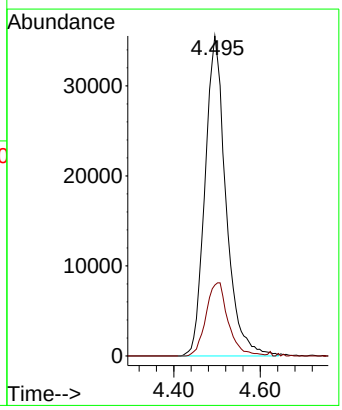
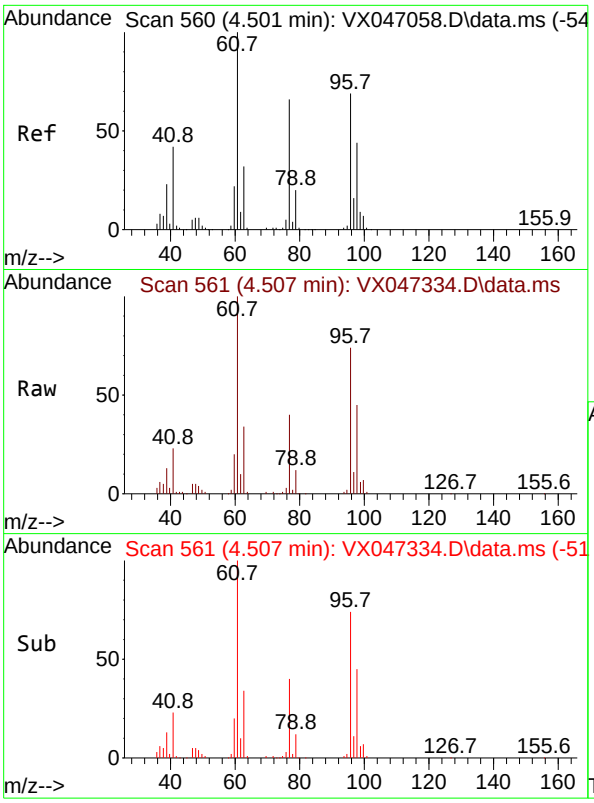


#26
2,2-Dichloropropane
Concen: 30.943 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 77 Resp: 119393

Ion	Ratio	Lower	Upper
77	100		
97	24.3	11.4	34.1

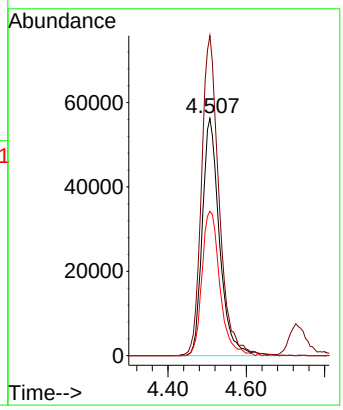




#27
cis-1,2-Dichloroethene
Concen: 54.770 ug/l
RT: 4.507 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 96 Resp: 17117

Ion	Ratio	Lower	Upper
96	100		
61	137.8	0.0	298.6
98	63.3	0.0	128.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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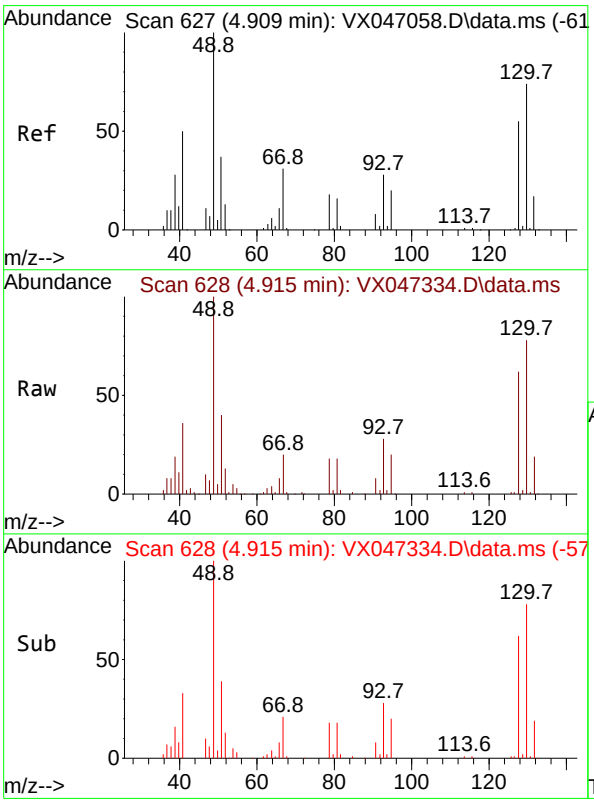
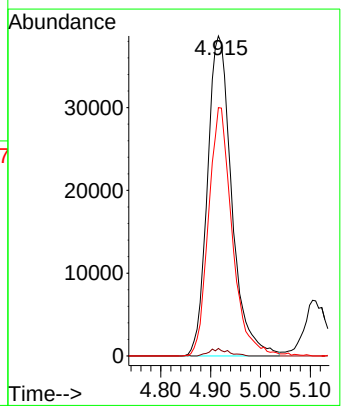
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

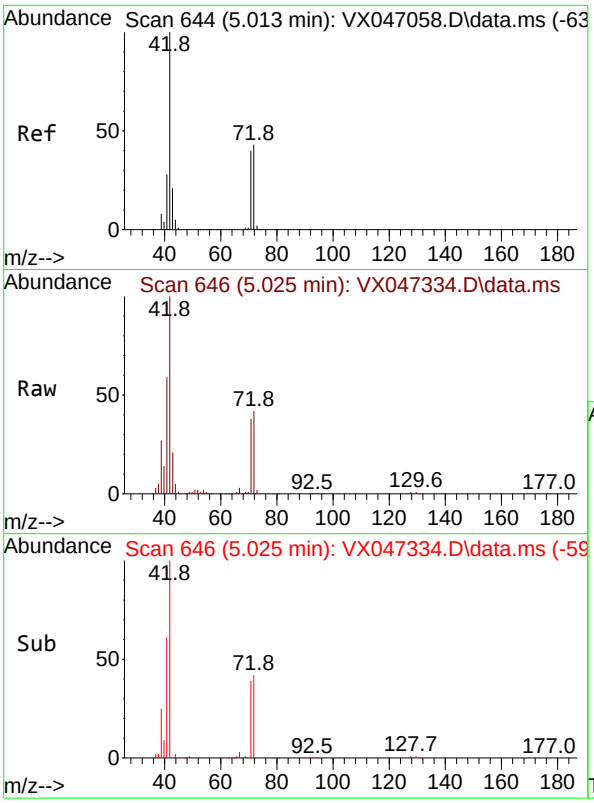


#28
Bromochloromethane
Concen: 57.062 ug/l
RT: 4.915 min Scan# 628
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 49 Resp: 130854

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	75.3	59.0	88.4

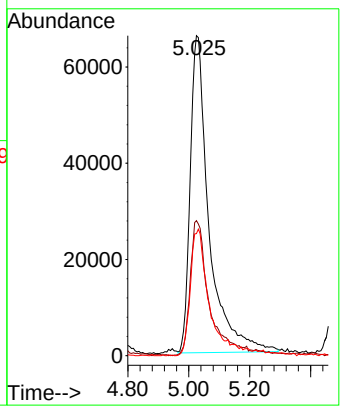




#29
Tetrahydrofuran
Concen: 293.999 ug/l
RT: 5.025 min Scan# 64
Delta R.T. 0.012 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 42 Resp: 28288

Ion	Ratio	Lower	Upper
42	100		
72	43.2	33.7	50.5
71	40.3	31.0	46.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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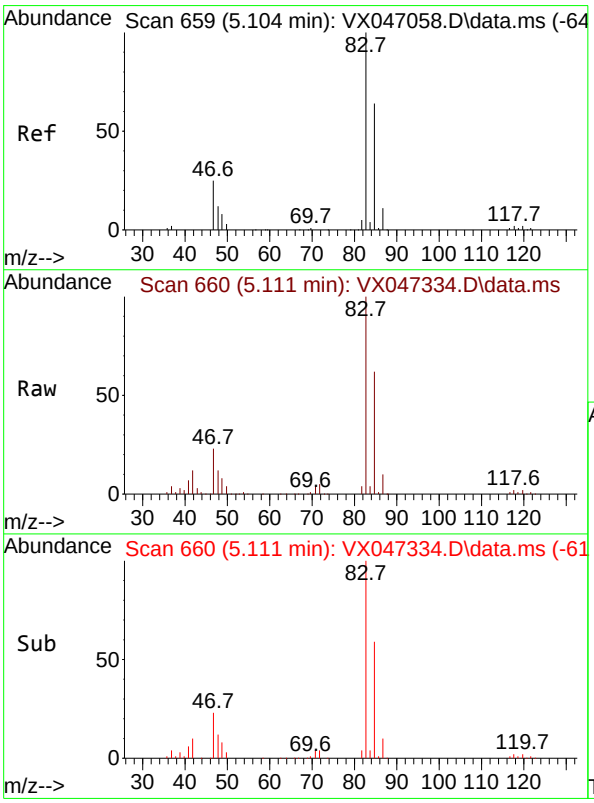
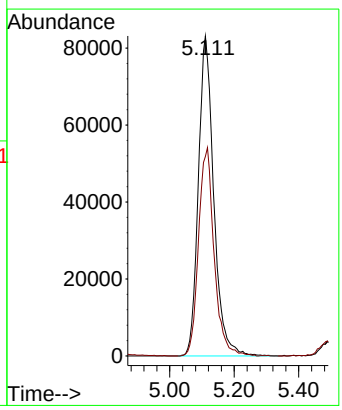
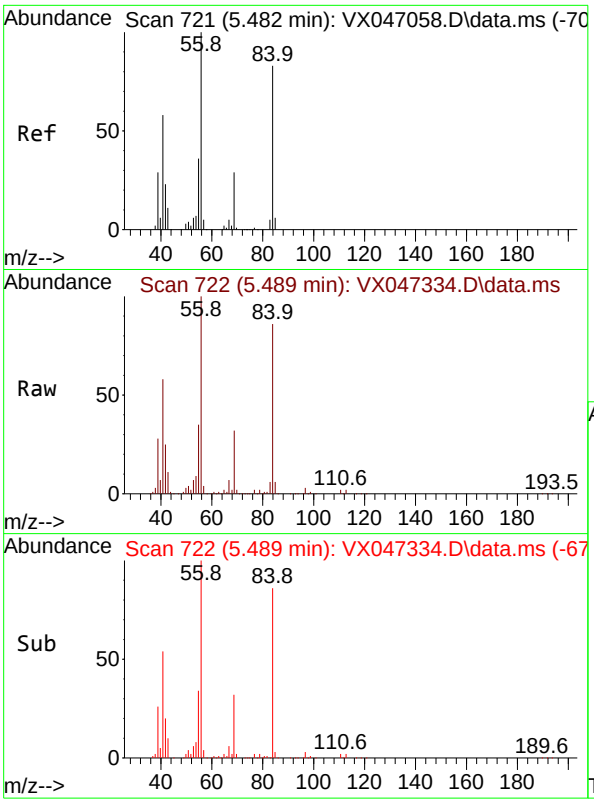


#30
Chloroform
Concen: 54.310 ug/l
RT: 5.111 min Scan# 660
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 83 Resp: 275564

Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.9	76.3

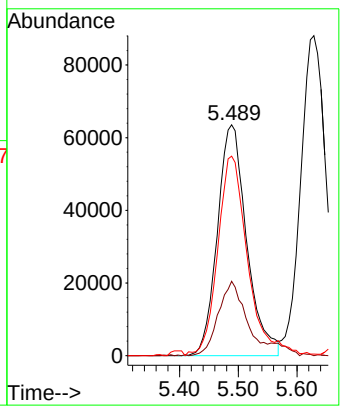




#31
Cyclohexane
Concen: 45.987 ug/l
RT: 5.489 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 56 Resp: 21979

Ion	Ratio	Lower	Upper
56	100		
69	32.0	23.3	34.9
84	84.3	66.5	99.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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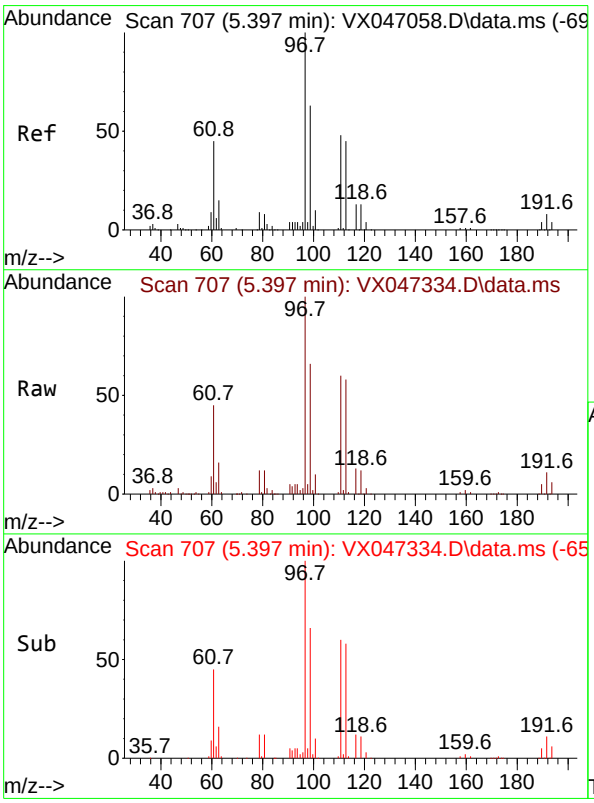
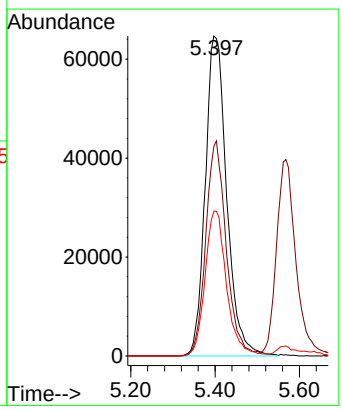
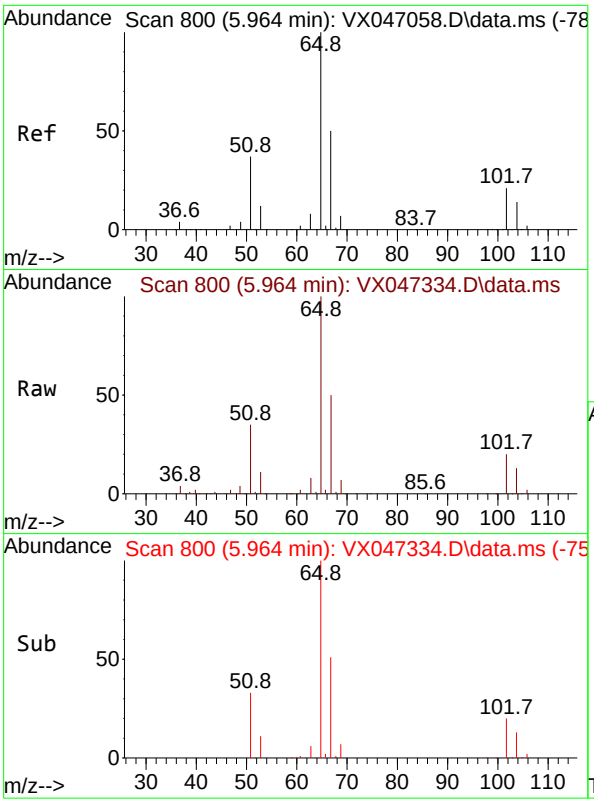


#32
1,1,1-Trichloroethane
Concen: 51.894 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 97 Resp: 228701

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.2	76.8
61	45.5	37.1	55.7

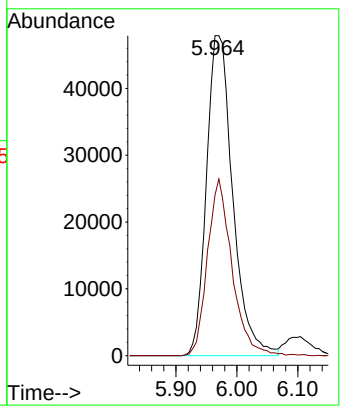




#33
1,2-Dichloroethane-d4
Concen: 56.170 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 65 Resp: 14360

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	104.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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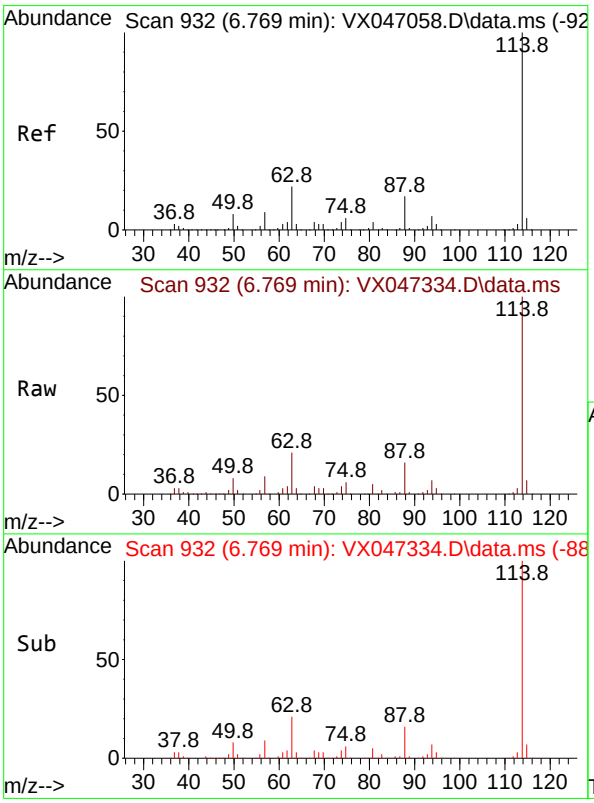
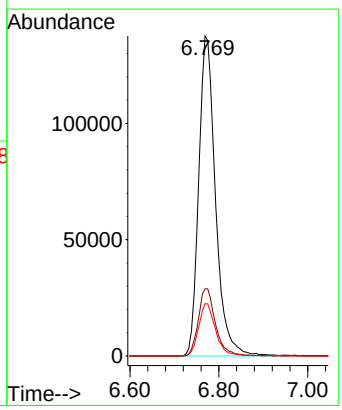
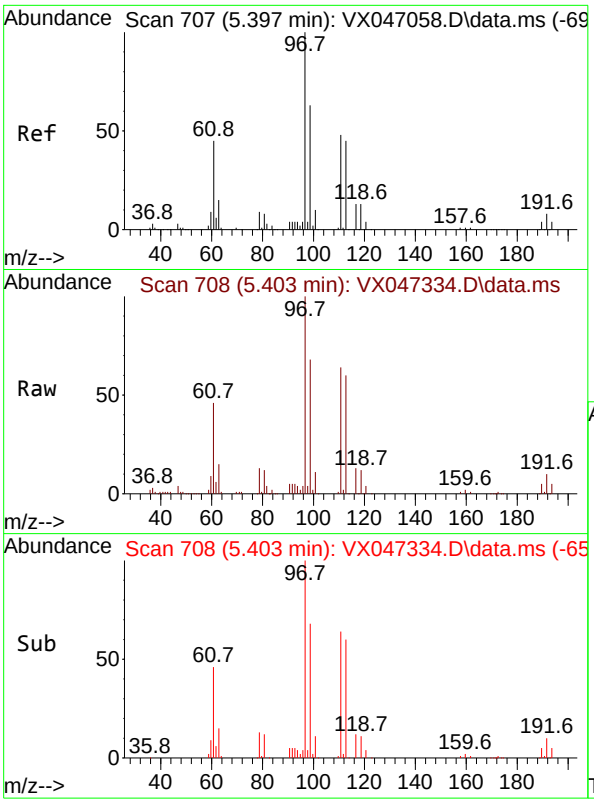


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:114 Resp: 362249

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.2
88	16.4	0.0	33.8

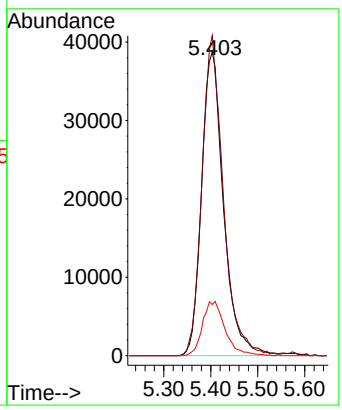




#35
Dibromofluoromethane
Concen: 56.338 ug/l
RT: 5.403 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:113 Resp: 12600

Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.6	124.0
192	18.4	14.9	22.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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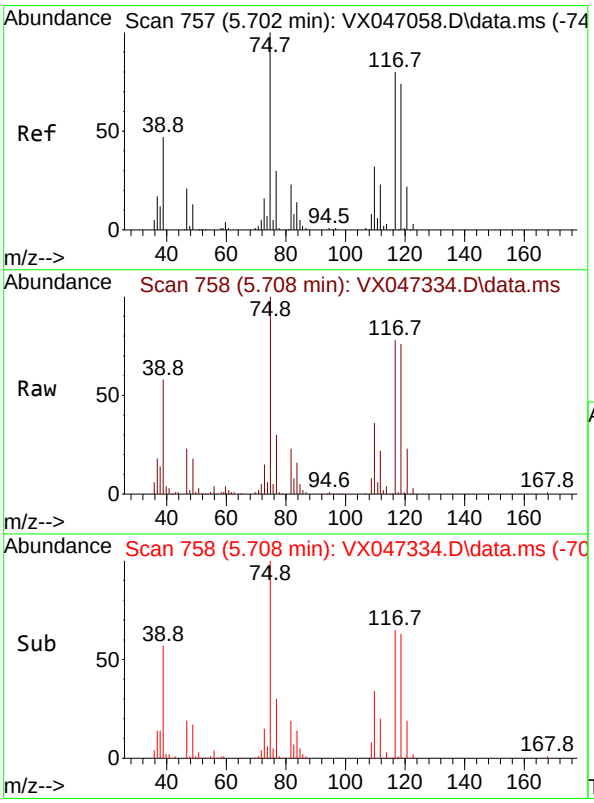
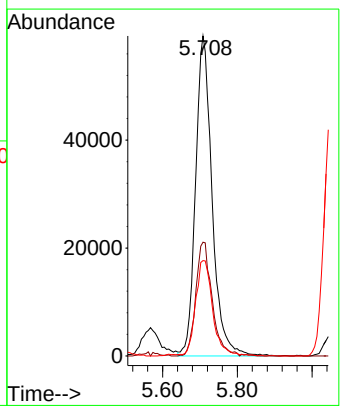
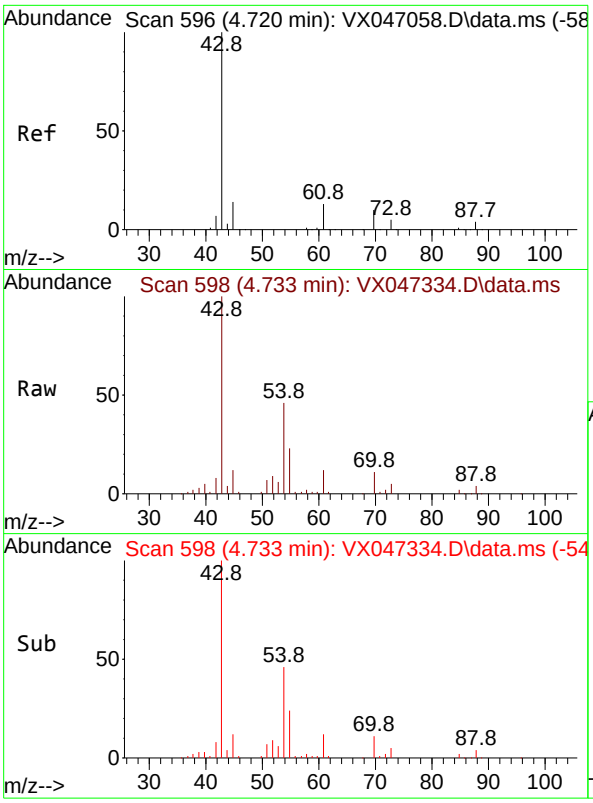


#36
1,1-Dichloropropene
Concen: 47.746 ug/l
RT: 5.708 min Scan# 758
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 75 Resp: 182035

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.2	51.5
77	30.9	25.1	37.7





#37
Ethyl Acetate
Concen: 61.671 ug/l
RT: 4.733 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 43 Resp: 21665

Ion	Ratio	Lower	Upper
43	100		
61	11.0	10.2	15.2
70	9.3	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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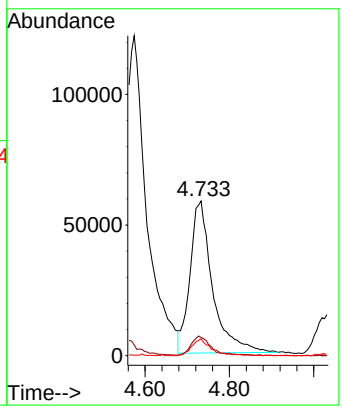
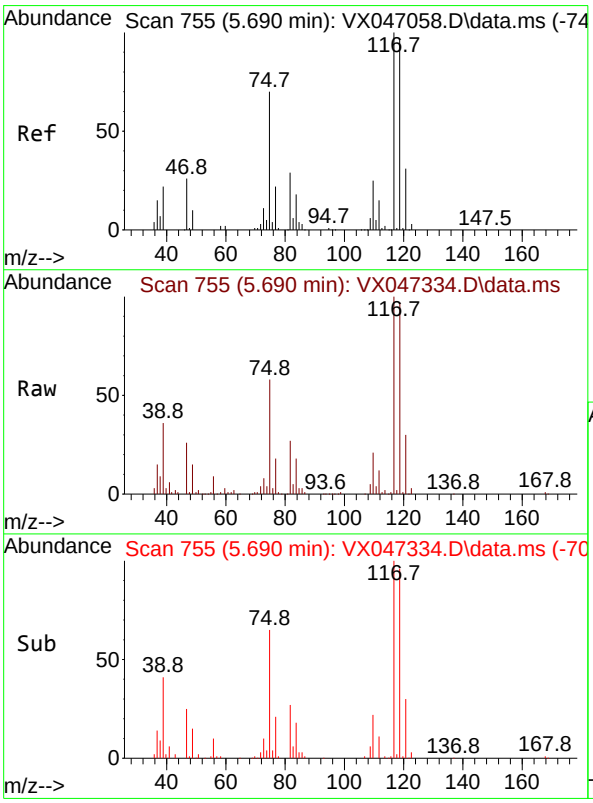
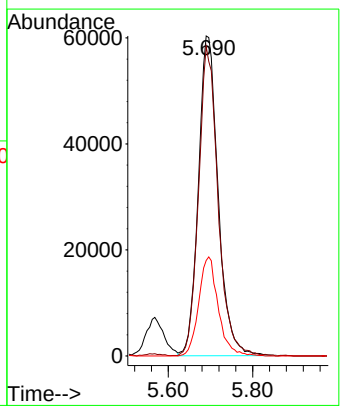


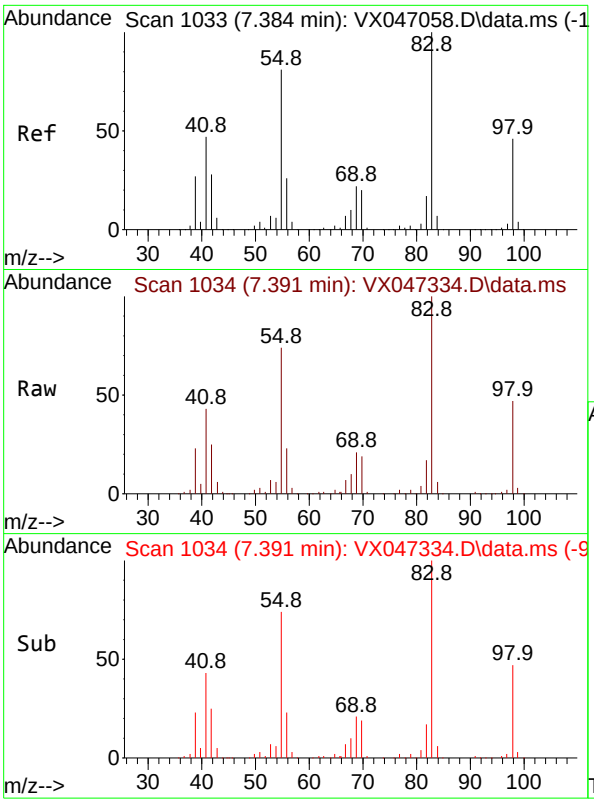


#38
Carbon Tetrachloride
Concen: 48.436 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:117 Resp: 197096

Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.6	115.0
121	29.9	24.4	36.6

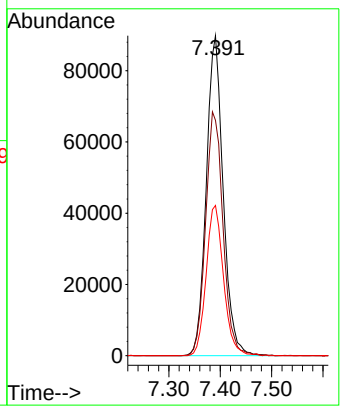




#39
Methylcyclohexane
Concen: 42.990 ug/l
RT: 7.391 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 83 Resp: 20464

Ion	Ratio	Lower	Upper
83	100		
55	73.6	64.5	96.7
98	46.9	36.9	55.3



Instrument :
MSVOA_X
ClientSampleId :
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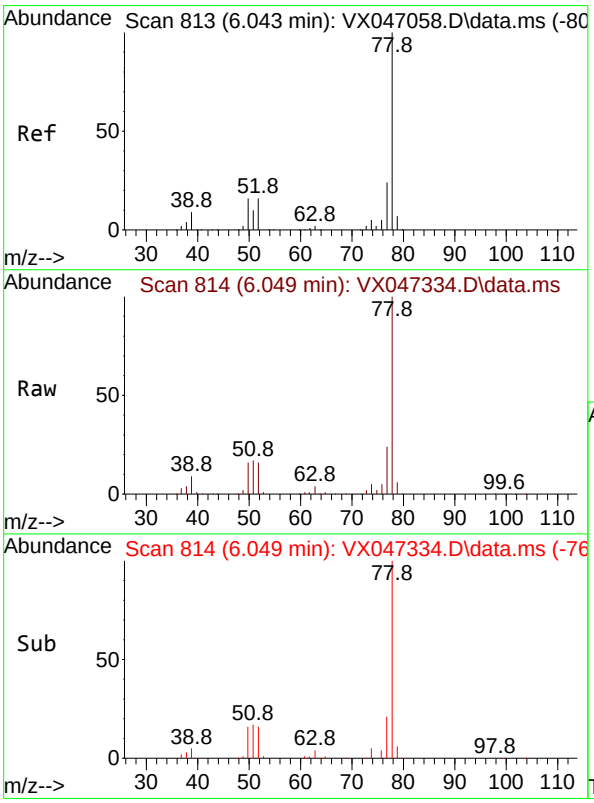
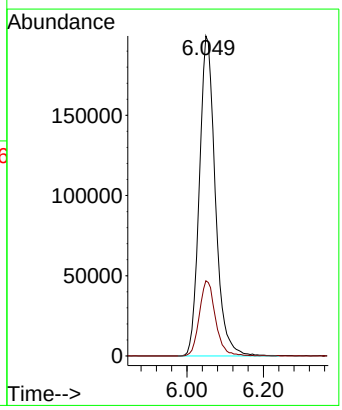
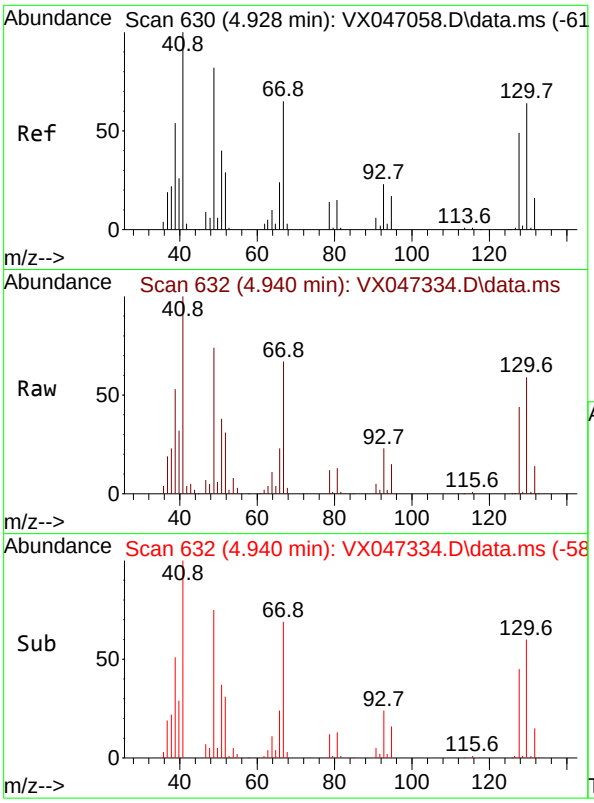


#40
Benzene
Concen: 52.258 ug/l
RT: 6.049 min Scan# 814
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 78 Resp: 576594

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4

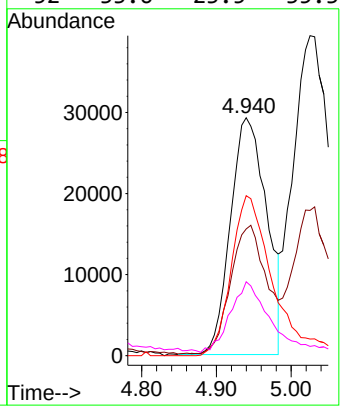




#41
Methacrylonitrile
Concen: 53.704 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.012 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 41 Resp: 9864

Ion	Ratio	Lower	Upper
41	100		
39	53.6	44.2	66.2
67	79.5	56.4	84.6
52	33.6	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
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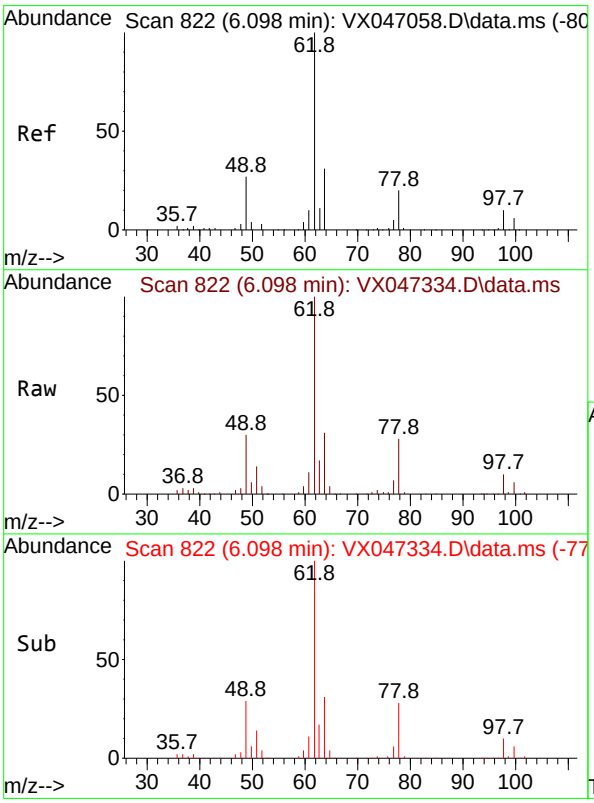
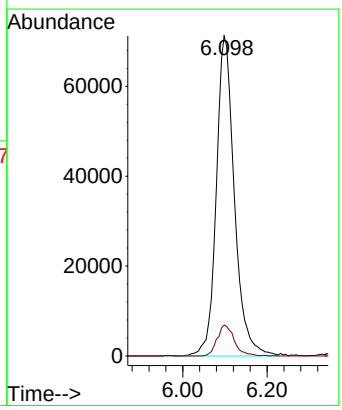
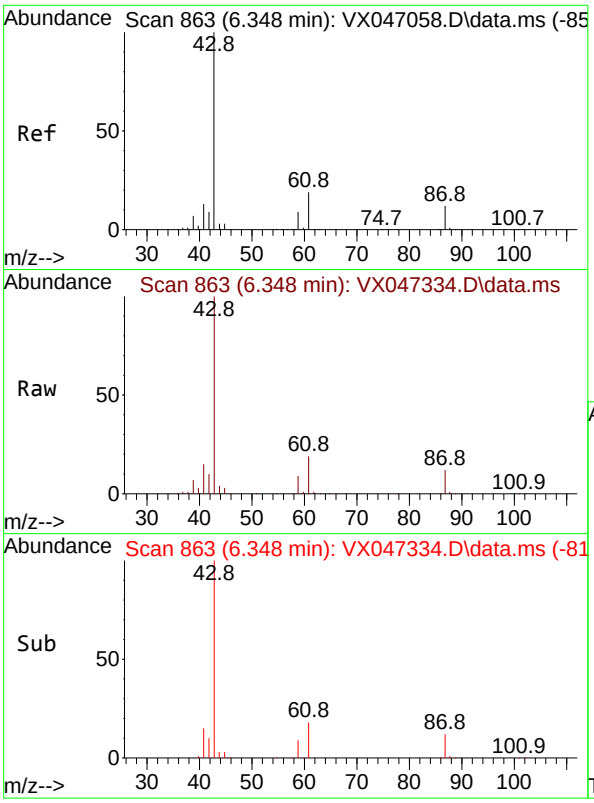


#42
1,2-Dichloroethane
Concen: 54.449 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 62 Resp: 211626

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.8

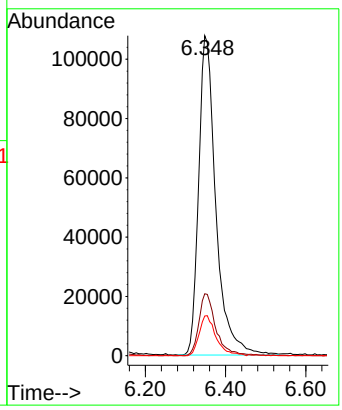




#43
Isopropyl Acetate
Concen: 58.771 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 43 Resp: 32187

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.1	22.7
87	12.2	9.7	14.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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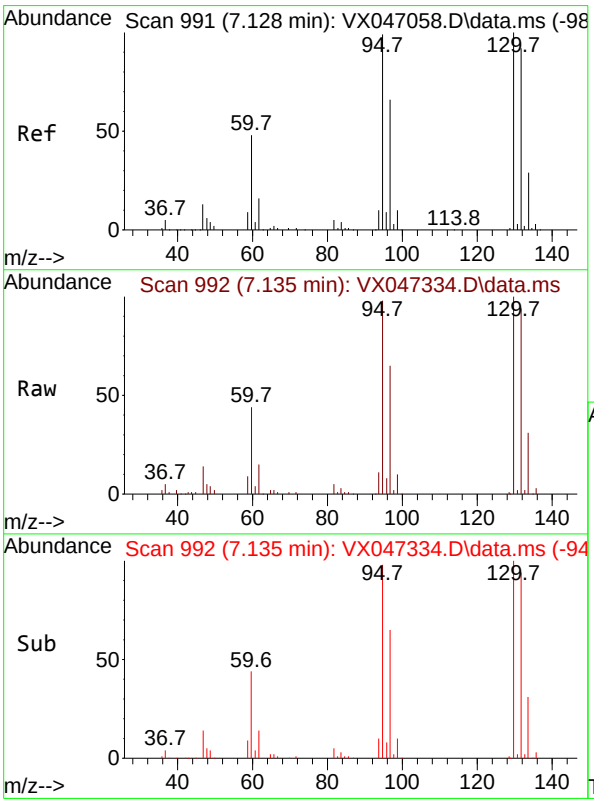
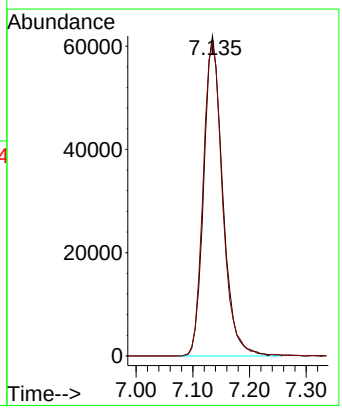
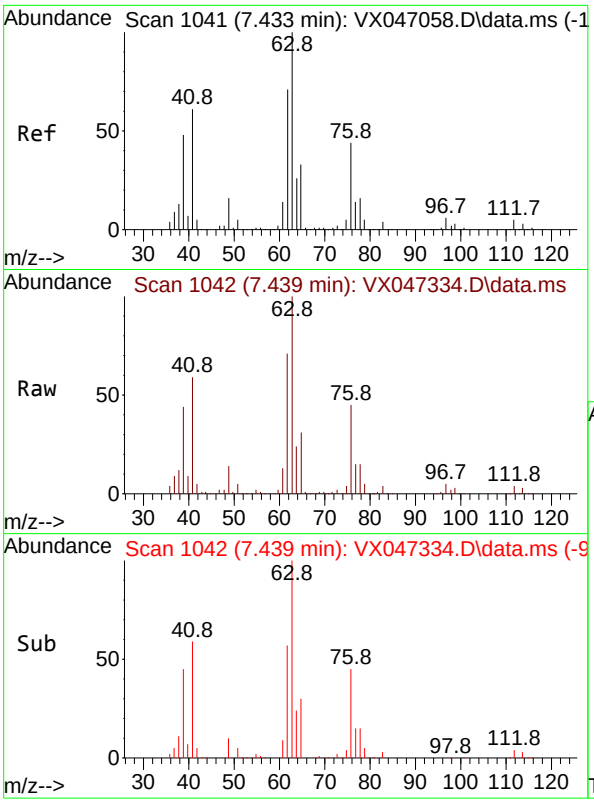


#44
Trichloroethene
Concen: 50.839 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:130 Resp: 143842

Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	198.6

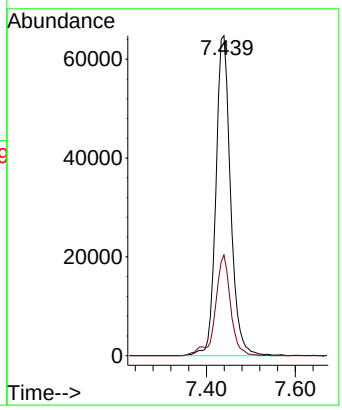




#45
1,2-Dichloropropane
Concen: 53.617 ug/l
RT: 7.439 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 63 Resp: 14816

Ion	Ratio	Lower	Upper
63	100		
65	31.4	26.3	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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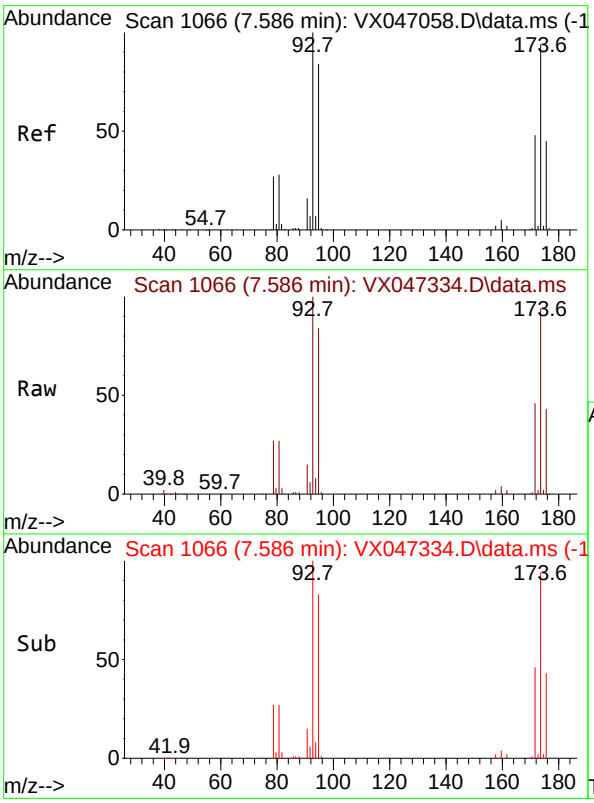
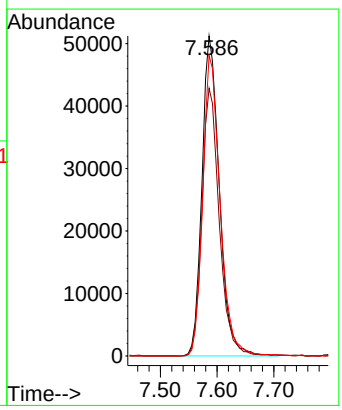
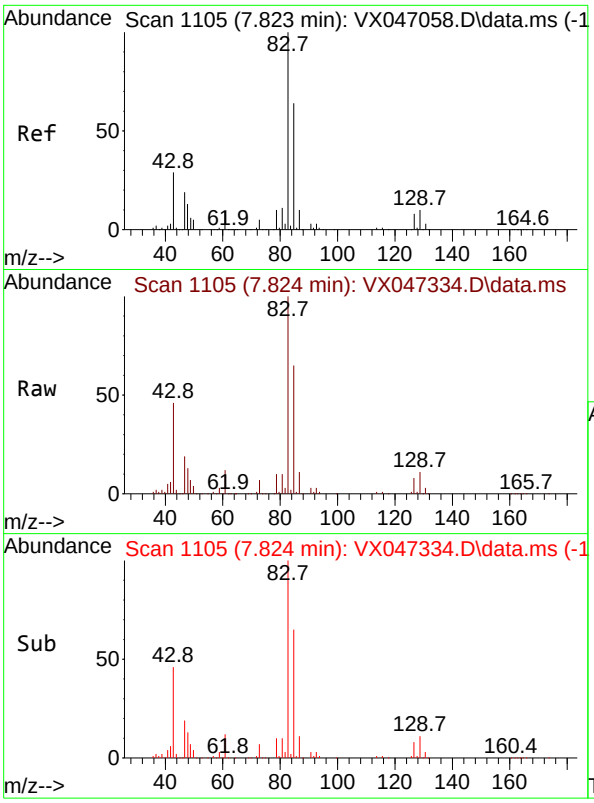


#46
Dibromomethane
Concen: 56.394 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 93 Resp: 109285

Ion	Ratio	Lower	Upper
93	100		
95	83.5	65.9	98.9
174	93.5	74.6	112.0

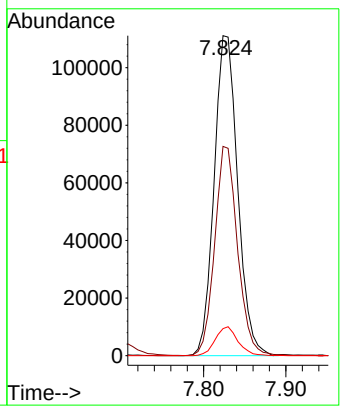




#47
Bromodichloromethane
Concen: 53.726 ug/l
RT: 7.824 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 83 Resp: 22160

Ion	Ratio	Lower	Upper
83	100		
85	66.3	49.9	74.9
127	8.4	6.6	10.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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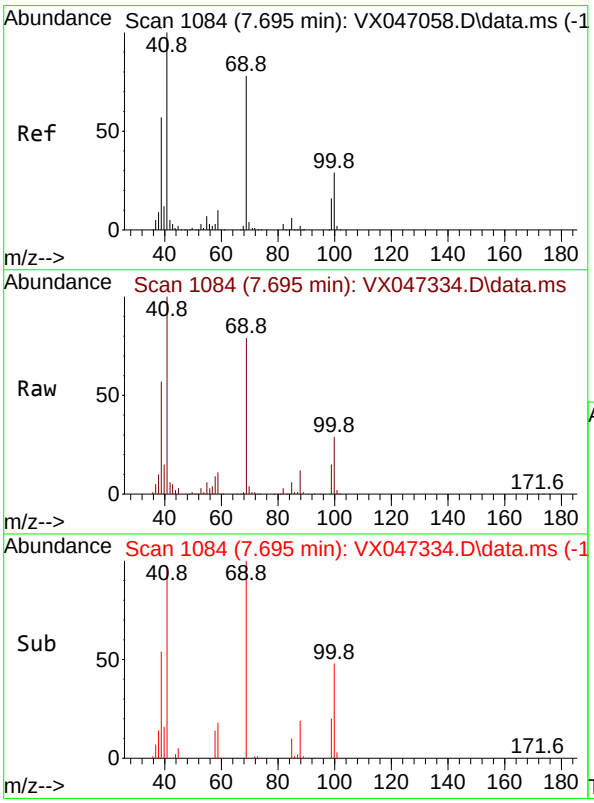
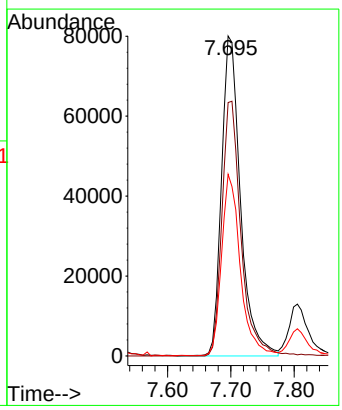
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

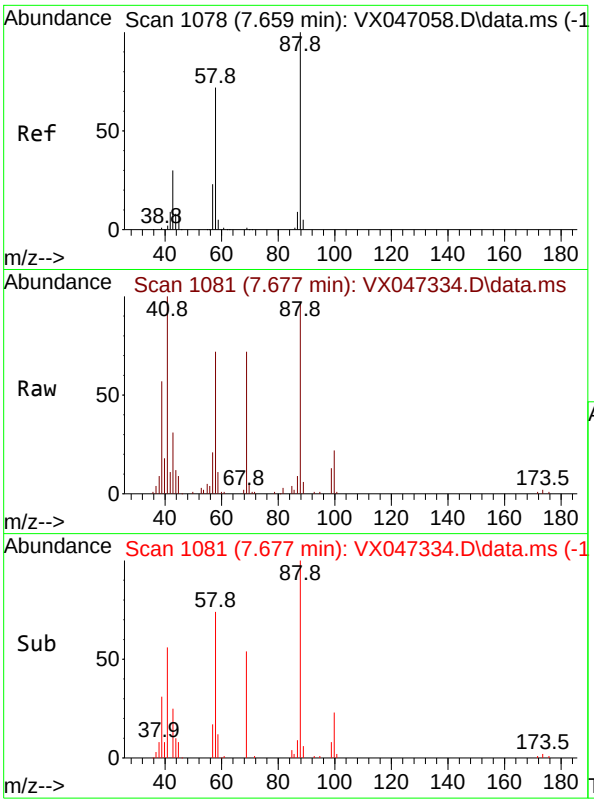


#48
Methyl methacrylate
Concen: 55.869 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 41 Resp: 166691

Ion	Ratio	Lower	Upper
41	100		
69	80.1	62.3	93.5
39	56.0	44.8	67.2





#49
1,4-Dioxane
Concen: 1096.675 ug/l
RT: 7.677 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 88 Resp: 3721

Ion	Ratio	Lower	Upper
88	100		
43	40.2	33.6	50.4
58	72.9	58.8	88.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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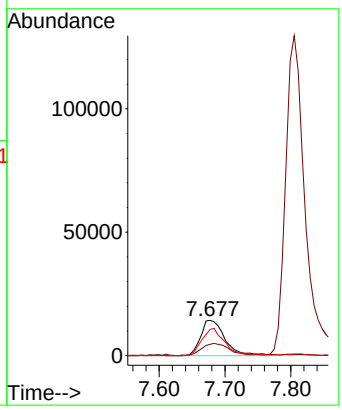
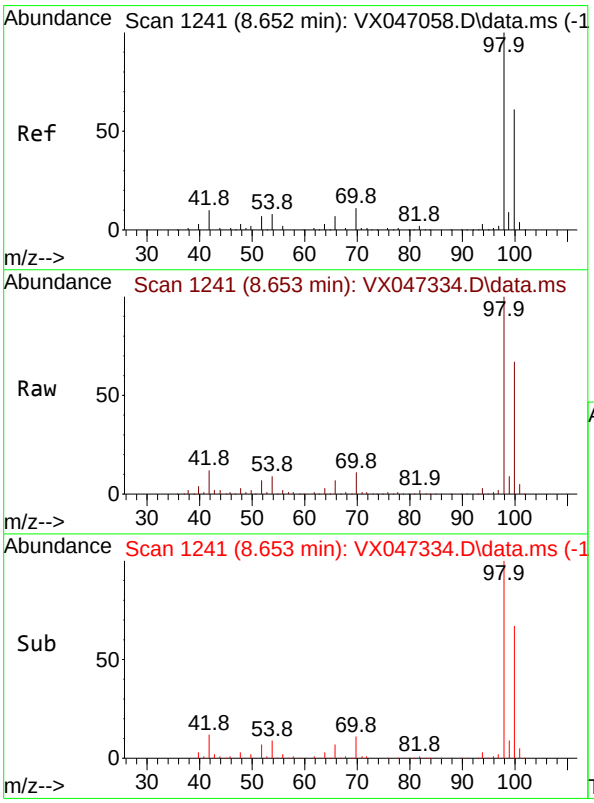
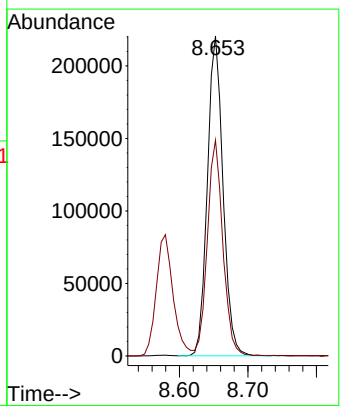


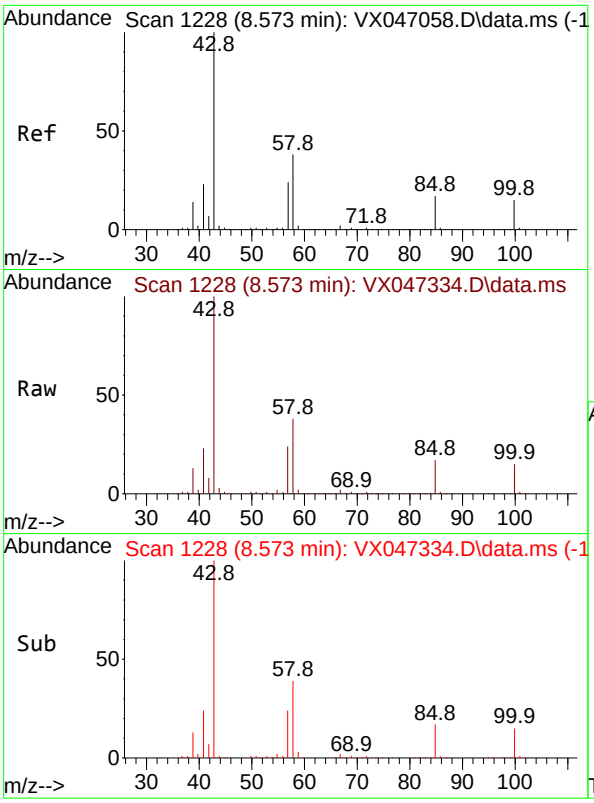


#50
Toluene-d8
Concen: 48.401 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 98 Resp: 350581

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.3	79.9

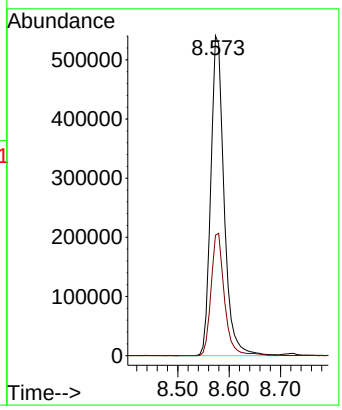




#51
4-Methyl-2-Pentanone
Concen: 298.510 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 43 Resp: 97175

Ion	Ratio	Lower	Upper
43	100		
58	38.6	30.6	45.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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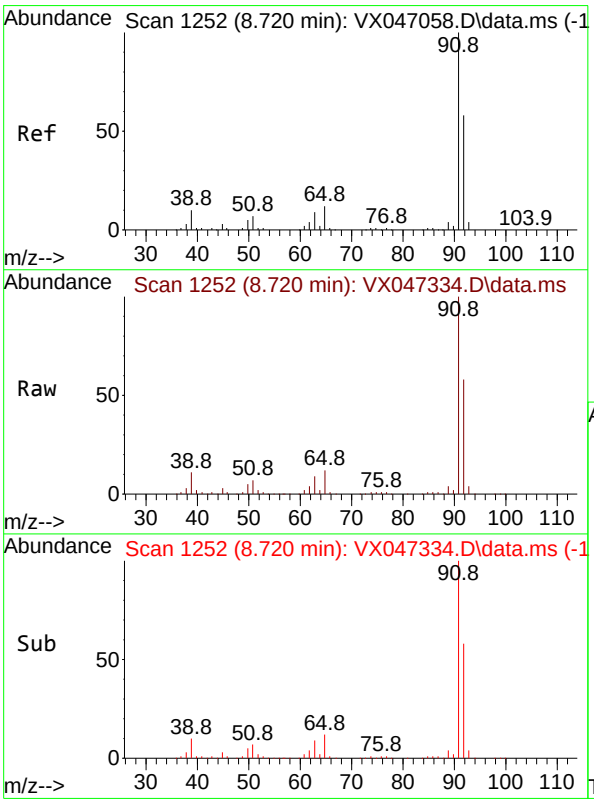
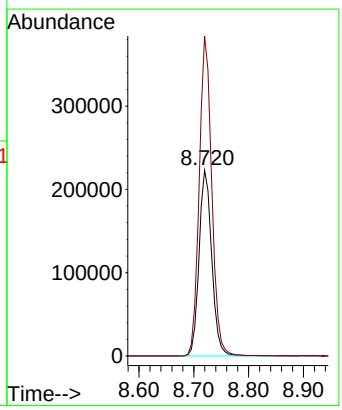
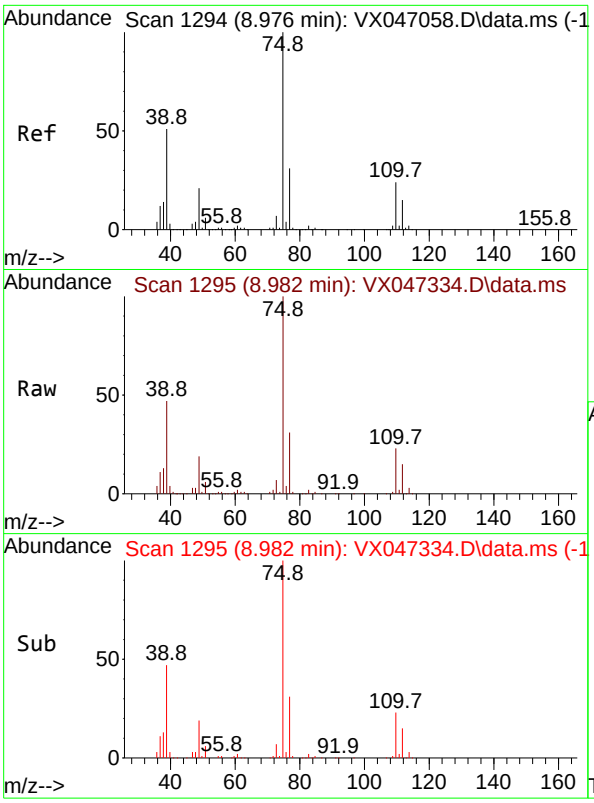


#52
Toluene
Concen: 52.894 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 92 Resp: 358851

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.9	206.9

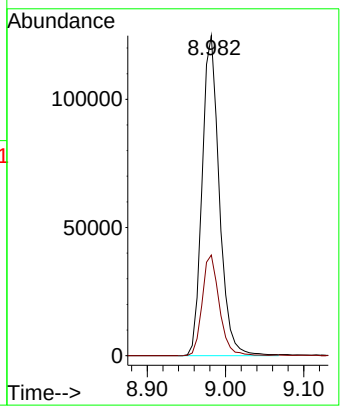




#53
t-1,3-Dichloropropene
Concen: 48.781 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 75 Resp: 19000

Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.5	36.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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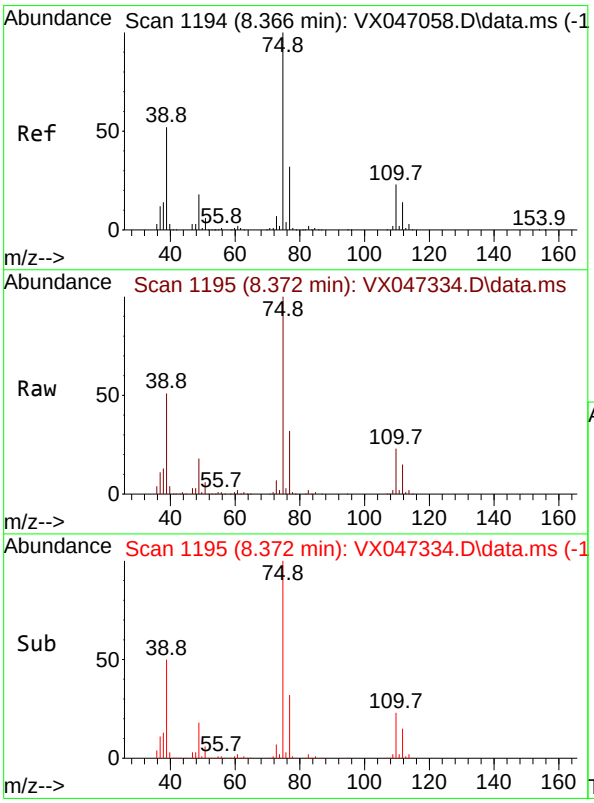
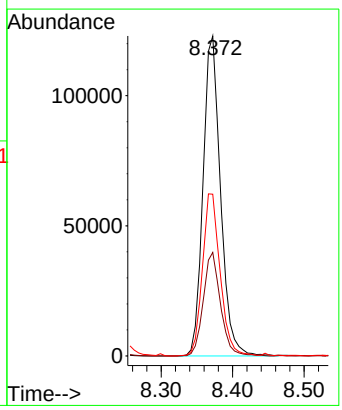
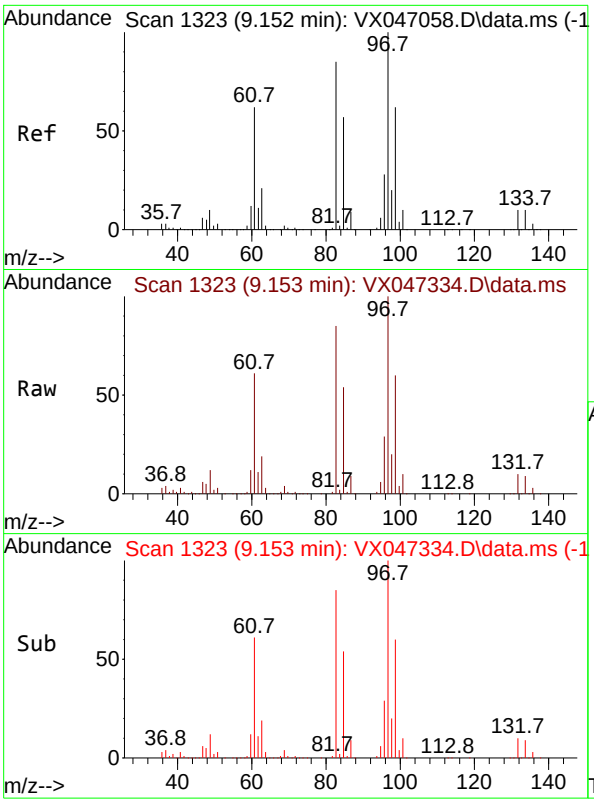


#54
cis-1,3-Dichloropropene
Concen: 49.007 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 75 Resp: 208919

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.4	38.0
39	50.3	41.8	62.6

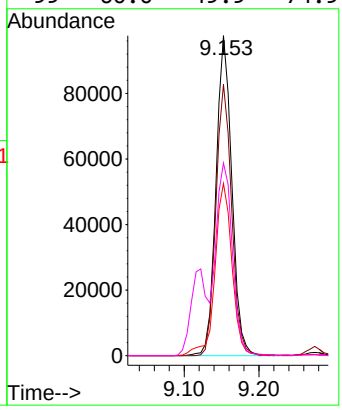




#55
1,1,2-Trichloroethane
Concen: 56.437 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 97 Resp: 14359

Ion	Ratio	Lower	Upper
97	100		
83	84.7	68.0	102.0
85	53.7	45.2	67.8
99	60.0	49.9	74.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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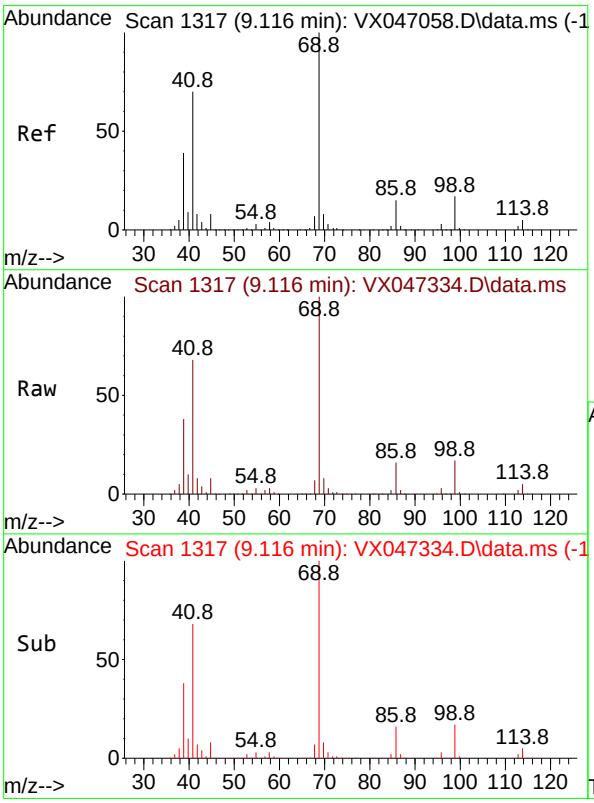
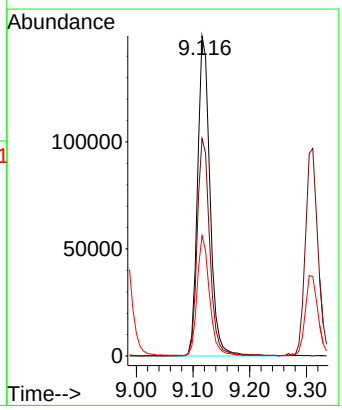
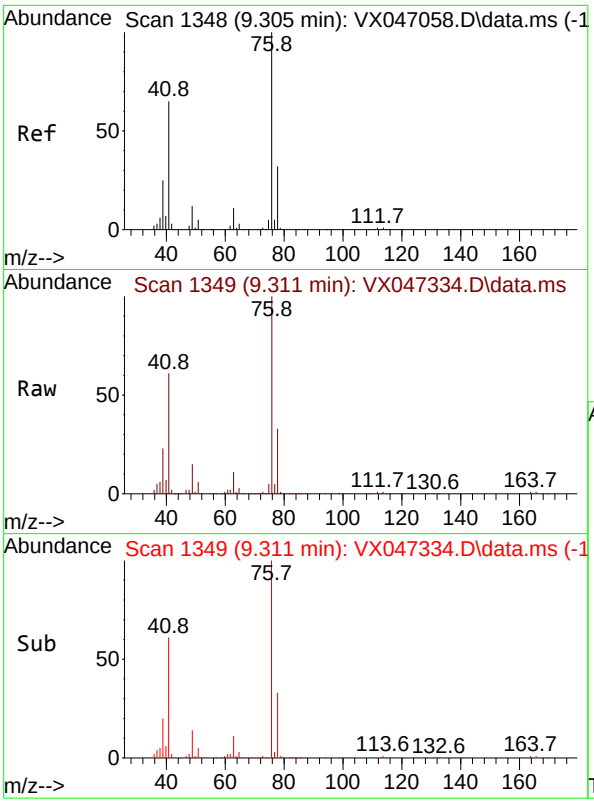


#56
Ethyl methacrylate
Concen: 60.258 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 69 Resp: 226969

Ion	Ratio	Lower	Upper
69	100		
41	68.8	56.1	84.1
39	37.1	31.1	46.7

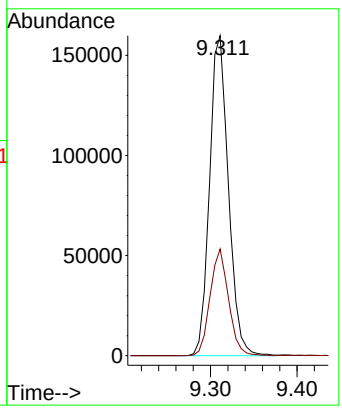




#57
1,3-Dichloropropane
Concen: 54.612 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 76 Resp: 24148

Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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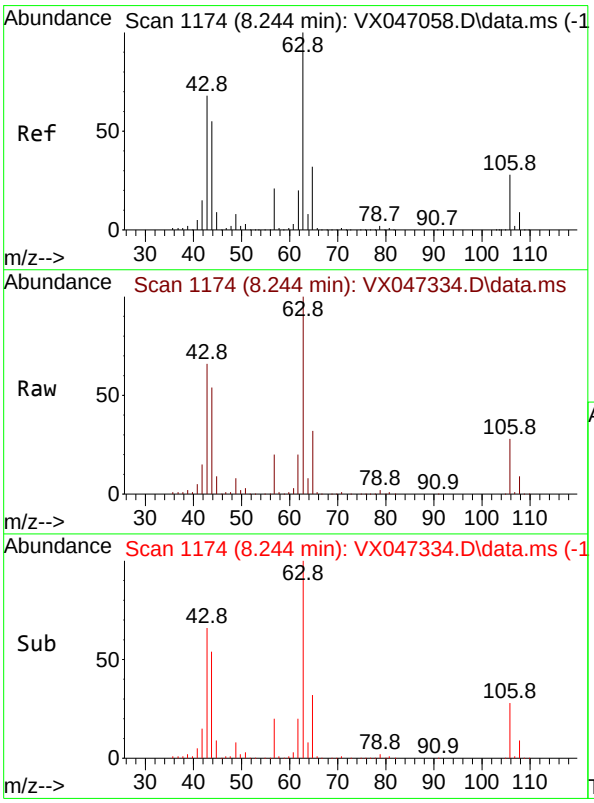
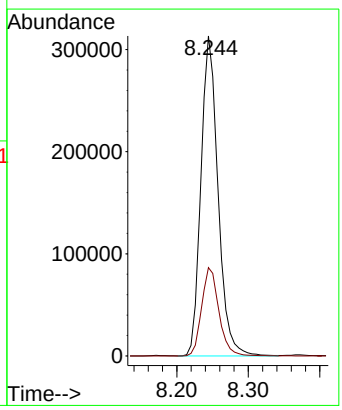
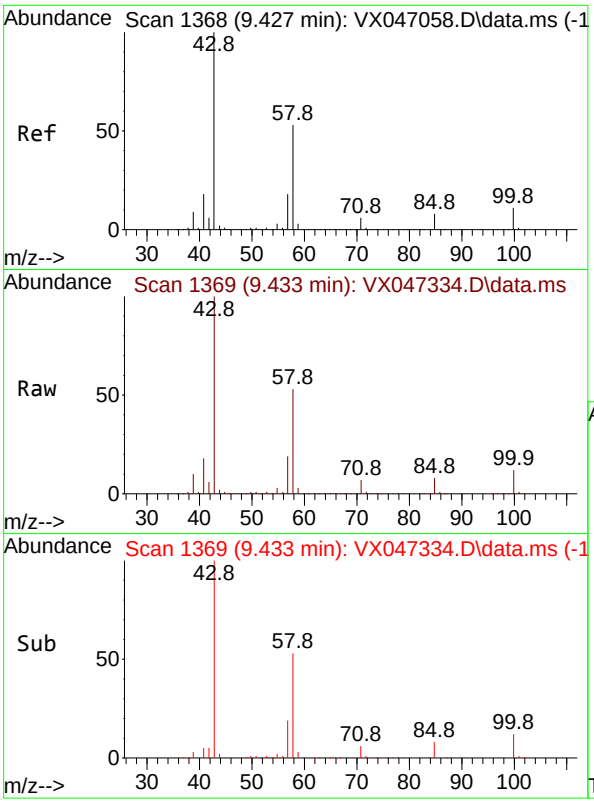


#58
2-Chloroethyl Vinyl ether
Concen: 248.283 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 63 Resp: 520399

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.2	33.4

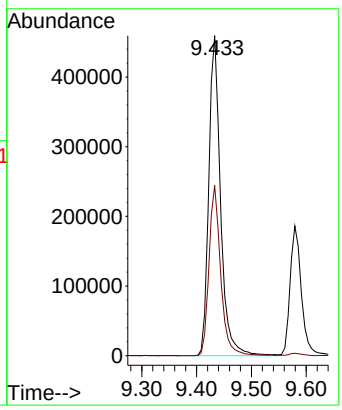




#59
2-Hexanone
Concen: 317.134 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 43 Resp: 68207

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.5	79.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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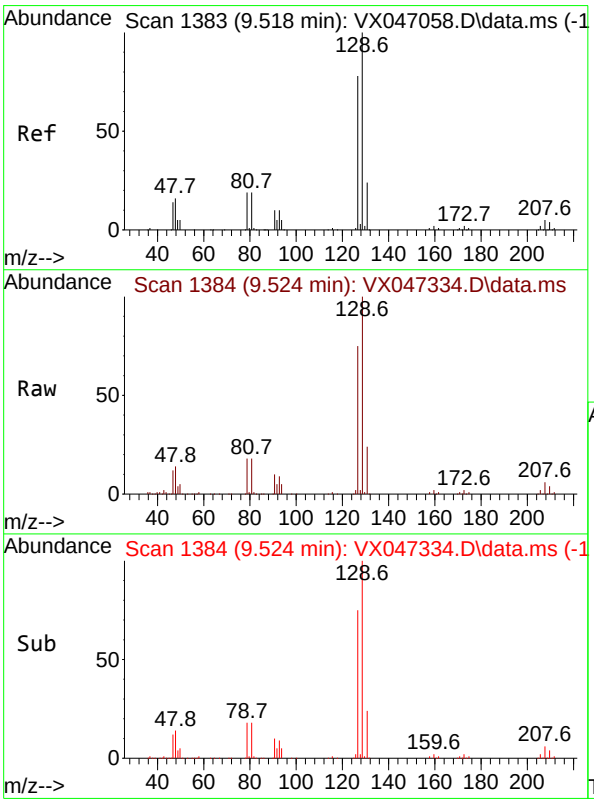
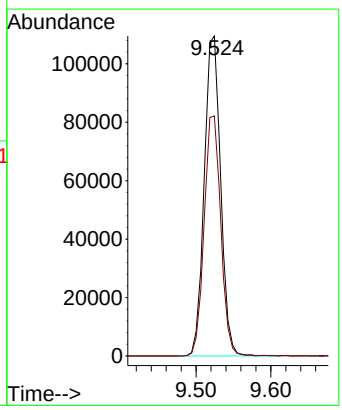
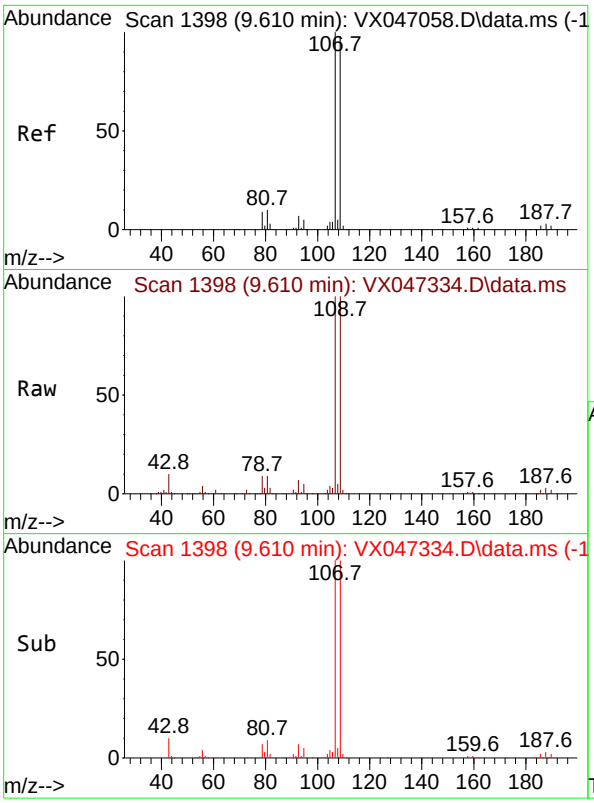


#60
Dibromochloromethane
Concen: 55.953 ug/l
RT: 9.524 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:129 Resp: 166965

Ion	Ratio	Lower	Upper
129	100		
127	76.0	38.6	115.8

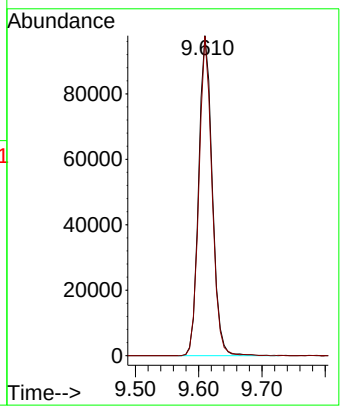




#61
1,2-Dibromoethane
Concen: 54.984 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:107 Resp: 14627

Ion	Ratio	Lower	Upper
107	100		
109	95.9	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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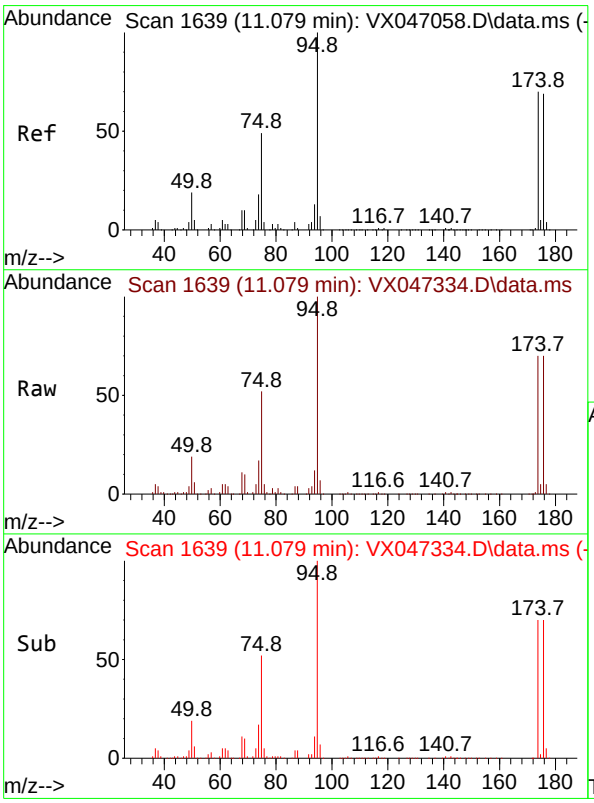
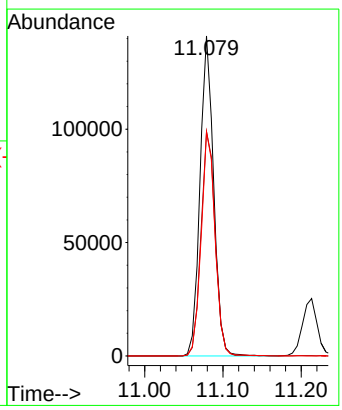
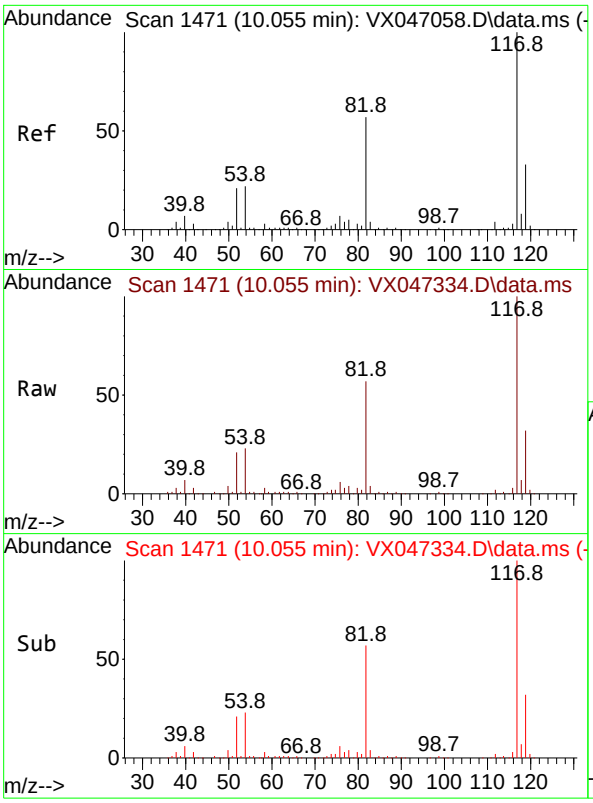


#62
4-Bromofluorobenzene
Concen: 54.458 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 95 Resp: 169988

Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	144.6
176	71.4	0.0	139.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:117 Resp: 32885(

Ion	Ratio	Lower	Upper
117	100		
82	57.0	45.4	68.2
119	32.0	26.1	39.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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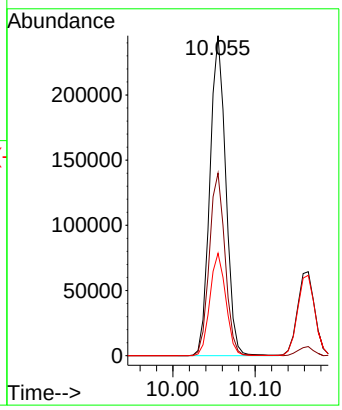
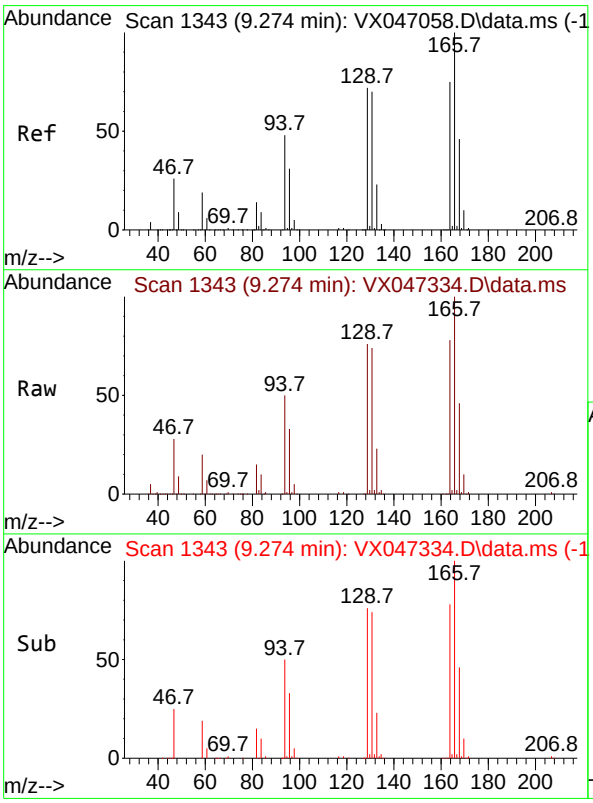
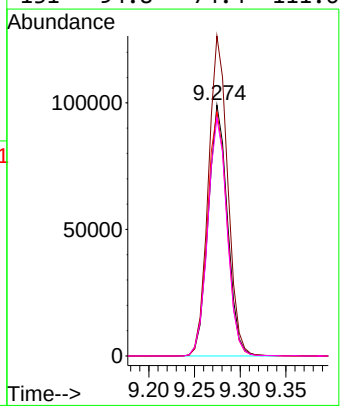


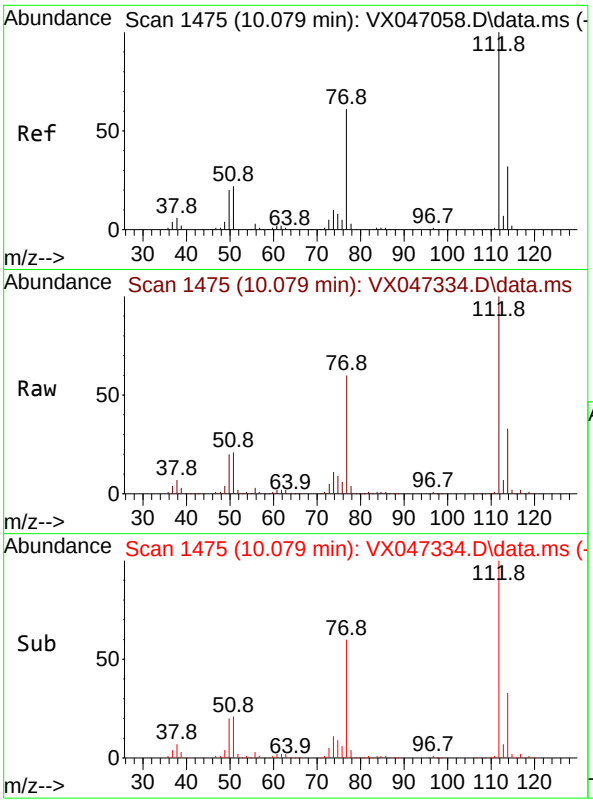


#64
Tetrachloroethene
Concen: 61.091 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:164 Resp: 144828

Ion	Ratio	Lower	Upper
164	100		
166	127.6	106.2	159.4
129	97.3	76.6	114.8
131	94.8	74.4	111.6

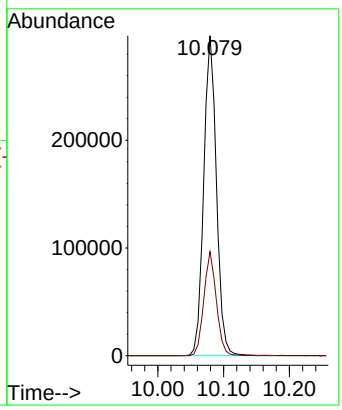




#65
Chlorobenzene
Concen: 51.735 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:112 Resp: 39856

Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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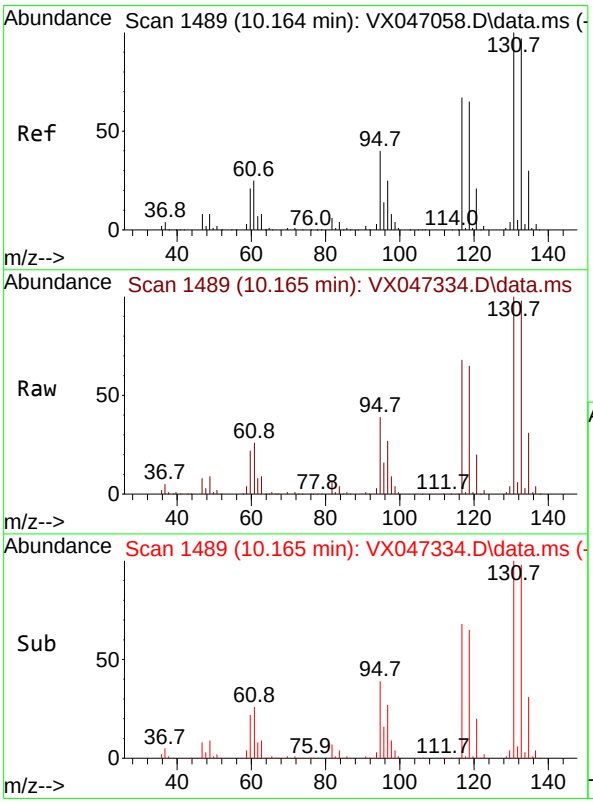
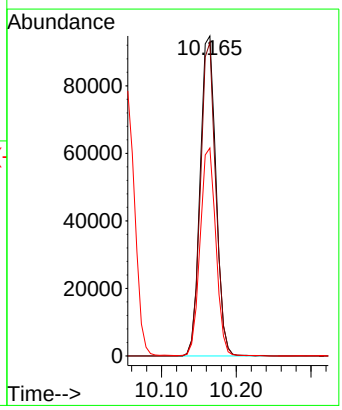
Supervised By :Mahesh Dadoda 08/18/2025

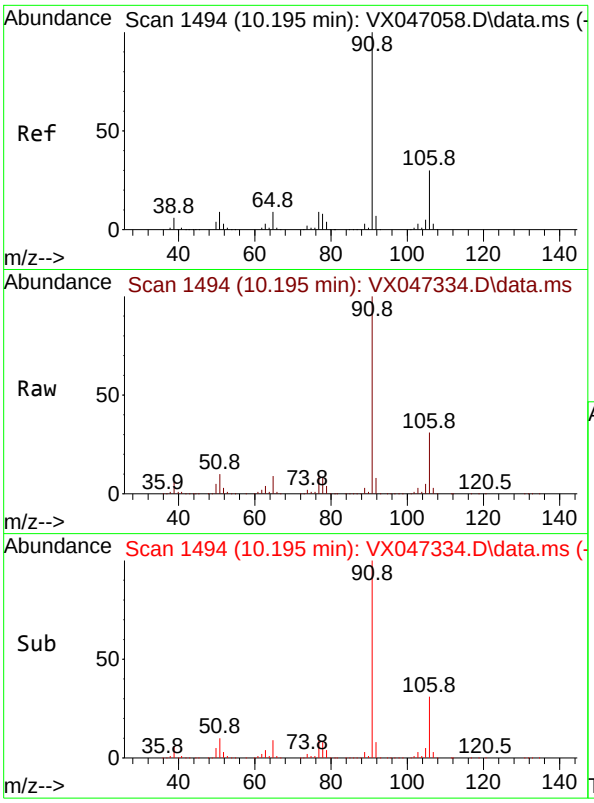


#66
1,1,1,2-Tetrachloroethane
Concen: 53.426 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:131 Resp: 138574

Ion	Ratio	Lower	Upper
131	100		
133	95.1	48.4	145.3
119	64.8	32.4	97.0





#67
Ethyl Benzene
Concen: 50.679 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 91 Resp: 68264

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.2	36.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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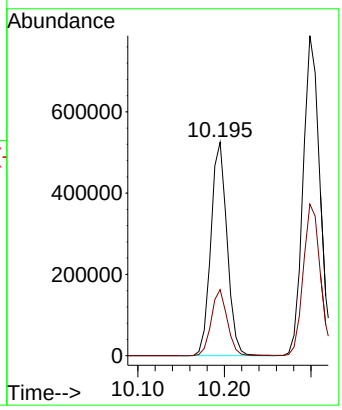
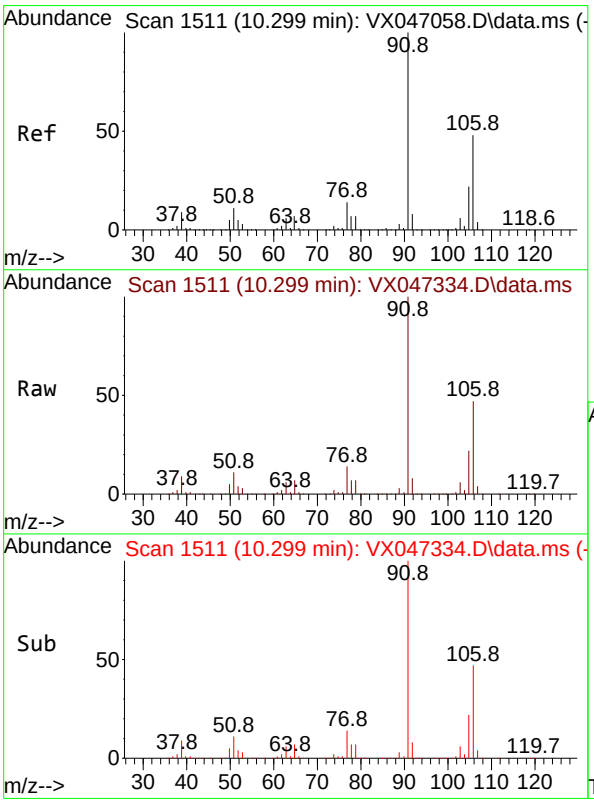
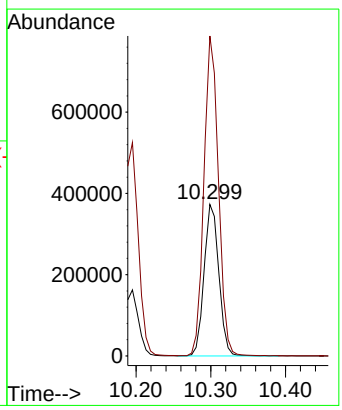


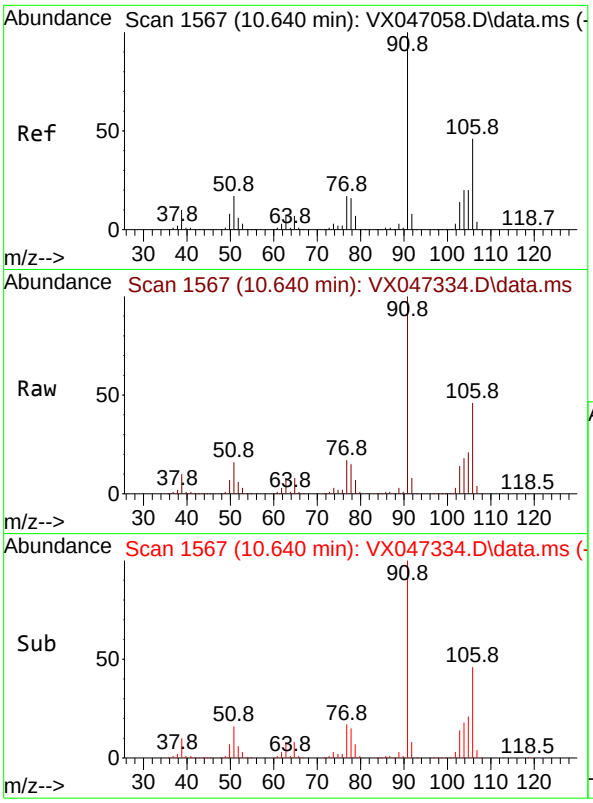


#68
m/p-Xylenes
Concen: 101.242 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:106 Resp: 510341

Ion	Ratio	Lower	Upper
106	100		
91	207.8	167.4	251.0

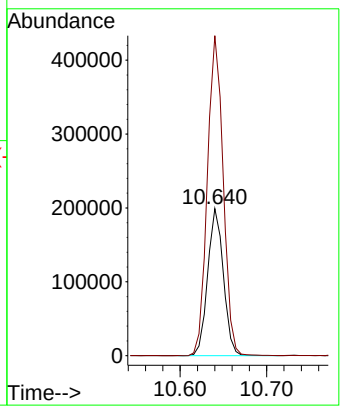




#69
o-Xylene
Concen: 52.266 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:106 Resp: 25063

Ion	Ratio	Lower	Upper
106	100		
91	219.8	110.3	331.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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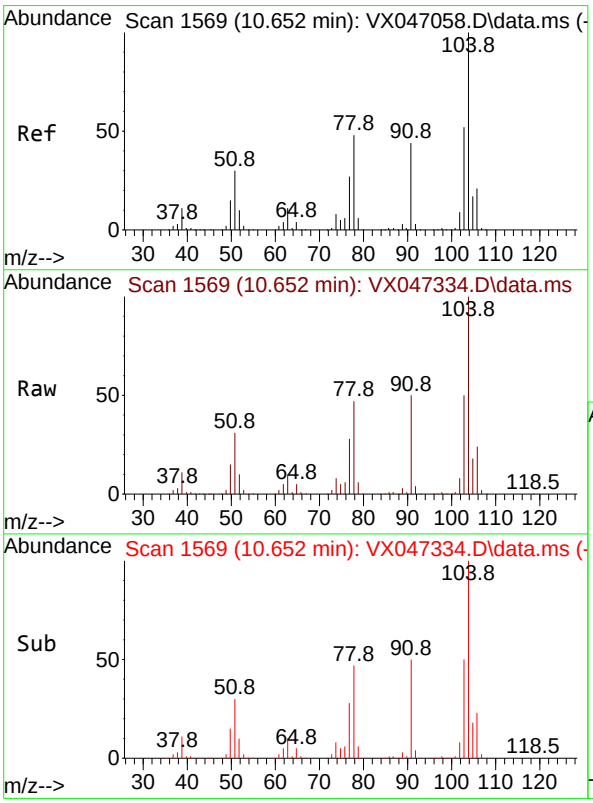
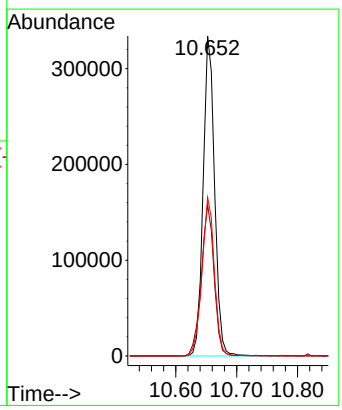
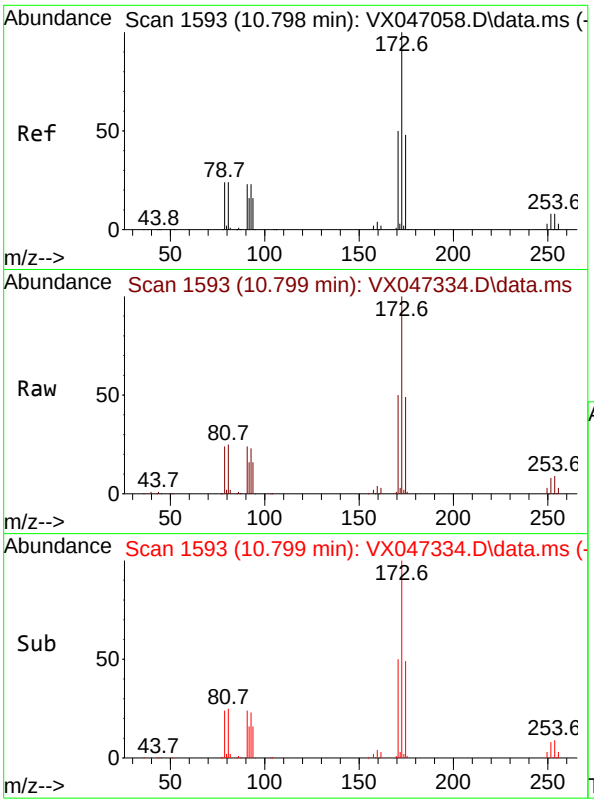


#70
Styrene
Concen: 53.262 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:104 Resp: 437969

Ion	Ratio	Lower	Upper
104	100		
78	52.3	42.0	63.0
103	53.9	43.8	65.6

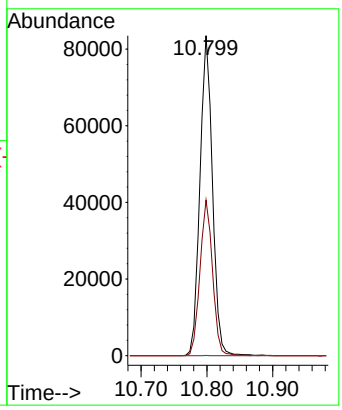




#71
Bromoform
Concen: 55.976 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:173 Resp: 11029

Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.2	72.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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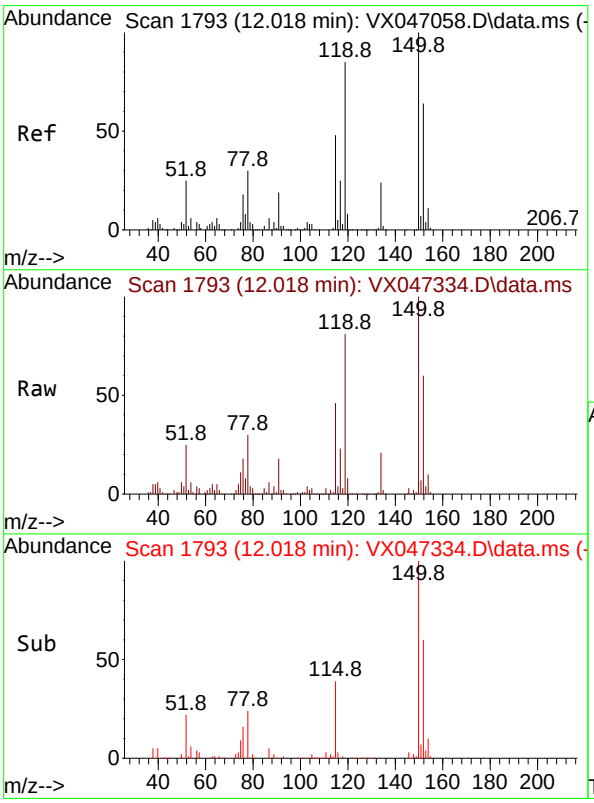
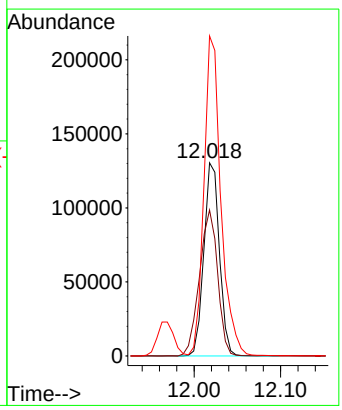
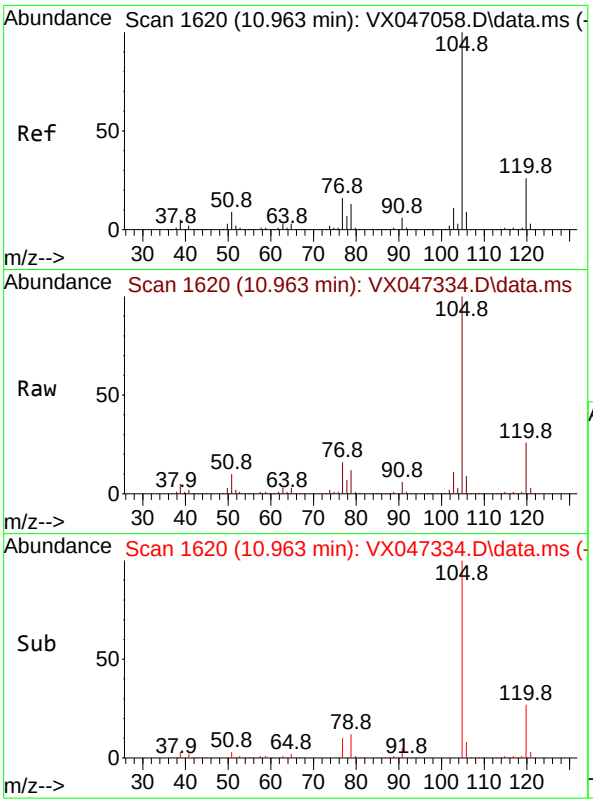


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:152 Resp: 162794

Ion	Ratio	Lower	Upper
152	100		
115	88.4	45.6	136.7
150	180.4	0.0	354.6

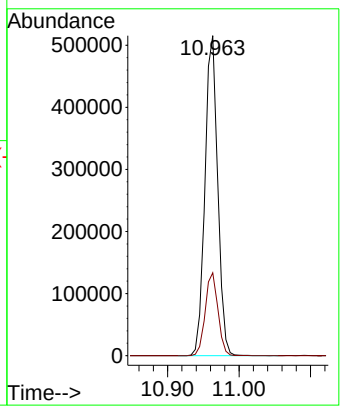




#73
Isopropylbenzene
Concen: 49.743 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:105 Resp: 63886

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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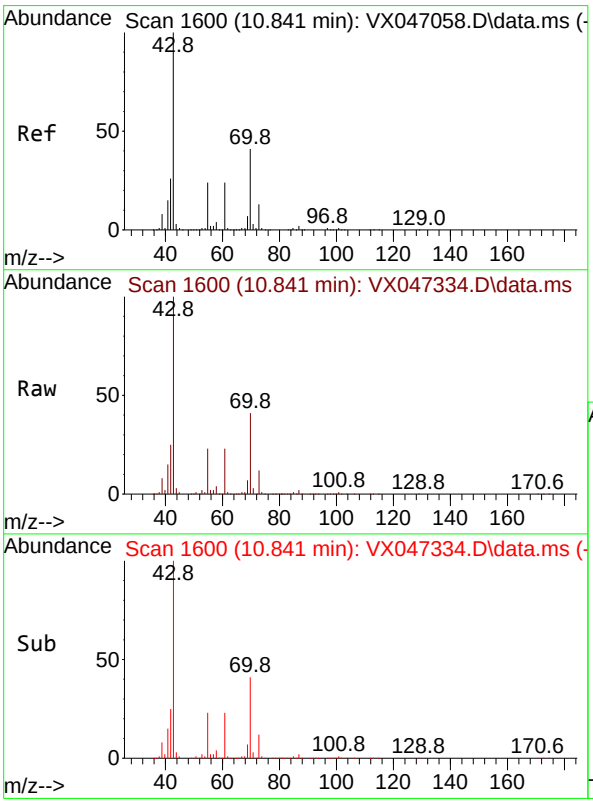
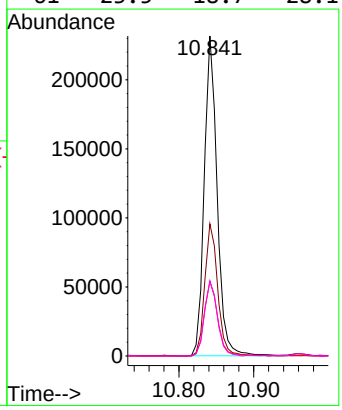
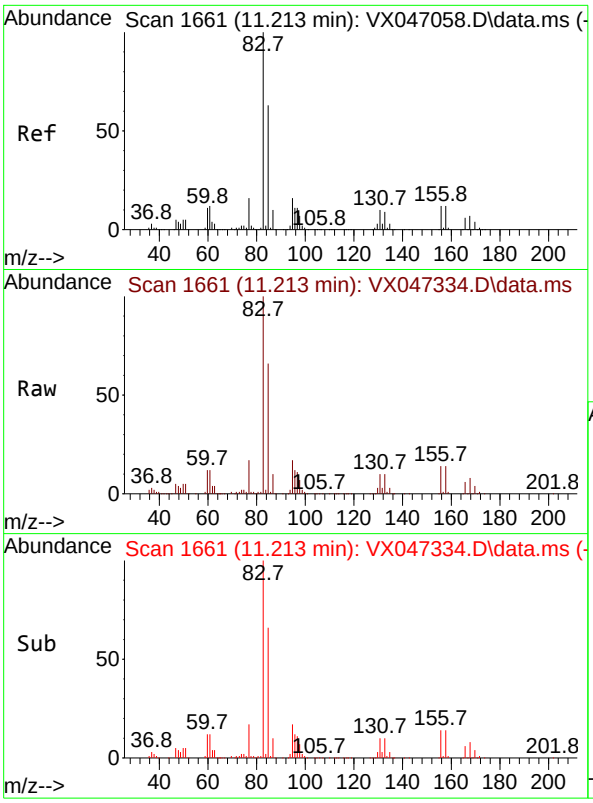


#74
N-amyl acetate
Concen: 53.447 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 43 Resp: 276966

Ion	Ratio	Lower	Upper
43	100		
70	41.9	32.3	48.5
55	24.4	18.9	28.3
61	23.5	18.7	28.1





#75
1,1,2,2-Tetrachloroethane
Concen: 55.852 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 83 Resp: 20490

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	64.5	32.0	96.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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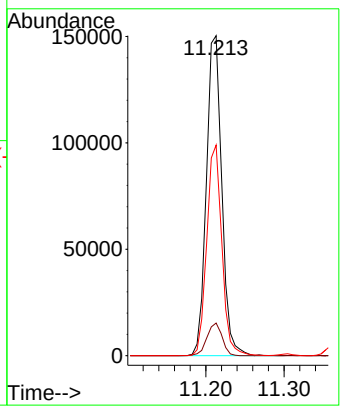
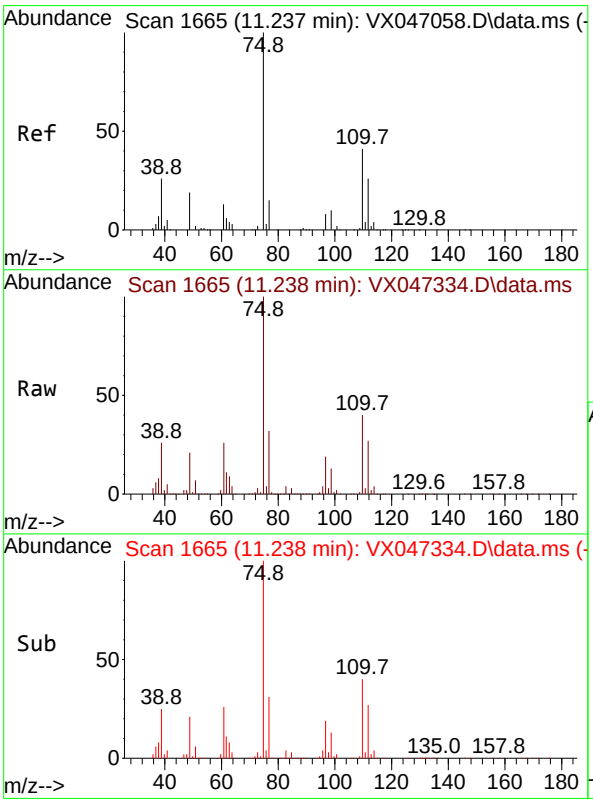
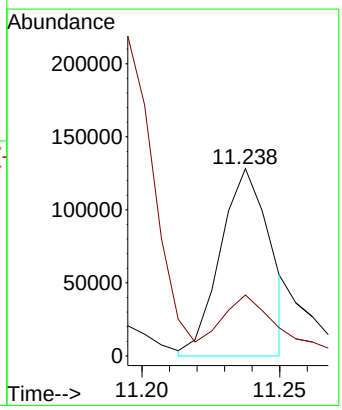


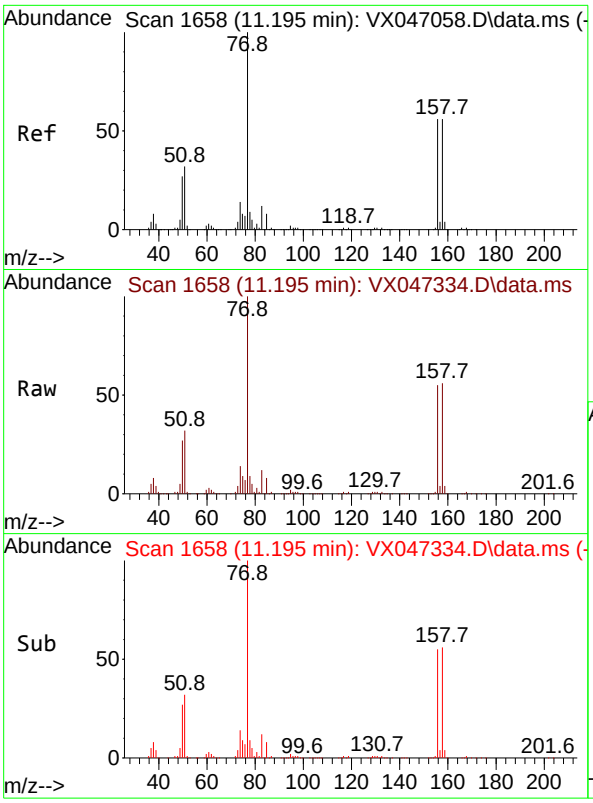


#76
1,2,3-Trichloropropane
Concen: 53.272 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 75 Resp: 160522

Ion	Ratio	Lower	Upper
75	100		
77	38.4	21.6	65.0

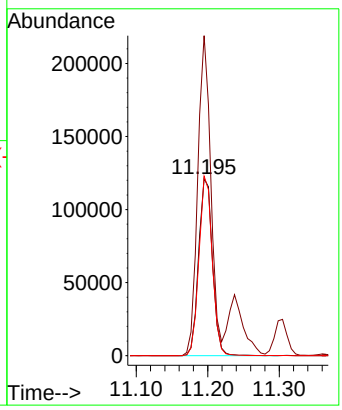




#77
Bromobenzene
Concen: 52.905 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:156 Resp: 16297

Ion	Ratio	Lower	Upper
156	100		
77	170.4	87.3	261.9
158	97.6	48.9	146.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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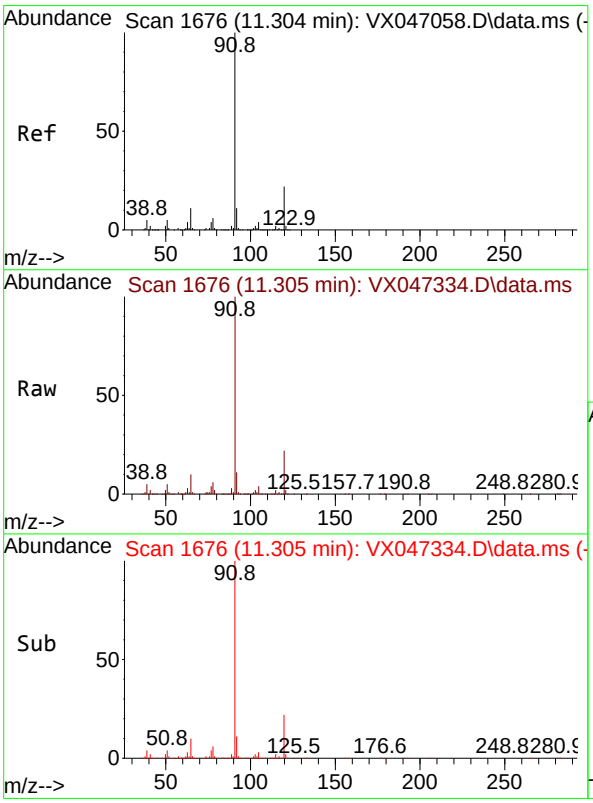
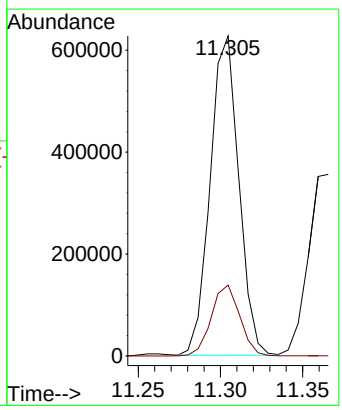
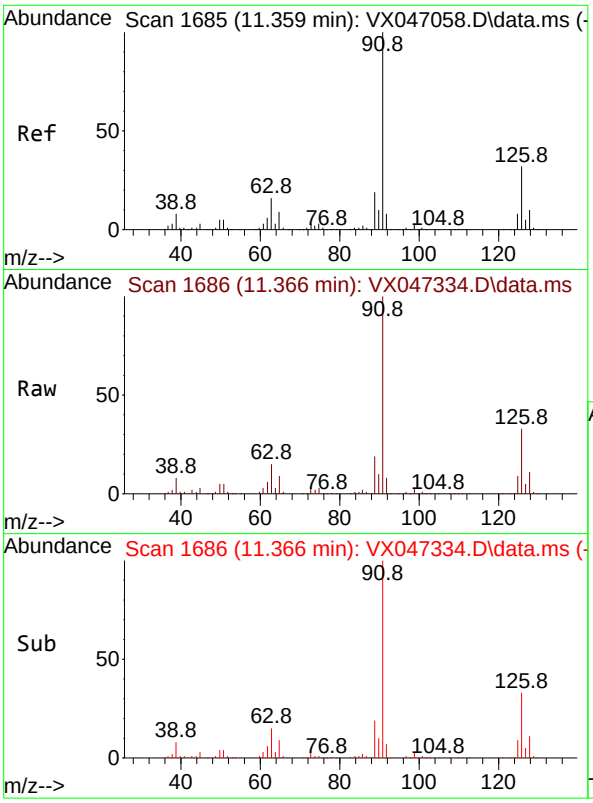


#78
n-propylbenzene
Concen: 49.480 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 91 Resp: 759407

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.0	33.0

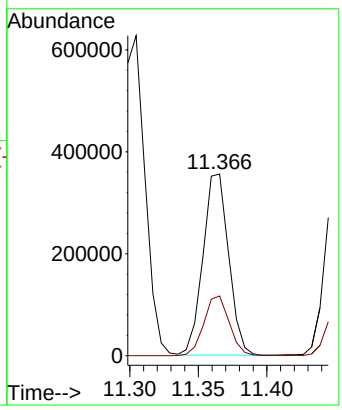




#79
2-Chlorotoluene
Concen: 50.591 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 91 Resp: 46414

Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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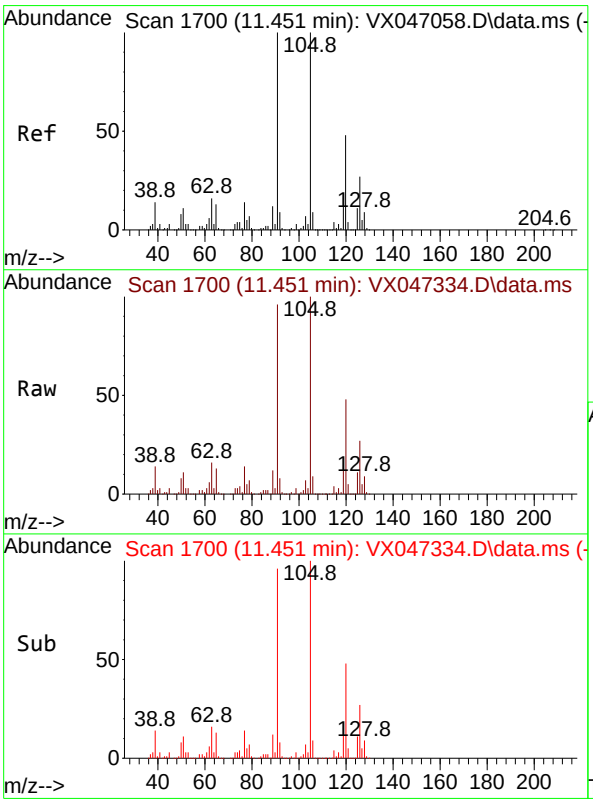
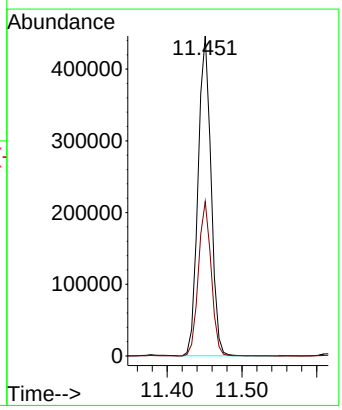
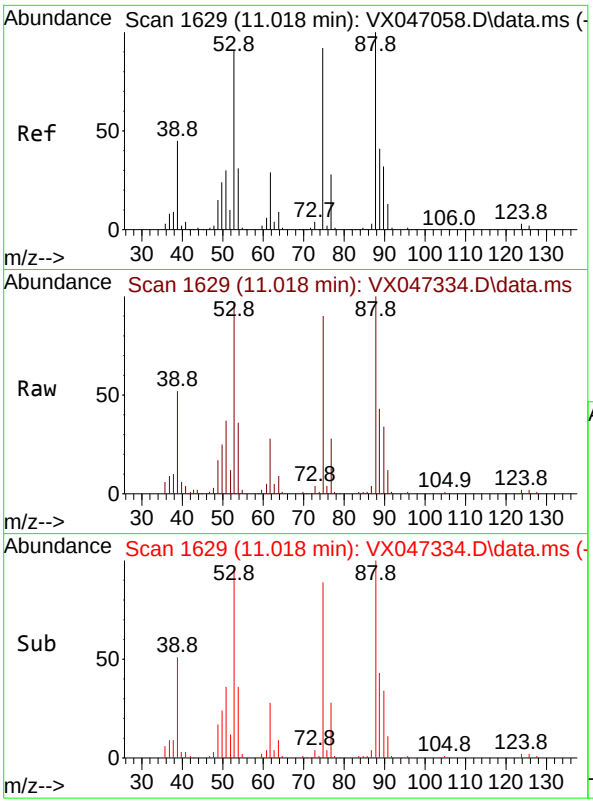


#80
1,3,5-Trimethylbenzene
Concen: 50.457 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:105 Resp: 535382

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.8	71.5





#81
trans-1,4-Dichloro-2-butene
Concen: 19.947 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 75 Resp: 2332

Ion	Ratio	Lower	Upper
75	100		
53	106.7	84.2	126.4
89	47.5	36.0	54.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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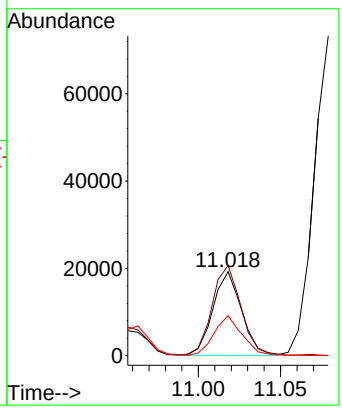
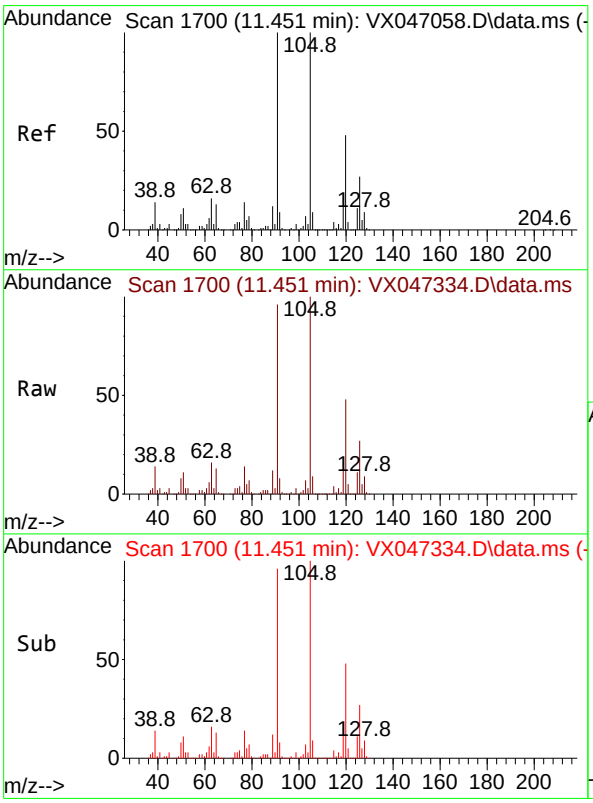
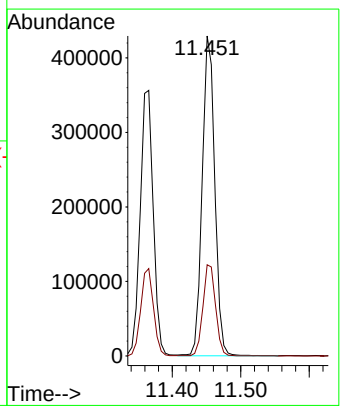


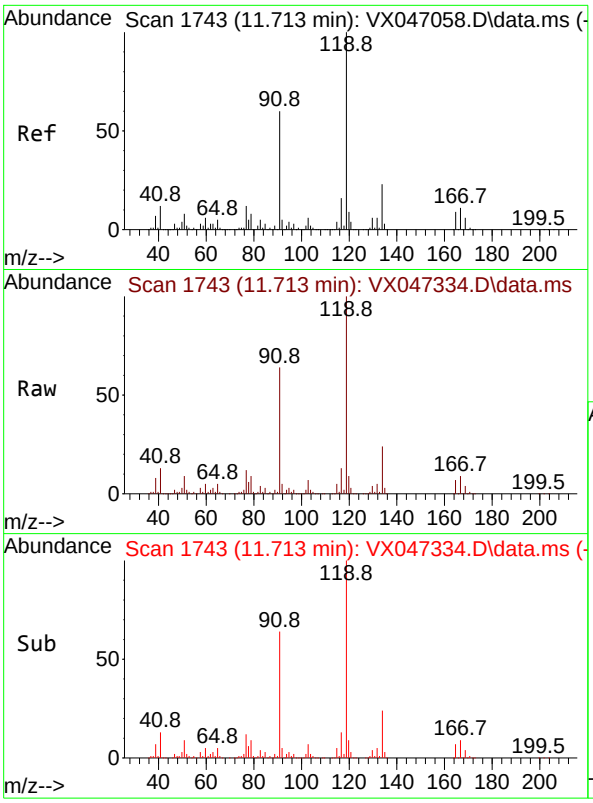


#82
4-Chlorotoluene
Concen: 51.133 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 91 Resp: 547556

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.1	42.3

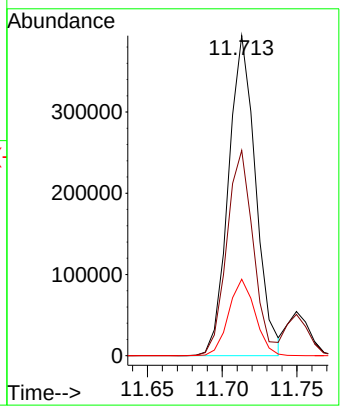




#83
tert-Butylbenzene
Concen: 46.723 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:119 Resp: 49759

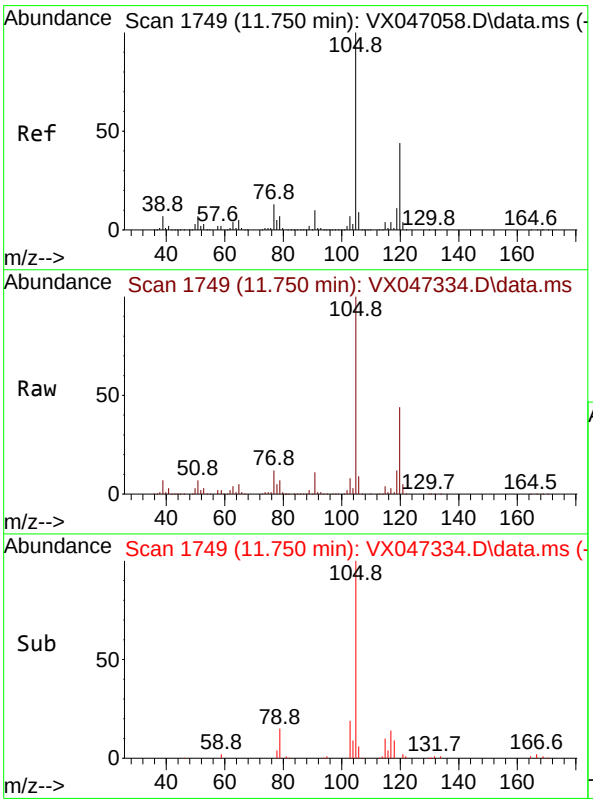
Ion	Ratio	Lower	Upper
119	100		
91	63.2	29.6	88.8
134	23.3	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

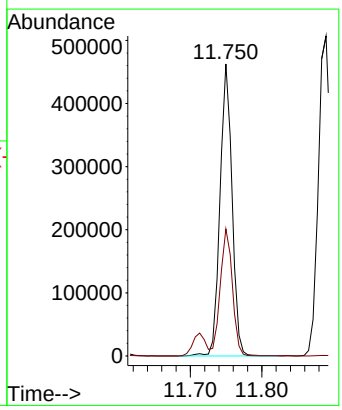
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

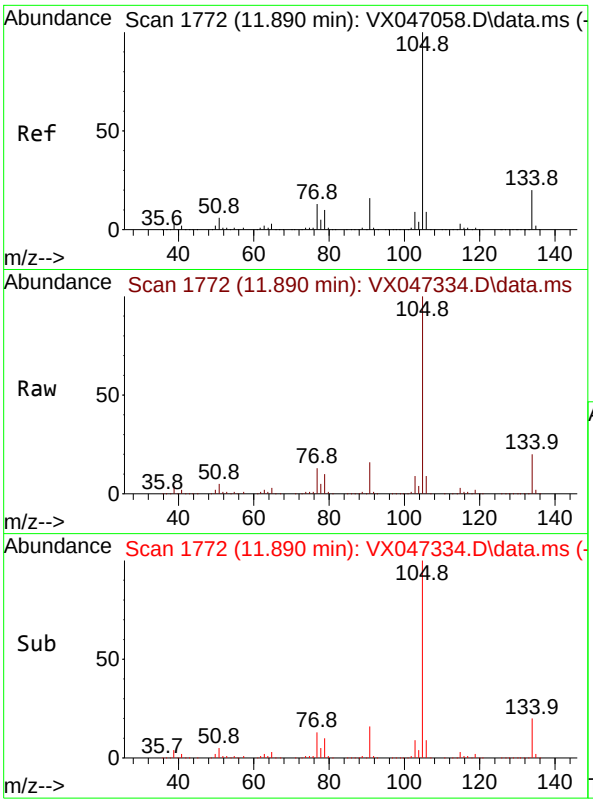


#84
1,2,4-Trimethylbenzene
Concen: 51.202 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:105 Resp: 541887

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.0	66.0

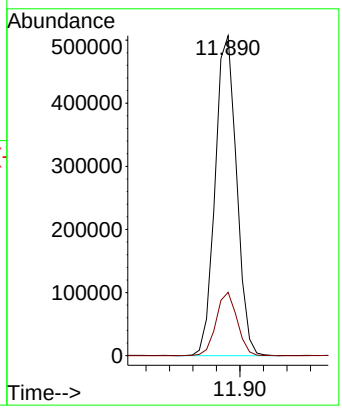




#85
sec-Butylbenzene
Concen: 48.296 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:105 Resp: 64265

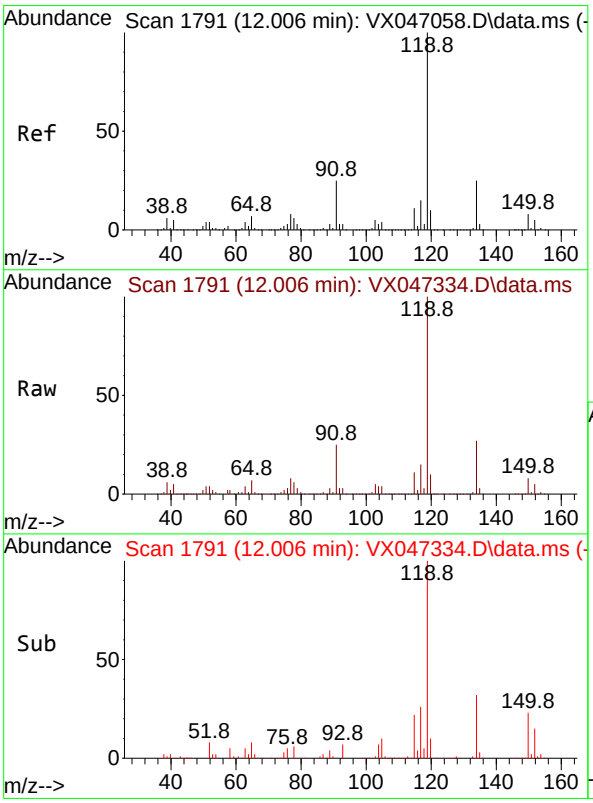
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

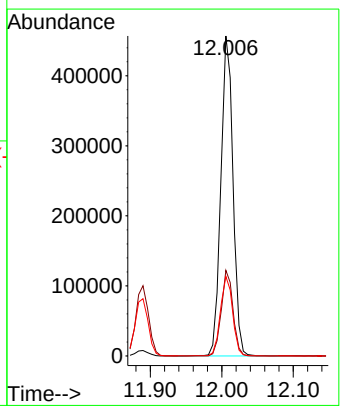
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

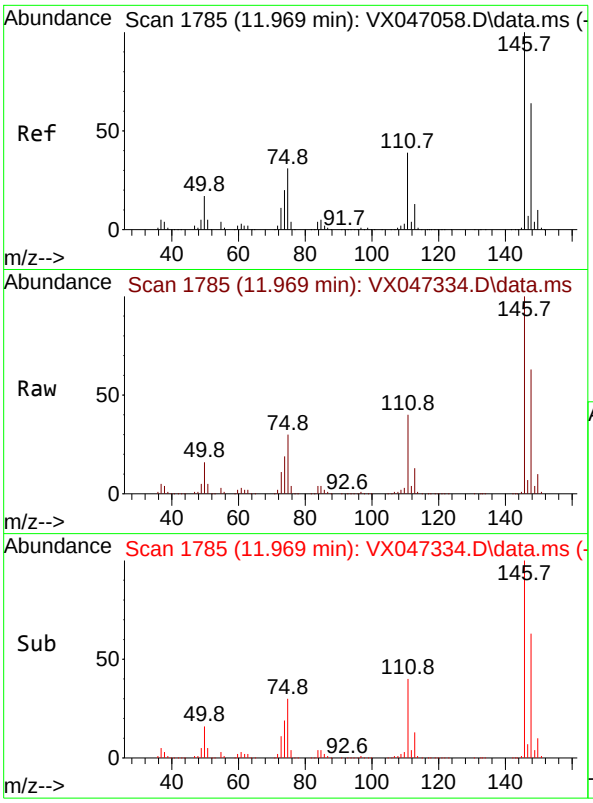


#86
p-Isopropyltoluene
Concen: 48.913 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:119 Resp: 539743

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.8	38.4
91	24.9	12.4	37.4

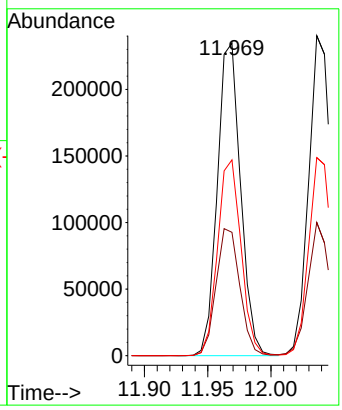




#87
1,3-Dichlorobenzene
Concen: 51.283 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:146 Resp: 30017

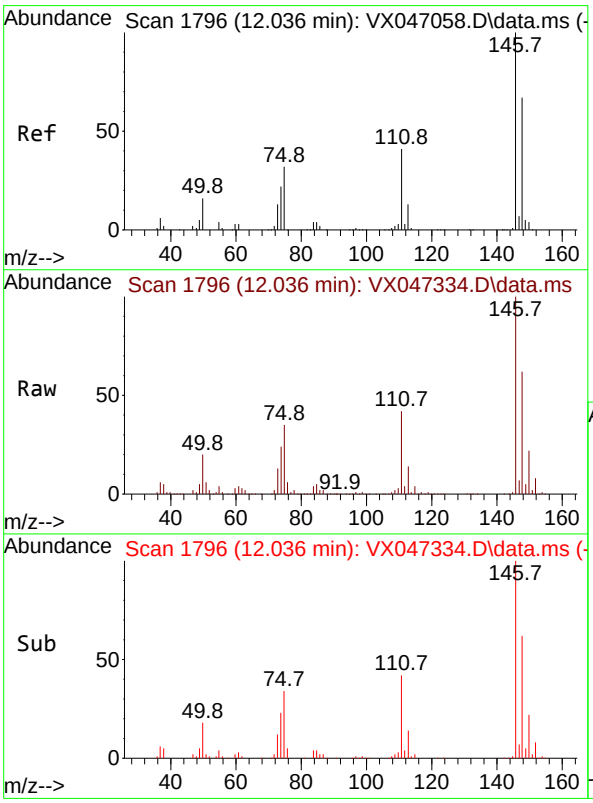
Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.0	63.0
148	63.2	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

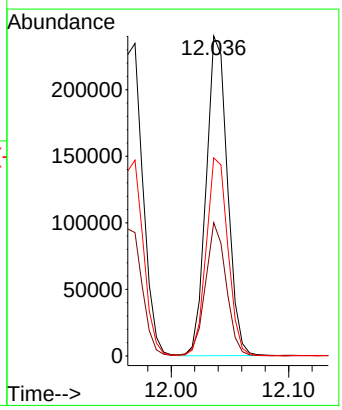
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

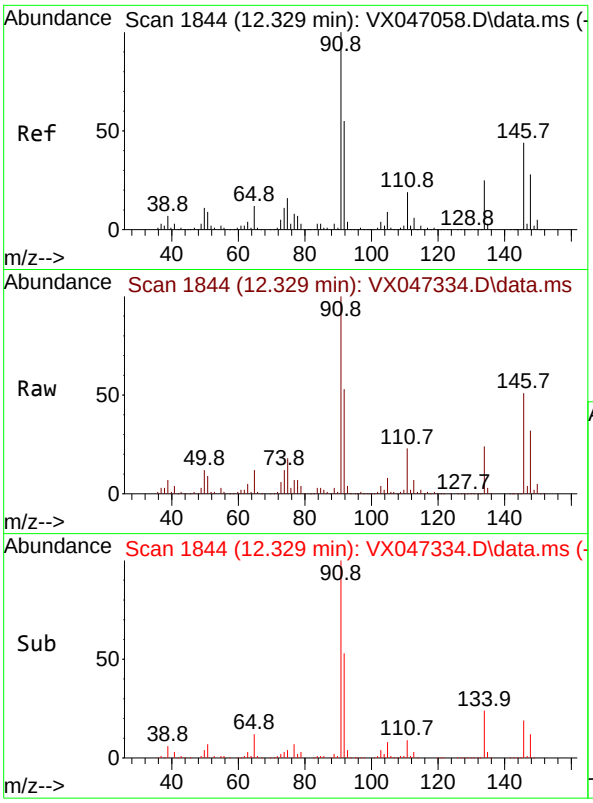


#88
1,4-Dichlorobenzene
Concen: 50.953 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:146 Resp: 302162

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.6	61.9
148	63.4	33.0	98.9

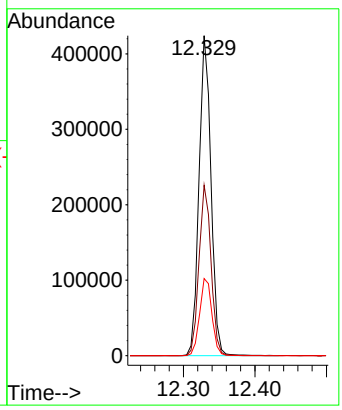




#89
n-Butylbenzene
Concen: 47.494 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 91 Resp: 49148

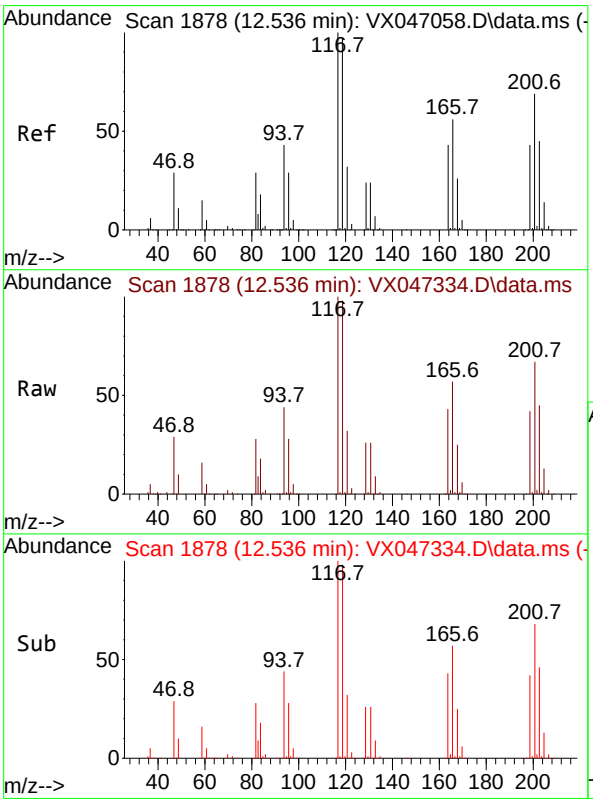
Ion	Ratio	Lower	Upper
91	100		
92	53.7	27.5	82.5
134	24.9	12.8	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

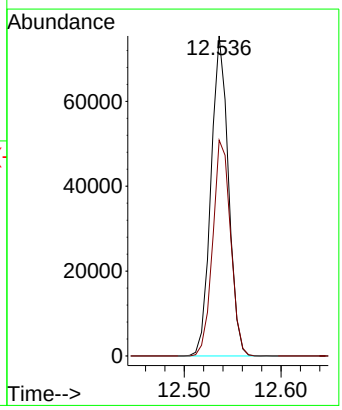
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

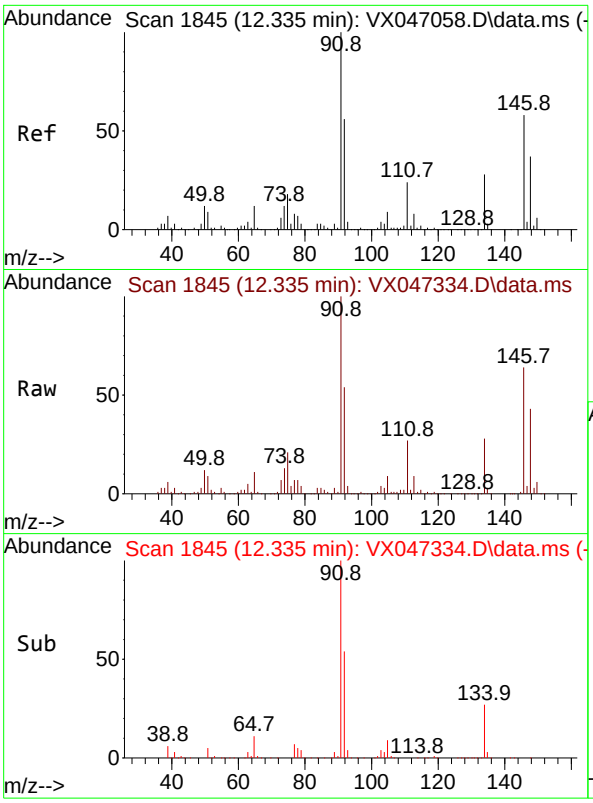


#90
Hexachloroethane
Concen: 47.815 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:117 Resp: 94390

Ion	Ratio	Lower	Upper
117	100		
201	69.0	34.8	104.5

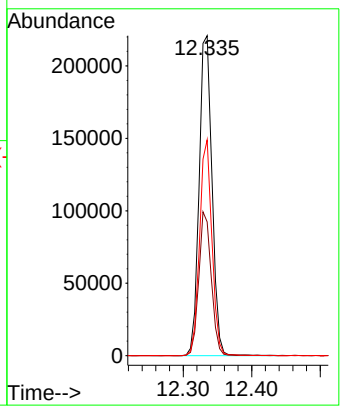




#91
1,2-Dichlorobenzene
Concen: 51.730 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:146 Resp: 28939

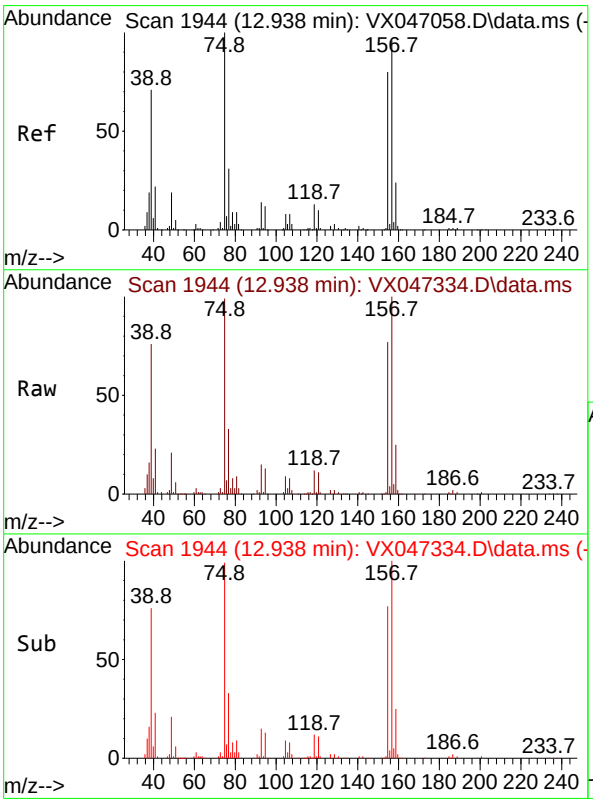
Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.6	64.6
148	64.6	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

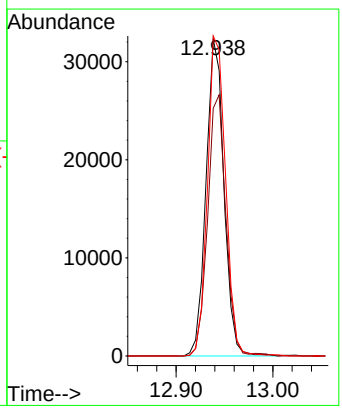
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

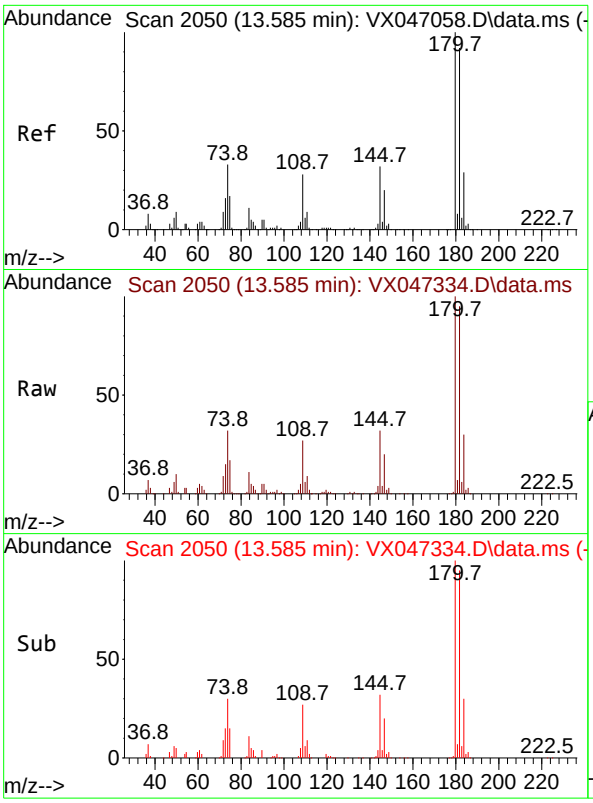


#92
1,2-Dibromo-3-Chloropropane
Concen: 59.218 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 75 Resp: 41702

Ion	Ratio	Lower	Upper
75	100		
155	84.0	41.3	124.1
157	101.9	52.8	158.3

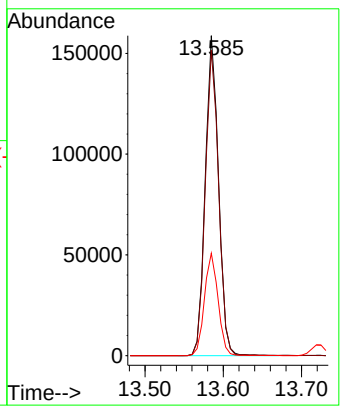




#93
1,2,4-Trichlorobenzene
Concen: 50.374 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:180 Resp: 18618

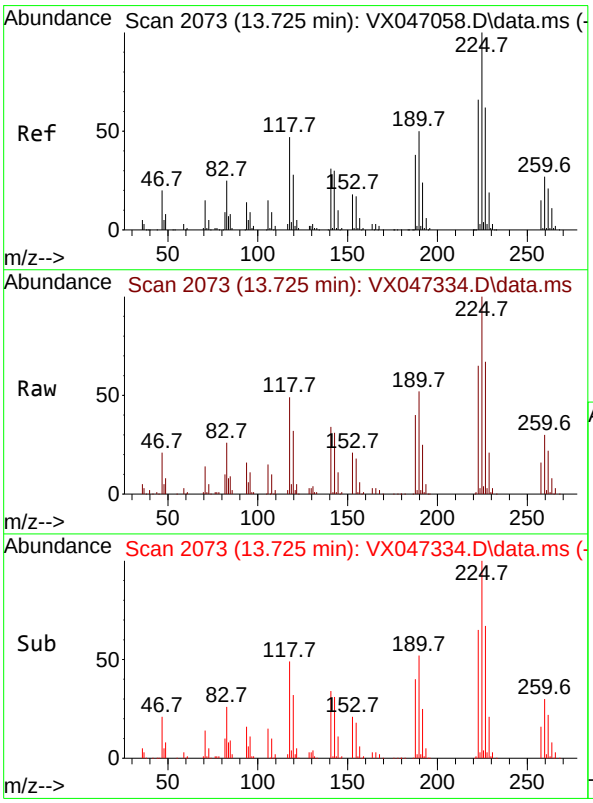
Ion	Ratio	Lower	Upper
180	100		
182	96.1	47.3	141.8
145	32.9	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

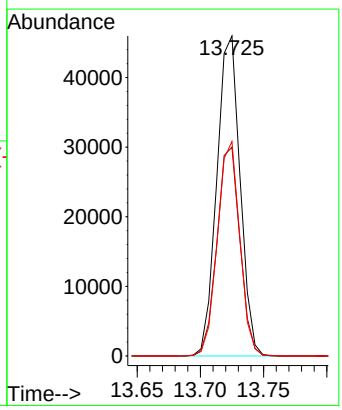
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

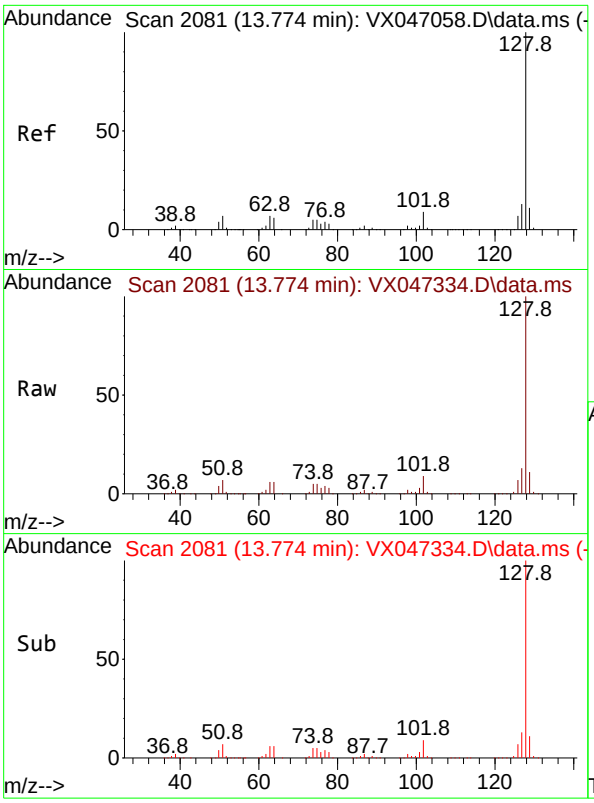


#94
Hexachlorobutadiene
Concen: 46.730 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:225 Resp: 58740

Ion	Ratio	Lower	Upper
225	100		
223	64.5	31.6	95.0
227	64.2	32.9	98.6

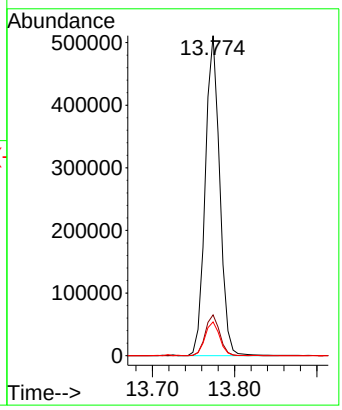




#95
Naphthalene
Concen: 57.649 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:128 Resp: 62465

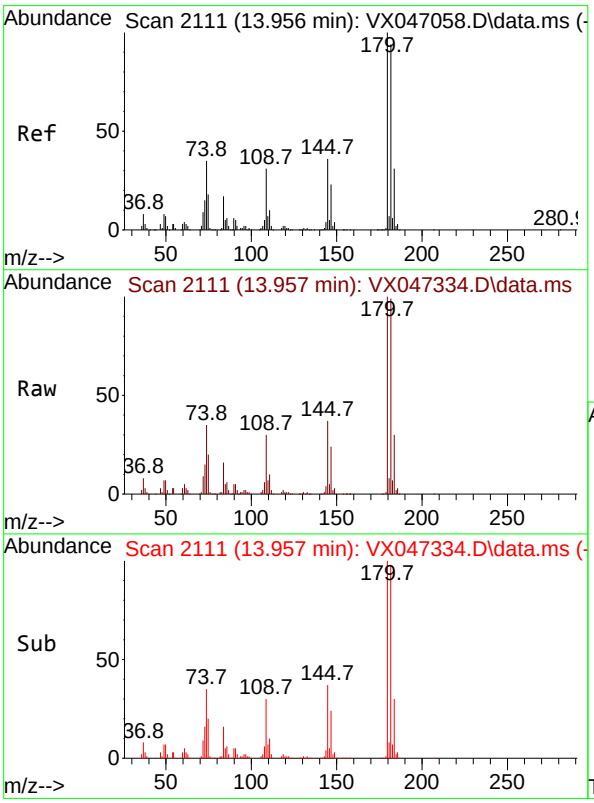
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	10.8	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

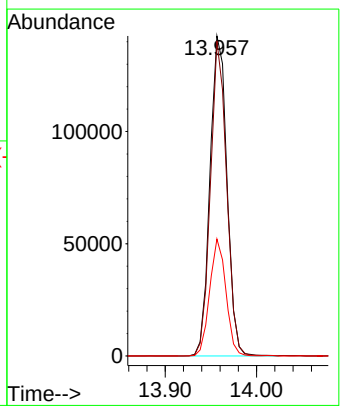
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.589 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:180 Resp: 183699

Ion	Ratio	Lower	Upper
180	100		
182	94.0	46.9	140.6
145	34.9	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 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	66	0.00
2	T	Dichlorodifluoromethane	0.664	0.657	1.1	57	0.00
3	P	Chloromethane	0.657	0.606	7.8	57	0.00
4	C	Vinyl Chloride	0.706	0.731	-3.5#	62	0.00
5	T	Bromomethane	0.384	0.291	24.2	43#	0.00
6	T	Chloroethane	0.464	0.448	3.4	63	0.00
7	T	Trichlorofluoromethane	1.053	1.047	0.6	60	0.00
8	T	Diethyl Ether	0.371	0.413	-11.3	70	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.634	0.604	4.7	59	0.00
10	T	Methyl Iodide	0.647	0.995	-53.8#	91	0.00
11	T	Tert butyl alcohol	0.080	0.086	-7.5	77	0.01
12	CM	1,1-Dichloroethene	0.628	0.637	-1.4#	63	0.00
13	T	Acrolein	0.134	0.128	4.5	61	0.00
14	T	Allyl chloride	1.136	1.107	2.6	59	0.00
15	T	Acrylonitrile	0.297	0.361	-21.5	73	0.00
16	T	Acetone	0.250	0.288	-15.2	76	0.00
17	T	Carbon Disulfide	1.818	1.741	4.2	60	0.00
18	T	Methyl Acetate	0.663	0.916	-38.2#	88	0.00
19	T	Methyl tert-butyl Ether	1.912	2.191	-14.6	71	0.00
20	T	Methylene Chloride	0.686	0.758	-10.5	70	0.00
21	T	trans-1,2-Dichloroethene	0.643	0.682	-6.1	65	0.00
22	T	Diisopropyl ether	2.184	2.427	-11.1	68	0.00
23	T	Vinyl Acetate	1.752	1.903	-8.6	65	0.00
24	P	1,1-Dichloroethane	1.214	1.312	-8.1	67	0.00
25	T	2-Butanone	0.363	0.417	-14.9	71	0.01
26	T	2,2-Dichloropropane	0.940	0.582	38.1#	39#	0.00
27	T	cis-1,2-Dichloroethene	0.761	0.834	-9.6	68	0.00
28	T	Bromochloromethane	0.559	0.638	-14.1	69	0.00
29	T	Tetrahydrofuran	0.234	0.276	-17.9	71	0.01
30	C	Chloroform	1.236	1.343	-8.7#	69	0.00
31	T	Cyclohexane	1.164	1.071	8.0	58	0.00
32	T	1,1,1-Trichloroethane	1.074	1.114	-3.7	66	0.00
33	S	1,2-Dichloroethane-d4	0.623	0.700	-12.4	81	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	70	0.00
35	S	Dibromofluoromethane	0.309	0.348	-12.6	82	0.00
36	T	1,1-Dichloropropene	0.526	0.503	4.4	65	0.00
37	T	Ethyl Acetate	0.485	0.598	-23.3	82	0.01
38	T	Carbon Tetrachloride	0.562	0.544	3.2	64	0.00
39	T	Methylcyclohexane	0.657	0.565	14.0	57	0.00
40	TM	Benzene	1.523	1.592	-4.5	68	0.00
41	T	Methacrylonitrile	0.254	0.272	-7.1	66	0.01
42	TM	1,2-Dichloroethane	0.536	0.584	-9.0	71	0.00
43	T	Isopropyl Acetate	0.756	0.889	-17.6	73	0.00
44	TM	Trichloroethene	0.391	0.397	-1.5	66	0.00
45	C	1,2-Dichloropropane	0.381	0.409	-7.3#	70	0.00
46	T	Dibromomethane	0.267	0.302	-13.1	72	0.00
47	T	Bromodichloromethane	0.569	0.612	-7.6	70	0.00
48	T	Methyl methacrylate	0.412	0.460	-11.7	73	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 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	0.005	0.005	0.0	69	0.02
50	S	Toluene-d8	1.000	0.968	3.2	73	0.00
51	T	4-Methyl-2-Pentanone	0.449	0.537	-19.6	76	0.00
52	CM	Toluene	0.936	0.991	-5.9#	68	0.00
53	T	t-1,3-Dichloropropene	0.538	0.525	2.4	62	0.00
54	T	cis-1,3-Dichloropropene	0.588	0.577	1.9	62	0.00
55	T	1,1,2-Trichloroethane	0.351	0.396	-12.8	74	0.00
56	T	Ethyl methacrylate	0.520	0.627	-20.6	74	0.00
57	T	1,3-Dichloropropane	0.610	0.667	-9.3	72	0.00
58	T	2-Chloroethyl Vinyl ether	0.289	0.287	0.7	62	0.00
59	T	2-Hexanone	0.297	0.377	-26.9#	77	0.00
60	T	Dibromochloromethane	0.412	0.461	-11.9	73	0.00
61	T	1,2-Dibromoethane	0.367	0.404	-10.1	72	0.00
62	S	4-Bromofluorobenzene	0.431	0.469	-8.8	80	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	71	0.00
64	T	Tetrachloroethene	0.360	0.440	-22.2	83	0.00
65	PM	Chlorobenzene	1.171	1.212	-3.5	70	0.00
66	T	1,1,1,2-Tetrachloroethane	0.394	0.421	-6.9	71	0.00
67	C	Ethyl Benzene	2.048	2.076	-1.4#	67	0.00
68	T	m/p-Xylenes	0.766	0.776	-1.3	67	0.00
69	T	o-Xylene	0.729	0.762	-4.5	69	0.00
70	T	Styrene	1.250	1.332	-6.6	69	0.00
71	P	Bromoform	0.300	0.335	-11.7	73	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	73	0.00
73	T	Isopropylbenzene	3.945	3.924	0.5	66	0.00
74	T	N-amyl acetate	1.592	1.701	-6.8	69	0.00
75	P	1,1,2,2-Tetrachloroethane	1.127	1.259	-11.7	76	0.00
76	T	1,2,3-Trichloropropane	0.925	0.986	-6.6	72	0.00
77	T	Bromobenzene	0.946	1.001	-5.8	72	0.00
78	T	n-propylbenzene	4.714	4.665	1.0	66	0.00
79	T	2-Chlorotoluene	2.818	2.851	-1.2	68	0.00
80	T	1,3,5-Trimethylbenzene	3.259	3.289	-0.9	68	0.00
81	T	trans-1,4-Dichloro-2-butene	0.359	0.143	60.2#	27#	0.00
82	T	4-Chlorotoluene	3.289	3.363	-2.2	69	0.00
83	T	tert-Butylbenzene	3.271	3.057	6.5	62	0.00
84	T	1,2,4-Trimethylbenzene	3.251	3.329	-2.4	68	0.00
85	T	sec-Butylbenzene	4.087	3.948	3.4	65	0.00
86	T	p-Isopropyltoluene	3.389	3.315	2.2	65	0.00
87	T	1,3-Dichlorobenzene	1.798	1.844	-2.6	70	0.00
88	T	1,4-Dichlorobenzene	1.821	1.856	-1.9	71	0.00
89	T	n-Butylbenzene	3.178	3.019	5.0	64	0.00
90	T	Hexachloroethane	0.606	0.580	4.3	64	0.00
91	T	1,2-Dichlorobenzene	1.718	1.778	-3.5	71	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.216	0.256	-18.5	78	0.00
93	T	1,2,4-Trichlorobenzene	1.135	1.144	-0.8	68	0.00
94	T	Hexachlorobutadiene	0.386	0.361	6.5	65	0.00
95	T	Naphthalene	3.328	3.837	-15.3	74	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 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	1.094	1.128	-3.1	70	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 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	66	0.00
2	T	Dichlorodifluoromethane	50.000	49.434	1.1	57	0.00
3	P	Chloromethane	50.000	46.133	7.7	57	0.00
4	C	Vinyl Chloride	50.000	51.777	-3.6#	62	0.00
5	T	Bromomethane	50.000	37.927	24.1	43	0.00
6	T	Chloroethane	50.000	48.258	3.5	63	0.00
7	T	Trichlorofluoromethane	50.000	49.717	0.6	60	0.00
8	T	Diethyl Ether	50.000	55.556	-11.1	70	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.574	4.9	59	0.00
10	T	Methyl Iodide	50.000	76.942	-53.9#	91	0.00
11	T	Tert butyl alcohol	250.000	296.193	-18.5	77	0.01
12	CM	1,1-Dichloroethene	50.000	50.675	-1.3#	63	0.00
13	T	Acrolein	250.000	238.735	4.5	61	0.00
14	T	Allyl chloride	50.000	48.725	2.5	59	0.00
15	T	Acrylonitrile	250.000	304.062	-21.6	73	0.00
16	T	Acetone	250.000	288.492	-15.4	76	0.00
17	T	Carbon Disulfide	50.000	47.874	4.3	60	0.00
18	T	Methyl Acetate	50.000	69.057	-38.1#	88	0.00
19	T	Methyl tert-butyl Ether	50.000	57.288	-14.6	71	0.00
20	T	Methylene Chloride	50.000	55.207	-10.4	70	0.00
21	T	trans-1,2-Dichloroethene	50.000	53.013	-6.0	65	0.00
22	T	Diisopropyl ether	50.000	55.568	-11.1	68	0.00
23	T	Vinyl Acetate	250.000	271.550	-8.6	65	0.00
24	P	1,1-Dichloroethane	50.000	54.022	-8.0	67	0.00
25	T	2-Butanone	250.000	286.642	-14.7	71	0.01
26	T	2,2-Dichloropropane	50.000	30.943	38.1#	39	0.00
27	T	cis-1,2-Dichloroethene	50.000	54.770	-9.5	68	0.00
28	T	Bromochloromethane	50.000	57.062	-14.1	69	0.00
29	T	Tetrahydrofuran	250.000	293.999	-17.6	71	0.01
30	C	Chloroform	50.000	54.310	-8.6#	69	0.00
31	T	Cyclohexane	50.000	45.987	8.0	58	0.00
32	T	1,1,1-Trichloroethane	50.000	51.894	-3.8	66	0.00
33	S	1,2-Dichloroethane-d4	50.000	56.170	-12.3	81	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	70	0.00
35	S	Dibromofluoromethane	50.000	56.338	-12.7	82	0.00
36	T	1,1-Dichloropropene	50.000	47.746	4.5	65	0.00
37	T	Ethyl Acetate	50.000	61.671	-23.3	82	0.01
38	T	Carbon Tetrachloride	50.000	48.436	3.1	64	0.00
39	T	Methylcyclohexane	50.000	42.990	14.0	57	0.00
40	TM	Benzene	50.000	52.258	-4.5	68	0.00
41	T	Methacrylonitrile	50.000	53.704	-7.4	66	0.01
42	TM	1,2-Dichloroethane	50.000	54.449	-8.9	71	0.00
43	T	Isopropyl Acetate	50.000	58.771	-17.5	73	0.00
44	TM	Trichloroethene	50.000	50.839	-1.7	66	0.00
45	C	1,2-Dichloropropane	50.000	53.617	-7.2#	70	0.00
46	T	Dibromomethane	50.000	56.394	-12.8	72	0.00
47	T	Bromodichloromethane	50.000	53.726	-7.5	70	0.00
48	T	Methyl methacrylate	50.000	55.869	-11.7	73	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 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	1096.675	-9.7	69	0.02
50	S	Toluene-d8	50.000	48.401	3.2	73	0.00
51	T	4-Methyl-2-Pentanone	250.000	298.510	-19.4	76	0.00
52	CM	Toluene	50.000	52.894	-5.8#	68	0.00
53	T	t-1,3-Dichloropropene	50.000	48.781	2.4	62	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.007	2.0	62	0.00
55	T	1,1,2-Trichloroethane	50.000	56.437	-12.9	74	0.00
56	T	Ethyl methacrylate	50.000	60.258	-20.5	74	0.00
57	T	1,3-Dichloropropane	50.000	54.612	-9.2	72	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	248.283	0.7	62	0.00
59	T	2-Hexanone	250.000	317.134	-26.9#	77	0.00
60	T	Dibromochloromethane	50.000	55.953	-11.9	73	0.00
61	T	1,2-Dibromoethane	50.000	54.984	-10.0	72	0.00
62	S	4-Bromofluorobenzene	50.000	54.458	-8.9	80	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	71	0.00
64	T	Tetrachloroethene	50.000	61.091	-22.2	83	0.00
65	PM	Chlorobenzene	50.000	51.735	-3.5	70	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	53.426	-6.9	71	0.00
67	C	Ethyl Benzene	50.000	50.679	-1.4#	67	0.00
68	T	m/p-Xylenes	100.000	101.242	-1.2	67	0.00
69	T	o-Xylene	50.000	52.266	-4.5	69	0.00
70	T	Styrene	50.000	53.262	-6.5	69	0.00
71	P	Bromoform	50.000	55.976	-12.0	73	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	73	0.00
73	T	Isopropylbenzene	50.000	49.743	0.5	66	0.00
74	T	N-amyl acetate	50.000	53.447	-6.9	69	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	55.852	-11.7	76	0.00
76	T	1,2,3-Trichloropropane	50.000	53.272	-6.5	72	0.00
77	T	Bromobenzene	50.000	52.905	-5.8	72	0.00
78	T	n-propylbenzene	50.000	49.480	1.0	66	0.00
79	T	2-Chlorotoluene	50.000	50.591	-1.2	68	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.457	-0.9	68	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	19.947	60.1#	27	0.00
82	T	4-Chlorotoluene	50.000	51.133	-2.3	69	0.00
83	T	tert-Butylbenzene	50.000	46.723	6.6	62	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.202	-2.4	68	0.00
85	T	sec-Butylbenzene	50.000	48.296	3.4	65	0.00
86	T	p-Isopropyltoluene	50.000	48.913	2.2	65	0.00
87	T	1,3-Dichlorobenzene	50.000	51.283	-2.6	70	0.00
88	T	1,4-Dichlorobenzene	50.000	50.953	-1.9	71	0.00
89	T	n-Butylbenzene	50.000	47.494	5.0	64	0.00
90	T	Hexachloroethane	50.000	47.815	4.4	64	0.00
91	T	1,2-Dichlorobenzene	50.000	51.730	-3.5	71	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	59.218	-18.4	78	0.00
93	T	1,2,4-Trichlorobenzene	50.000	50.374	-0.7	68	0.00
94	T	Hexachlorobutadiene	50.000	46.730	6.5	65	0.00
95	T	Naphthalene	50.000	57.649	-15.3	74	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 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	51.589	-3.2	70	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:	FIRS02
Lab Code:	ACE	SDG No.:	Q2815
Instrument ID:	MSVOA_X	Calibration Date/Time:	08/18/2025 10:00
Lab File ID:	VX047371.D	Init. Calib. Date(s):	08/15/2025 08/15/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:40 12:30

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.637	0.681		6.91	20
Chloromethane	0.573	0.638	0.1	11.34	20
Vinyl Chloride	0.720	0.719		-0.14	20
Bromomethane	0.291	0.248		-14.78	20
Chloroethane	0.440	0.451		2.5	20
Trichlorofluoromethane	1.065	1.060		-0.47	20
1,1,2-Trichlorotrifluoroethane	0.618	0.631		2.1	20
1,1-Dichloroethene	0.630	0.616		-2.22	20
Acetone	0.263	0.254		-3.42	20
Carbon Disulfide	1.900	1.913		0.68	20
Methyl tert-butyl Ether	1.915	1.840		-3.92	20
Methyl Acetate	0.682	0.672		-1.47	20
Methylene Chloride	0.697	0.657		-5.74	20
trans-1,2-Dichloroethene	0.668	0.633		-5.24	20
1,1-Dichloroethane	1.222	1.177	0.1	-3.68	20
Cyclohexane	1.126	1.041		-7.55	20
2-Butanone	0.344	0.330		-4.07	20
Carbon Tetrachloride	0.560	0.548		-2.14	20
cis-1,2-Dichloroethene	0.778	0.726		-6.68	20
Bromochloromethane	0.508	0.536		5.51	20
Chloroform	1.247	1.170		-6.18	20
1,1,1-Trichloroethane	1.073	1.024		-4.57	20
Methylcyclohexane	0.639	0.604		-5.48	20
Benzene	1.533	1.469		-4.18	20
1,2-Dichloroethane	0.543	0.515		-5.16	20
Trichloroethene	0.393	0.366		-6.87	20
1,2-Dichloropropane	0.384	0.368		-4.17	20
Bromodichloromethane	0.578	0.557		-3.63	20
4-Methyl-2-Pentanone	0.440	0.428		-2.73	20
Toluene	0.947	0.900		-4.96	20
t-1,3-Dichloropropene	0.505	0.497		-1.58	20
cis-1,3-Dichloropropene	0.571	0.550		-3.68	20
1,1,2-Trichloroethane	0.360	0.340		-5.56	20
2-Hexanone	0.304	0.290		-4.61	20
Dibromochloromethane	0.428	0.406		-5.14	20
1,2-Dibromoethane	0.371	0.344		-7.28	20
Tetrachloroethene	0.362	0.349		-3.59	20
Chlorobenzene	1.188	1.129	0.3	-4.97	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: FIRS02
Lab Code: ACE
SDG No.: Q2815
Instrument ID: MSVOA_X
Calibration Date/Time: 08/18/2025 10:00
Lab File ID: VX047371.D
Init. Calib. Date(s): 08/15/2025 08/15/2025
Heated Purge: (Y/N) N
Init. Calib. Time(s): 09:40 12:30
GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.045	1.968		-3.77	20
m/p-Xylenes	0.763	0.735		-3.67	20
o-Xylene	0.734	0.708		-3.54	20
Styrene	1.240	1.227		-1.05	20
Bromoform	0.302	0.297	0.1	-1.66	20
Isopropylbenzene	3.913	3.805		-2.76	20
1,1,2,2-Tetrachloroethane	1.149	1.100	0.3	-4.26	20
1,3-Dichlorobenzene	1.825	1.709		-6.36	20
1,4-Dichlorobenzene	1.877	1.719		-8.42	20
1,2-Dichlorobenzene	1.733	1.636		-5.6	20
1,2-Dibromo-3-Chloropropane	0.222	0.210		-5.41	20
1,2,4-Trichlorobenzene	1.161	1.067		-8.1	20
1,2,3-Trichlorobenzene	1.095	1.029		-6.03	20
1,2-Dichloroethane-d4	0.700	0.690		-1.43	20
Dibromofluoromethane	0.325	0.336		3.38	20
Toluene-d8	1.160	1.149		-0.95	20
4-Bromofluorobenzene	0.428	0.424		-0.94	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\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	269622	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	444434	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	389564	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	190181	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	186066	49.309	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.620%			
35) Dibromofluoromethane	5.397	113	149242	51.741	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.480%			
50) Toluene-d8	8.647	98	510697	49.536	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.080%			
62) 4-Bromofluorobenzene	11.079	95	188302	49.495	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	183604	53.419	ug/l	99
3) Chloromethane	1.307	50	172140	55.674	ug/l	98
4) Vinyl Chloride	1.392	62	193962	49.979	ug/l	89
5) Bromomethane	1.624	94	66879	42.665	ug/l	94
6) Chloroethane	1.703	64	121687	51.248	ug/l	92
7) Trichlorofluoromethane	1.904	101	285927	49.809	ug/l	99
8) Diethyl Ether	2.148	74	98695	48.828	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.349	101	170115	51.087	ug/l	98
10) Methyl Iodide	2.471	142	230213	40.343	ug/l	97
11) Tert butyl alcohol	2.959	59	79871	243.310	ug/l	99
12) 1,1-Dichloroethene	2.337	96	166109	48.931	ug/l	100
13) Acrolein	2.245	56	97377	140.523	ug/l	100
14) Allyl chloride	2.678	41	273602	46.403	ug/l	97
15) Acrylonitrile	3.081	53	391108	246.561	ug/l	100
16) Acetone	2.392	43	342152	241.230	ug/l	98
17) Carbon Disulfide	2.526	76	515723	50.344	ug/l	99
18) Methyl Acetate	2.715	43	181273	49.319	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	496038	48.031	ug/l	99
20) Methylene Chloride	2.800	84	177230	47.188	ug/l	99
21) trans-1,2-Dichloroethene	3.105	96	170589	47.345	ug/l	98
22) Diisopropyl ether	3.769	45	566100	48.571	ug/l	96
23) Vinyl Acetate	3.733	43	2308563	241.659	ug/l	100
24) 1,1-Dichloroethane	3.623	63	317338	48.171	ug/l	98
25) 2-Butanone	4.562	43	445204	239.666	ug/l	99
26) 2,2-Dichloropropane	4.489	77	233509	46.963	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	195846	46.668	ug/l	99
28) Bromochloromethane	4.903	49	144569	52.737	ug/l	98
29) Tetrahydrofuran	5.019	42	275691	229.620	ug/l	99
30) Chloroform	5.099	83	315459	46.921	ug/l	96
31) Cyclohexane	5.477	56	280615	46.209	ug/l	95
32) 1,1,1-Trichloroethane	5.391	97	276215	47.731	ug/l	99
36) 1,1-Dichloropropene	5.702	75	216239	47.491	ug/l	98
37) Ethyl Acetate	4.714	43	232054	49.091	ug/l	98
38) Carbon Tetrachloride	5.684	117	243389	48.915	ug/l	98
39) Methylcyclohexane	7.385	83	268330	47.245	ug/l	95
40) Benzene	6.043	78	653043	47.917	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	95846	48.083	ug/l		96
42) 1,2-Dichloroethane	6.092	62	228939	47.424	ug/l		99
43) Isopropyl Acetate	6.342	43	323127	47.583	ug/l		100
44) Trichloroethene	7.129	130	162678	46.616	ug/l		100
45) 1,2-Dichloropropane	7.433	63	163590	47.913	ug/l		99
46) Dibromomethane	7.580	93	117704	47.485	ug/l		99
47) Bromodichloromethane	7.824	83	247713	48.205	ug/l		99
48) Methyl methacrylate	7.696	41	166270	47.171	ug/l		99
49) 1,4-Dioxane	7.683	88	34744	1013.952	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	952145	243.653	ug/l		98
52) Toluene	8.720	92	400051	47.503	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	221043	49.287	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	244614	48.187	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	151070	47.246	ug/l		97
56) Ethyl methacrylate	9.116	69	224978	47.723	ug/l		99
57) 1,3-Dichloropropane	9.305	76	255427	46.880	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	514434	229.244	ug/l		99
59) 2-Hexanone	9.427	43	643715	238.139	ug/l		100
60) Dibromochloromethane	9.518	129	180536	47.510	ug/l		98
61) 1,2-Dibromoethane	9.610	107	152751	46.327	ug/l		99
64) Tetrachloroethene	9.275	164	135984	48.259	ug/l		99
65) Chlorobenzene	10.079	112	439867	47.514	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	151414	48.384	ug/l		99
67) Ethyl Benzene	10.189	91	766794	48.124	ug/l		100
68) m/p-Xylenes	10.299	106	572388	96.341	ug/l		99
69) o-Xylene	10.640	106	275968	48.267	ug/l		99
70) Styrene	10.652	104	478038	49.483	ug/l		100
71) Bromoform	10.799	173	115849	49.276	ug/l	#	99
73) Isopropylbenzene	10.957	105	723706	48.628	ug/l		99
74) N-amyl acetate	10.841	43	278569	49.291	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	209247	47.887	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	162113m	46.476	ug/l		
77) Bromobenzene	11.195	156	171756	47.261	ug/l		98
78) n-propylbenzene	11.299	91	869019	48.892	ug/l		100
79) 2-Chlorotoluene	11.360	91	503902	46.898	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	590722	48.241	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	24594	33.692	ug/l		99
82) 4-Chlorotoluene	11.451	91	597497	47.174	ug/l		100
83) tert-Butylbenzene	11.713	119	596984	48.866	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	592440	48.380	ug/l		100
85) sec-Butylbenzene	11.890	105	735112	48.547	ug/l		100
86) p-Isopropyltoluene	12.006	119	618942	48.304	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	325052	46.819	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	326917	45.783	ug/l		99
89) n-Butylbenzene	12.329	91	569584	47.792	ug/l		100
90) Hexachloroethane	12.536	117	108936	48.462	ug/l		99
91) 1,2-Dichlorobenzene	12.329	146	311081	47.206	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	39921	47.241	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	202922	45.933	ug/l		99
94) Hexachlorobutadiene	13.719	225	65173	41.446	ug/l		99
95) Naphthalene	13.774	128	605337	47.948	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	195721	47.001	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

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\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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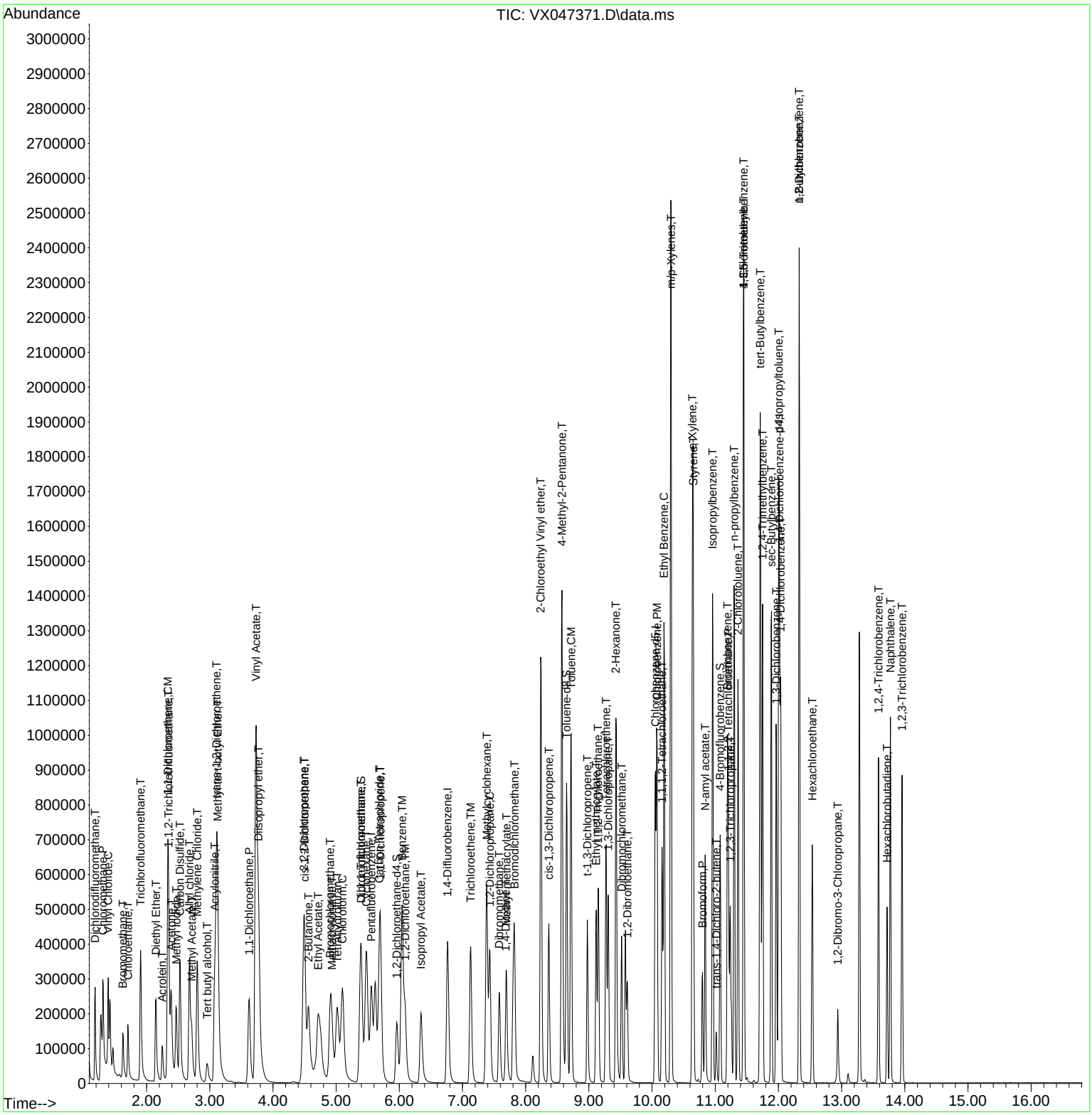
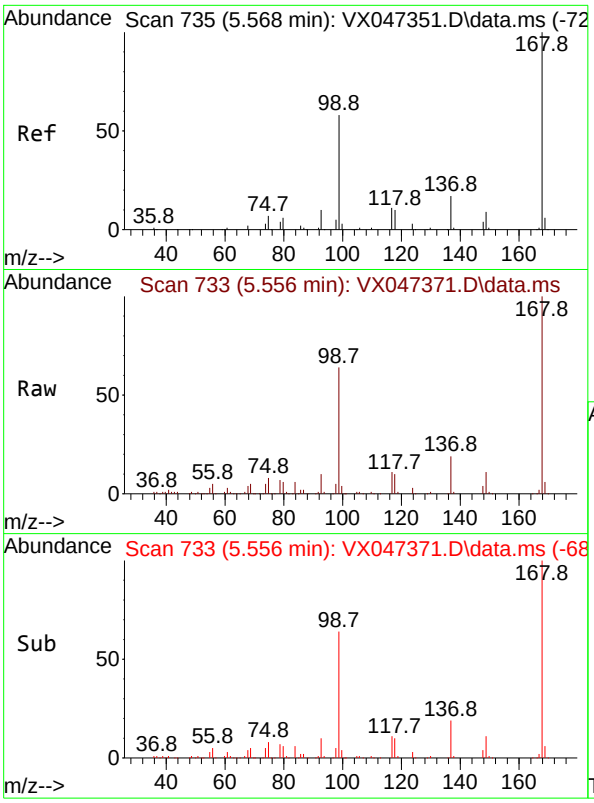
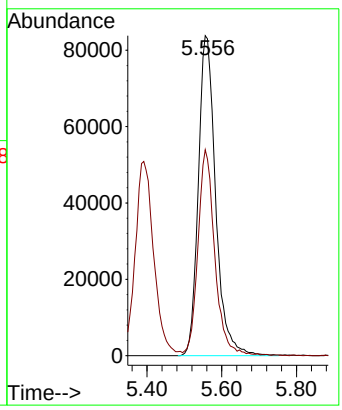




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:168 Resp: 26962

Ion	Ratio	Lower	Upper
168	100		
99	64.2	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/19/2025
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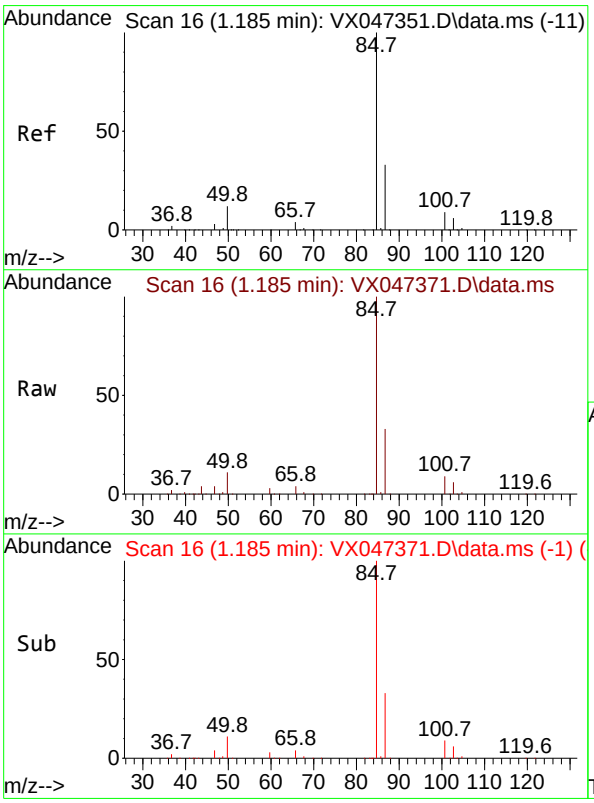
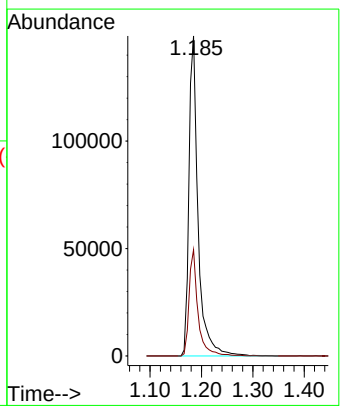
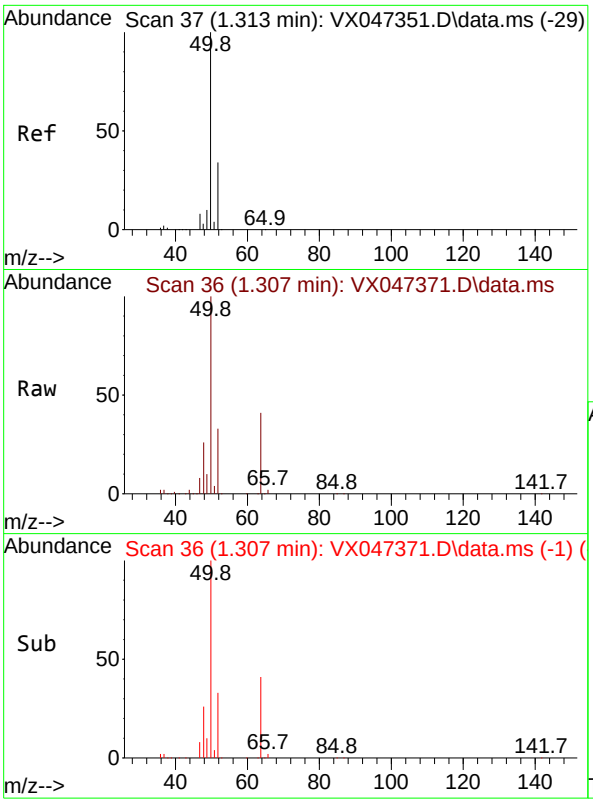


#2
Dichlorodifluoromethane
Concen: 53.419 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 85 Resp: 183604

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.4	49.1





#3
Chloromethane
Concen: 55.674 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 50 Resp: 17214

Ion	Ratio	Lower	Upper
50	100		
52	32.7	27.0	40.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/19/2025
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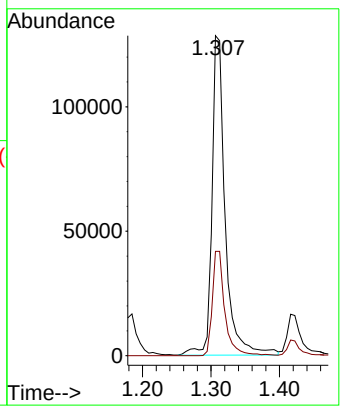
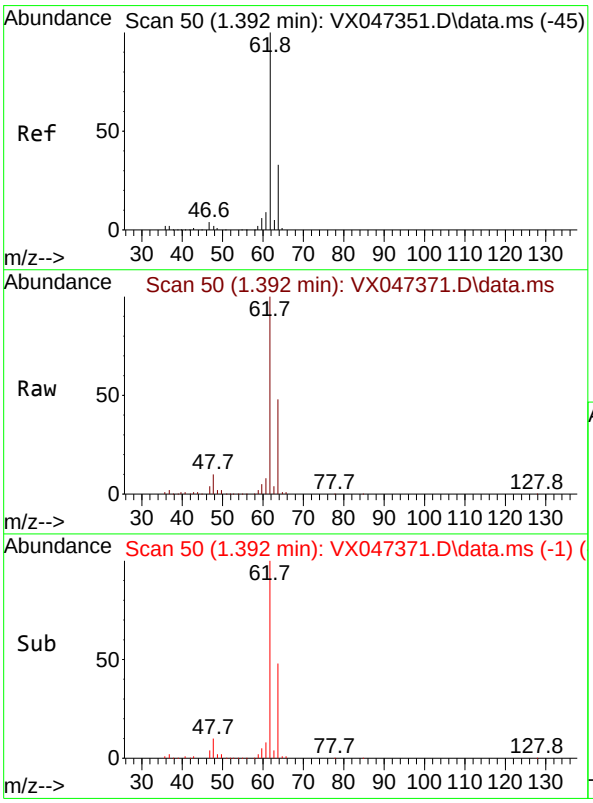
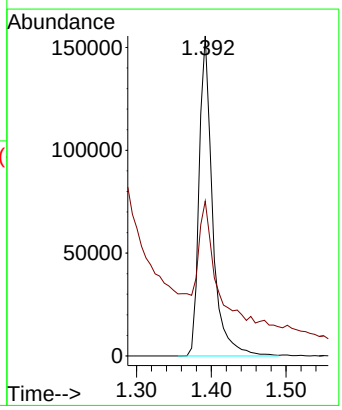


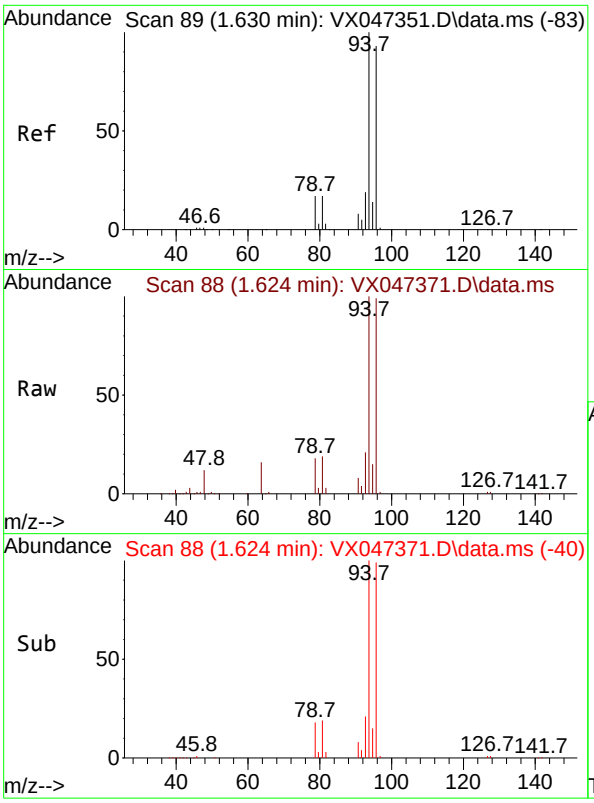


#4
Vinyl Chloride
Concen: 49.979 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 62 Resp: 193962

Ion	Ratio	Lower	Upper
62	100		
64	39.3	26.5	39.7

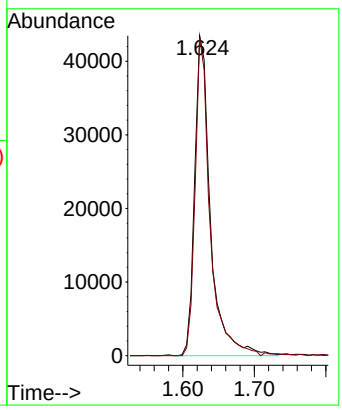




#5
Bromomethane
Concen: 42.665 ug/l
RT: 1.624 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 94 Resp: 6687

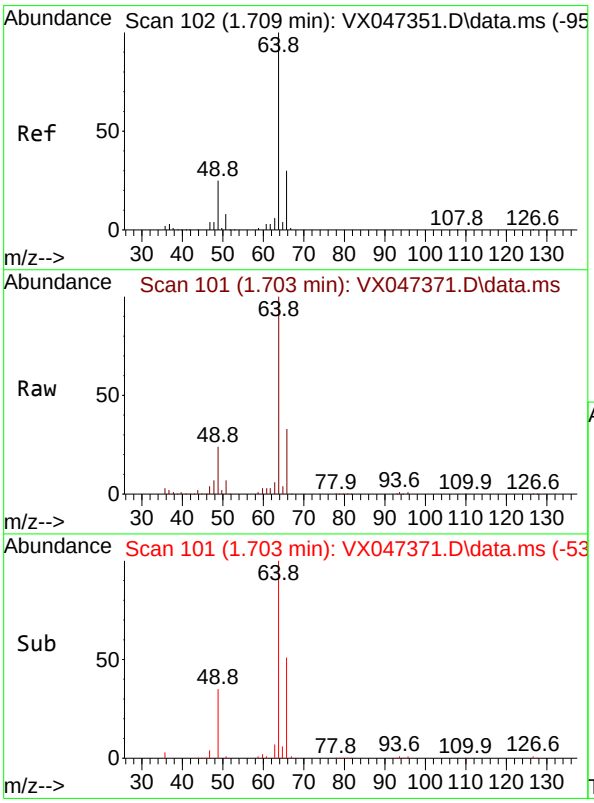
Ion	Ratio	Lower	Upper
94	100		
96	99.4	74.7	112.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

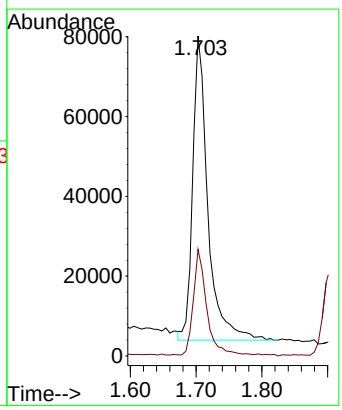
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

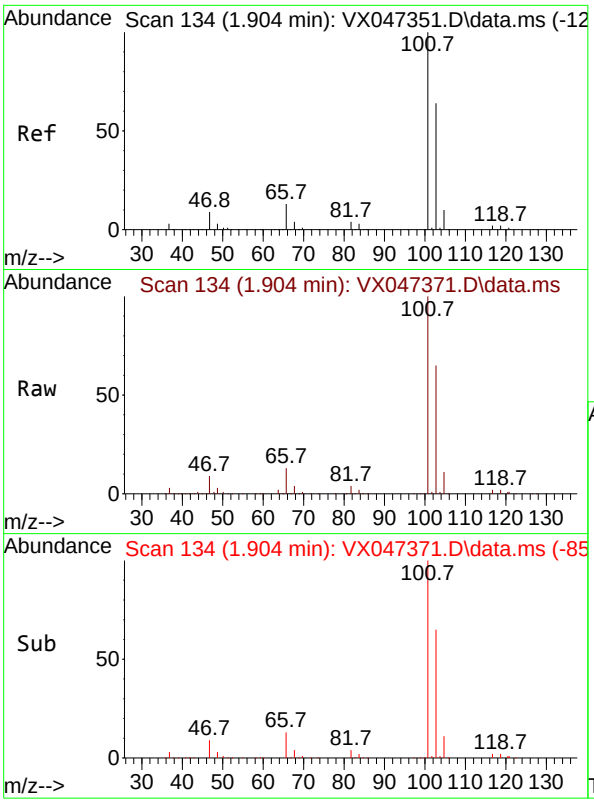


#6
Chloroethane
Concen: 51.248 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 64 Resp: 121687

Ion	Ratio	Lower	Upper
64	100		
66	35.1	24.4	36.6

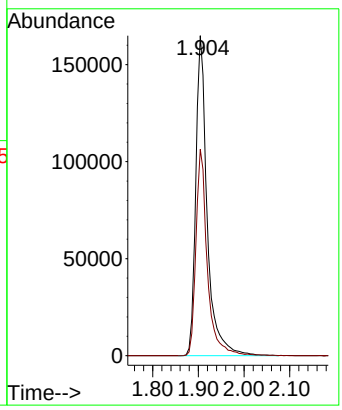




#7
Trichlorofluoromethane
Concen: 49.809 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:101 Resp: 28592

Ion	Ratio	Lower	Upper
101	100		
103	64.5	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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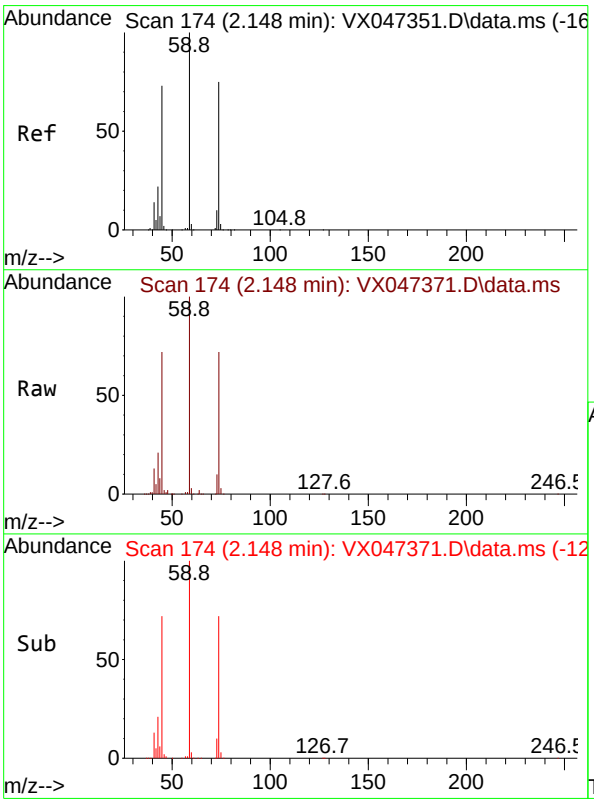
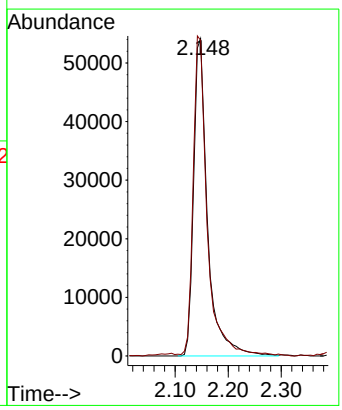
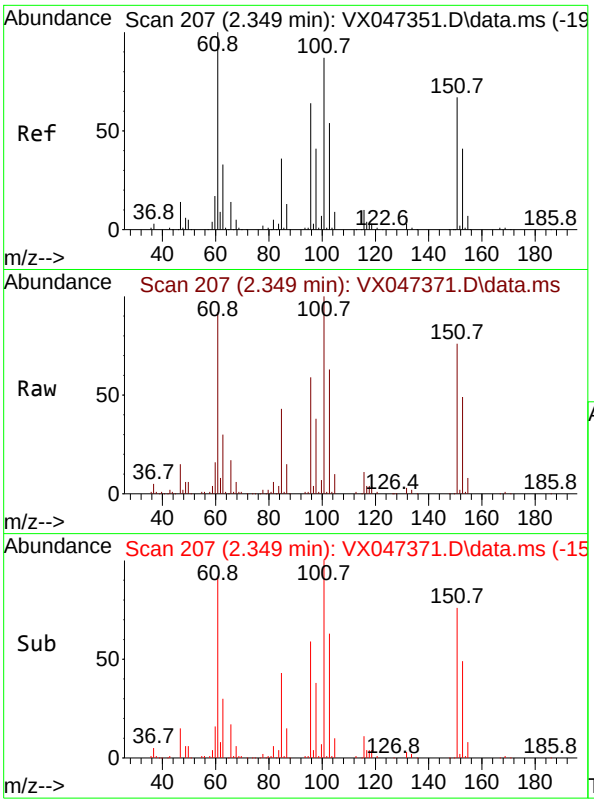


#8
Diethyl Ether
Concen: 48.828 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 74 Resp: 98695

Ion	Ratio	Lower	Upper
74	100		
45	99.9	51.3	154.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.087 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

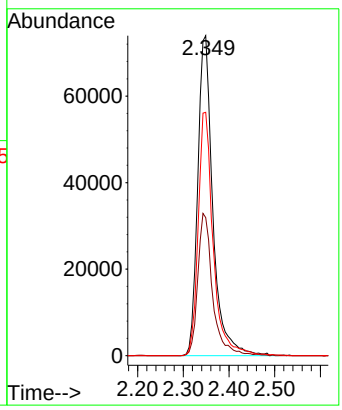
Tgt Ion:101 Resp: 17011

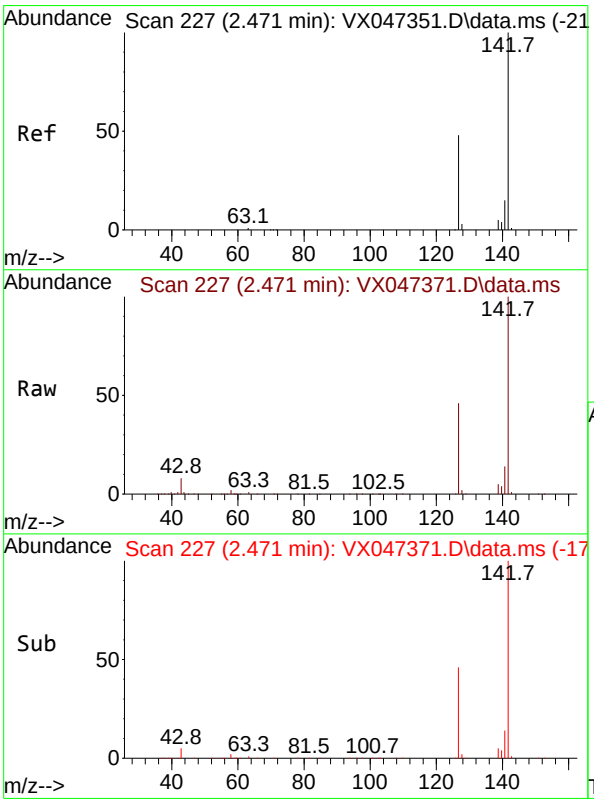
Ion	Ratio	Lower	Upper
101	100		
85	43.7	34.3	51.5
151	75.8	59.2	88.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

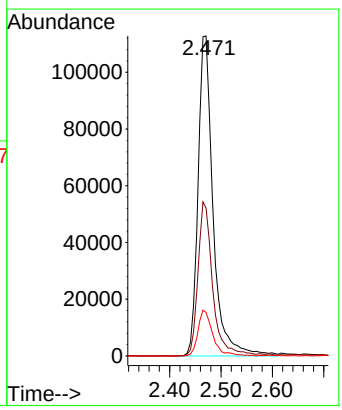


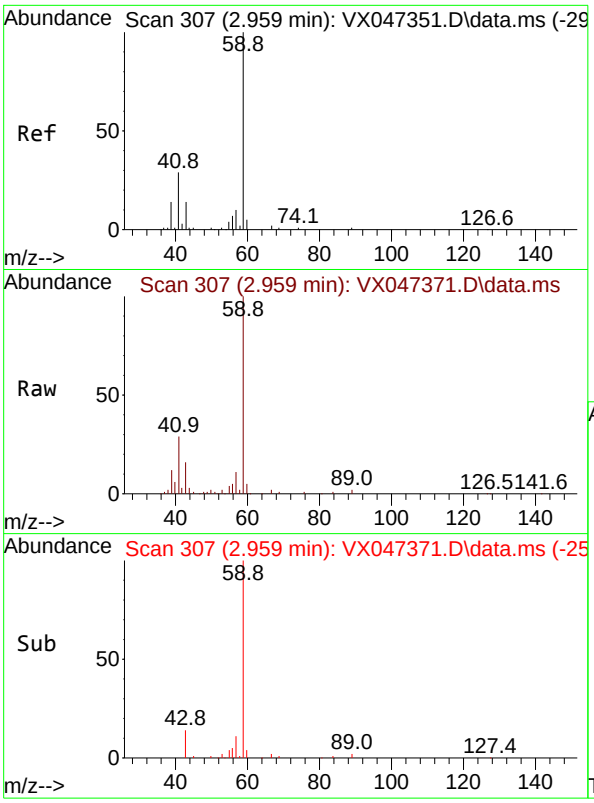


#10
Methyl Iodide
Concen: 40.343 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:142 Resp: 230213

Ion	Ratio	Lower	Upper
142	100		
127	47.2	36.1	54.1
141	14.1	11.1	16.7

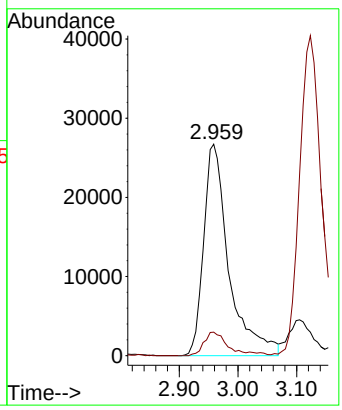




#11
Tert butyl alcohol
Concen: 243.310 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 59 Resp: 7987

Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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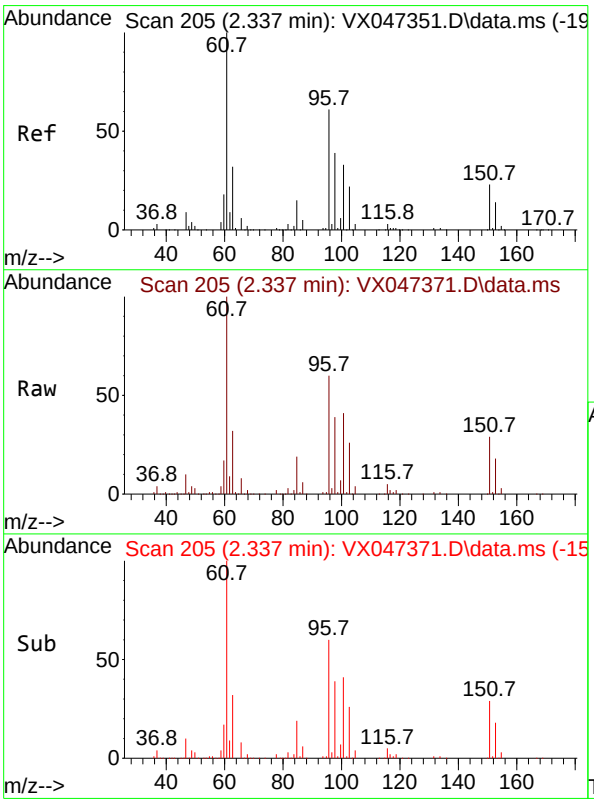
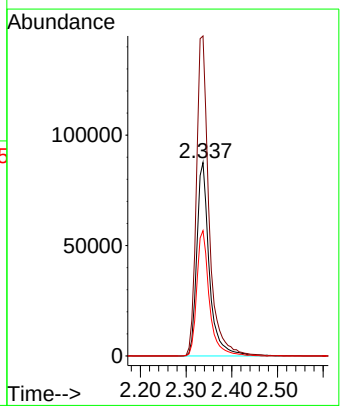
Supervised By :Mahesh Dadoda 08/20/2025

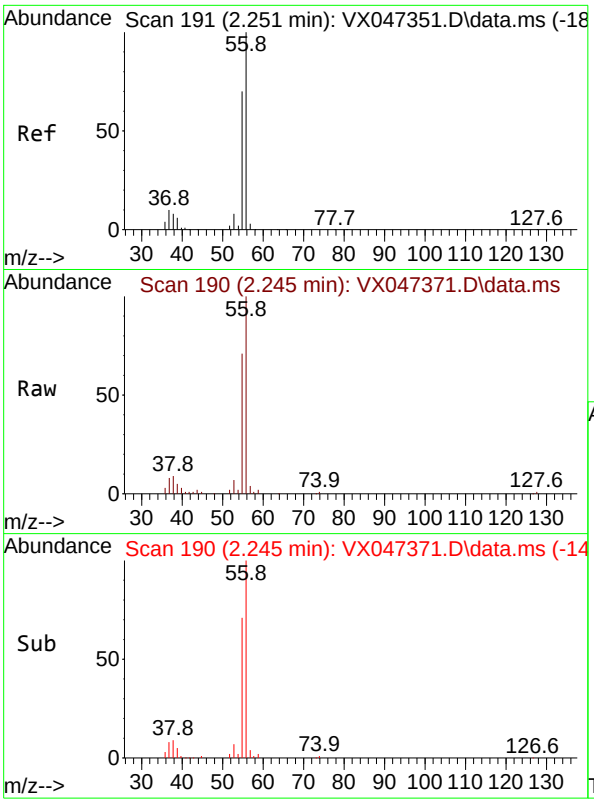


#12
1,1-Dichloroethene
Concen: 48.931 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 96 Resp: 166109

Ion	Ratio	Lower	Upper
96	100		
61	165.5	132.2	198.2
98	64.8	51.2	76.8

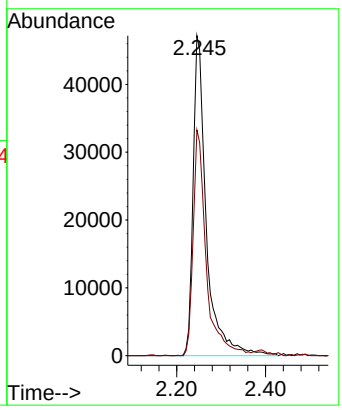




#13
Acrolein
Concen: 140.523 ug/l
RT: 2.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 56 Resp: 9737

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.5	83.3



Instrument :
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ClientSampleId :
VSTDCCC050

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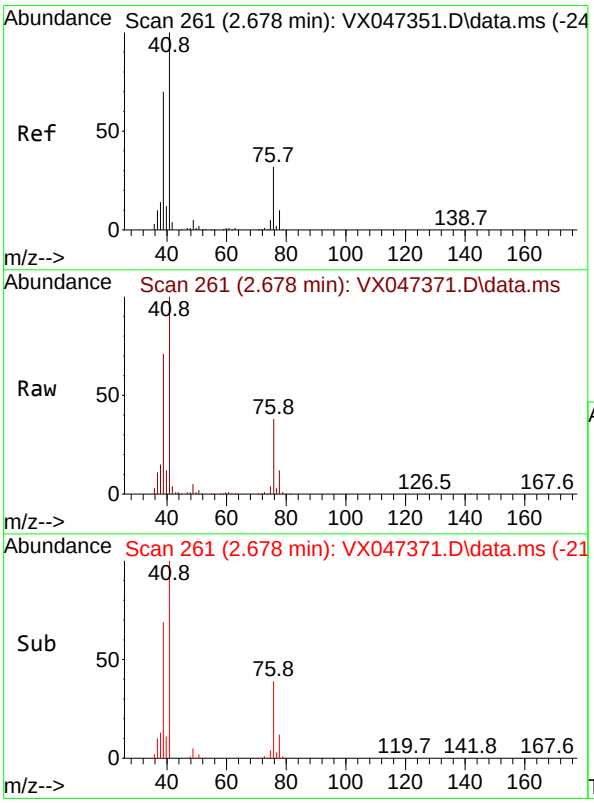
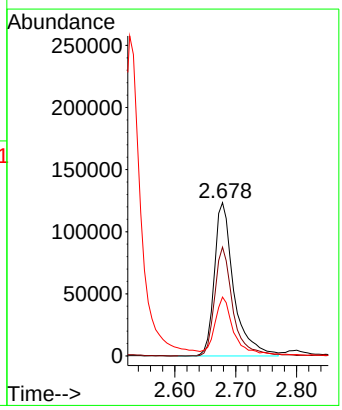
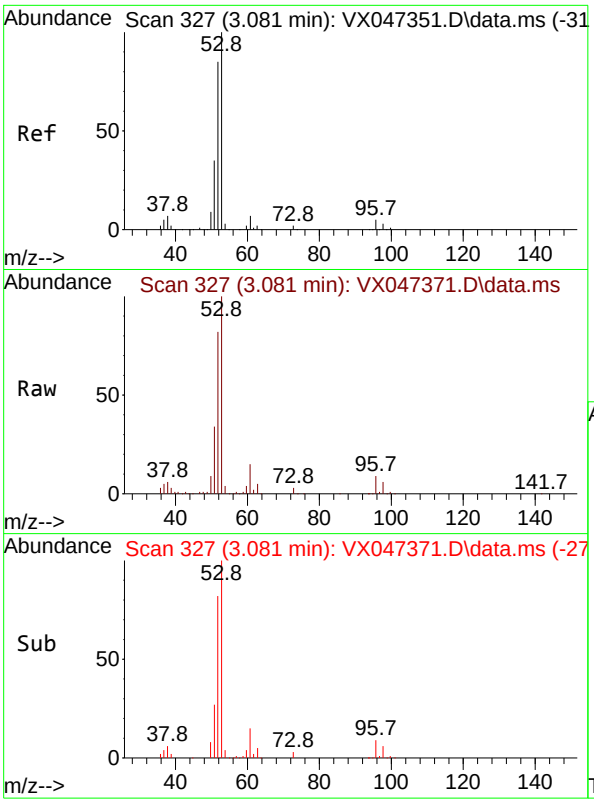


#14
Allyl chloride
Concen: 46.403 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 41 Resp: 273602

Ion	Ratio	Lower	Upper
41	100		
39	67.0	54.6	81.8
76	37.7	27.6	41.4





#15
Acrylonitrile
Concen: 246.561 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 53 Resp: 39110

Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.8	98.6
51	35.5	28.2	42.2

Instrument :
MSVOA_X
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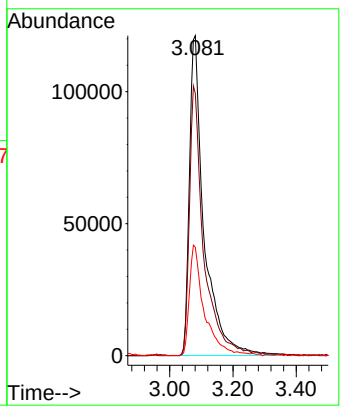
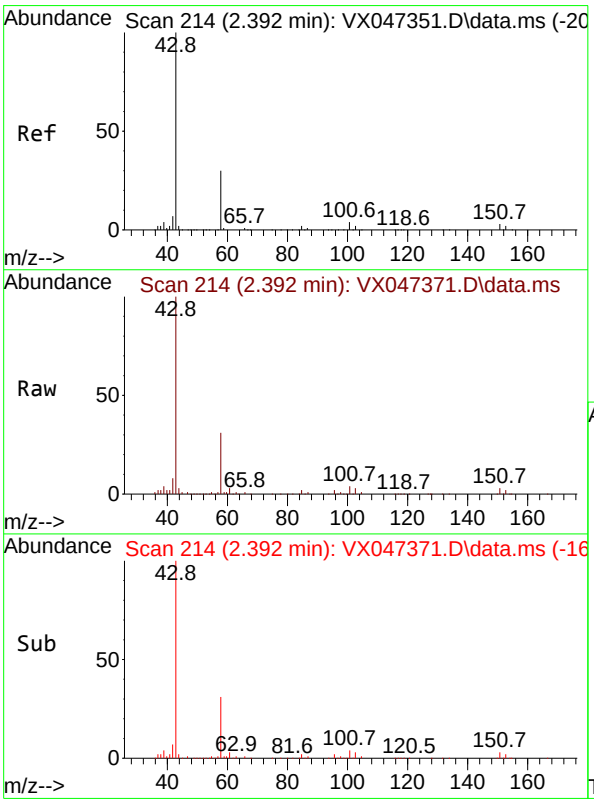
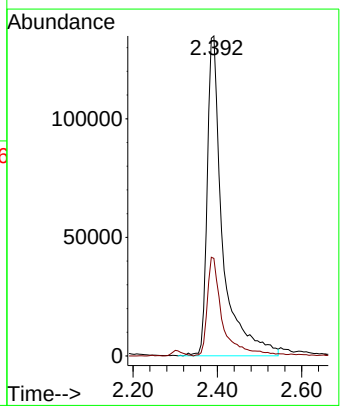


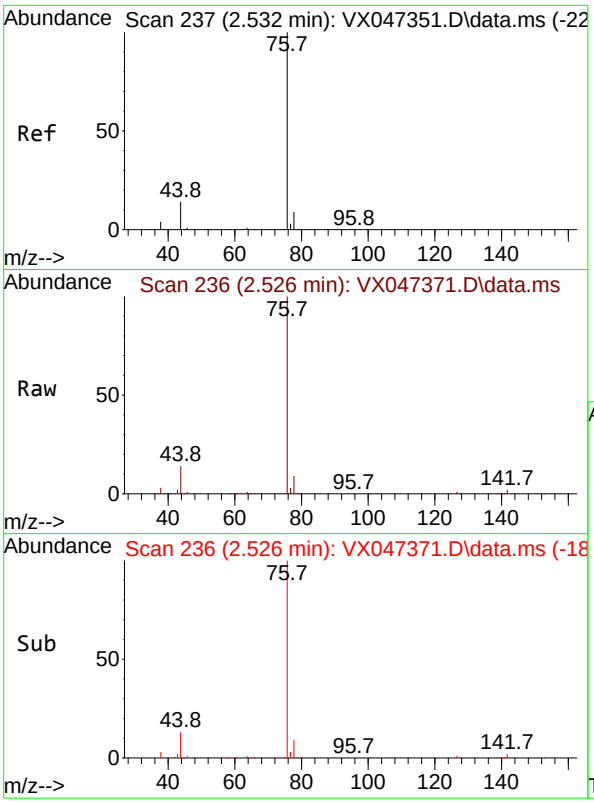


#16
Acetone
Concen: 241.230 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 43 Resp: 342152

Ion	Ratio	Lower	Upper
43	100		
58	29.8	24.8	37.2





#17
Carbon Disulfide
Concen: 50.344 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 76 Resp: 51572

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.2	10.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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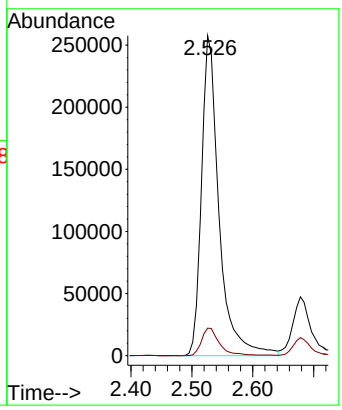
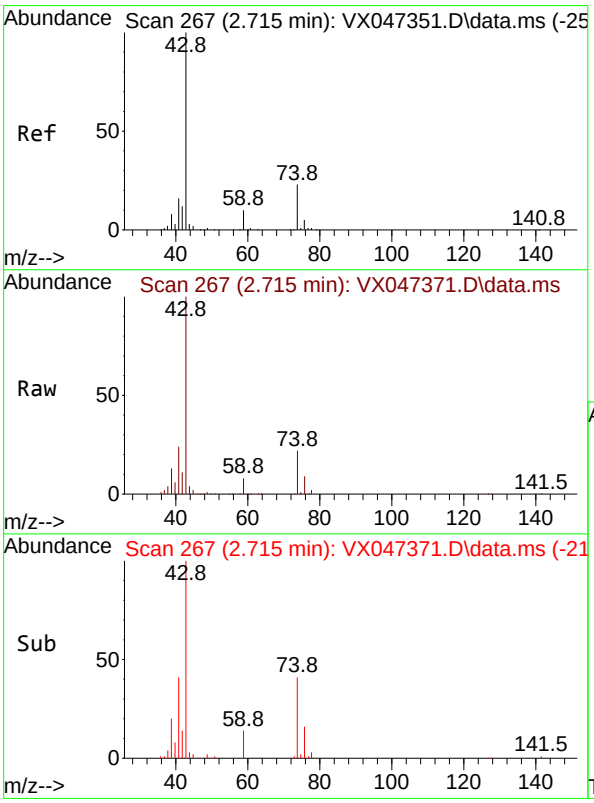
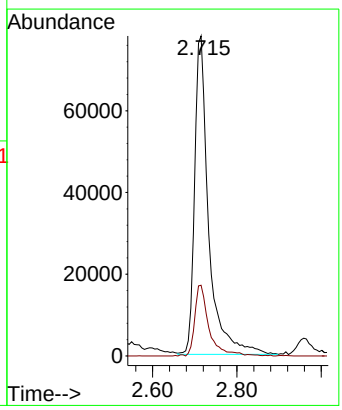


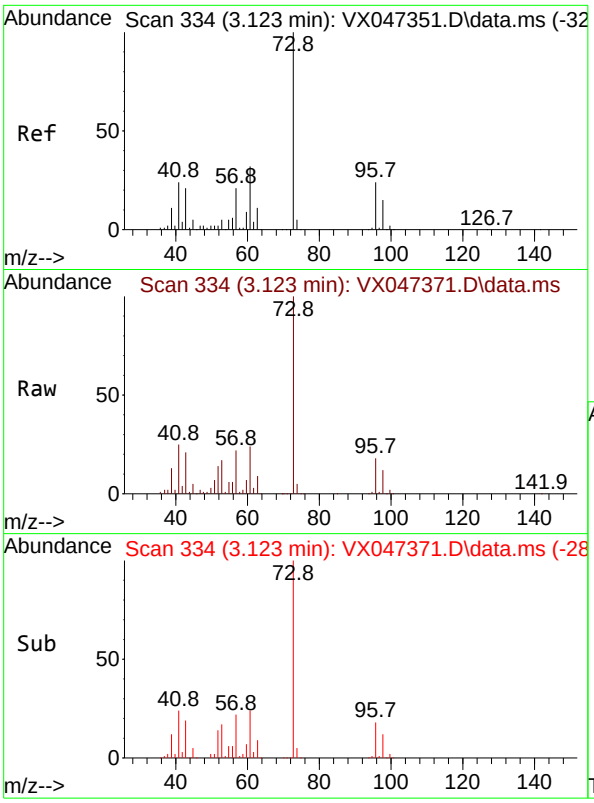


#18
Methyl Acetate
Concen: 49.319 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 43 Resp: 181273

Ion	Ratio	Lower	Upper
43	100		
74	22.6	18.4	27.6

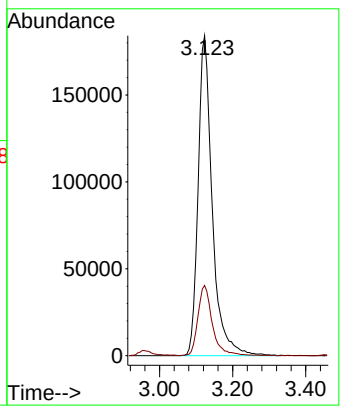




#19
Methyl tert-butyl Ether
Concen: 48.031 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 73 Resp: 49603

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.0	25.6



Instrument :
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ClientSampleId :
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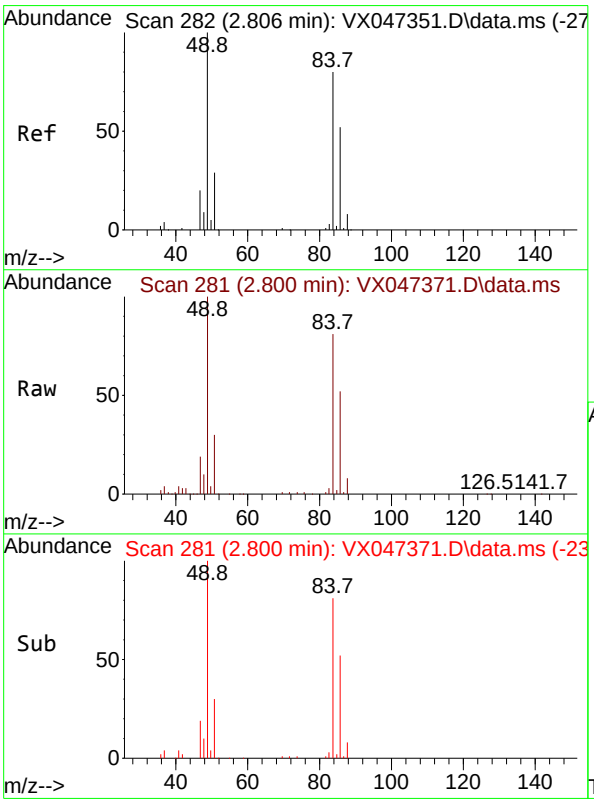
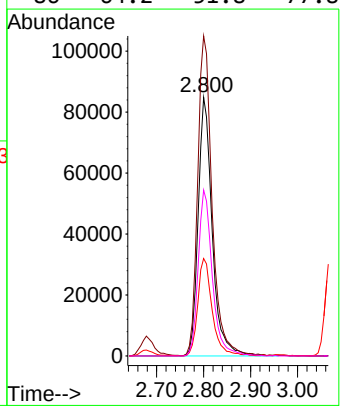
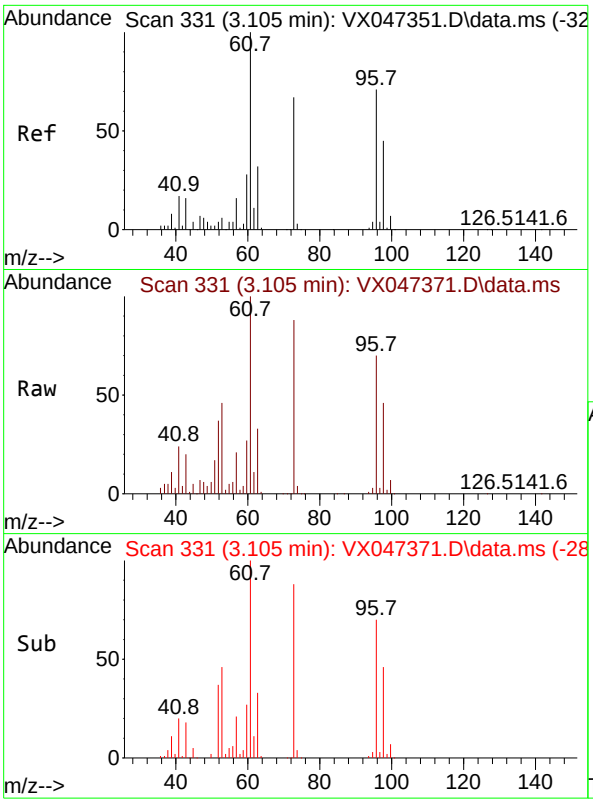


#20
Methylene Chloride
Concen: 47.188 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 84 Resp: 177230

Ion	Ratio	Lower	Upper
84	100		
49	123.5	100.1	150.1
51	37.6	29.5	44.3
86	64.2	51.8	77.8

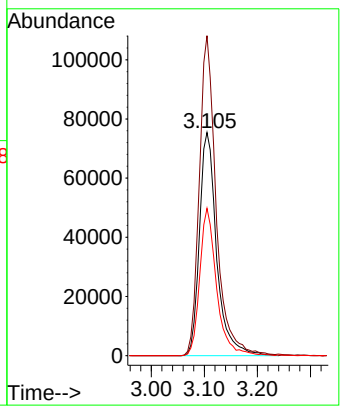




#21
trans-1,2-Dichloroethene
Concen: 47.345 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 96 Resp: 17058

Ion	Ratio	Lower	Upper
96	100		
61	143.4	112.6	169.0
98	66.0	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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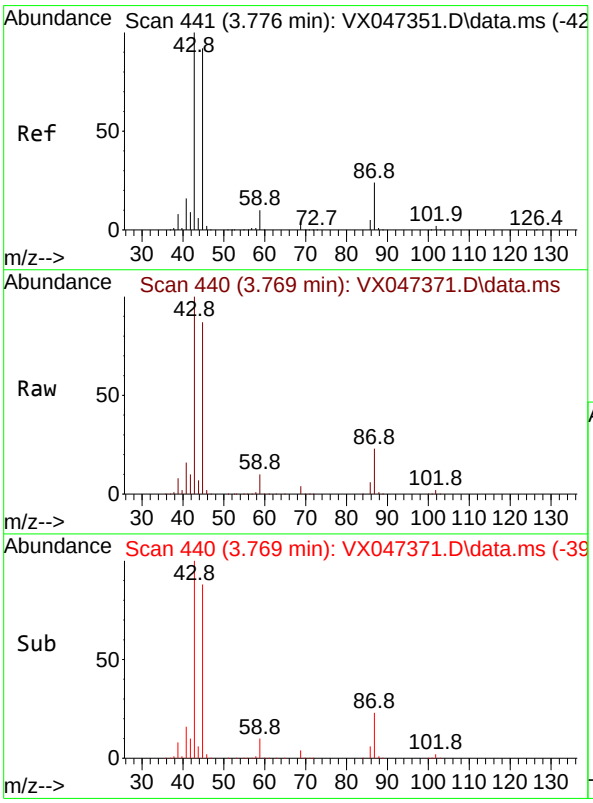
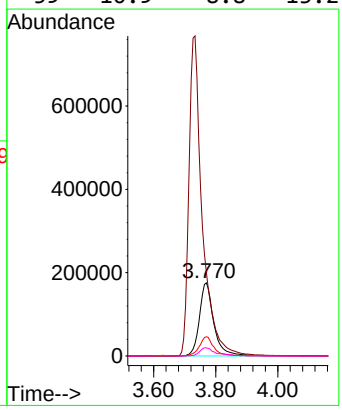
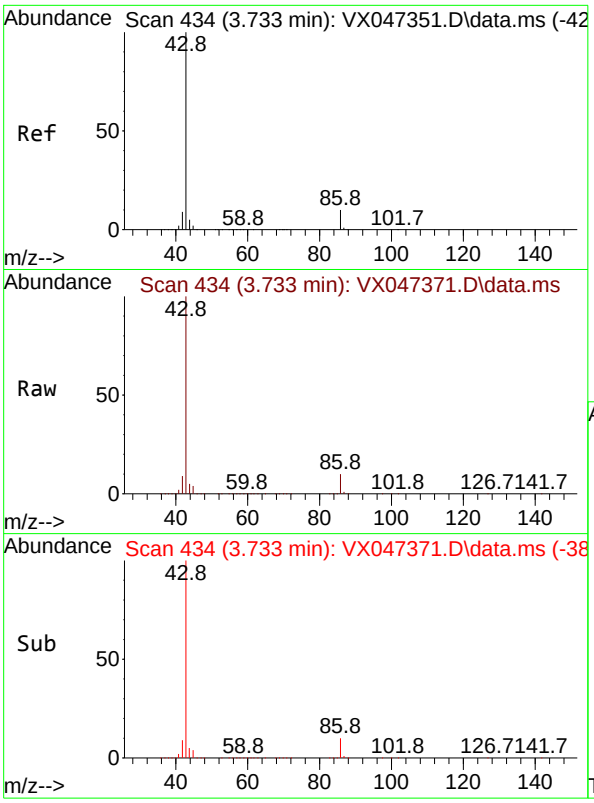


#22
Diisopropyl ether
Concen: 48.571 ug/l
RT: 3.769 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 45 Resp: 566100

Ion	Ratio	Lower	Upper
45	100		
43	114.0	86.8	130.2
87	26.3	20.4	30.6
59	10.9	8.8	13.2





#23
Vinyl Acetate
Concen: 241.659 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 43 Resp: 230856

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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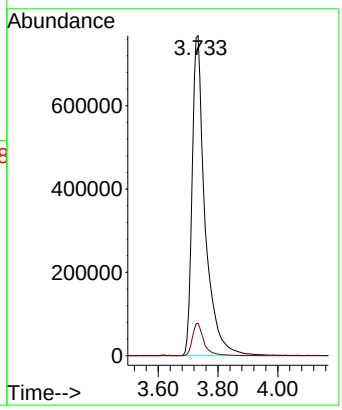
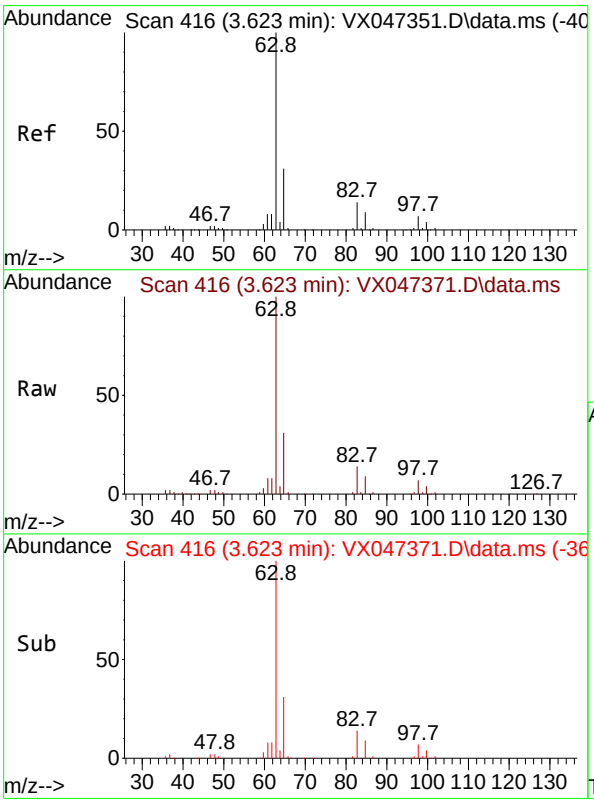
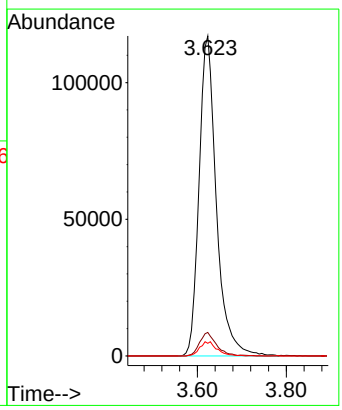


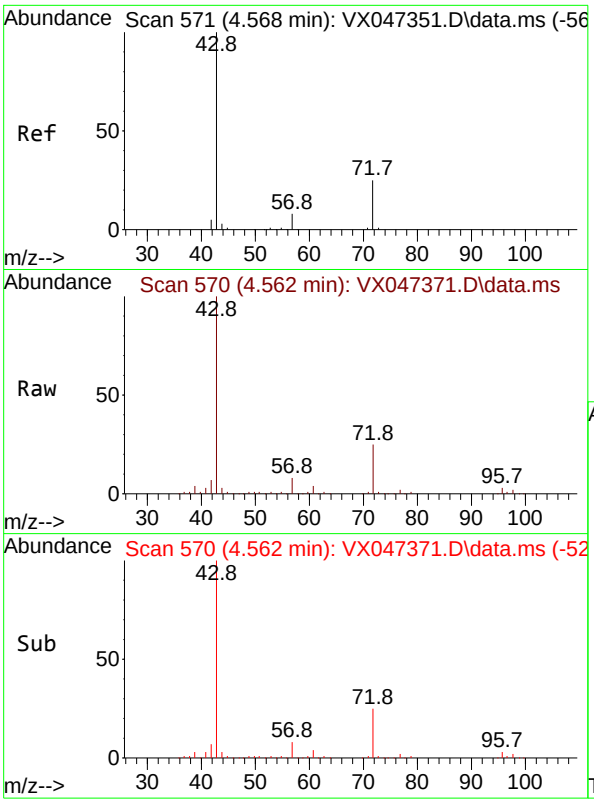


#24
1,1-Dichloroethane
Concen: 48.171 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 63 Resp: 317338

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.3	9.9
100	3.9	2.1	6.3

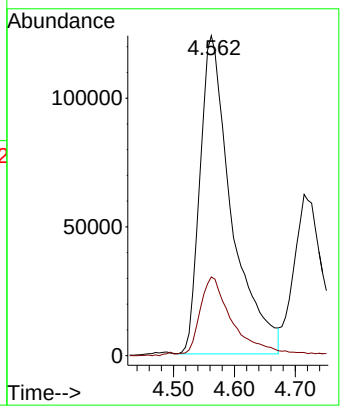




#25
2-Butanone
Concen: 239.666 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 43 Resp: 44520

Ion	Ratio	Lower	Upper
43	100		
72	24.1	19.8	29.8



Instrument :
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ClientSampleId :
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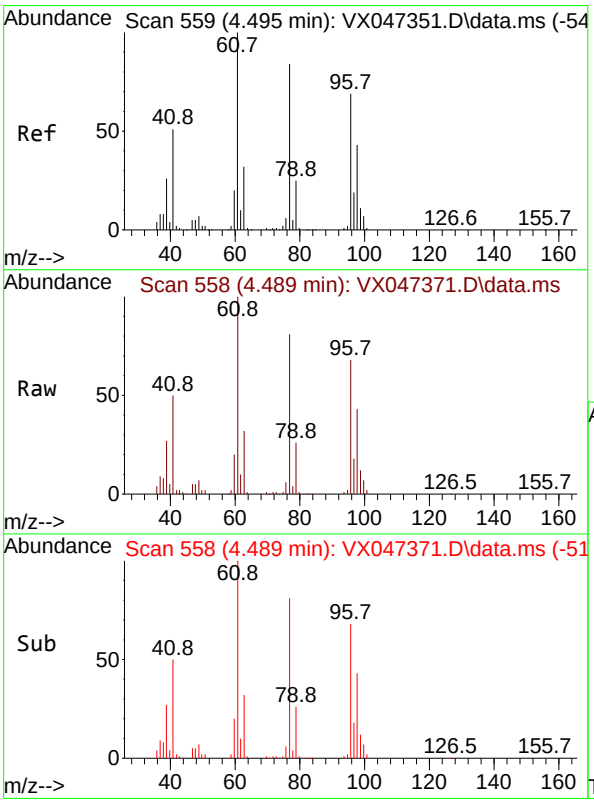
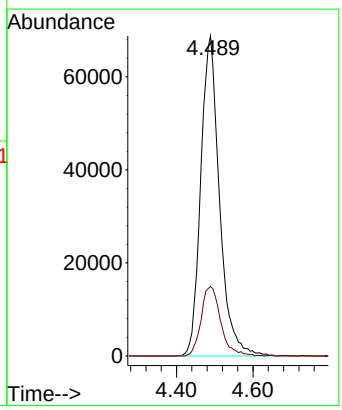
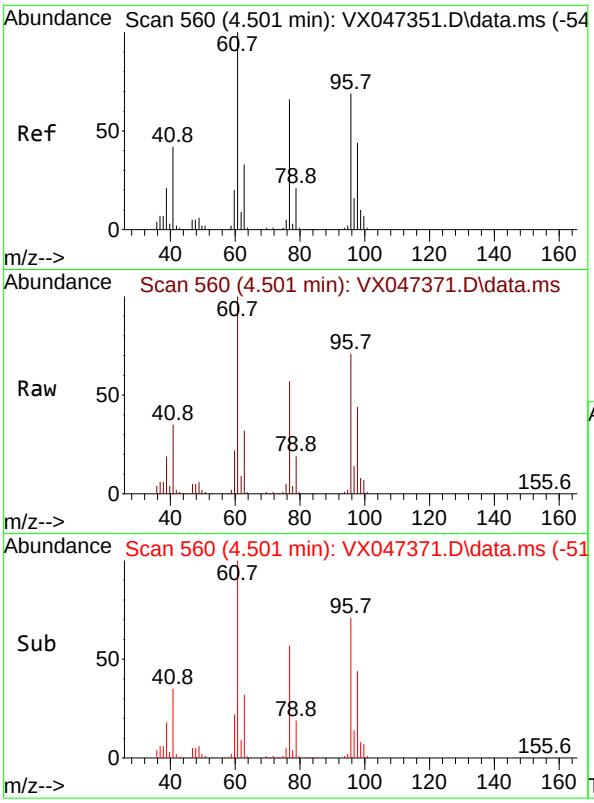


#26
2,2-Dichloropropane
Concen: 46.963 ug/l
RT: 4.489 min Scan# 558
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 77 Resp: 233509

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.4	34.1

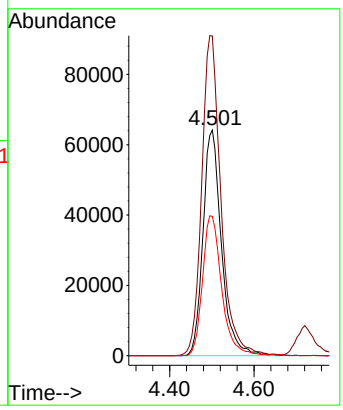




#27
cis-1,2-Dichloroethene
Concen: 46.668 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 96 Resp: 19584

Ion	Ratio	Lower	Upper
96	100		
61	147.7	0.0	296.6
98	64.0	0.0	130.4



Instrument :
MSVOA_X
ClientSampleId :
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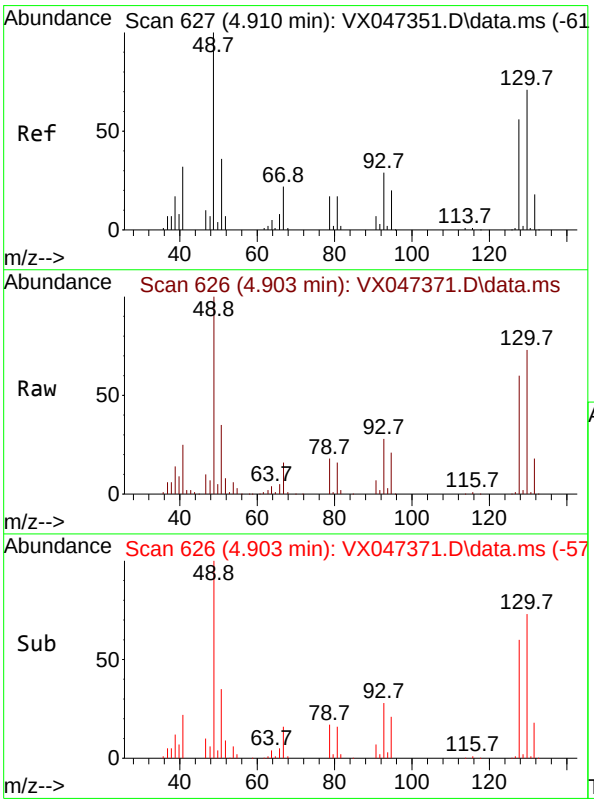
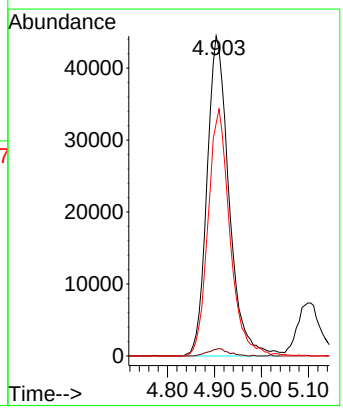
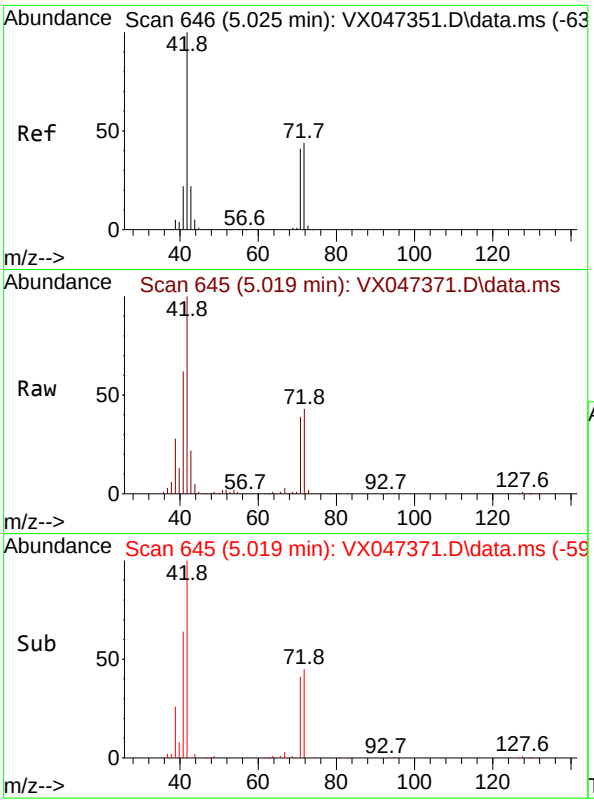


#28
Bromochloromethane
Concen: 52.737 ug/l
RT: 4.903 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 49 Resp: 144569

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.0
130	76.5	59.8	89.6

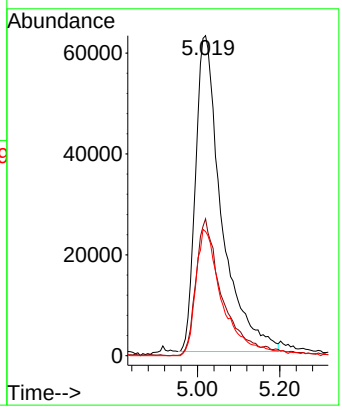




#29
Tetrahydrofuran
Concen: 229.620 ug/l
RT: 5.019 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 42 Resp: 27569

Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.6	51.8
71	41.3	32.6	49.0



Instrument :
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ClientSampleId :
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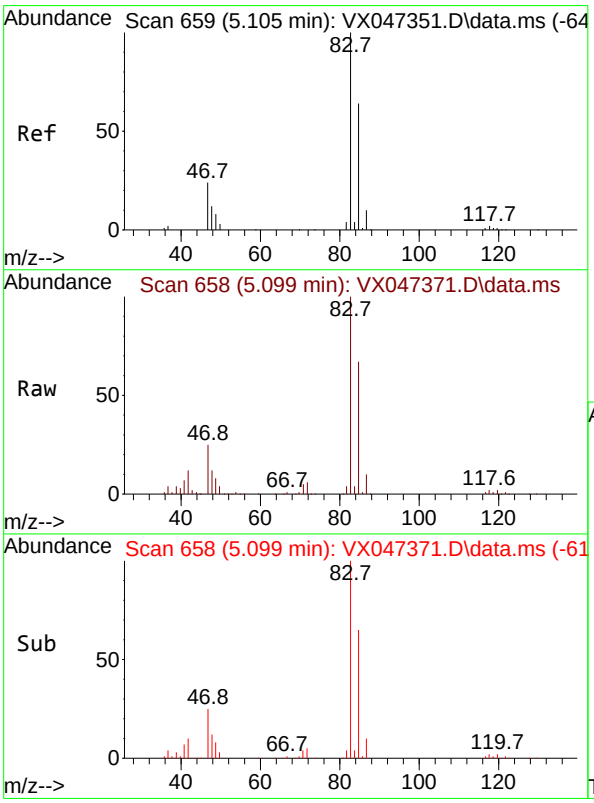
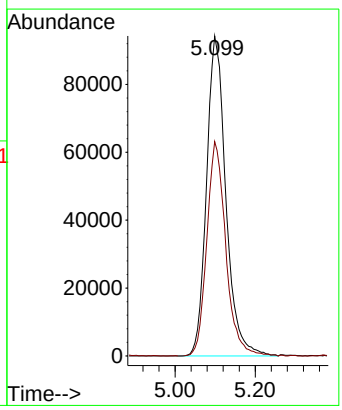
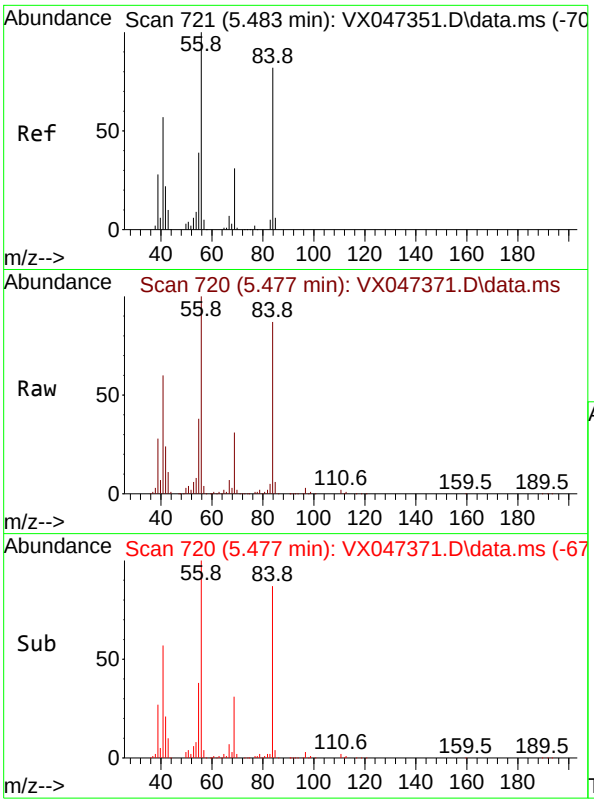


#30
Chloroform
Concen: 46.921 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 83 Resp: 315459

Ion	Ratio	Lower	Upper
83	100		
85	67.0	51.2	76.8

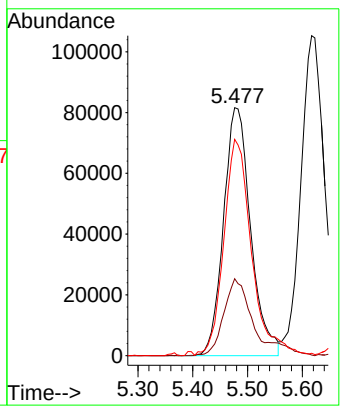




#31
Cyclohexane
Concen: 46.209 ug/l
RT: 5.477 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 56 Resp: 28061

Ion	Ratio	Lower	Upper
56	100		
69	30.8	24.3	36.5
84	87.1	65.3	97.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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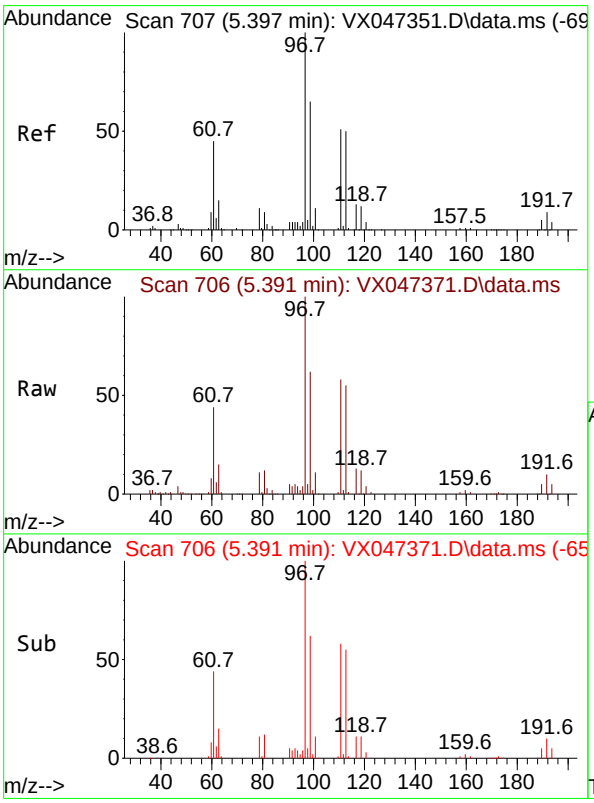
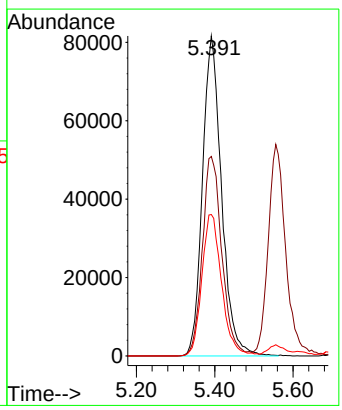
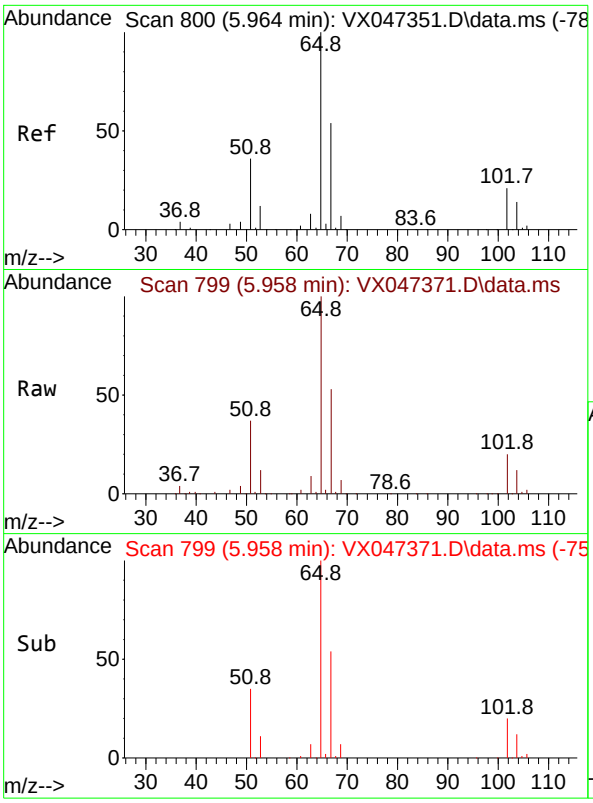


#32
1,1,1-Trichloroethane
Concen: 47.731 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 97 Resp: 276215

Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.4	77.0
61	45.9	35.7	53.5

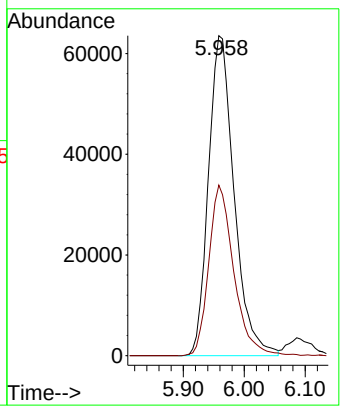




#33
1,2-Dichloroethane-d4
Concen: 49.309 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 65 Resp: 18606

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	106.0



Instrument :
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ClientSampleId :
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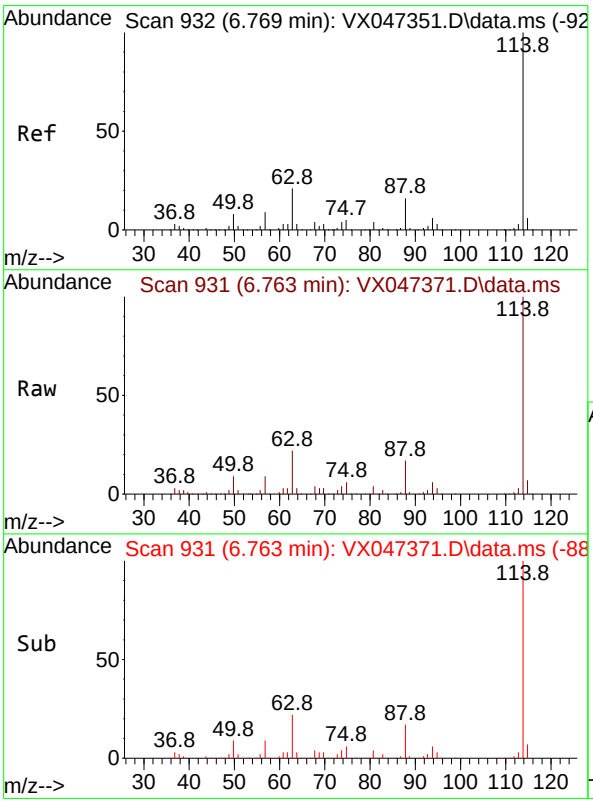
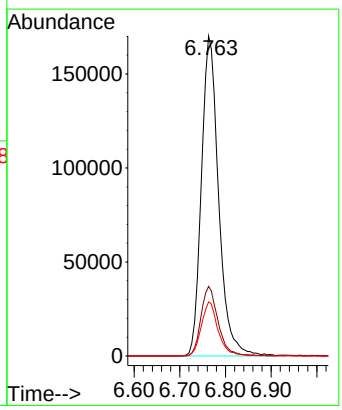
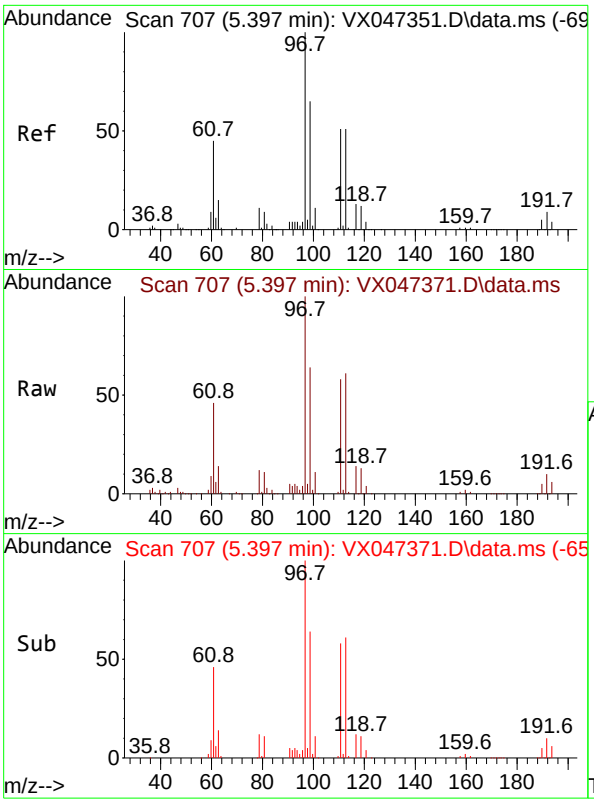


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:114 Resp: 444434

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	42.4
88	16.9	0.0	33.0

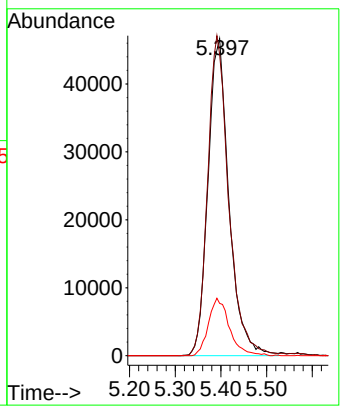




#35
Dibromofluoromethane
Concen: 51.741 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:113 Resp: 14924

Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.4	122.2
192	18.2	14.1	21.1



Instrument :
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ClientSampleId :
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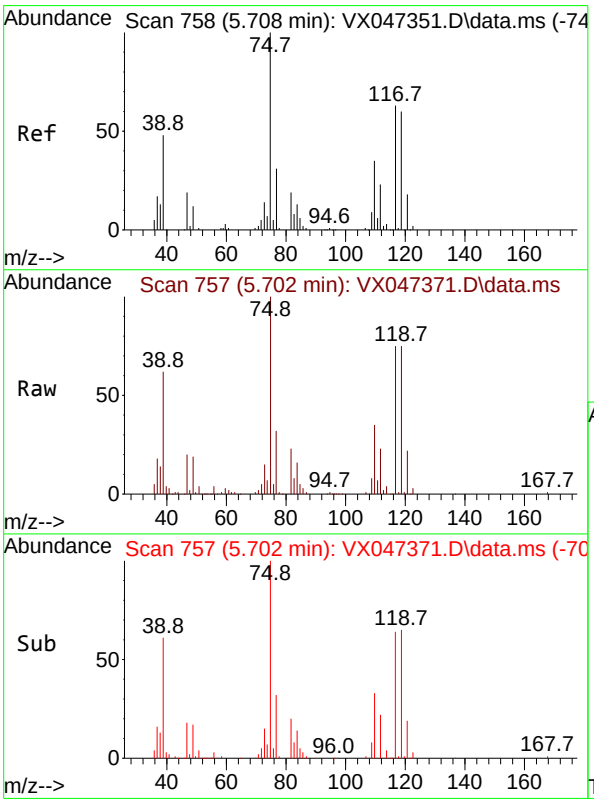
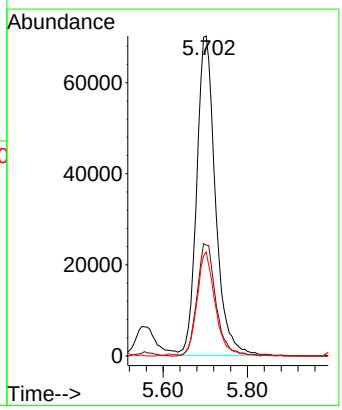
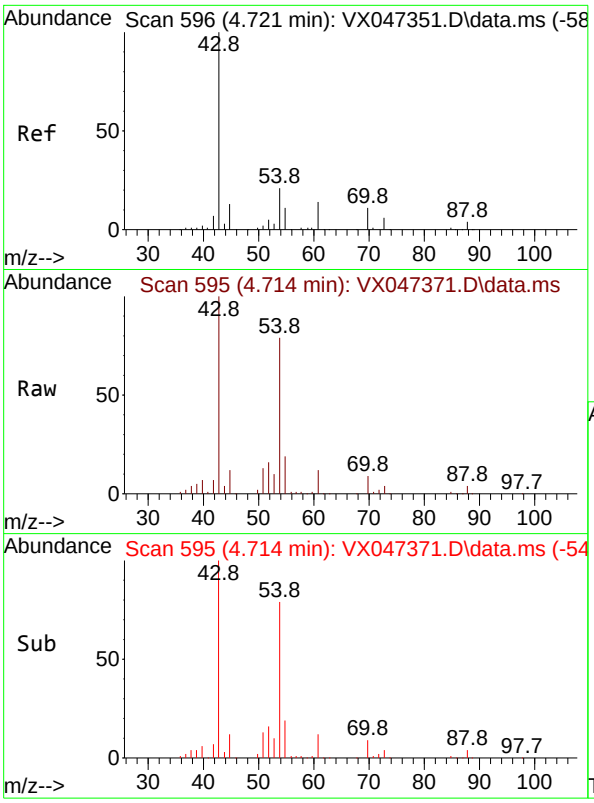


#36
1,1-Dichloropropene
Concen: 47.491 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 75 Resp: 216239

Ion	Ratio	Lower	Upper
75	100		
110	35.7	17.4	52.2
77	31.6	24.4	36.6





#37
Ethyl Acetate
Concen: 49.091 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 43 Resp: 23205

Ion	Ratio	Lower	Upper
43	100		
61	10.7	9.4	14.2
70	8.7	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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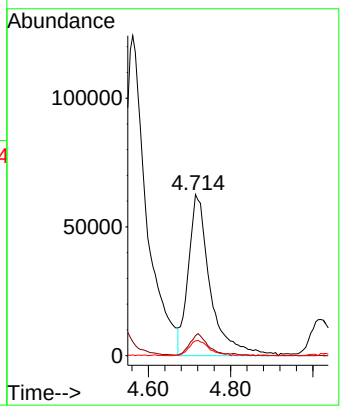
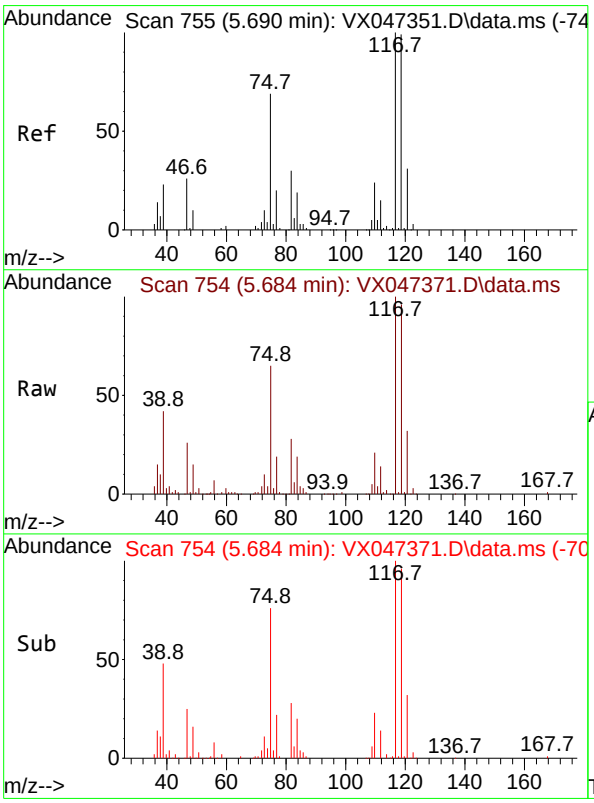
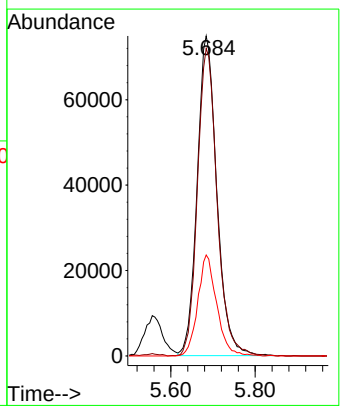


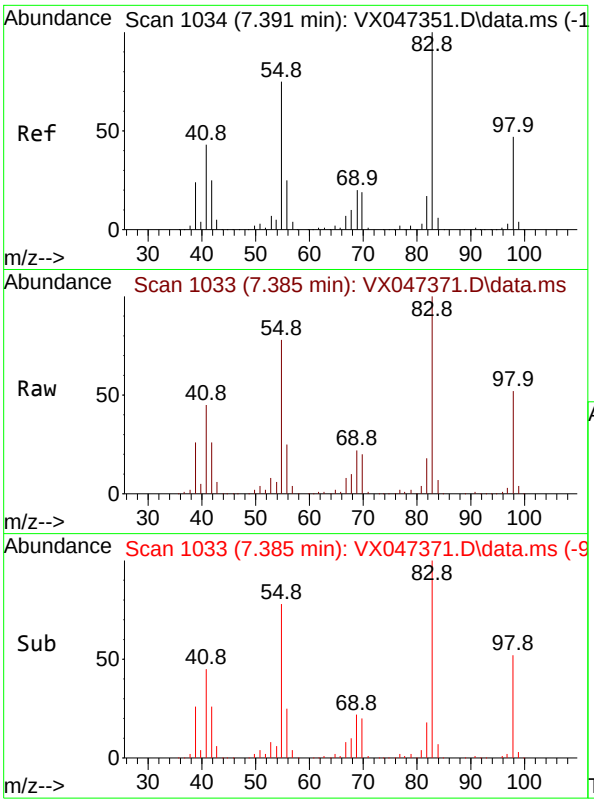


#38
Carbon Tetrachloride
Concen: 48.915 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:117 Resp: 243389

Ion	Ratio	Lower	Upper
117	100		
119	96.2	78.5	117.7
121	31.6	24.7	37.1

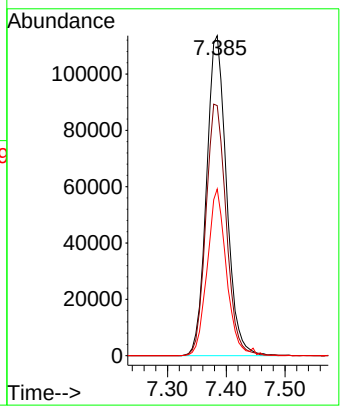




#39
Methylcyclohexane
Concen: 47.245 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 83 Resp: 26833

Ion	Ratio	Lower	Upper
83	100		
55	78.1	60.0	90.0
98	52.1	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
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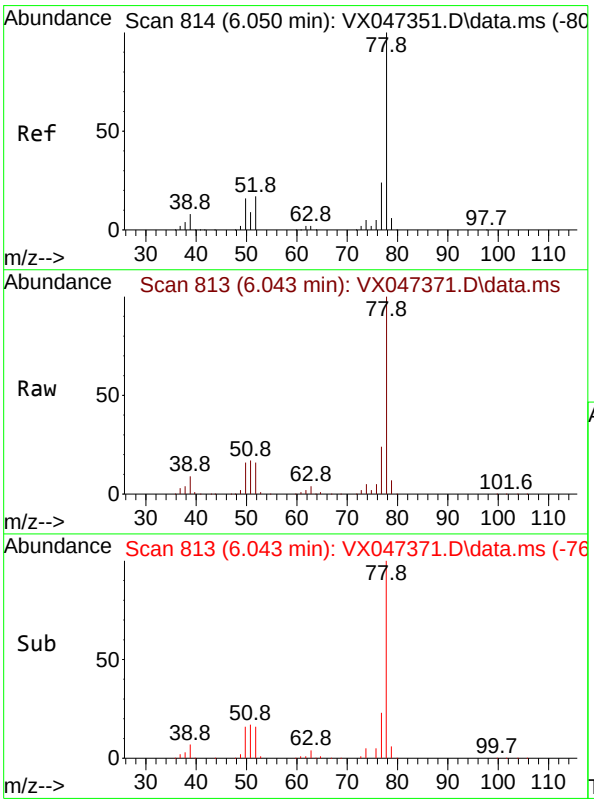
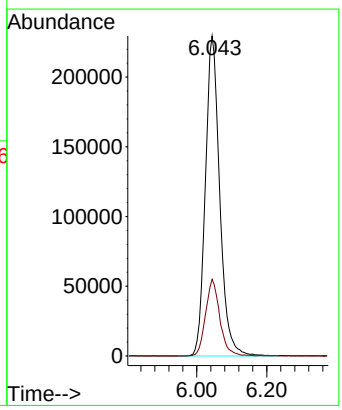
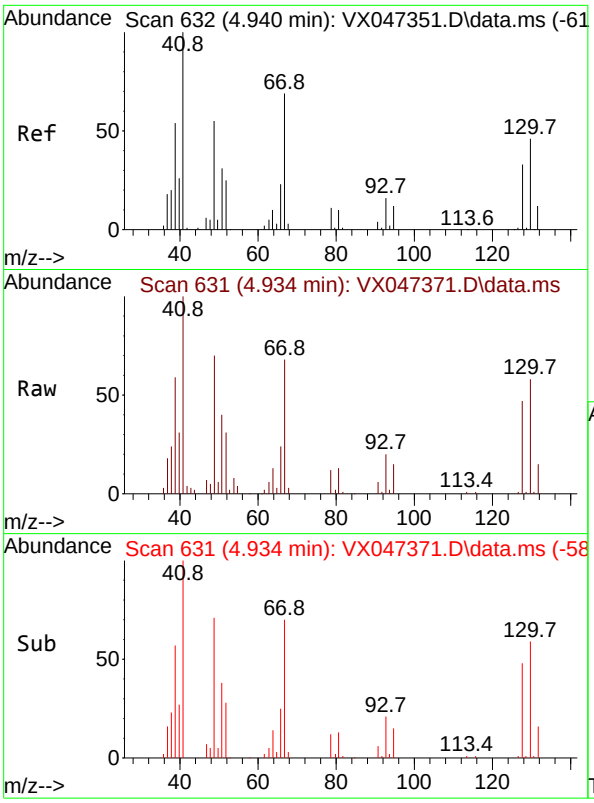


#40
Benzene
Concen: 47.917 ug/l
RT: 6.043 min Scan# 813
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 78 Resp: 653043

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.4

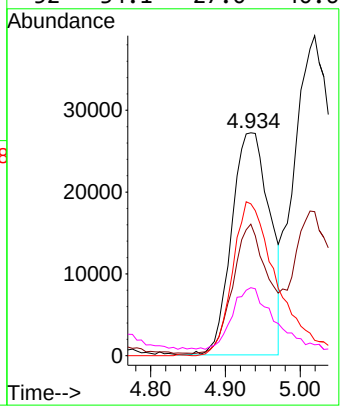




#41
Methacrylonitrile
Concen: 48.083 ug/l
RT: 4.934 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 41 Resp: 9584

Ion	Ratio	Lower	Upper
41	100		
39	53.1	45.4	68.2
67	83.4	64.0	96.0
52	34.1	27.0	40.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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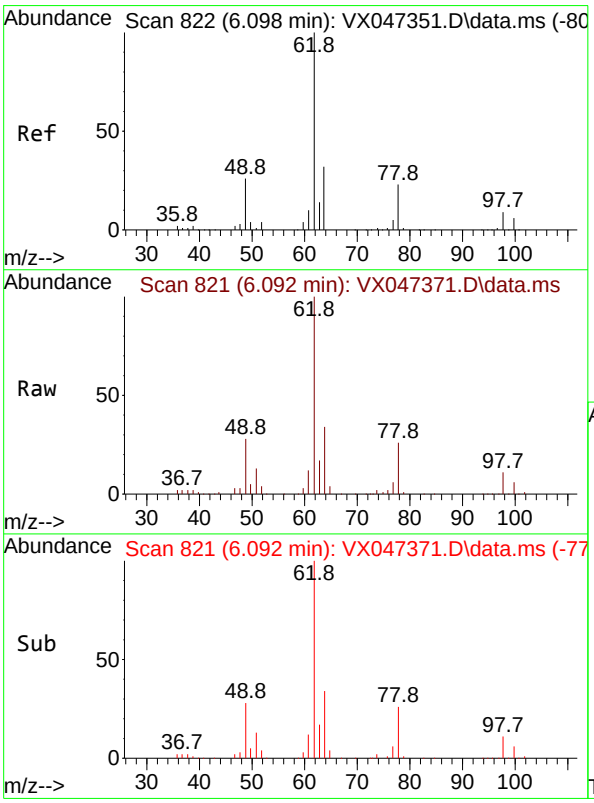
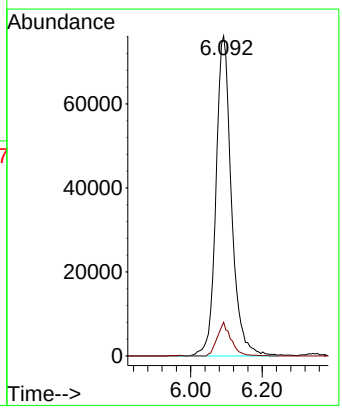
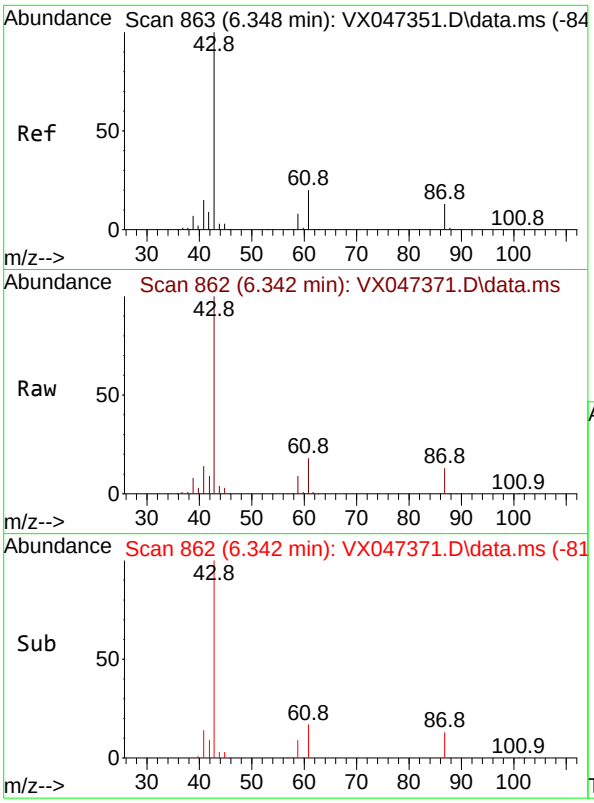


#42
1,2-Dichloroethane
Concen: 47.424 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 62 Resp: 228939

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.0

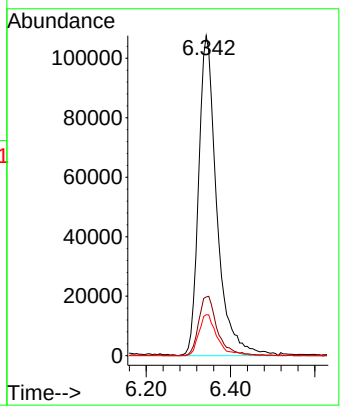




#43
Isopropyl Acetate
Concen: 47.583 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 43 Resp: 32312

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.4	23.0
87	12.9	10.2	15.4



Instrument :
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ClientSampleId :
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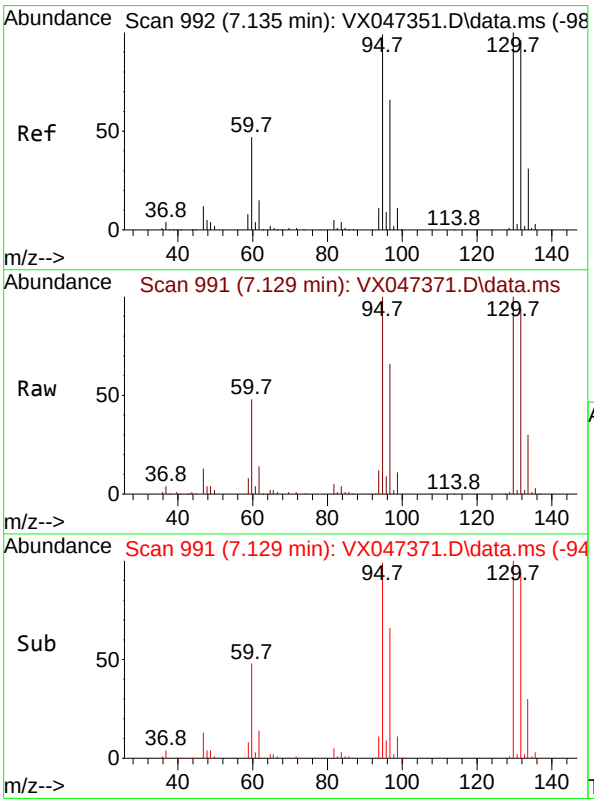
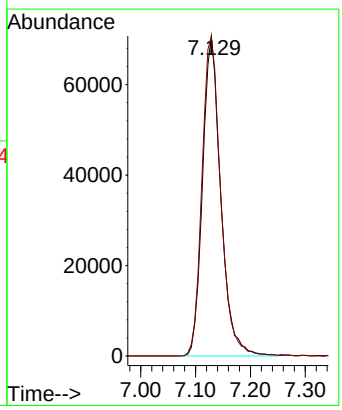
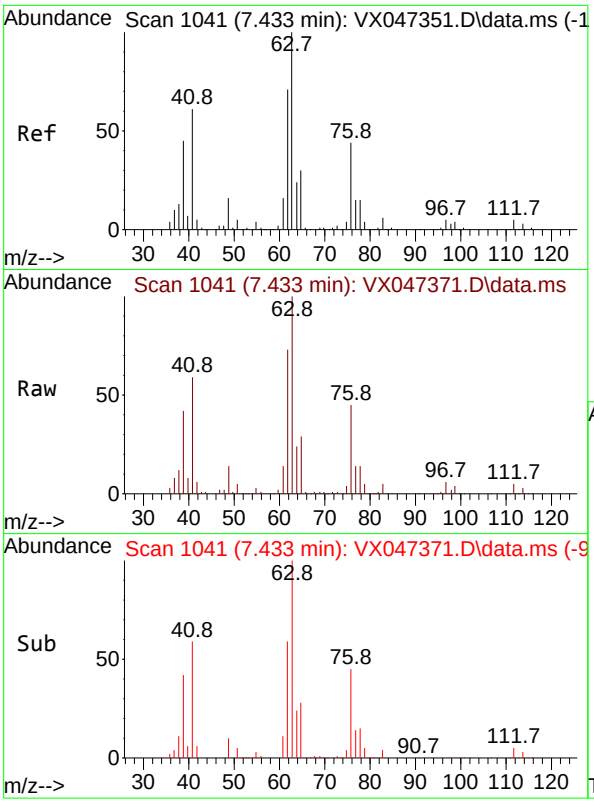


#44
Trichloroethene
Concen: 46.616 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:130 Resp: 162678

Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	198.6

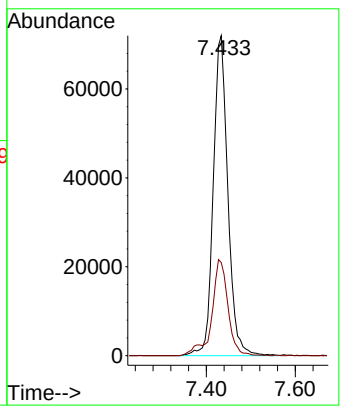




#45
1,2-Dichloropropane
Concen: 47.913 ug/l
RT: 7.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 63 Resp: 16359

Ion	Ratio	Lower	Upper
63	100		
65	29.1	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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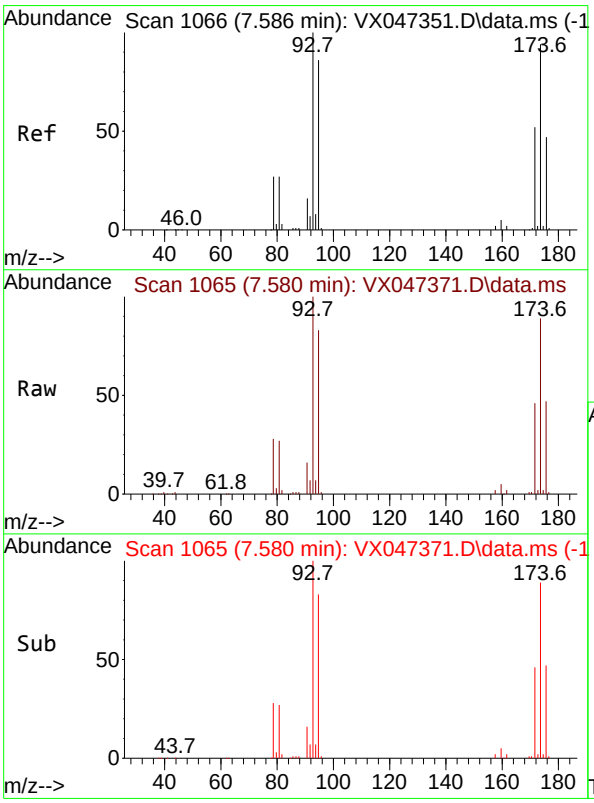
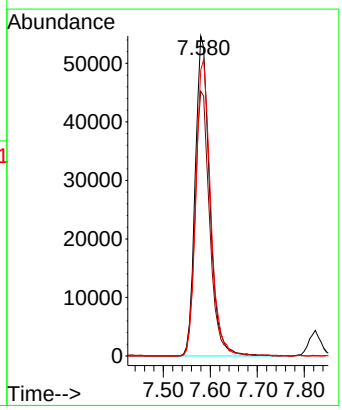
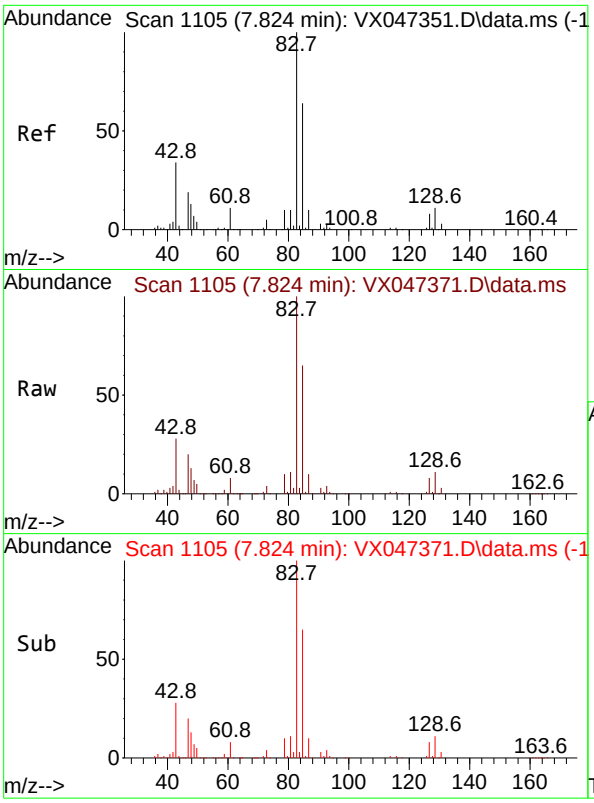


#46
Dibromomethane
Concen: 47.485 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 93 Resp: 117704

Ion	Ratio	Lower	Upper
93	100		
95	83.2	68.0	102.0
174	93.7	75.8	113.6

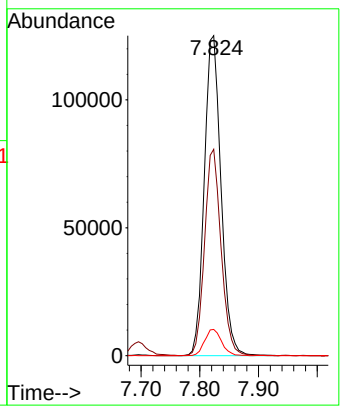




#47
Bromodichloromethane
Concen: 48.205 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 83 Resp: 24771

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.0	76.6
127	8.2	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 08/19/2025
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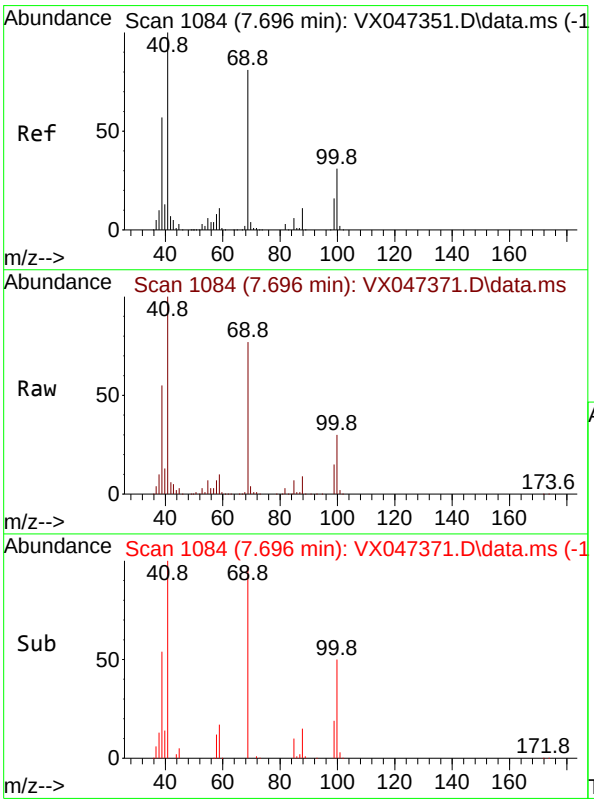
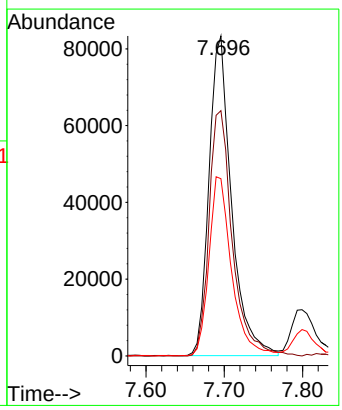
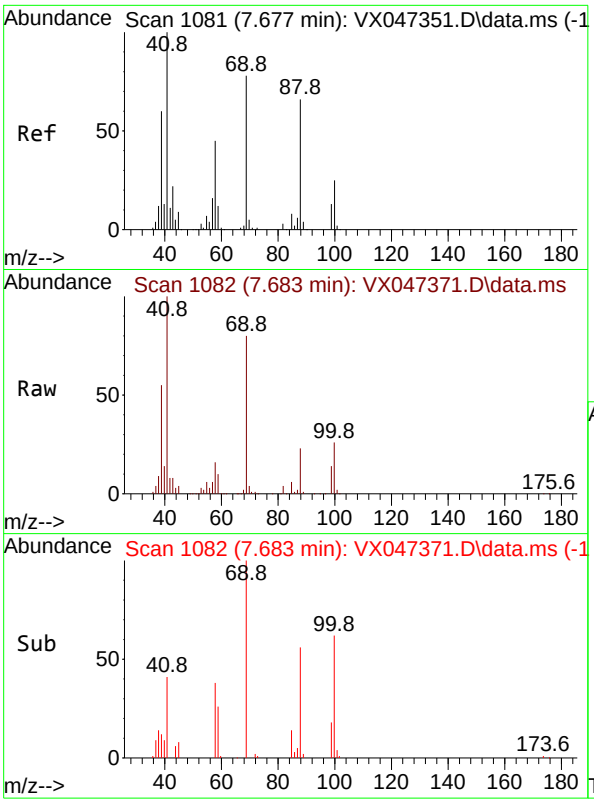


#48
Methyl methacrylate
Concen: 47.171 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 41 Resp: 166270

Ion	Ratio	Lower	Upper
41	100		
69	79.8	65.0	97.4
39	56.4	45.7	68.5





#49
1,4-Dioxane
Concen: 1013.952 ug/l
RT: 7.683 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 88 Resp: 3474

Ion	Ratio	Lower	Upper
88	100		
43	37.8	32.4	48.6
58	72.0	56.9	85.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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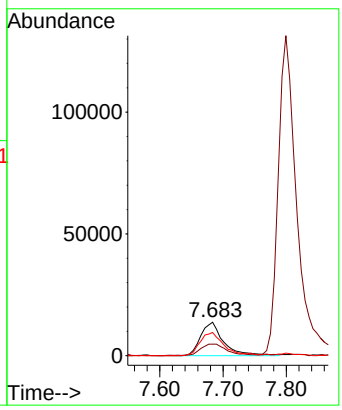
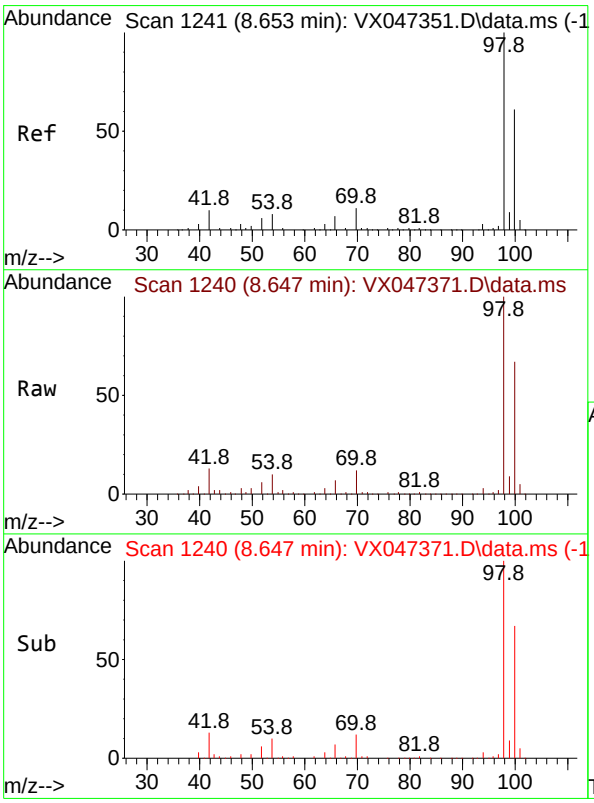
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

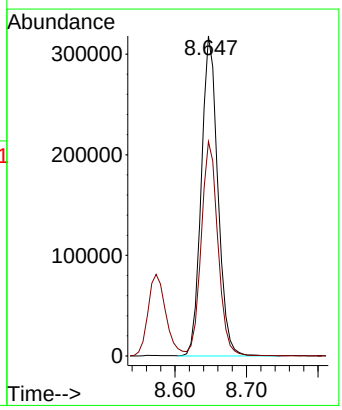


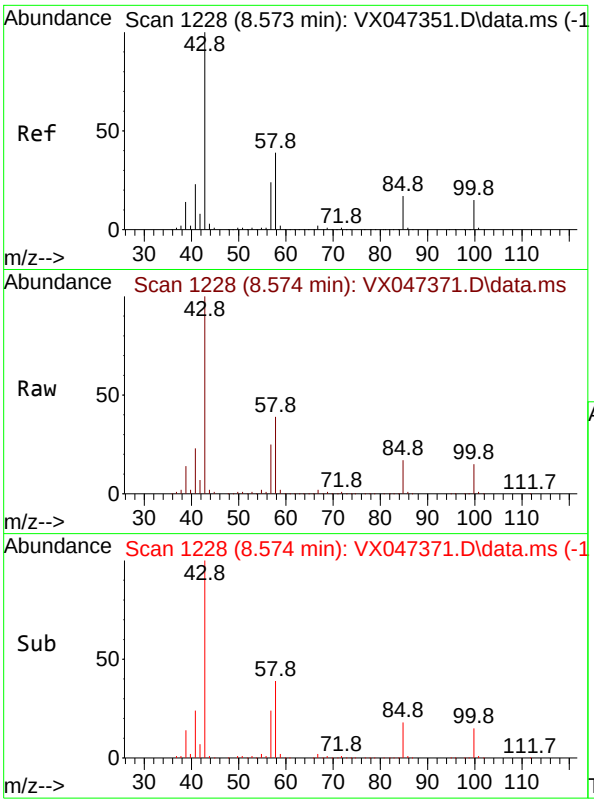


#50
Toluene-d8
Concen: 49.536 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 98 Resp: 510697

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.9	80.9

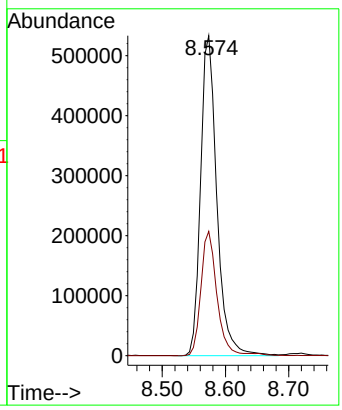




#51
4-Methyl-2-Pentanone
Concen: 243.653 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 43 Resp: 95214

Ion	Ratio	Lower	Upper
43	100		
58	38.0	31.2	46.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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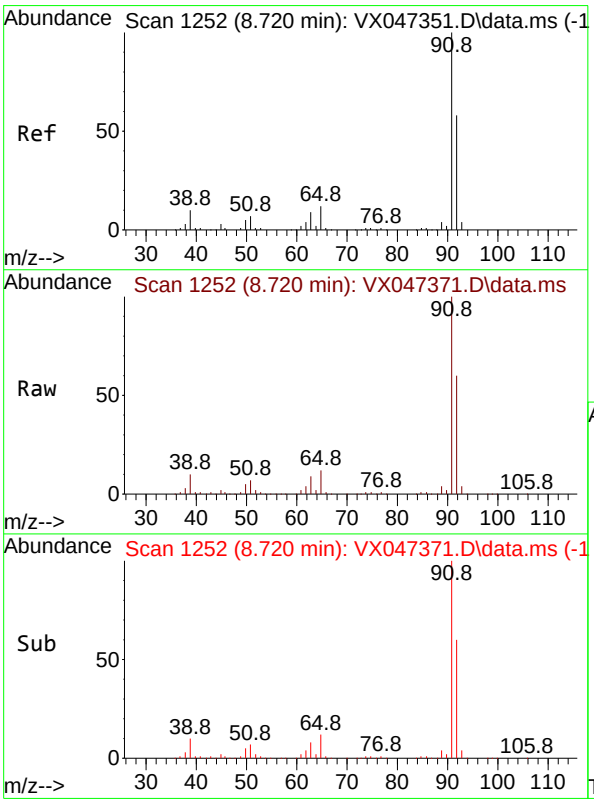
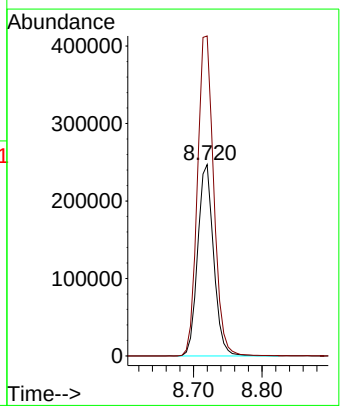
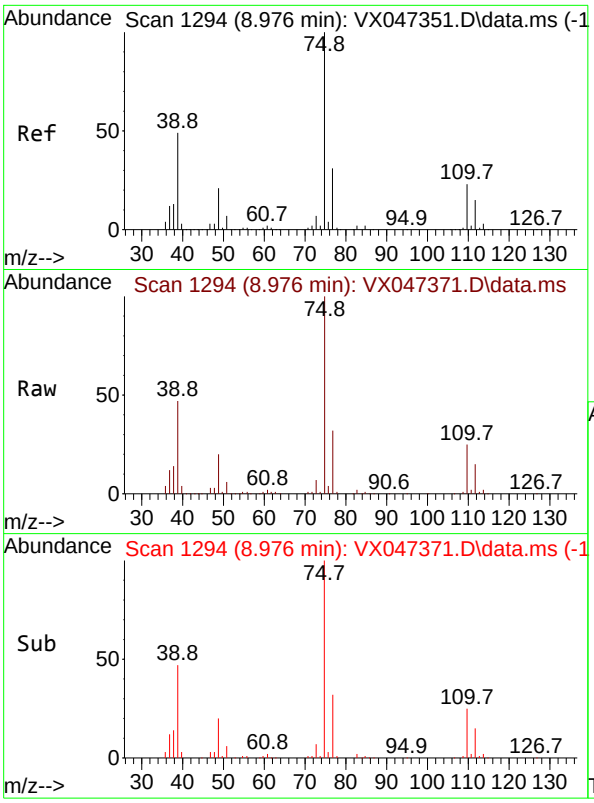


#52
Toluene
Concen: 47.503 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 92 Resp: 400051

Ion	Ratio	Lower	Upper
92	100		
91	171.2	136.3	204.5

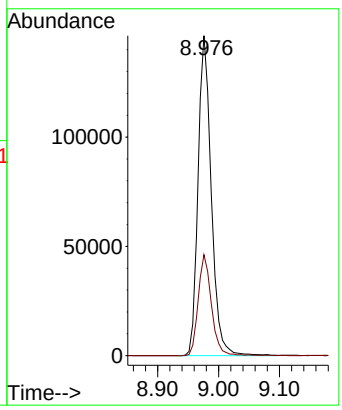




#53
t-1,3-Dichloropropene
Concen: 49.287 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 75 Resp: 22104

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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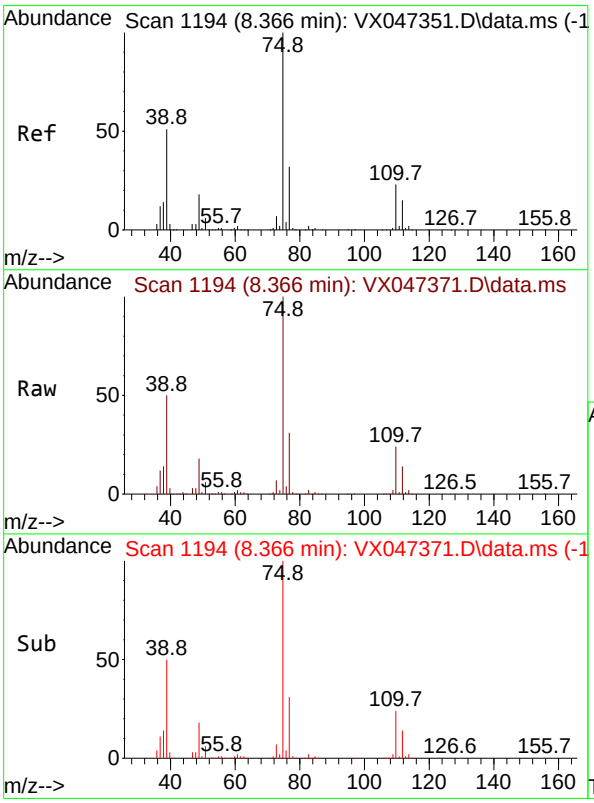
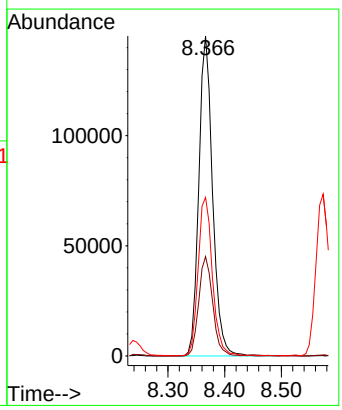
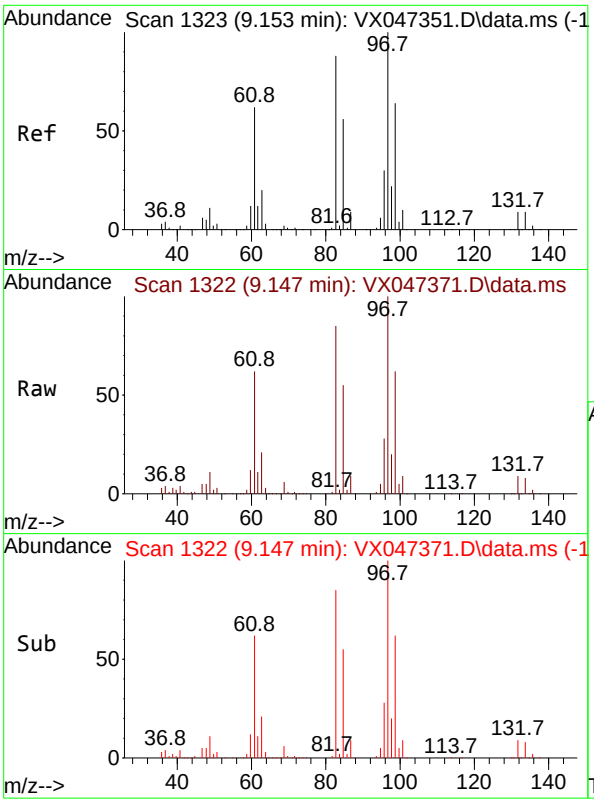


#54
cis-1,3-Dichloropropene
Concen: 48.187 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 75 Resp: 244614

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.6	38.4
39	49.5	40.9	61.3

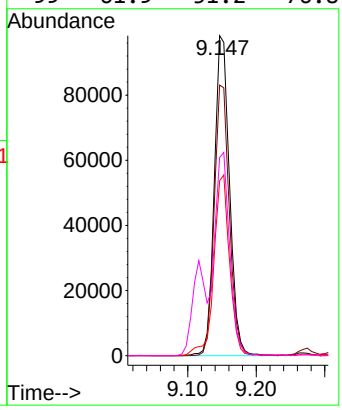




#55
1,1,2-Trichloroethane
Concen: 47.246 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 97 Resp: 15107

Ion	Ratio	Lower	Upper
97	100		
83	84.5	70.6	106.0
85	54.7	44.7	67.1
99	61.9	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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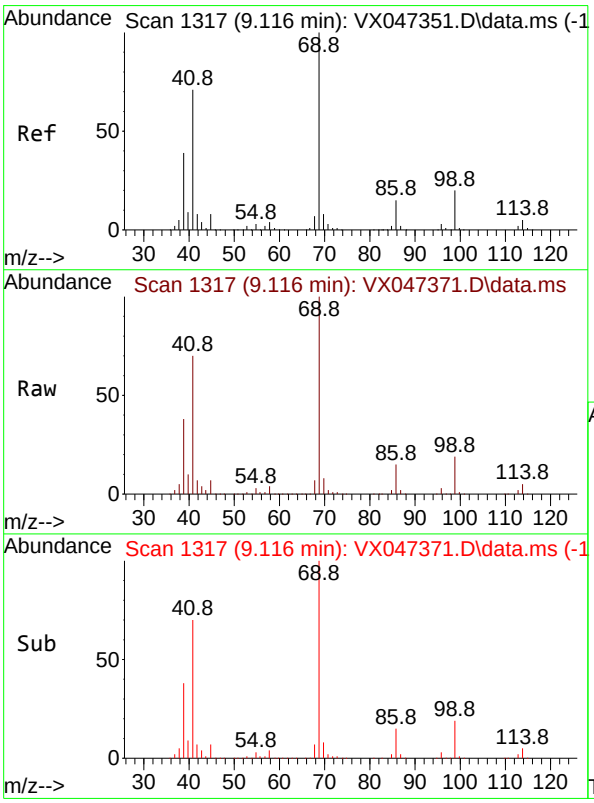
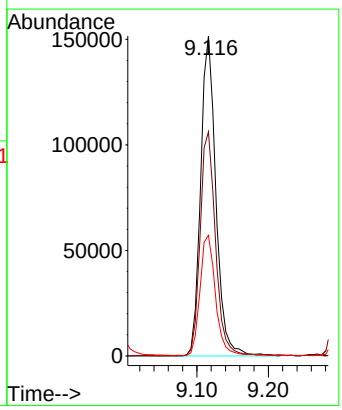
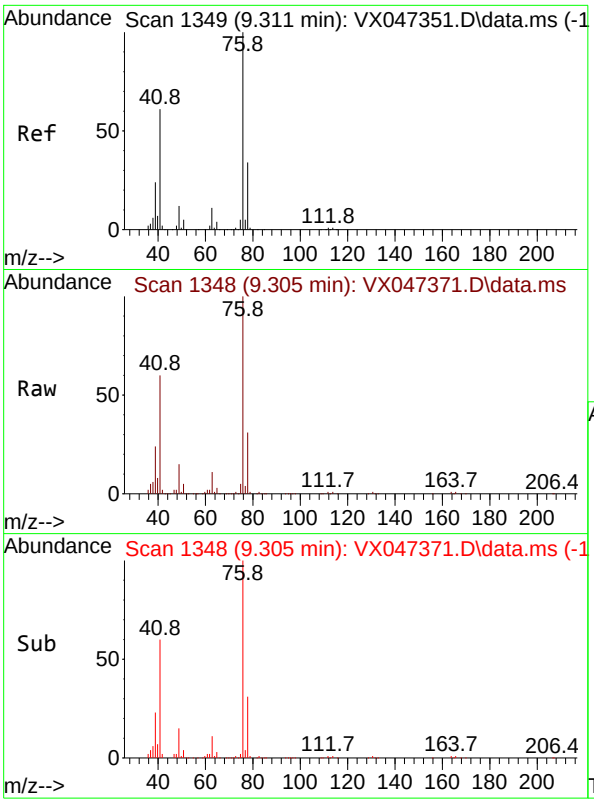


#56
Ethyl methacrylate
Concen: 47.723 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 69 Resp: 224978

Ion	Ratio	Lower	Upper
69	100		
41	70.5	55.3	82.9
39	38.3	30.2	45.2

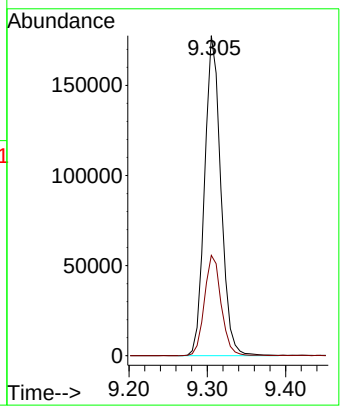




#57
1,3-Dichloropropane
Concen: 46.880 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 76 Resp: 25542

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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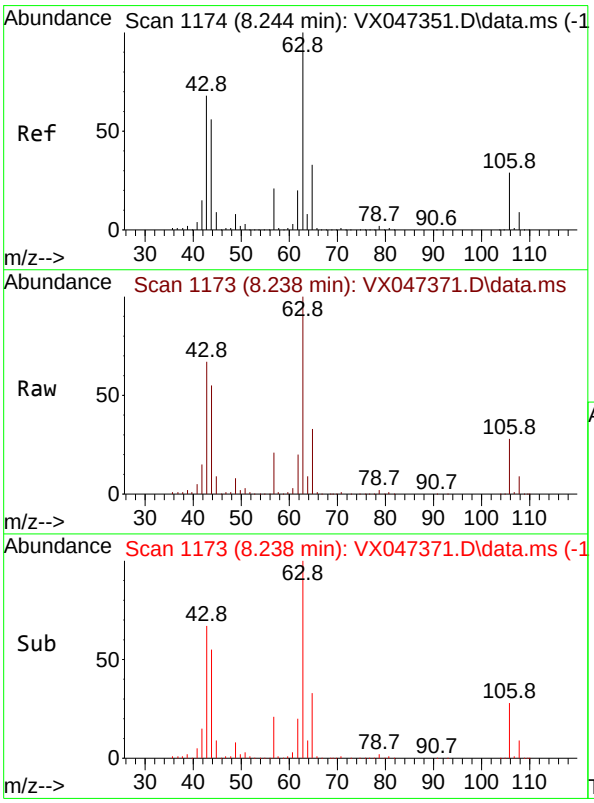
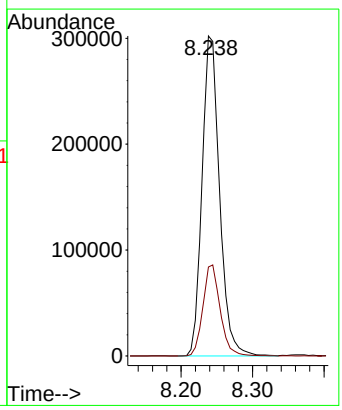
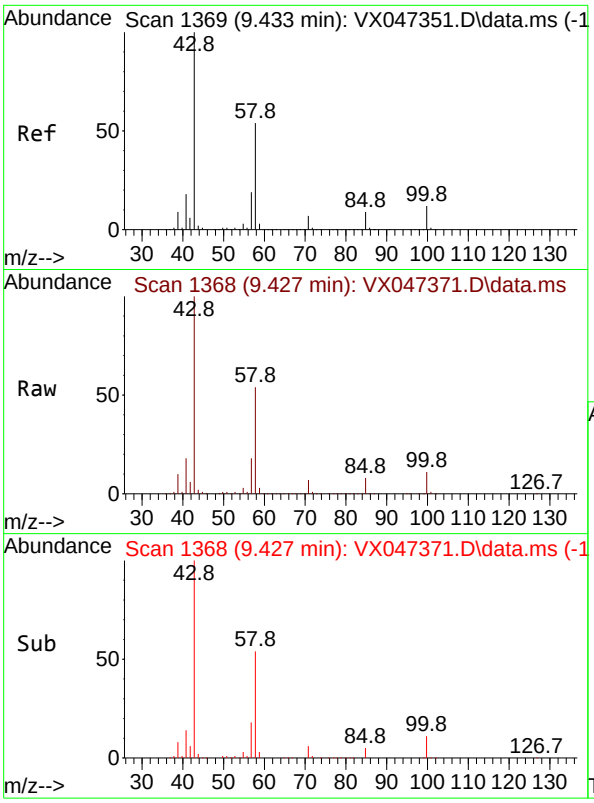


#58
2-Chloroethyl Vinyl ether
Concen: 229.244 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 63 Resp: 514434

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.8	34.2





#59
2-Hexanone
Concen: 238.139 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 43 Resp: 64371

Ion	Ratio	Lower	Upper
43	100		
58	53.6	26.9	80.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 08/19/2025
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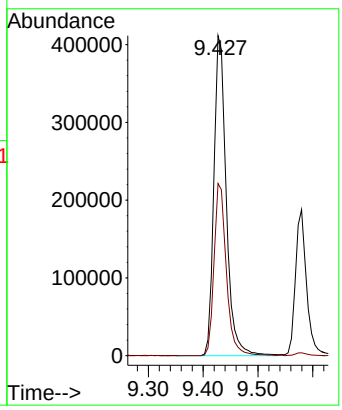
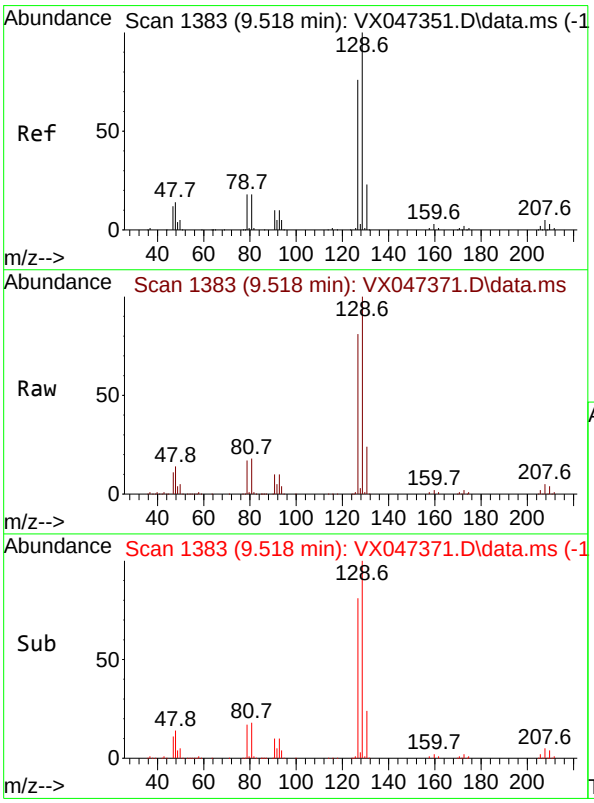
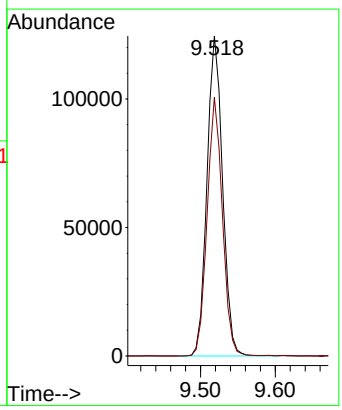


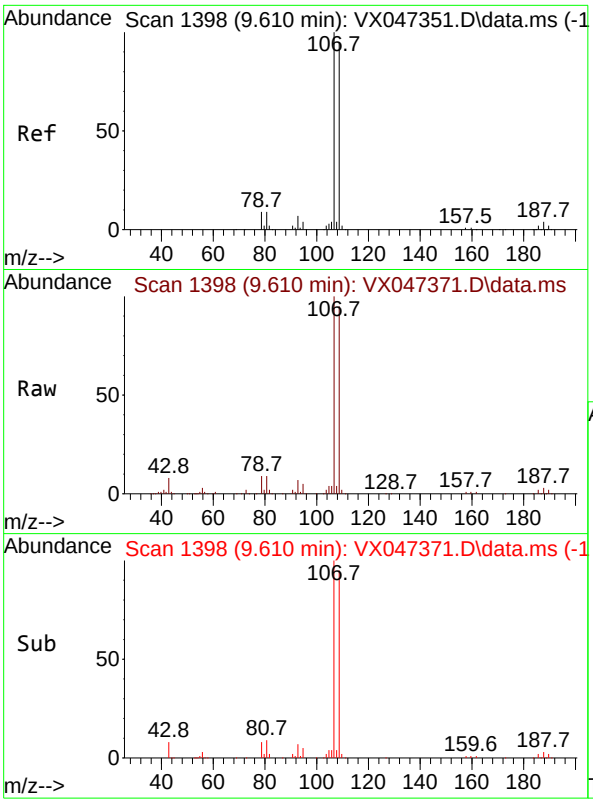


#60
Dibromochloromethane
Concen: 47.510 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:129 Resp: 180536

Ion	Ratio	Lower	Upper
129	100		
127	79.4	38.9	116.6

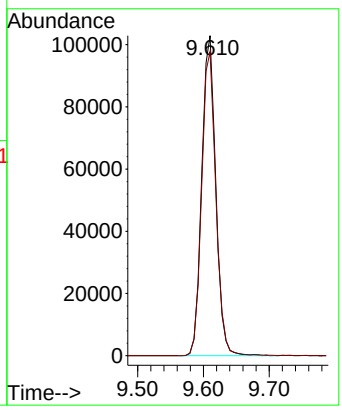




#61
1,2-Dibromoethane
Concen: 46.327 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:107 Resp: 15275

Ion	Ratio	Lower	Upper
107	100		
109	96.1	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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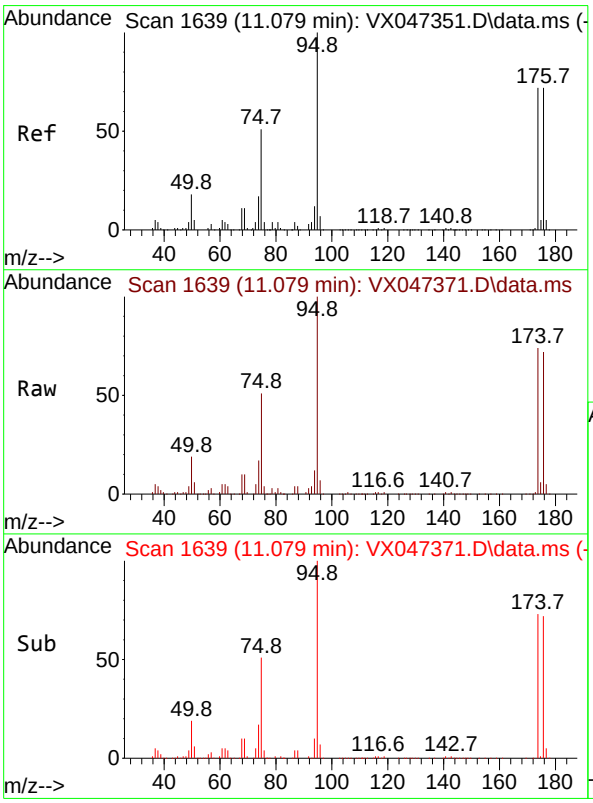
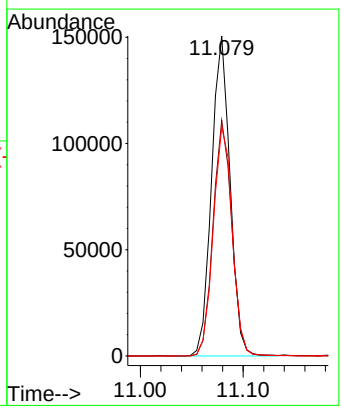
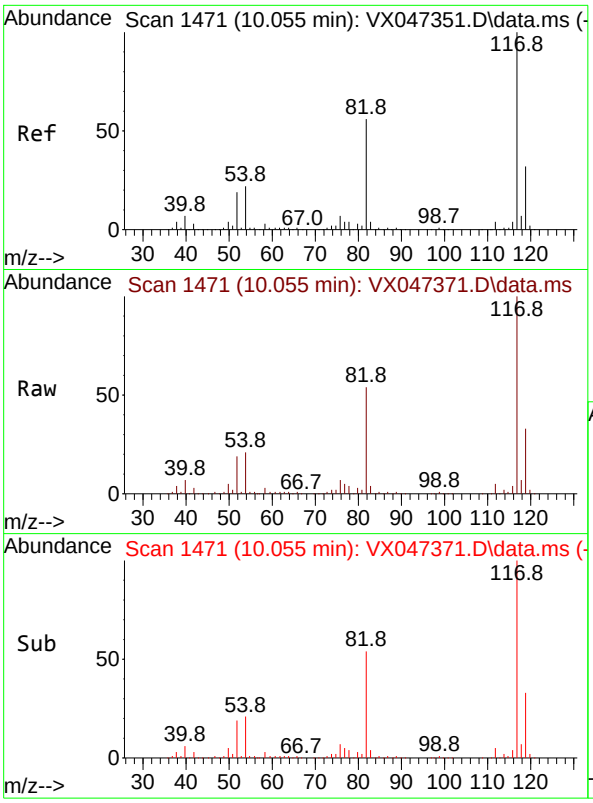


#62
4-Bromofluorobenzene
Concen: 49.495 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 95 Resp: 188302

Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	148.0
176	73.5	0.0	145.4

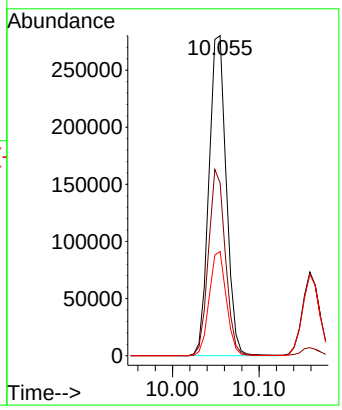




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:117 Resp: 38956

Ion	Ratio	Lower	Upper
117	100		
82	54.0	45.0	67.4
119	32.6	25.8	38.8



Instrument :
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ClientSampleId :
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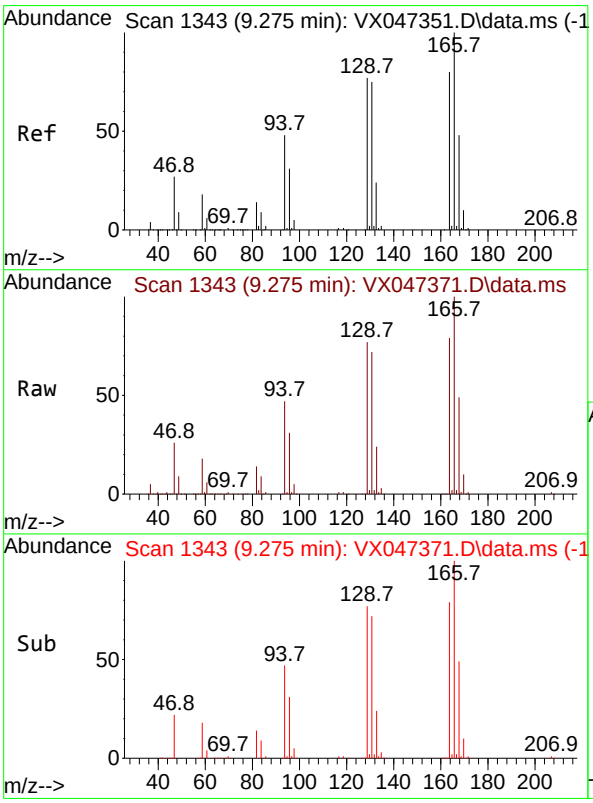
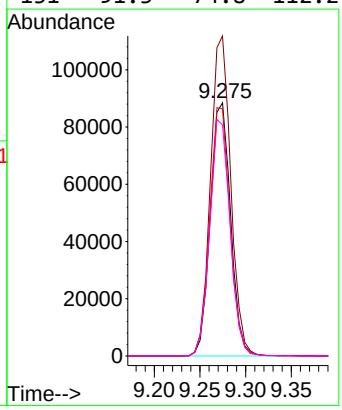
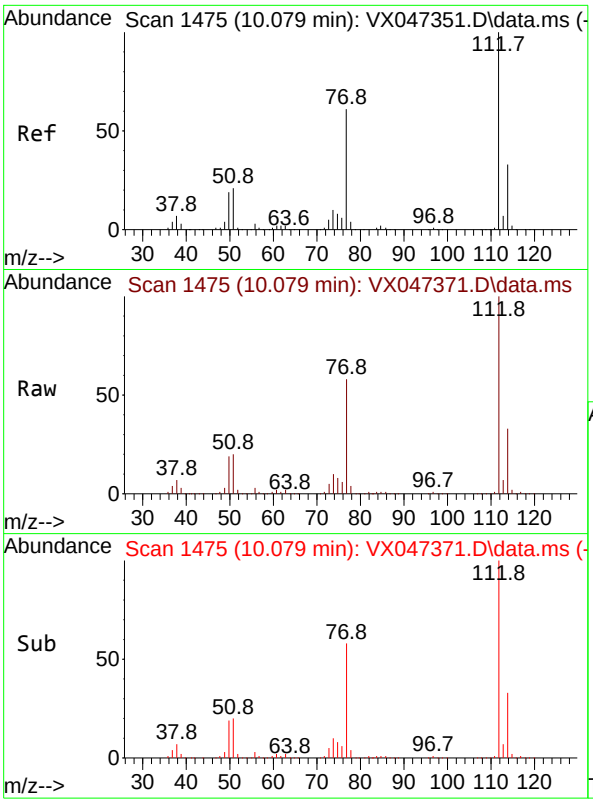


#64
Tetrachloroethene
Concen: 48.259 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:164 Resp: 135984

Ion	Ratio	Lower	Upper
164	100		
166	126.4	100.3	150.5
129	97.7	77.7	116.5
131	91.3	74.8	112.2

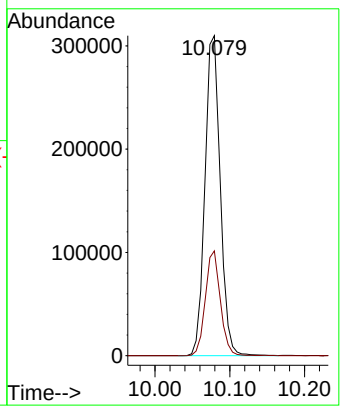




#65
Chlorobenzene
Concen: 47.514 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:112 Resp: 43986

Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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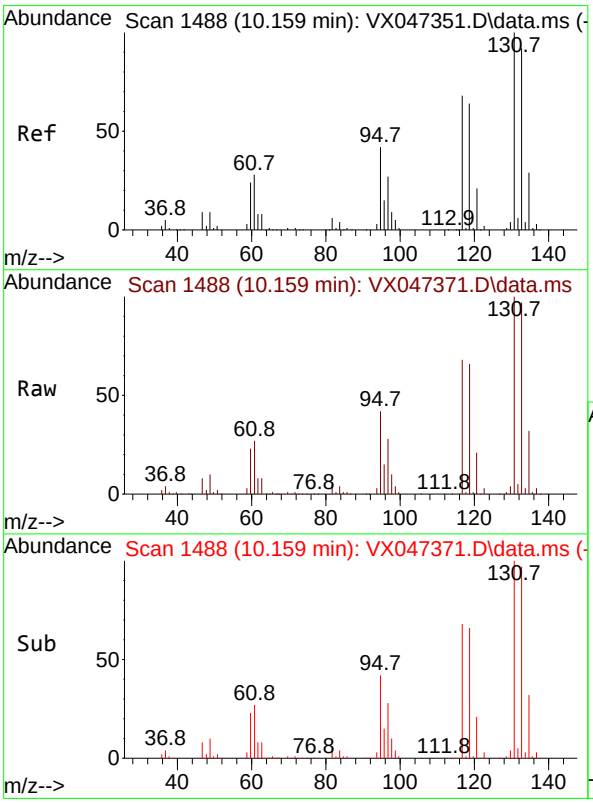
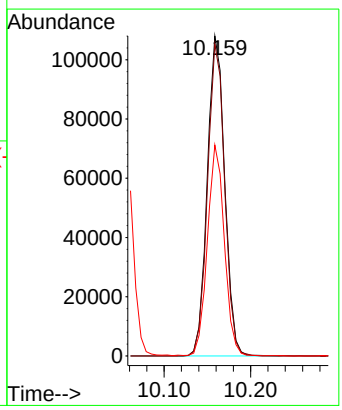
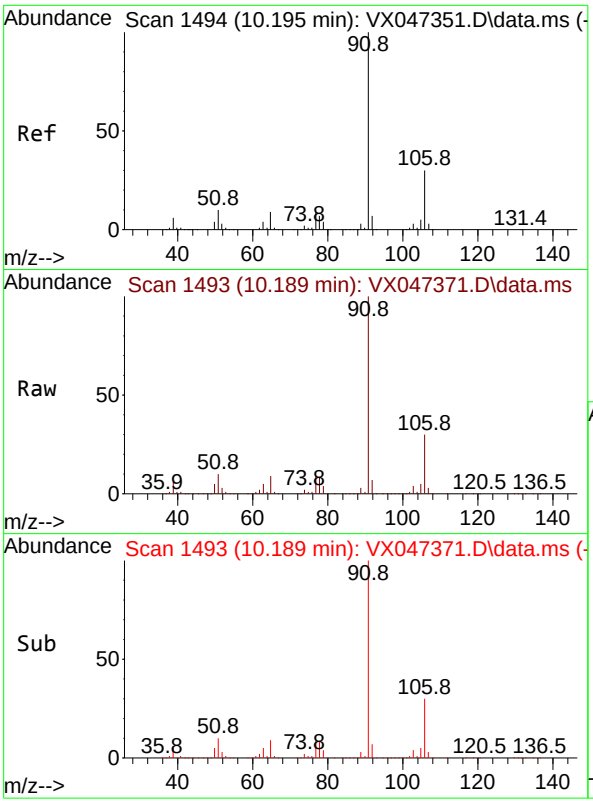


#66
1,1,1,2-Tetrachloroethane
Concen: 48.384 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:131 Resp: 151414

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.6	142.9
119	63.8	32.3	96.8

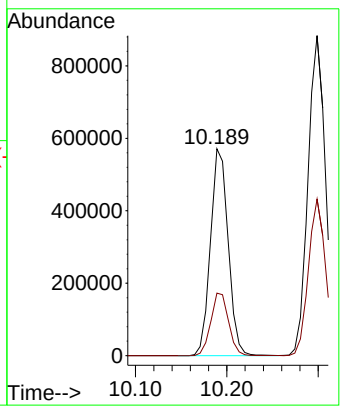




#67
Ethyl Benzene
Concen: 48.124 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 91 Resp: 76679

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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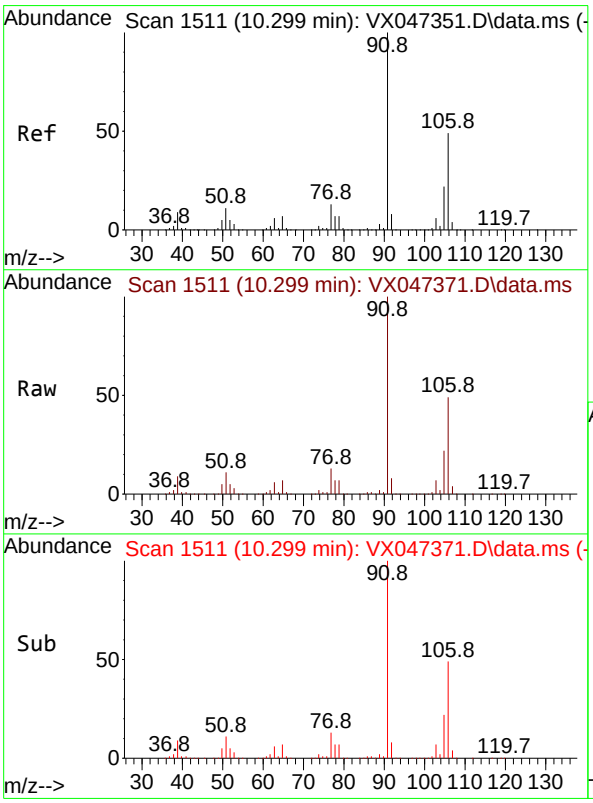
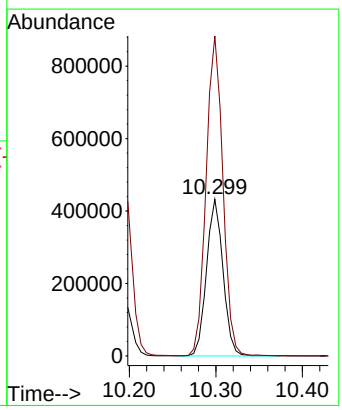
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

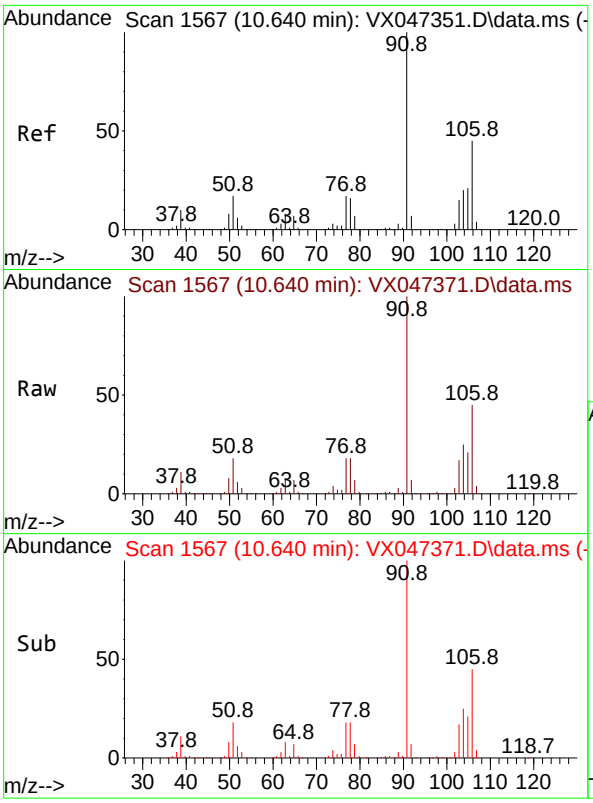


#68
m/p-Xylenes
Concen: 96.341 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:106 Resp: 572388

Ion	Ratio	Lower	Upper
106	100		
91	208.0	164.7	247.1

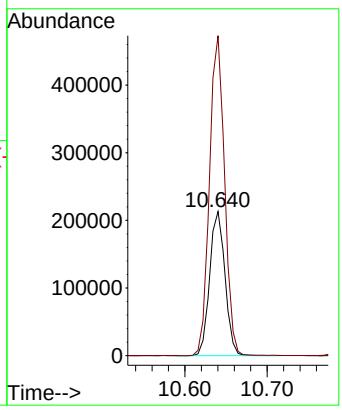




#69
o-Xylene
Concen: 48.267 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:106 Resp: 27596

Ion	Ratio	Lower	Upper
106	100		
91	219.5	110.6	331.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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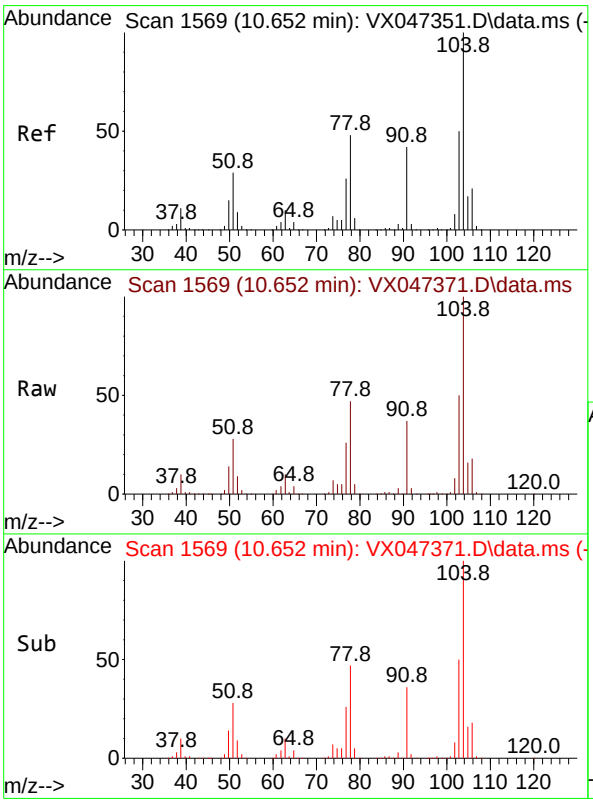
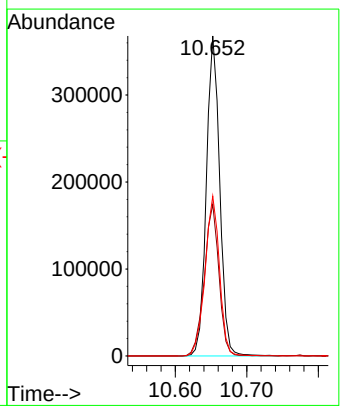
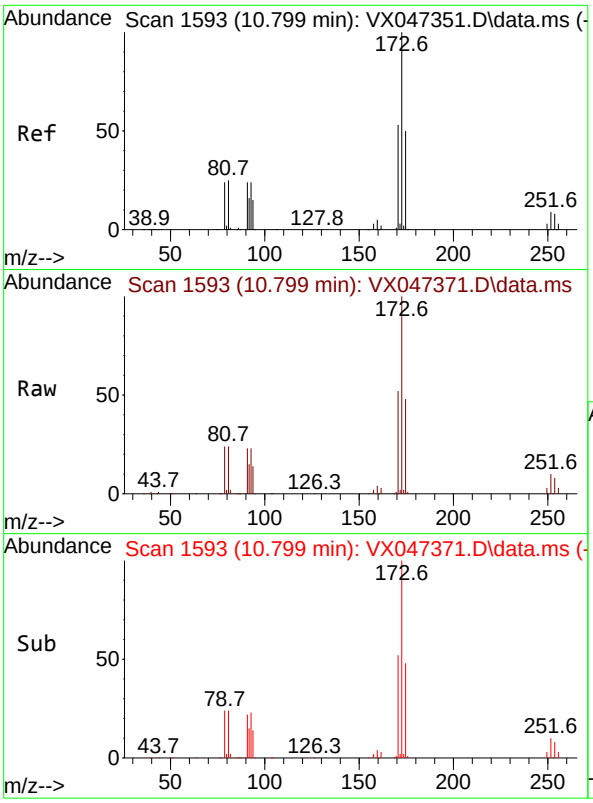


#70
Styrene
Concen: 49.483 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:104 Resp: 478038

Ion	Ratio	Lower	Upper
104	100		
78	52.0	41.8	62.8
103	54.2	43.6	65.4

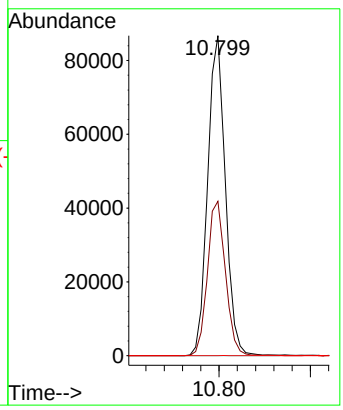




#71
Bromoform
Concen: 49.276 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:173 Resp: 11584

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.4	73.4
254	0.0	0.1	0.1



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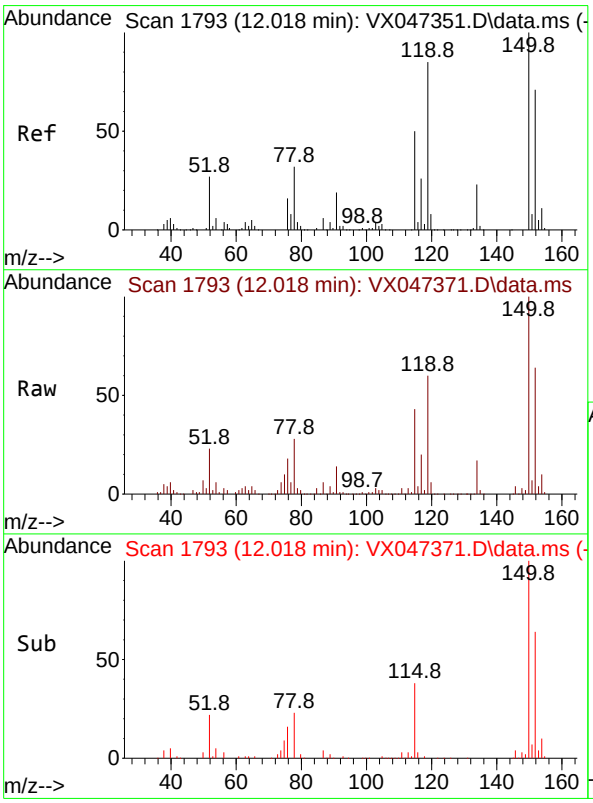
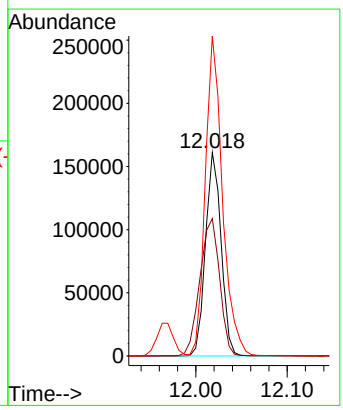
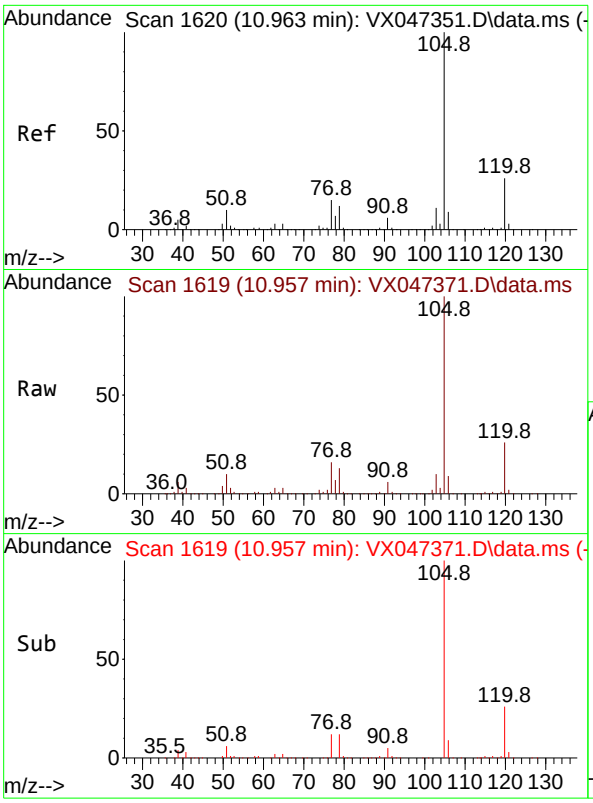


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:152 Resp: 190181

Ion	Ratio	Lower	Upper
152	100		
115	85.8	44.6	133.8
150	173.9	0.0	349.8

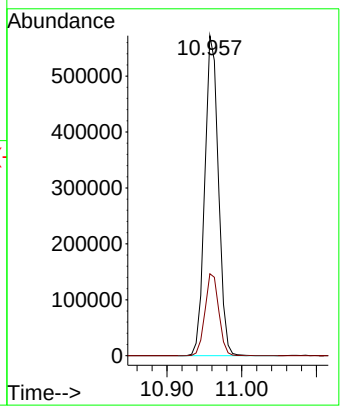




#73
Isopropylbenzene
Concen: 48.628 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:105 Resp: 72370

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6



Instrument :
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ClientSampleId :
VSTDCCC050

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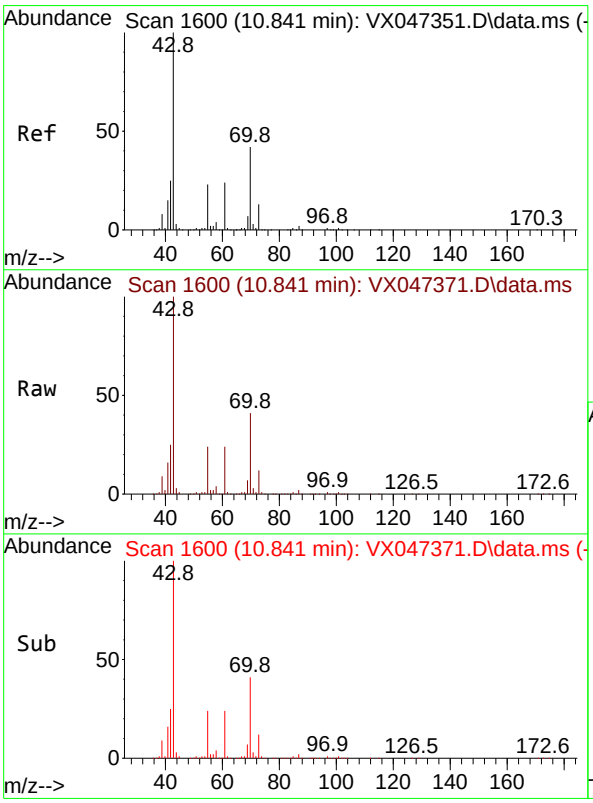
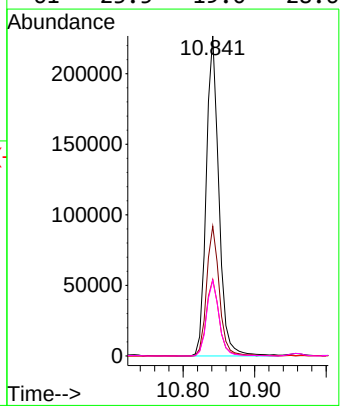
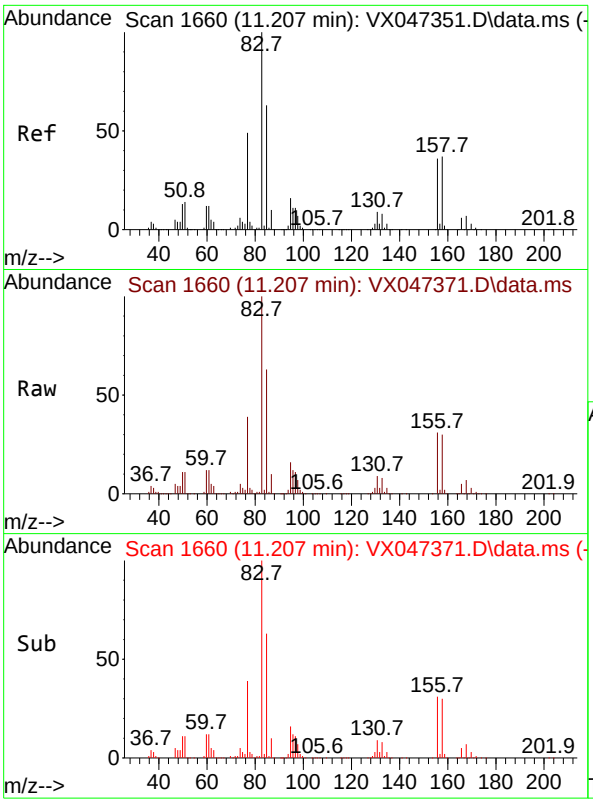


#74
N-amyl acetate
Concen: 49.291 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 43 Resp: 278569

Ion	Ratio	Lower	Upper
43	100		
70	40.5	33.1	49.7
55	24.3	19.0	28.6
61	23.5	19.0	28.6

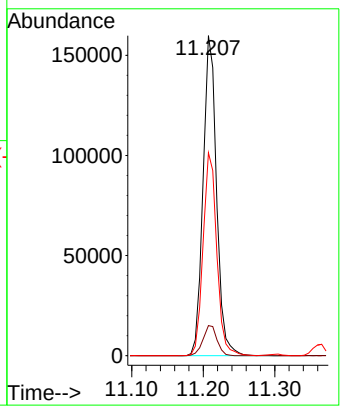




#75
1,1,2,2-Tetrachloroethane
Concen: 47.887 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 83 Resp: 20924

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	15.0
85	64.4	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
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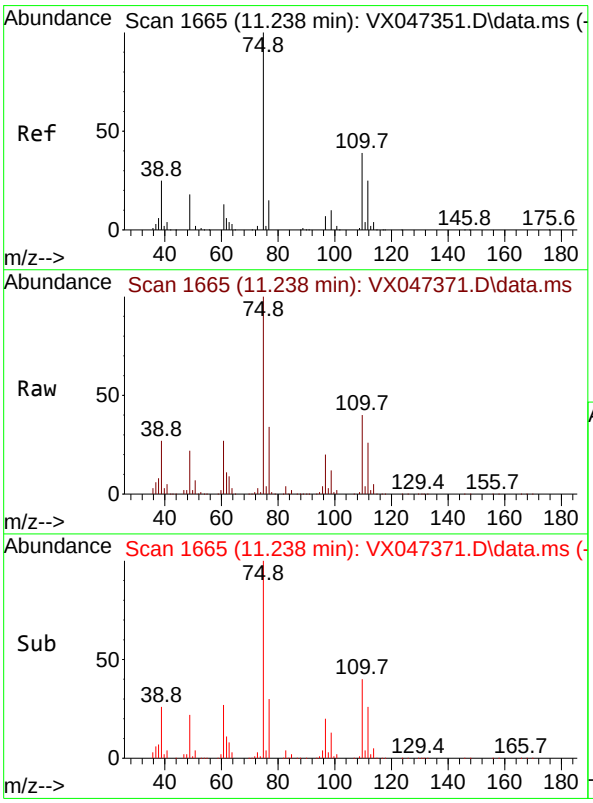
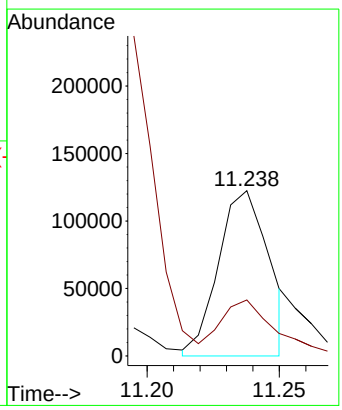
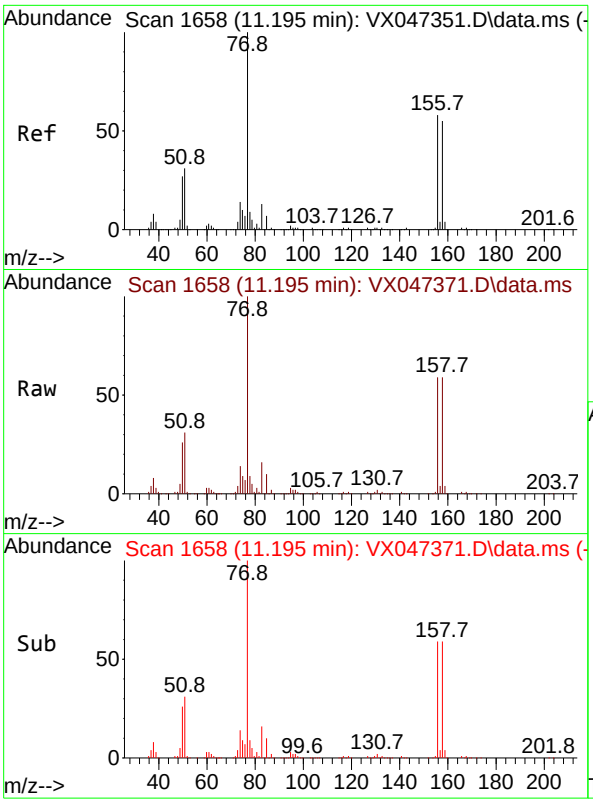


#76
1,2,3-Trichloropropane
Concen: 46.476 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 75 Resp: 162113

Ion	Ratio	Lower	Upper
75	100		
77	37.6	19.4	58.2

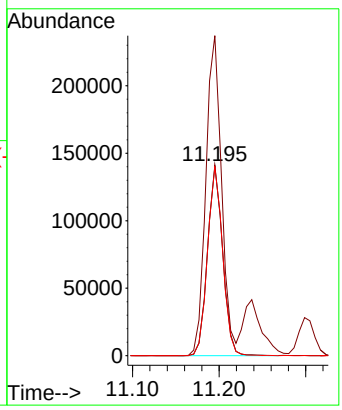




#77
Bromobenzene
Concen: 47.261 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:156 Resp: 17175

Ion	Ratio	Lower	Upper
156	100		
77	173.9	86.3	258.9
158	99.3	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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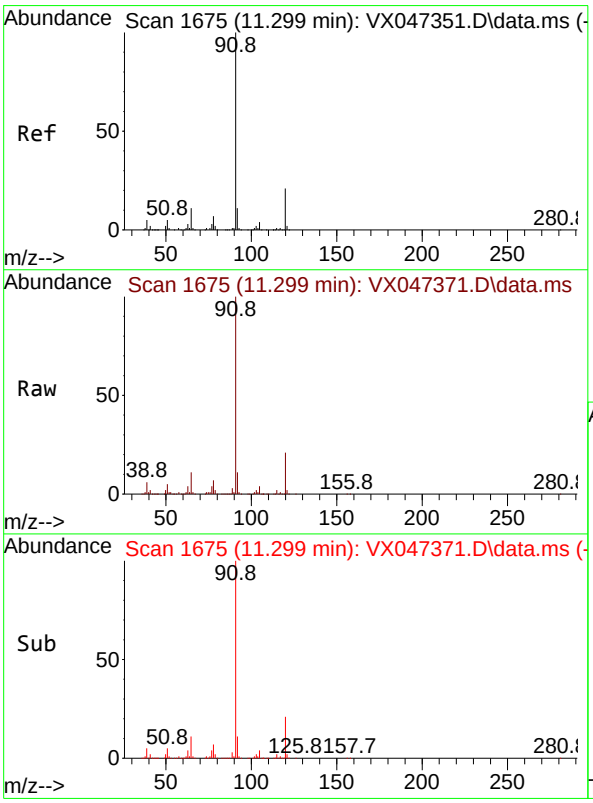
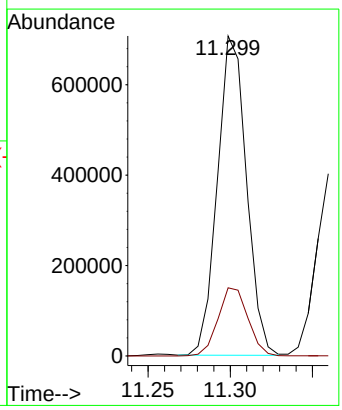
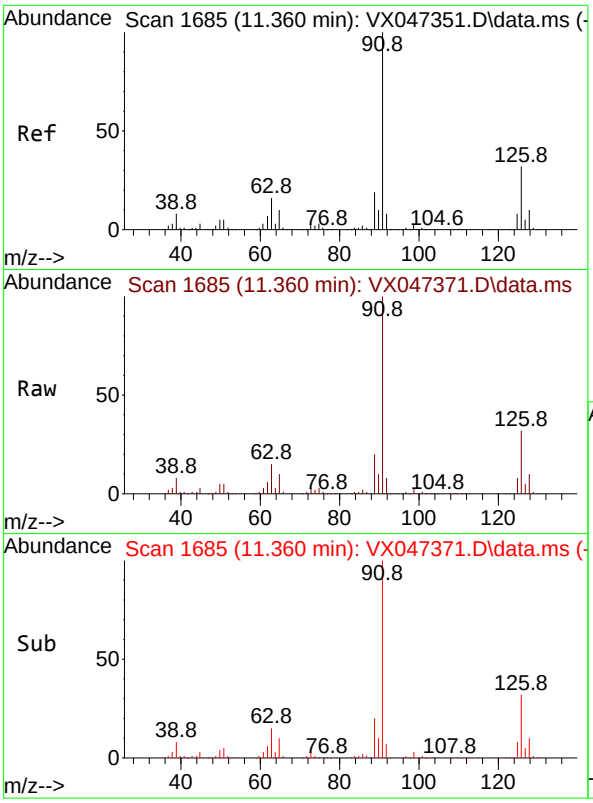


#78
n-propylbenzene
Concen: 48.892 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 91 Resp: 869019

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0

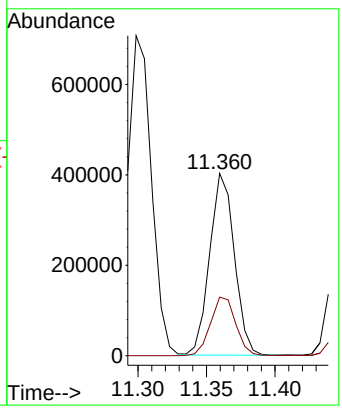




#79
2-Chlorotoluene
Concen: 46.898 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 91 Resp: 50390

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.7	50.1



Instrument :
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ClientSampleId :
VSTDCCC050

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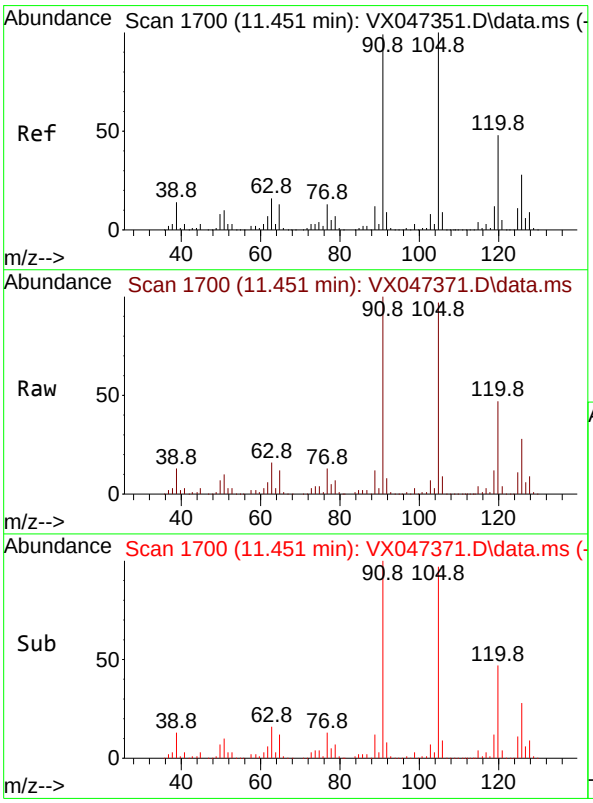
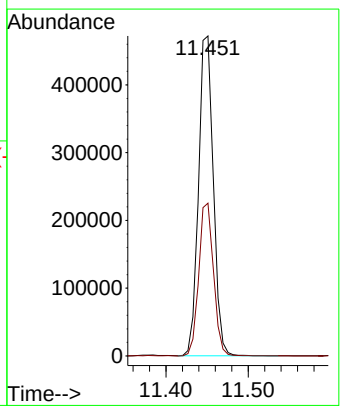
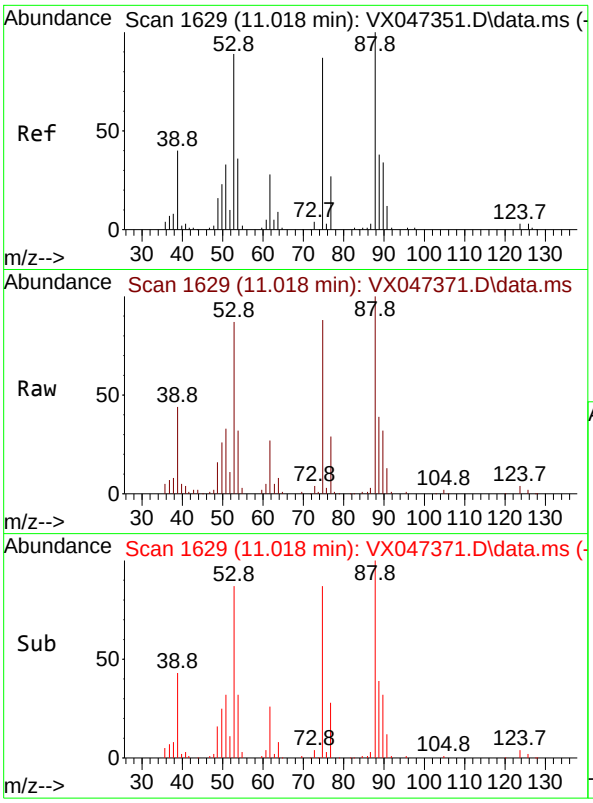


#80
1,3,5-Trimethylbenzene
Concen: 48.241 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:105 Resp: 590722

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.9	71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 33.692 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 75 Resp: 2459

Ion	Ratio	Lower	Upper
75	100		
53	105.0	85.2	127.8
89	46.1	36.7	55.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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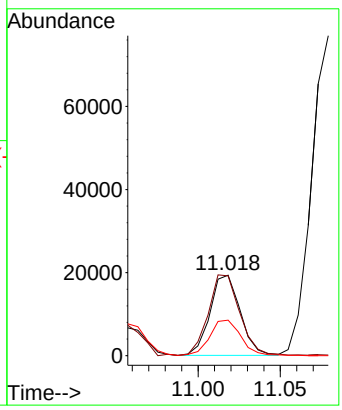
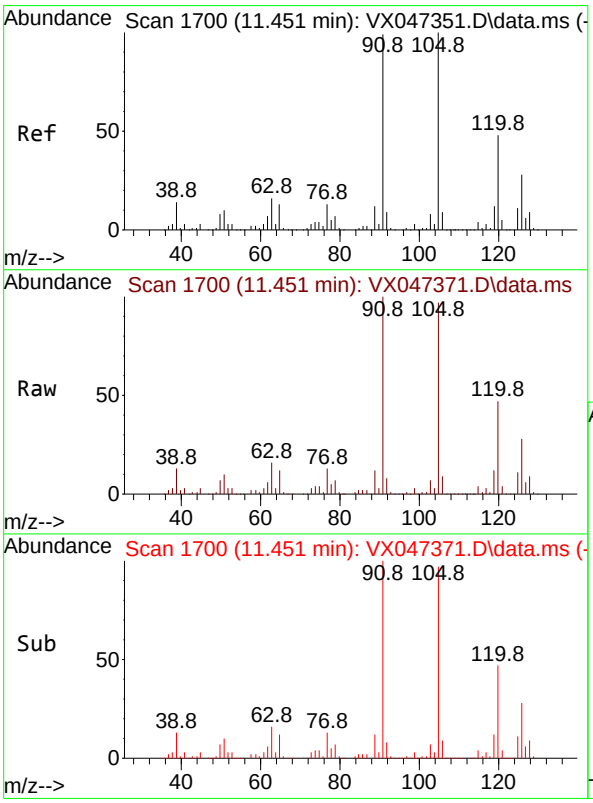
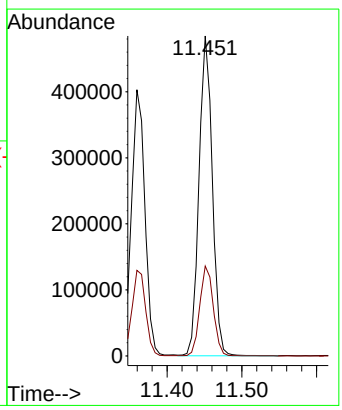


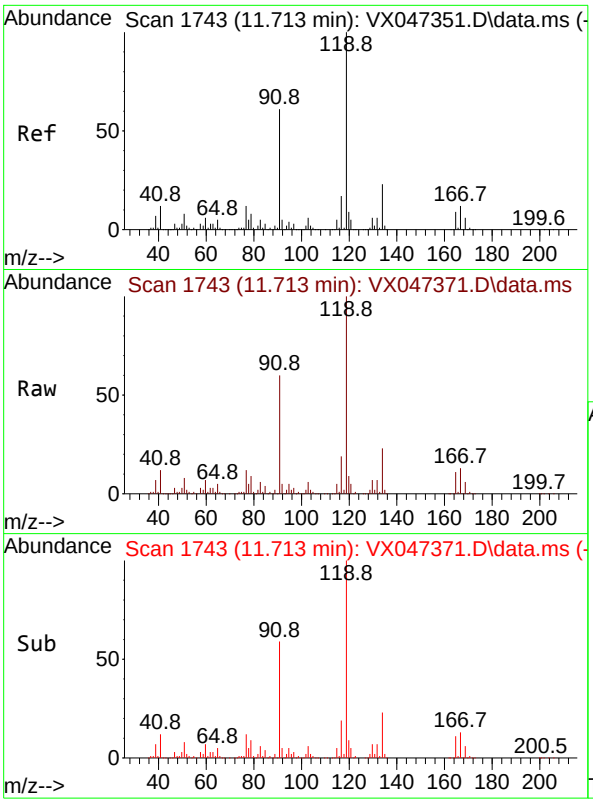


#82
4-Chlorotoluene
Concen: 47.174 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 91 Resp: 597497

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.4	43.0

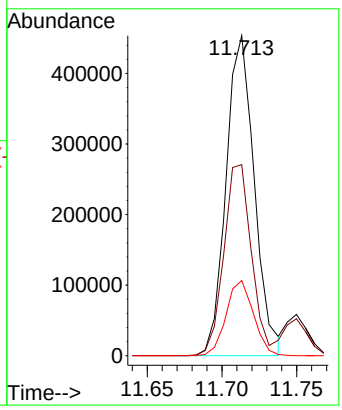




#83
tert-Butylbenzene
Concen: 48.866 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:119 Resp: 59698

Ion	Ratio	Lower	Upper
119	100		
91	58.0	29.1	87.4
134	22.7	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
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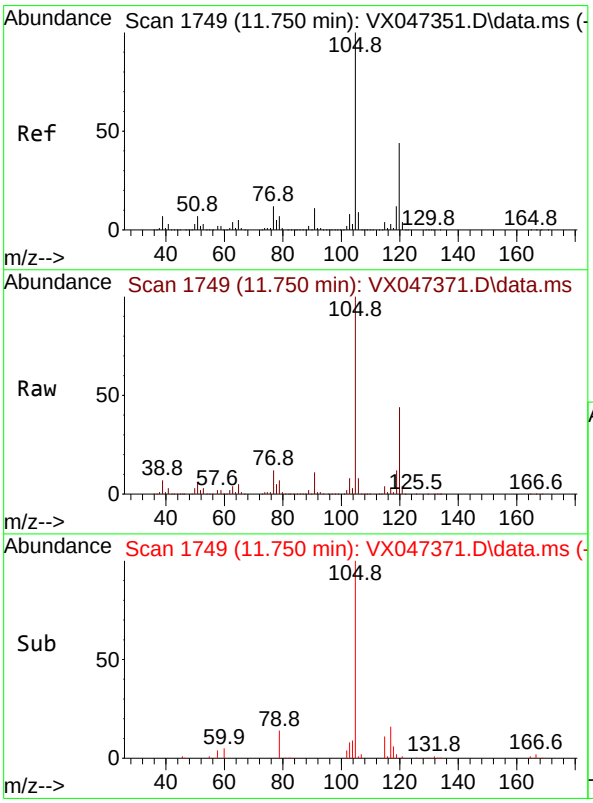
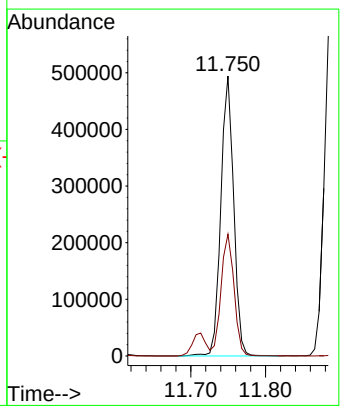
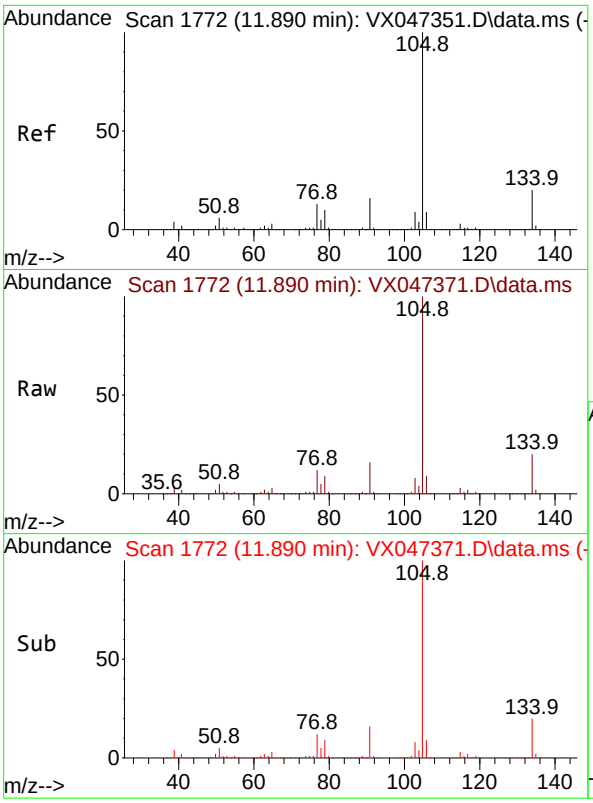


#84
1,2,4-Trimethylbenzene
Concen: 48.380 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:105 Resp: 592440

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.9	65.7

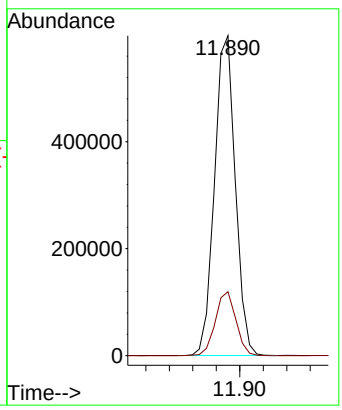




#85
sec-Butylbenzene
Concen: 48.547 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:105 Resp: 73511

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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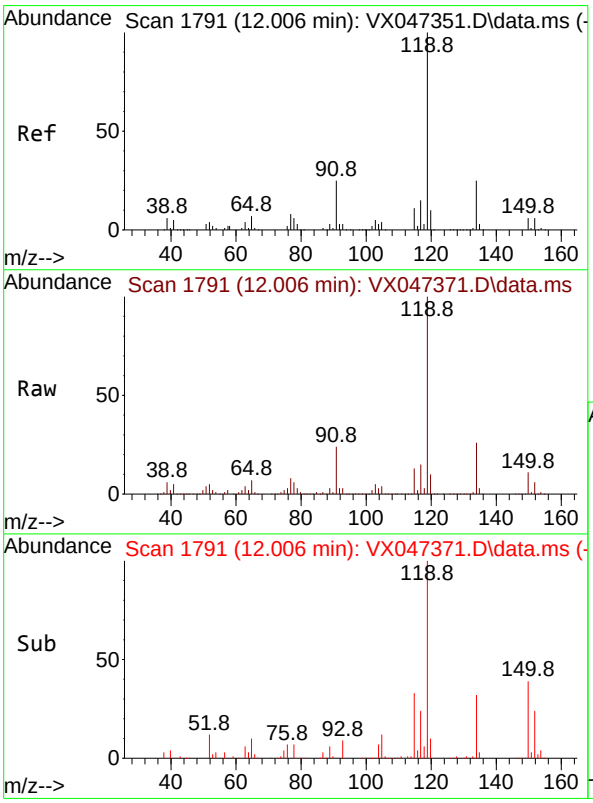
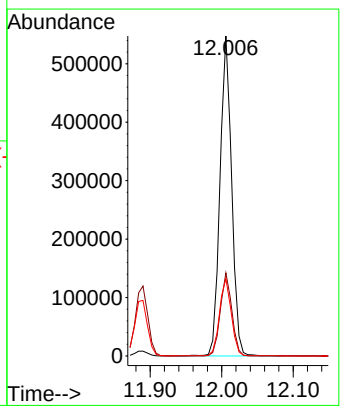
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

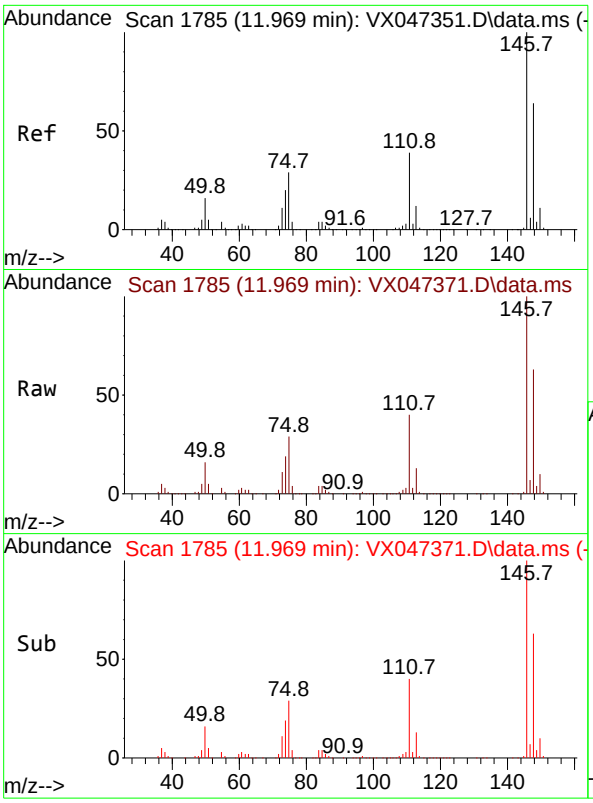


#86
p-Isopropyltoluene
Concen: 48.304 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:119 Resp: 618942

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.8	38.4
91	24.4	12.4	37.4

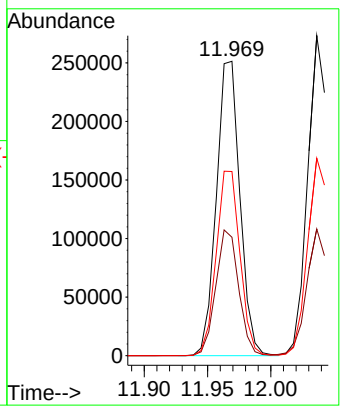




#87
1,3-Dichlorobenzene
Concen: 46.819 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:146 Resp: 32505

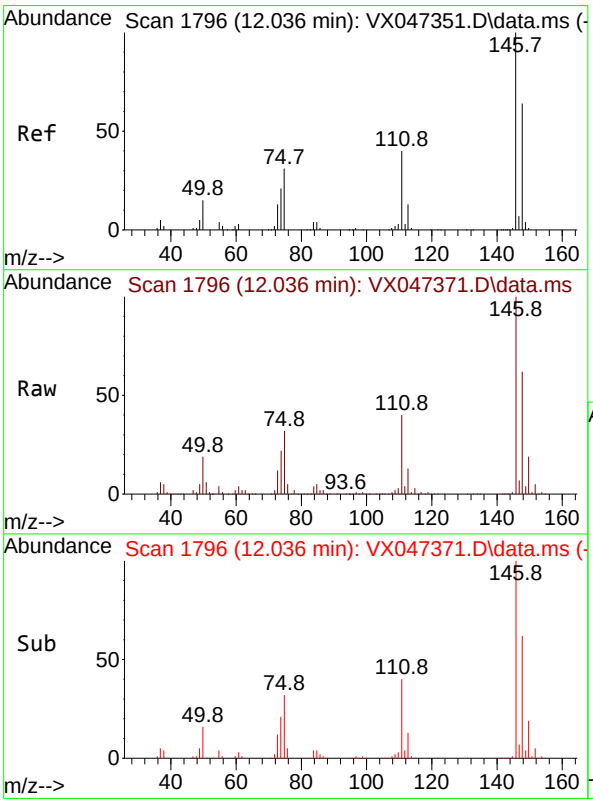
Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.6	61.8
148	63.3	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

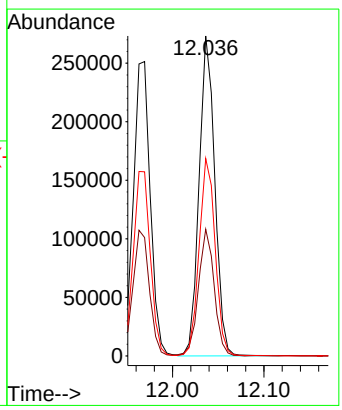
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

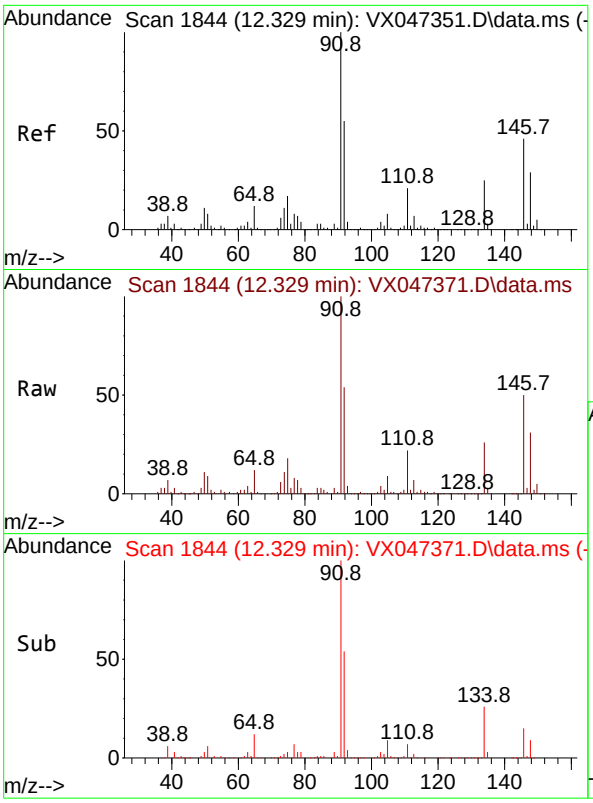


#88
1,4-Dichlorobenzene
Concen: 45.783 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:146 Resp: 326917

Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.4	61.2
148	63.3	31.7	95.1

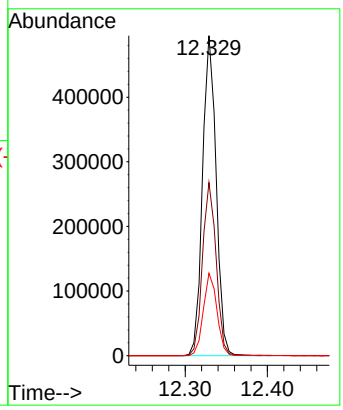




#89
n-Butylbenzene
Concen: 47.792 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 91 Resp: 56958

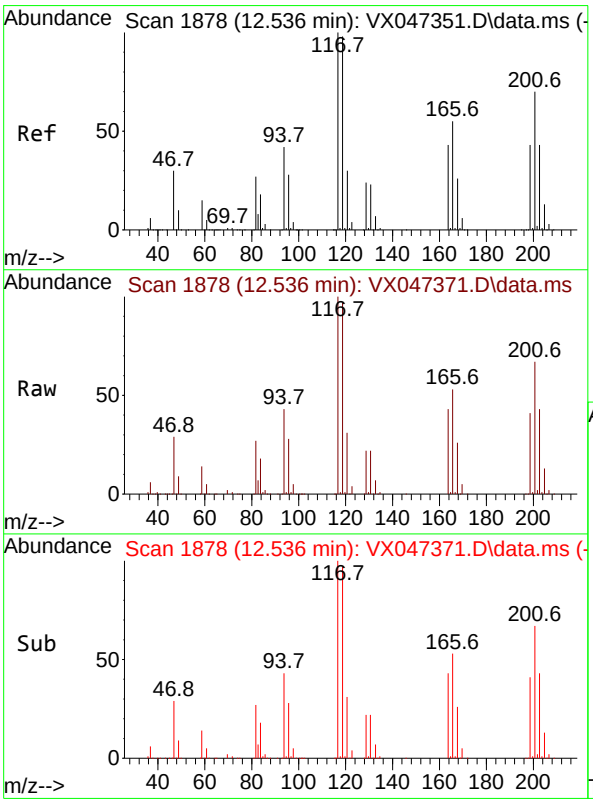
Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.2	81.5
134	25.7	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

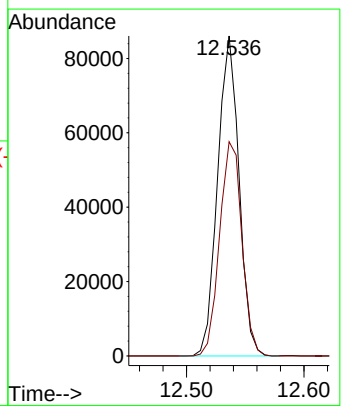
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

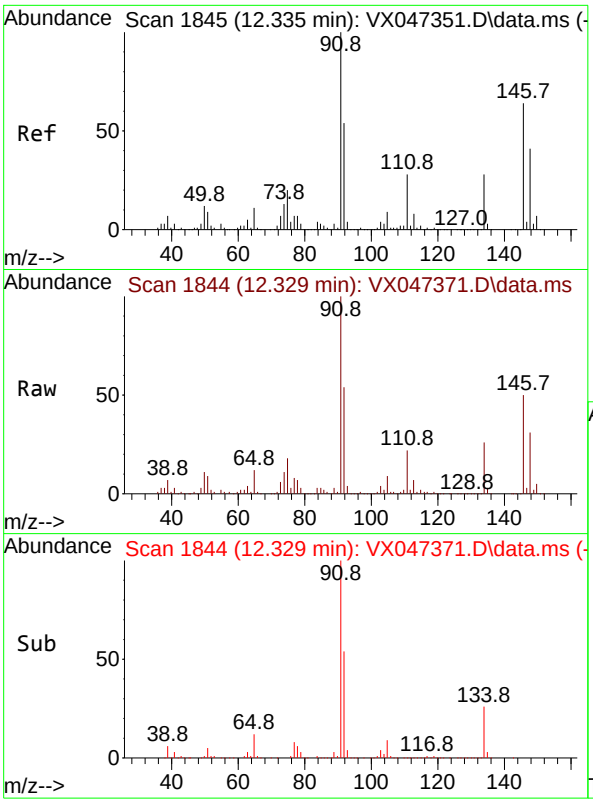


#90
Hexachloroethane
Concen: 48.462 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:117 Resp: 108936

Ion	Ratio	Lower	Upper
117	100		
201	69.8	35.1	105.3

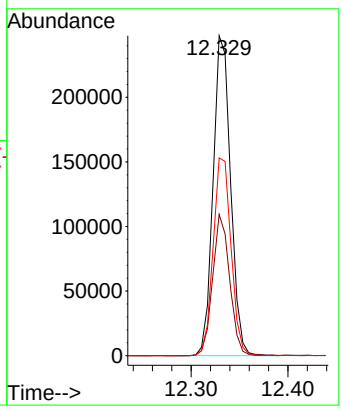




#91
1,2-Dichlorobenzene
Concen: 47.206 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:146 Resp: 31108

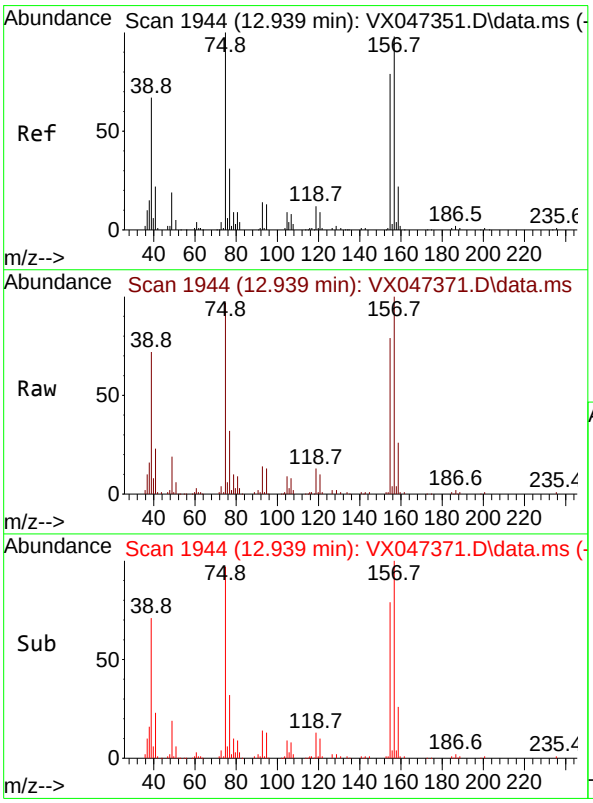
Ion	Ratio	Lower	Upper
146	100		
111	43.0	22.1	66.1
148	63.6	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

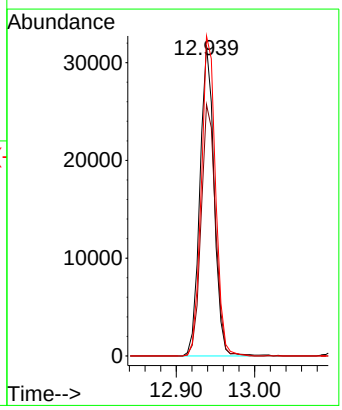
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

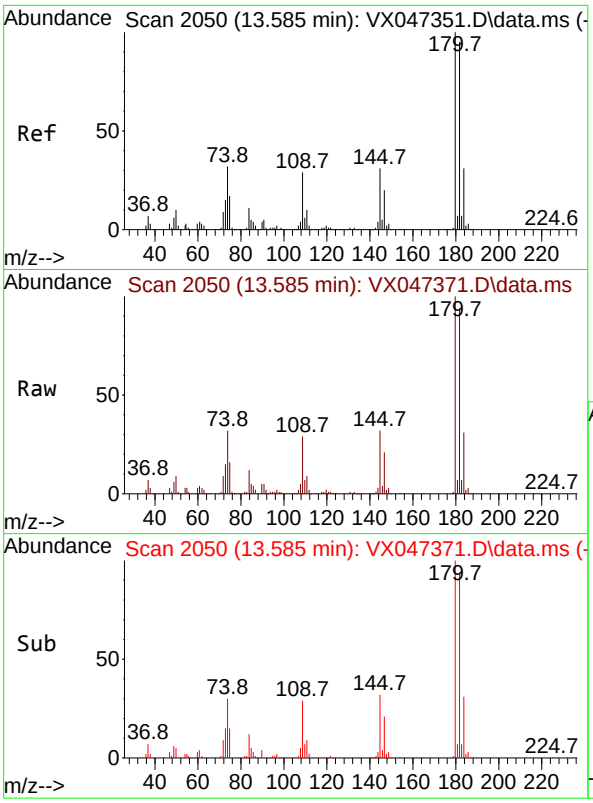


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.241 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 75 Resp: 39921

Ion	Ratio	Lower	Upper
75	100		
155	82.1	41.3	123.7
157	103.5	51.5	154.5

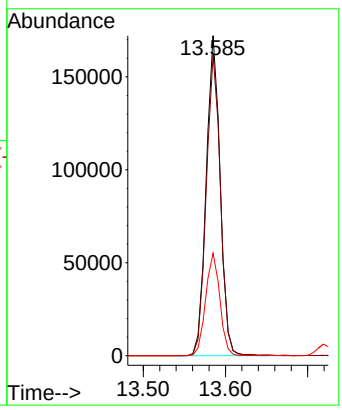




#93
1,2,4-Trichlorobenzene
Concen: 45.933 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:180 Resp: 20292

Ion	Ratio	Lower	Upper
180	100		
182	95.0	48.1	144.4
145	32.5	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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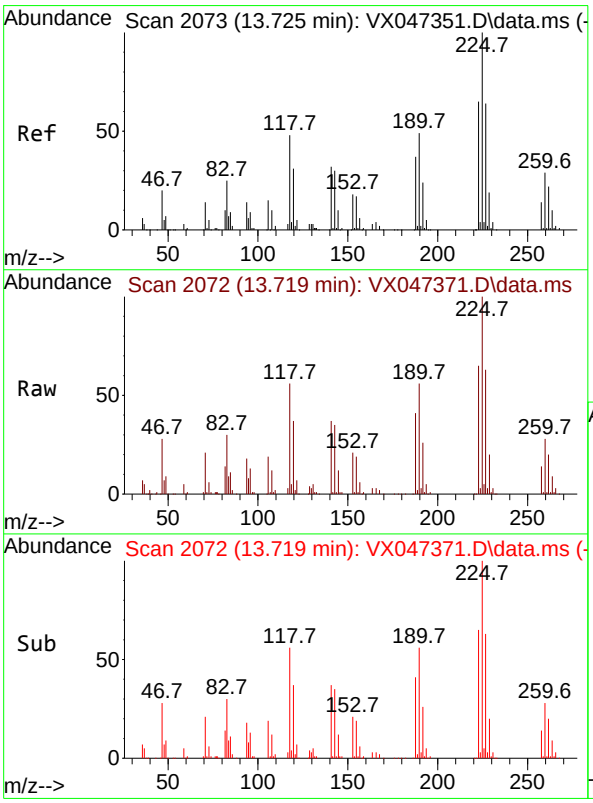
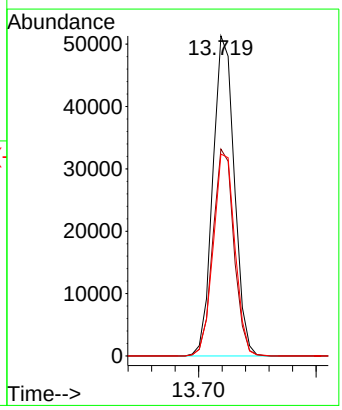
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

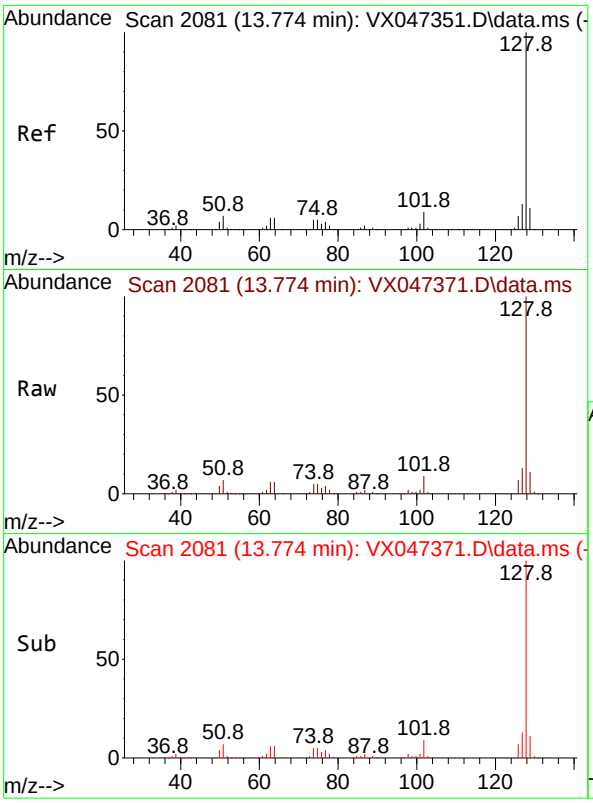


#94
Hexachlorobutadiene
Concen: 41.446 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:225 Resp: 65173

Ion	Ratio	Lower	Upper
225	100		
223	63.4	32.2	96.6
227	63.8	31.6	95.0

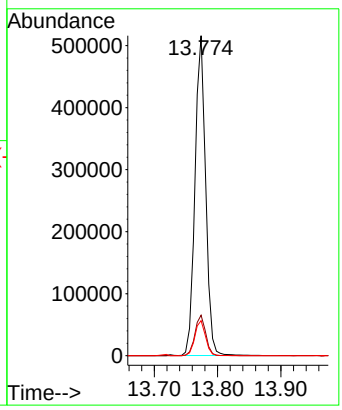




#95
Naphthalene
Concen: 47.948 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:128 Resp: 60533

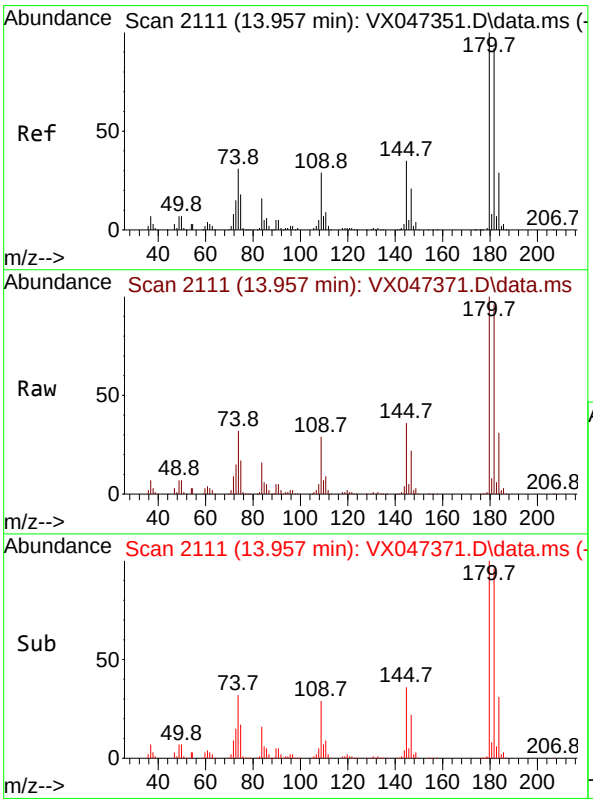
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	11.0	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

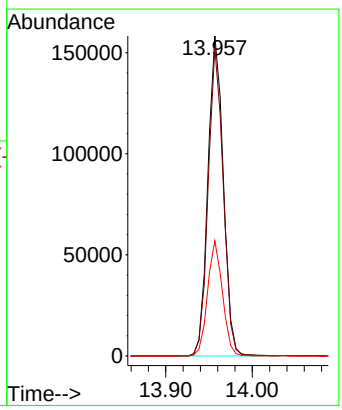
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025



#96
1,2,3-Trichlorobenzene
Concen: 47.001 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:180 Resp: 195721

Ion	Ratio	Lower	Upper
180	100		
182	93.9	48.0	144.2
145	34.7	17.4	52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	113	-0.01
2	T	Dichlorodifluoromethane	0.637	0.681	-6.9	105	0.00
3	P	Chloromethane	0.573	0.638	-11.3	116	0.00
4	C	Vinyl Chloride	0.720	0.719	0.1#	101	0.00
5	T	Bromomethane	0.291	0.248	14.8	83	0.00
6	T	Chloroethane	0.440	0.451	-2.5	110	0.00
7	T	Trichlorofluoromethane	1.065	1.060	0.5	101	0.00
8	T	Diethyl Ether	0.375	0.366	2.4	100	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.618	0.631	-2.1	102	0.00
10	T	Methyl Iodide	1.058	0.854	19.3	83	0.00
11	T	Tert butyl alcohol	0.061	0.059	3.3	98	0.00
12	CM	1,1-Dichloroethene	0.630	0.616	2.2#	100	0.00
13	T	Acrolein	0.129	0.072	44.2#	62	0.00
14	T	Allyl chloride	1.093	1.015	7.1	95	0.00
15	T	Acrylonitrile	0.294	0.290	1.4	96	0.00
16	T	Acetone	0.263	0.254	3.4	102	0.00
17	T	Carbon Disulfide	1.900	1.913	-0.7	108	0.00
18	T	Methyl Acetate	0.682	0.672	1.5	99	0.00
19	T	Methyl tert-butyl Ether	1.915	1.840	3.9	95	0.00
20	T	Methylene Chloride	0.697	0.657	5.7	98	0.00
21	T	trans-1,2-Dichloroethene	0.668	0.633	5.2	98	0.00
22	T	Diisopropyl ether	2.161	2.100	2.8	96	0.00
23	T	Vinyl Acetate	1.772	1.712	3.4	95	0.00
24	P	1,1-Dichloroethane	1.222	1.177	3.7	98	0.00
25	T	2-Butanone	0.344	0.330	4.1	96	0.00
26	T	2,2-Dichloropropane	0.922	0.866	6.1	96	0.00
27	T	cis-1,2-Dichloroethene	0.778	0.726	6.7	97	0.00
28	T	Bromochloromethane	0.508	0.536	-5.5	112	0.00
29	T	Tetrahydrofuran	0.223	0.205	8.1	94	0.00
30	C	Chloroform	1.247	1.170	6.2#	97	0.00
31	T	Cyclohexane	1.126	1.041	7.5	97	0.00
32	T	1,1,1-Trichloroethane	1.073	1.024	4.6	97	0.00
33	S	1,2-Dichloroethane-d4	0.700	0.690	1.4	111	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	110	0.00
35	S	Dibromofluoromethane	0.325	0.336	-3.4	111	0.00
36	T	1,1-Dichloropropene	0.512	0.487	4.9	95	0.00
37	T	Ethyl Acetate	0.532	0.522	1.9	97	0.00
38	T	Carbon Tetrachloride	0.560	0.548	2.1	99	0.00
39	T	Methylcyclohexane	0.639	0.604	5.5	95	0.00
40	TM	Benzene	1.533	1.469	4.2	95	0.00
41	T	Methacrylonitrile	0.224	0.216	3.6	92	0.00
42	TM	1,2-Dichloroethane	0.543	0.515	5.2	94	0.00
43	T	Isopropyl Acetate	0.764	0.727	4.8	92	0.00
44	TM	Trichloroethene	0.393	0.366	6.9	93	0.00
45	C	1,2-Dichloropropane	0.384	0.368	4.2#	96	0.00
46	T	Dibromomethane	0.279	0.265	5.0	96	0.00
47	T	Bromodichloromethane	0.578	0.557	3.6	96	0.00
48	T	Methyl methacrylate	0.397	0.374	5.8	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	0.004	0.0	96	0.00
50	S	Toluene-d8	1.160	1.149	0.9	108	0.00
51	T	4-Methyl-2-Pentanone	0.440	0.428	2.7	92	0.00
52	CM	Toluene	0.947	0.900	5.0#	93	0.00
53	T	t-1,3-Dichloropropene	0.505	0.497	1.6	93	0.00
54	T	cis-1,3-Dichloropropene	0.571	0.550	3.7	94	0.00
55	T	1,1,2-Trichloroethane	0.360	0.340	5.6	94	0.00
56	T	Ethyl methacrylate	0.530	0.506	4.5	90	0.00
57	T	1,3-Dichloropropane	0.613	0.575	6.2	94	0.00
58	T	2-Chloroethyl Vinyl ether	0.211	0.232	-10.0	93	0.00
59	T	2-Hexanone	0.304	0.290	4.6	92	0.00
60	T	Dibromochloromethane	0.428	0.406	5.1	96	0.00
61	T	1,2-Dibromoethane	0.371	0.344	7.3	92	0.00
62	S	4-Bromofluorobenzene	0.428	0.424	0.9	108	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64	T	Tetrachloroethene	0.362	0.349	3.6	94	0.00
65	PM	Chlorobenzene	1.188	1.129	5.0	94	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.389	3.2	94	0.00
67	C	Ethyl Benzene	2.045	1.968	3.8#	93	0.00
68	T	m/p-Xylenes	0.763	0.735	3.7	92	0.00
69	T	o-Xylene	0.734	0.708	3.5	93	0.00
70	T	Styrene	1.240	1.227	1.0	93	0.00
71	P	Bromoform	0.302	0.297	1.7	95	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
73	T	Isopropylbenzene	3.913	3.805	2.8	93	0.00
74	T	N-amyl acetate	1.486	1.465	1.4	91	0.00
75	P	1,1,2,2-Tetrachloroethane	1.149	1.100	4.3	93	0.00
76	T	1,2,3-Trichloropropane	0.917	0.852	7.1	90	0.00
77	T	Bromobenzene	0.955	0.903	5.4	92	0.00
78	T	n-propylbenzene	4.673	4.569	2.2	95	0.00
79	T	2-Chlorotoluene	2.825	2.650	6.2	92	0.00
80	T	1,3,5-Trimethylbenzene	3.219	3.106	3.5	93	0.00
81	T	trans-1,4-Dichloro-2-butene	0.178	0.129	27.5#	70	0.00
82	T	4-Chlorotoluene	3.330	3.142	5.6	93	0.00
83	T	tert-Butylbenzene	3.212	3.139	2.3	93	0.00
84	T	1,2,4-Trimethylbenzene	3.219	3.115	3.2	92	0.00
85	T	sec-Butylbenzene	3.981	3.865	2.9	94	0.00
86	T	p-Isopropyltoluene	3.369	3.254	3.4	94	0.00
87	T	1,3-Dichlorobenzene	1.825	1.709	6.4	92	0.00
88	T	1,4-Dichlorobenzene	1.877	1.719	8.4	93	0.00
89	T	n-Butylbenzene	3.133	2.995	4.4	93	0.00
90	T	Hexachloroethane	0.591	0.573	3.0	94	0.00
91	T	1,2-Dichlorobenzene	1.733	1.636	5.6	94	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.222	0.210	5.4	91	0.00
93	T	1,2,4-Trichlorobenzene	1.161	1.067	8.1	93	0.00
94	T	Hexachlorobutadiene	0.413	0.343	16.9	91	0.00
95	T	Naphthalene	3.319	3.183	4.1	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1.095	1.029	6.0	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	113	-0.01
2	T	Dichlorodifluoromethane	50.000	53.419	-6.8	105	0.00
3	P	Chloromethane	50.000	55.674	-11.3	116	0.00
4	C	Vinyl Chloride	50.000	49.979	0.0#	101	0.00
5	T	Bromomethane	50.000	42.665	14.7	83	0.00
6	T	Chloroethane	50.000	51.248	-2.5	110	0.00
7	T	Trichlorofluoromethane	50.000	49.809	0.4	101	0.00
8	T	Diethyl Ether	50.000	48.828	2.3	100	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.087	-2.2	102	0.00
10	T	Methyl Iodide	50.000	40.343	19.3	83	0.00
11	T	Tert butyl alcohol	250.000	243.310	2.7	98	0.00
12	CM	1,1-Dichloroethene	50.000	48.931	2.1#	100	0.00
13	T	Acrolein	250.000	140.523	43.8#	62	0.00
14	T	Allyl chloride	50.000	46.403	7.2	95	0.00
15	T	Acrylonitrile	250.000	246.561	1.4	96	0.00
16	T	Acetone	250.000	241.230	3.5	102	0.00
17	T	Carbon Disulfide	50.000	50.344	-0.7	108	0.00
18	T	Methyl Acetate	50.000	49.319	1.4	99	0.00
19	T	Methyl tert-butyl Ether	50.000	48.031	3.9	95	0.00
20	T	Methylene Chloride	50.000	47.188	5.6	98	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.345	5.3	98	0.00
22	T	Diisopropyl ether	50.000	48.571	2.9	96	0.00
23	T	Vinyl Acetate	250.000	241.659	3.3	95	0.00
24	P	1,1-Dichloroethane	50.000	48.171	3.7	98	0.00
25	T	2-Butanone	250.000	239.666	4.1	96	0.00
26	T	2,2-Dichloropropane	50.000	46.963	6.1	96	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.668	6.7	97	0.00
28	T	Bromochloromethane	50.000	52.737	-5.5	112	0.00
29	T	Tetrahydrofuran	250.000	229.620	8.2	94	0.00
30	C	Chloroform	50.000	46.921	6.2#	97	0.00
31	T	Cyclohexane	50.000	46.209	7.6	97	0.00
32	T	1,1,1-Trichloroethane	50.000	47.731	4.5	97	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.309	1.4	111	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	110	0.00
35	S	Dibromofluoromethane	50.000	51.741	-3.5	111	0.00
36	T	1,1-Dichloropropene	50.000	47.491	5.0	95	0.00
37	T	Ethyl Acetate	50.000	49.091	1.8	97	0.00
38	T	Carbon Tetrachloride	50.000	48.915	2.2	99	0.00
39	T	Methylcyclohexane	50.000	47.245	5.5	95	0.00
40	TM	Benzene	50.000	47.917	4.2	95	0.00
41	T	Methacrylonitrile	50.000	48.083	3.8	92	0.00
42	TM	1,2-Dichloroethane	50.000	47.424	5.2	94	0.00
43	T	Isopropyl Acetate	50.000	47.583	4.8	92	0.00
44	TM	Trichloroethene	50.000	46.616	6.8	93	0.00
45	C	1,2-Dichloropropane	50.000	47.913	4.2#	96	0.00
46	T	Dibromomethane	50.000	47.485	5.0	96	0.00
47	T	Bromodichloromethane	50.000	48.205	3.6	96	0.00
48	T	Methyl methacrylate	50.000	47.171	5.7	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1013.952	-1.4	96	0.00
50	S	Toluene-d8	50.000	49.536	0.9	108	0.00
51	T	4-Methyl-2-Pentanone	250.000	243.653	2.5	92	0.00
52	CM	Toluene	50.000	47.503	5.0#	93	0.00
53	T	t-1,3-Dichloropropene	50.000	49.287	1.4	93	0.00
54	T	cis-1,3-Dichloropropene	50.000	48.187	3.6	94	0.00
55	T	1,1,2-Trichloroethane	50.000	47.246	5.5	94	0.00
56	T	Ethyl methacrylate	50.000	47.723	4.6	90	0.00
57	T	1,3-Dichloropropane	50.000	46.880	6.2	94	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	229.244	8.3	93	0.00
59	T	2-Hexanone	250.000	238.139	4.7	92	0.00
60	T	Dibromochloromethane	50.000	47.510	5.0	96	0.00
61	T	1,2-Dibromoethane	50.000	46.327	7.3	92	0.00
62	S	4-Bromofluorobenzene	50.000	49.495	1.0	108	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64	T	Tetrachloroethene	50.000	48.259	3.5	94	0.00
65	PM	Chlorobenzene	50.000	47.514	5.0	94	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.384	3.2	94	0.00
67	C	Ethyl Benzene	50.000	48.124	3.8#	93	0.00
68	T	m/p-Xylenes	100.000	96.341	3.7	92	0.00
69	T	o-Xylene	50.000	48.267	3.5	93	0.00
70	T	Styrene	50.000	49.483	1.0	93	0.00
71	P	Bromoform	50.000	49.276	1.4	95	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	107	0.00
73	T	Isopropylbenzene	50.000	48.628	2.7	93	0.00
74	T	N-amyl acetate	50.000	49.291	1.4	91	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.887	4.2	93	0.00
76	T	1,2,3-Trichloropropane	50.000	46.476	7.0	90	0.00
77	T	Bromobenzene	50.000	47.261	5.5	92	0.00
78	T	n-propylbenzene	50.000	48.892	2.2	95	0.00
79	T	2-Chlorotoluene	50.000	46.898	6.2	92	0.00
80	T	1,3,5-Trimethylbenzene	50.000	48.241	3.5	93	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	33.692	32.6#	70	0.00
82	T	4-Chlorotoluene	50.000	47.174	5.7	93	0.00
83	T	tert-Butylbenzene	50.000	48.866	2.3	93	0.00
84	T	1,2,4-Trimethylbenzene	50.000	48.380	3.2	92	0.00
85	T	sec-Butylbenzene	50.000	48.547	2.9	94	0.00
86	T	p-Isopropyltoluene	50.000	48.304	3.4	94	0.00
87	T	1,3-Dichlorobenzene	50.000	46.819	6.4	92	0.00
88	T	1,4-Dichlorobenzene	50.000	45.783	8.4	93	0.00
89	T	n-Butylbenzene	50.000	47.792	4.4	93	0.00
90	T	Hexachloroethane	50.000	48.462	3.1	94	0.00
91	T	1,2-Dichlorobenzene	50.000	47.206	5.6	94	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.241	5.5	91	0.00
93	T	1,2,4-Trichlorobenzene	50.000	45.933	8.1	93	0.00
94	T	Hexachlorobutadiene	50.000	41.446	17.1	91	0.00
95	T	Naphthalene	50.000	47.948	4.1	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	47.001	6.0	94	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: FIRS02

Lab Code: ACE | SDG No.: Q2815

Instrument ID: MSVOA_X | Calibration Date/Time: 08/18/2025 20:57

Lab File ID: VX047398.D | Init. Calib. Date(s): 08/15/2025 08/15/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:40 12:30

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.637	0.633		-0.63	50
Chloromethane	0.573	0.563	0.1	-1.75	50
Vinyl Chloride	0.720	0.674		-6.39	50
Bromomethane	0.291	0.176		-39.52	50
Chloroethane	0.440	0.422		-4.09	50
Trichlorofluoromethane	1.065	1.016		-4.6	50
1,1,2-Trichlorotrifluoroethane	0.618	0.604		-2.27	50
1,1-Dichloroethene	0.630	0.592		-6.03	50
Acetone	0.263	0.251		-4.56	50
Carbon Disulfide	1.900	1.780		-6.32	50
Methyl tert-butyl Ether	1.915	1.897		-0.94	50
Methyl Acetate	0.682	0.740		8.5	50
Methylene Chloride	0.697	0.659		-5.45	50
trans-1,2-Dichloroethene	0.668	0.625		-6.44	50
1,1-Dichloroethane	1.222	1.172	0.1	-4.09	50
Cyclohexane	1.126	1.065		-5.42	50
2-Butanone	0.344	0.365		6.11	50
Carbon Tetrachloride	0.560	0.527		-5.89	50
cis-1,2-Dichloroethene	0.778	0.733		-5.78	50
Bromochloromethane	0.508	0.496		-2.36	50
Chloroform	1.247	1.196		-4.09	50
1,1,1-Trichloroethane	1.073	1.028		-4.19	50
Methylcyclohexane	0.639	0.604		-5.48	50
Benzene	1.533	1.461		-4.7	50
1,2-Dichloroethane	0.543	0.517		-4.79	50
Trichloroethene	0.393	0.369		-6.11	50
1,2-Dichloropropane	0.384	0.366		-4.69	50
Bromodichloromethane	0.578	0.549		-5.02	50
4-Methyl-2-Pentanone	0.440	0.468		6.36	50
Toluene	0.947	0.907		-4.22	50
t-1,3-Dichloropropene	0.505	0.491		-2.77	50
cis-1,3-Dichloropropene	0.571	0.534		-6.48	50
1,1,2-Trichloroethane	0.360	0.345		-4.17	50
2-Hexanone	0.304	0.324		6.58	50
Dibromochloromethane	0.428	0.409		-4.44	50
1,2-Dibromoethane	0.371	0.359		-3.23	50
Tetrachloroethene	0.362	0.350		-3.32	50
Chlorobenzene	1.188	1.117	0.3	-5.98	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:	FIRS02
Lab Code:	ACE	SDG No.:	Q2815
Instrument ID:	MSVOA_X	Calibration Date/Time:	08/18/2025 20:57
Lab File ID:	VX047398.D	Init. Calib. Date(s):	08/15/2025 08/15/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:40 12:30

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.045	1.978		-3.28	50
m/p-Xylenes	0.763	0.744		-2.49	50
o-Xylene	0.734	0.715		-2.59	50
Styrene	1.240	1.214		-2.1	50
Bromoform	0.302	0.301	0.1	-0.33	50
Isopropylbenzene	3.913	3.767		-3.73	50
1,1,2,2-Tetrachloroethane	1.149	1.119	0.3	-2.61	50
1,3-Dichlorobenzene	1.825	1.690		-7.4	50
1,4-Dichlorobenzene	1.877	1.698		-9.54	50
1,2-Dichlorobenzene	1.733	1.602		-7.56	50
1,2-Dibromo-3-Chloropropane	0.222	0.229		3.15	50
1,2,4-Trichlorobenzene	1.161	1.096		-5.6	50
1,2,3-Trichlorobenzene	1.095	1.036		-5.39	50
1,2-Dichloroethane-d4	0.700	0.708		1.14	50
Dibromofluoromethane	0.325	0.329		1.23	50
Toluene-d8	1.160	1.154		-0.52	50
4-Bromofluorobenzene	0.428	0.435		1.64	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\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	239104	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	409468	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	364979	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	181876	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	169393	50.620	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.240%			
35) Dibromofluoromethane	5.404	113	134653	50.669	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.340%			
50) Toluene-d8	8.653	98	472396	49.733	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.460%			
62) 4-Bromofluorobenzene	11.079	95	177952	50.769	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	151457	49.690	ug/l	98
3) Chloromethane	1.313	50	134677	49.117	ug/l	95
4) Vinyl Chloride	1.392	62	161209	46.841	ug/l	98
5) Bromomethane	1.624	94	41982	30.200	ug/l	97
6) Chloroethane	1.703	64	100911	47.923	ug/l	100
7) Trichlorofluoromethane	1.904	101	242847	47.704	ug/l	100
8) Diethyl Ether	2.148	74	85280	47.576	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.349	101	144462	48.921	ug/l	99
10) Methyl Iodide	2.471	142	139225	27.512	ug/l	97
11) Tert butyl alcohol	2.965	59	82261	282.575	ug/l	100
12) 1,1-Dichloroethene	2.337	96	141611	47.039	ug/l	95
13) Acrolein	2.252	56	8966	14.590	ug/l	92
14) Allyl chloride	2.684	41	217448	41.586	ug/l	98
15) Acrylonitrile	3.081	53	363973	258.742	ug/l	99
16) Acetone	2.392	43	299617	238.203	ug/l	99
17) Carbon Disulfide	2.532	76	425517	46.840	ug/l	98
18) Methyl Acetate	2.715	43	176982	54.297	ug/l	100
19) Methyl tert-butyl Ether	3.130	73	453492	49.516	ug/l	97
20) Methylene Chloride	2.806	84	157641	47.329	ug/l	98
21) trans-1,2-Dichloroethene	3.111	96	149432	46.767	ug/l	97
22) Diisopropyl ether	3.776	45	511346	49.473	ug/l	96
23) Vinyl Acetate	3.739	43	2084668	246.075	ug/l	99
24) 1,1-Dichloroethane	3.629	63	280167	47.957	ug/l	99
25) 2-Butanone	4.568	43	436669	265.075	ug/l	99
26) 2,2-Dichloropropane	4.495	77	175530	39.808	ug/l	97
27) cis-1,2-Dichloroethene	4.501	96	175340	47.114	ug/l	98
28) Bromochloromethane	4.910	49	118660	48.810	ug/l	100
29) Tetrahydrofuran	5.026	42	283761	266.507	ug/l	98
30) Chloroform	5.111	83	286078	47.982	ug/l	97
31) Cyclohexane	5.489	56	254659	47.287	ug/l	97
32) 1,1,1-Trichloroethane	5.397	97	245866	47.909	ug/l	99
36) 1,1-Dichloropropene	5.708	75	199797	47.627	ug/l	99
37) Ethyl Acetate	4.727	43	210513	48.337	ug/l	99
38) Carbon Tetrachloride	5.696	117	215992	47.116	ug/l	99
39) Methylcyclohexane	7.391	83	247122	47.227	ug/l	95
40) Benzene	6.050	78	598209	47.641	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	91908	50.045	ug/l		95
42) 1,2-Dichloroethane	6.098	62	211887	47.640	ug/l		100
43) Isopropyl Acetate	6.348	43	317114	50.686	ug/l		100
44) Trichloroethene	7.135	130	151205	47.029	ug/l		99
45) 1,2-Dichloropropane	7.434	63	149932	47.663	ug/l		98
46) Dibromomethane	7.586	93	108086	47.328	ug/l		99
47) Bromodichloromethane	7.824	83	224833	47.489	ug/l		99
48) Methyl methacrylate	7.696	41	163233	50.264	ug/l		98
49) 1,4-Dioxane	7.684	88	33800	1070.636	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	957168	265.854	ug/l		98
52) Toluene	8.720	92	371391	47.866	ug/l		100
53) t-1,3-Dichloropropene	8.982	75	200913	48.624	ug/l		98
54) cis-1,3-Dichloropropene	8.372	75	218646	46.750	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	141129	47.906	ug/l		99
56) Ethyl methacrylate	9.116	69	221781	51.063	ug/l		99
57) 1,3-Dichloropropane	9.311	76	241320	48.073	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	531511	256.065	ug/l		100
59) 2-Hexanone	9.433	43	663645	266.477	ug/l		99
60) Dibromochloromethane	9.519	129	167507	47.846	ug/l		100
61) 1,2-Dibromoethane	9.610	107	147057	48.409	ug/l		98
64) Tetrachloroethene	9.275	164	127728	48.383	ug/l		97
65) Chlorobenzene	10.079	112	407823	47.020	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	141328	48.203	ug/l		100
67) Ethyl Benzene	10.195	91	721774	48.350	ug/l		98
68) m/p-Xylenes	10.299	106	543135	97.575	ug/l		100
69) o-Xylene	10.640	106	260931	48.711	ug/l		99
70) Styrene	10.653	104	443043	48.950	ug/l		99
71) Bromoform	10.799	173	109693	49.800	ug/l	#	100
73) Isopropylbenzene	10.963	105	685100	48.136	ug/l		99
74) N-amyl acetate	10.842	43	283144	52.388	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	203458	48.688	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	162792m	48.801	ug/l		
77) Bromobenzene	11.195	156	162609	46.788	ug/l		99
78) n-propylbenzene	11.305	91	815287	47.963	ug/l		100
79) 2-Chlorotoluene	11.360	91	483943	47.097	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	559007	47.736	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	32344	43.382	ug/l		99
82) 4-Chlorotoluene	11.451	91	564800	46.629	ug/l		99
83) tert-Butylbenzene	11.713	119	559489	47.888	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	565346	48.276	ug/l		100
85) sec-Butylbenzene	11.890	105	706315	48.776	ug/l		100
86) p-Isopropyltoluene	12.006	119	588746	48.046	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	307335	46.289	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	308887	45.233	ug/l		99
89) n-Butylbenzene	12.329	91	548981	48.167	ug/l		100
90) Hexachloroethane	12.536	117	104319	48.527	ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	291404	46.240	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	41583	51.455	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	199368	47.190	ug/l		97
94) Hexachlorobutadiene	13.719	225	69851	46.449	ug/l		100
95) Naphthalene	13.774	128	614882	50.928	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	188409	47.311	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

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Supervised By :Mahesh Dadoda 08/20/2025

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\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
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Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
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Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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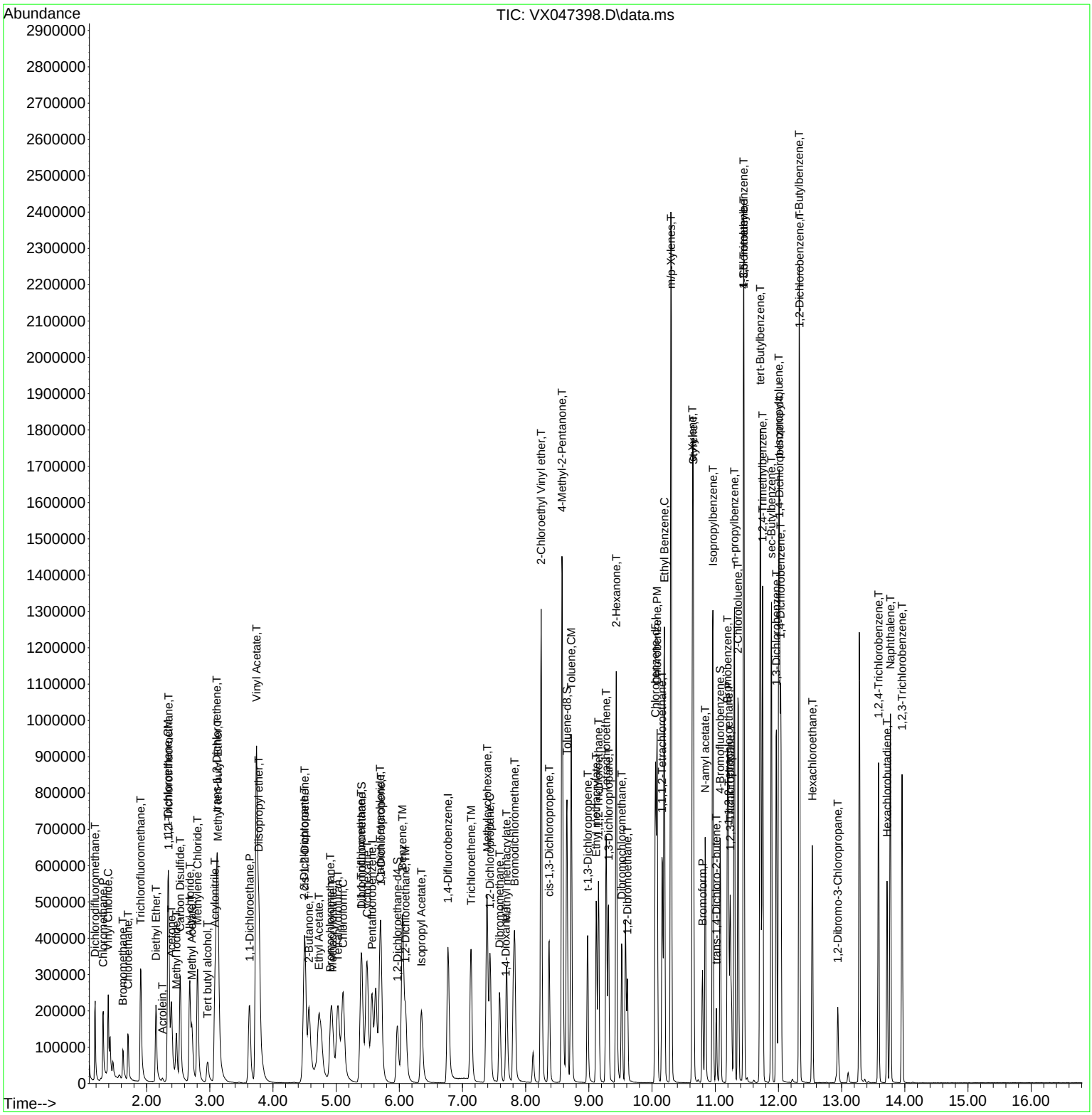
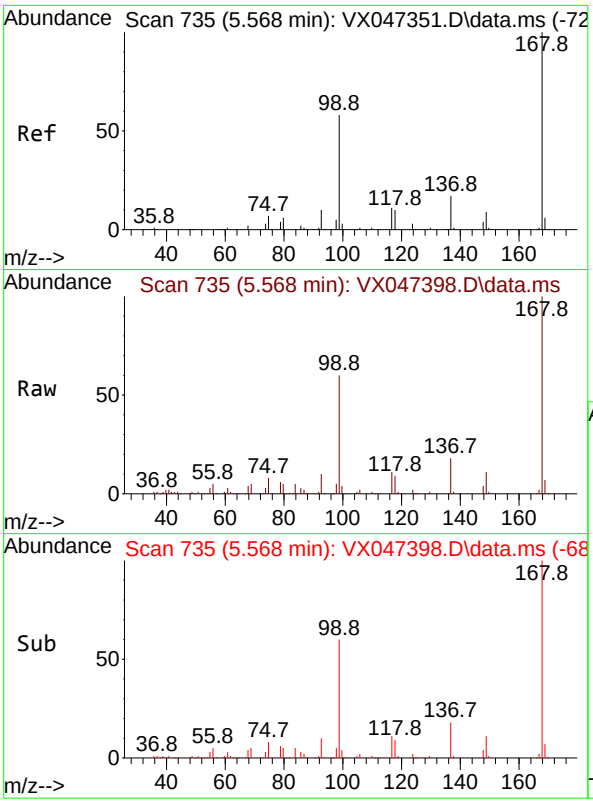
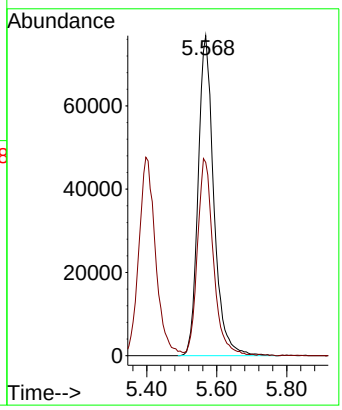




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:168 Resp: 23910

Ion	Ratio	Lower	Upper
168	100		
99	60.4	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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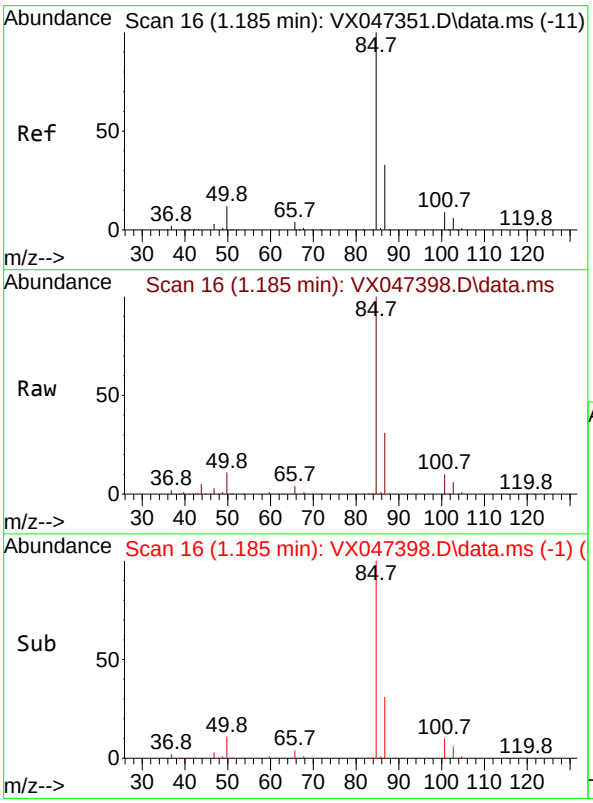
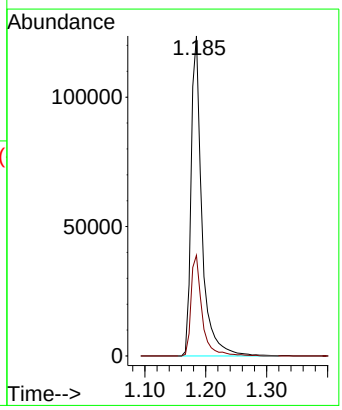
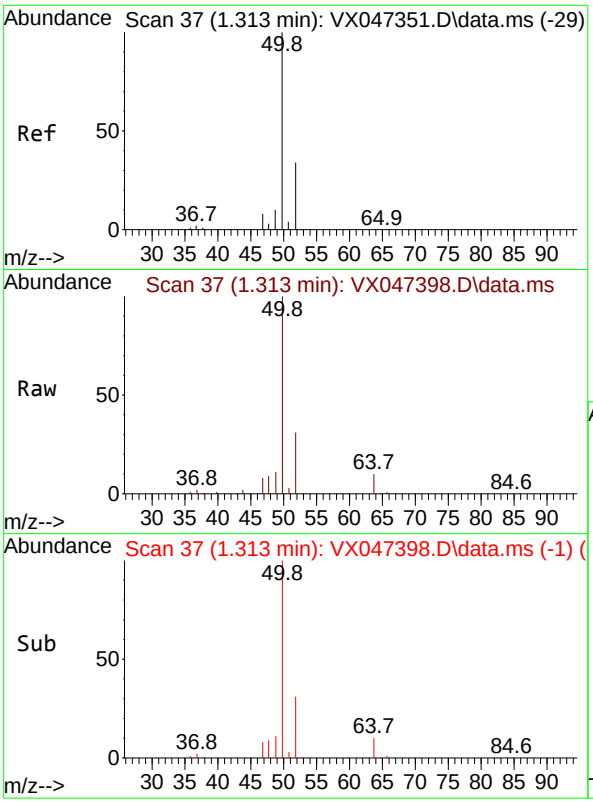


#2
Dichlorodifluoromethane
Concen: 49.690 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 85 Resp: 151457

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.4	49.1

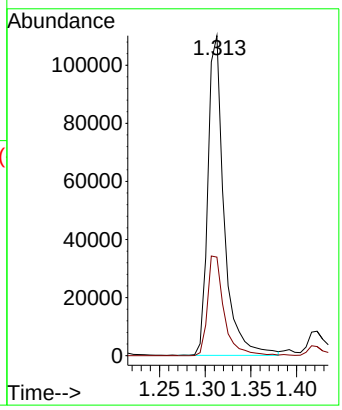




#3
Chloromethane
Concen: 49.117 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 50 Resp: 13467

Ion	Ratio	Lower	Upper
50	100		
52	30.8	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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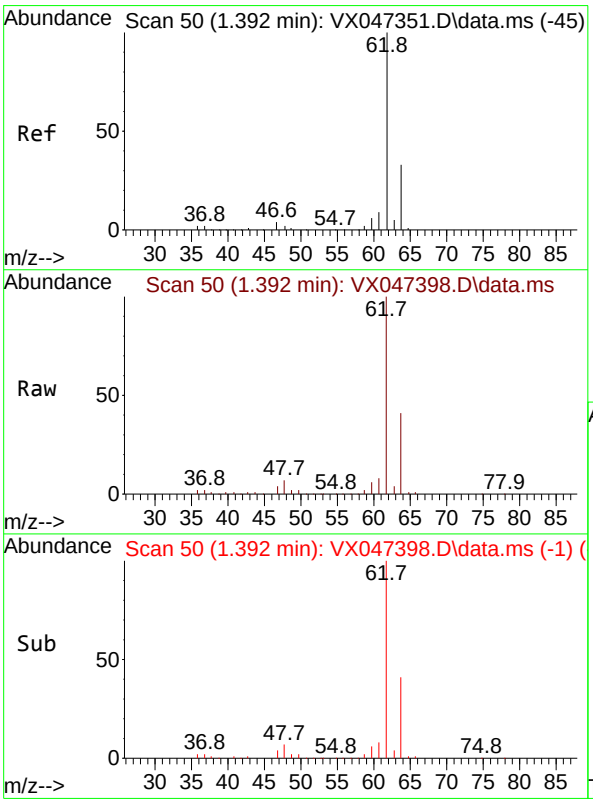
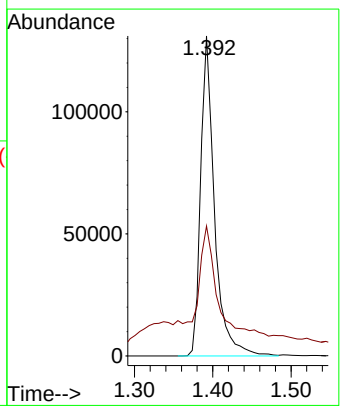
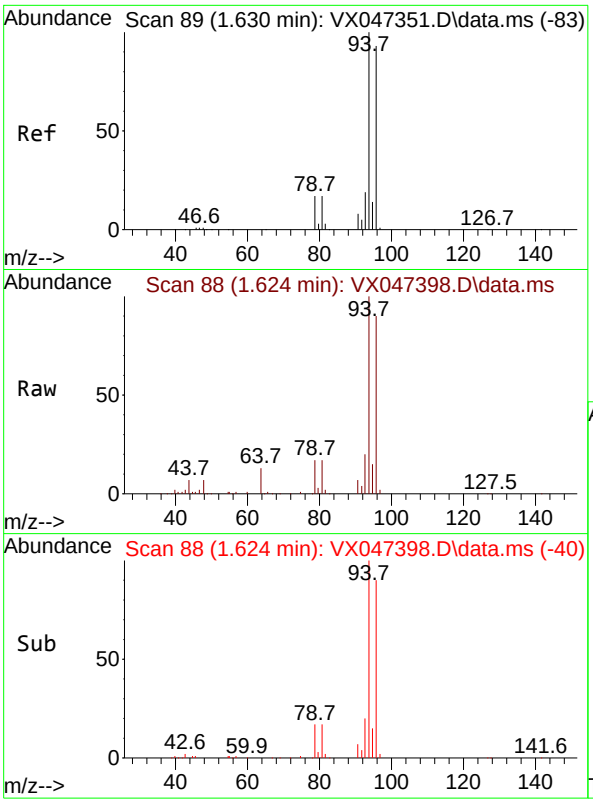


#4
Vinyl Chloride
Concen: 46.841 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 62 Resp: 161209

Ion	Ratio	Lower	Upper
62	100		
64	34.3	26.5	39.7





#5
Bromomethane
Concen: 30.200 ug/l
RT: 1.624 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 94 Resp: 4198

Ion	Ratio	Lower	Upper
94	100		
96	90.2	74.7	112.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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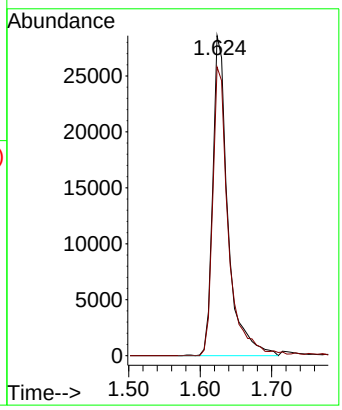
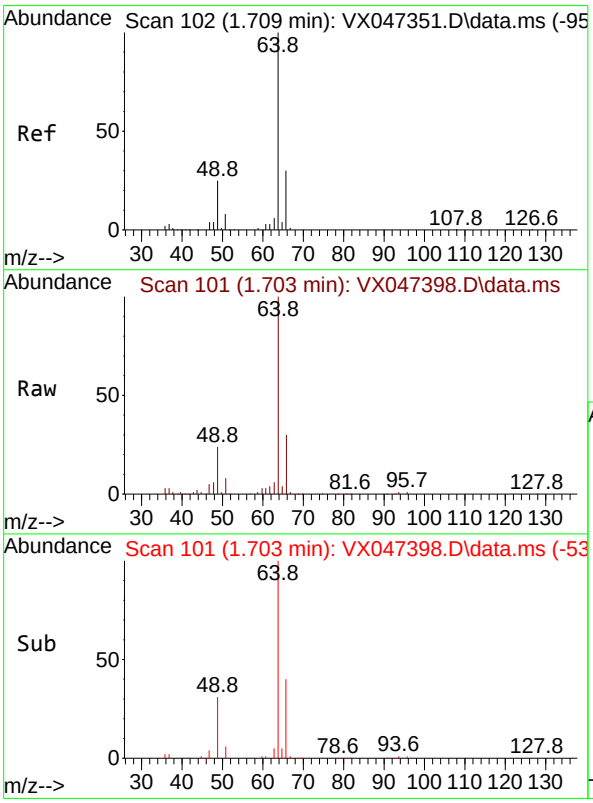
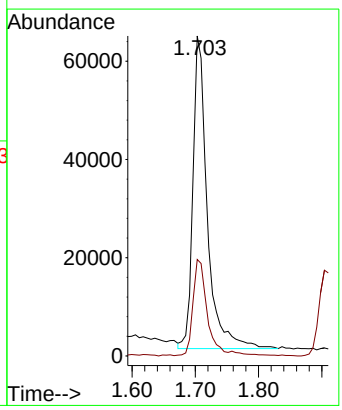


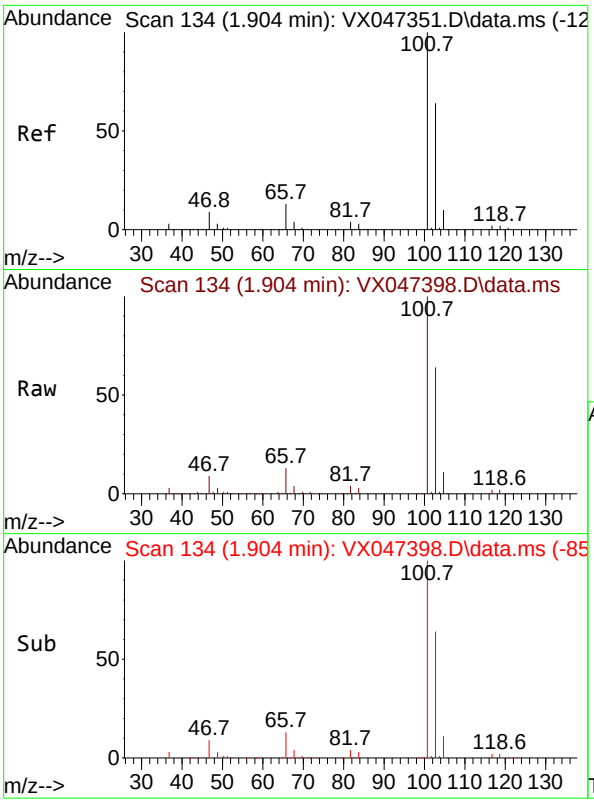


#6
Chloroethane
Concen: 47.923 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 64 Resp: 100911

Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.4	36.6





#7
Trichlorofluoromethane
Concen: 47.704 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:101 Resp: 24284

Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.9	76.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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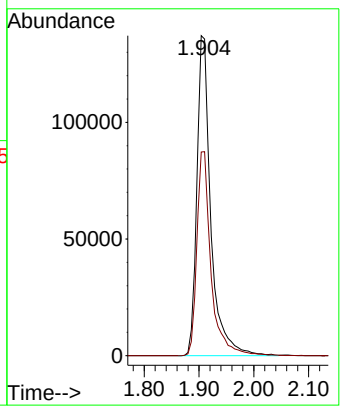
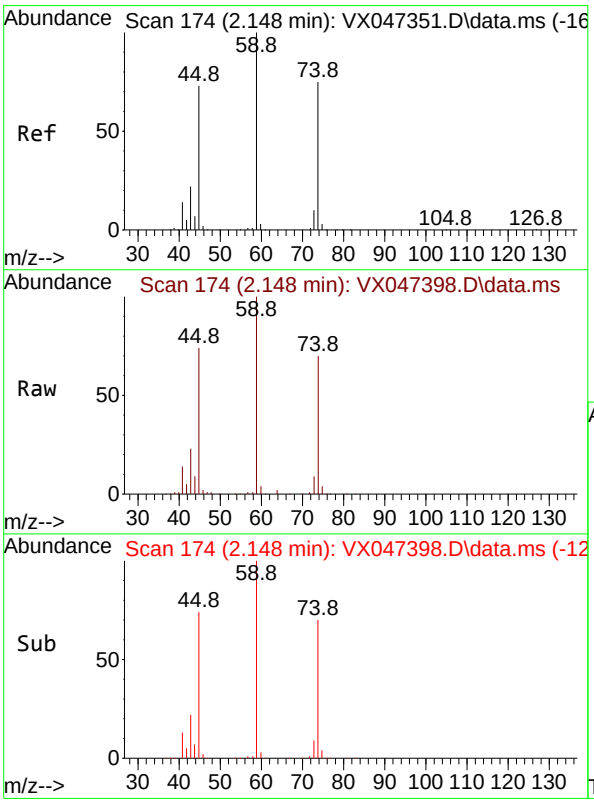
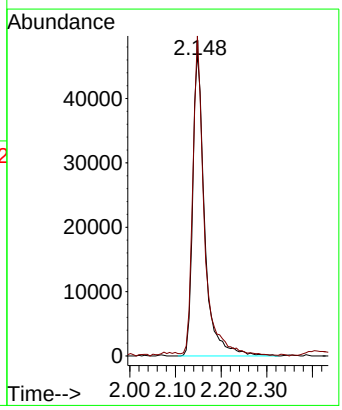


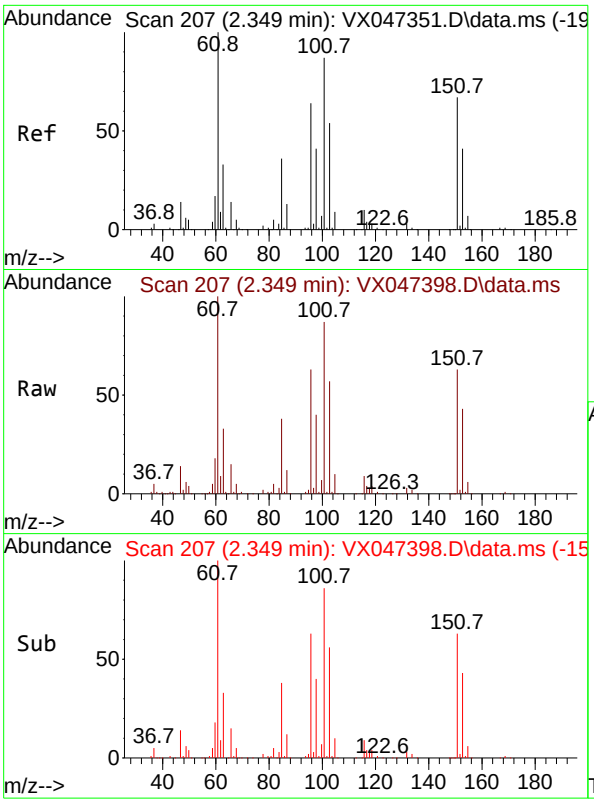


#8
Diethyl Ether
Concen: 47.576 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 74 Resp: 85280

Ion	Ratio	Lower	Upper
74	100		
45	101.8	51.3	154.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.921 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:101 Resp: 14446

Ion	Ratio	Lower	Upper
101	100		
85	44.4	34.3	51.5
151	74.8	59.2	88.8

Instrument :
MSVOA_X
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Manual Integrations
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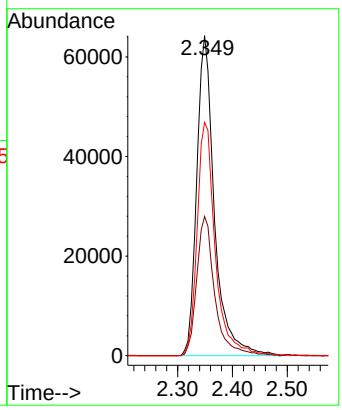
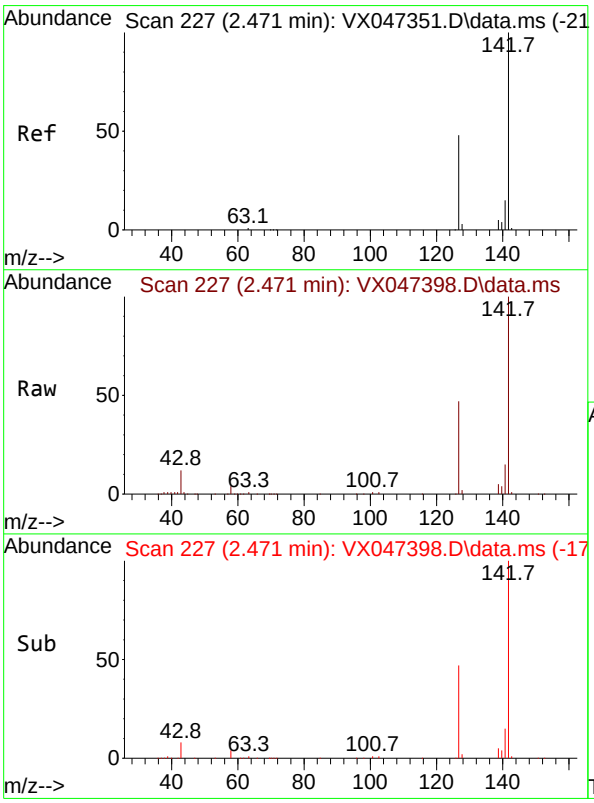
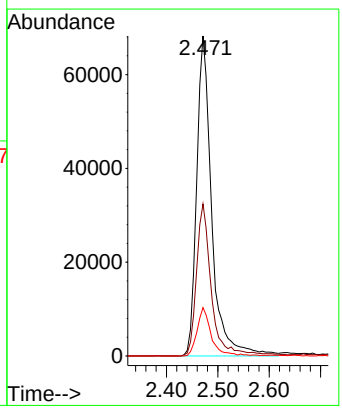


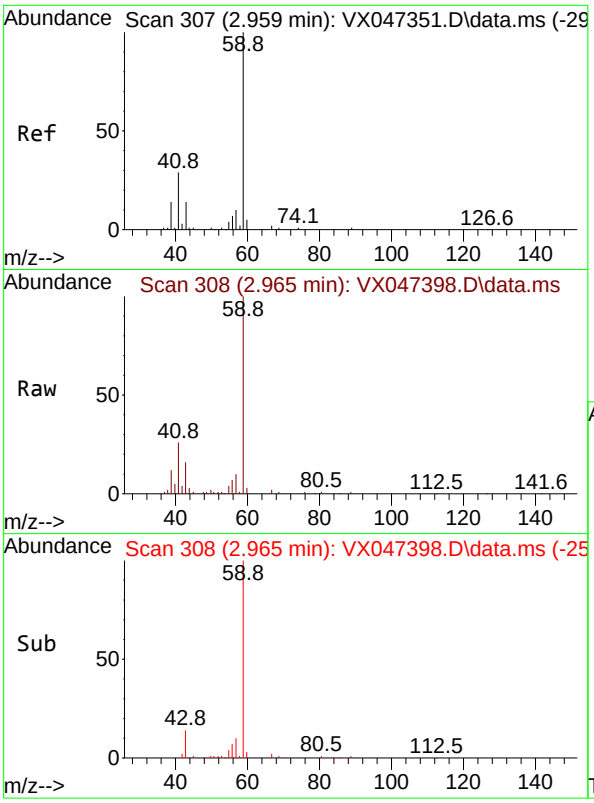


#10
Methyl Iodide
Concen: 27.512 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:142 Resp: 139225

Ion	Ratio	Lower	Upper
142	100		
127	47.3	36.1	54.1
141	14.3	11.1	16.7

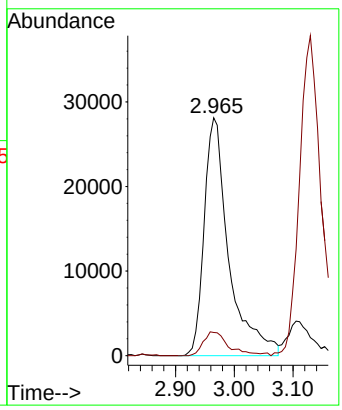




#11
Tert butyl alcohol
Concen: 282.575 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 59 Resp: 8226

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5



Instrument :
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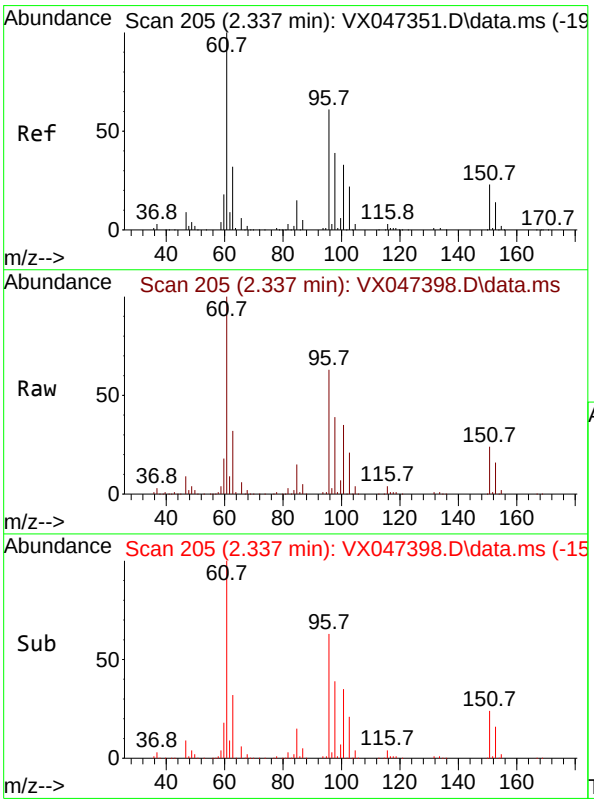
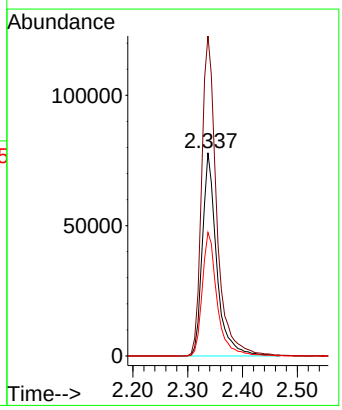
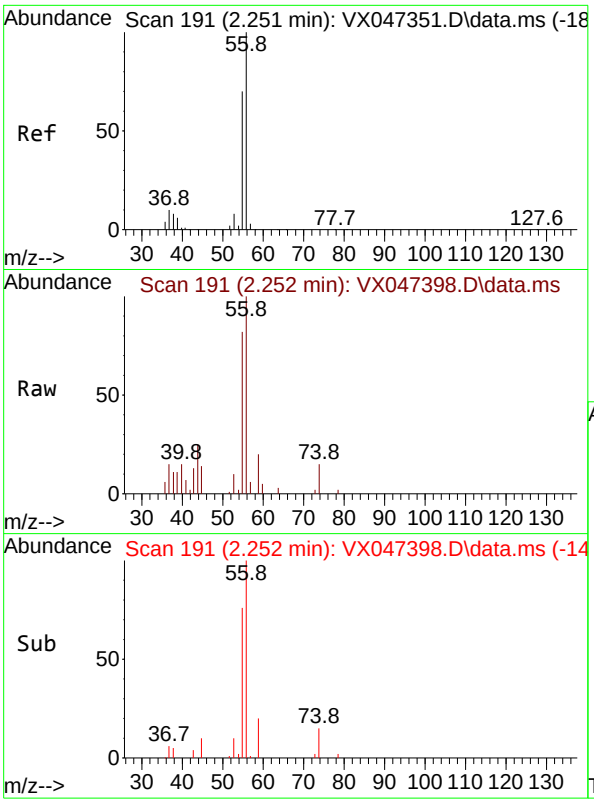


#12
1,1-Dichloroethene
Concen: 47.039 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 96 Resp: 141611

Ion	Ratio	Lower	Upper
96	100		
61	157.5	132.2	198.2
98	62.2	51.2	76.8

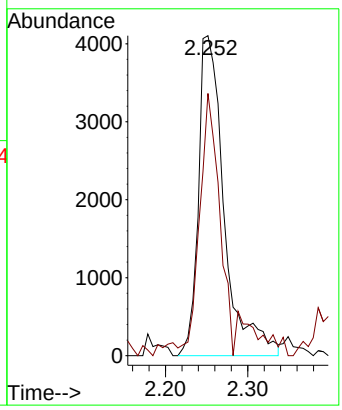




#13
Acrolein
Concen: 14.590 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 56 Resp: 896

Ion	Ratio	Lower	Upper
56	100		
55	62.5	55.5	83.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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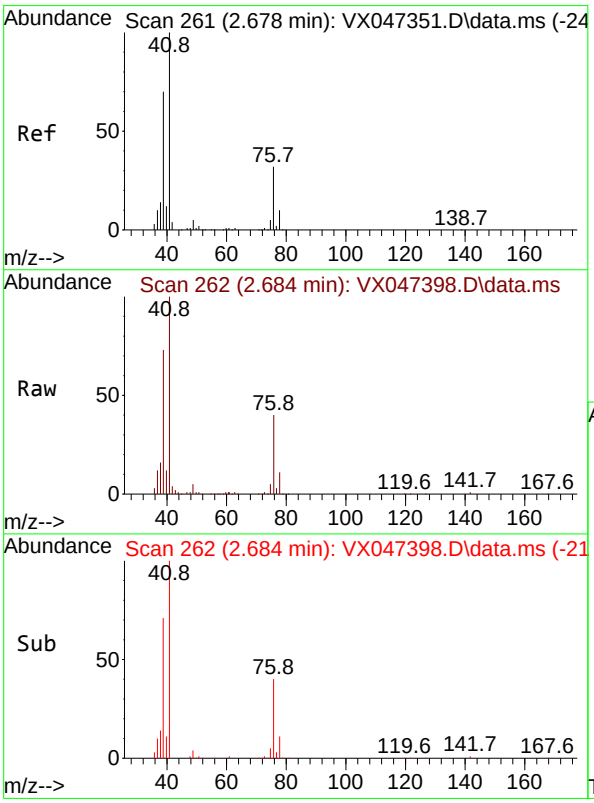
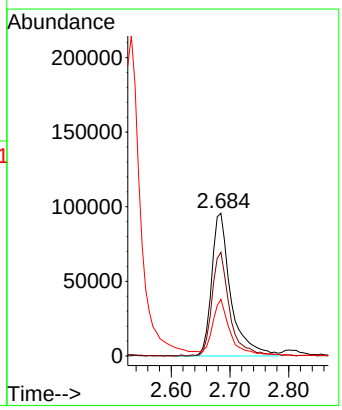
Supervised By :Mahesh Dadoda 08/20/2025

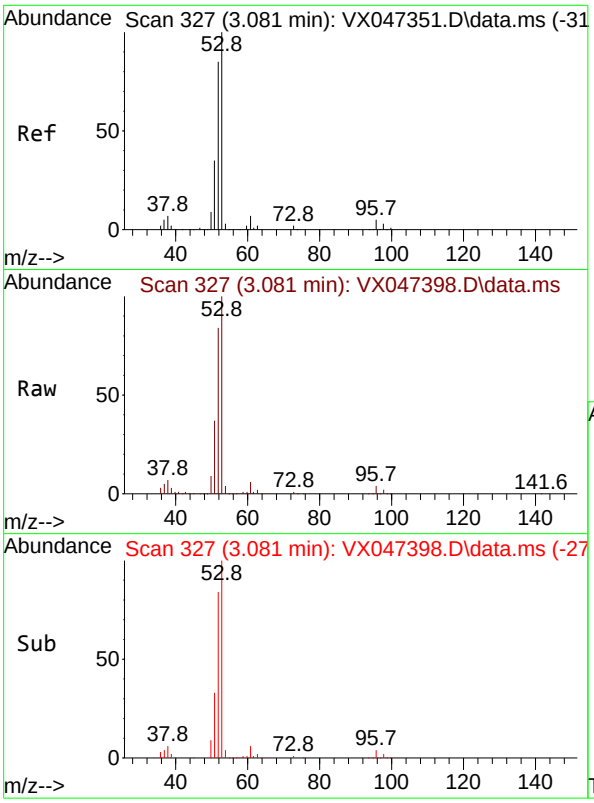


#14
Allyl chloride
Concen: 41.586 ug/l
RT: 2.684 min Scan# 262
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 41 Resp: 217448

Ion	Ratio	Lower	Upper
41	100		
39	67.6	54.6	81.8
76	37.7	27.6	41.4





#15
Acrylonitrile
Concen: 258.742 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 53 Resp: 36397

Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.8	98.6
51	36.5	28.2	42.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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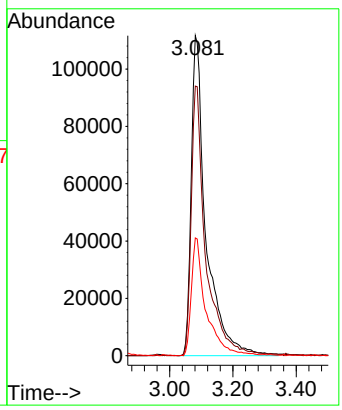
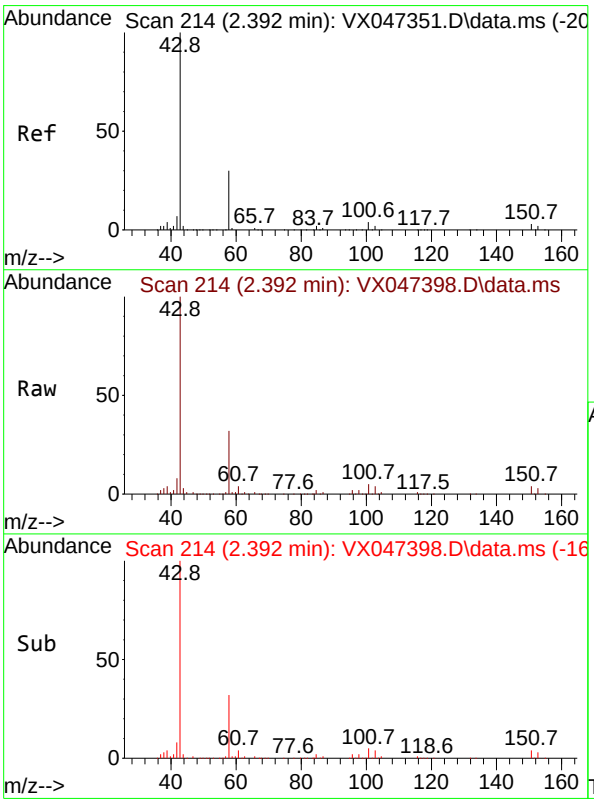
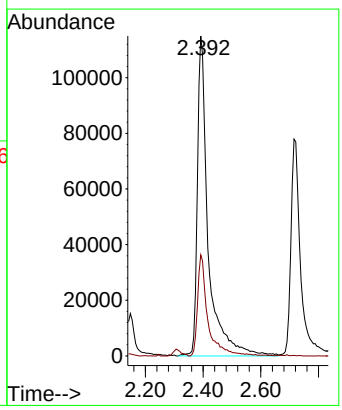


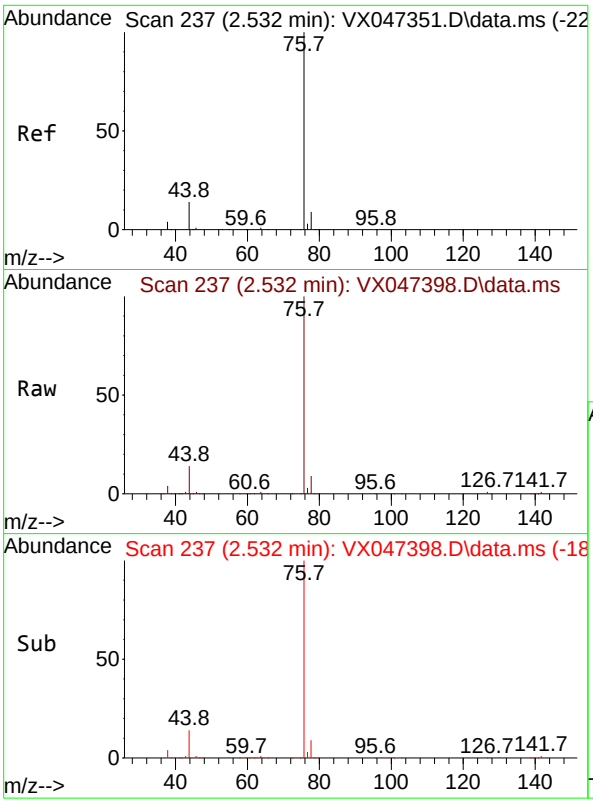


#16
Acetone
Concen: 238.203 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 43 Resp: 299617

Ion	Ratio	Lower	Upper
43	100		
58	31.5	24.8	37.2





#17
Carbon Disulfide
Concen: 46.840 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 76 Resp: 42551

Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.2	10.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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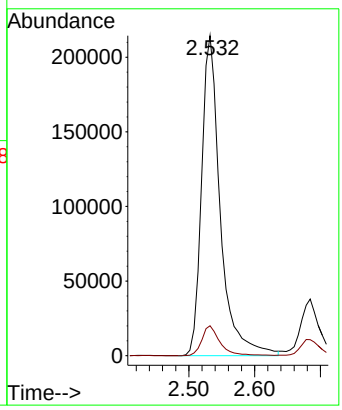
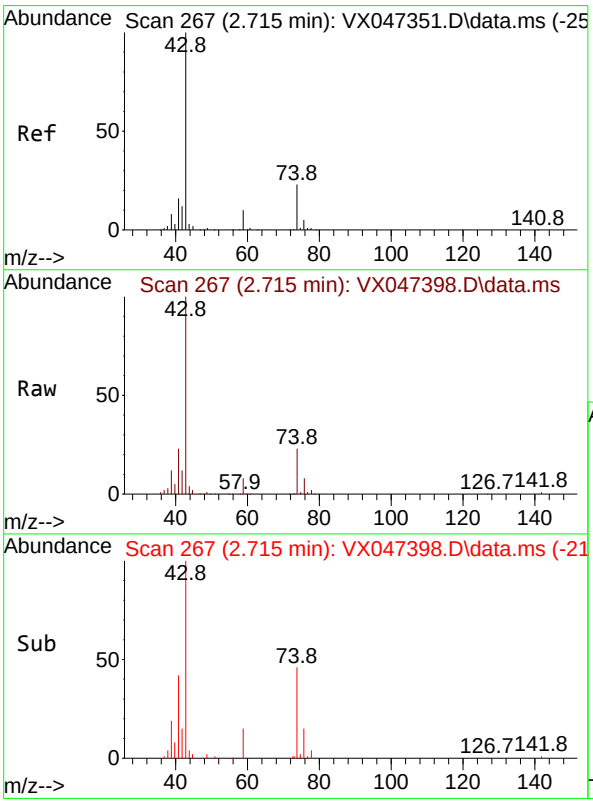
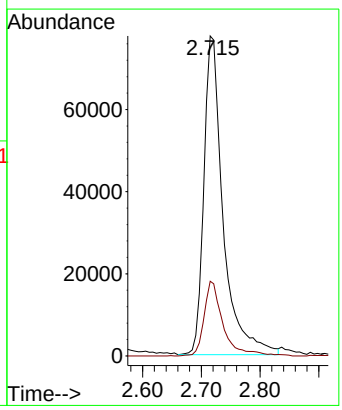


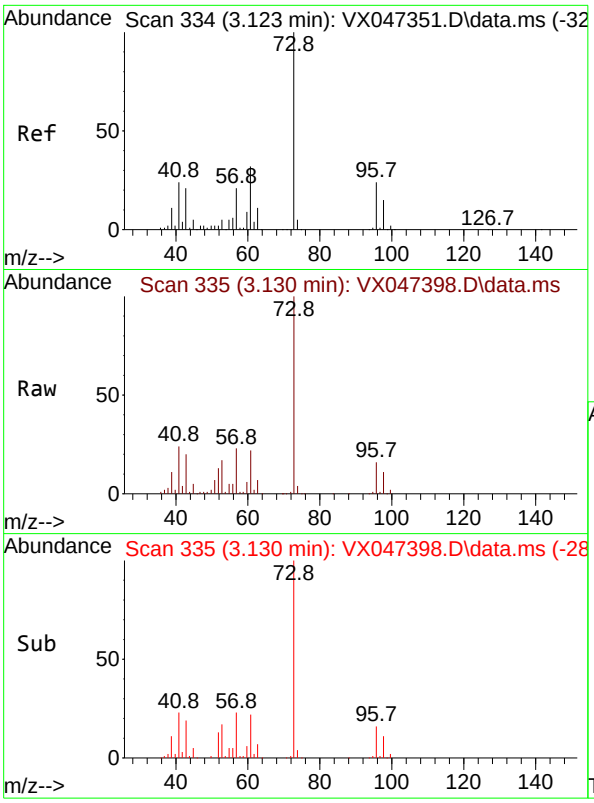


#18
Methyl Acetate
Concen: 54.297 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 43 Resp: 176982

Ion	Ratio	Lower	Upper
43	100		
74	23.2	18.4	27.6

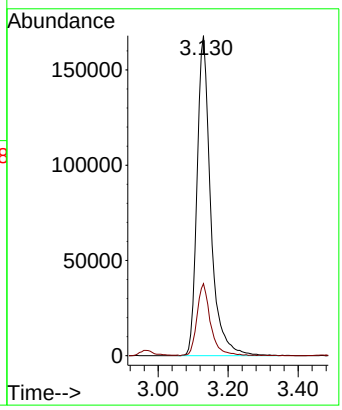




#19
Methyl tert-butyl Ether
Concen: 49.516 ug/l
RT: 3.130 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 73 Resp: 45349

Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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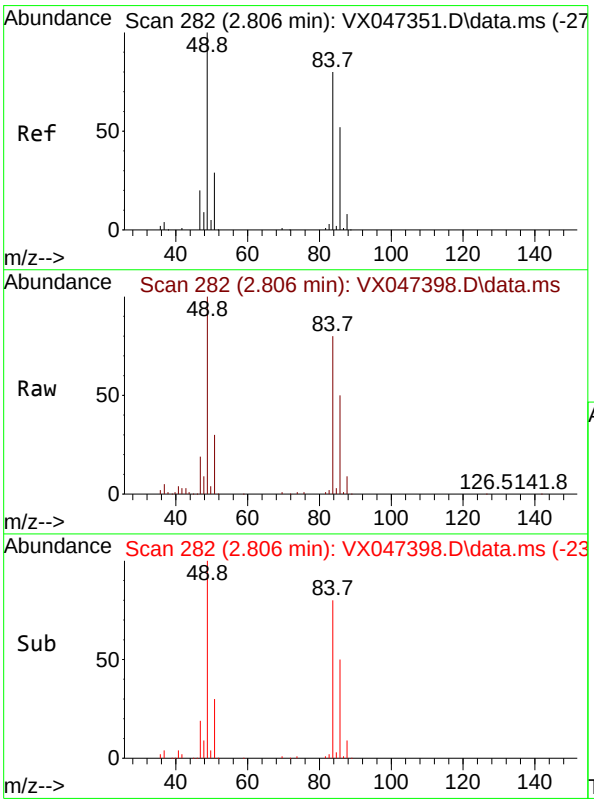
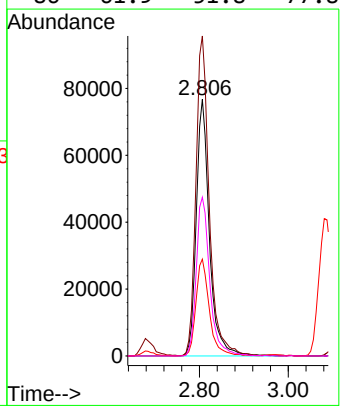
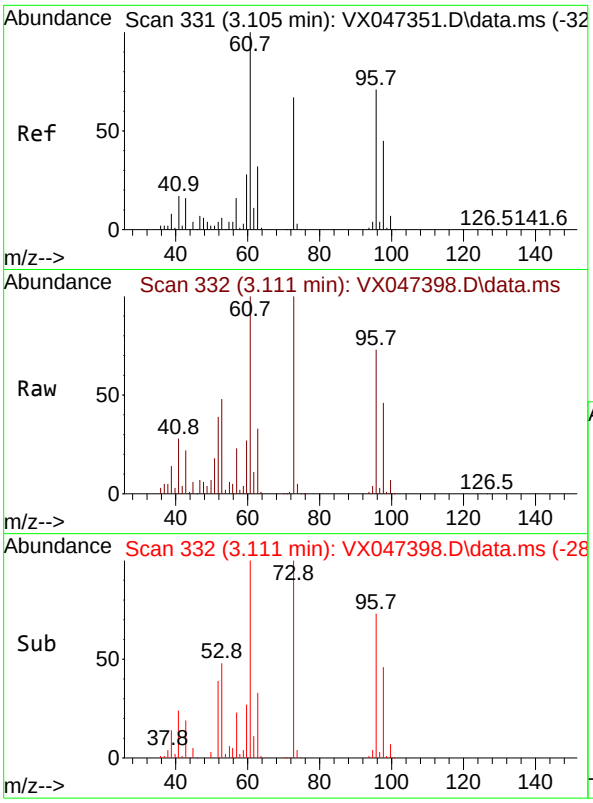


#20
Methylene Chloride
Concen: 47.329 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 84 Resp: 157641

Ion	Ratio	Lower	Upper
84	100		
49	124.6	100.1	150.1
51	37.7	29.5	44.3
86	61.9	51.8	77.8

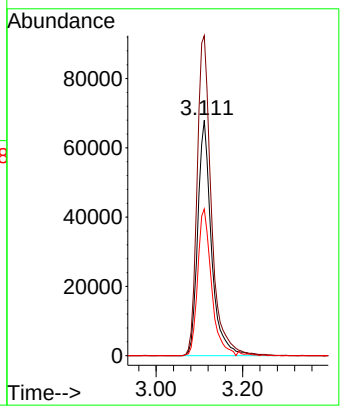




#21
trans-1,2-Dichloroethene
Concen: 46.767 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 96 Resp: 14943

Ion	Ratio	Lower	Upper
96	100		
61	136.0	112.6	169.0
98	64.3	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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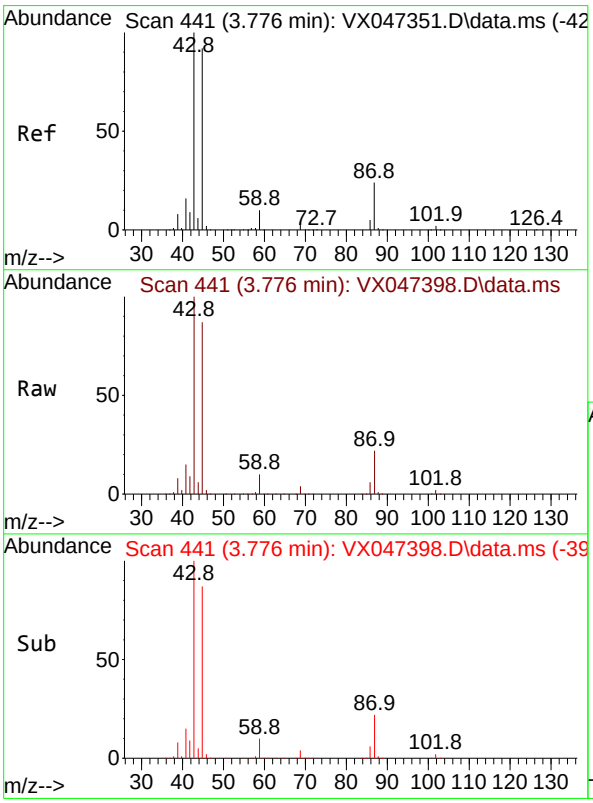
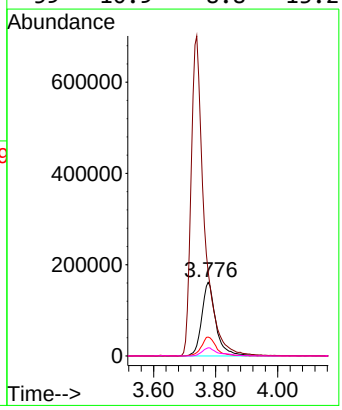
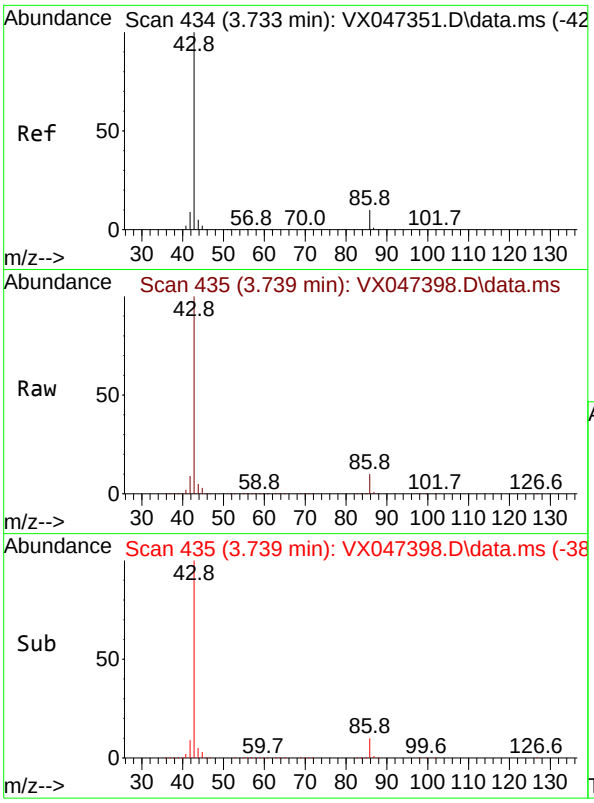


#22
Diisopropyl ether
Concen: 49.473 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 45 Resp: 511346

Ion	Ratio	Lower	Upper
45	100		
43	114.4	86.8	130.2
87	25.6	20.4	30.6
59	10.9	8.8	13.2

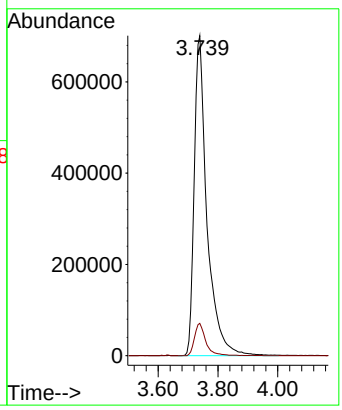




#23
Vinyl Acetate
Concen: 246.075 ug/l
RT: 3.739 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 43 Resp: 208466

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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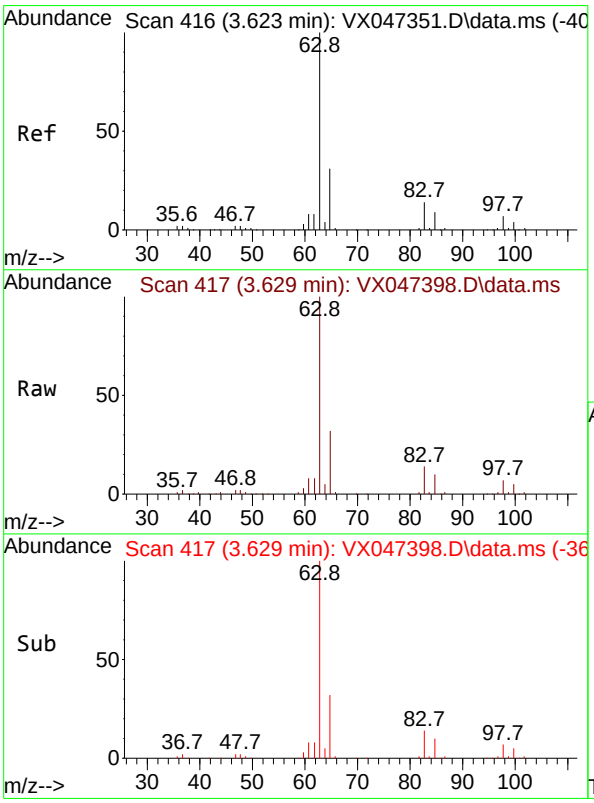
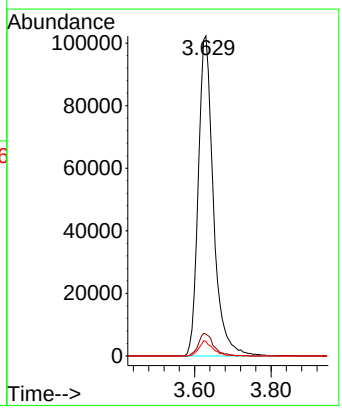
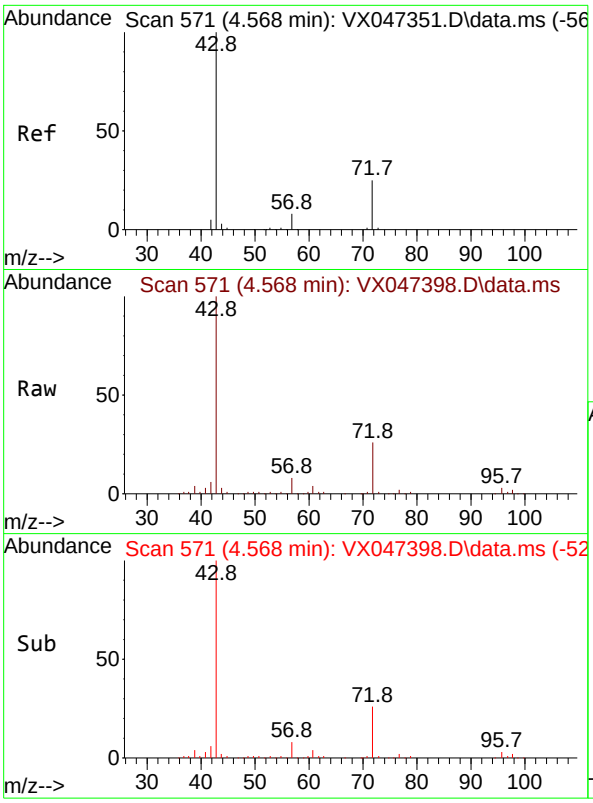


#24
1,1-Dichloroethane
Concen: 47.957 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 63 Resp: 280167

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.3	9.9
100	4.5	2.1	6.3





#25
2-Butanone
Concen: 265.075 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 43 Resp: 43666

Ion	Ratio	Lower	Upper
43	100		
72	25.5	19.8	29.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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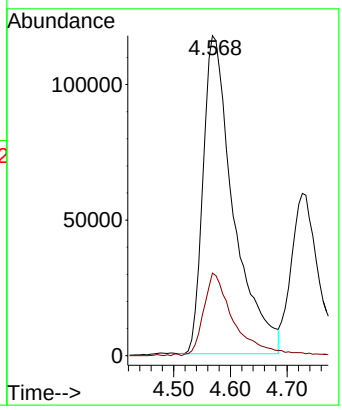
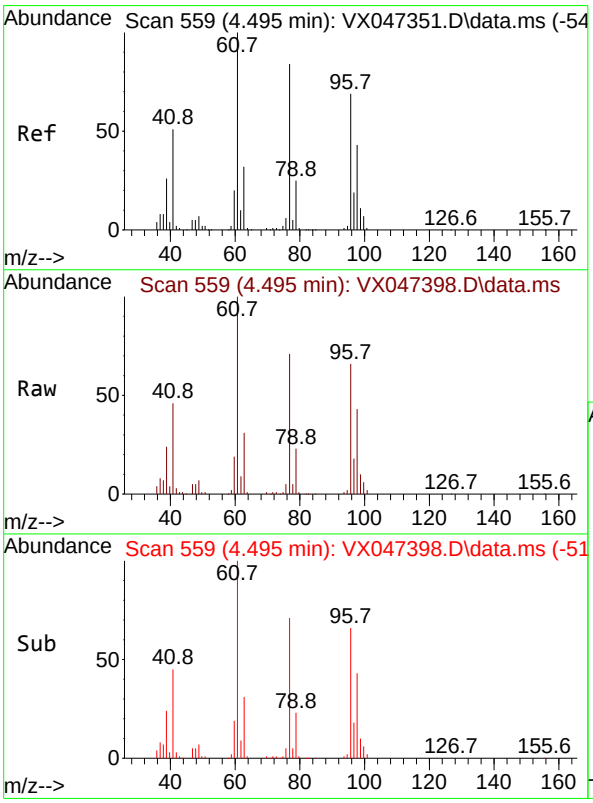
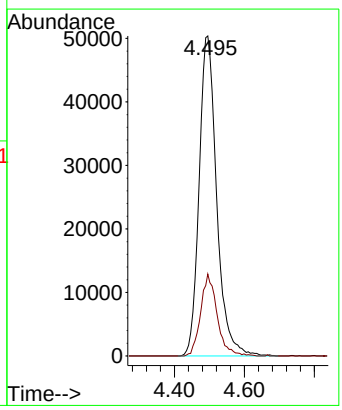


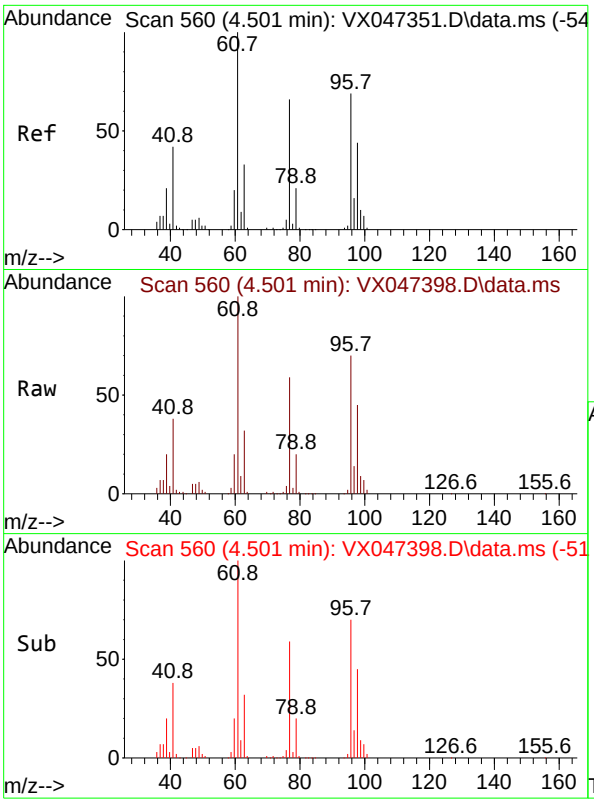


#26
2,2-Dichloropropane
Concen: 39.808 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 77 Resp: 175530

Ion	Ratio	Lower	Upper
77	100		
97	24.0	11.4	34.1

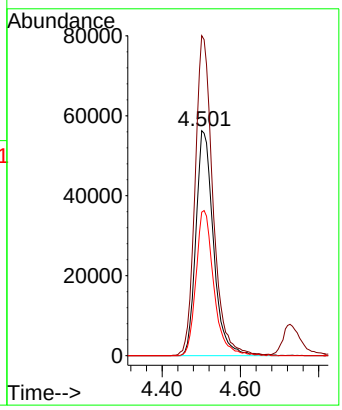




#27
cis-1,2-Dichloroethene
Concen: 47.114 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 96 Resp: 17534

Ion	Ratio	Lower	Upper
96	100		
61	144.5	0.0	296.6
98	65.5	0.0	130.4



Instrument :
MSVOA_X
ClientSampleId :
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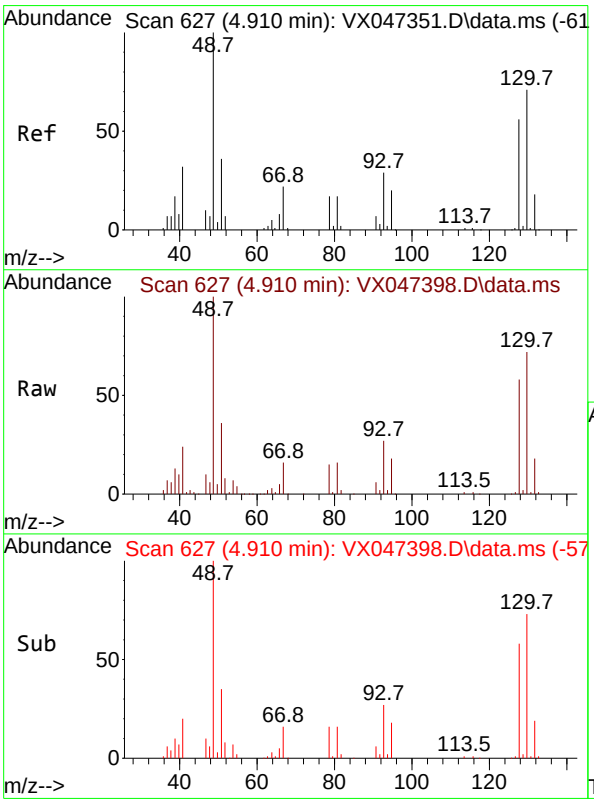
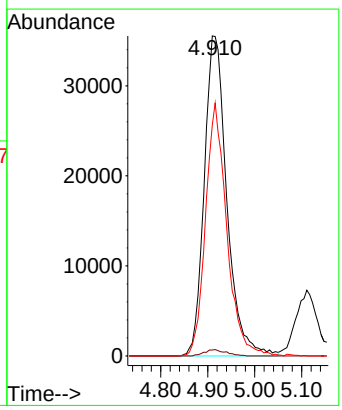
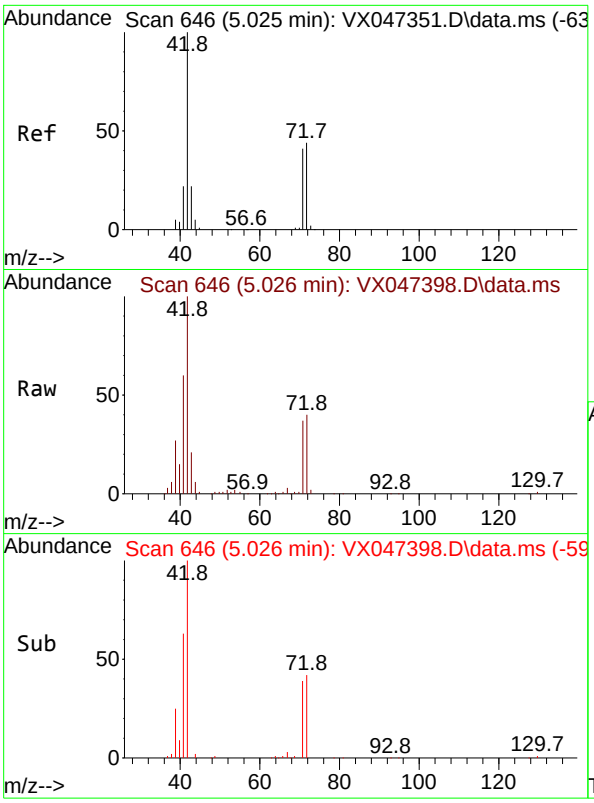


#28
Bromochloromethane
Concen: 48.810 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 49 Resp: 118660

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	74.3	59.8	89.6





#29
Tetrahydrofuran
Concen: 266.507 ug/l
RT: 5.026 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 42 Resp: 28376

Ion	Ratio	Lower	Upper
42	100		
72	42.9	34.6	51.8
71	38.1	32.6	49.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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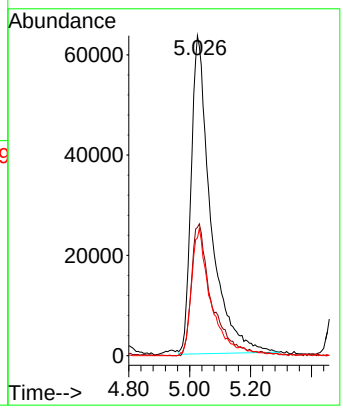
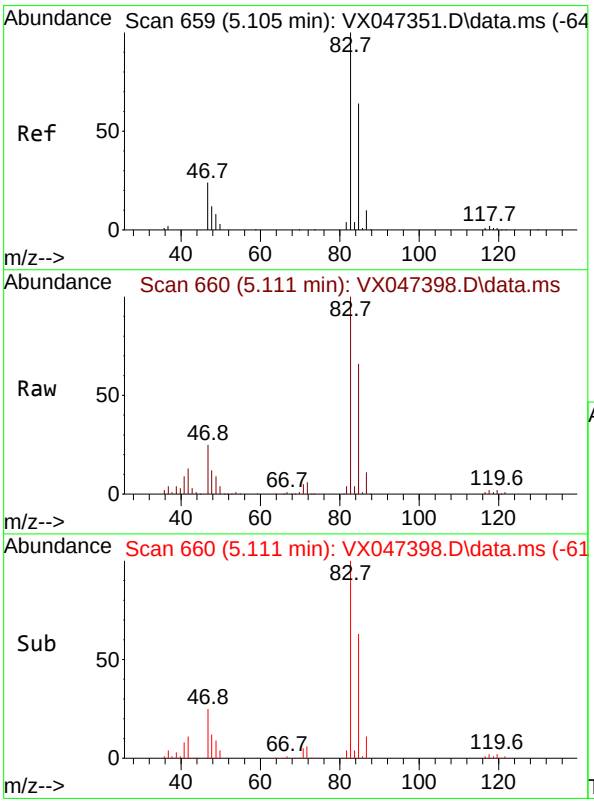
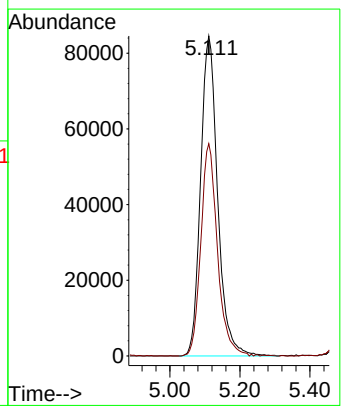


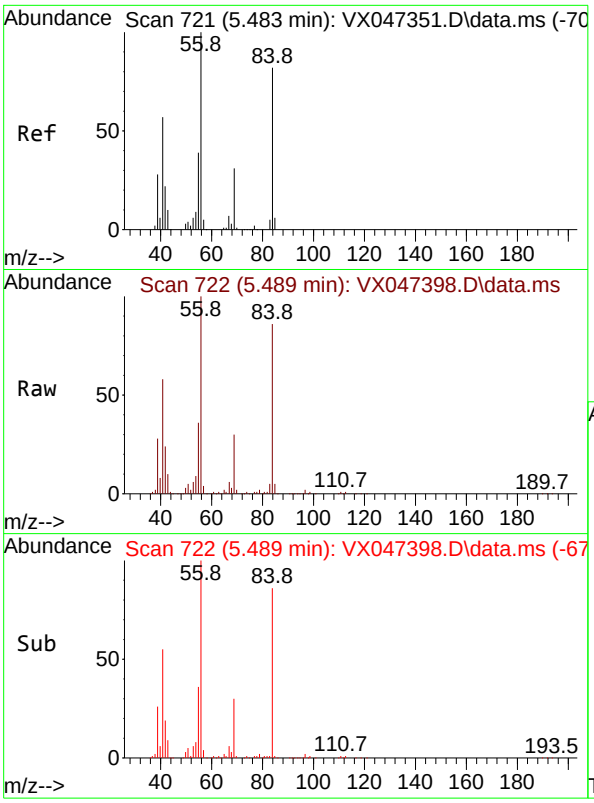


#30
Chloroform
Concen: 47.982 ug/l
RT: 5.111 min Scan# 660
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 83 Resp: 286078

Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.2	76.8

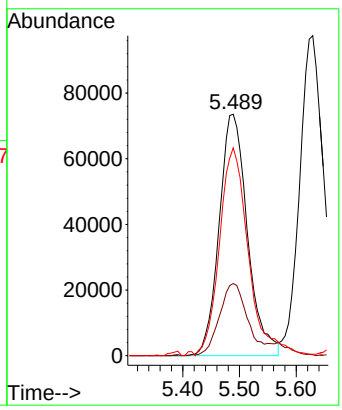




#31
Cyclohexane
Concen: 47.287 ug/l
RT: 5.489 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 56 Resp: 25465

Ion	Ratio	Lower	Upper
56	100		
69	29.4	24.3	36.5
84	84.2	65.3	97.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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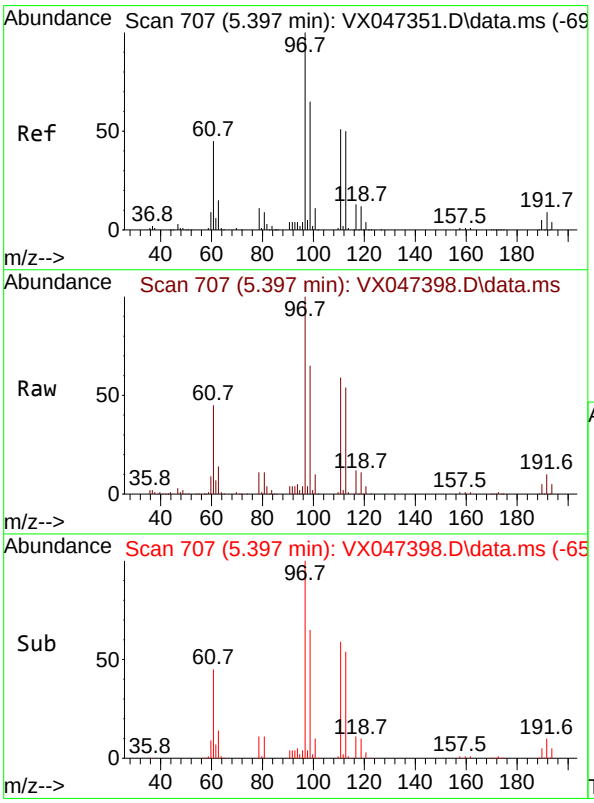
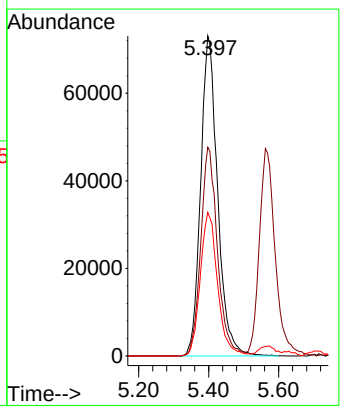
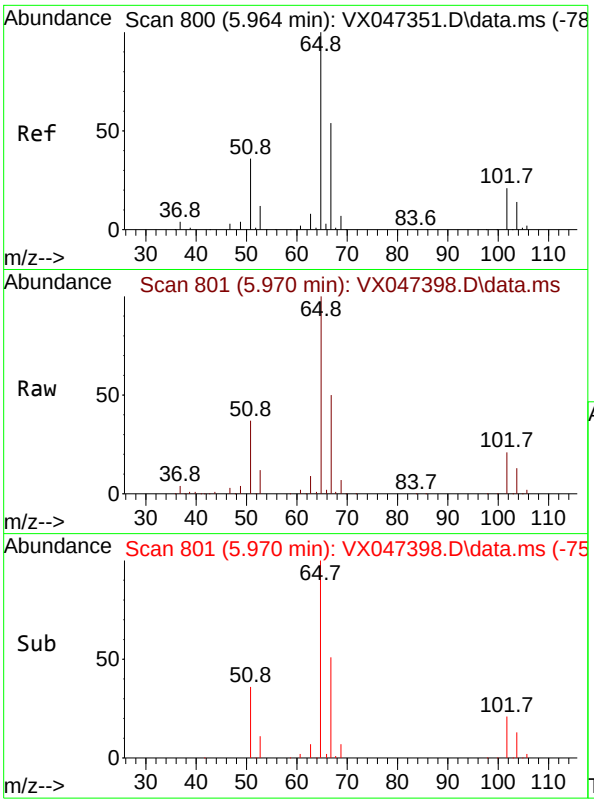


#32
1,1,1-Trichloroethane
Concen: 47.909 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 97 Resp: 245866

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.4	77.0
61	45.9	35.7	53.5





#33
1,2-Dichloroethane-d4
Concen: 50.620 ug/l
RT: 5.970 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 65 Resp: 16939

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	106.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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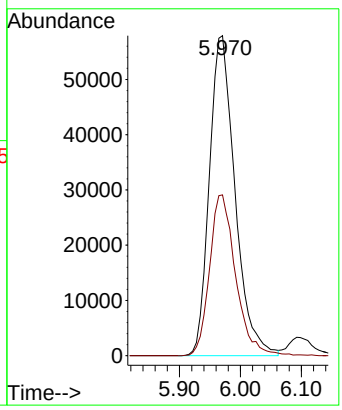
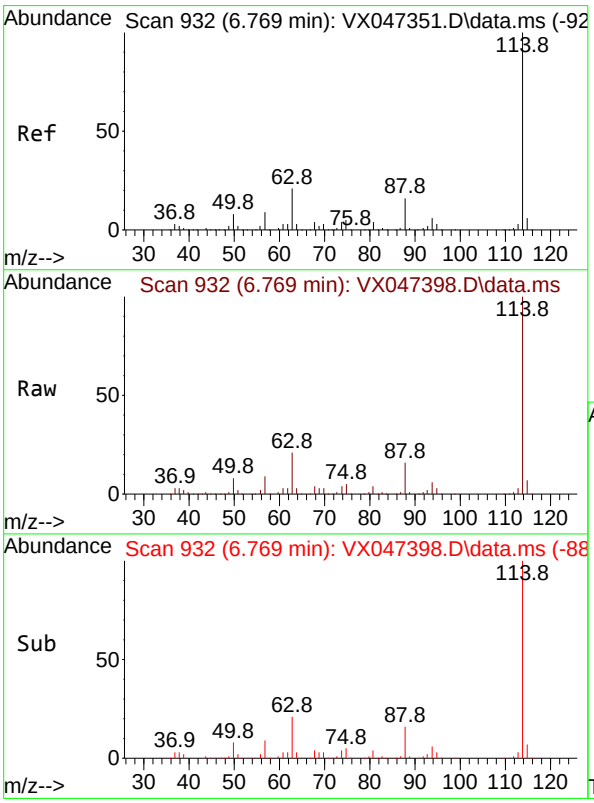
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

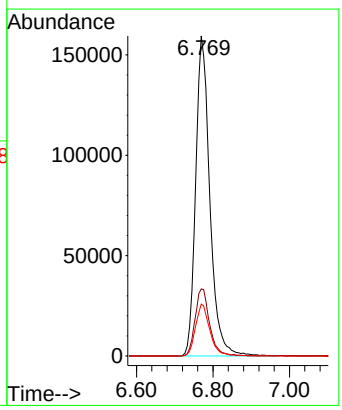


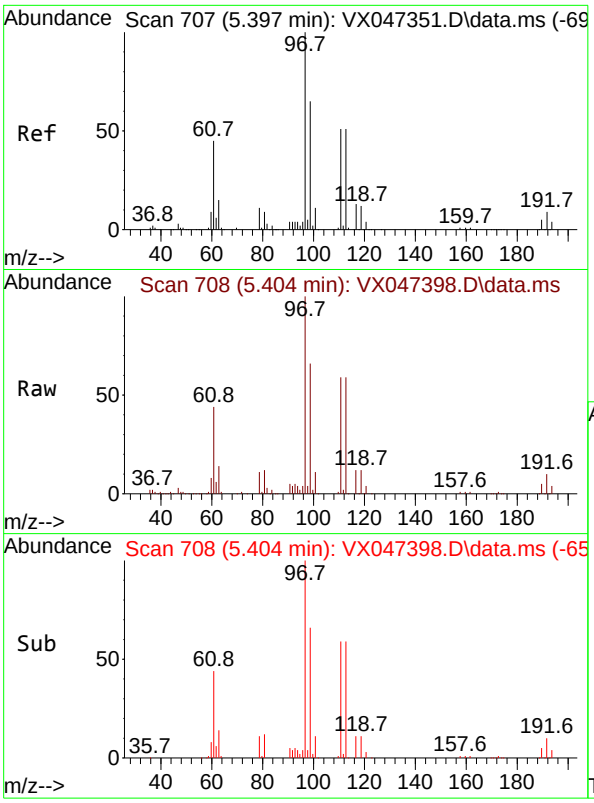


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:114 Resp: 409468

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.4
88	16.2	0.0	33.0

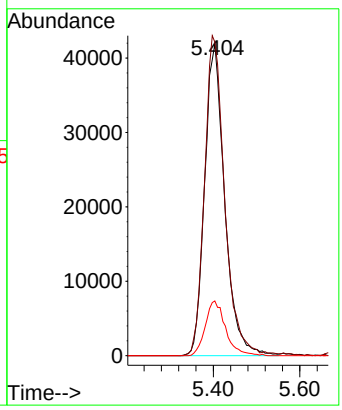




#35
Dibromofluoromethane
Concen: 50.669 ug/l
RT: 5.404 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:113 Resp: 13465

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.4	122.2
192	17.8	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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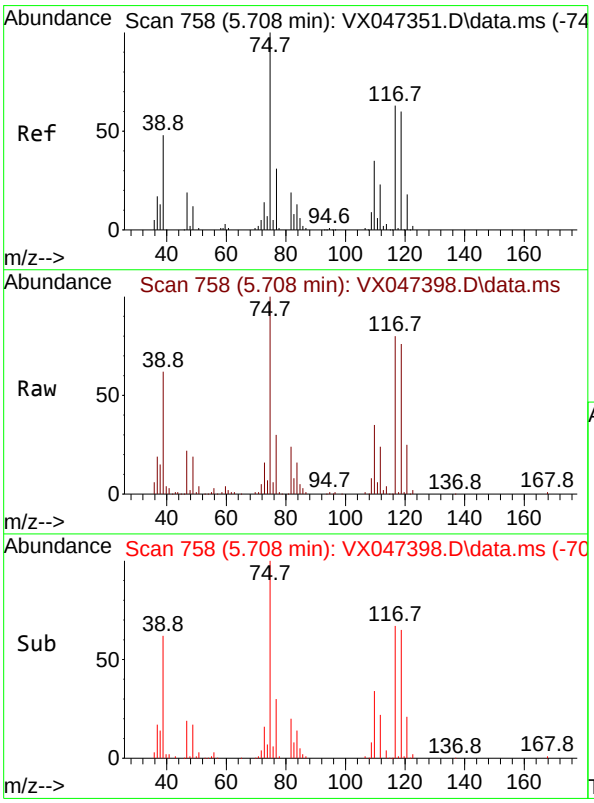
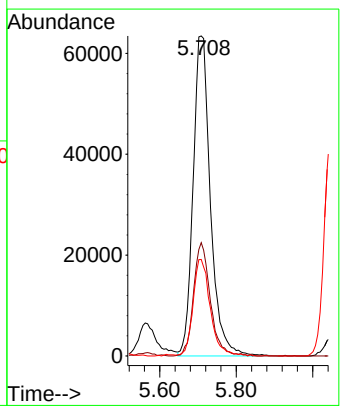
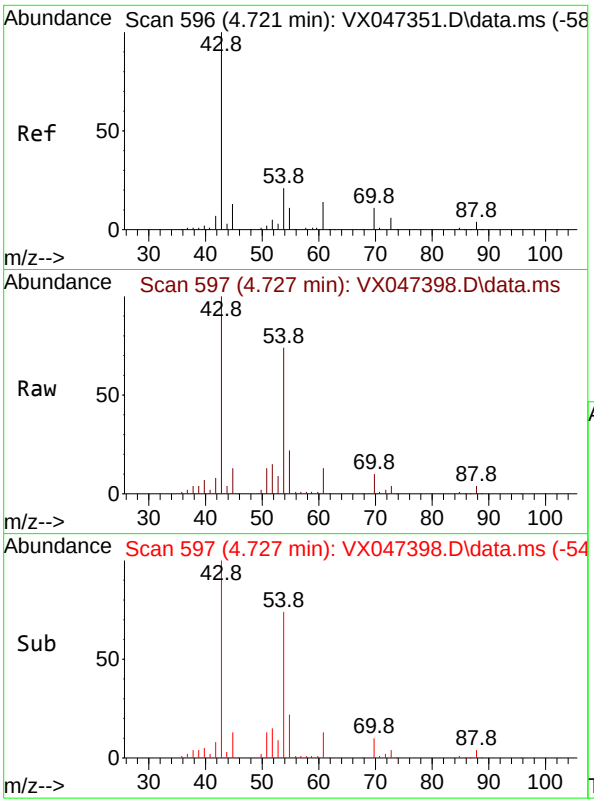


#36
1,1-Dichloropropene
Concen: 47.627 ug/l
RT: 5.708 min Scan# 758
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 75 Resp: 199797

Ion	Ratio	Lower	Upper
75	100		
110	34.3	17.4	52.2
77	30.1	24.4	36.6





#37
Ethyl Acetate
Concen: 48.337 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 43 Resp: 21051

Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.4	14.2
70	9.7	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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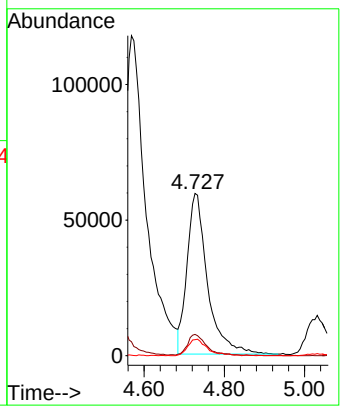
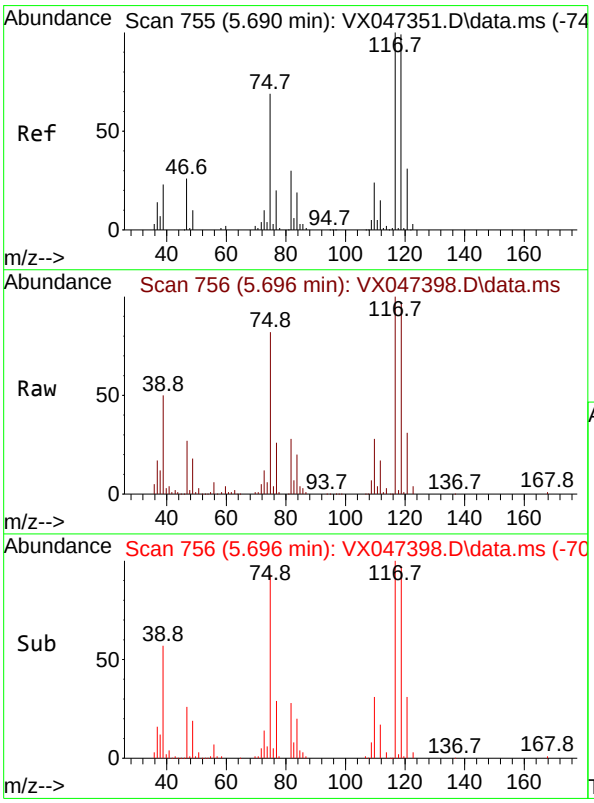
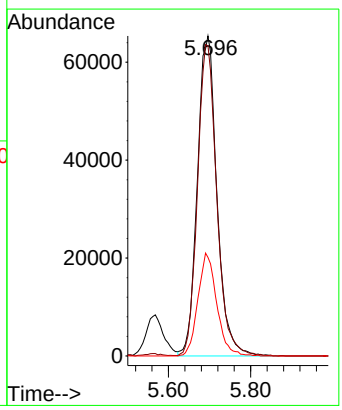


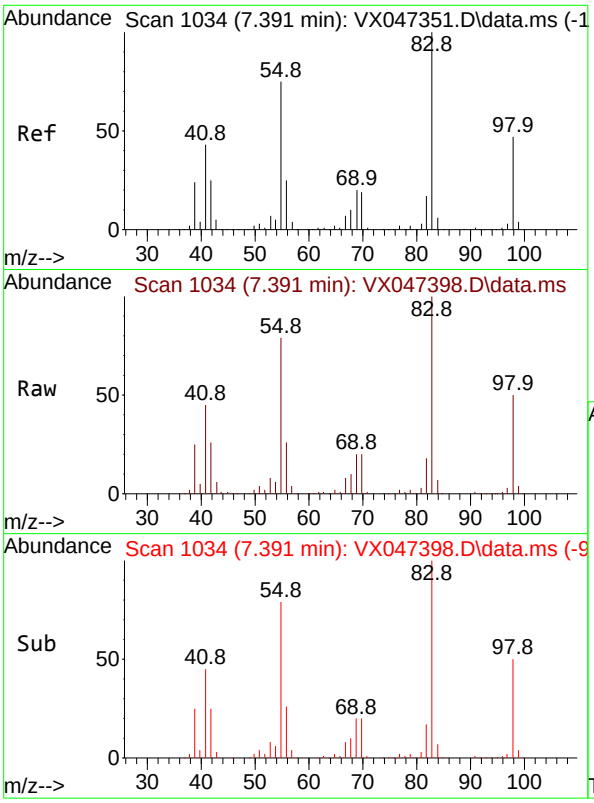


#38
Carbon Tetrachloride
Concen: 47.116 ug/l
RT: 5.696 min Scan# 756
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:117 Resp: 215992

Ion	Ratio	Lower	Upper
117	100		
119	97.0	78.5	117.7
121	30.8	24.7	37.1

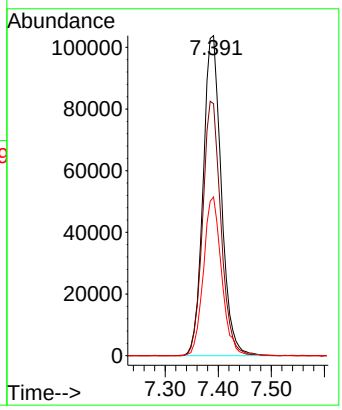




#39
Methylcyclohexane
Concen: 47.227 ug/l
RT: 7.391 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 83 Resp: 24712

Ion	Ratio	Lower	Upper
83	100		
55	78.8	60.0	90.0
98	49.6	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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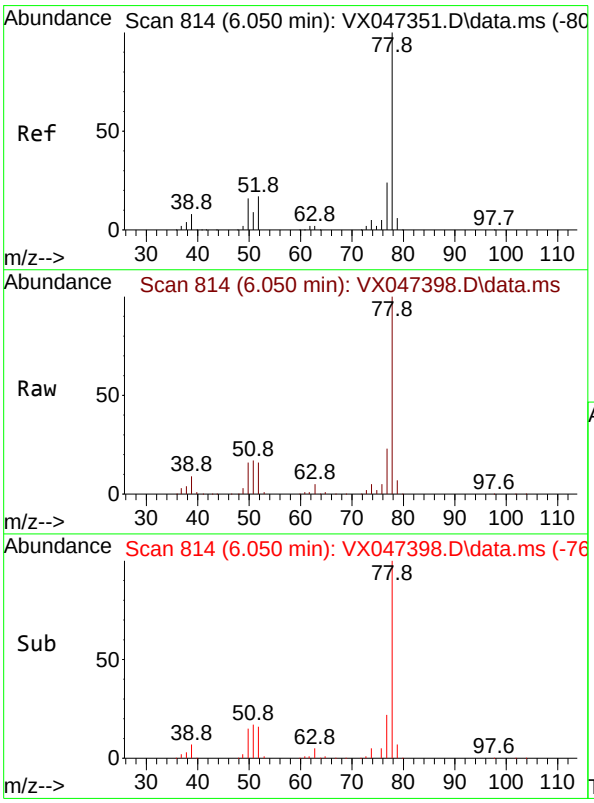
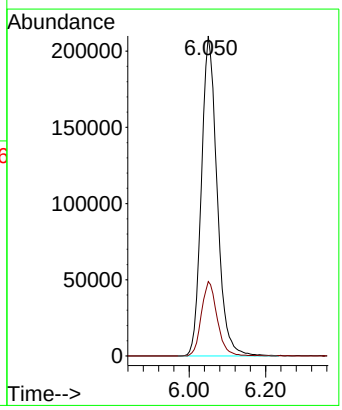
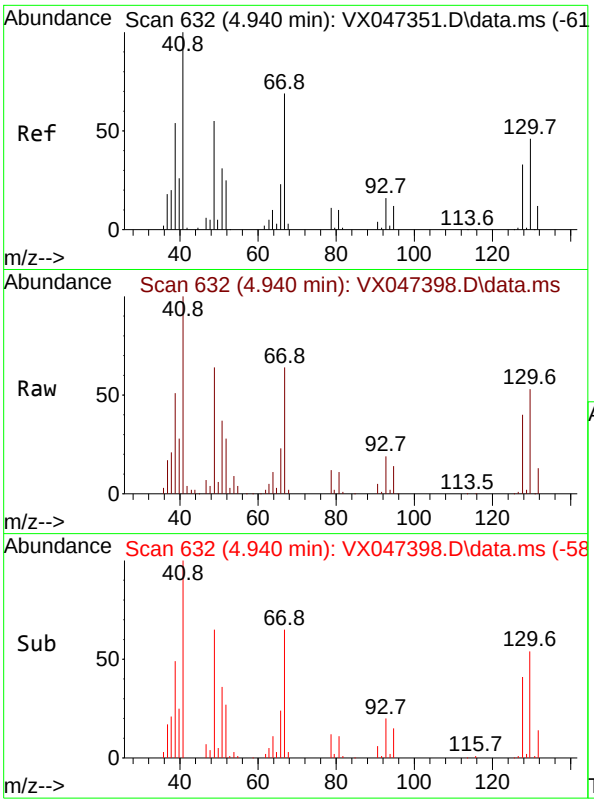


#40
Benzene
Concen: 47.641 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 78 Resp: 598209

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.4

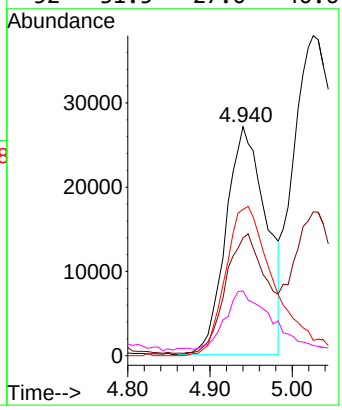




#41
Methacrylonitrile
Concen: 50.045 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 41 Resp: 9190

Ion	Ratio	Lower	Upper
41	100		
39	53.3	45.4	68.2
67	84.4	64.0	96.0
52	31.5	27.0	40.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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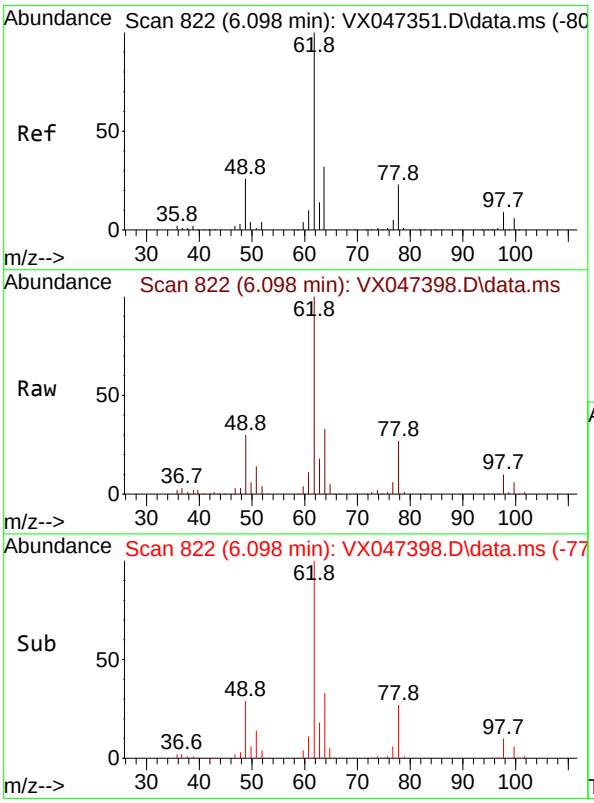
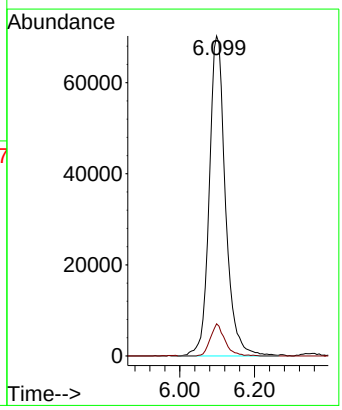
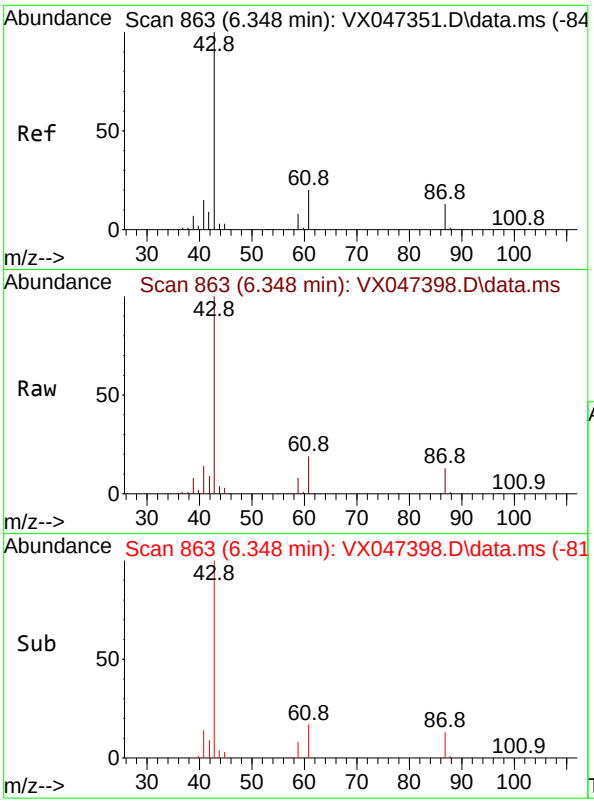


#42
1,2-Dichloroethane
Concen: 47.640 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 62 Resp: 211887

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	18.0

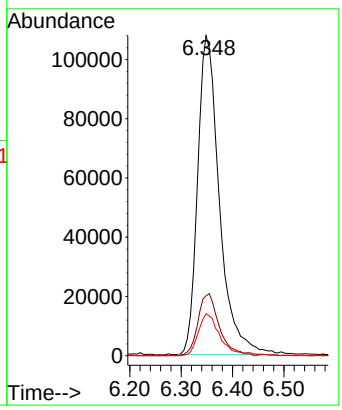




#43
Isopropyl Acetate
Concen: 50.686 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 43 Resp: 31711

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.4	23.0
87	12.8	10.2	15.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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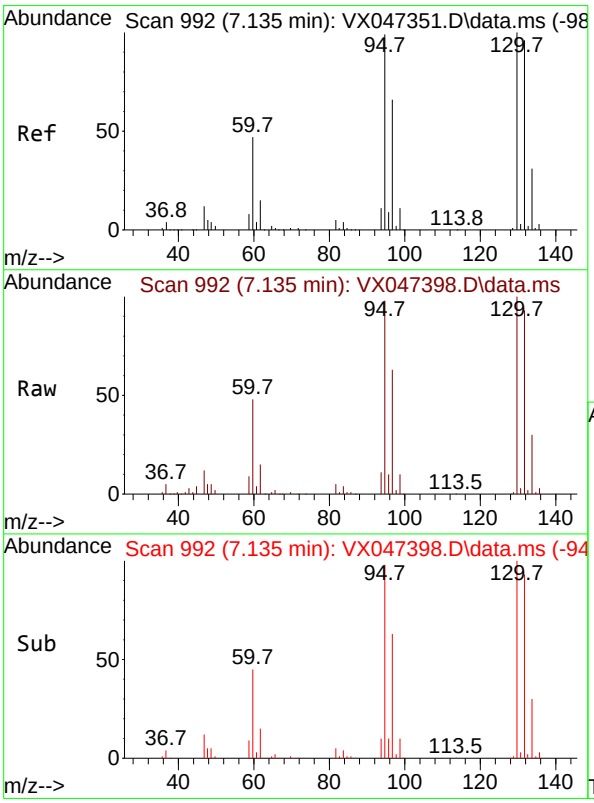
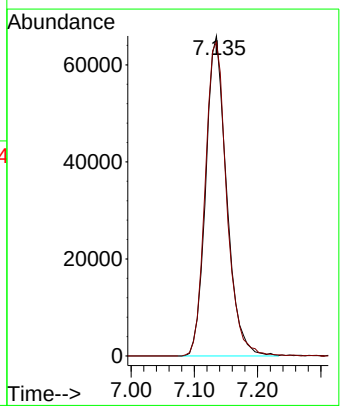
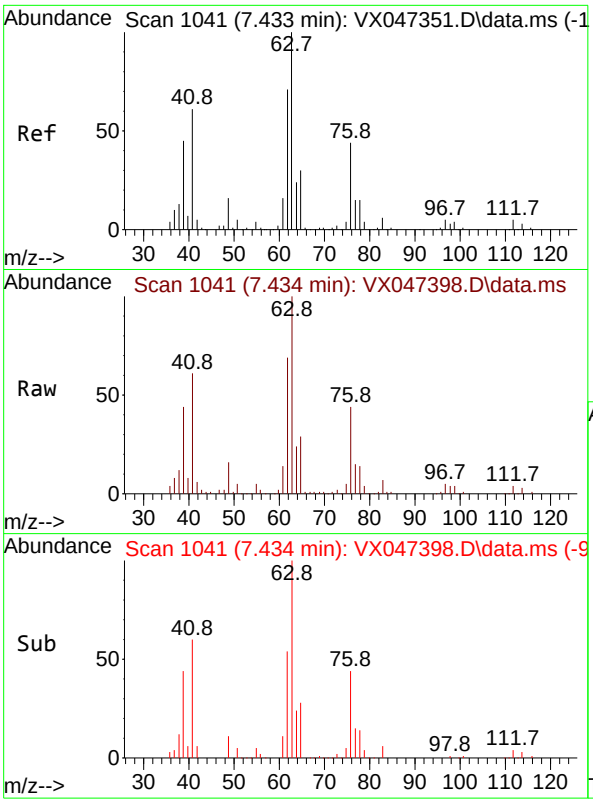


#44
Trichloroethene
Concen: 47.029 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:130 Resp: 151205

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	198.6

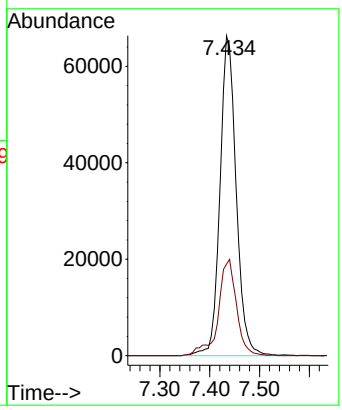




#45
1,2-Dichloropropane
Concen: 47.663 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 63 Resp: 14993

Ion	Ratio	Lower	Upper
63	100		
65	28.6	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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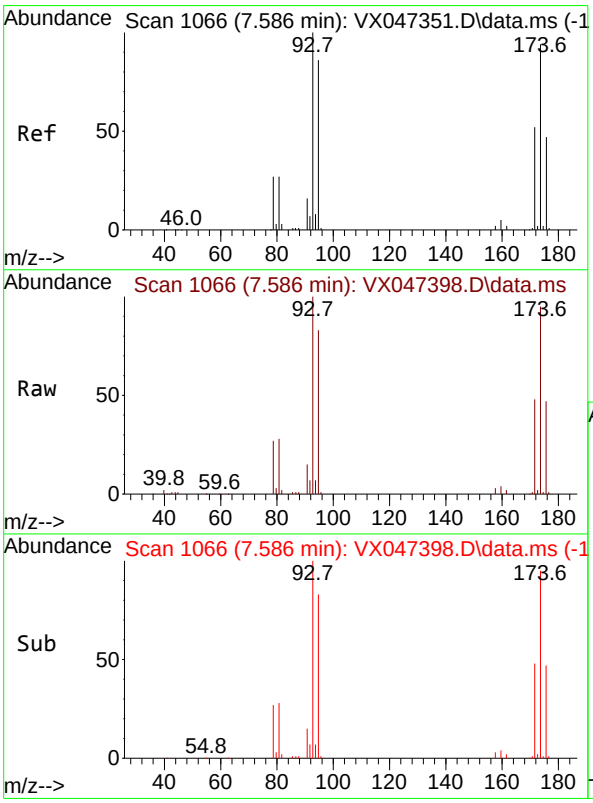
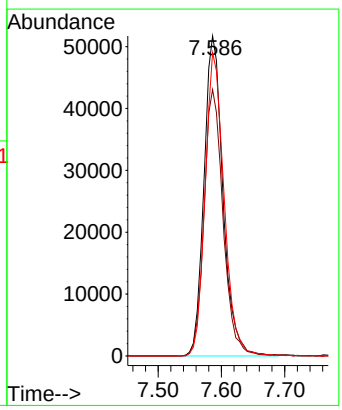
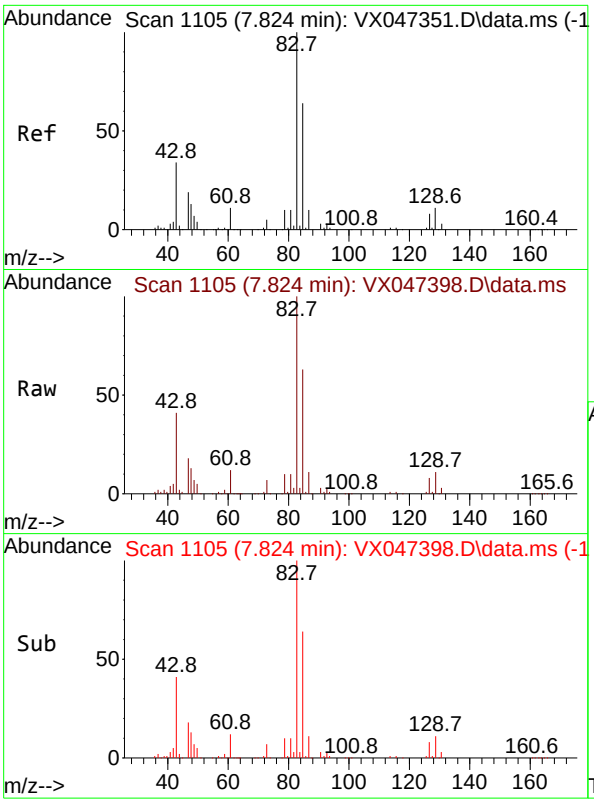


#46
Dibromomethane
Concen: 47.328 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 93 Resp: 108086

Ion	Ratio	Lower	Upper
93	100		
95	83.5	68.0	102.0
174	94.4	75.8	113.6

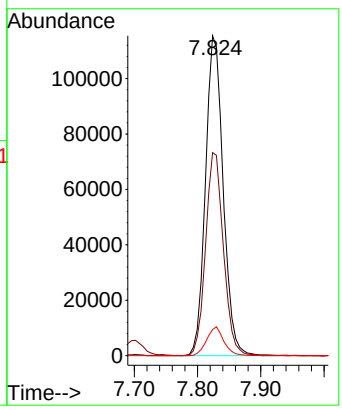




#47
Bromodichloromethane
Concen: 47.489 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 83 Resp: 22483

Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.0	76.6
127	8.1	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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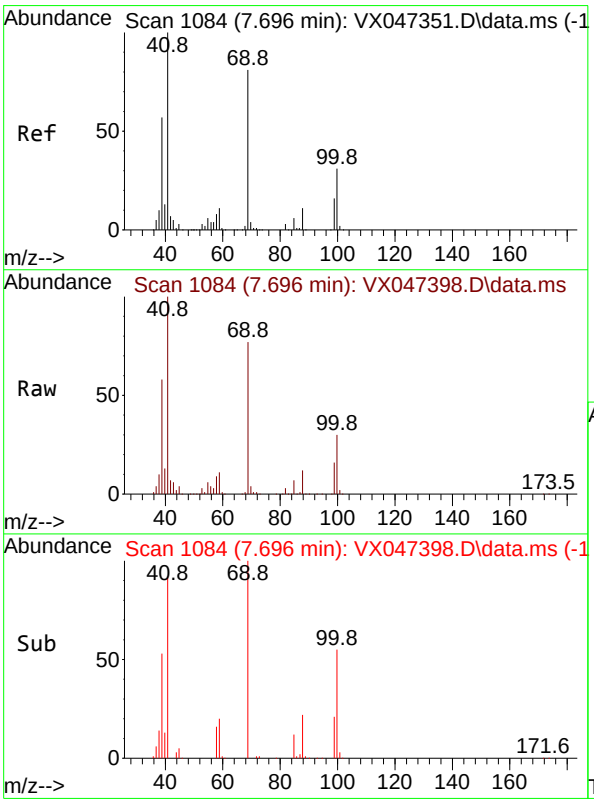
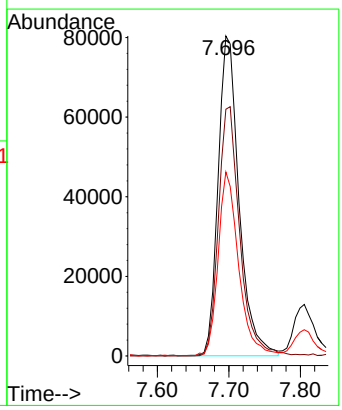
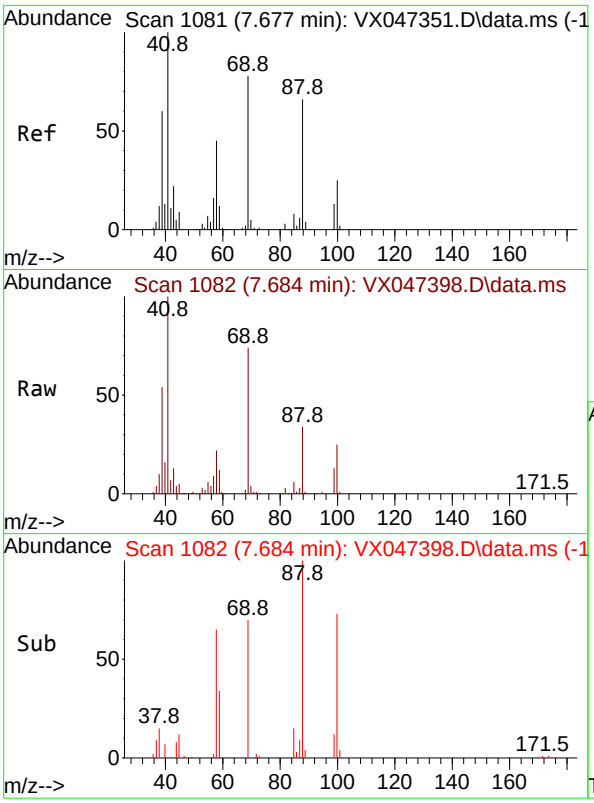


#48
Methyl methacrylate
Concen: 50.264 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 41 Resp: 163233

Ion	Ratio	Lower	Upper
41	100		
69	79.5	65.0	97.4
39	56.0	45.7	68.5





#49
1,4-Dioxane
Concen: 1070.636 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 88 Resp: 3380

Ion	Ratio	Lower	Upper
88	100		
43	38.5	32.4	48.6
58	71.3	56.9	85.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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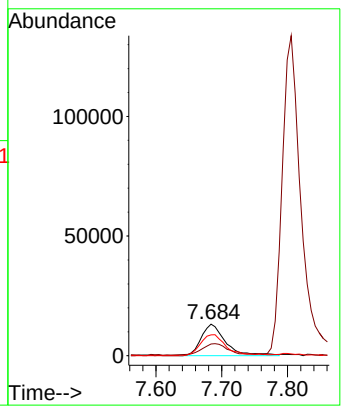
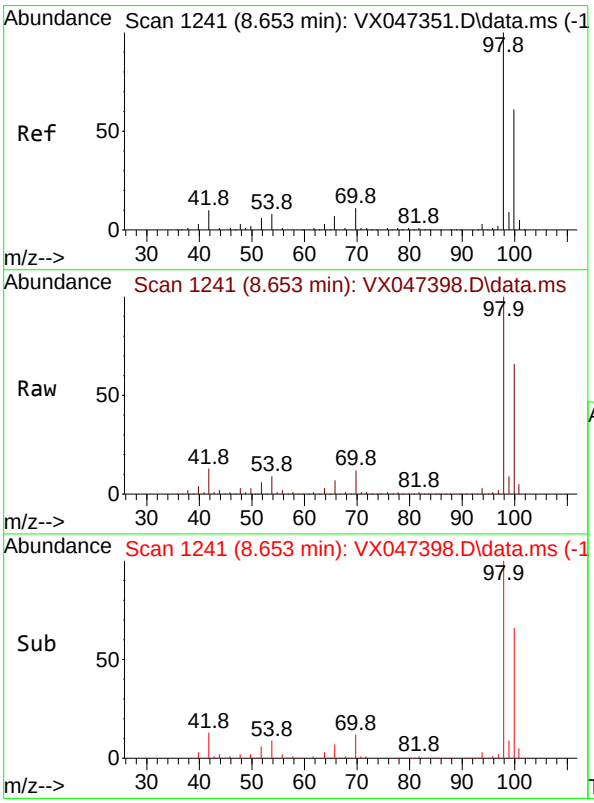
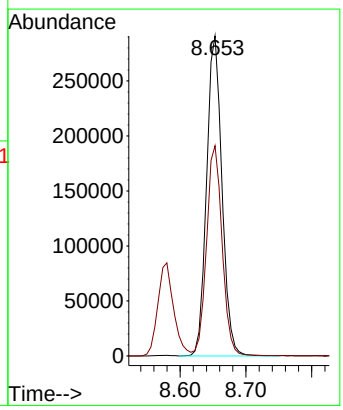


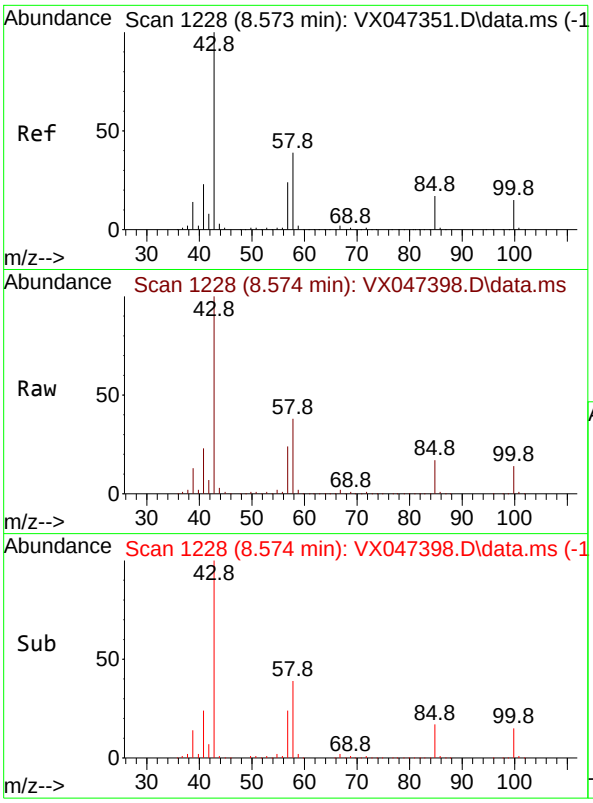


#50
Toluene-d8
Concen: 49.733 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 98 Resp: 472396

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.9	80.9

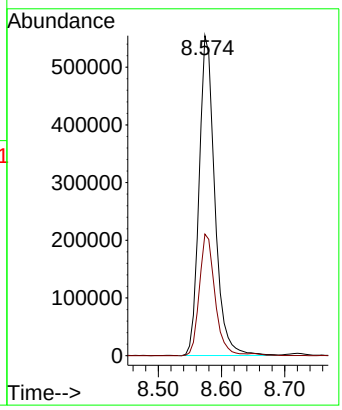




#51
4-Methyl-2-Pentanone
Concen: 265.854 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 43 Resp: 95716

Ion	Ratio	Lower	Upper
43	100		
58	37.9	31.2	46.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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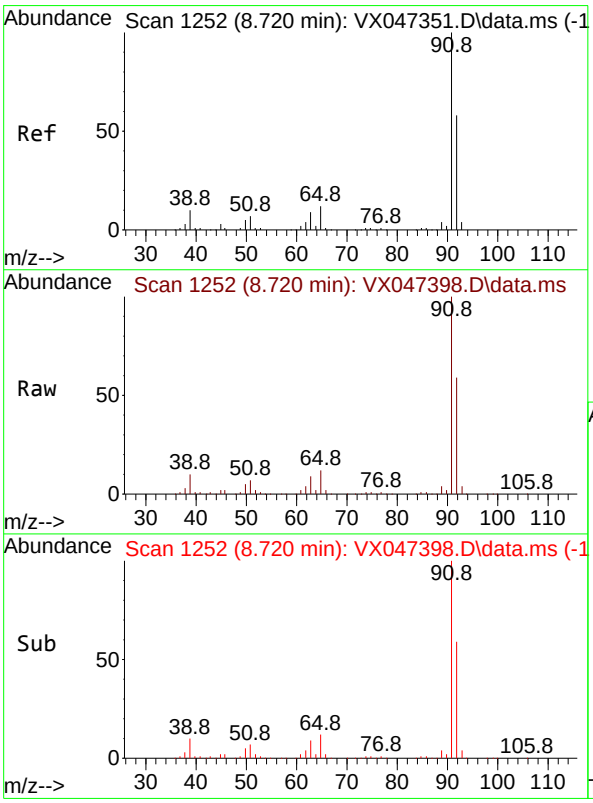
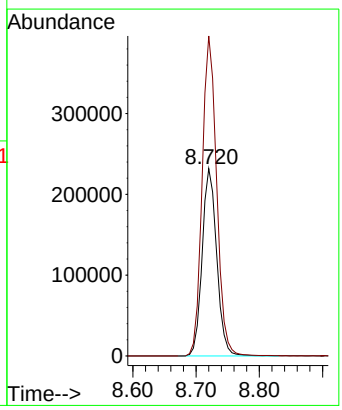
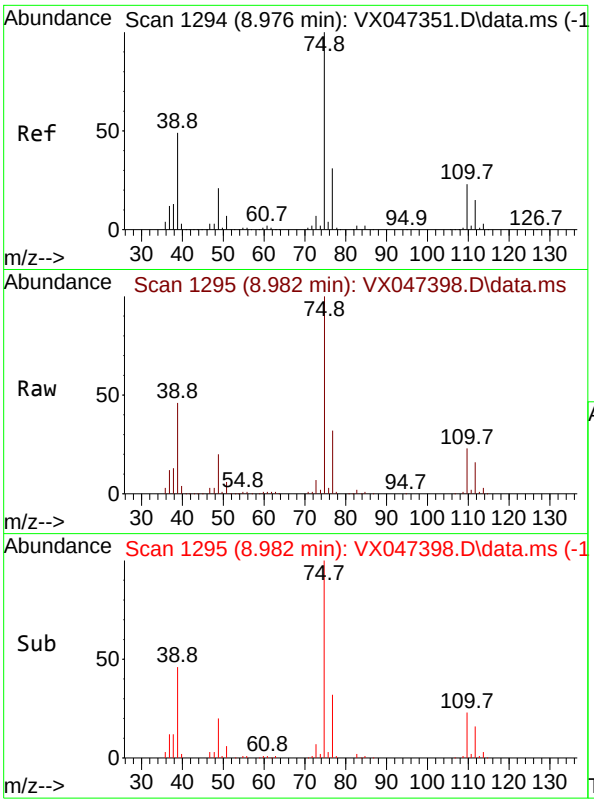


#52
Toluene
Concen: 47.866 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 92 Resp: 371391

Ion	Ratio	Lower	Upper
92	100		
91	170.7	136.3	204.5

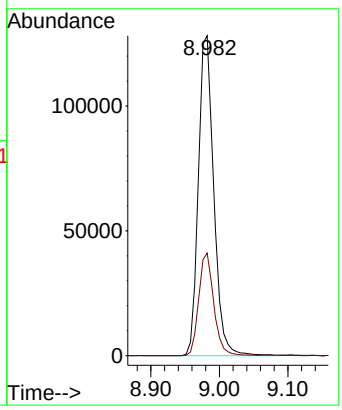




#53
t-1,3-Dichloropropene
Concen: 48.624 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 75 Resp: 20091

Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
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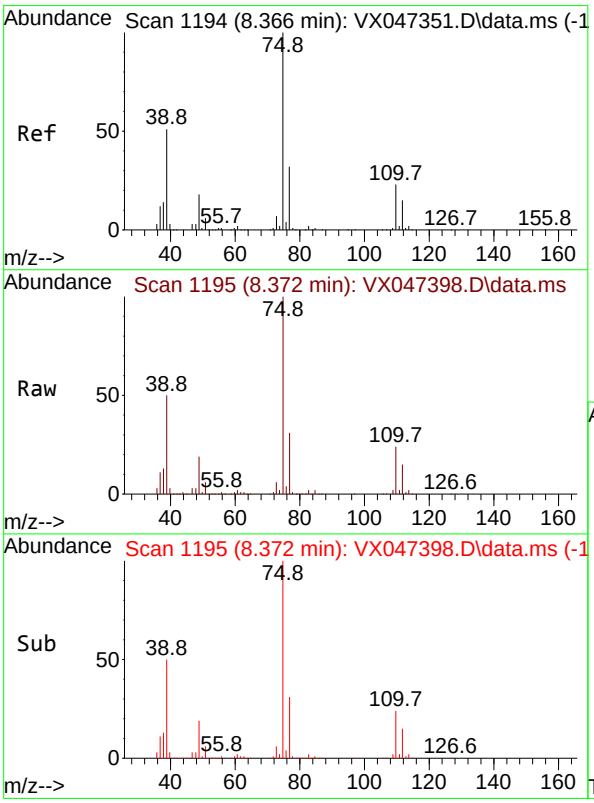
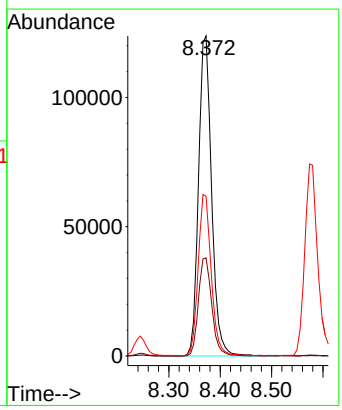
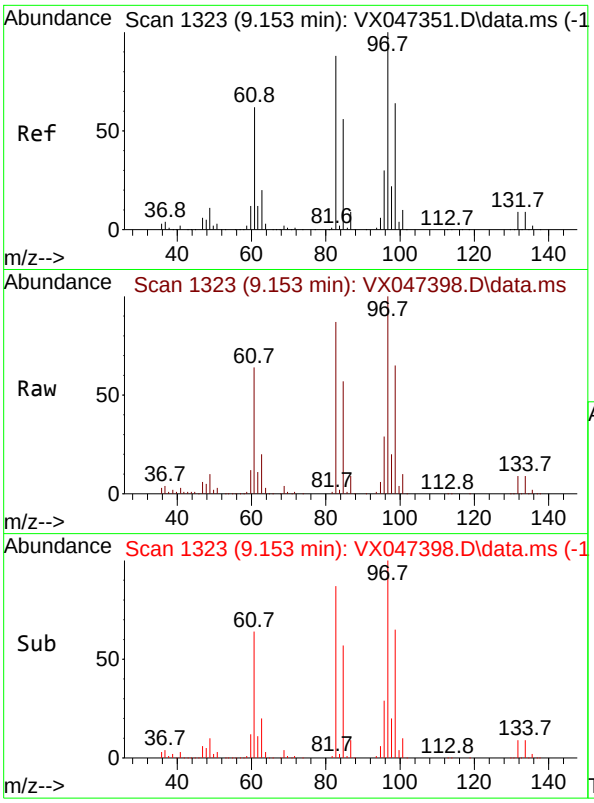


#54
cis-1,3-Dichloropropene
Concen: 46.750 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 75 Resp: 218646

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.6	38.4
39	49.8	40.9	61.3

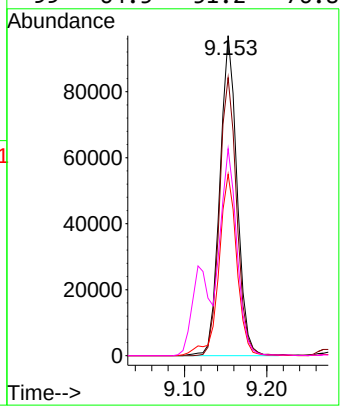




#55
1,1,2-Trichloroethane
Concen: 47.906 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 97 Resp: 14112

Ion	Ratio	Lower	Upper
97	100		
83	86.9	70.6	106.0
85	56.6	44.7	67.1
99	64.5	51.2	76.8



Instrument :
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ClientSampleId :
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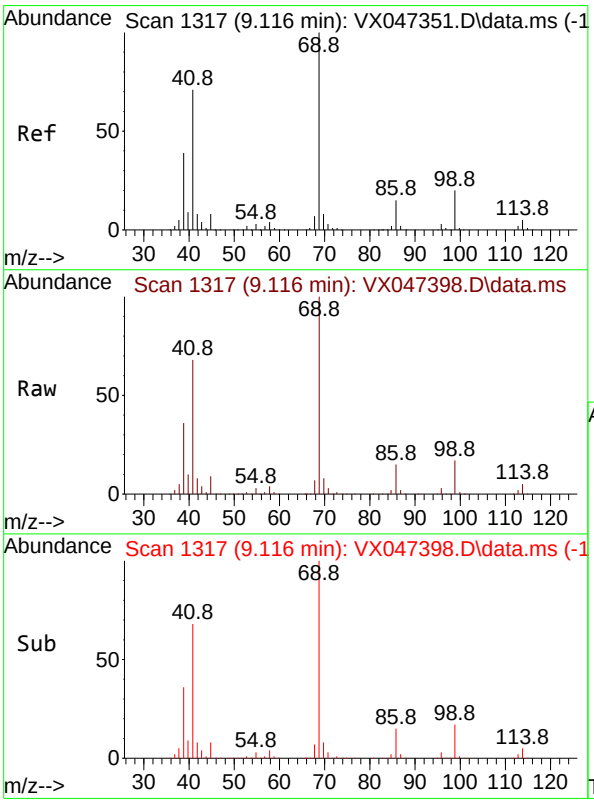
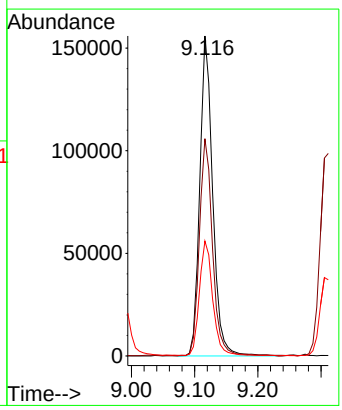
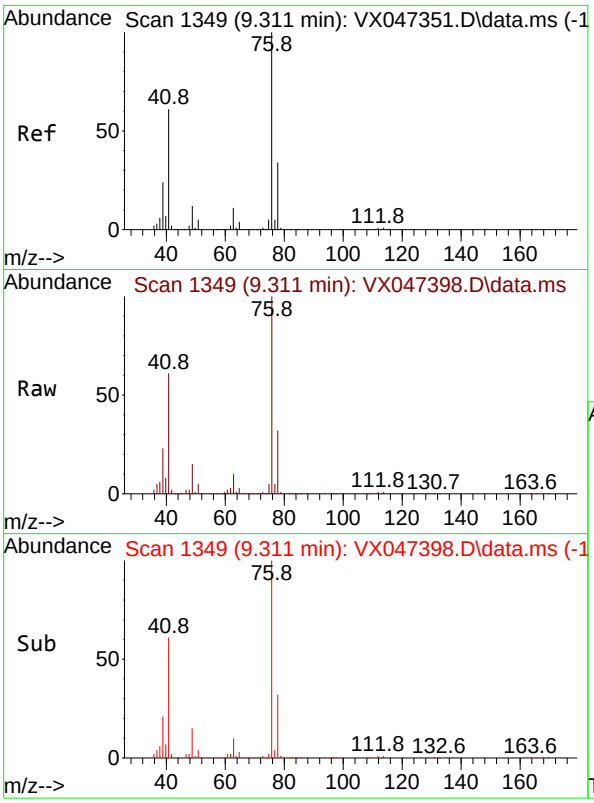


#56
Ethyl methacrylate
Concen: 51.063 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 69 Resp: 221781

Ion	Ratio	Lower	Upper
69	100		
41	69.8	55.3	82.9
39	37.7	30.2	45.2





#57
1,3-Dichloropropane
Concen: 48.073 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 76 Resp: 24132

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.2	39.2

Instrument :
MSVOA_X
ClientSampleId :
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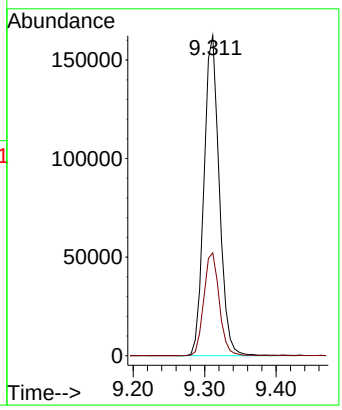
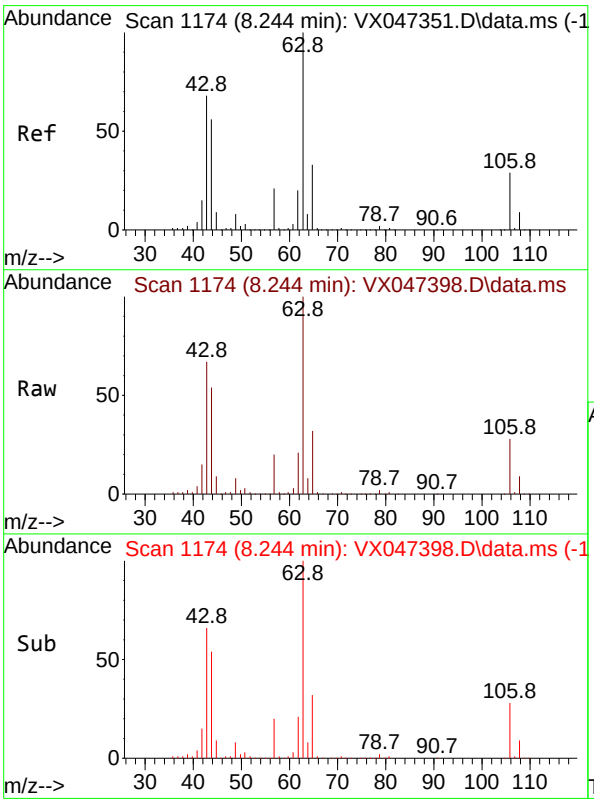
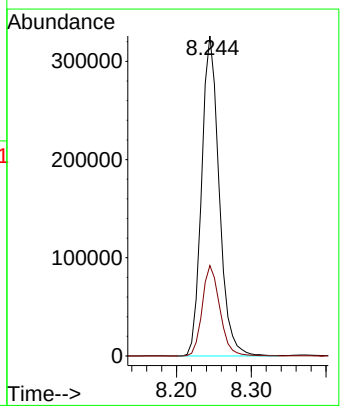


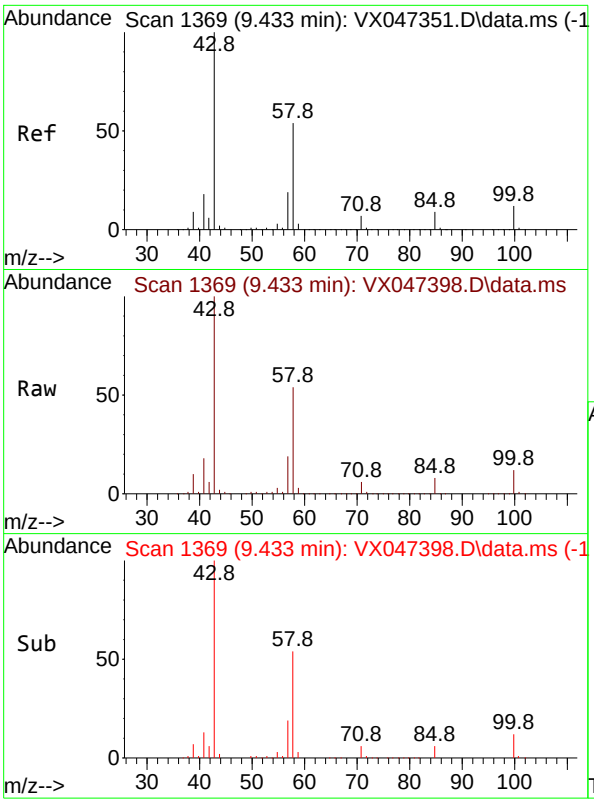


#58
2-Chloroethyl Vinyl ether
Concen: 256.065 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 63 Resp: 531511

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.8	34.2

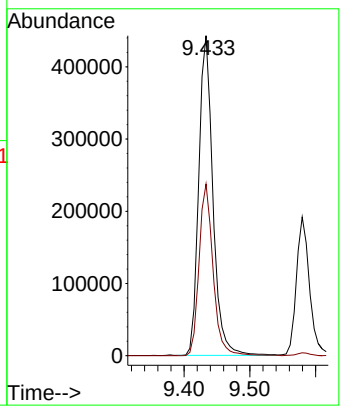




#59
2-Hexanone
Concen: 266.477 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 43 Resp: 66364

Ion	Ratio	Lower	Upper
43	100		
58	53.2	26.9	80.7



Instrument :
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ClientSampleId :
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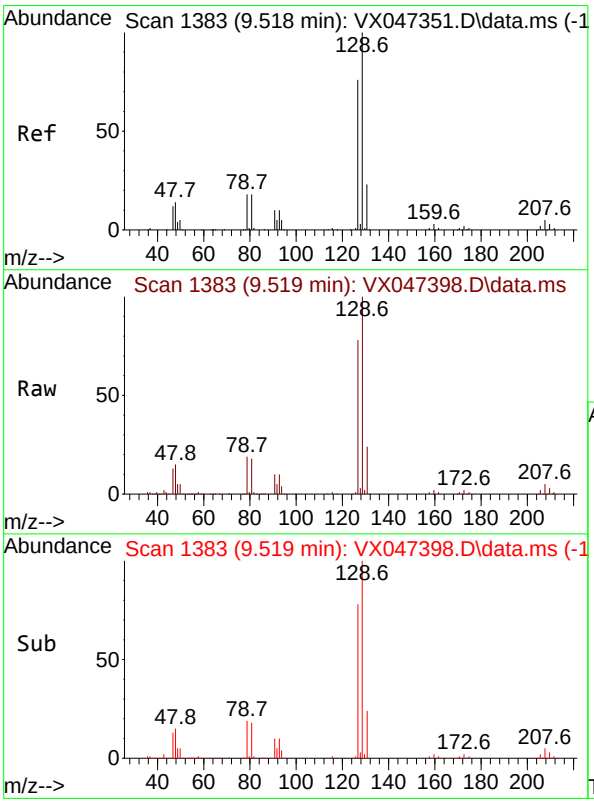
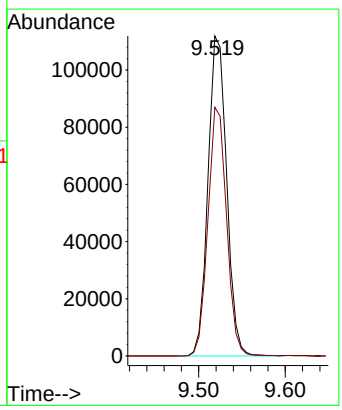
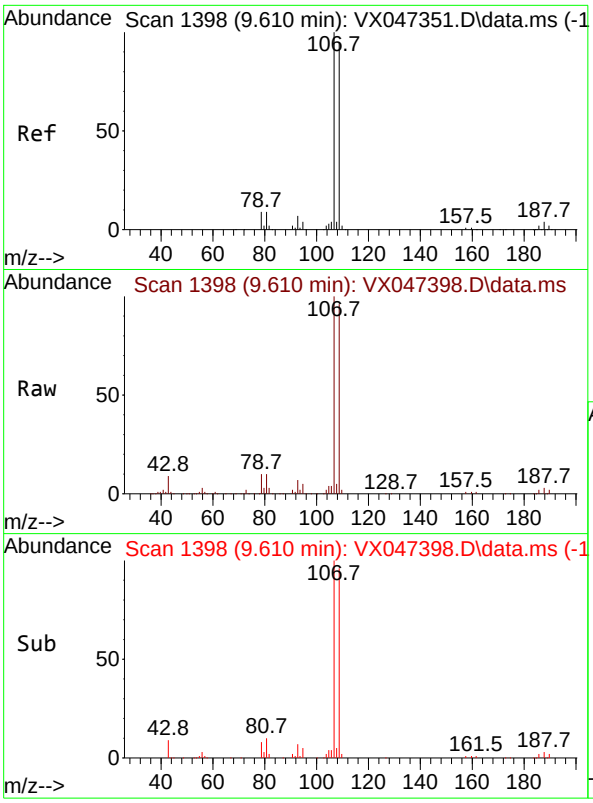


#60
Dibromochloromethane
Concen: 47.846 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:129 Resp: 167507

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.9	116.6

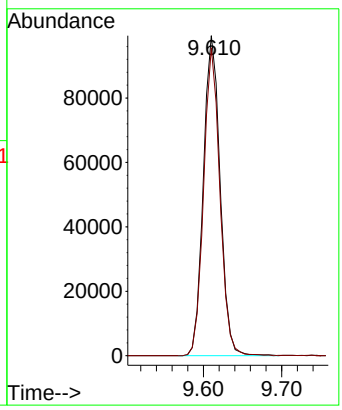




#61
1,2-Dibromoethane
Concen: 48.409 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:107 Resp: 14705

Ion	Ratio	Lower	Upper
107	100		
109	93.6	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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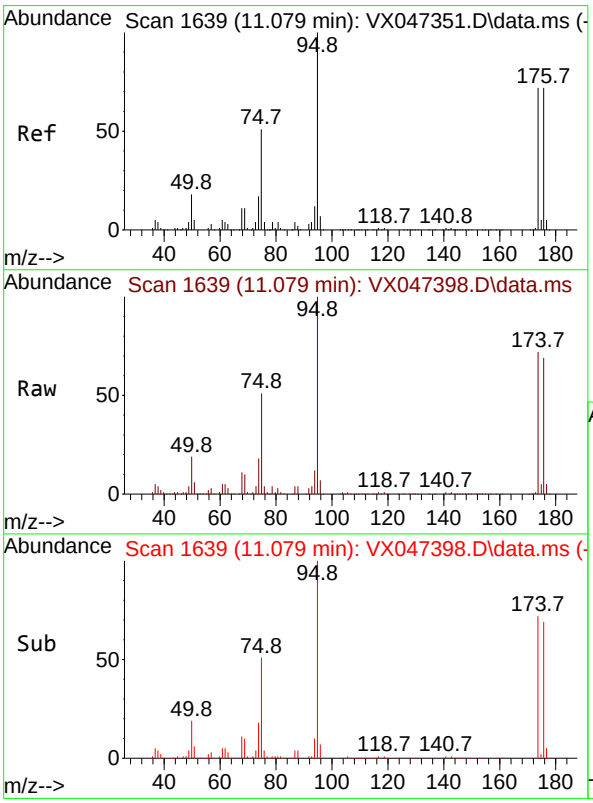
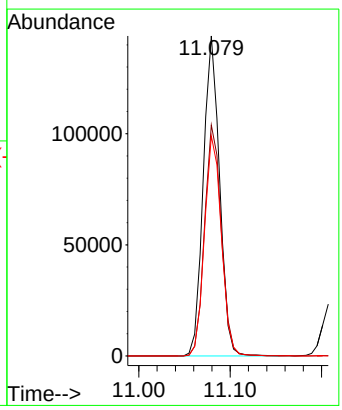
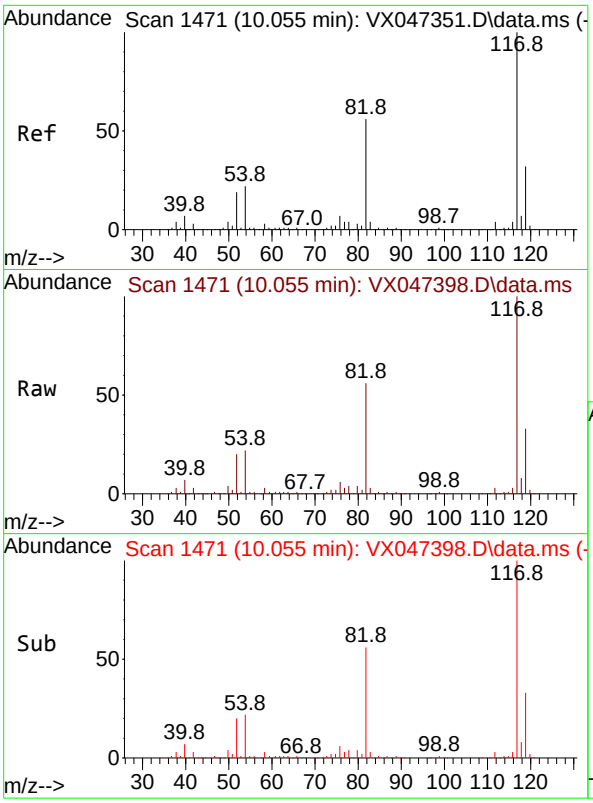


#62
4-Bromofluorobenzene
Concen: 50.769 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 95 Resp: 177952

Ion	Ratio	Lower	Upper
95	100		
174	74.2	0.0	148.0
176	71.0	0.0	145.4

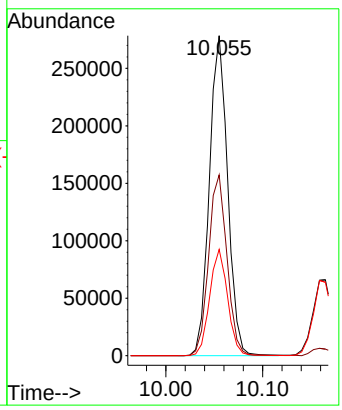




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:117 Resp: 364979

Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.0	67.4
119	33.2	25.8	38.8



Instrument :
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ClientSampleId :
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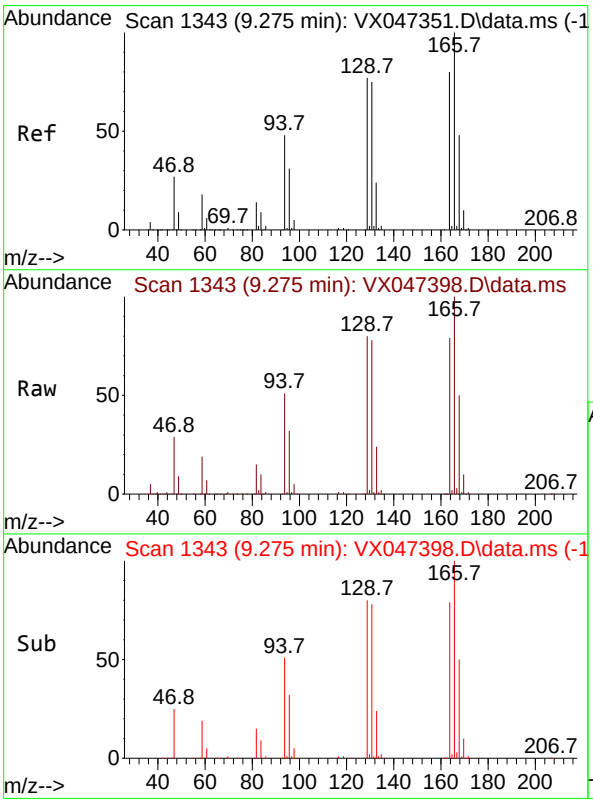
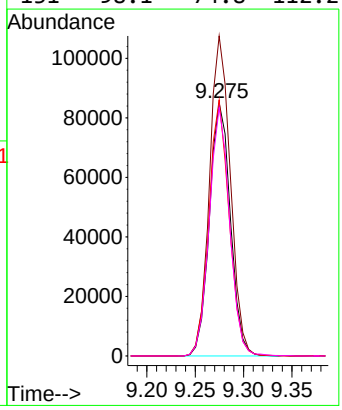
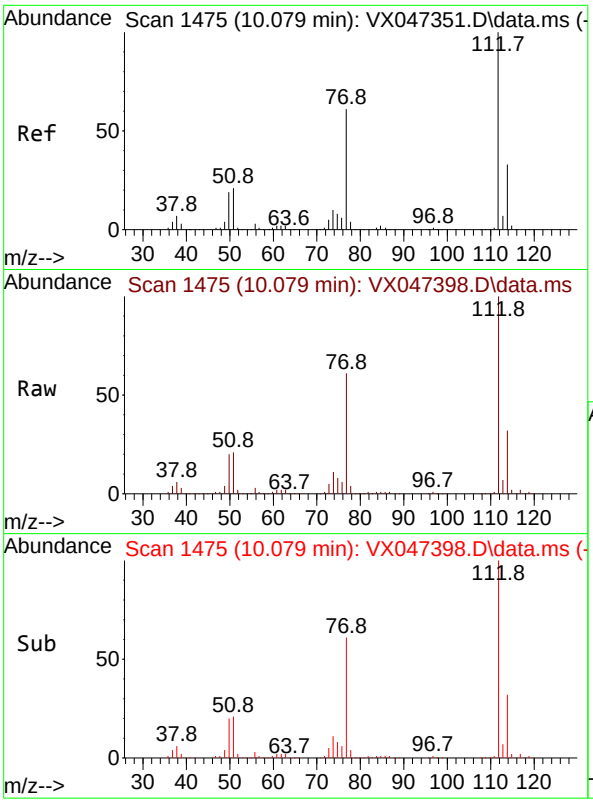


#64
Tetrachloroethene
Concen: 48.383 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:164 Resp: 127728

Ion	Ratio	Lower	Upper
164	100		
166	126.5	100.3	150.5
129	101.2	77.7	116.5
131	98.1	74.8	112.2

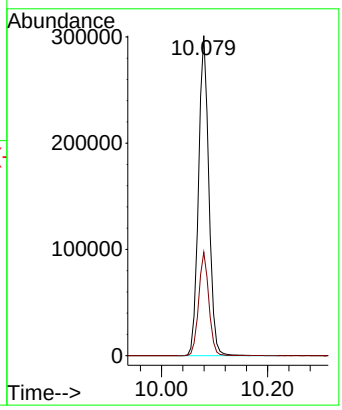




#65
Chlorobenzene
Concen: 47.020 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:112 Resp: 40782

Ion	Ratio	Lower	Upper
112	100		
114	32.3	26.4	39.6



Instrument :
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ClientSampleId :
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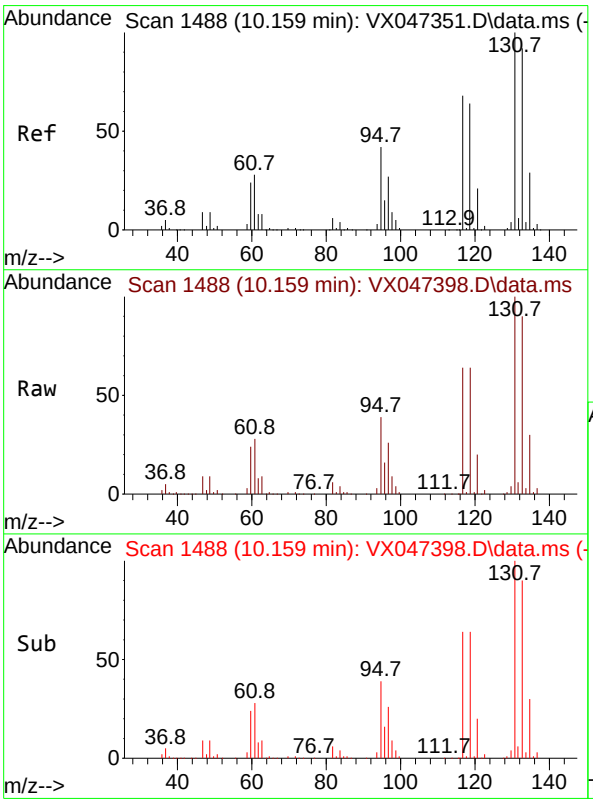
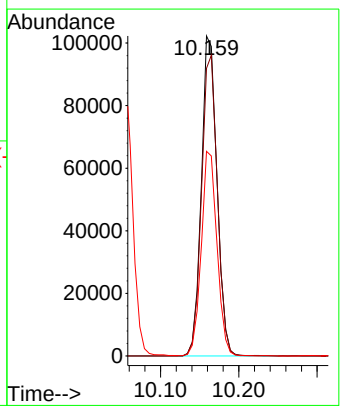
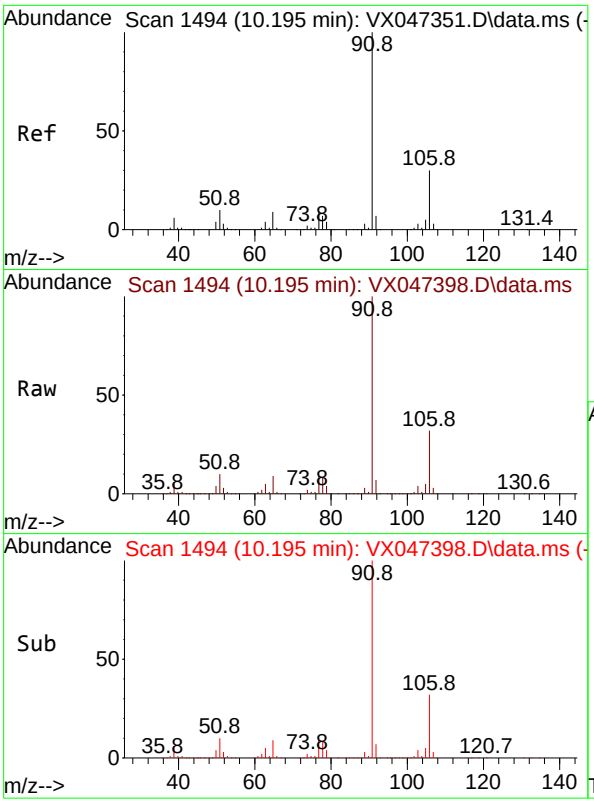


#66
1,1,1,2-Tetrachloroethane
Concen: 48.203 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:131 Resp: 141328

Ion	Ratio	Lower	Upper
131	100		
133	95.4	47.6	142.9
119	64.4	32.3	96.8

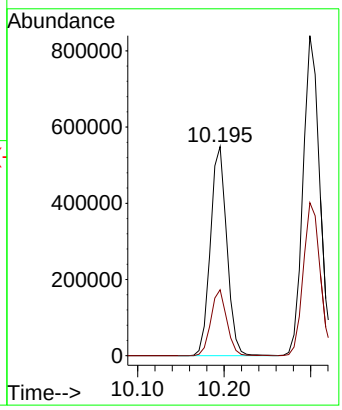




#67
Ethyl Benzene
Concen: 48.350 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 91 Resp: 72177

Ion	Ratio	Lower	Upper
91	100		
106	31.5	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
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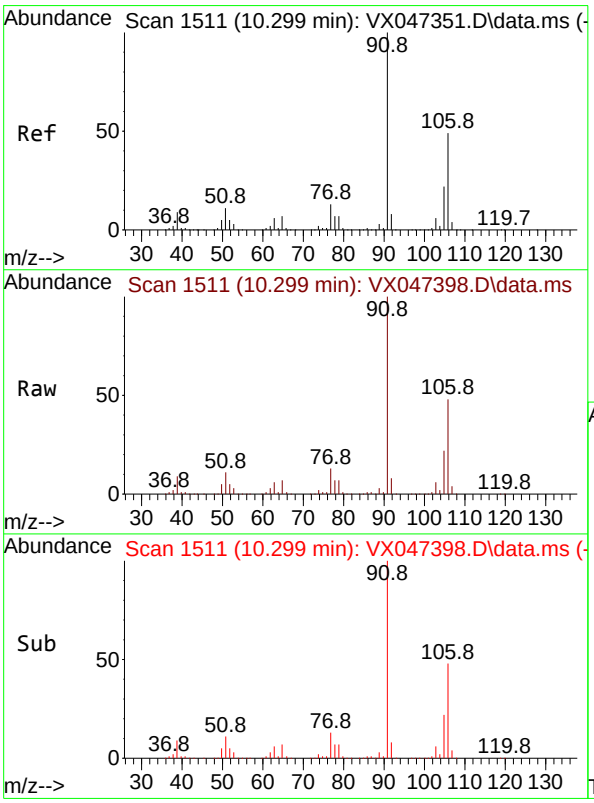
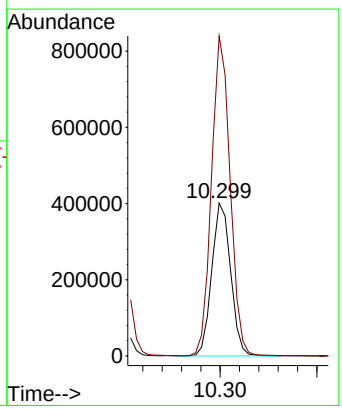
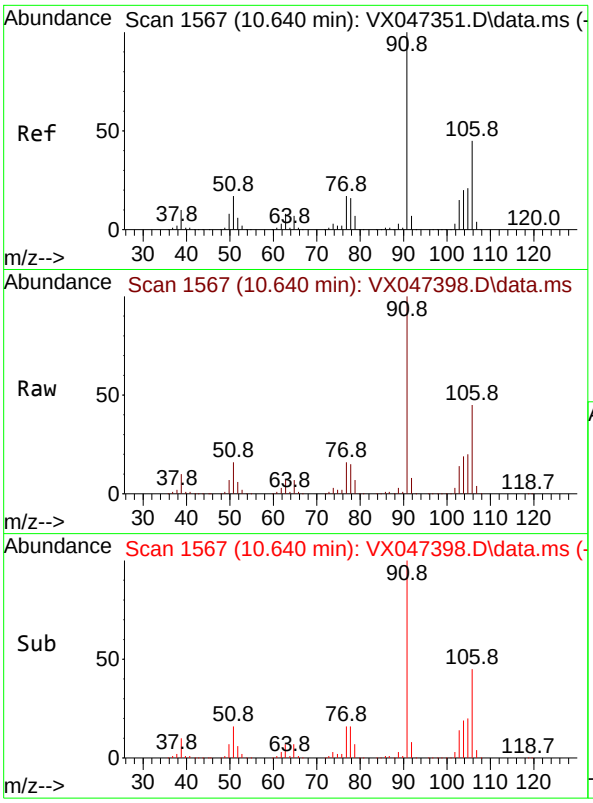


#68
m/p-Xylenes
Concen: 97.575 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:106 Resp: 543135

Ion	Ratio	Lower	Upper
106	100		
91	206.5	164.7	247.1

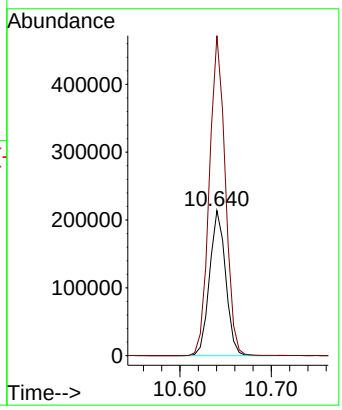




#69
o-Xylene
Concen: 48.711 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:106 Resp: 26093

Ion	Ratio	Lower	Upper
106	100		
91	218.8	110.6	331.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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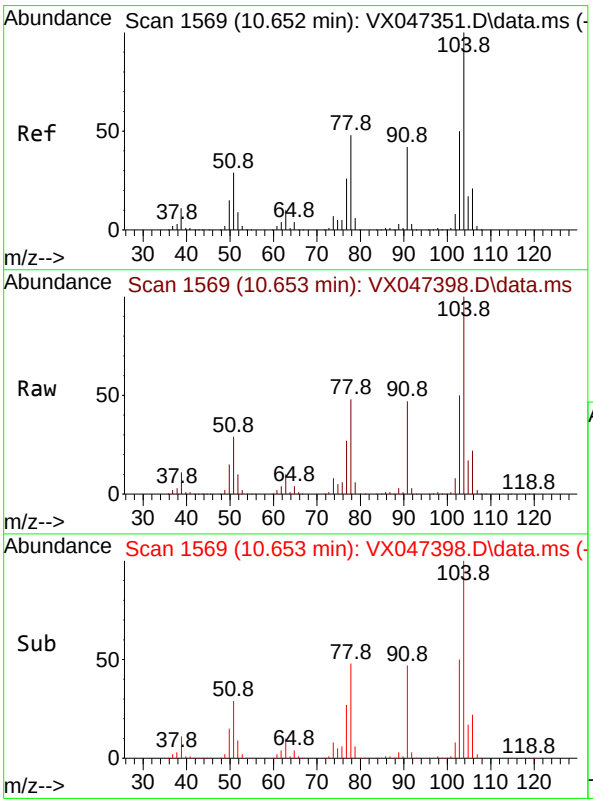
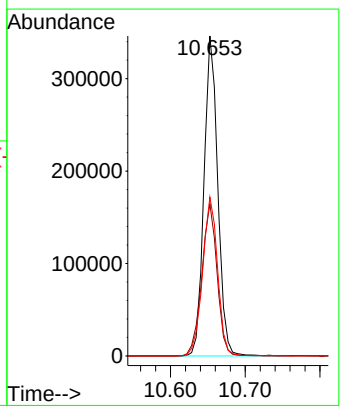
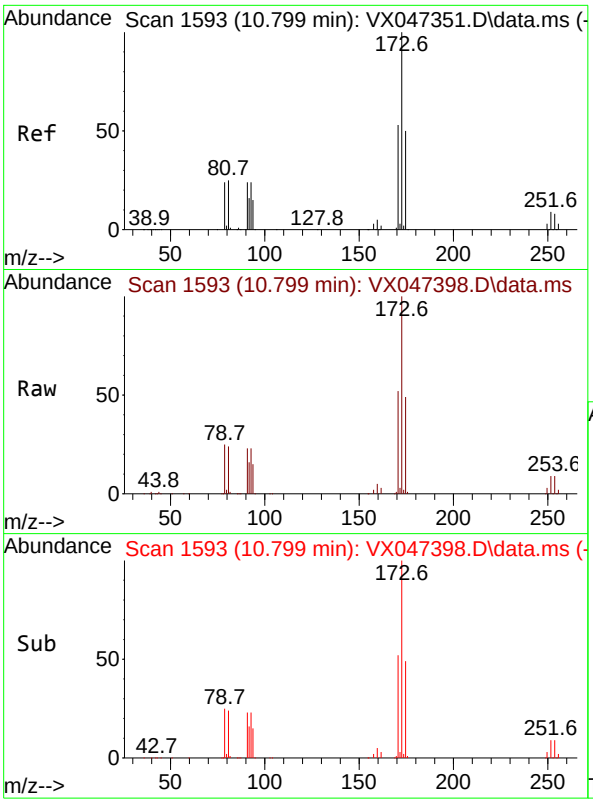


#70
Styrene
Concen: 48.950 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:104 Resp: 443043

Ion	Ratio	Lower	Upper
104	100		
78	52.8	41.8	62.8
103	54.2	43.6	65.4

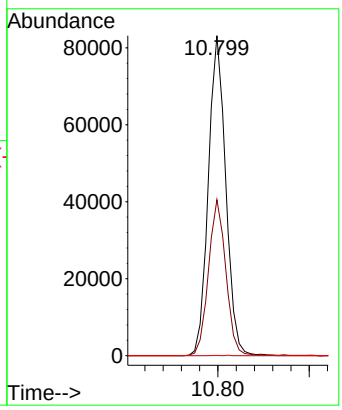




#71
Bromoform
Concen: 49.800 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:173 Resp: 10969

Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.4	73.4
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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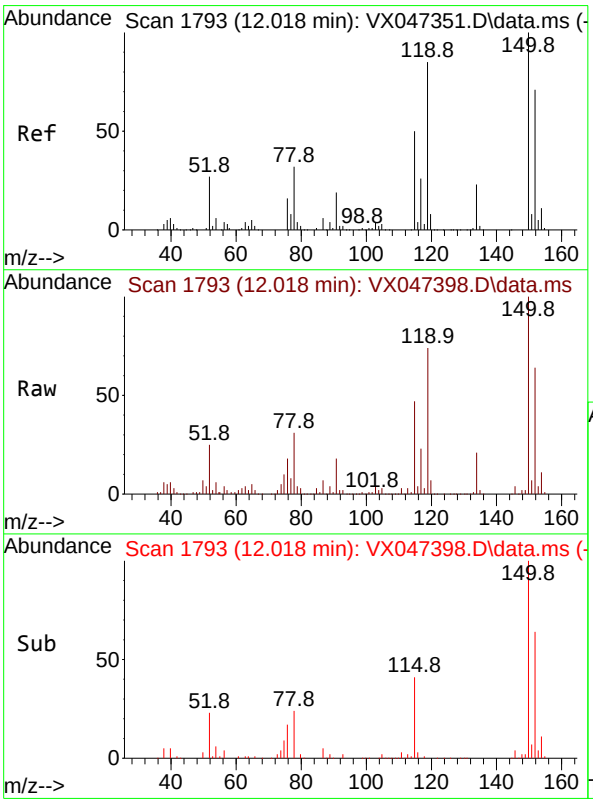
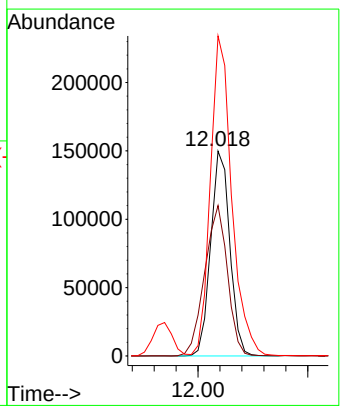
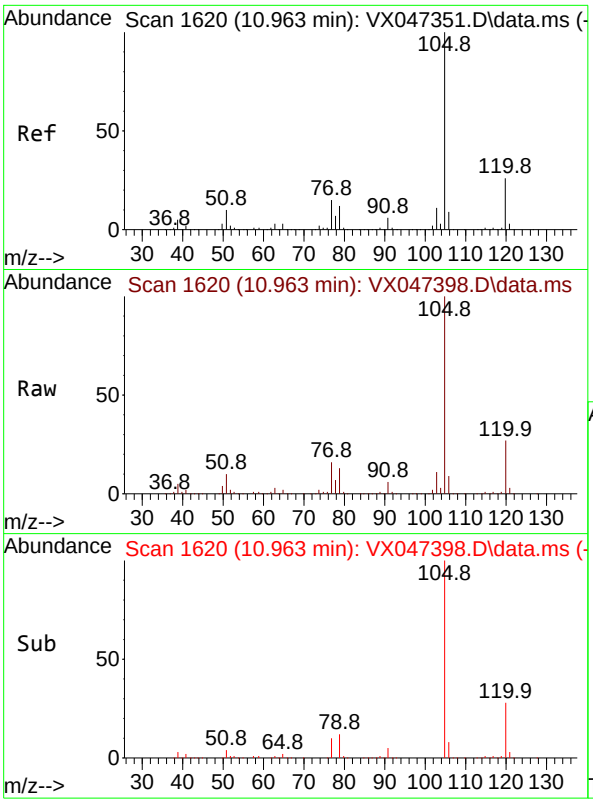


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:152 Resp: 181876

Ion	Ratio	Lower	Upper
152	100		
115	87.3	44.6	133.8
150	173.8	0.0	349.8

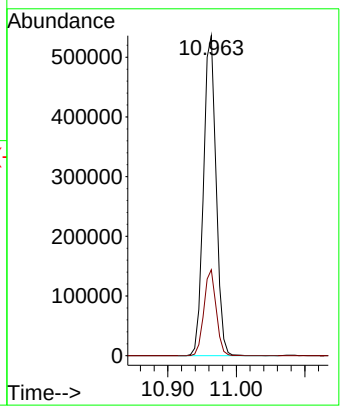




#73
Isopropylbenzene
Concen: 48.136 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:105 Resp: 685100

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.9	38.6



Instrument :
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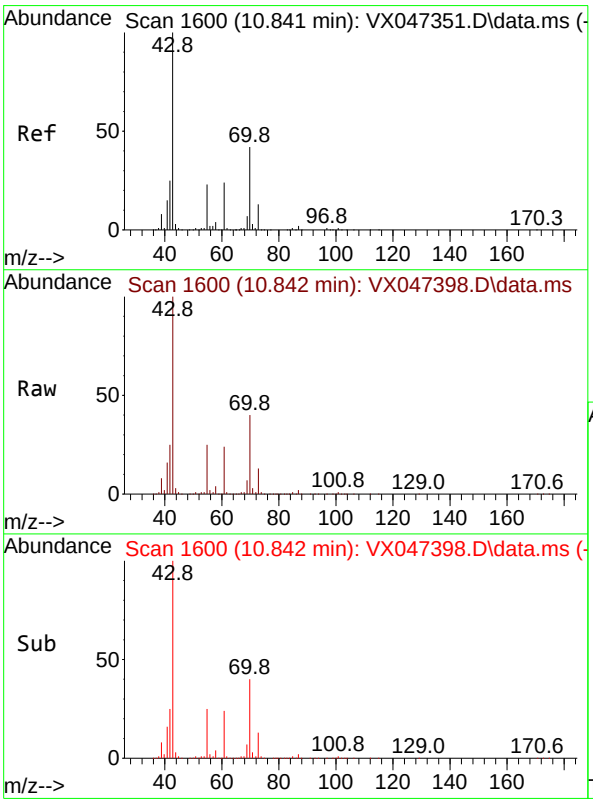
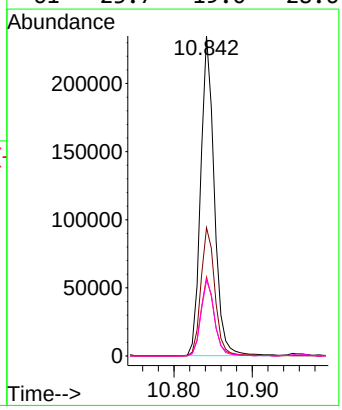
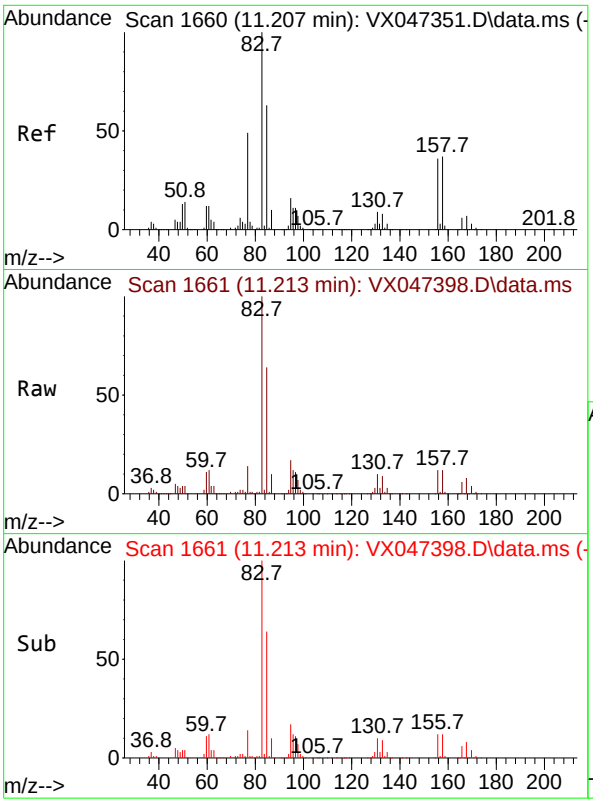


#74
N-amyl acetate
Concen: 52.388 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 43 Resp: 283144

Ion	Ratio	Lower	Upper
43	100		
70	41.3	33.1	49.7
55	24.6	19.0	28.6
61	23.7	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 48.688 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 83 Resp: 20345

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.0	15.0
85	65.1	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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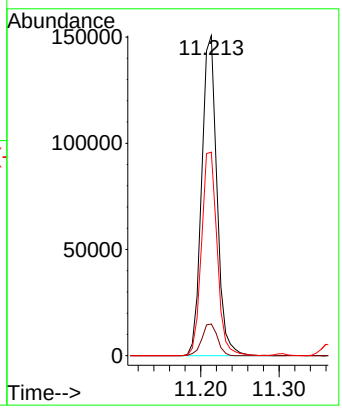
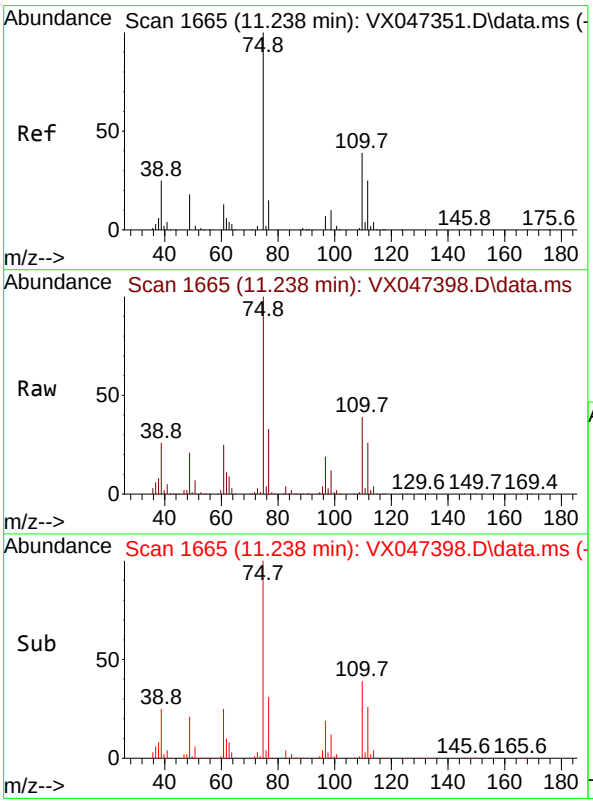
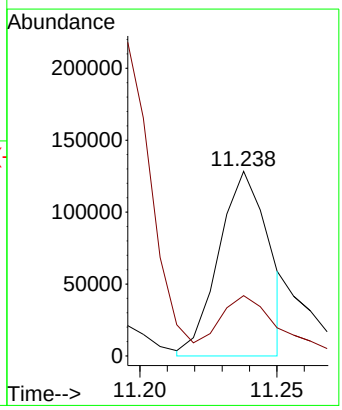


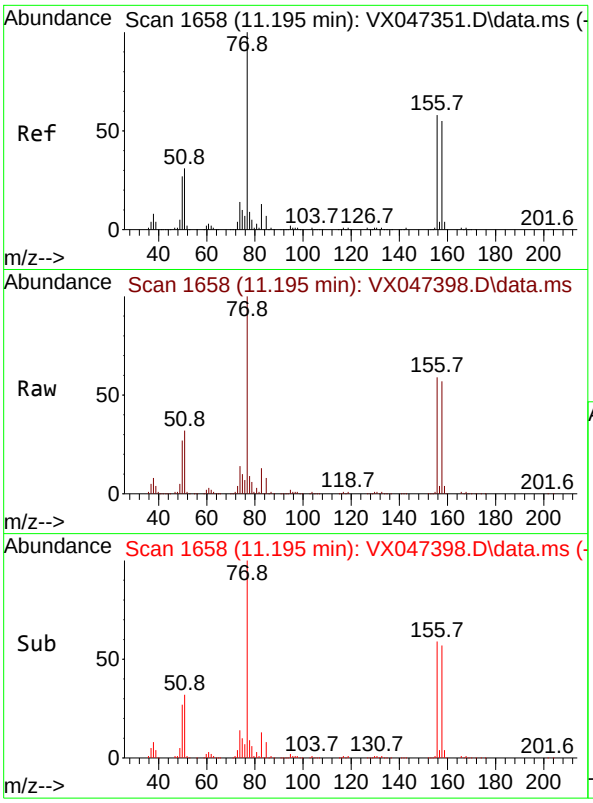


#76
1,2,3-Trichloropropane
Concen: 48.801 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 75 Resp: 162792

Ion	Ratio	Lower	Upper
75	100		
77	39.7	19.4	58.2

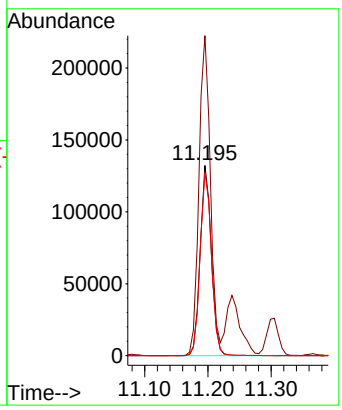




#77
Bromobenzene
Concen: 46.788 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:156 Resp: 16260

Ion	Ratio	Lower	Upper
156	100		
77	172.4	86.3	258.9
158	97.9	48.0	144.2



Instrument :
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ClientSampleId :
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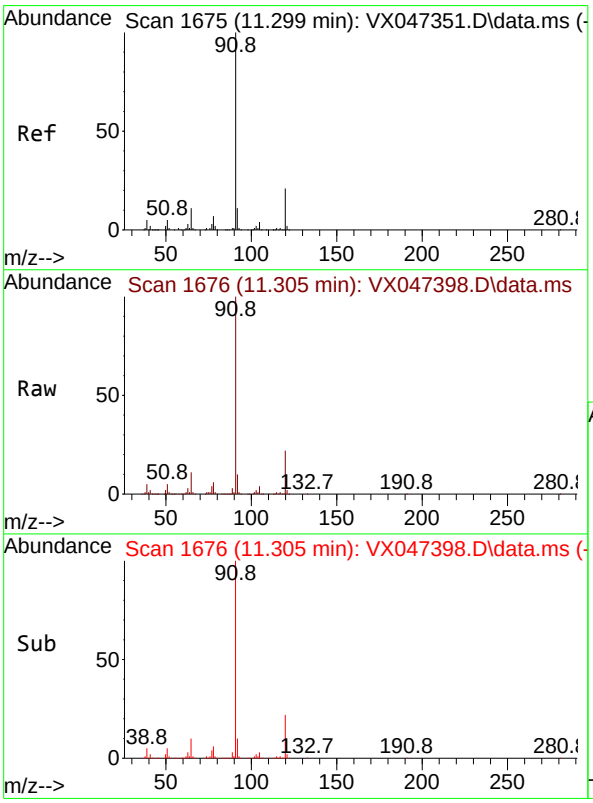
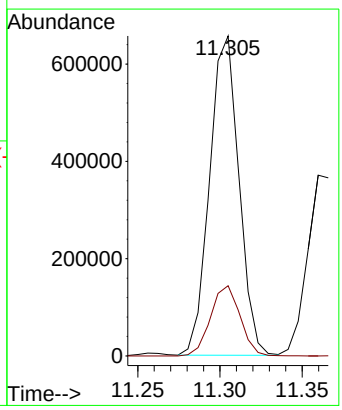
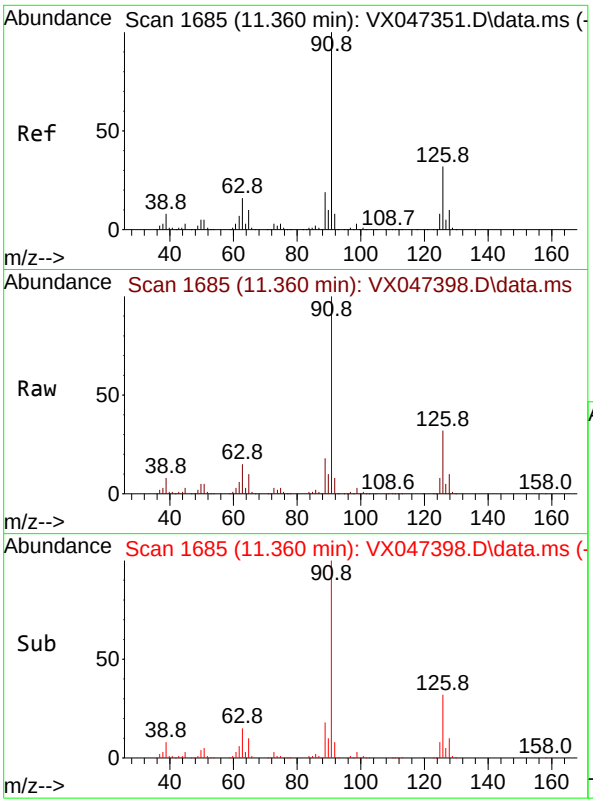


#78
n-propylbenzene
Concen: 47.963 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 91 Resp: 815287

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0

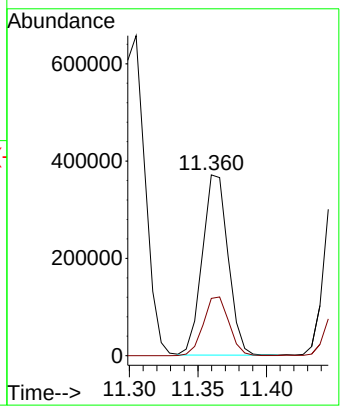




#79
2-Chlorotoluene
Concen: 47.097 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 91 Resp: 48394

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.7	50.1



Instrument :
MSVOA_X
ClientSampleId :
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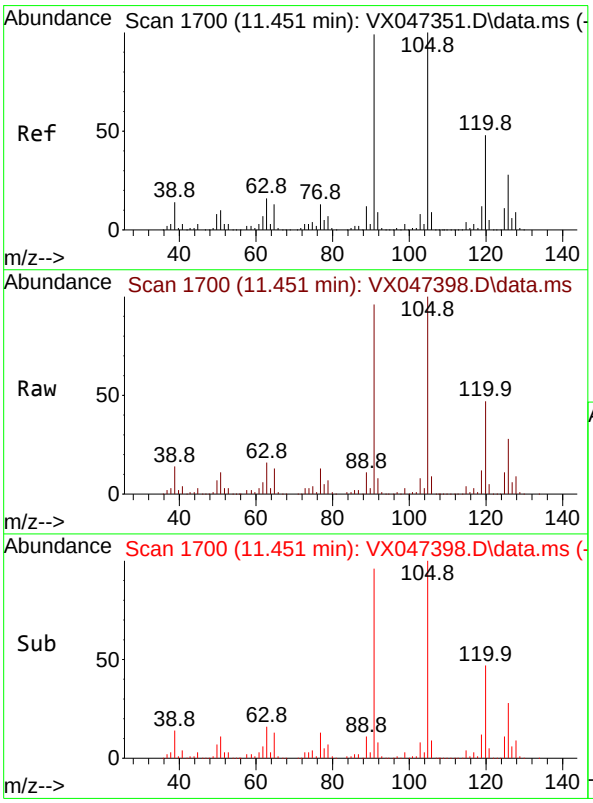
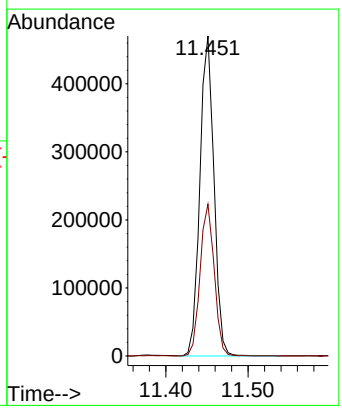
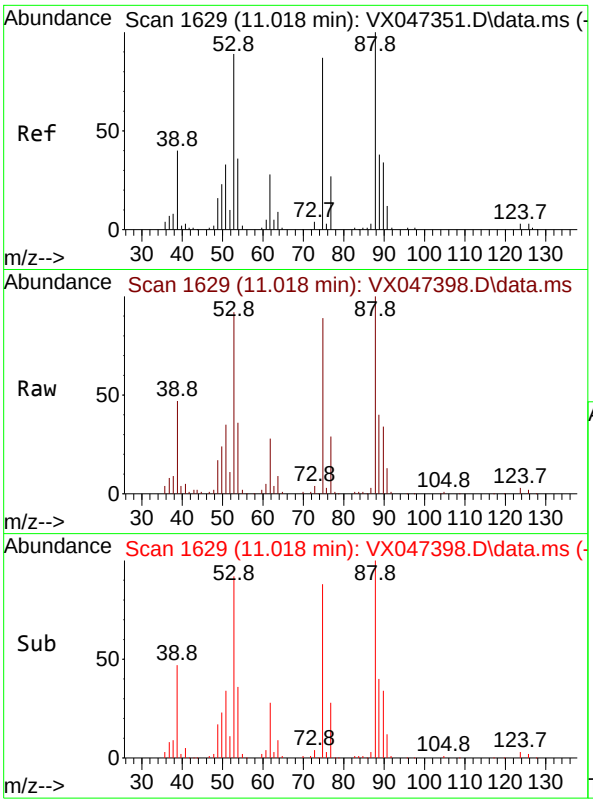


#80
1,3,5-Trimethylbenzene
Concen: 47.736 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:105 Resp: 559007

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.9	71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 43.382 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 75 Resp: 3234

Ion	Ratio	Lower	Upper
75	100		
53	105.5	85.2	127.8
89	44.8	36.7	55.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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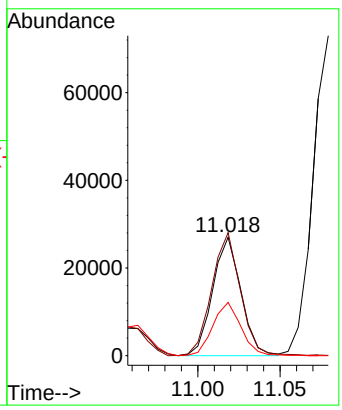
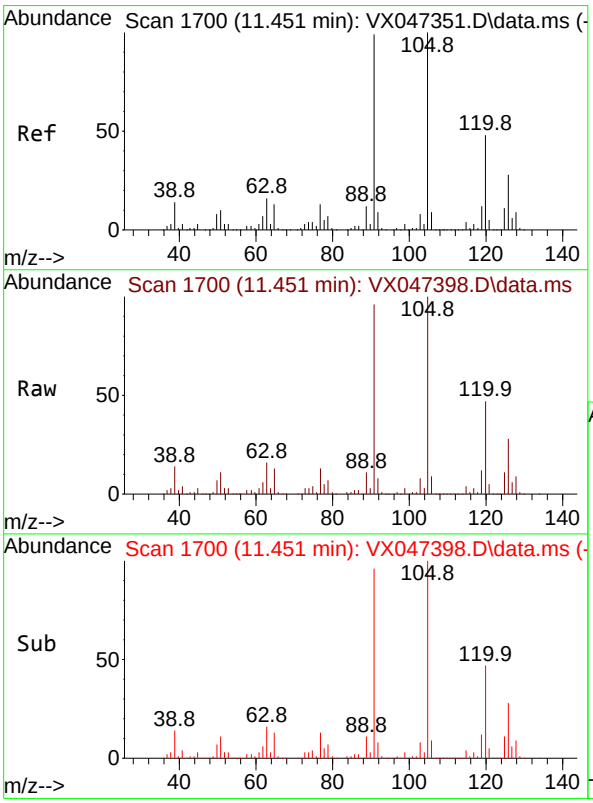
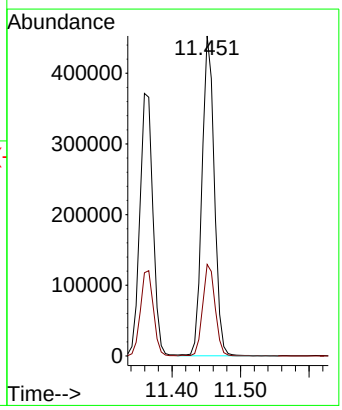


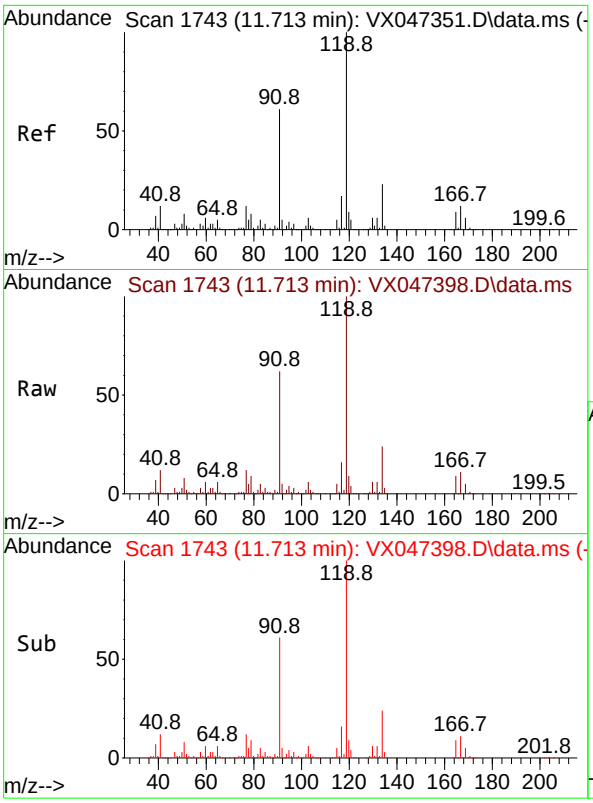


#82
4-Chlorotoluene
Concen: 46.629 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 91 Resp: 564800

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.4	43.0

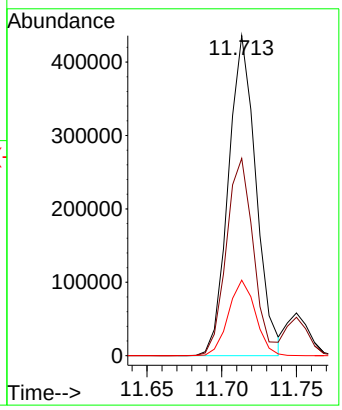




#83
tert-Butylbenzene
Concen: 47.888 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:119 Resp: 55948

Ion	Ratio	Lower	Upper
119	100		
91	61.0	29.1	87.4
134	23.1	11.3	33.9



Instrument :
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ClientSampleId :
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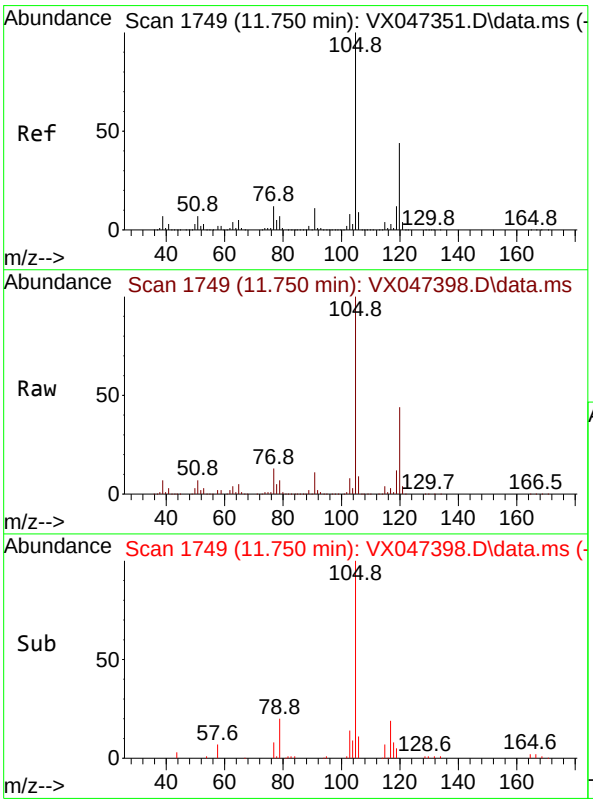
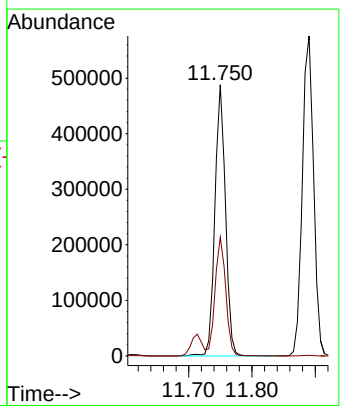
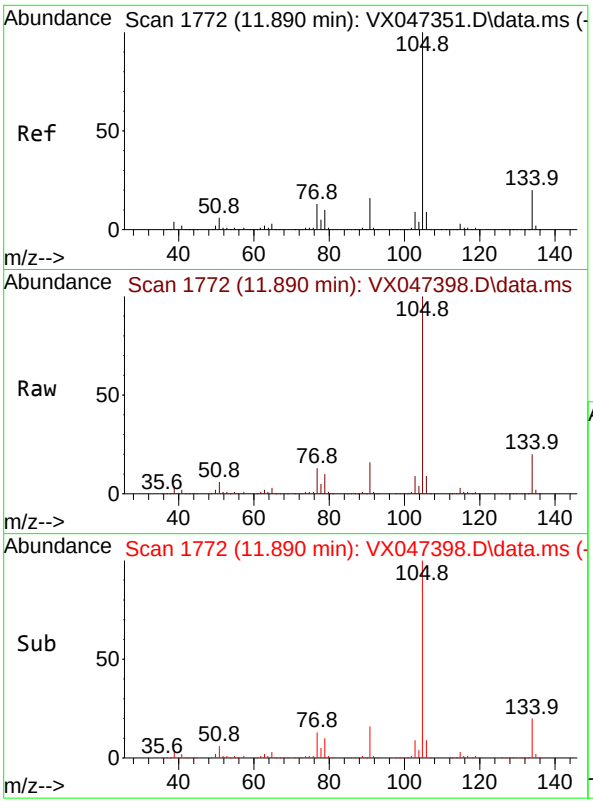


#84
1,2,4-Trimethylbenzene
Concen: 48.276 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:105 Resp: 565346

Ion	Ratio	Lower	Upper
105	100		
120	44.1	21.9	65.7

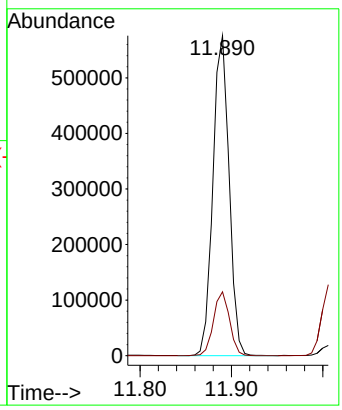




#85
sec-Butylbenzene
Concen: 48.776 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:105 Resp: 70631

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5



Instrument :
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ClientSampleId :
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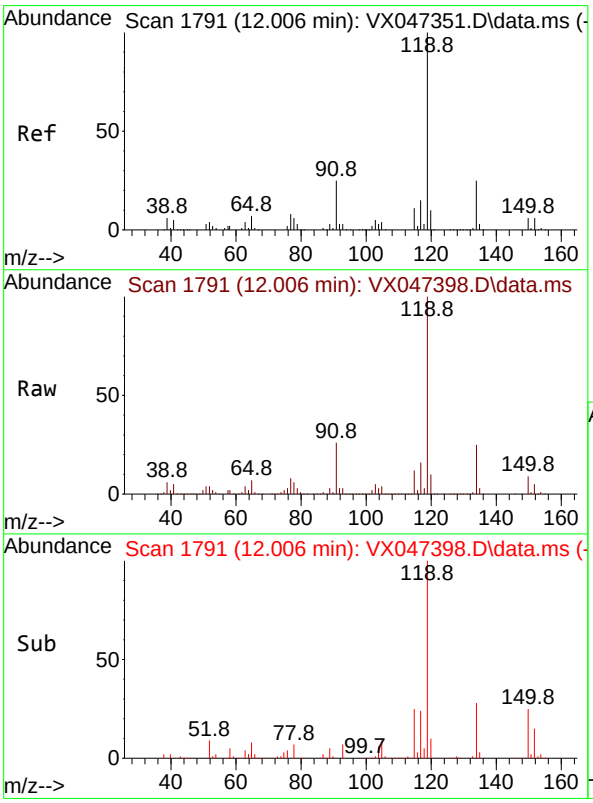
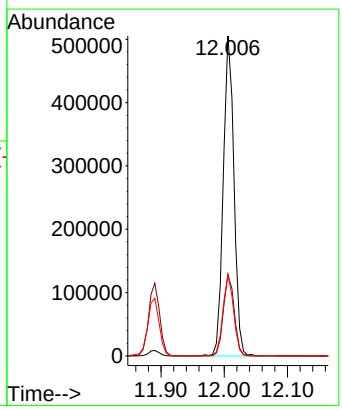
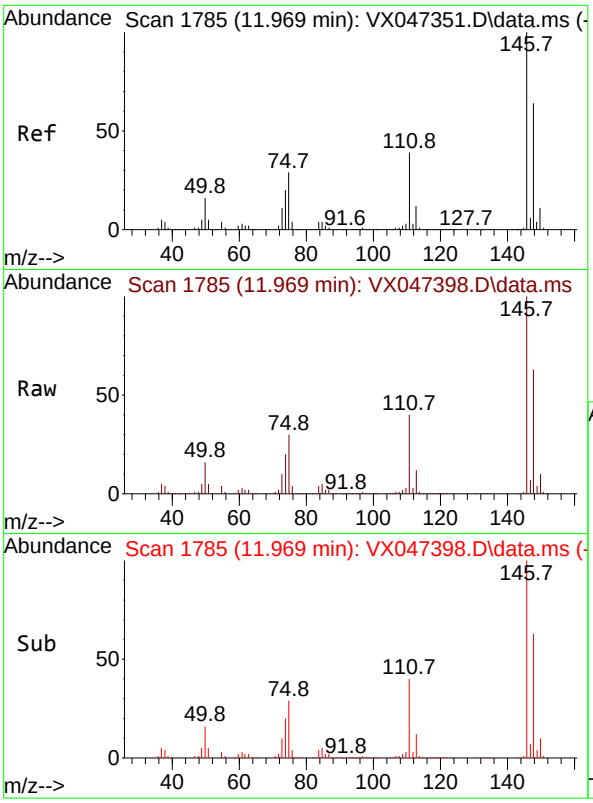


#86
p-Isopropyltoluene
Concen: 48.046 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:119 Resp: 588746

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.8	38.4
91	25.4	12.4	37.4

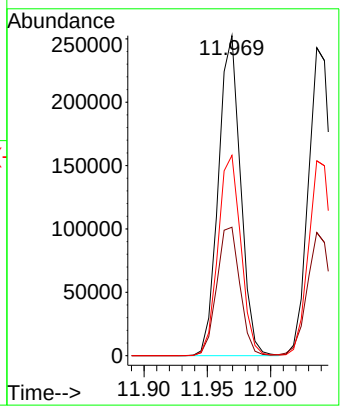




#87
1,3-Dichlorobenzene
Concen: 46.289 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:146 Resp: 30733

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.6	61.8
148	64.4	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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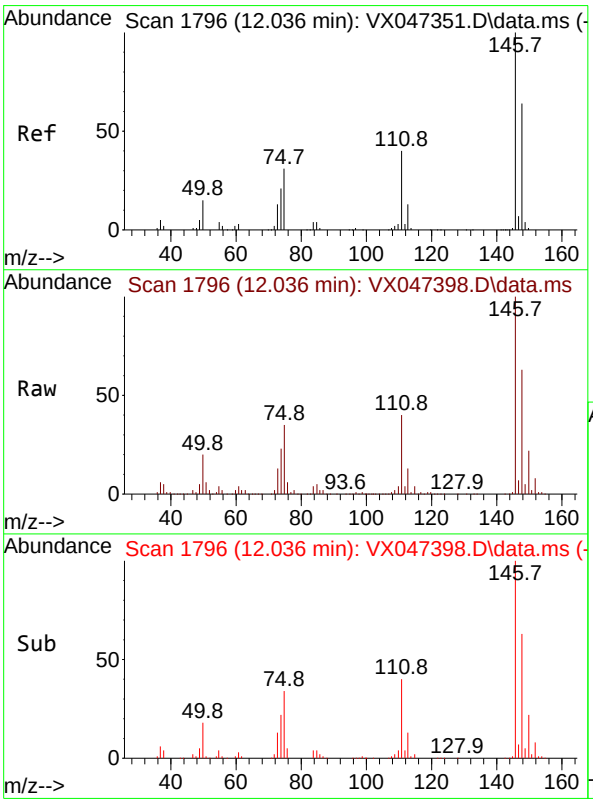
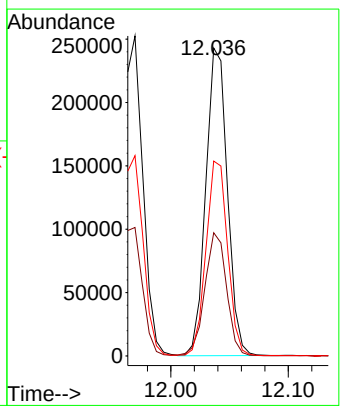
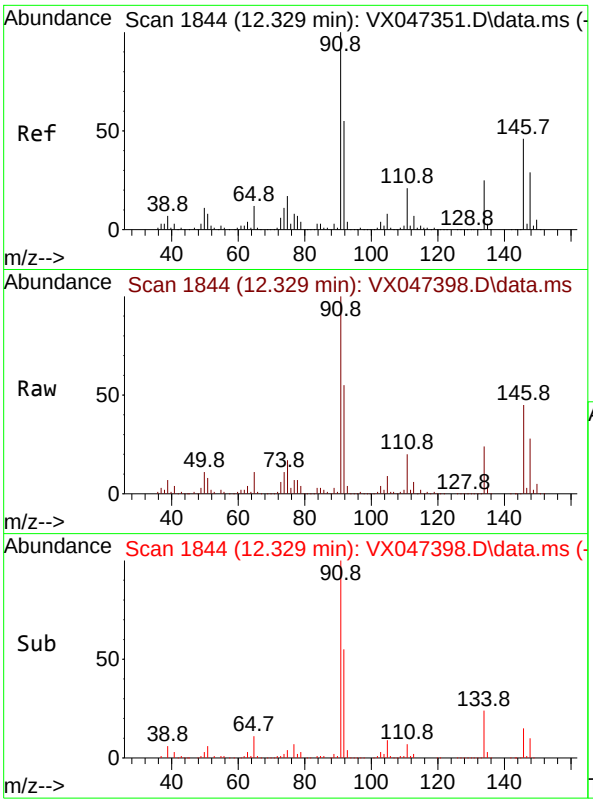


#88
1,4-Dichlorobenzene
Concen: 45.233 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:146 Resp: 308887

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.4	61.2
148	64.0	31.7	95.1

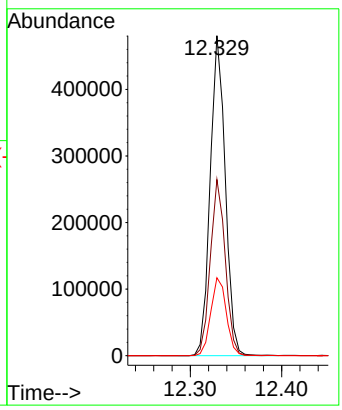




#89
n-Butylbenzene
Concen: 48.167 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 91 Resp: 54898

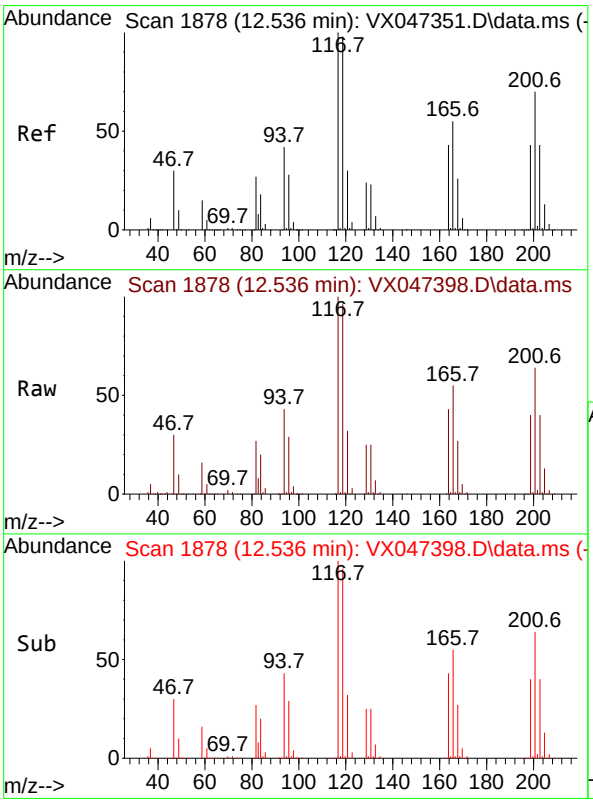
Ion	Ratio	Lower	Upper
91	100		
92	54.7	27.2	81.5
134	25.2	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

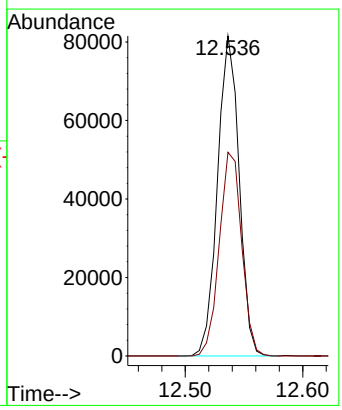
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

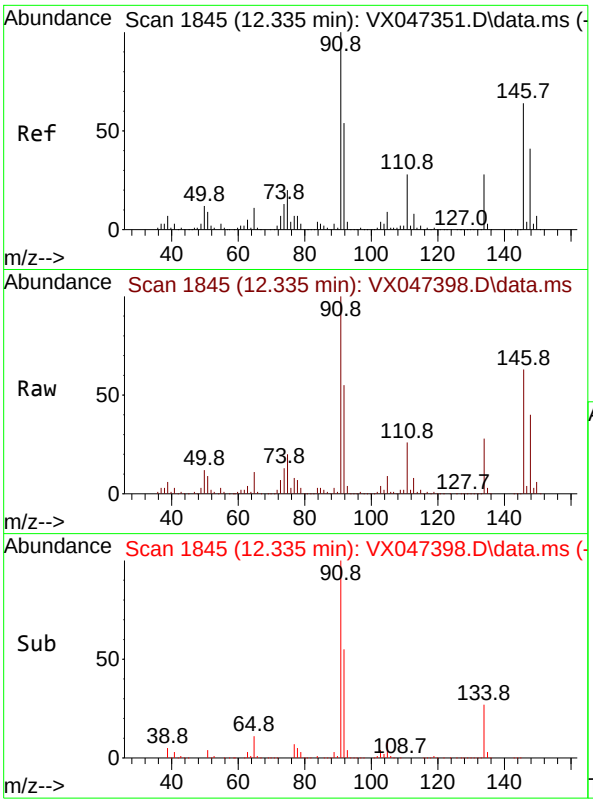


#90
Hexachloroethane
Concen: 48.527 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:117 Resp: 104319

Ion	Ratio	Lower	Upper
117	100		
201	66.1	35.1	105.3

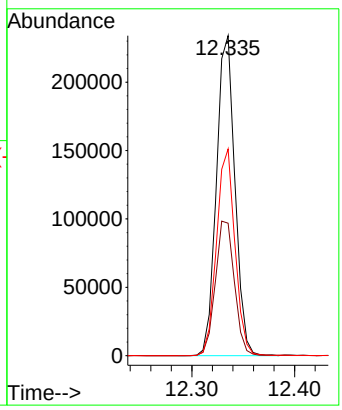




#91
1,2-Dichlorobenzene
Concen: 46.240 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:146 Resp: 29140

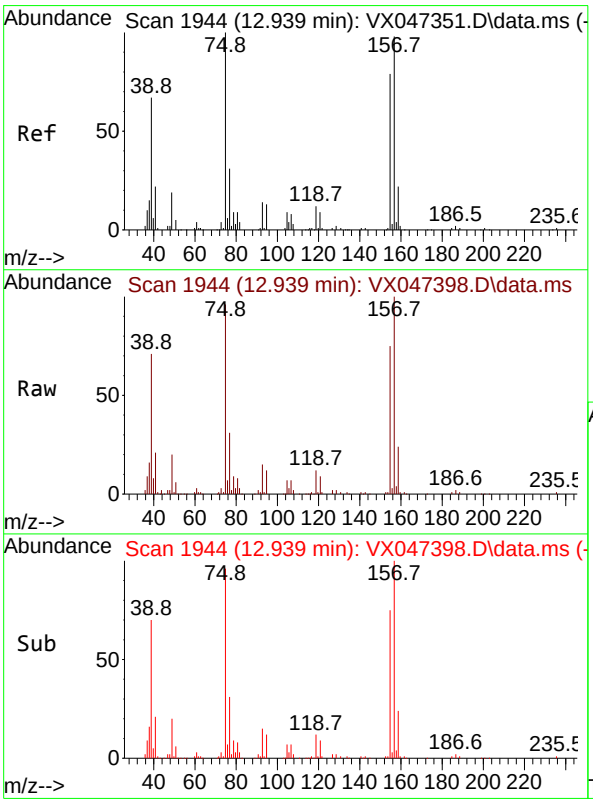
Ion	Ratio	Lower	Upper
146	100		
111	43.6	22.1	66.1
148	64.5	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

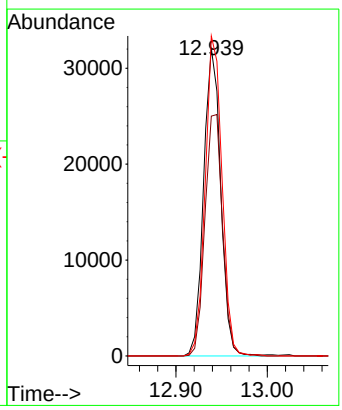
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

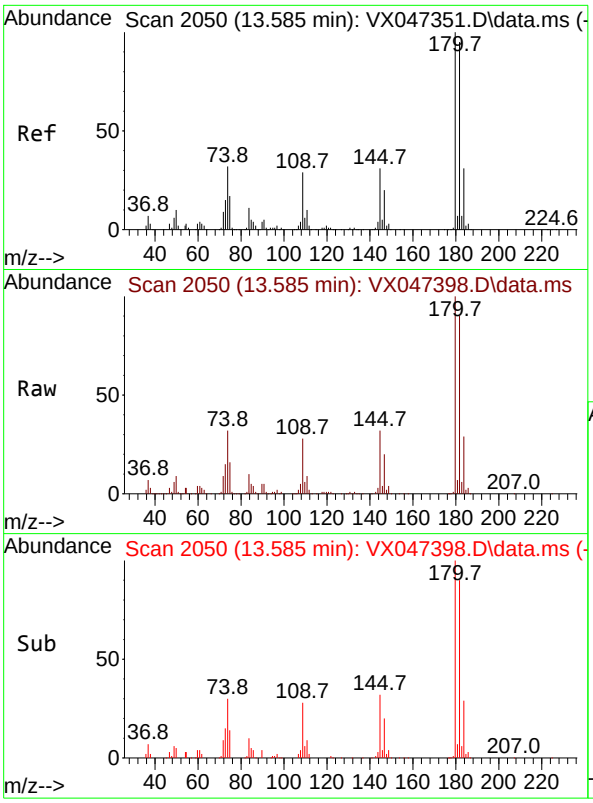


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.455 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 75 Resp: 41583

Ion	Ratio	Lower	Upper
75	100		
155	80.9	41.3	123.7
157	102.3	51.5	154.5

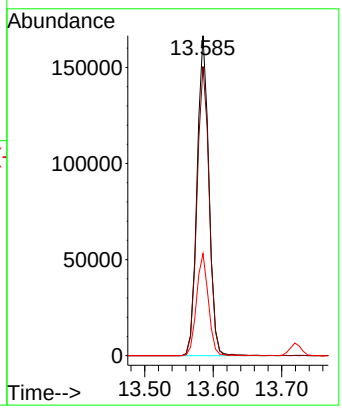




#93
1,2,4-Trichlorobenzene
Concen: 47.190 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:180 Resp: 19936

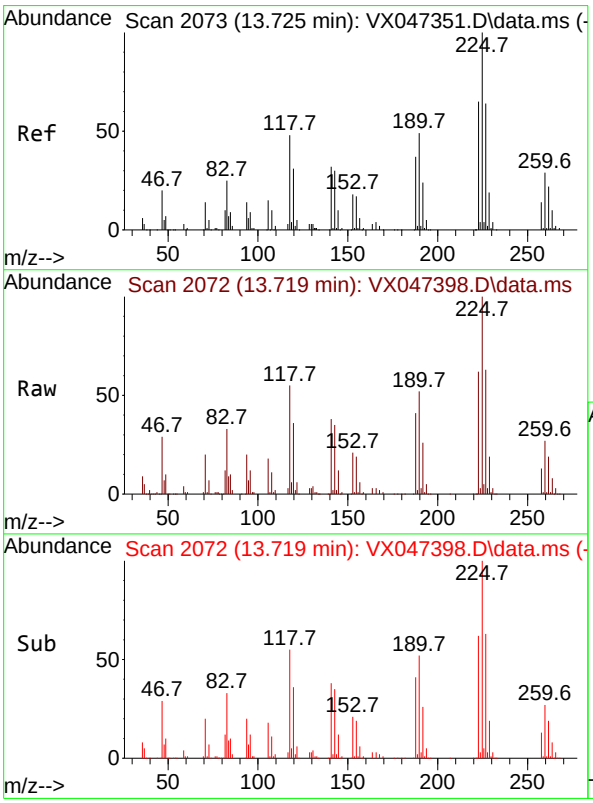
Ion	Ratio	Lower	Upper
180	100		
182	93.2	48.1	144.4
145	31.9	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

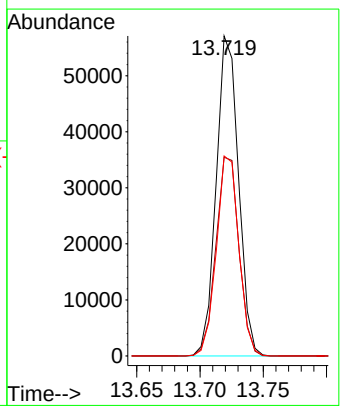
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

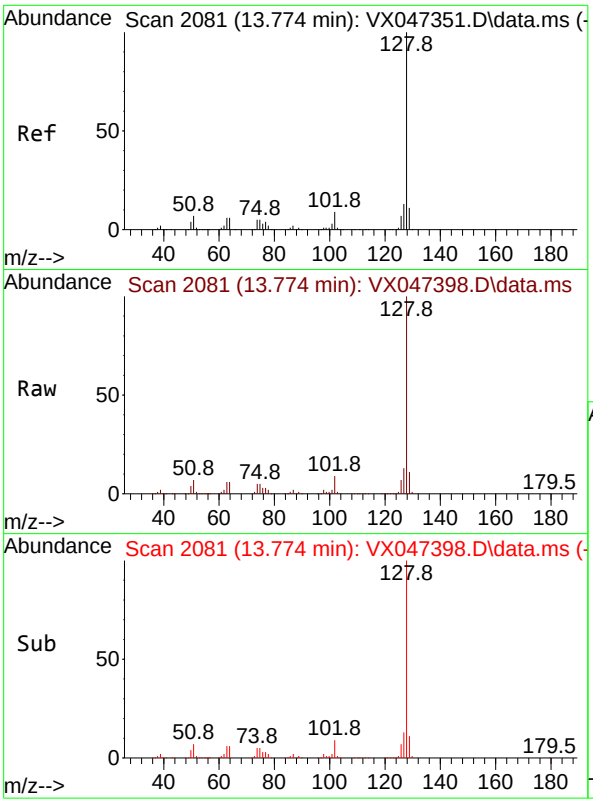


#94
Hexachlorobutadiene
Concen: 46.449 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:225 Resp: 69851

Ion	Ratio	Lower	Upper
225	100		
223	64.3	32.2	96.6
227	63.0	31.6	95.0

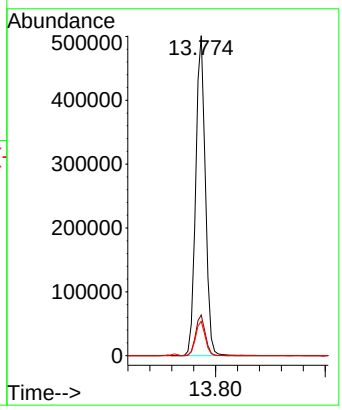




#95
Naphthalene
Concen: 50.928 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:128 Resp: 61488

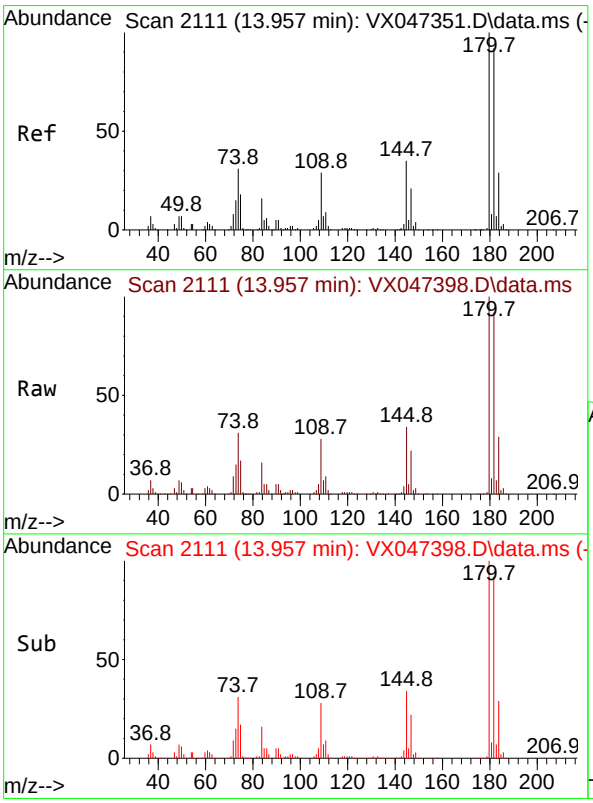
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.8	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

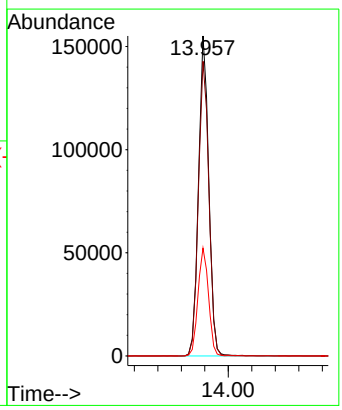
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025



#96
1,2,3-Trichlorobenzene
Concen: 47.311 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:180 Resp: 188409

Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.0	144.2
145	34.6	17.4	52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	100	0.00
2	T	Dichlorodifluoromethane	0.637	0.633	0.6	87	0.00
3	P	Chloromethane	0.573	0.563	1.7	90	0.00
4	C	Vinyl Chloride	0.720	0.674	6.4#	84	0.00
5	T	Bromomethane	0.291	0.176	39.5#	52	0.00
6	T	Chloroethane	0.440	0.422	4.1	91	0.00
7	T	Trichlorofluoromethane	1.065	1.016	4.6	86	0.00
8	T	Diethyl Ether	0.375	0.357	4.8	86	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.618	0.604	2.3	87	0.00
10	T	Methyl Iodide	1.058	0.582	45.0#	50	0.00
11	T	Tert butyl alcohol	0.061	0.069	-13.1	101	0.00
12	CM	1,1-Dichloroethene	0.630	0.592	6.0#	85	0.00
13	T	Acrolein	0.129	0.007	94.6#	6#	0.00
14	T	Allyl chloride	1.093	0.909	16.8	75	0.00
15	T	Acrylonitrile	0.294	0.304	-3.4	90	0.00
16	T	Acetone	0.263	0.251	4.6	90	0.00
17	T	Carbon Disulfide	1.900	1.780	6.3	89	0.00
18	T	Methyl Acetate	0.682	0.740	-8.5	96	0.00
19	T	Methyl tert-butyl Ether	1.915	1.897	0.9	87	0.00
20	T	Methylene Chloride	0.697	0.659	5.5	87	0.00
21	T	trans-1,2-Dichloroethene	0.668	0.625	6.4	86	0.00
22	T	Diisopropyl ether	2.161	2.139	1.0	87	0.00
23	T	Vinyl Acetate	1.772	1.744	1.6	86	0.00
24	P	1,1-Dichloroethane	1.222	1.172	4.1	86	0.00
25	T	2-Butanone	0.344	0.365	-6.1	94	0.00
26	T	2,2-Dichloropropane	0.922	0.734	20.4	72	0.00
27	T	cis-1,2-Dichloroethene	0.778	0.733	5.8	87	0.00
28	T	Bromochloromethane	0.508	0.496	2.4	92	0.00
29	T	Tetrahydrofuran	0.223	0.237	-6.3	97	0.00
30	C	Chloroform	1.247	1.196	4.1#	88	0.00
31	T	Cyclohexane	1.126	1.065	5.4	88	0.00
32	T	1,1,1-Trichloroethane	1.073	1.028	4.2	86	0.00
33	S	1,2-Dichloroethane-d4	0.700	0.708	-1.1	101	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
35	S	Dibromofluoromethane	0.325	0.329	-1.2	100	0.00
36	T	1,1-Dichloropropene	0.512	0.488	4.7	88	0.00
37	T	Ethyl Acetate	0.532	0.514	3.4	88	0.00
38	T	Carbon Tetrachloride	0.560	0.527	5.9	88	0.00
39	T	Methylcyclohexane	0.639	0.604	5.5	88	0.00
40	TM	Benzene	1.533	1.461	4.7	87	0.00
41	T	Methacrylonitrile	0.224	0.224	0.0	88	0.00
42	TM	1,2-Dichloroethane	0.543	0.517	4.8	87	0.00
43	T	Isopropyl Acetate	0.764	0.774	-1.3	90	0.00
44	TM	Trichloroethene	0.393	0.369	6.1	86	0.00
45	C	1,2-Dichloropropane	0.384	0.366	4.7#	88	0.00
46	T	Dibromomethane	0.279	0.264	5.4	88	0.00
47	T	Bromodichloromethane	0.578	0.549	5.0	87	0.00
48	T	Methyl methacrylate	0.397	0.399	-0.5	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	0.004	0.0	93	0.00
50	S	Toluene-d8	1.160	1.154	0.5	99	0.00
51	T	4-Methyl-2-Pentanone	0.440	0.468	-6.4	93	0.00
52	CM	Toluene	0.947	0.907	4.2#	87	0.00
53	T	t-1,3-Dichloropropene	0.505	0.491	2.8	85	0.00
54	T	cis-1,3-Dichloropropene	0.571	0.534	6.5	84	0.00
55	T	1,1,2-Trichloroethane	0.360	0.345	4.2	88	0.00
56	T	Ethyl methacrylate	0.530	0.542	-2.3	89	0.00
57	T	1,3-Dichloropropane	0.613	0.589	3.9	89	0.00
58	T	2-Chloroethyl Vinyl ether	0.211	0.260	-23.2	96	0.00
59	T	2-Hexanone	0.304	0.324	-6.6	94	0.00
60	T	Dibromochloromethane	0.428	0.409	4.4	89	0.00
61	T	1,2-Dibromoethane	0.371	0.359	3.2	89	0.00
62	S	4-Bromofluorobenzene	0.428	0.435	-1.6	102	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64	T	Tetrachloroethene	0.362	0.350	3.3	88	0.00
65	PM	Chlorobenzene	1.188	1.117	6.0	87	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.387	3.7	88	0.00
67	C	Ethyl Benzene	2.045	1.978	3.3#	87	0.00
68	T	m/p-Xylenes	0.763	0.744	2.5	87	0.00
69	T	o-Xylene	0.734	0.715	2.6	88	0.00
70	T	Styrene	1.240	1.214	2.1	86	0.00
71	P	Bromoform	0.302	0.301	0.3	90	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73	T	Isopropylbenzene	3.913	3.767	3.7	88	0.00
74	T	N-amyl acetate	1.486	1.557	-4.8	92	0.00
75	P	1,1,2,2-Tetrachloroethane	1.149	1.119	2.6	90	0.00
76	T	1,2,3-Trichloropropane	0.917	0.895	2.4	91	0.00
77	T	Bromobenzene	0.955	0.894	6.4	87	0.00
78	T	n-propylbenzene	4.673	4.483	4.1	89	0.00
79	T	2-Chlorotoluene	2.825	2.661	5.8	88	0.00
80	T	1,3,5-Trimethylbenzene	3.219	3.074	4.5	88	0.00
81	T	trans-1,4-Dichloro-2-butene	0.178	0.178	0.0	92	0.00
82	T	4-Chlorotoluene	3.330	3.105	6.8	88	0.00
83	T	tert-Butylbenzene	3.212	3.076	4.2	87	0.00
84	T	1,2,4-Trimethylbenzene	3.219	3.108	3.4	87	0.00
85	T	sec-Butylbenzene	3.981	3.883	2.5	90	0.00
86	T	p-Isopropyltoluene	3.369	3.237	3.9	89	0.00
87	T	1,3-Dichlorobenzene	1.825	1.690	7.4	87	0.00
88	T	1,4-Dichlorobenzene	1.877	1.698	9.5	88	0.00
89	T	n-Butylbenzene	3.133	3.018	3.7	90	0.00
90	T	Hexachloroethane	0.591	0.574	2.9	90	0.00
91	T	1,2-Dichlorobenzene	1.733	1.602	7.6	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.222	0.229	-3.2	95	0.00
93	T	1,2,4-Trichlorobenzene	1.161	1.096	5.6	91	0.00
94	T	Hexachlorobutadiene	0.413	0.384	7.0	97	0.00
95	T	Naphthalene	3.319	3.381	-1.9	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1.095	1.036	5.4	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	100	0.00
2	T	Dichlorodifluoromethane	50.000	49.690	0.6	87	0.00
3	P	Chloromethane	50.000	49.117	1.8	90	0.00
4	C	Vinyl Chloride	50.000	46.841	6.3#	84	0.00
5	T	Bromomethane	50.000	30.200	39.6#	52	0.00
6	T	Chloroethane	50.000	47.923	4.2	91	0.00
7	T	Trichlorofluoromethane	50.000	47.704	4.6	86	0.00
8	T	Diethyl Ether	50.000	47.576	4.8	86	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.921	2.2	87	0.00
10	T	Methyl Iodide	50.000	27.512	45.0#	50	0.00
11	T	Tert butyl alcohol	250.000	282.575	-13.0	101	0.00
12	CM	1,1-Dichloroethene	50.000	47.039	5.9#	85	0.00
13	T	Acrolein	250.000	14.590	94.2#	6	0.00
14	T	Allyl chloride	50.000	41.586	16.8	75	0.00
15	T	Acrylonitrile	250.000	258.742	-3.5	90	0.00
16	T	Acetone	250.000	238.203	4.7	90	0.00
17	T	Carbon Disulfide	50.000	46.840	6.3	89	0.00
18	T	Methyl Acetate	50.000	54.297	-8.6	96	0.00
19	T	Methyl tert-butyl Ether	50.000	49.516	1.0	87	0.00
20	T	Methylene Chloride	50.000	47.329	5.3	87	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.767	6.5	86	0.00
22	T	Diisopropyl ether	50.000	49.473	1.1	87	0.00
23	T	Vinyl Acetate	250.000	246.075	1.6	86	0.00
24	P	1,1-Dichloroethane	50.000	47.957	4.1	86	0.00
25	T	2-Butanone	250.000	265.075	-6.0	94	0.00
26	T	2,2-Dichloropropane	50.000	39.808	20.4	72	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.114	5.8	87	0.00
28	T	Bromochloromethane	50.000	48.810	2.4	92	0.00
29	T	Tetrahydrofuran	250.000	266.507	-6.6	97	0.00
30	C	Chloroform	50.000	47.982	4.0#	88	0.00
31	T	Cyclohexane	50.000	47.287	5.4	88	0.00
32	T	1,1,1-Trichloroethane	50.000	47.909	4.2	86	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.620	-1.2	101	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	101	0.00
35	S	Dibromofluoromethane	50.000	50.669	-1.3	100	0.00
36	T	1,1-Dichloropropene	50.000	47.627	4.7	88	0.00
37	T	Ethyl Acetate	50.000	48.337	3.3	88	0.00
38	T	Carbon Tetrachloride	50.000	47.116	5.8	88	0.00
39	T	Methylcyclohexane	50.000	47.227	5.5	88	0.00
40	TM	Benzene	50.000	47.641	4.7	87	0.00
41	T	Methacrylonitrile	50.000	50.045	-0.1	88	0.00
42	TM	1,2-Dichloroethane	50.000	47.640	4.7	87	0.00
43	T	Isopropyl Acetate	50.000	50.686	-1.4	90	0.00
44	TM	Trichloroethene	50.000	47.029	5.9	86	0.00
45	C	1,2-Dichloropropane	50.000	47.663	4.7#	88	0.00
46	T	Dibromomethane	50.000	47.328	5.3	88	0.00
47	T	Bromodichloromethane	50.000	47.489	5.0	87	0.00
48	T	Methyl methacrylate	50.000	50.264	-0.5	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1070.636	-7.1	93	0.00
50	S	Toluene-d8	50.000	49.733	0.5	99	0.00
51	T	4-Methyl-2-Pentanone	250.000	265.854	-6.3	93	0.00
52	CM	Toluene	50.000	47.866	4.3#	87	0.00
53	T	t-1,3-Dichloropropene	50.000	48.624	2.8	85	0.00
54	T	cis-1,3-Dichloropropene	50.000	46.750	6.5	84	0.00
55	T	1,1,2-Trichloroethane	50.000	47.906	4.2	88	0.00
56	T	Ethyl methacrylate	50.000	51.063	-2.1	89	0.00
57	T	1,3-Dichloropropane	50.000	48.073	3.9	89	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	256.065	-2.4	96	0.00
59	T	2-Hexanone	250.000	266.477	-6.6	94	0.00
60	T	Dibromochloromethane	50.000	47.846	4.3	89	0.00
61	T	1,2-Dibromoethane	50.000	48.409	3.2	89	0.00
62	S	4-Bromofluorobenzene	50.000	50.769	-1.5	102	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64	T	Tetrachloroethene	50.000	48.383	3.2	88	0.00
65	PM	Chlorobenzene	50.000	47.020	6.0	87	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.203	3.6	88	0.00
67	C	Ethyl Benzene	50.000	48.350	3.3#	87	0.00
68	T	m/p-Xylenes	100.000	97.575	2.4	87	0.00
69	T	o-Xylene	50.000	48.711	2.6	88	0.00
70	T	Styrene	50.000	48.950	2.1	86	0.00
71	P	Bromoform	50.000	49.800	0.4	90	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73	T	Isopropylbenzene	50.000	48.136	3.7	88	0.00
74	T	N-amyl acetate	50.000	52.388	-4.8	92	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.688	2.6	90	0.00
76	T	1,2,3-Trichloropropane	50.000	48.801	2.4	91	0.00
77	T	Bromobenzene	50.000	46.788	6.4	87	0.00
78	T	n-propylbenzene	50.000	47.963	4.1	89	0.00
79	T	2-Chlorotoluene	50.000	47.097	5.8	88	0.00
80	T	1,3,5-Trimethylbenzene	50.000	47.736	4.5	88	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	43.382	13.2	92	0.00
82	T	4-Chlorotoluene	50.000	46.629	6.7	88	0.00
83	T	tert-Butylbenzene	50.000	47.888	4.2	87	0.00
84	T	1,2,4-Trimethylbenzene	50.000	48.276	3.4	87	0.00
85	T	sec-Butylbenzene	50.000	48.776	2.4	90	0.00
86	T	p-Isopropyltoluene	50.000	48.046	3.9	89	0.00
87	T	1,3-Dichlorobenzene	50.000	46.289	7.4	87	0.00
88	T	1,4-Dichlorobenzene	50.000	45.233	9.5	88	0.00
89	T	n-Butylbenzene	50.000	48.167	3.7	90	0.00
90	T	Hexachloroethane	50.000	48.527	2.9	90	0.00
91	T	1,2-Dichlorobenzene	50.000	46.240	7.5	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.455	-2.9	95	0.00
93	T	1,2,4-Trichlorobenzene	50.000	47.190	5.6	91	0.00
94	T	Hexachlorobutadiene	50.000	46.449	7.1	97	0.00
95	T	Naphthalene	50.000	50.928	-1.9	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	47.311	5.4	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: FIRS02

Lab Code: ACE | SDG No.: Q2815

Instrument ID: MSVOA_X | Calibration Date/Time: 08/19/2025 09:37

Lab File ID: VX047400.D | Init. Calib. Date(s): 08/15/2025 08/15/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:40 12:30

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.637	0.584		-8.32	20
Chloromethane	0.573	0.568	0.1	-0.87	20
Vinyl Chloride	0.720	0.658		-8.61	20
Bromomethane	0.291	0.267		-8.25	20
Chloroethane	0.440	0.408		-7.27	20
Trichlorofluoromethane	1.065	0.957		-10.14	20
1,1,2-Trichlorotrifluoroethane	0.618	0.582		-5.82	20
1,1-Dichloroethene	0.630	0.596		-5.4	20
Acetone	0.263	0.281		6.84	20
Carbon Disulfide	1.900	1.705		-10.26	20
Methyl tert-butyl Ether	1.915	2.133		11.38	20
Methyl Acetate	0.682	0.775		13.64	20
Methylene Chloride	0.697	0.733		5.16	20
trans-1,2-Dichloroethene	0.668	0.656		-1.8	20
1,1-Dichloroethane	1.222	1.251	0.1	2.37	20
Cyclohexane	1.126	0.994		-11.72	20
2-Butanone	0.344	0.391		13.66	20
Carbon Tetrachloride	0.560	0.503		-10.18	20
cis-1,2-Dichloroethene	0.778	0.806		3.6	20
Bromochloromethane	0.508	0.619		21.85	20
Chloroform	1.247	1.304		4.57	20
1,1,1-Trichloroethane	1.073	1.041		-2.98	20
Methylcyclohexane	0.639	0.540		-15.49	20
Benzene	1.533	1.493		-2.61	20
1,2-Dichloroethane	0.543	0.561		3.32	20
Trichloroethene	0.393	0.360		-8.4	20
1,2-Dichloropropane	0.384	0.390		1.56	20
Bromodichloromethane	0.578	0.589		1.9	20
4-Methyl-2-Pentanone	0.440	0.479		8.86	20
Toluene	0.947	0.914		-3.48	20
t-1,3-Dichloropropene	0.505	0.553		9.51	20
cis-1,3-Dichloropropene	0.571	0.604		5.78	20
1,1,2-Trichloroethane	0.360	0.376		4.44	20
2-Hexanone	0.304	0.329		8.22	20
Dibromochloromethane	0.428	0.444		3.74	20
1,2-Dibromoethane	0.371	0.387		4.31	20
Tetrachloroethene	0.362	0.319		-11.88	20
Chlorobenzene	1.188	1.128	0.3	-5.05	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: FIRS02

Lab Code: ACE | SDG No.: Q2815

Instrument ID: MSVOA_X | Calibration Date/Time: 08/19/2025 09:37

Lab File ID: VX047400.D | Init. Calib. Date(s): 08/15/2025 08/15/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:40 12:30

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.045	1.923		-5.97	20
m/p-Xylenes	0.763	0.726		-4.85	20
o-Xylene	0.734	0.698		-4.91	20
Styrene	1.240	1.250		0.81	20
Bromoform	0.302	0.316	0.1	4.64	20
Isopropylbenzene	3.913	3.540		-9.53	20
1,1,2,2-Tetrachloroethane	1.149	1.161	0.3	1.04	20
1,3-Dichlorobenzene	1.825	1.702		-6.74	20
1,4-Dichlorobenzene	1.877	1.737		-7.46	20
1,2-Dichlorobenzene	1.733	1.661		-4.16	20
1,2-Dibromo-3-Chloropropane	0.222	0.222		0	20
1,2,4-Trichlorobenzene	1.161	1.116		-3.88	20
1,2,3-Trichlorobenzene	1.095	1.078		-1.55	20
1,2-Dichloroethane-d4	0.700	0.805		15	20
Dibromofluoromethane	0.325	0.344		5.85	20
Toluene-d8	1.160	1.173		1.12	20
4-Bromofluorobenzene	0.428	0.455		6.31	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\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	203851	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	365078	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	334051	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	167955	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	164085	57.514	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 115.020%			
35) Dibromofluoromethane	5.391	113	125647	53.029	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.060%			
50) Toluene-d8	8.647	98	428388	50.584	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.160%			
62) 4-Bromofluorobenzene	11.079	95	166205	53.183	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	118983	45.787	ug/l	100
3) Chloromethane	1.313	50	115723	49.503	ug/l	98
4) Vinyl Chloride	1.392	62	134206	45.739	ug/l	93
5) Bromomethane	1.624	94	54388	45.891	ug/l	97
6) Chloroethane	1.703	64	83086	46.281	ug/l	98
7) Trichlorofluoromethane	1.904	101	195173	44.970	ug/l	98
8) Diethyl Ether	2.148	74	84247	55.128	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.343	101	118600	47.108	ug/l	99
10) Methyl Iodide	2.471	142	182007	42.186	ug/l	99
11) Tert butyl alcohol	2.959	59	73438	295.893	ug/l	99
12) 1,1-Dichloroethene	2.337	96	121485	47.332	ug/l	97
13) Acrolein	2.246	56	147637	281.792	ug/l	100
14) Allyl chloride	2.678	41	225494	50.583	ug/l	99
15) Acrylonitrile	3.081	53	342772	285.809	ug/l	100
16) Acetone	2.392	43	286462	267.129	ug/l	99
17) Carbon Disulfide	2.526	76	347652	44.886	ug/l	100
18) Methyl Acetate	2.715	43	158065	56.879	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	434808	55.686	ug/l	98
20) Methylene Chloride	2.800	84	149480	52.640	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	133669	49.068	ug/l	96
22) Diisopropyl ether	3.770	45	486194	55.175	ug/l	95
23) Vinyl Acetate	3.727	43	2049454	283.754	ug/l	100
24) 1,1-Dichloroethane	3.623	63	255069	51.211	ug/l	97
25) 2-Butanone	4.562	43	398410	283.674	ug/l	98
26) 2,2-Dichloropropane	4.483	77	185064	49.229	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	164241	51.764	ug/l	97
28) Bromochloromethane	4.904	49	126113	60.847	ug/l	100
29) Tetrahydrofuran	5.019	42	254725	280.608	ug/l	99
30) Chloroform	5.099	83	265903	52.310	ug/l	98
31) Cyclohexane	5.477	56	202692	44.146	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	212180	48.495	ug/l	99
36) 1,1-Dichloropropene	5.702	75	168226	44.977	ug/l	99
37) Ethyl Acetate	4.721	43	196036	50.486	ug/l	98
38) Carbon Tetrachloride	5.684	117	183778	44.963	ug/l	99
39) Methylcyclohexane	7.385	83	197227	42.274	ug/l	95
40) Benzene	6.044	78	545222	48.701	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	83588	51.049	ug/l		94
42) 1,2-Dichloroethane	6.092	62	204929	51.678	ug/l		99
43) Isopropyl Acetate	6.342	43	298419	53.497	ug/l		100
44) Trichloroethene	7.129	130	131351	45.821	ug/l		93
45) 1,2-Dichloropropane	7.434	63	142494	50.806	ug/l		99
46) Dibromomethane	7.580	93	103627	50.893	ug/l		99
47) Bromodichloromethane	7.824	83	215133	50.965	ug/l		99
48) Methyl methacrylate	7.690	41	154171	53.246	ug/l		99
49) 1,4-Dioxane	7.684	88	32666	1160.527	ug/l		96
51) 4-Methyl-2-Pentanone	8.574	43	875170	272.635	ug/l		99
52) Toluene	8.720	92	333637	48.228	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	201870	54.796	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	220487	52.876	ug/l		99
55) 1,1,2-Trichloroethane	9.153	97	137274	52.264	ug/l		96
56) Ethyl methacrylate	9.116	69	211825	54.700	ug/l		99
57) 1,3-Dichloropropane	9.305	76	233945	52.271	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	493500	266.315	ug/l		99
59) 2-Hexanone	9.427	43	601025	270.676	ug/l		100
60) Dibromochloromethane	9.519	129	162215	51.968	ug/l		99
61) 1,2-Dibromoethane	9.610	107	141178	52.124	ug/l		100
64) Tetrachloroethene	9.275	164	106511	44.081	ug/l		98
65) Chlorobenzene	10.080	112	376884	47.476	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	132983	49.556	ug/l		99
67) Ethyl Benzene	10.195	91	642247	47.006	ug/l		100
68) m/p-Xylenes	10.299	106	484787	95.157	ug/l		100
69) o-Xylene	10.640	106	233222	47.570	ug/l		99
70) Styrene	10.653	104	417727	50.426	ug/l		100
71) Bromoform	10.799	173	105509	52.336	ug/l	#	99
73) Isopropylbenzene	10.957	105	594503	45.232	ug/l		99
74) N-amyl acetate	10.842	43	263829	52.861	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	194960	50.522	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	152071m	49.366	ug/l		
77) Bromobenzene	11.195	156	157141	48.962	ug/l		98
78) n-propylbenzene	11.299	91	717602	45.715	ug/l		100
79) 2-Chlorotoluene	11.360	91	438581	46.220	ug/l		99
80) 1,3,5-Trimethylbenzene	11.445	105	505924	46.784	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	30598	44.250	ug/l		100
82) 4-Chlorotoluene	11.451	91	521477	46.620	ug/l		100
83) tert-Butylbenzene	11.713	119	507953	47.081	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	513998	47.529	ug/l		99
85) sec-Butylbenzene	11.890	105	609145	45.552	ug/l		100
86) p-Isopropyltoluene	12.006	119	514402	45.458	ug/l		99
87) 1,3-Dichlorobenzene	11.963	146	285904	46.630	ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	291680	46.253	ug/l		100
89) n-Butylbenzene	12.329	91	480705	45.672	ug/l		100
90) Hexachloroethane	12.536	117	91716	46.201	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	278982	47.938	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	37258	49.925	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	187378	48.028	ug/l		99
94) Hexachlorobutadiene	13.725	225	63372	45.633	ug/l		100
95) Naphthalene	13.774	128	571033	51.217	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	181090	49.242	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

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\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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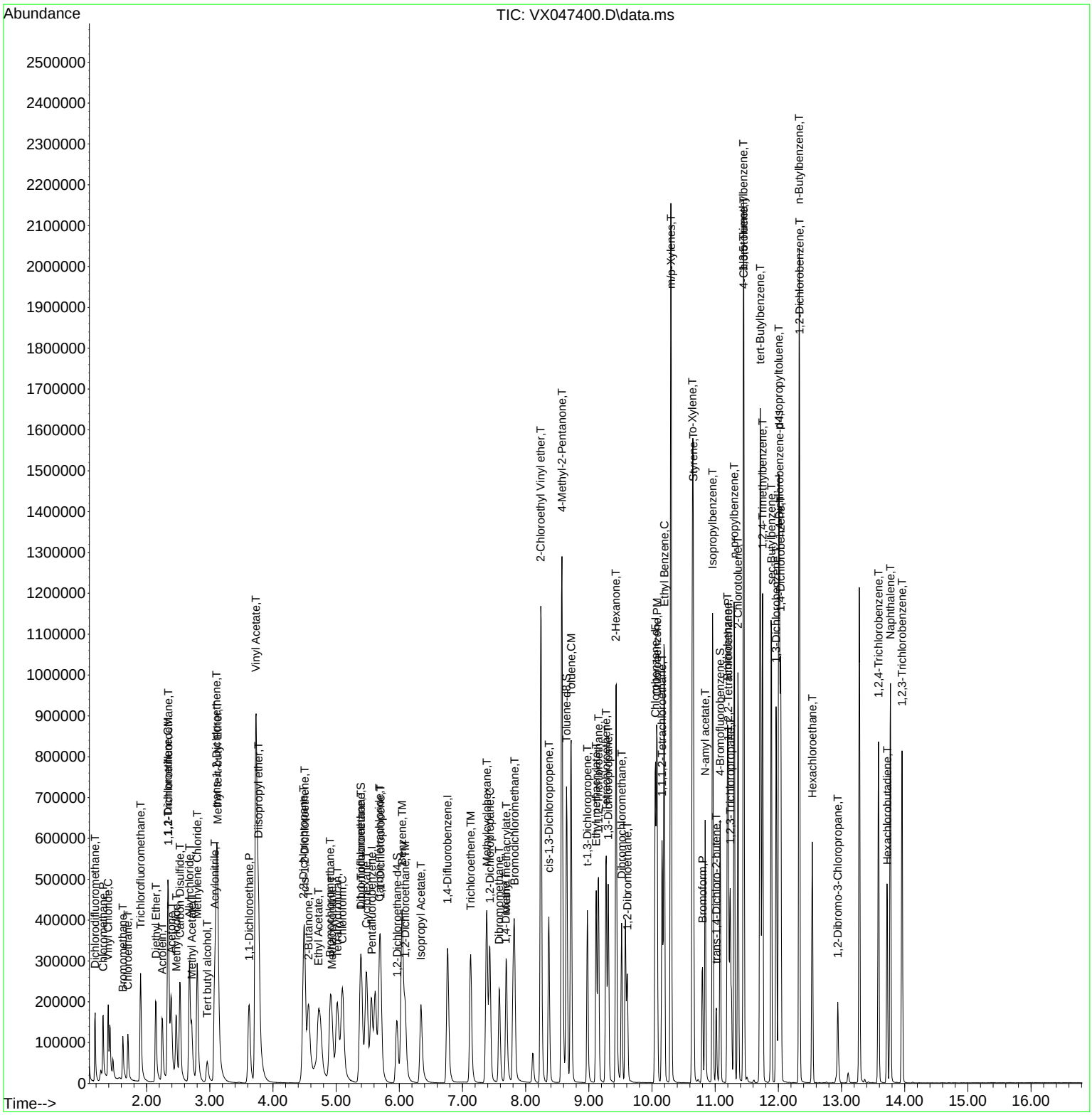
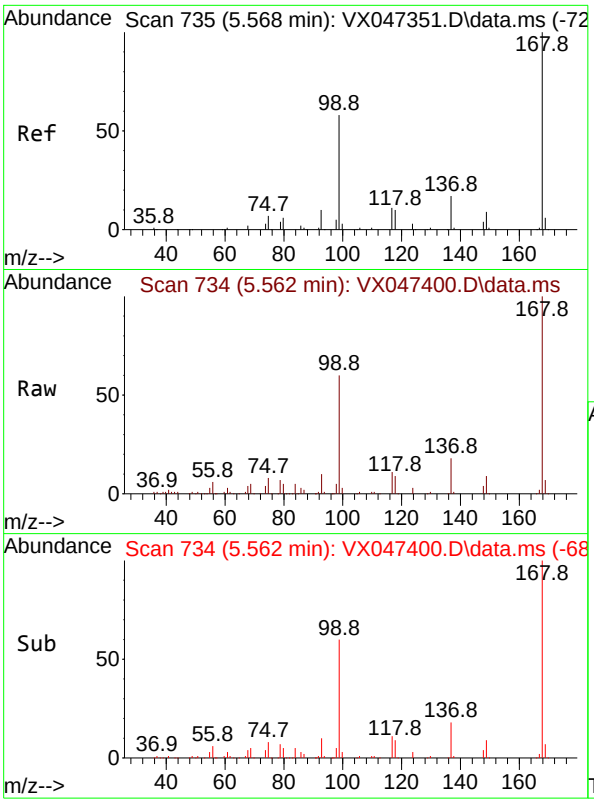
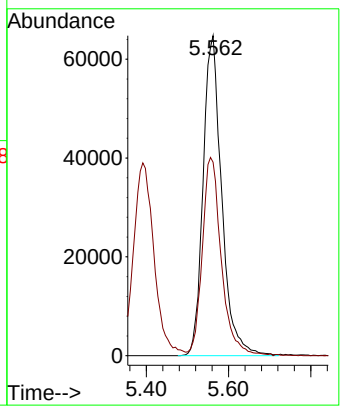




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:168 Resp: 20385

Ion	Ratio	Lower	Upper
168	100		
99	60.1	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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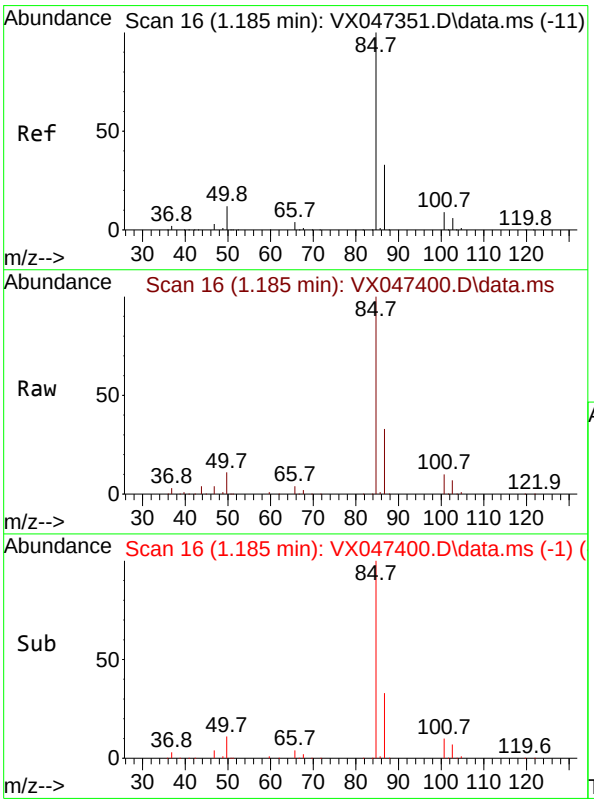
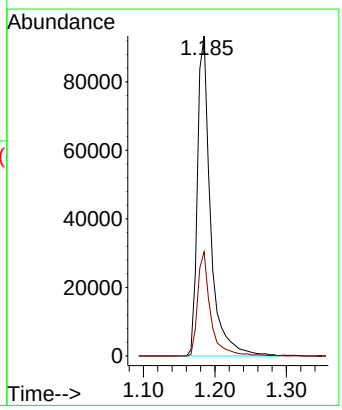
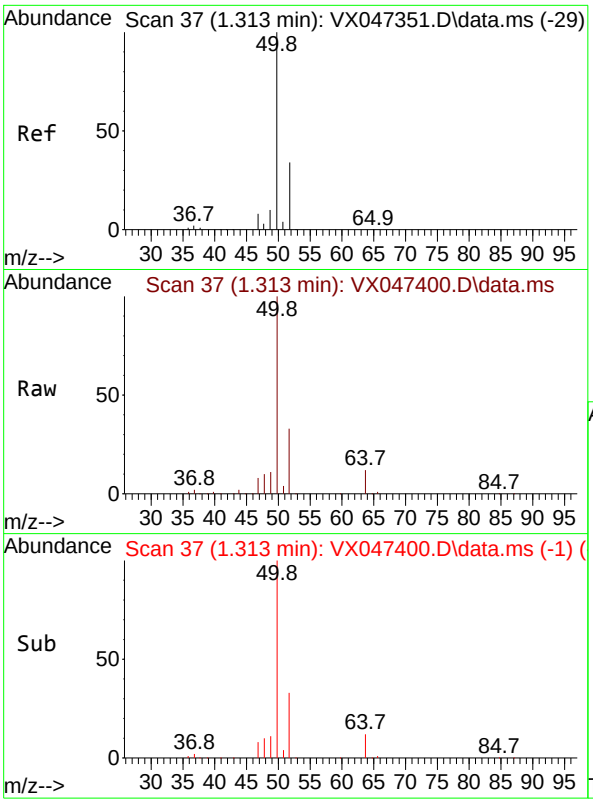


#2
Dichlorodifluoromethane
Concen: 45.787 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 85 Resp: 118983

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.4	49.1

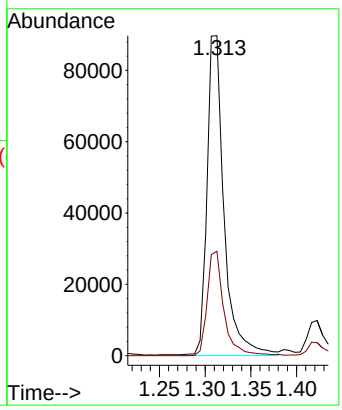




#3
Chloromethane
Concen: 49.503 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 50 Resp: 11572

Ion	Ratio	Lower	Upper
50	100		
52	32.7	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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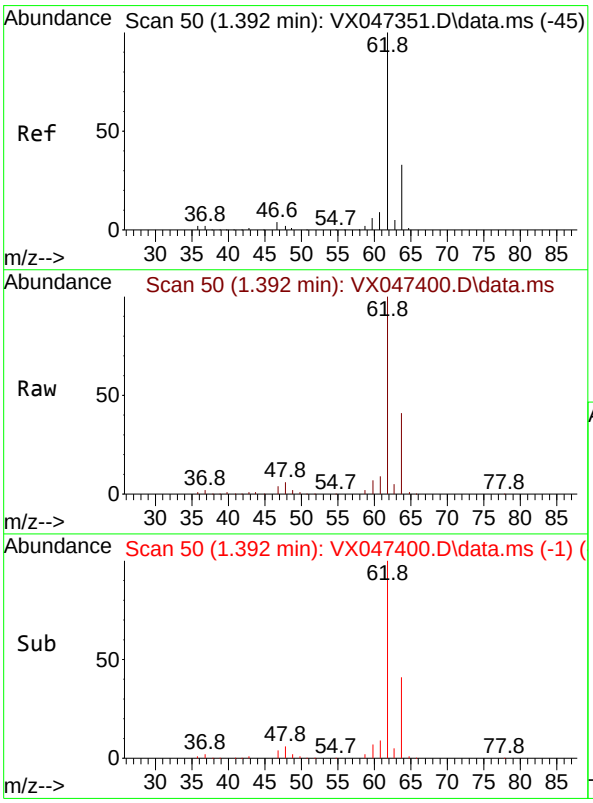
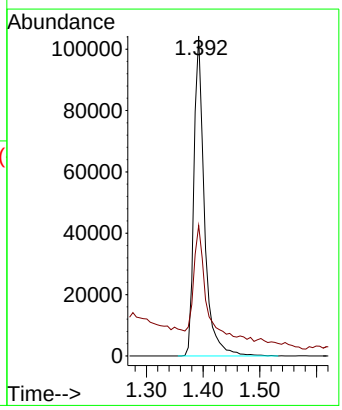
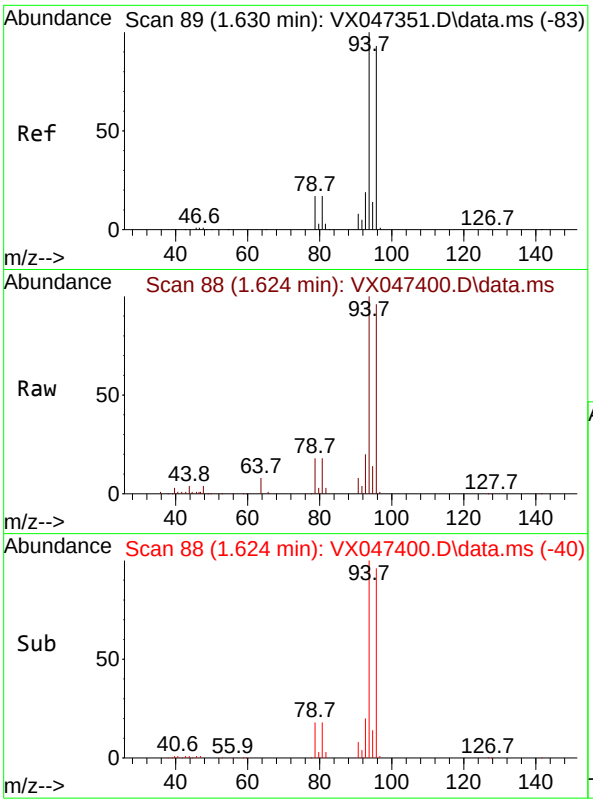


#4
Vinyl Chloride
Concen: 45.739 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 62 Resp: 134206

Ion	Ratio	Lower	Upper
62	100		
64	36.9	26.5	39.7

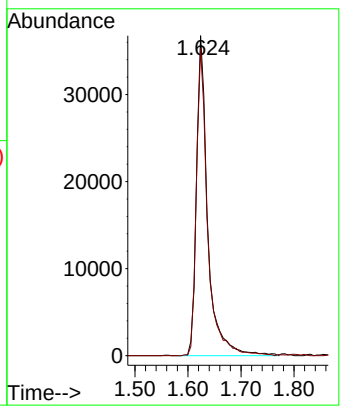




#5
Bromomethane
Concen: 45.891 ug/l
RT: 1.624 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 94 Resp: 5438

Ion	Ratio	Lower	Upper
94	100		
96	95.9	74.7	112.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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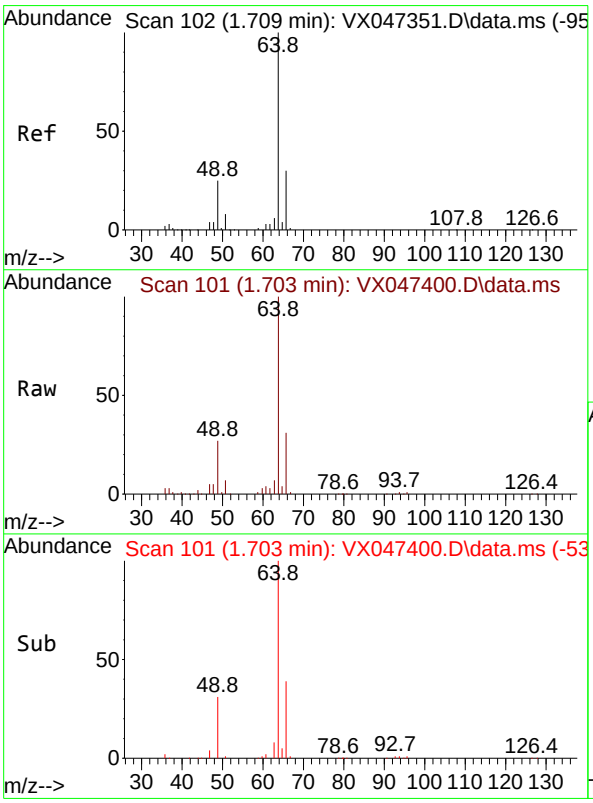
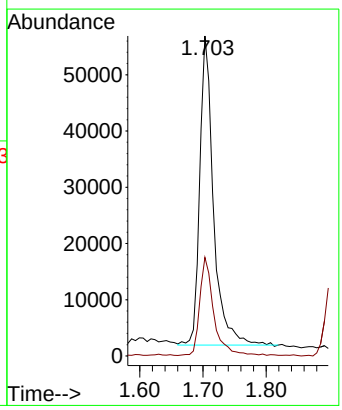
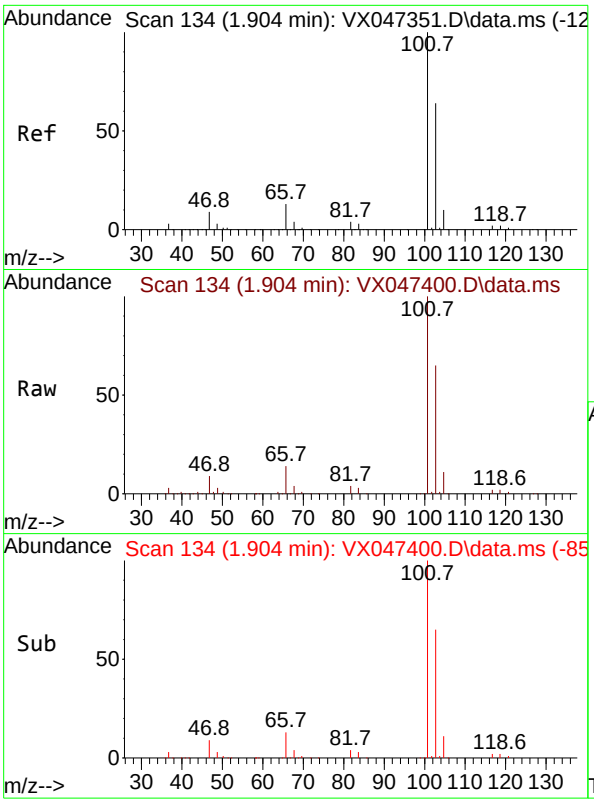


#6
Chloroethane
Concen: 46.281 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 64 Resp: 83086

Ion	Ratio	Lower	Upper
64	100		
66	31.7	24.4	36.6

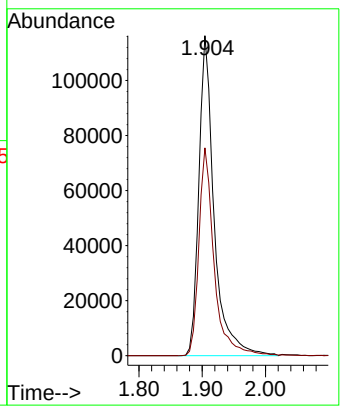




#7
Trichlorofluoromethane
Concen: 44.970 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:101 Resp: 19517

Ion	Ratio	Lower	Upper
101	100		
103	65.0	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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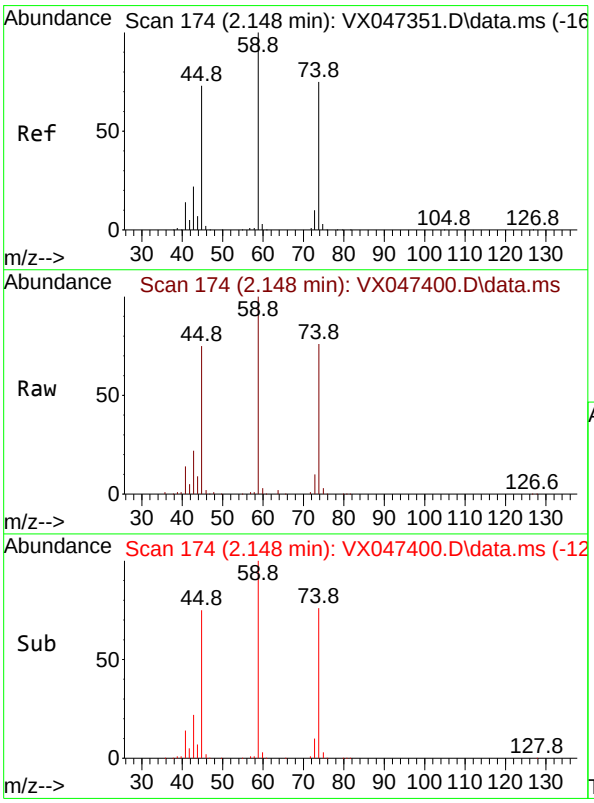
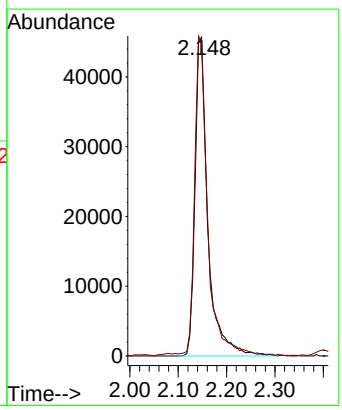
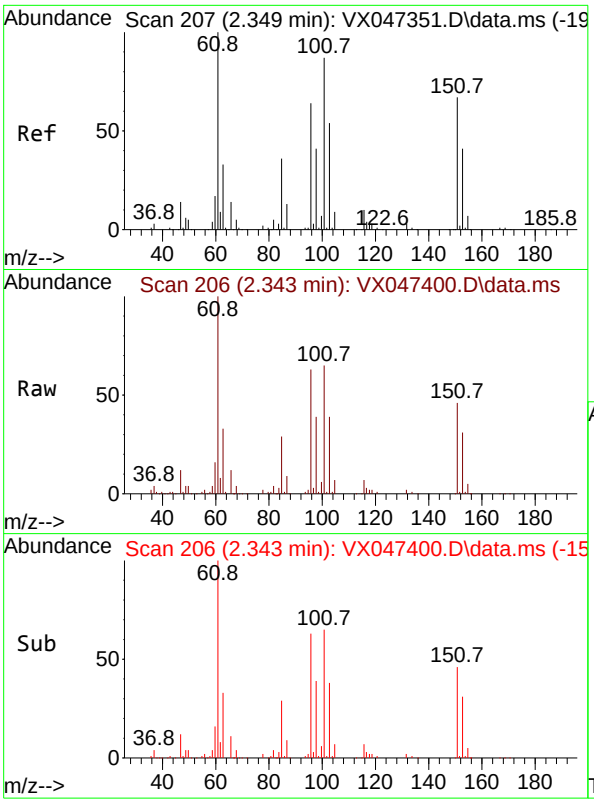


#8
Diethyl Ether
Concen: 55.128 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 74 Resp: 84247

Ion	Ratio	Lower	Upper
74	100		
45	99.3	51.3	154.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.108 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:101 Resp: 11860

Ion	Ratio	Lower	Upper
101	100		
85	42.9	34.3	51.5
151	72.7	59.2	88.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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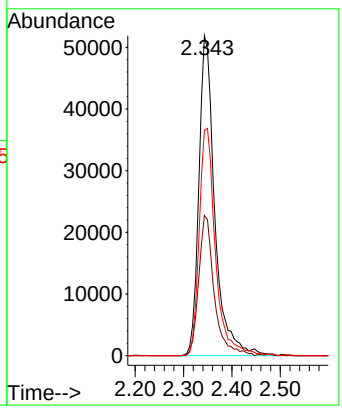
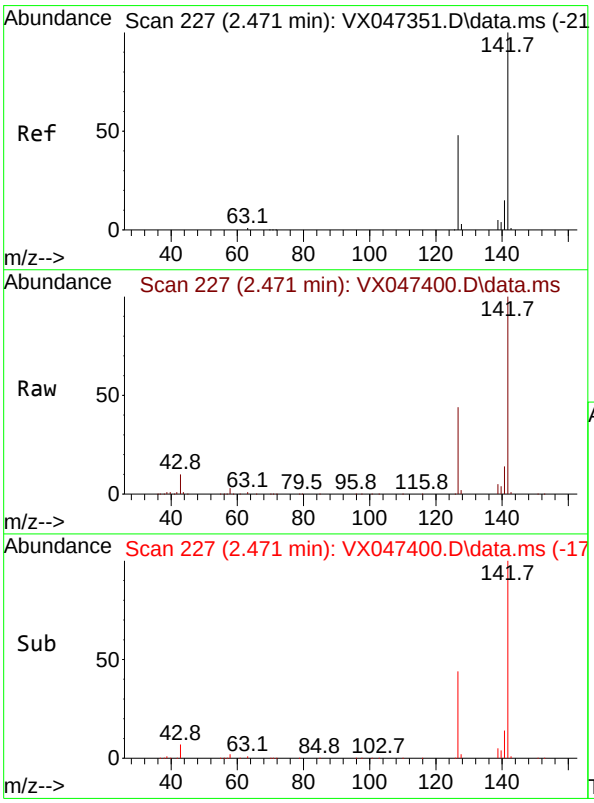
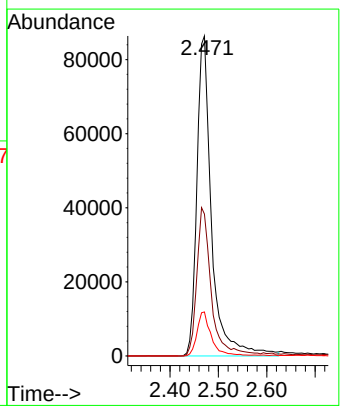


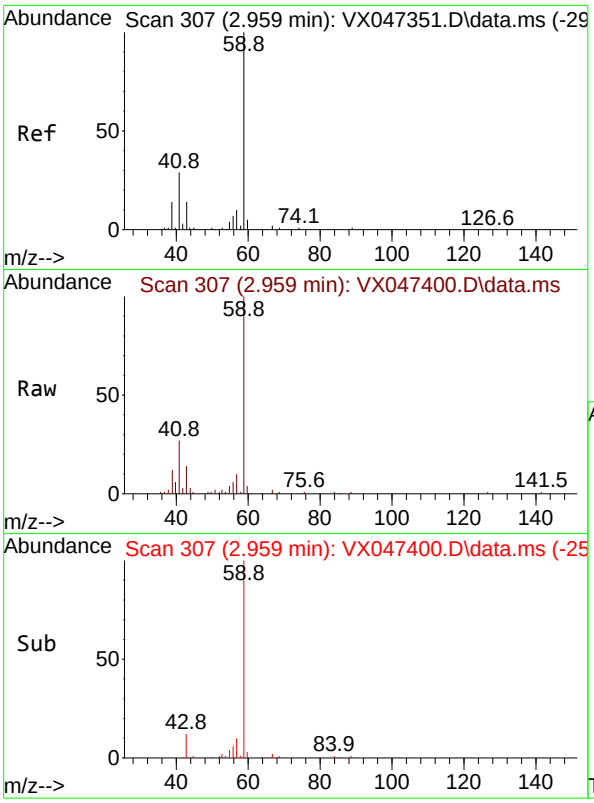


#10
Methyl Iodide
Concen: 42.186 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:142 Resp: 182007

Ion	Ratio	Lower	Upper
142	100		
127	45.8	36.1	54.1
141	13.4	11.1	16.7

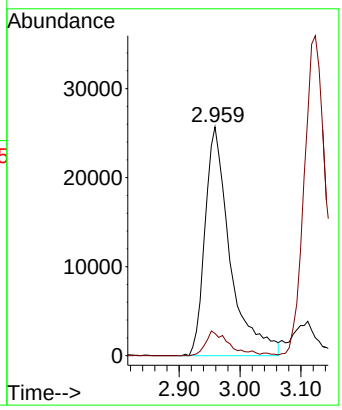




#11
Tert butyl alcohol
Concen: 295.893 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 59 Resp: 7343

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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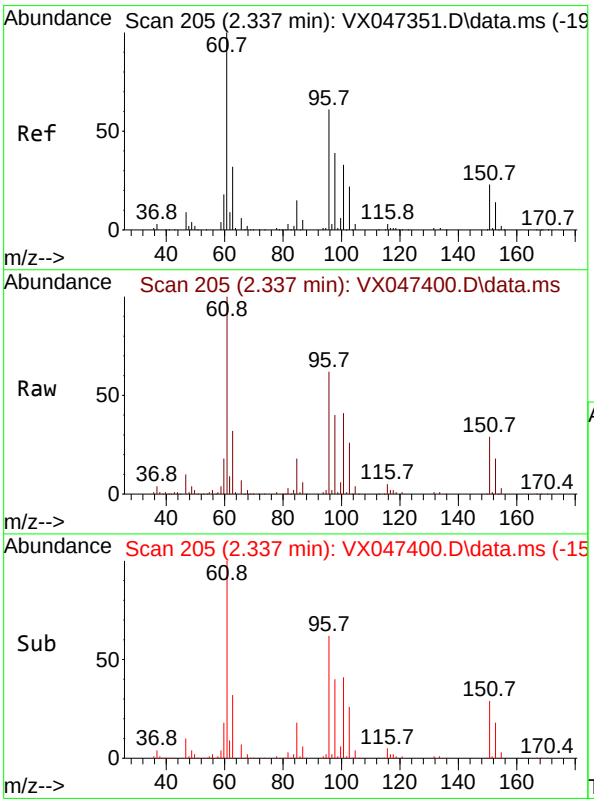
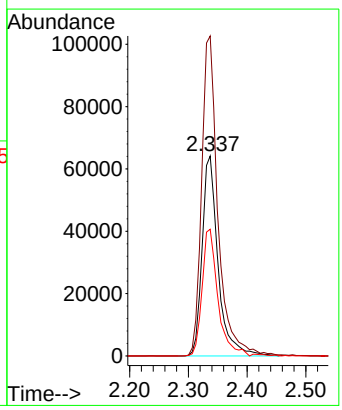
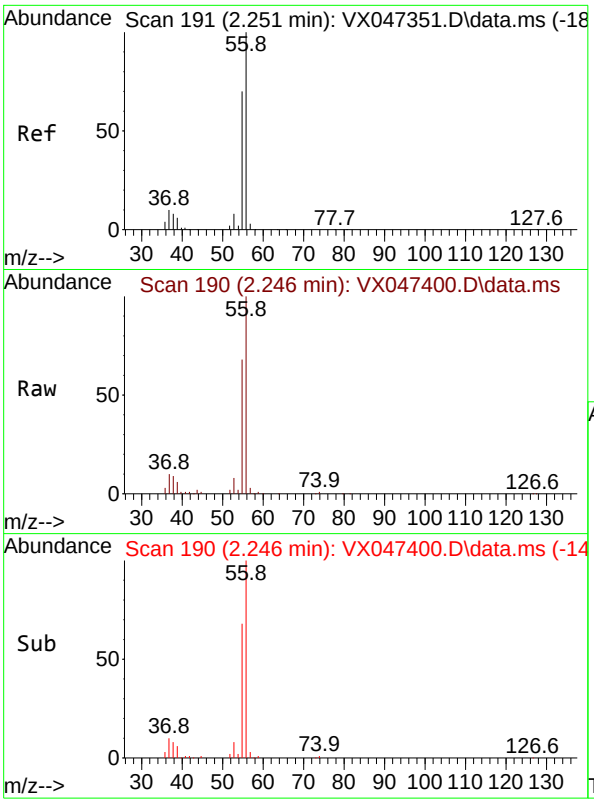


#12
1,1-Dichloroethene
Concen: 47.332 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 96 Resp: 121485

Ion	Ratio	Lower	Upper
96	100		
61	160.1	132.2	198.2
98	63.4	51.2	76.8

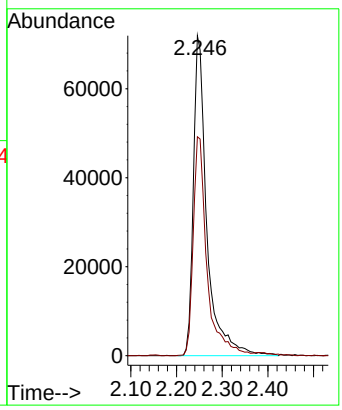




#13
Acrolein
Concen: 281.792 ug/l
RT: 2.246 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 56 Resp: 14763

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.5	83.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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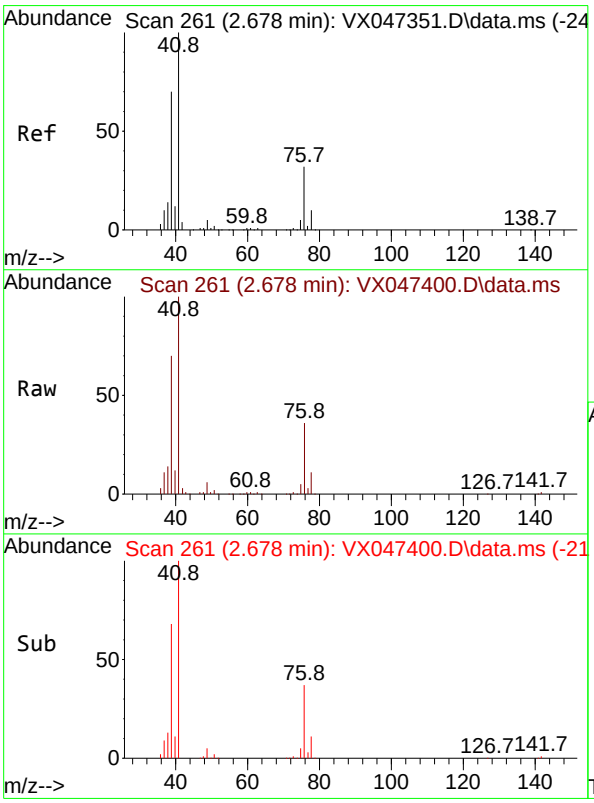
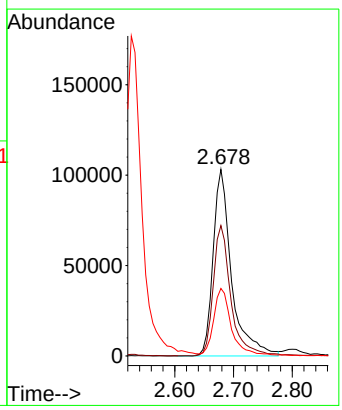
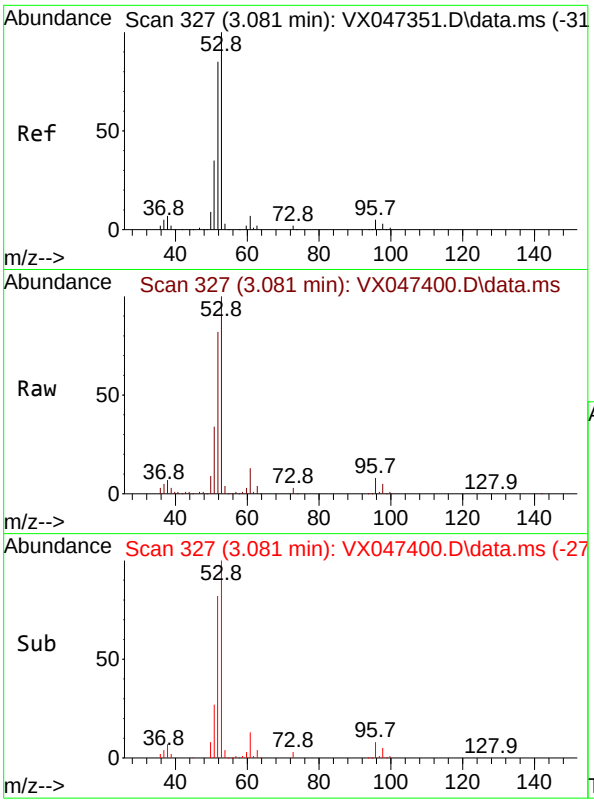


#14
Allyl chloride
Concen: 50.583 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 41 Resp: 225494

Ion	Ratio	Lower	Upper
41	100		
39	67.2	54.6	81.8
76	34.9	27.6	41.4





#15
Acrylonitrile
Concen: 285.809 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 53 Resp: 34277

Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.8	98.6
51	35.6	28.2	42.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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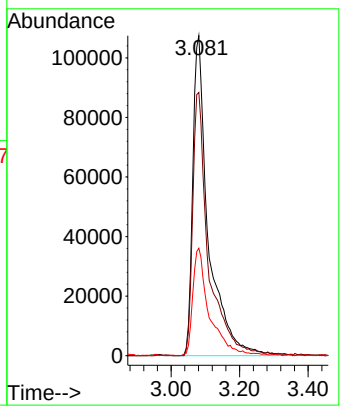
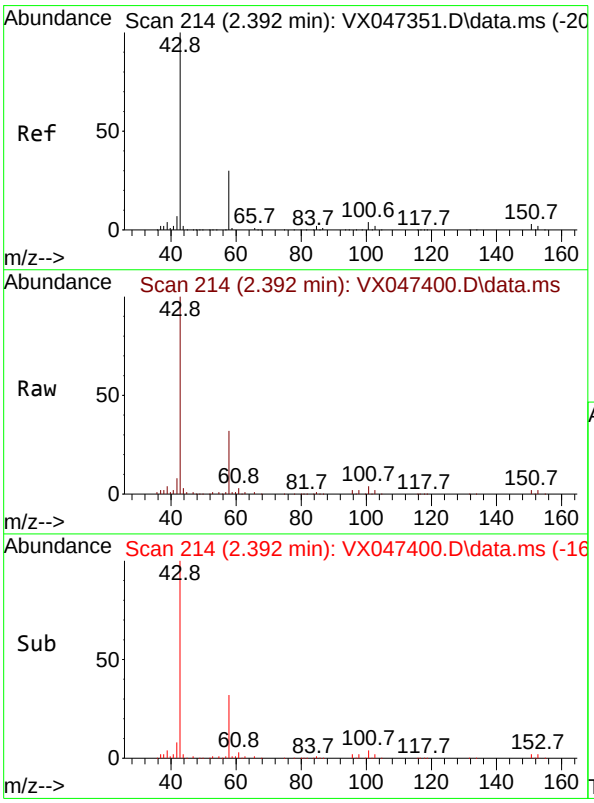
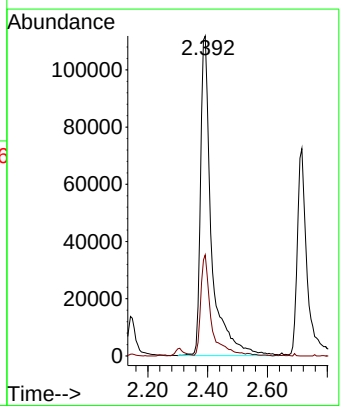


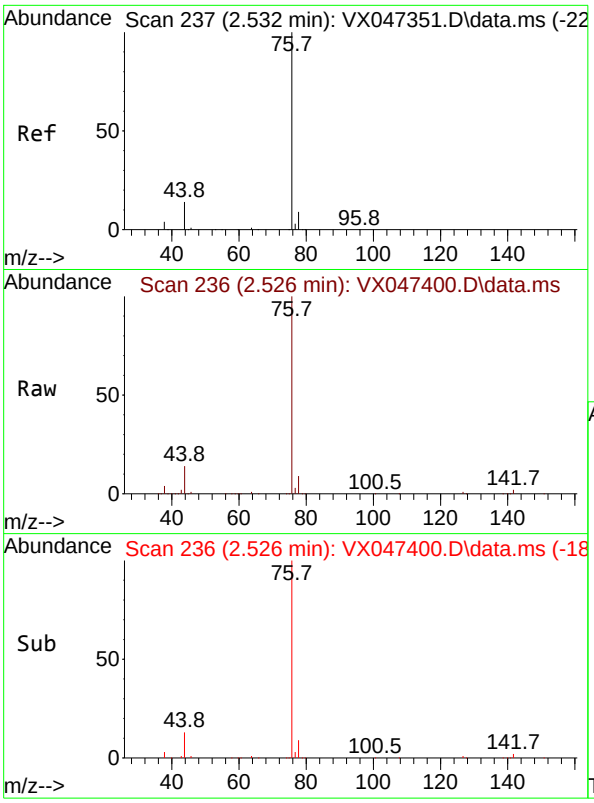


#16
Acetone
Concen: 267.129 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 286462

Ion	Ratio	Lower	Upper
43	100		
58	31.5	24.8	37.2

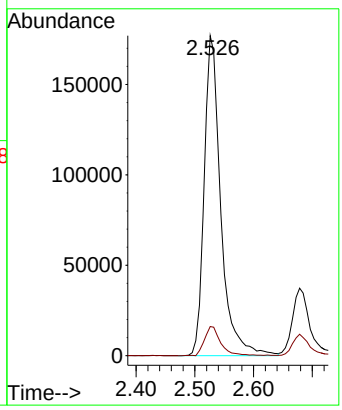




#17
Carbon Disulfide
Concen: 44.886 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 76 Resp: 34765

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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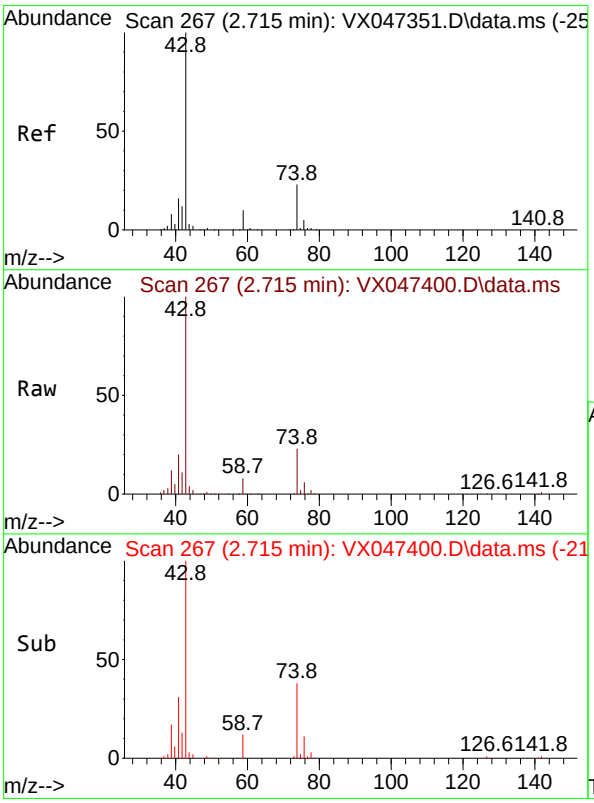
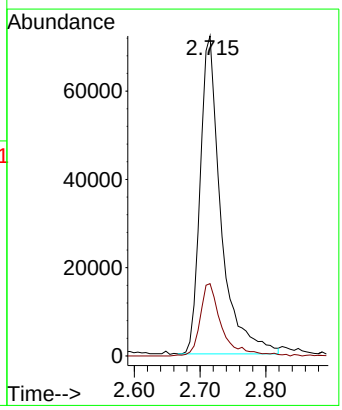
Supervised By :Mahesh Dadoda 08/20/2025

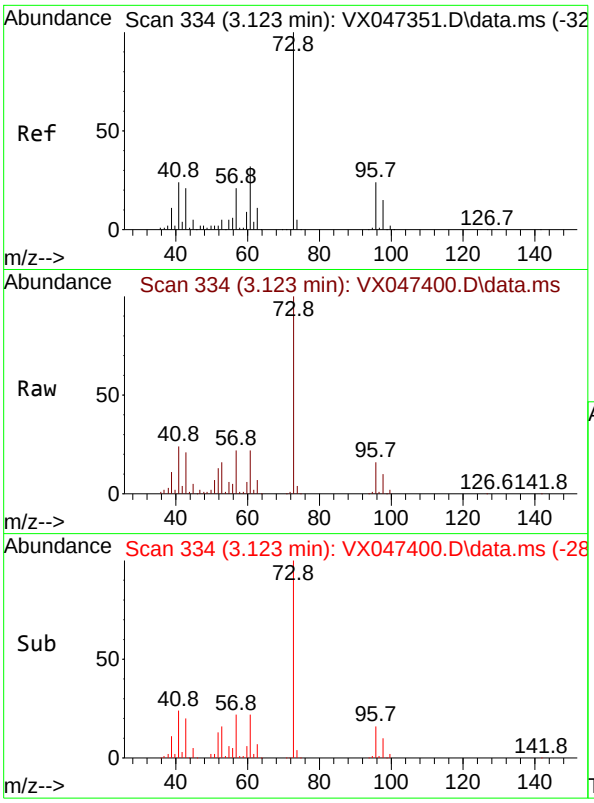


#18
Methyl Acetate
Concen: 56.879 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 158065

Ion	Ratio	Lower	Upper
43	100		
74	23.6	18.4	27.6

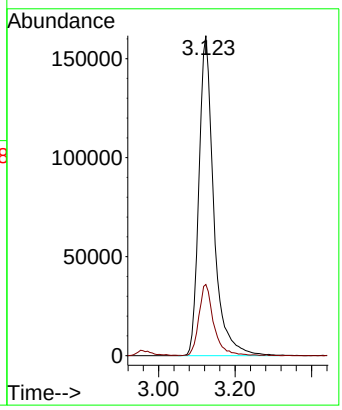




#19
Methyl tert-butyl Ether
Concen: 55.686 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 73 Resp: 43480

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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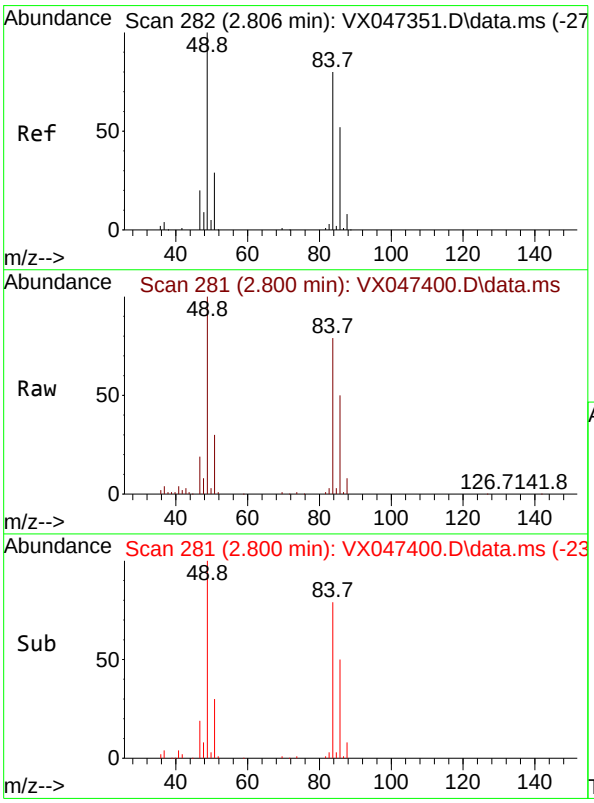
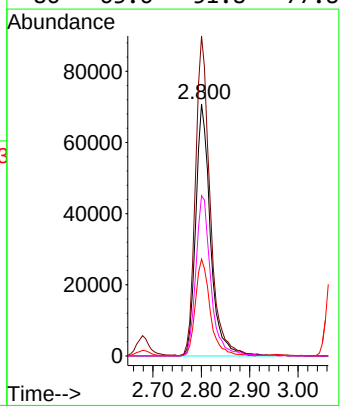
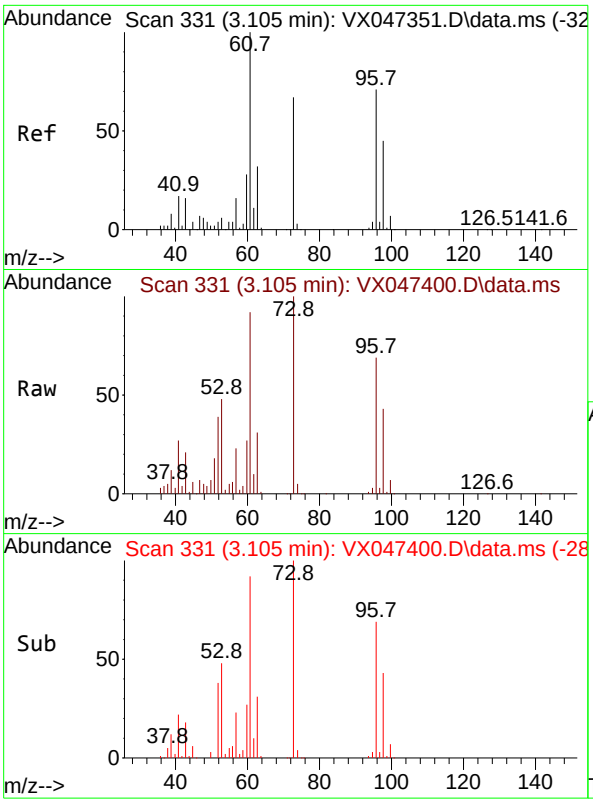


#20
Methylene Chloride
Concen: 52.640 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 84 Resp: 149480

Ion	Ratio	Lower	Upper
84	100		
49	126.9	100.1	150.1
51	38.3	29.5	44.3
86	63.6	51.8	77.8





#21
trans-1,2-Dichloroethene
Concen: 49.068 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 96 Resp: 13366

Ion	Ratio	Lower	Upper
96	100		
61	134.6	112.6	169.0
98	63.0	50.9	76.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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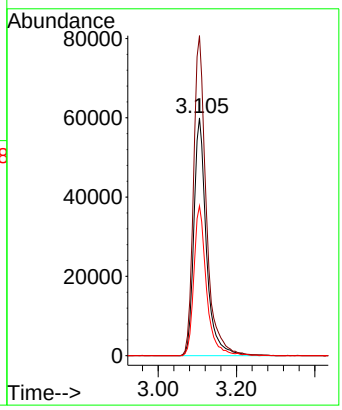
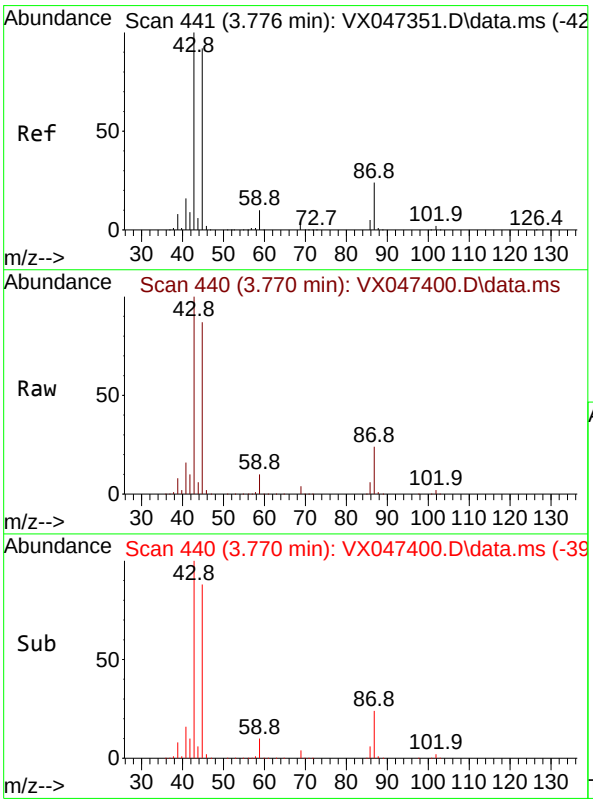
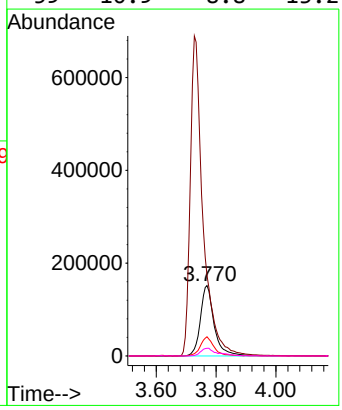


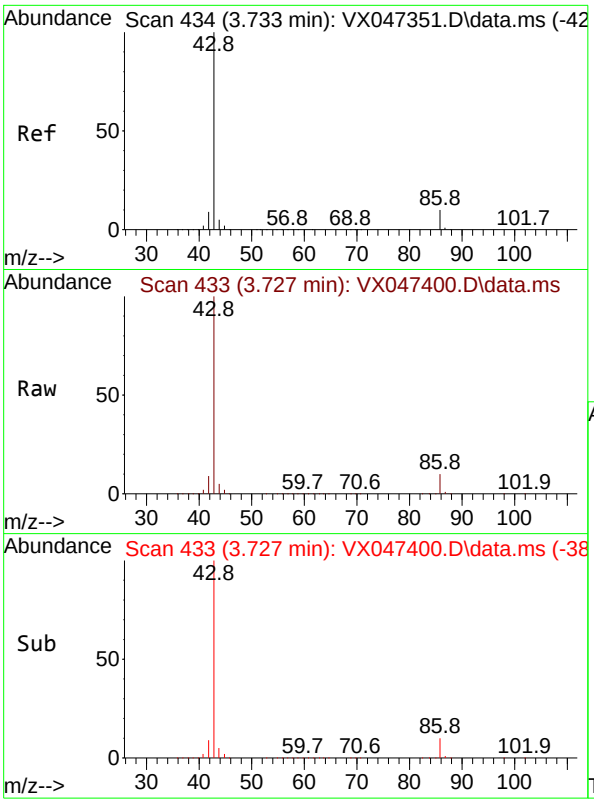


#22
Diisopropyl ether
Concen: 55.175 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 45 Resp: 486194

Ion	Ratio	Lower	Upper
45	100		
43	114.3	86.8	130.2
87	27.2	20.4	30.6
59	10.9	8.8	13.2





#23
Vinyl Acetate
Concen: 283.754 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 204945

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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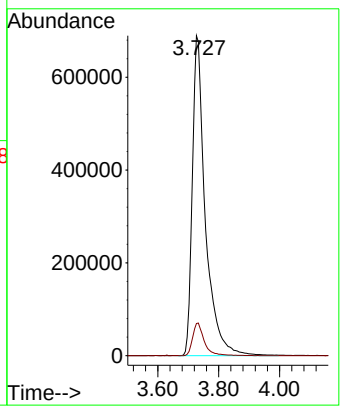
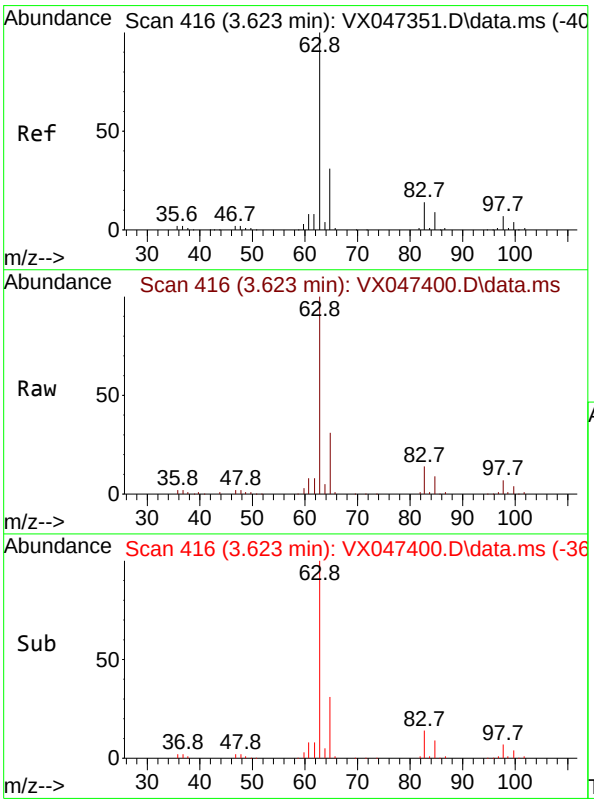
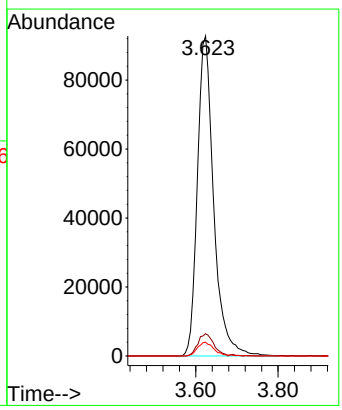


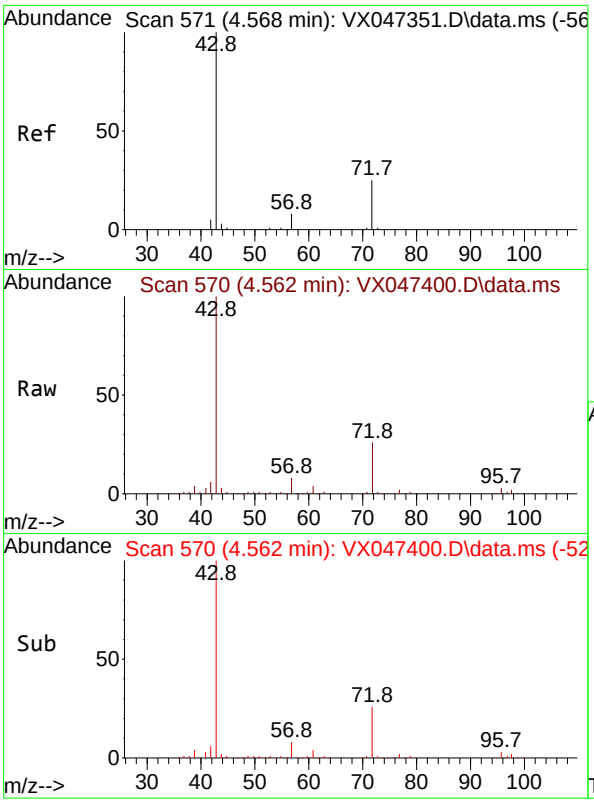


#24
1,1-Dichloroethane
Concen: 51.211 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 63 Resp: 255069

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.3	9.9
100	4.6	2.1	6.3





#25
2-Butanone
Concen: 283.674 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 39841

Ion	Ratio	Lower	Upper
43	100		
72	25.7	19.8	29.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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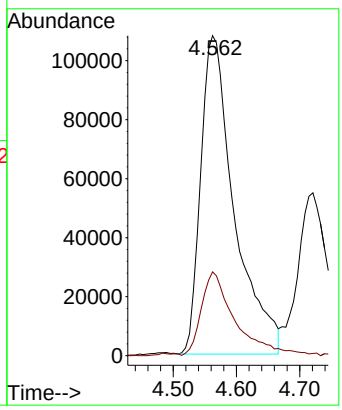
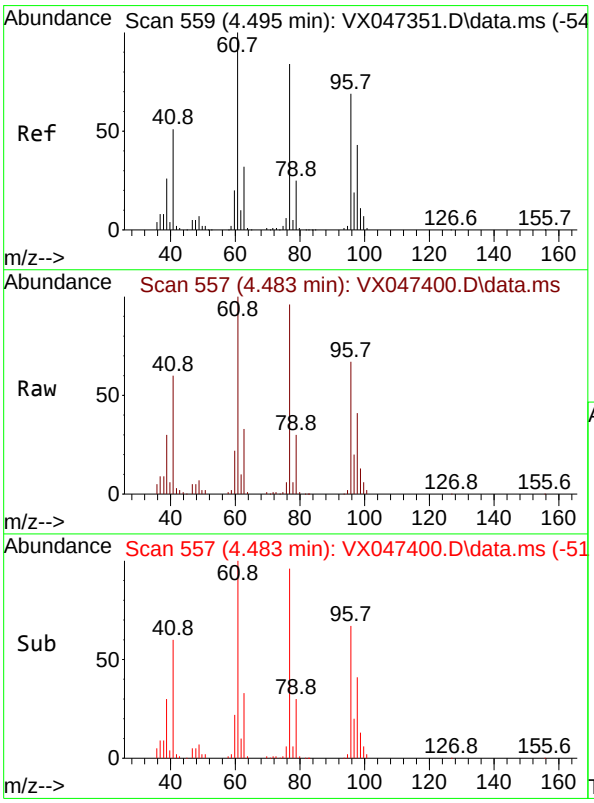
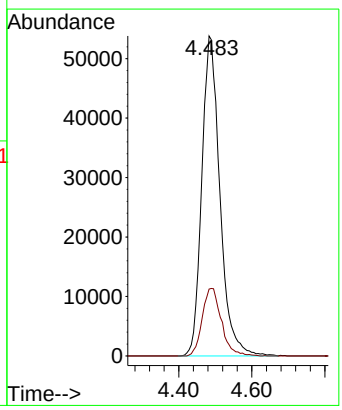


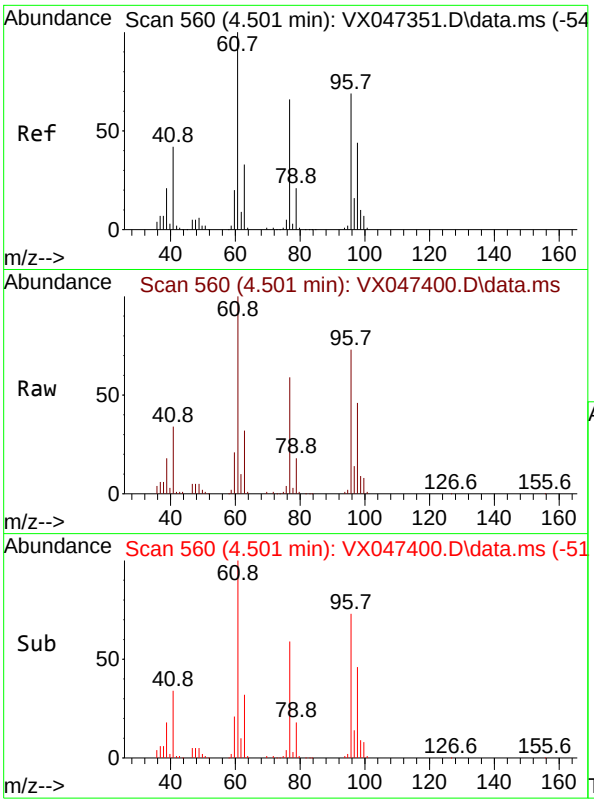


#26
2,2-Dichloropropane
Concen: 49.229 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.012 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 77 Resp: 185064

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.4	34.1

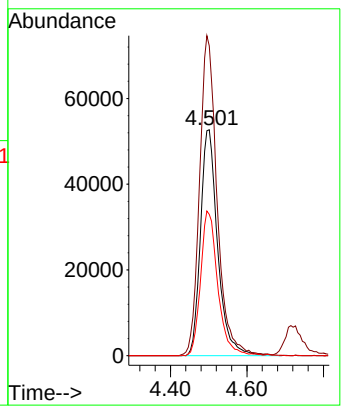




#27
cis-1,2-Dichloroethene
Concen: 51.764 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 96 Resp: 16424

Ion	Ratio	Lower	Upper
96	100		
61	144.5	0.0	296.6
98	63.7	0.0	130.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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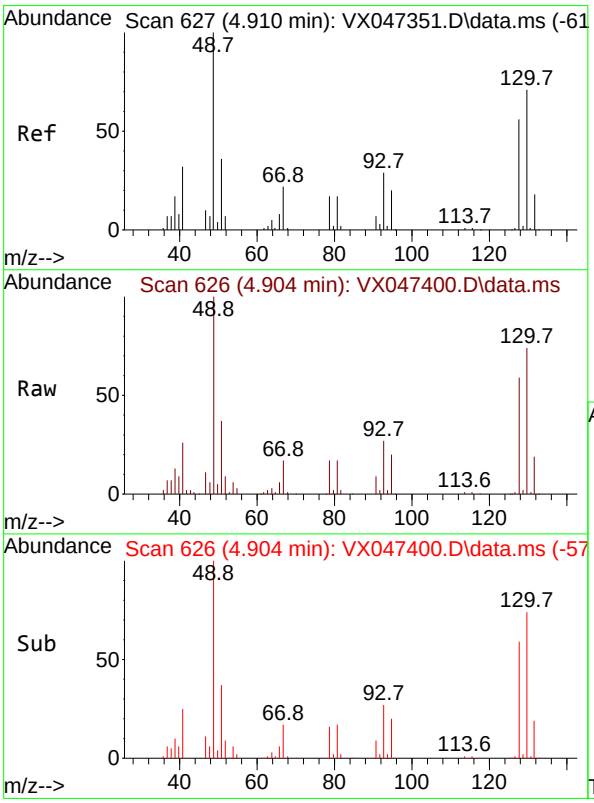
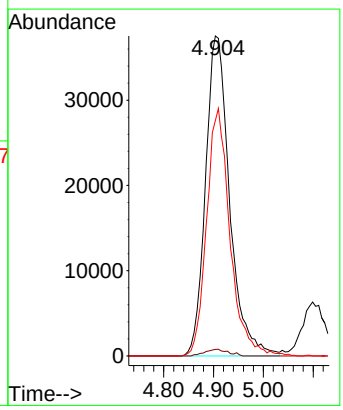
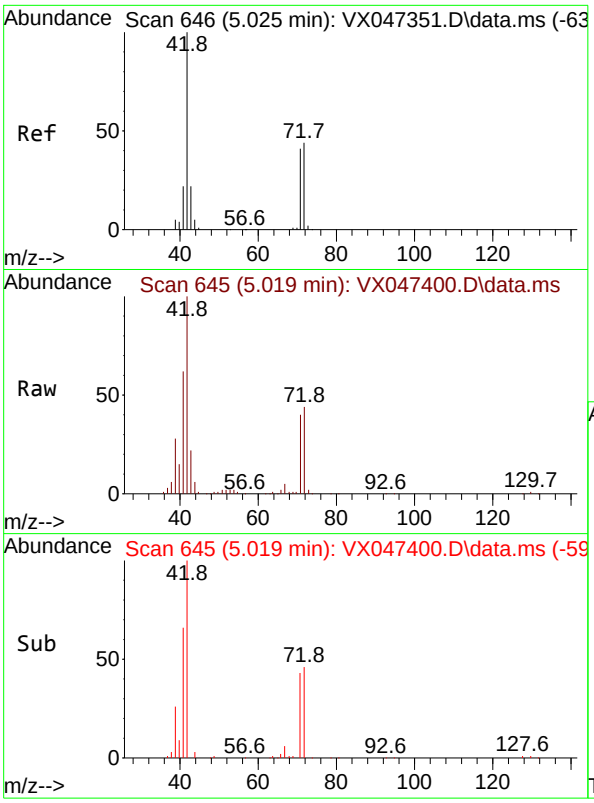


#28
Bromochloromethane
Concen: 60.847 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 49 Resp: 126113

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	74.9	59.8	89.6

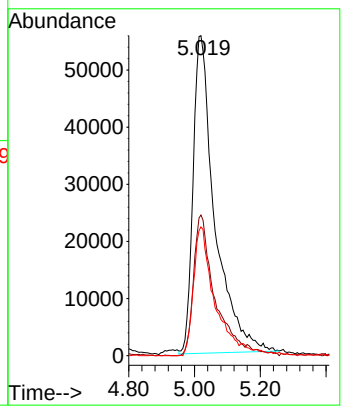




#29
Tetrahydrofuran
Concen: 280.608 ug/l
RT: 5.019 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 42 Resp: 25472

Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.6	51.8
71	40.1	32.6	49.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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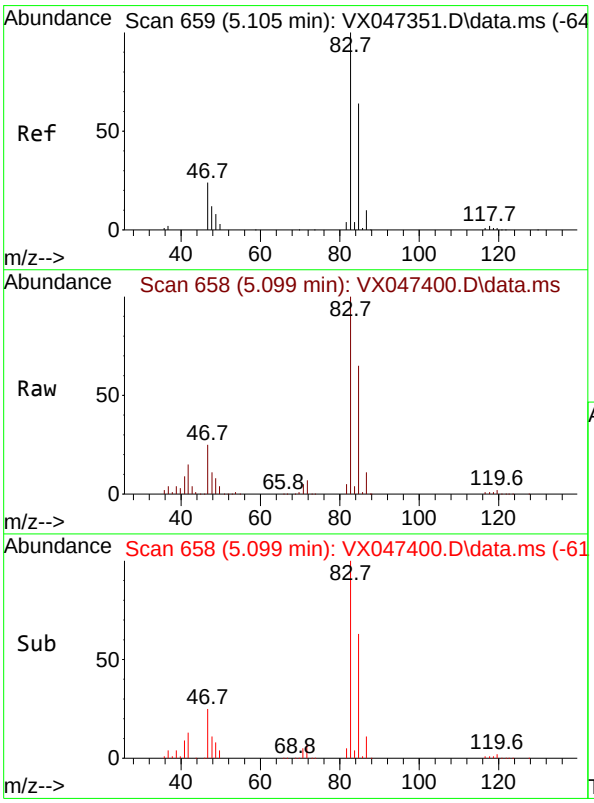
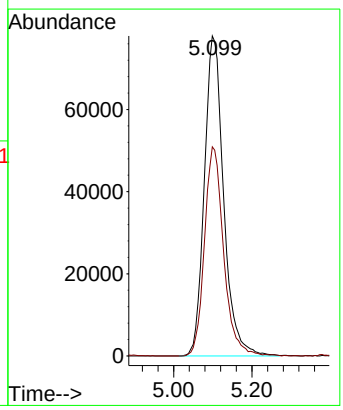
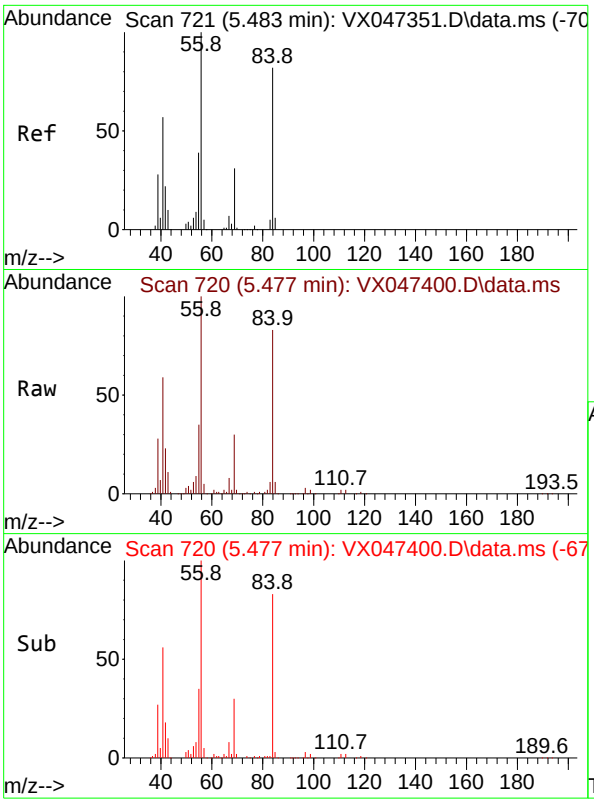


#30
Chloroform
Concen: 52.310 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 83 Resp: 265903

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.2	76.8

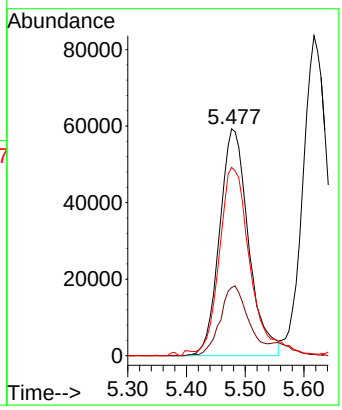




#31
Cyclohexane
Concen: 44.146 ug/l
RT: 5.477 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 56 Resp: 20269

Ion	Ratio	Lower	Upper
56	100		
69	32.0	24.3	36.5
84	82.7	65.3	97.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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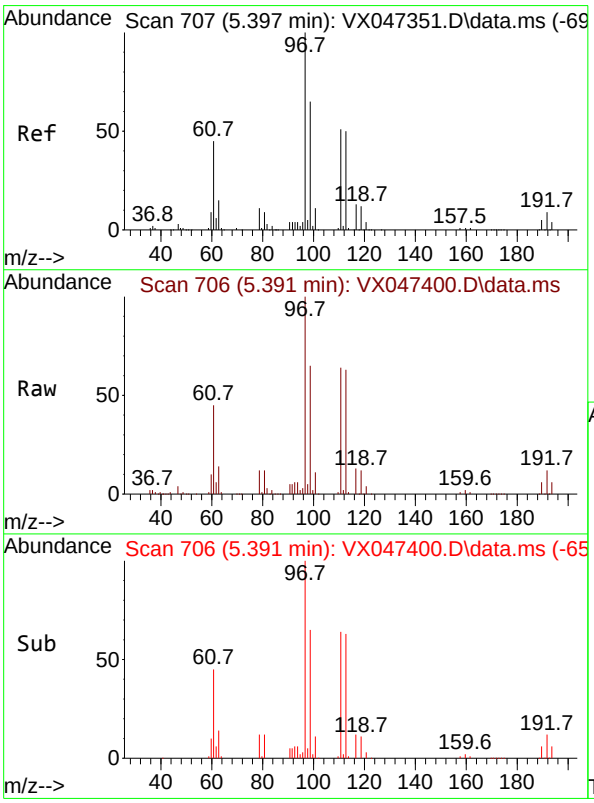
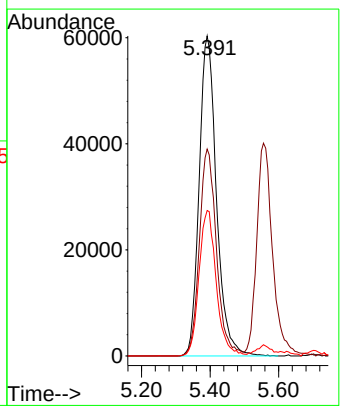
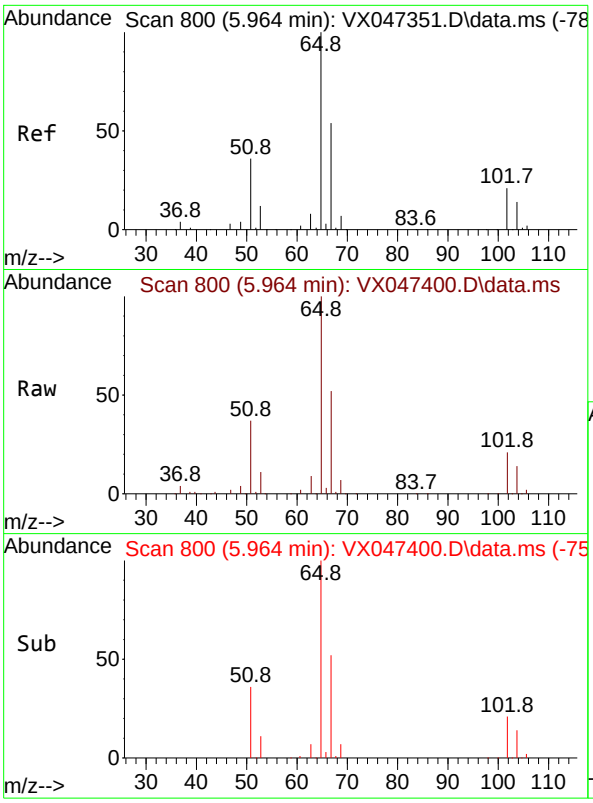


#32
1,1,1-Trichloroethane
Concen: 48.495 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 97 Resp: 212180

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.4	77.0
61	45.4	35.7	53.5

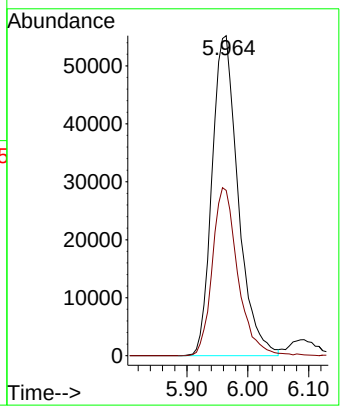




#33
1,2-Dichloroethane-d4
Concen: 57.514 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 65 Resp: 16408

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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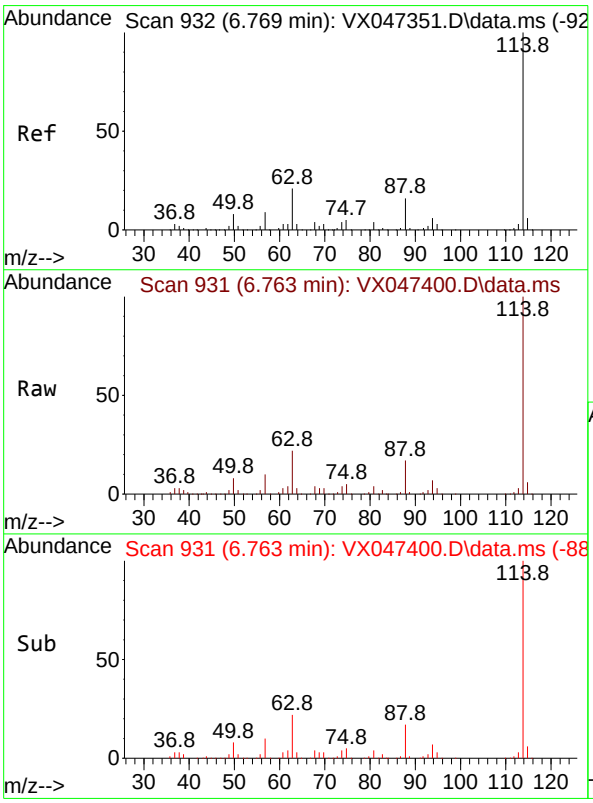
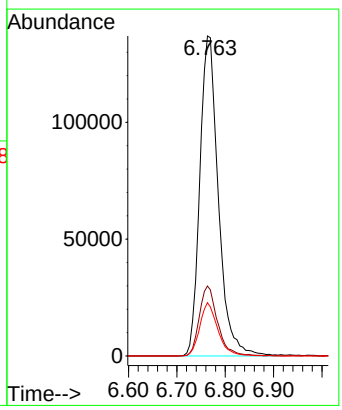
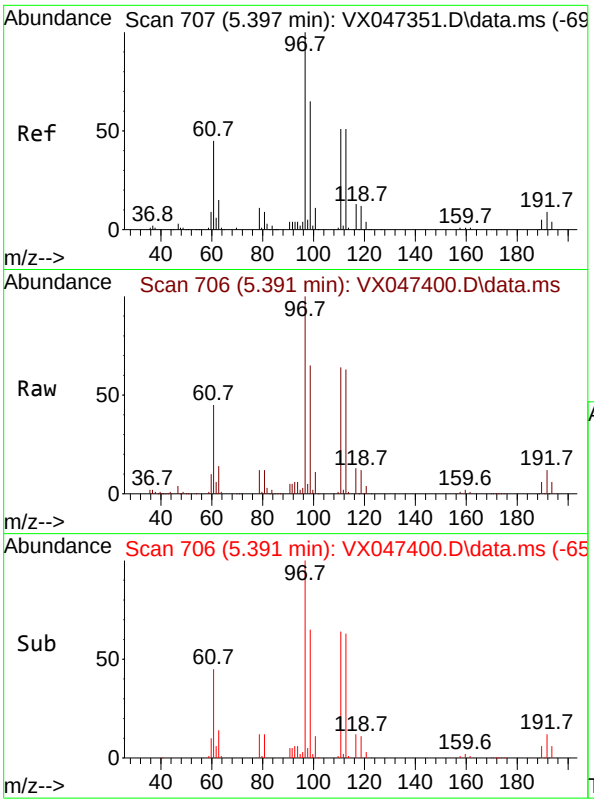


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:114 Resp: 365078

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	42.4
88	16.6	0.0	33.0

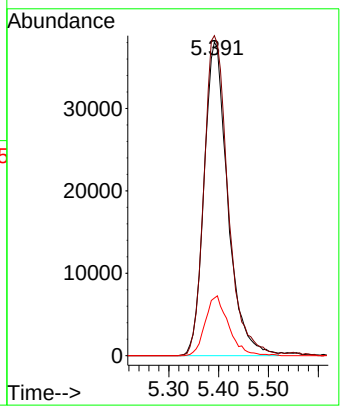




#35
Dibromofluoromethane
Concen: 53.029 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:113 Resp: 12564

Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.4	122.2
192	18.8	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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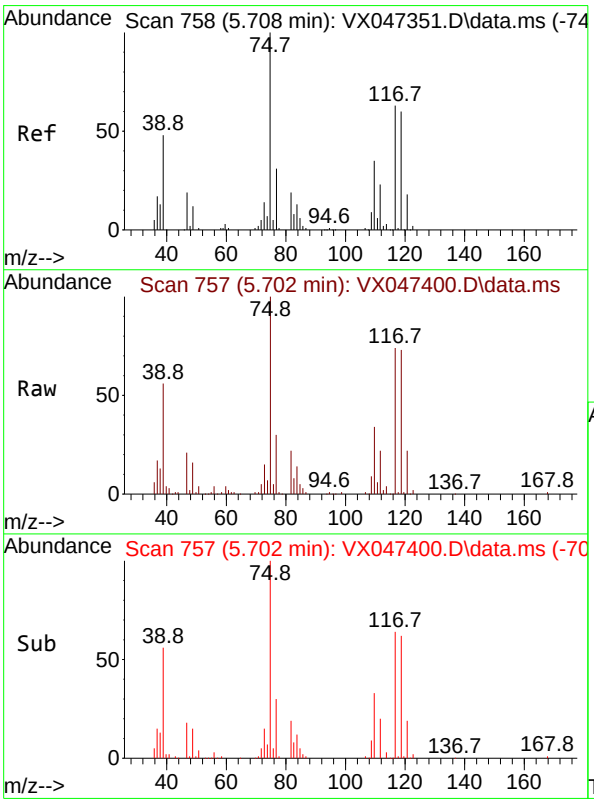
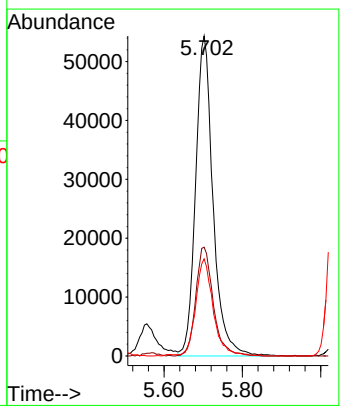
Supervised By :Mahesh Dadoda 08/20/2025

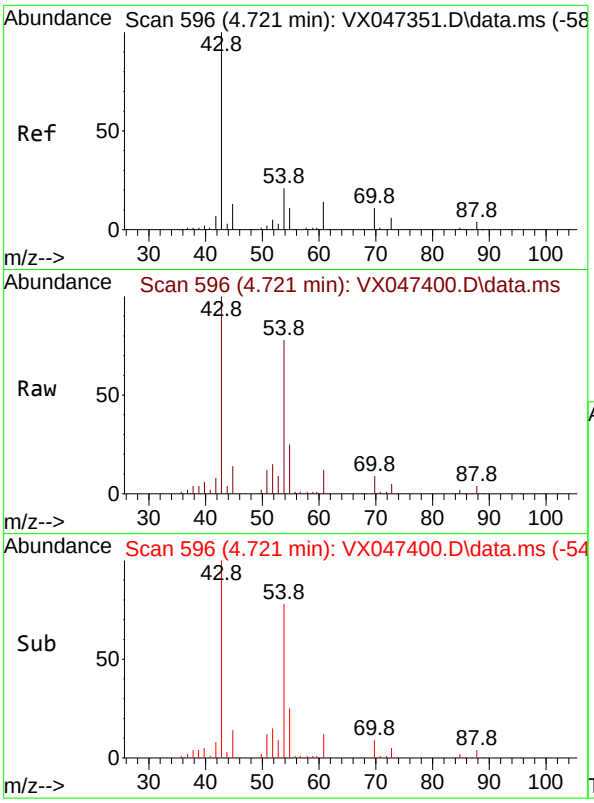


#36
1,1-Dichloropropene
Concen: 44.977 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 75 Resp: 168226

Ion	Ratio	Lower	Upper
75	100		
110	34.3	17.4	52.2
77	29.9	24.4	36.6

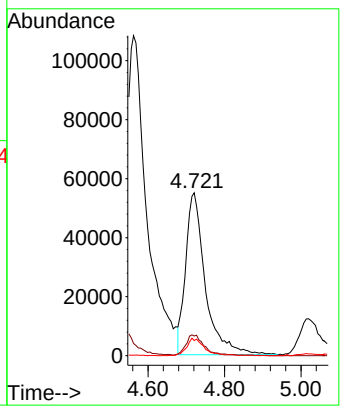




#37
Ethyl Acetate
Concen: 50.486 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 19603

Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.4	14.2
70	9.4	7.0	10.6



Instrument :
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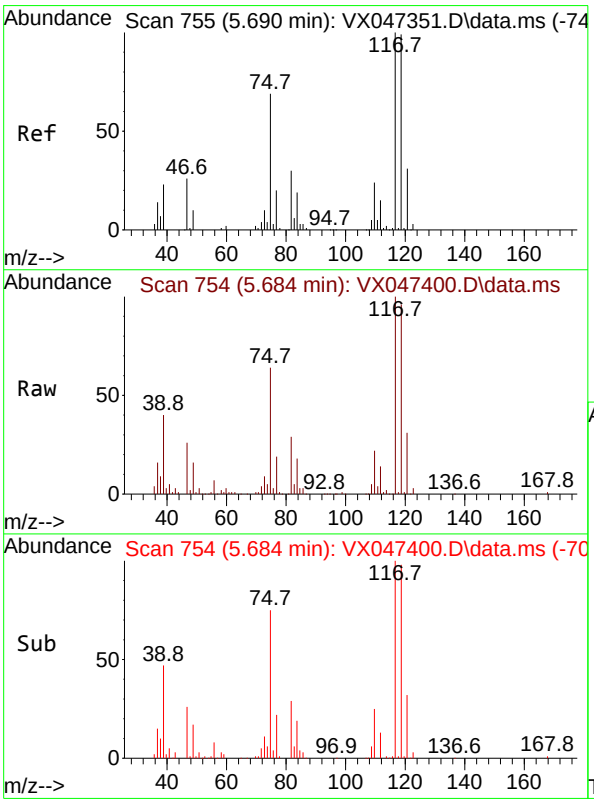
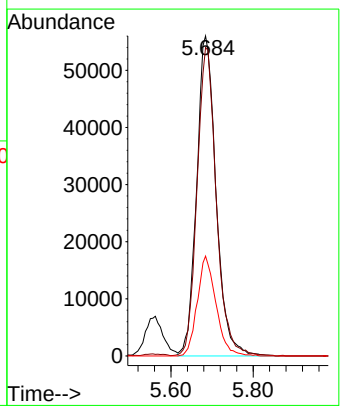
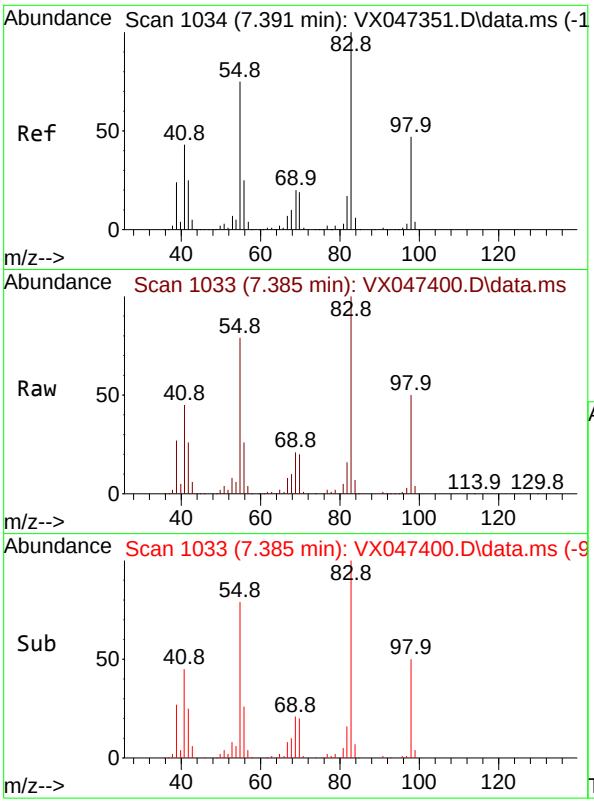


#38
Carbon Tetrachloride
Concen: 44.963 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:117 Resp: 183778

Ion	Ratio	Lower	Upper
117	100		
119	96.3	78.5	117.7
121	31.2	24.7	37.1

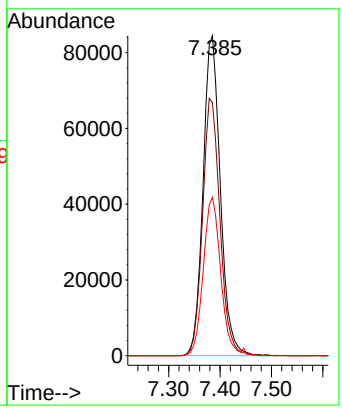




#39
Methylcyclohexane
Concen: 42.274 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 83 Resp: 19722

Ion	Ratio	Lower	Upper
83	100		
55	79.1	60.0	90.0
98	49.5	37.2	55.8



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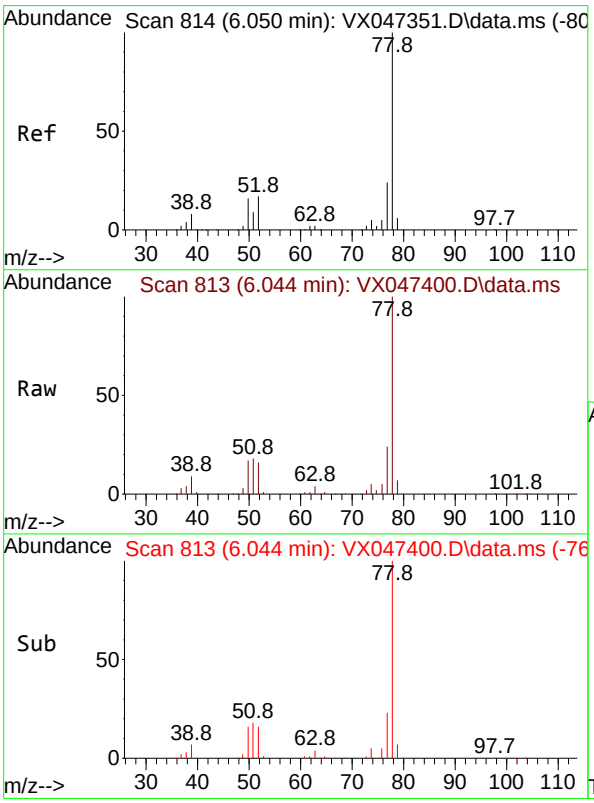
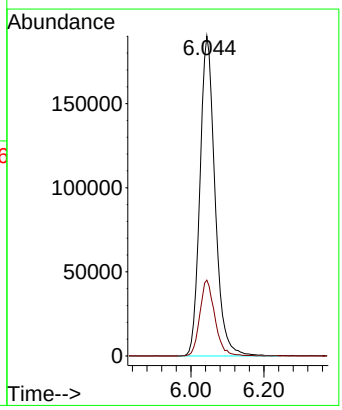
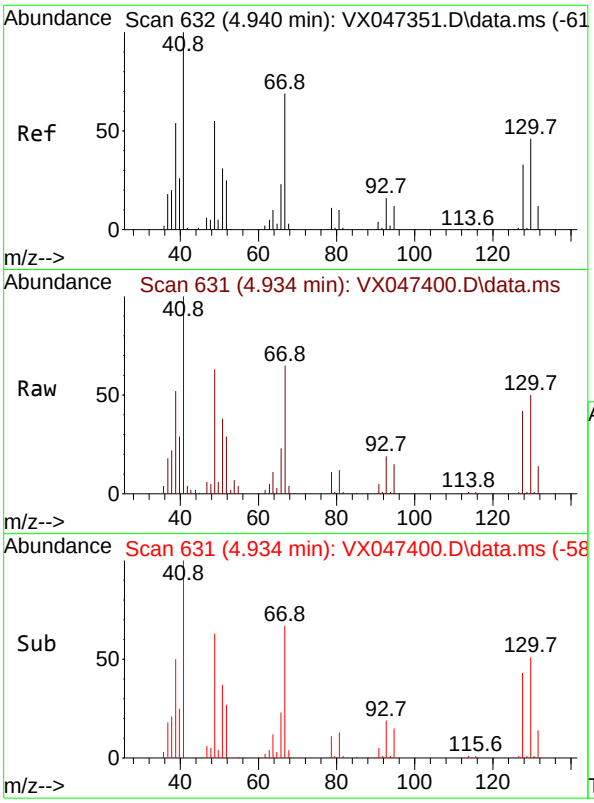


#40
Benzene
Concen: 48.701 ug/l
RT: 6.044 min Scan# 813
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 78 Resp: 545222

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4

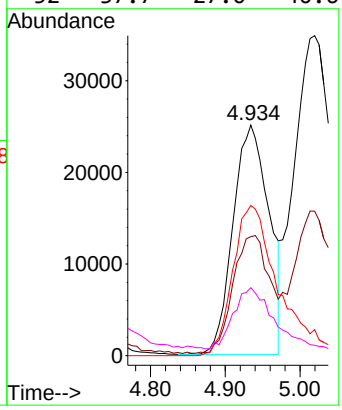




#41
Methacrylonitrile
Concen: 51.049 ug/l
RT: 4.934 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 41 Resp: 8358

Ion	Ratio	Lower	Upper
41	100		
39	52.3	45.4	68.2
67	85.7	64.0	96.0
52	37.7	27.0	40.6



Instrument :
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ClientSampleId :
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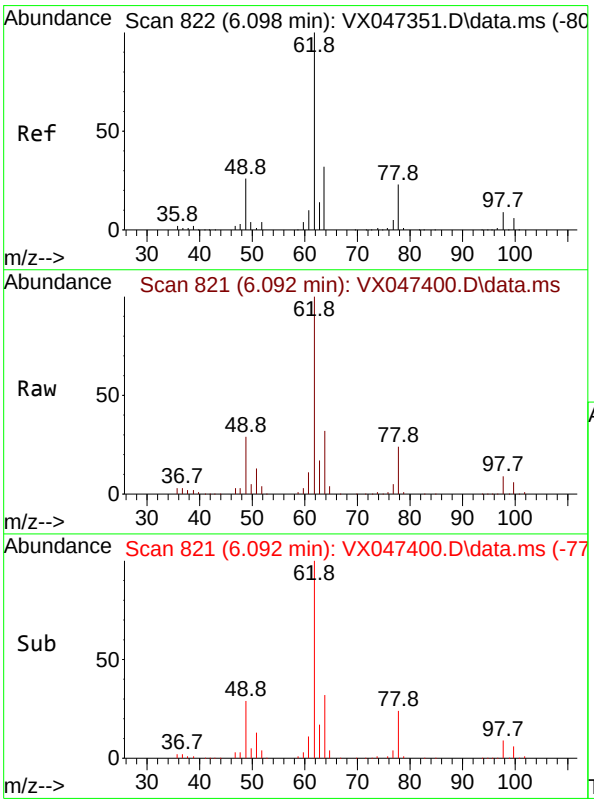
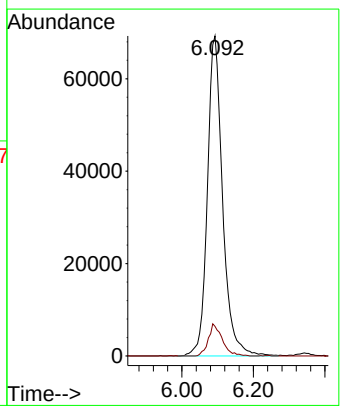
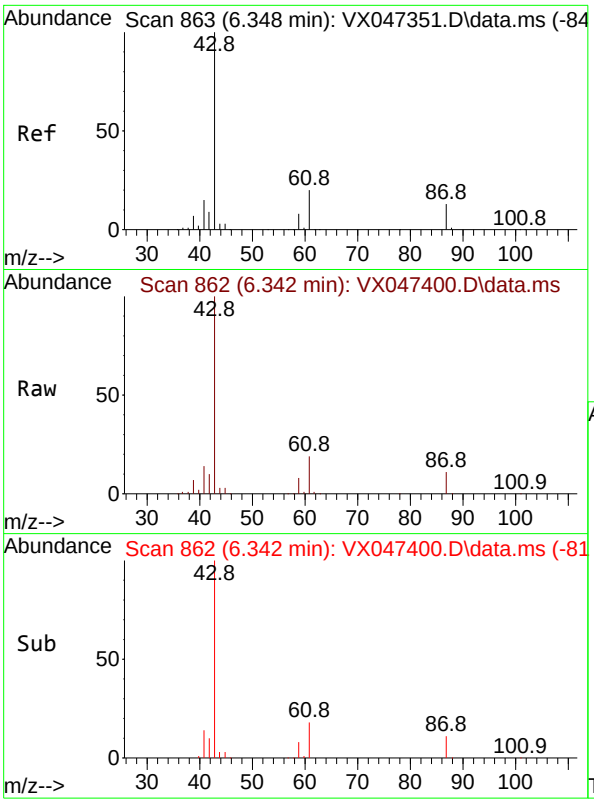


#42
1,2-Dichloroethane
Concen: 51.678 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 62 Resp: 204929

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.0

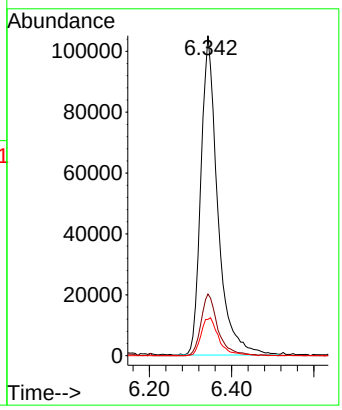




#43
Isopropyl Acetate
Concen: 53.497 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 29841

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.4	23.0
87	12.5	10.2	15.4



Instrument :
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ClientSampleId :
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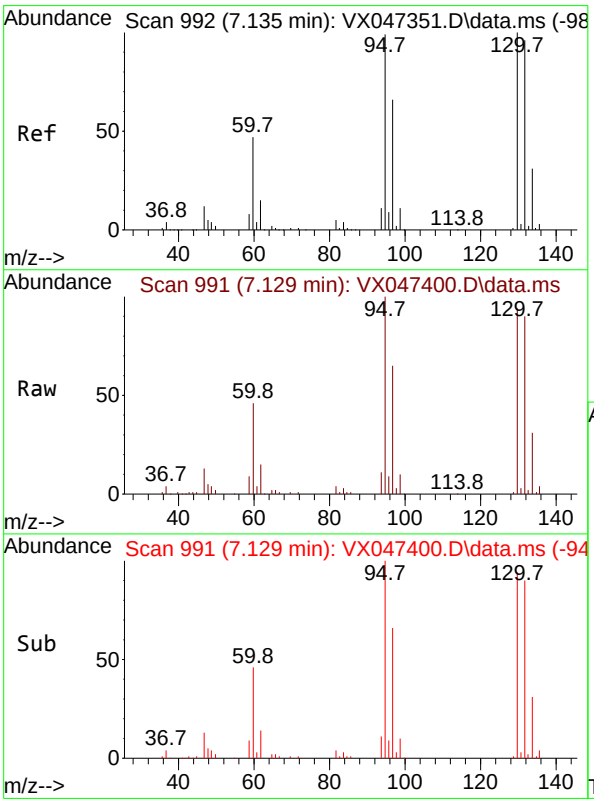
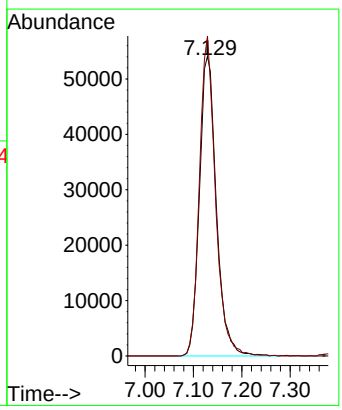
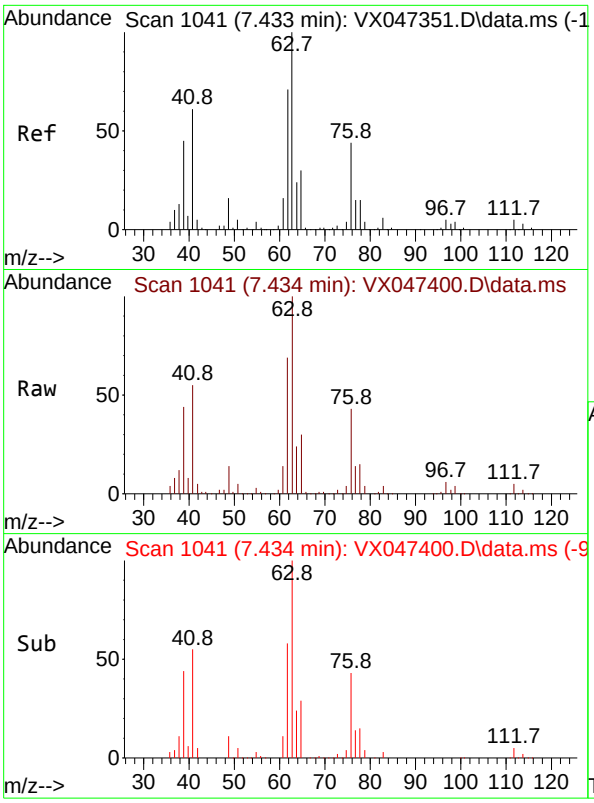


#44
Trichloroethene
Concen: 45.821 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:130 Resp: 131351

Ion	Ratio	Lower	Upper
130	100		
95	106.7	0.0	198.6

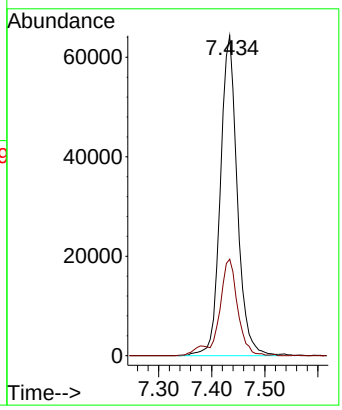




#45
1,2-Dichloropropane
Concen: 50.806 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 63 Resp: 14249

Ion	Ratio	Lower	Upper
63	100		
65	30.1	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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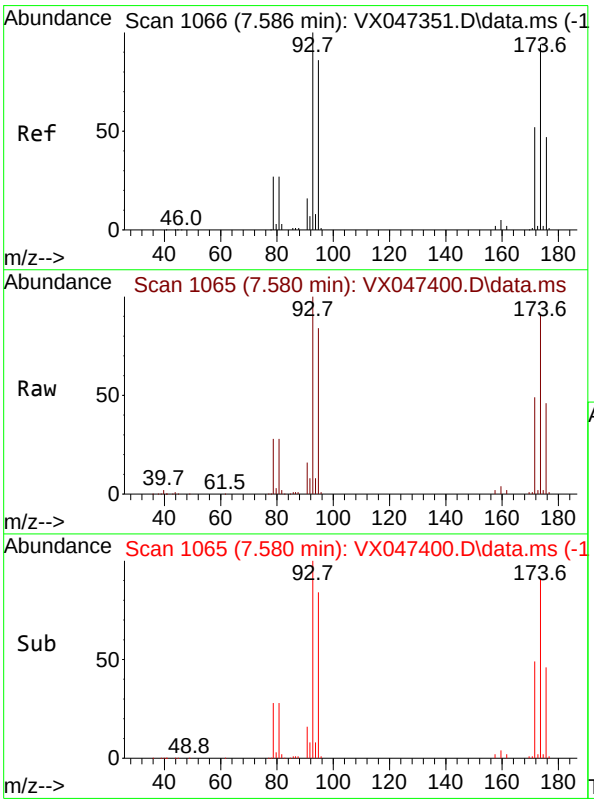
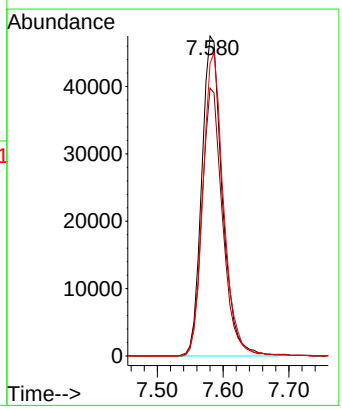
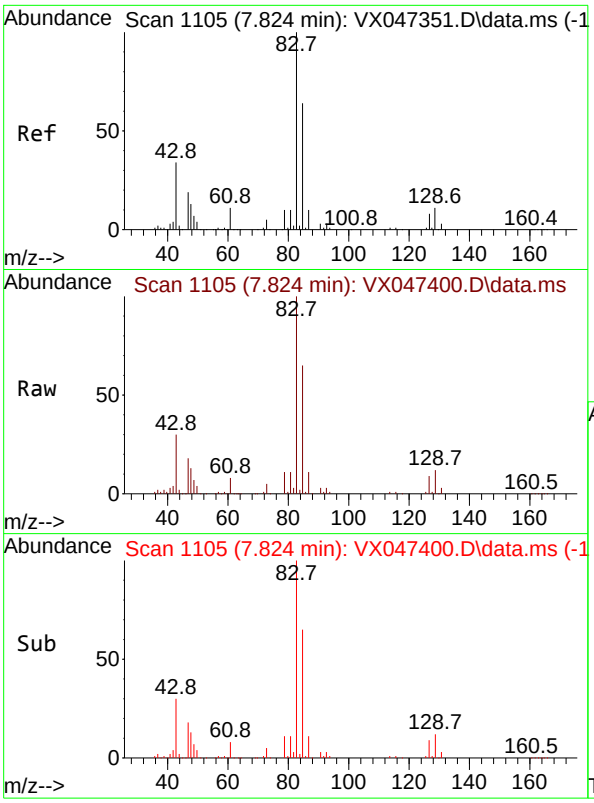


#46
Dibromomethane
Concen: 50.893 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 93 Resp: 103627

Ion	Ratio	Lower	Upper
93	100		
95	84.0	68.0	102.0
174	94.1	75.8	113.6

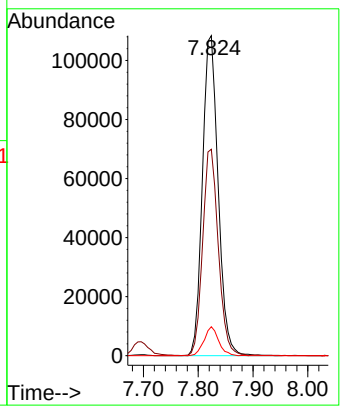




#47
Bromodichloromethane
Concen: 50.965 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 83 Resp: 21513

Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.0	76.6
127	9.1	7.0	10.4



Instrument :
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ClientSampleId :
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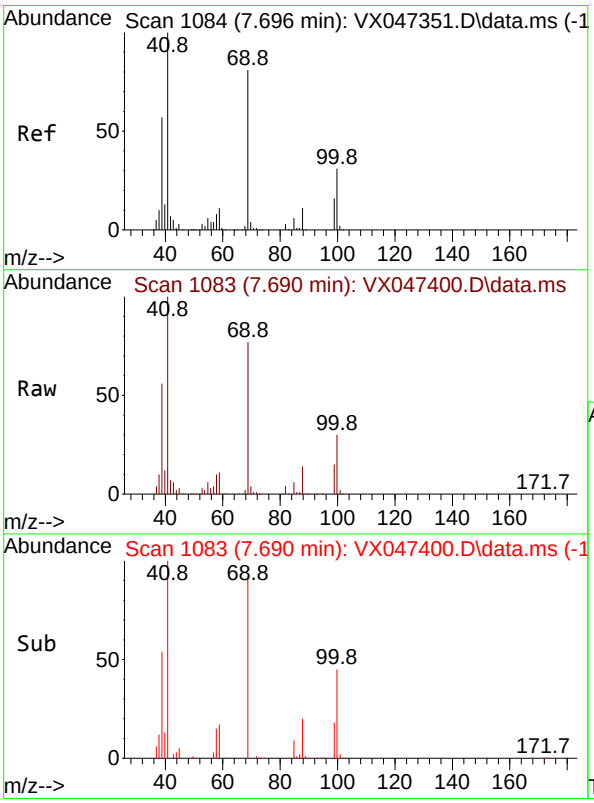
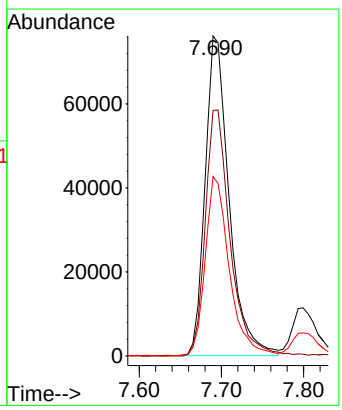
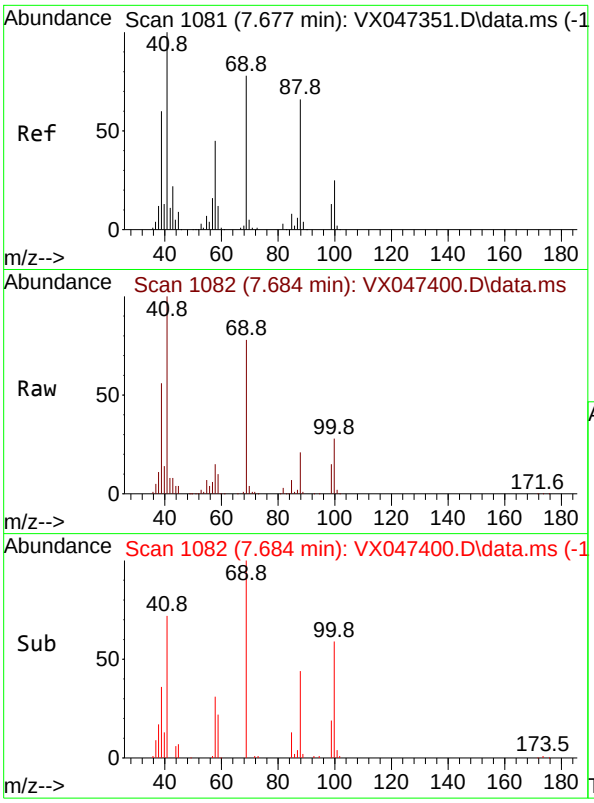


#48
Methyl methacrylate
Concen: 53.246 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 41 Resp: 154171

Ion	Ratio	Lower	Upper
41	100		
69	79.7	65.0	97.4
39	56.6	45.7	68.5





#49
1,4-Dioxane
Concen: 1160.527 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 88 Resp: 3266

Ion	Ratio	Lower	Upper
88	100		
43	39.8	32.4	48.6
58	75.4	56.9	85.3

Instrument :
MSVOA_X
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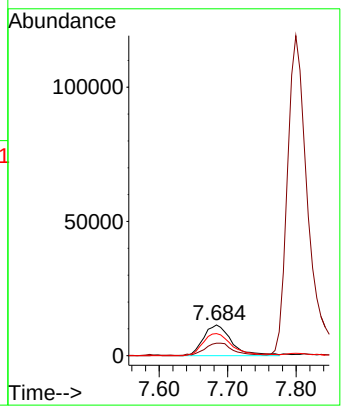
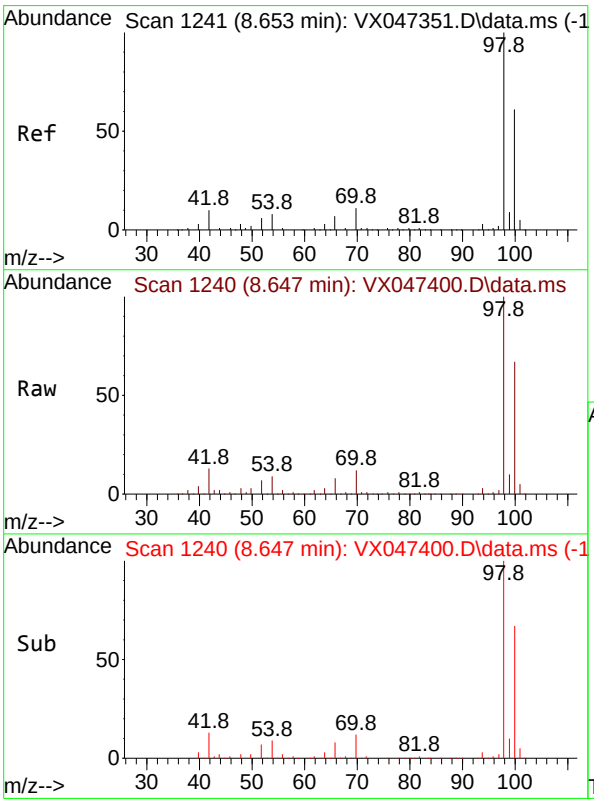
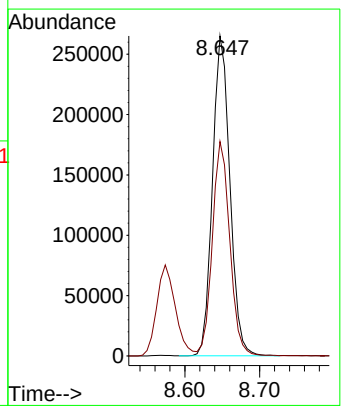


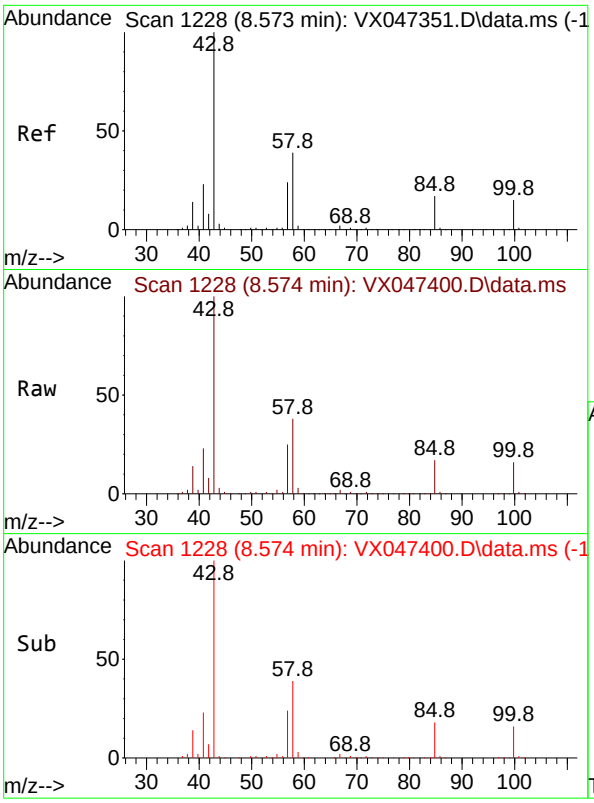


#50
Toluene-d8
Concen: 50.584 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 98 Resp: 428388

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.9	80.9

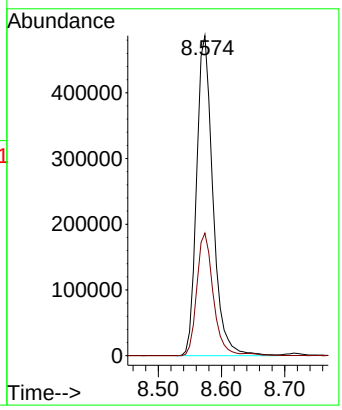




#51
4-Methyl-2-Pentanone
Concen: 272.635 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 87517

Ion	Ratio	Lower	Upper
43	100		
58	38.4	31.2	46.8



Instrument :
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ClientSampleId :
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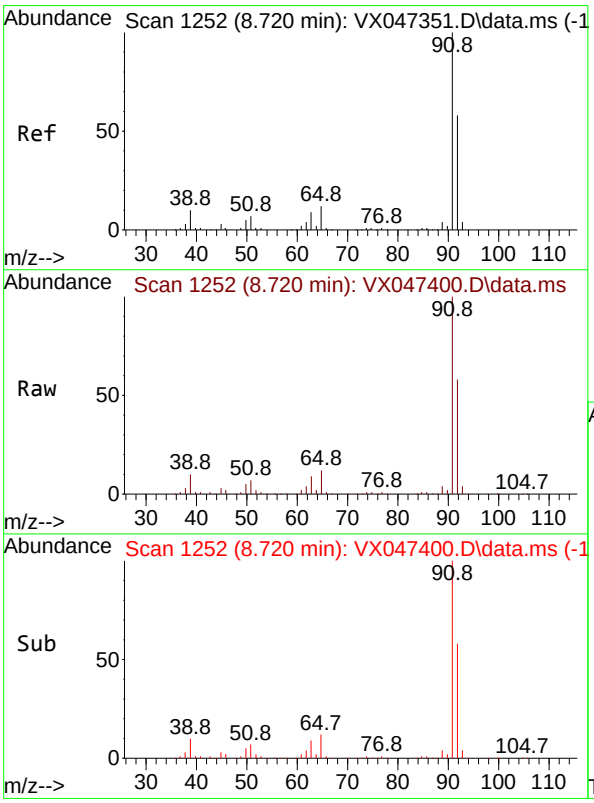
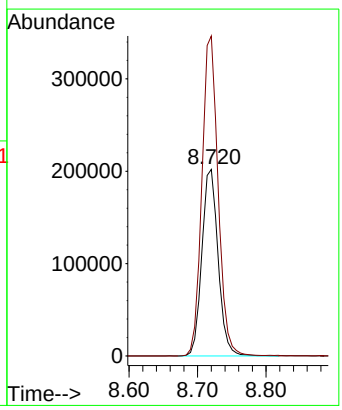
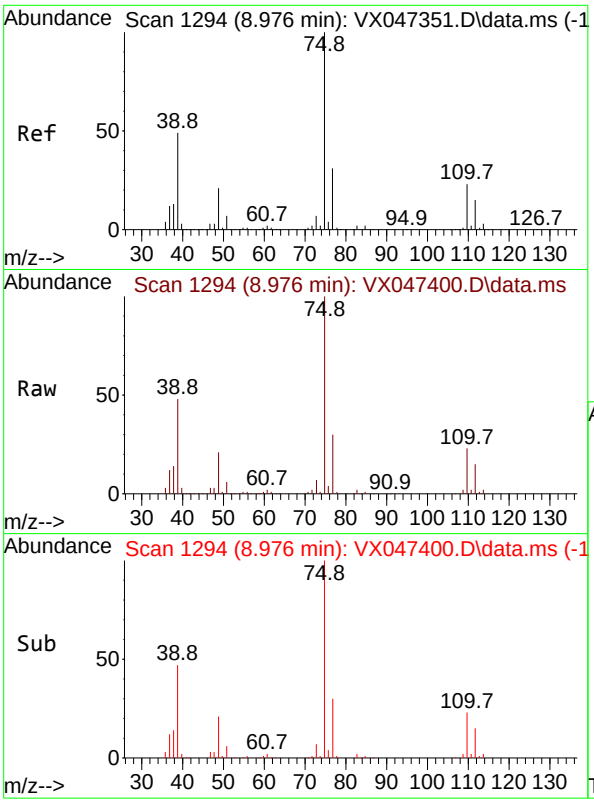


#52
Toluene
Concen: 48.228 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 92 Resp: 333637

Ion	Ratio	Lower	Upper
92	100		
91	171.1	136.3	204.5

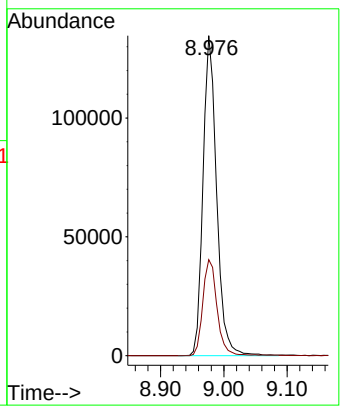




#53
t-1,3-Dichloropropene
Concen: 54.796 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 75 Resp: 20187

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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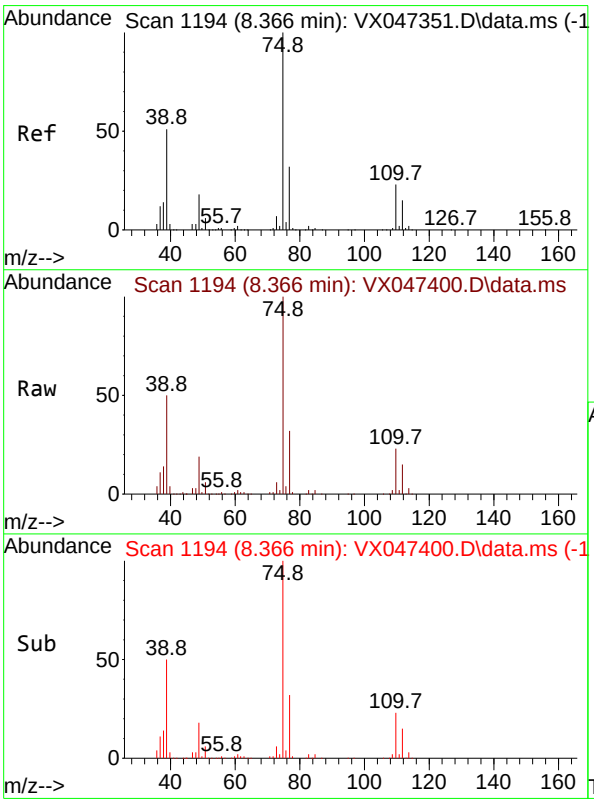
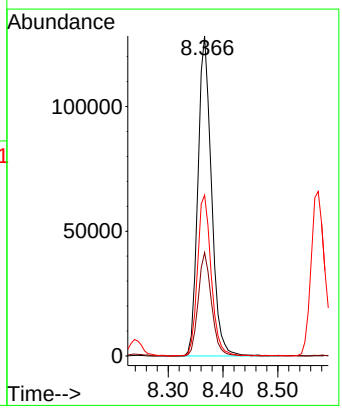
Supervised By :Mahesh Dadoda 08/20/2025

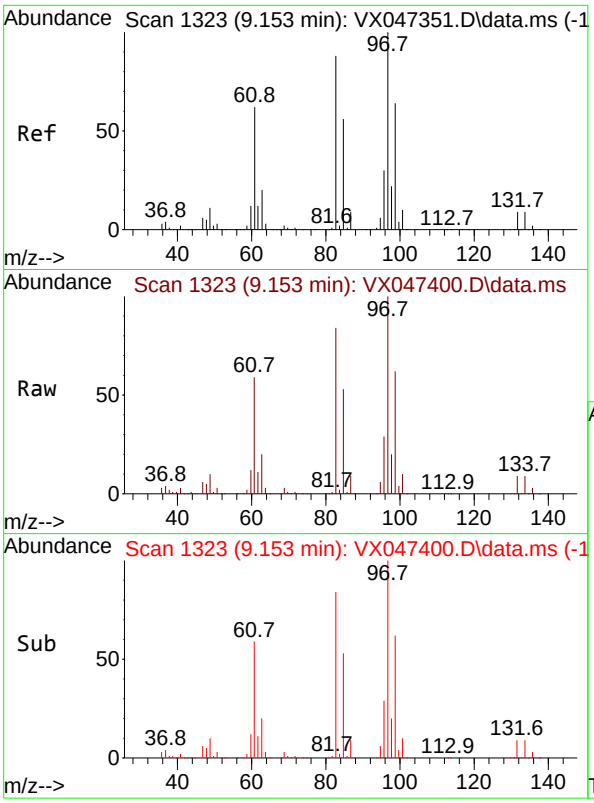


#54
cis-1,3-Dichloropropene
Concen: 52.876 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 75 Resp: 220487

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.6	38.4
39	50.1	40.9	61.3

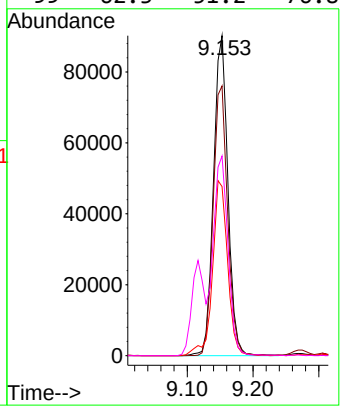




#55
1,1,2-Trichloroethane
Concen: 52.264 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 97 Resp: 13727

Ion	Ratio	Lower	Upper
97	100		
83	84.3	70.6	106.0
85	52.8	44.7	67.1
99	62.3	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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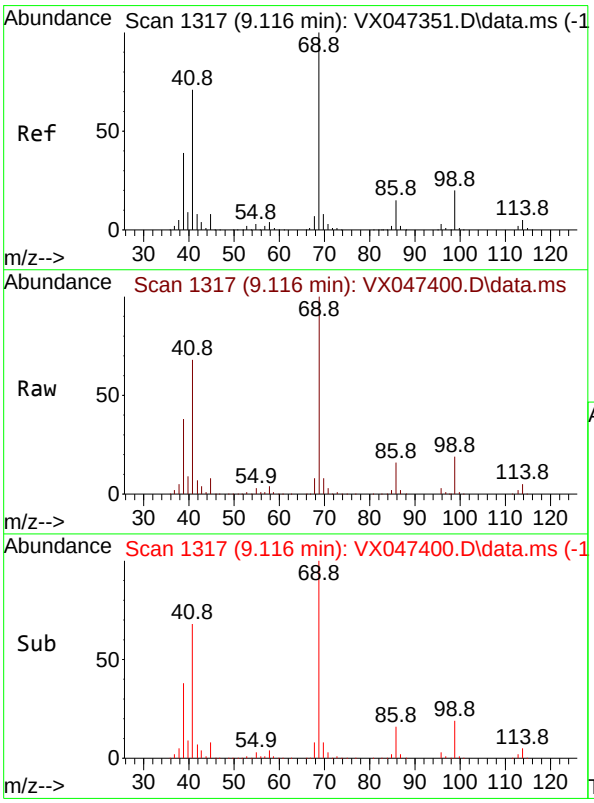
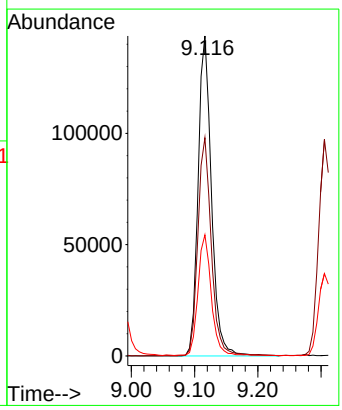
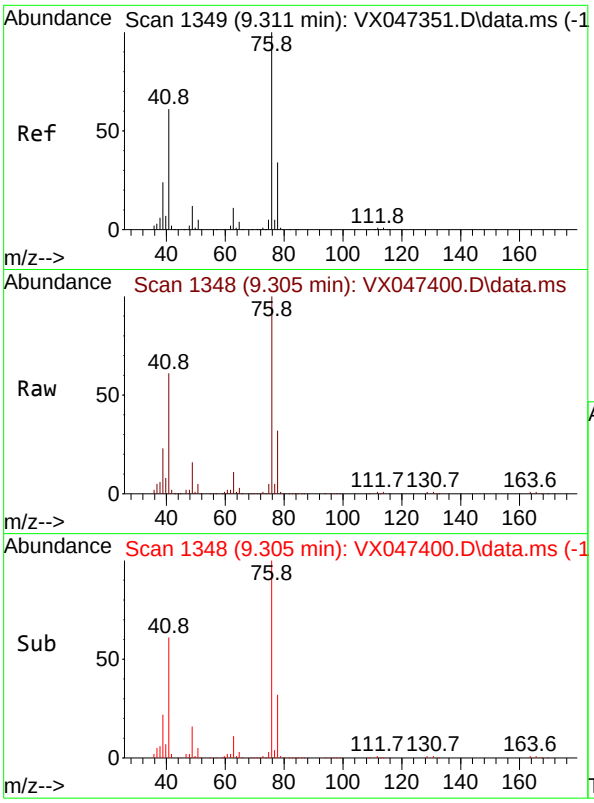


#56
Ethyl methacrylate
Concen: 54.700 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 69 Resp: 211825

Ion	Ratio	Lower	Upper
69	100		
41	68.4	55.3	82.9
39	37.8	30.2	45.2

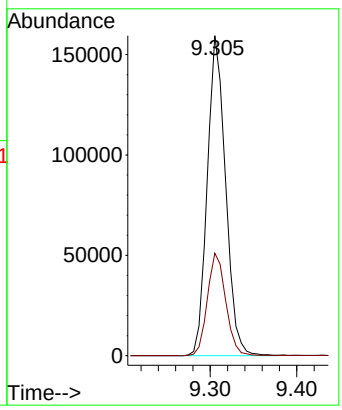




#57
1,3-Dichloropropane
Concen: 52.271 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 76 Resp: 23394

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.2	39.2



Instrument :
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ClientSampleId :
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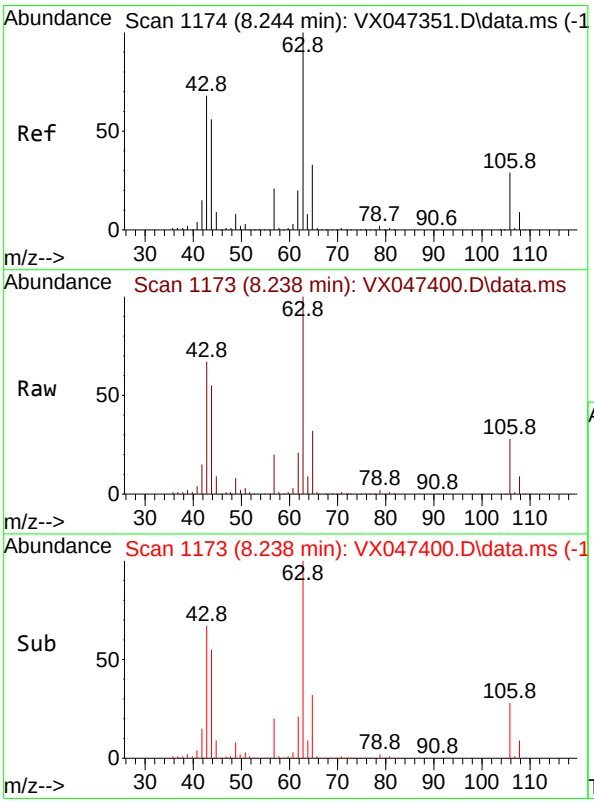
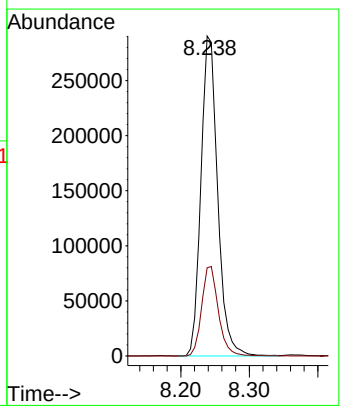
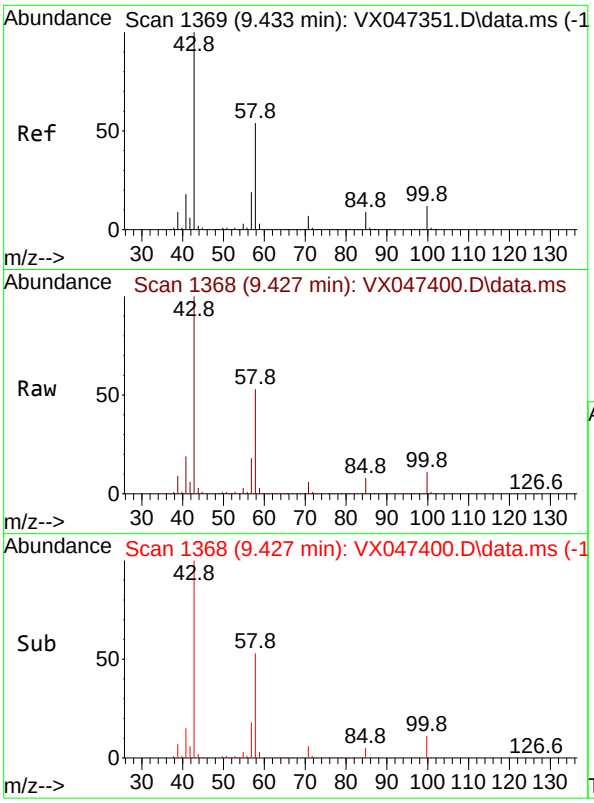


#58
2-Chloroethyl Vinyl ether
Concen: 266.315 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 63 Resp: 493500

Ion	Ratio	Lower	Upper
63	100		
106	27.9	22.8	34.2





#59
2-Hexanone
Concen: 270.676 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 60102

Ion	Ratio	Lower	Upper
43	100		
58	53.6	26.9	80.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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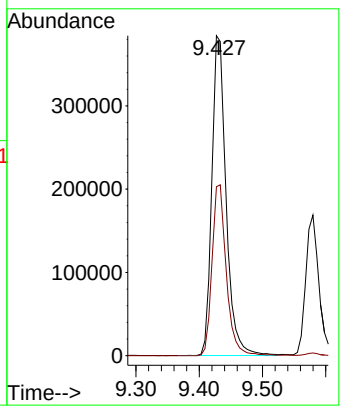
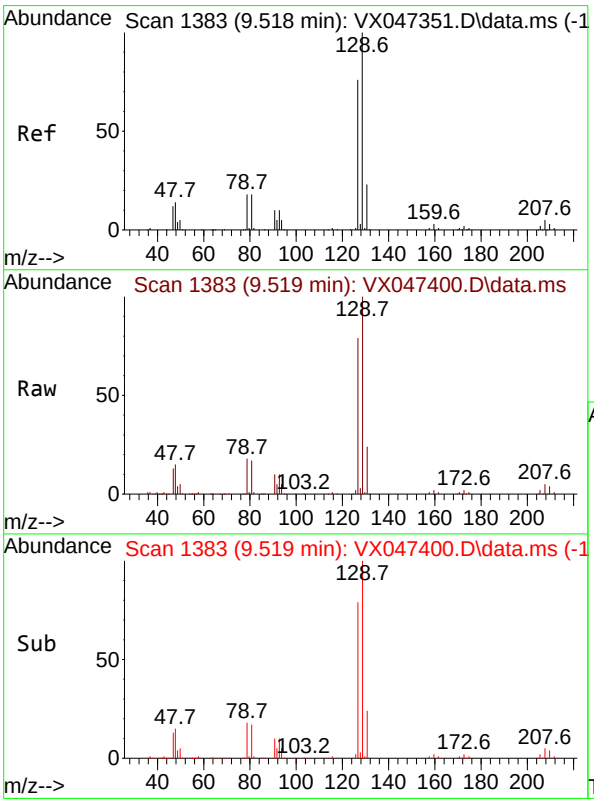
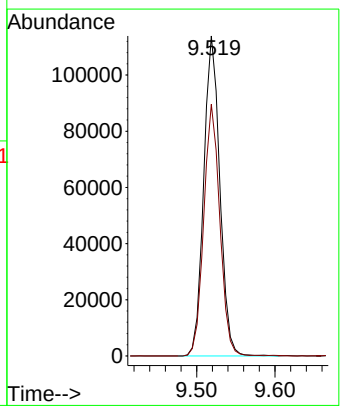


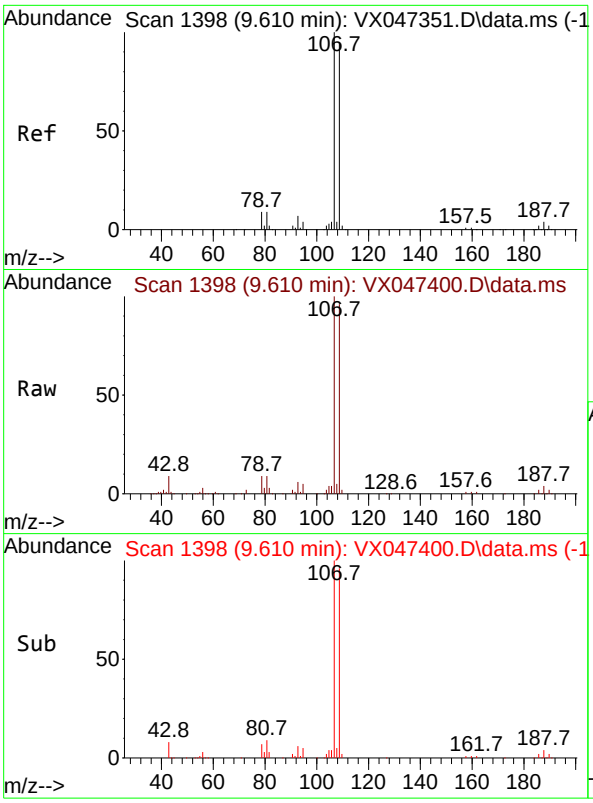


#60
Dibromochloromethane
Concen: 51.968 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:129 Resp: 162215

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.9	116.6

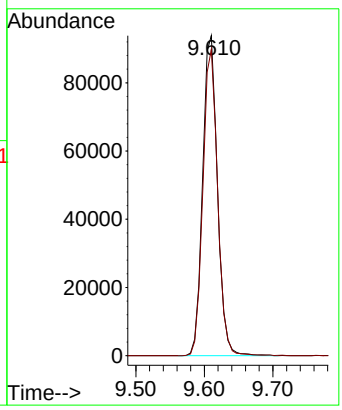




#61
1,2-Dibromoethane
Concen: 52.124 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:107 Resp: 14117

Ion	Ratio	Lower	Upper
107	100		
109	95.2	76.2	114.2



Instrument :
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ClientSampleId :
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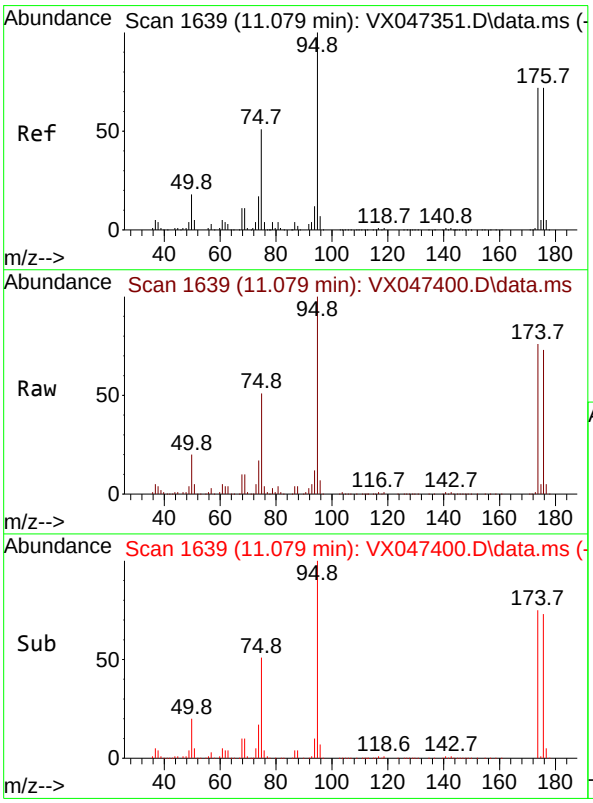
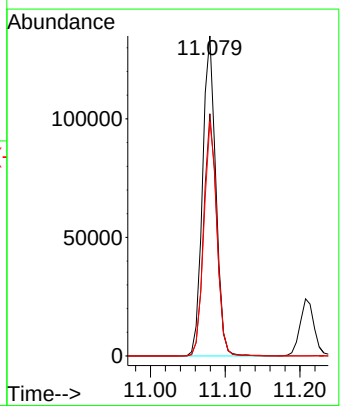
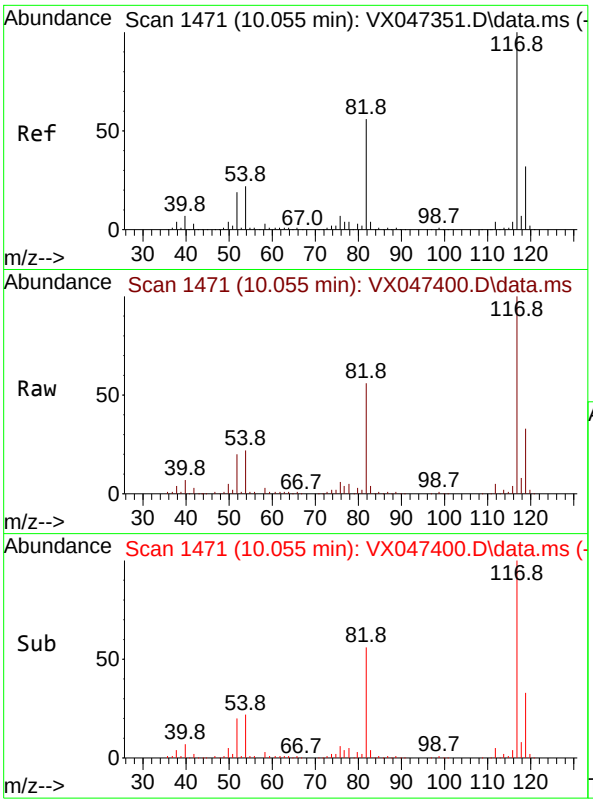


#62
4-Bromofluorobenzene
Concen: 53.183 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 95 Resp: 166205

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	148.0
176	72.4	0.0	145.4

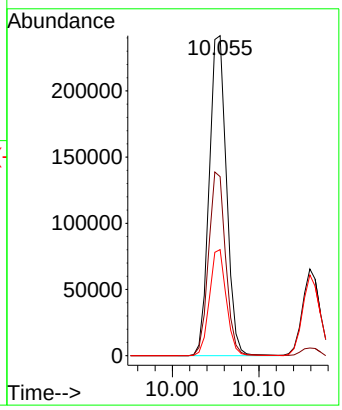




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:117 Resp: 33405

Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.0	67.4
119	33.2	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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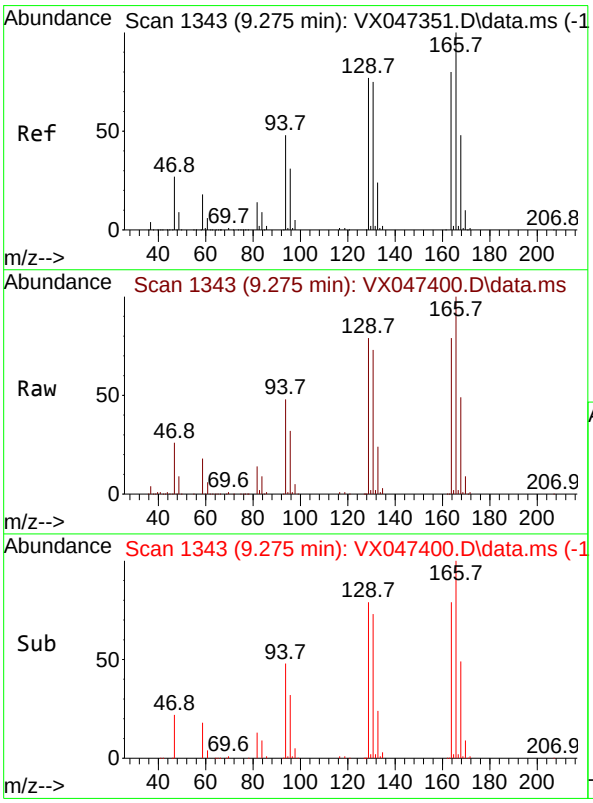
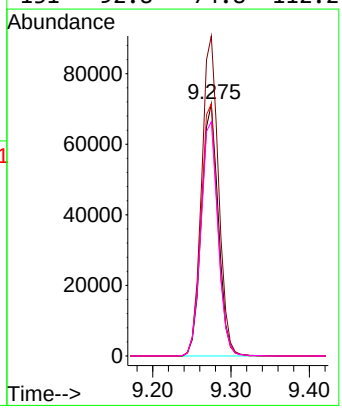
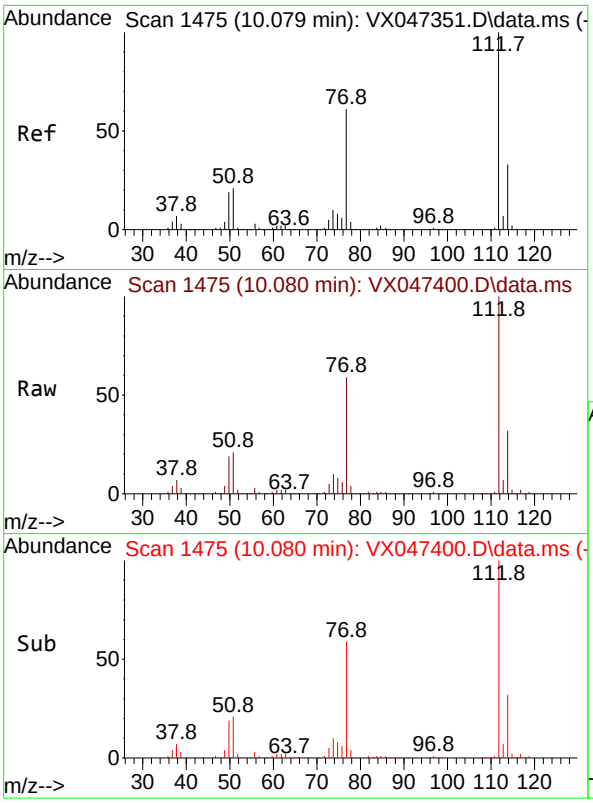


#64
Tetrachloroethene
Concen: 44.081 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:164 Resp: 106511

Ion	Ratio	Lower	Upper
164	100		
166	126.9	100.3	150.5
129	99.9	77.7	116.5
131	92.8	74.8	112.2

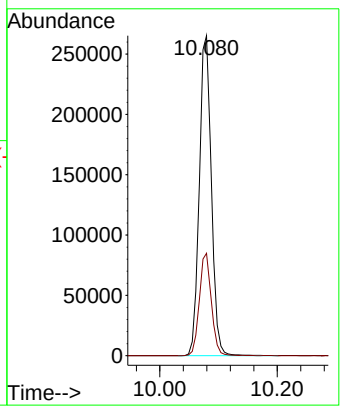




#65
Chlorobenzene
Concen: 47.476 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:112 Resp: 37688

Ion	Ratio	Lower	Upper
112	100		
114	32.0	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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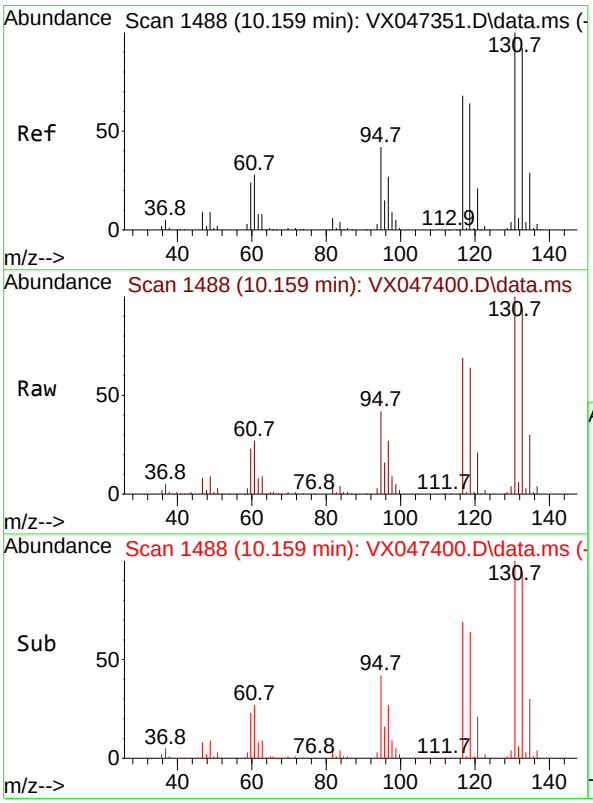
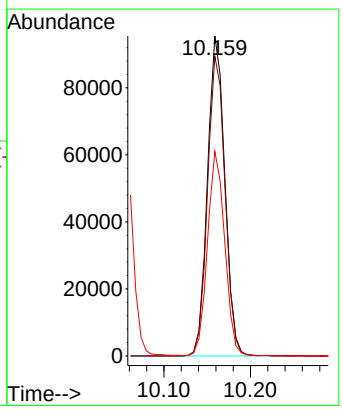
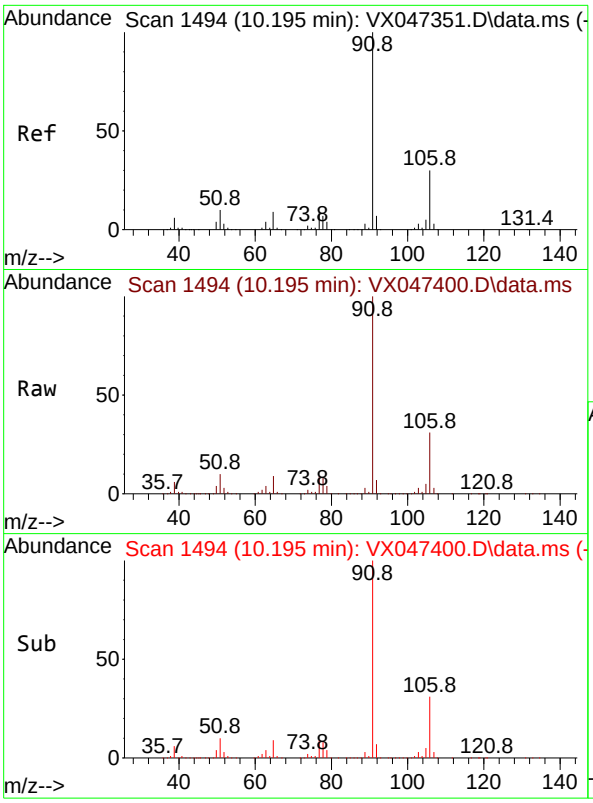


#66
1,1,1,2-Tetrachloroethane
Concen: 49.556 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:131 Resp: 132983

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.6	142.9
119	63.7	32.3	96.8

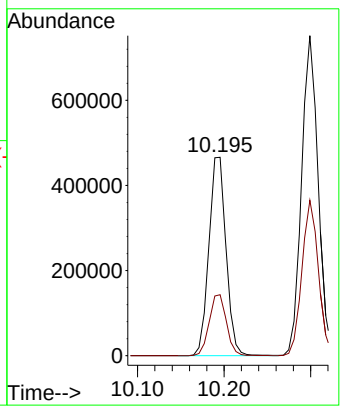




#67
Ethyl Benzene
Concen: 47.006 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 91 Resp: 64224

Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.4	36.6



Instrument :
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ClientSampleId :
VSTDCCC050

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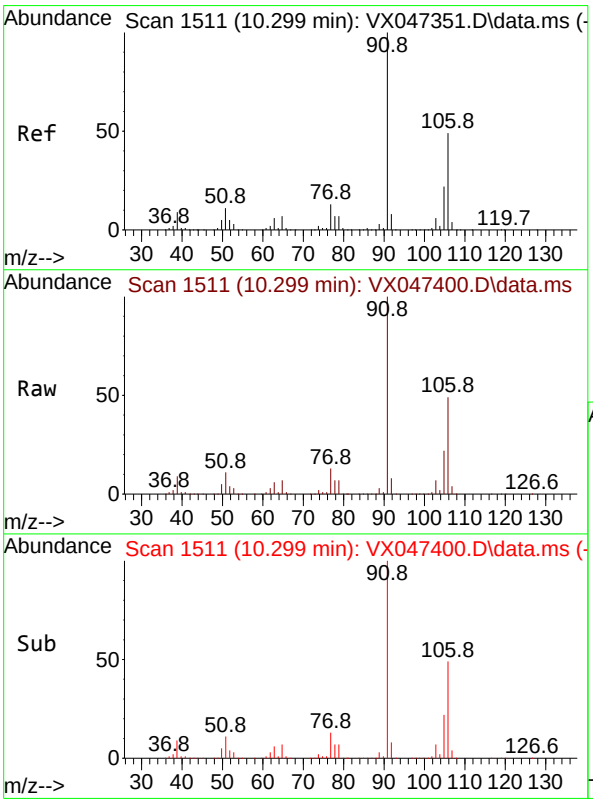
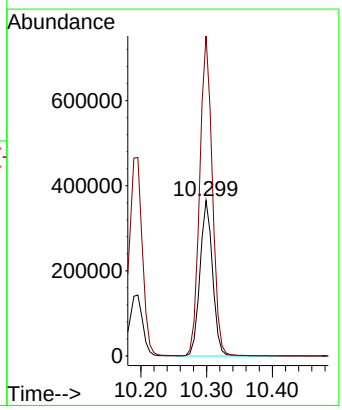
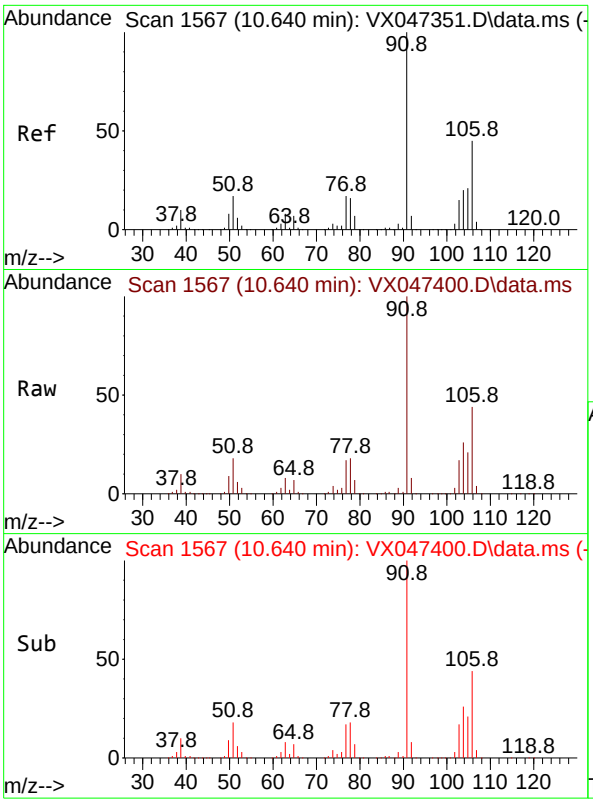


#68
m/p-Xylenes
Concen: 95.157 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:106 Resp: 484787

Ion	Ratio	Lower	Upper
106	100		
91	206.5	164.7	247.1





#69
o-Xylene
Concen: 47.570 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:106 Resp: 23322

Ion	Ratio	Lower	Upper
106	100		
91	223.5	110.6	331.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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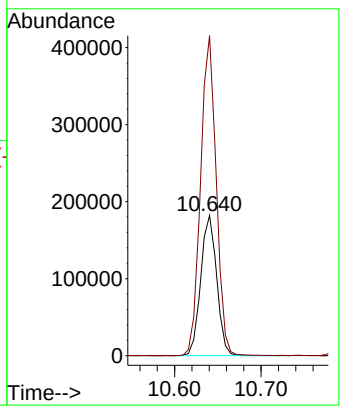
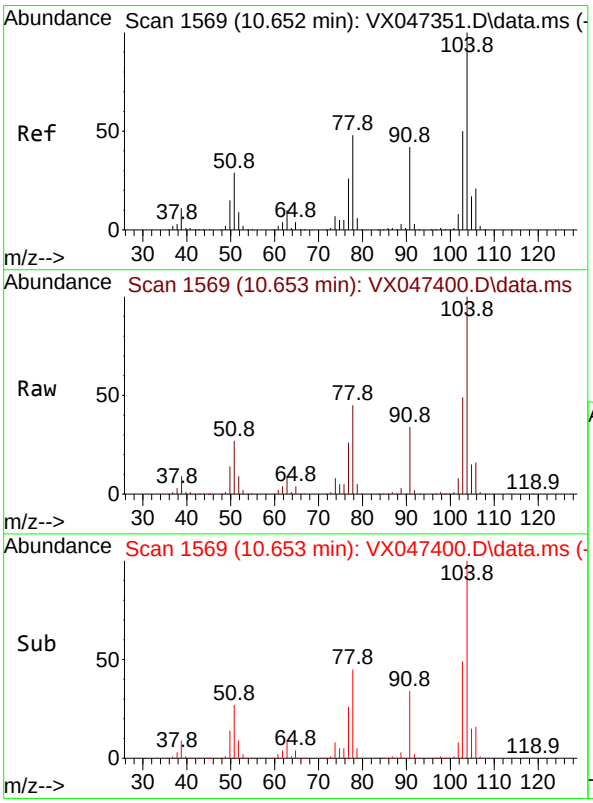
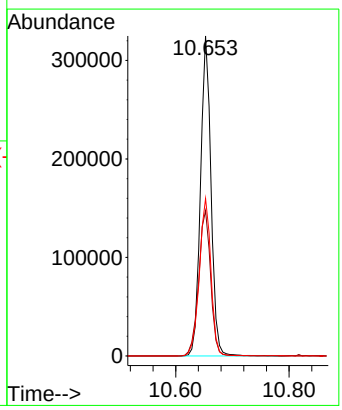


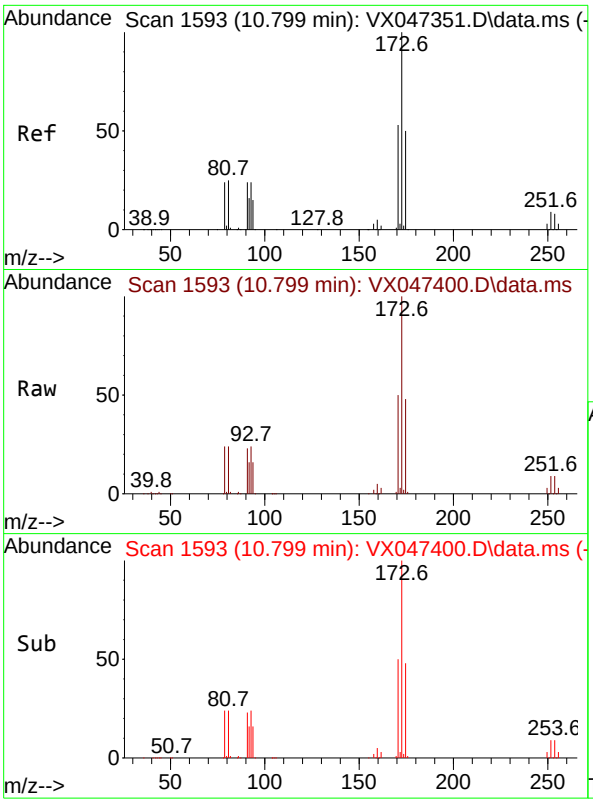


#70
Styrene
Concen: 50.426 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:104 Resp: 417727

Ion	Ratio	Lower	Upper
104	100		
78	52.0	41.8	62.8
103	54.4	43.6	65.4

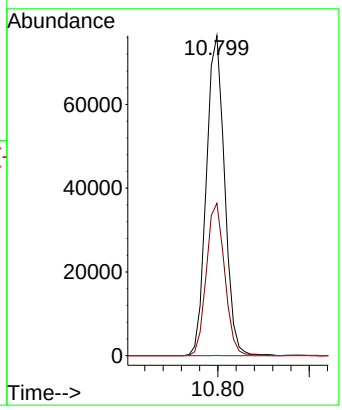




#71
Bromoform
Concen: 52.336 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:173 Resp: 10550

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.4	73.4
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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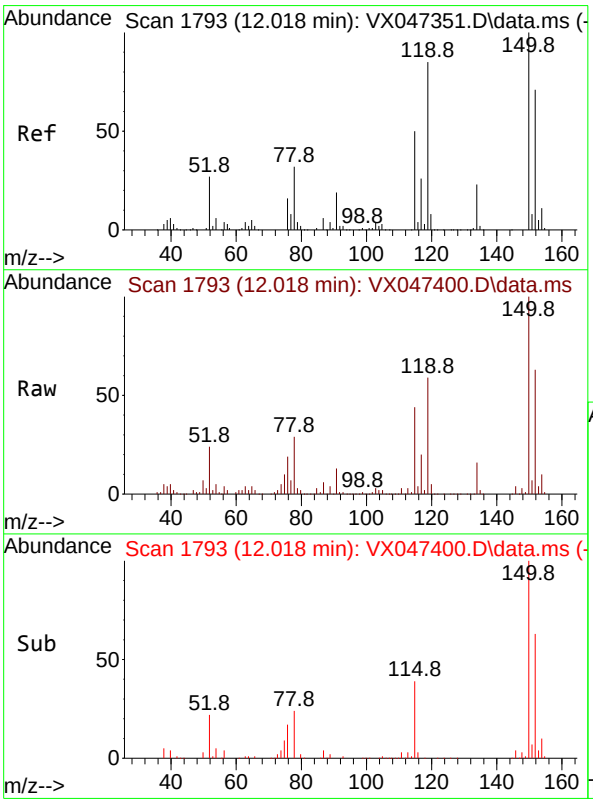
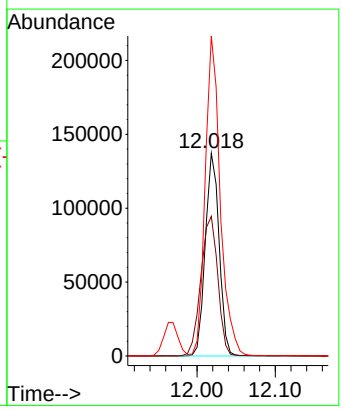
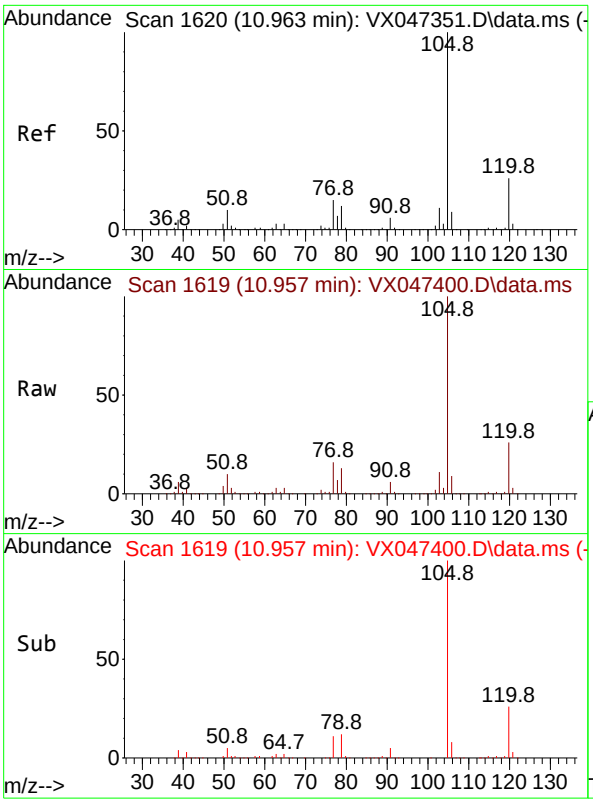


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:152 Resp: 167955

Ion	Ratio	Lower	Upper
152	100		
115	84.5	44.6	133.8
150	171.4	0.0	349.8

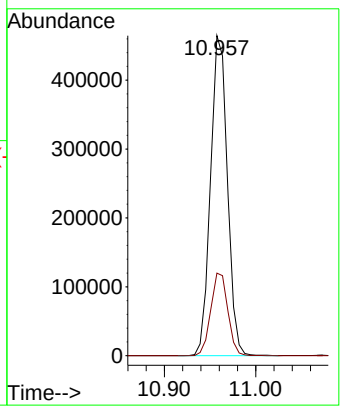




#73
Isopropylbenzene
Concen: 45.232 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:105 Resp: 59450

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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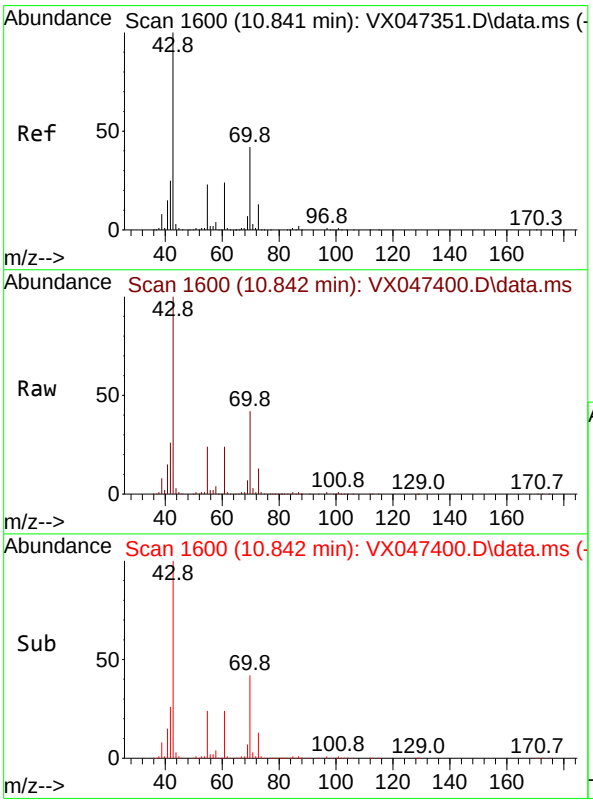
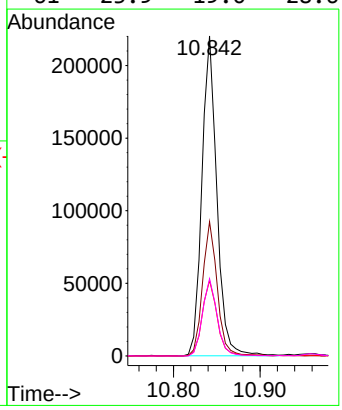
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

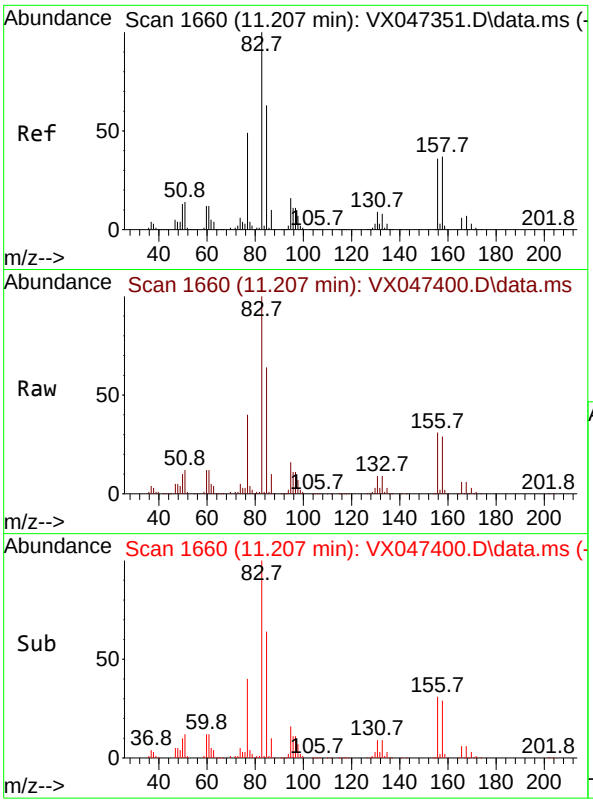


#74
N-amyl acetate
Concen: 52.861 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 263829

Ion	Ratio	Lower	Upper
43	100		
70	41.4	33.1	49.7
55	23.7	19.0	28.6
61	23.9	19.0	28.6

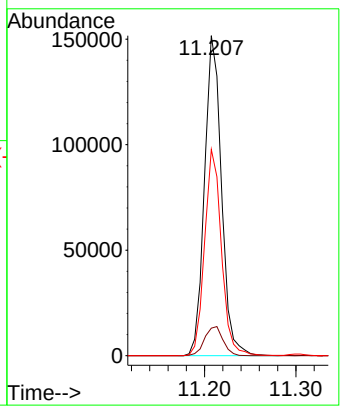




#75
1,1,2,2-Tetrachloroethane
Concen: 50.522 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 83 Resp: 19496

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	15.0
85	63.9	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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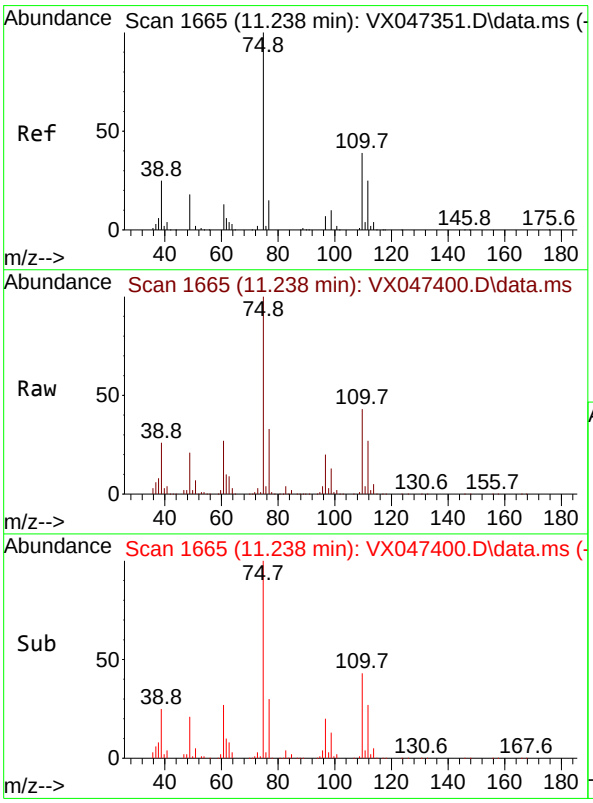
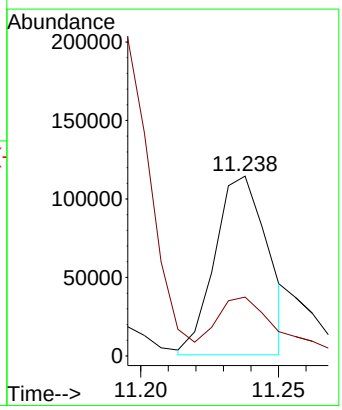
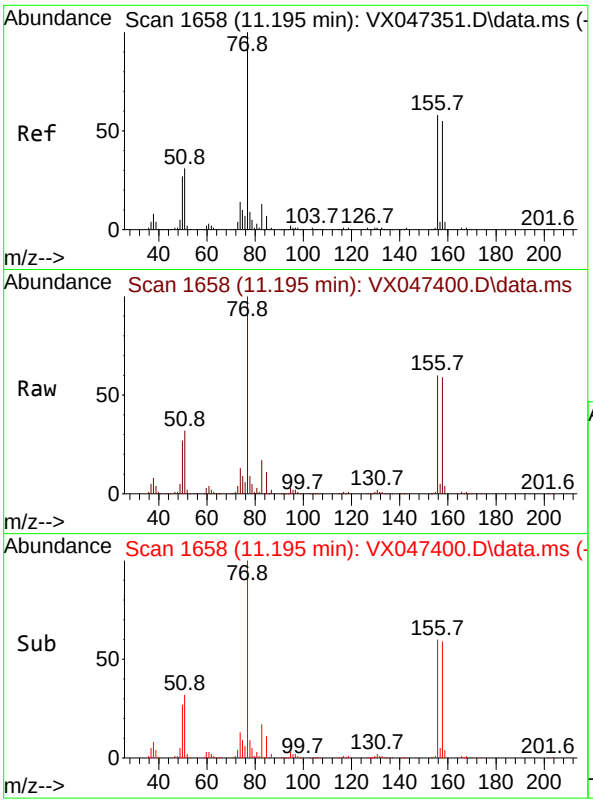


#76
1,2,3-Trichloropropane
Concen: 49.366 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 75 Resp: 152071

Ion	Ratio	Lower	Upper
75	100		
77	39.4	19.4	58.2

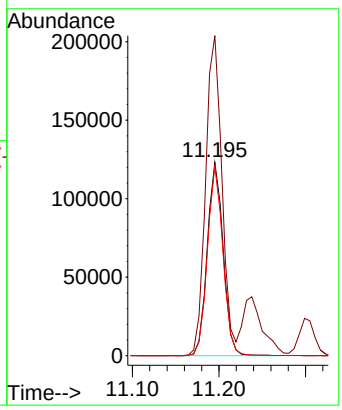




#77
Bromobenzene
Concen: 48.962 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:156 Resp: 15714

Ion	Ratio	Lower	Upper
156	100		
77	169.6	86.3	258.9
158	95.7	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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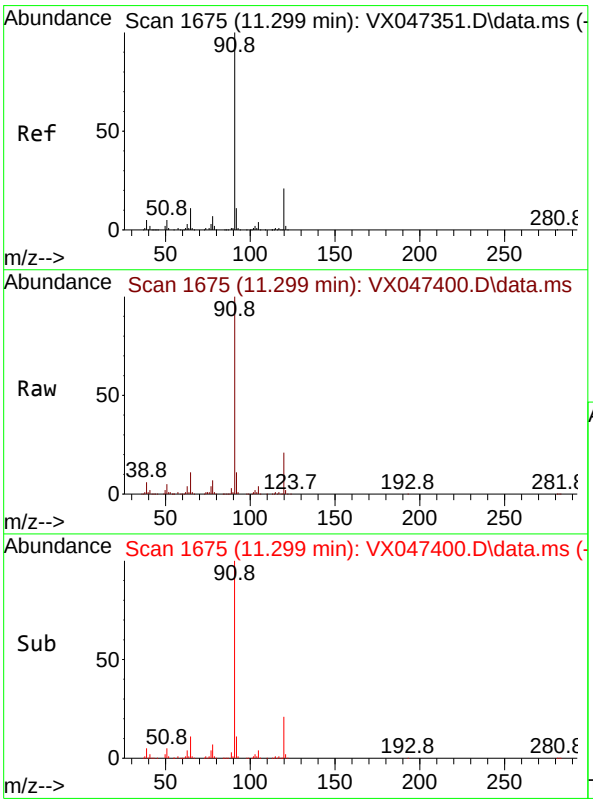
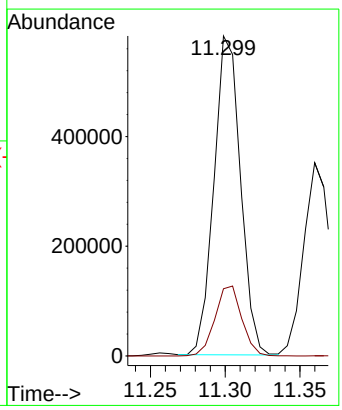
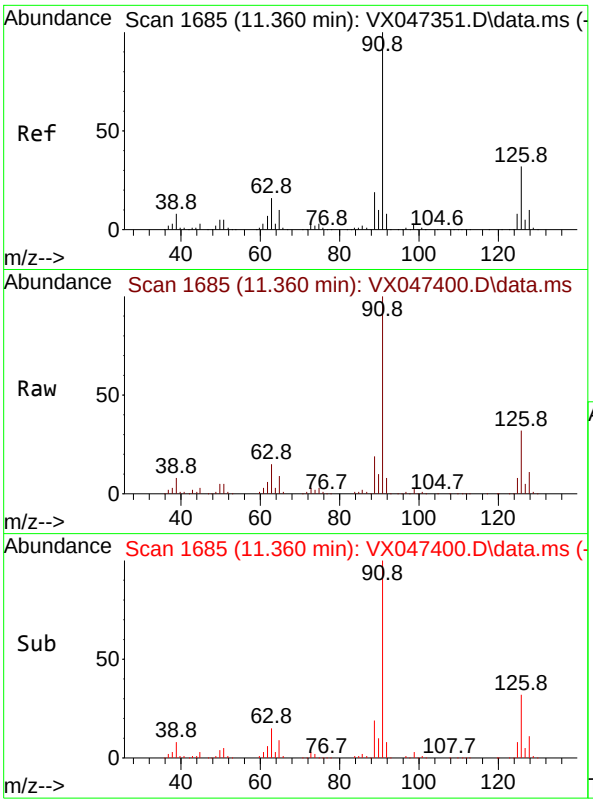


#78
n-propylbenzene
Concen: 45.715 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 91 Resp: 717602

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0

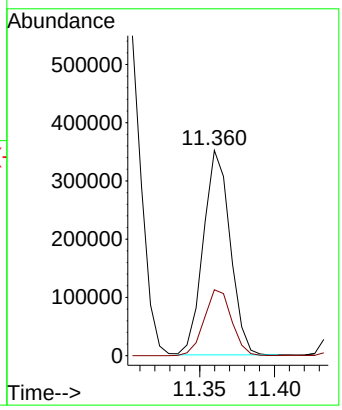




#79
2-Chlorotoluene
Concen: 46.220 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 91 Resp: 43858

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.7	50.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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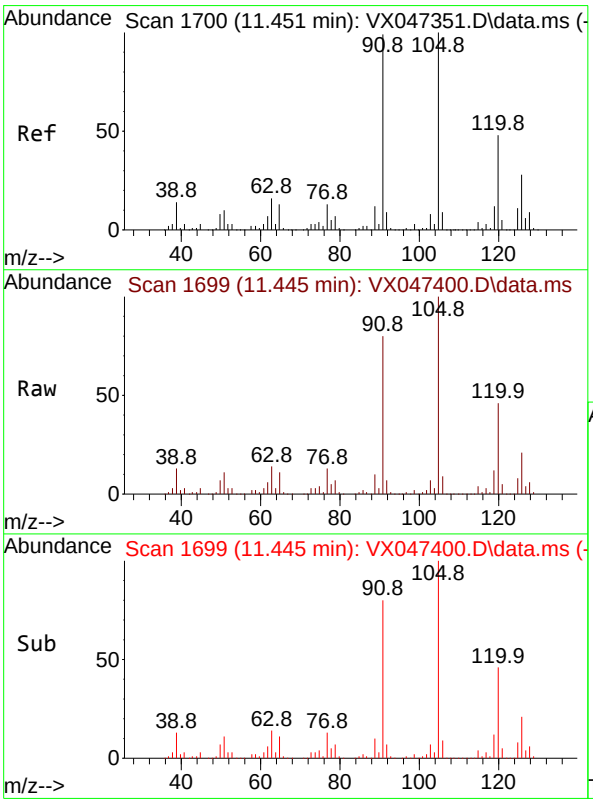
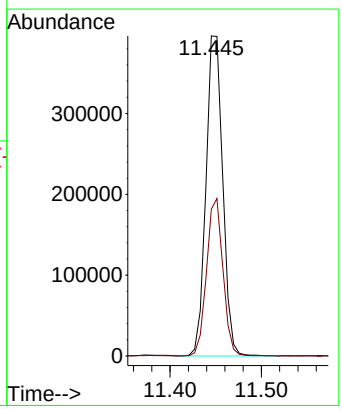
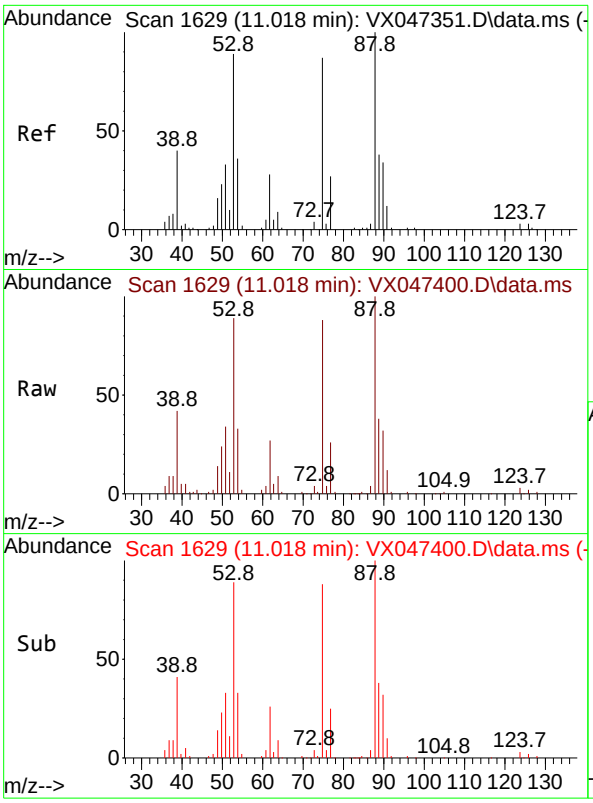


#80
1,3,5-Trimethylbenzene
Concen: 46.784 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:105 Resp: 505924

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.9	71.7

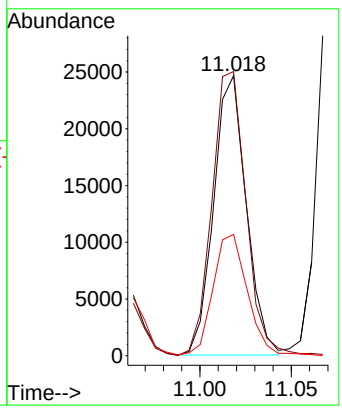




#81
trans-1,4-Dichloro-2-butene
Concen: 44.250 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 75 Resp: 3059

Ion	Ratio	Lower	Upper
75	100		
53	107.2	85.2	127.8
89	45.9	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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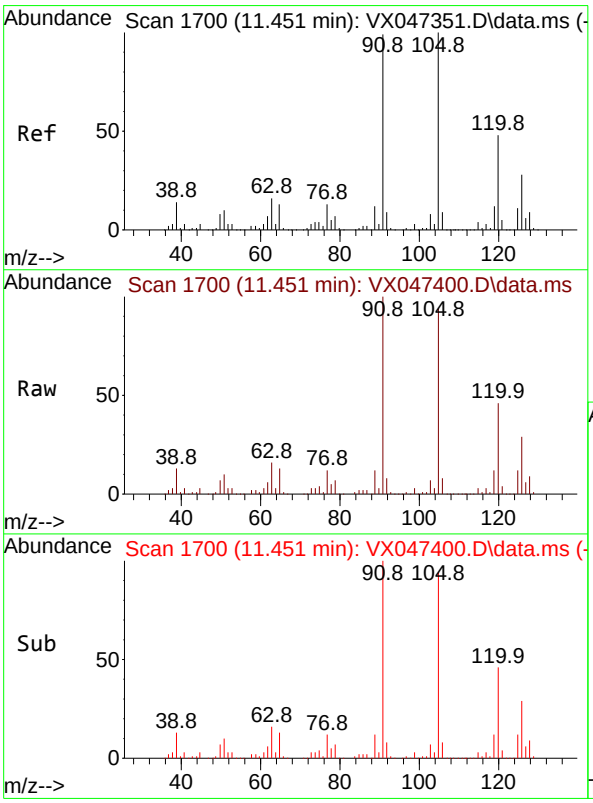
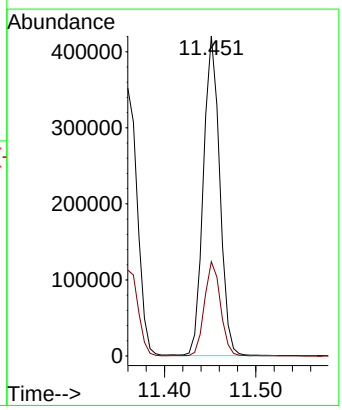
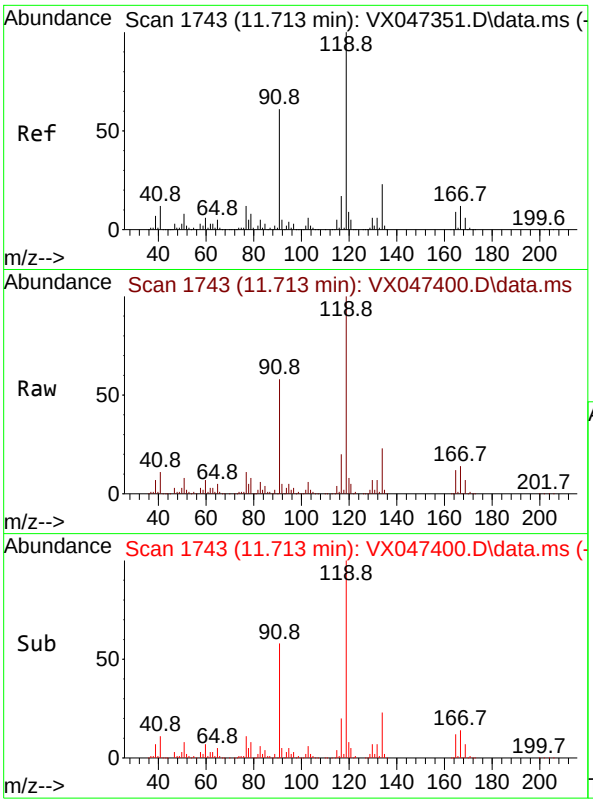


#82
4-Chlorotoluene
Concen: 46.620 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 91 Resp: 521477

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.4	43.0

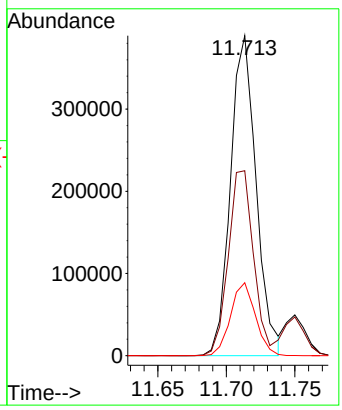




#83
tert-Butylbenzene
Concen: 47.081 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:119 Resp: 50795

Ion	Ratio	Lower	Upper
119	100		
91	56.8	29.1	87.4
134	22.2	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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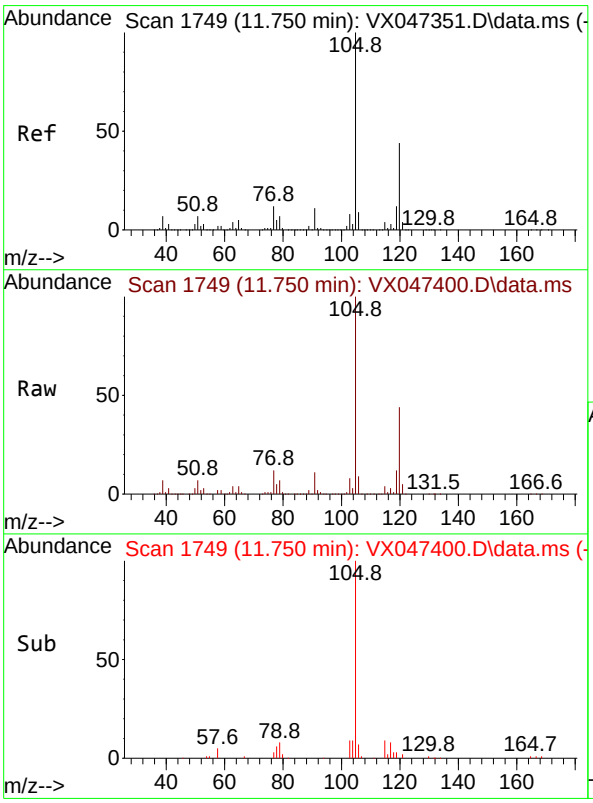
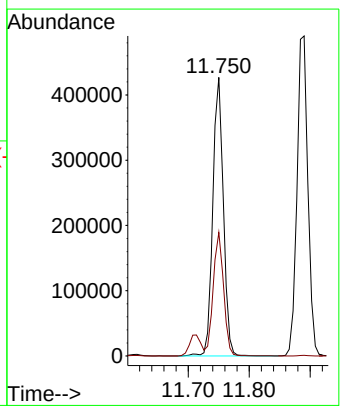
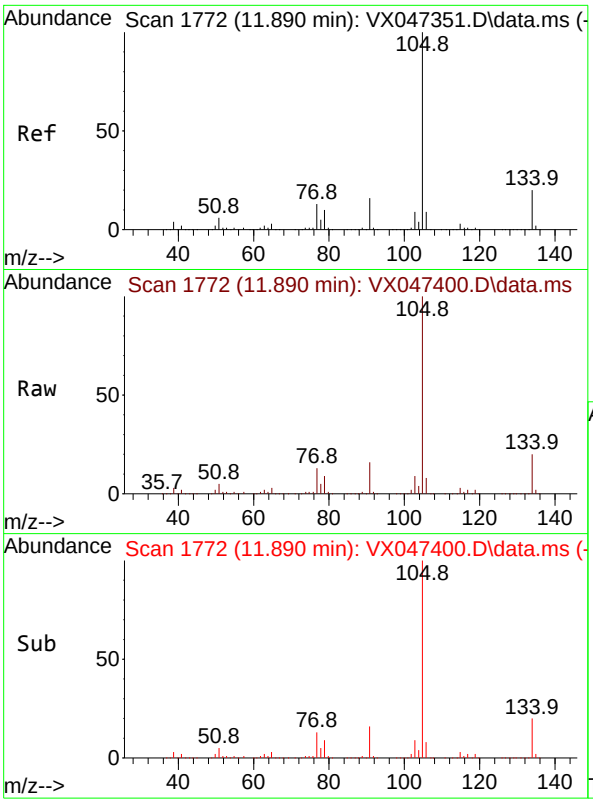


#84
1,2,4-Trimethylbenzene
Concen: 47.529 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:105 Resp: 513998

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.9	65.7

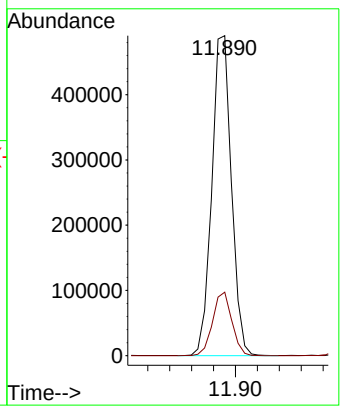




#85
sec-Butylbenzene
Concen: 45.552 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:105 Resp: 60914

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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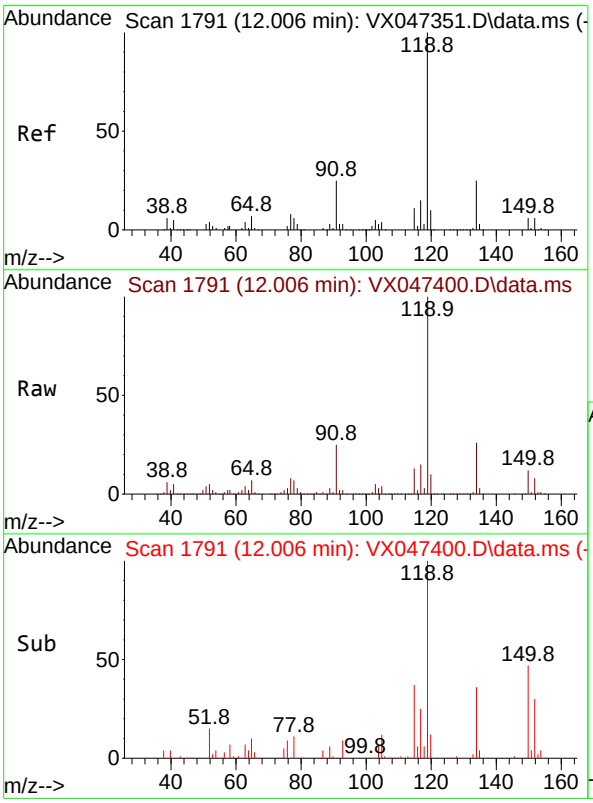
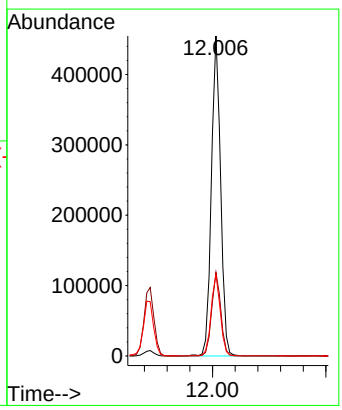
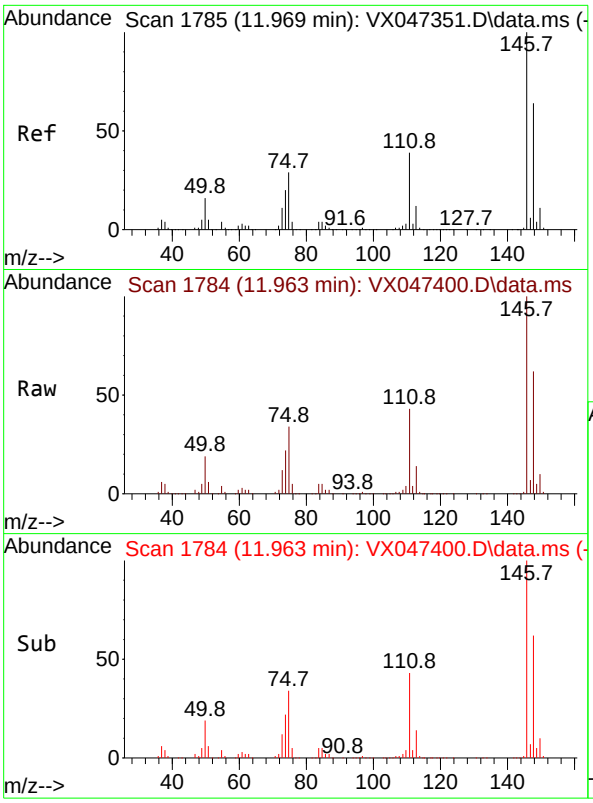


#86
p-Isopropyltoluene
Concen: 45.458 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:119 Resp: 514402

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.8	38.4
91	25.3	12.4	37.4

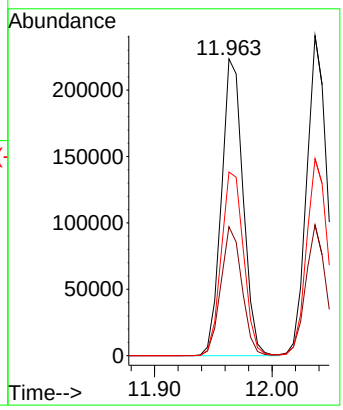




#87
1,3-Dichlorobenzene
Concen: 46.630 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:146 Resp: 28590

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.6	61.8
148	64.0	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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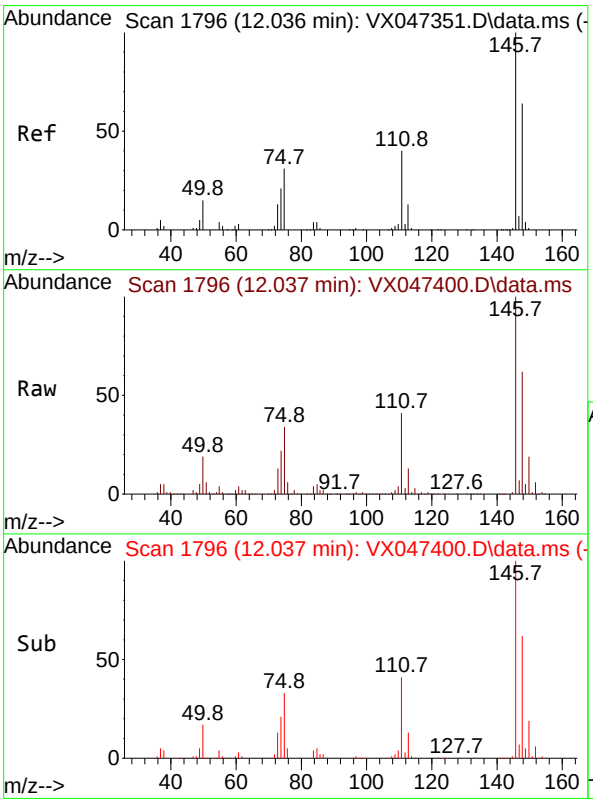
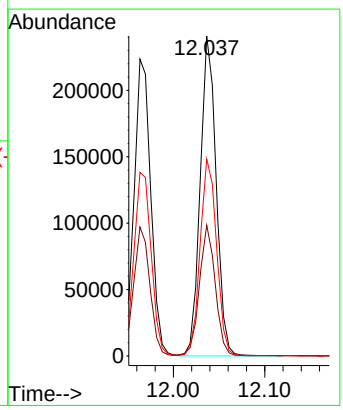
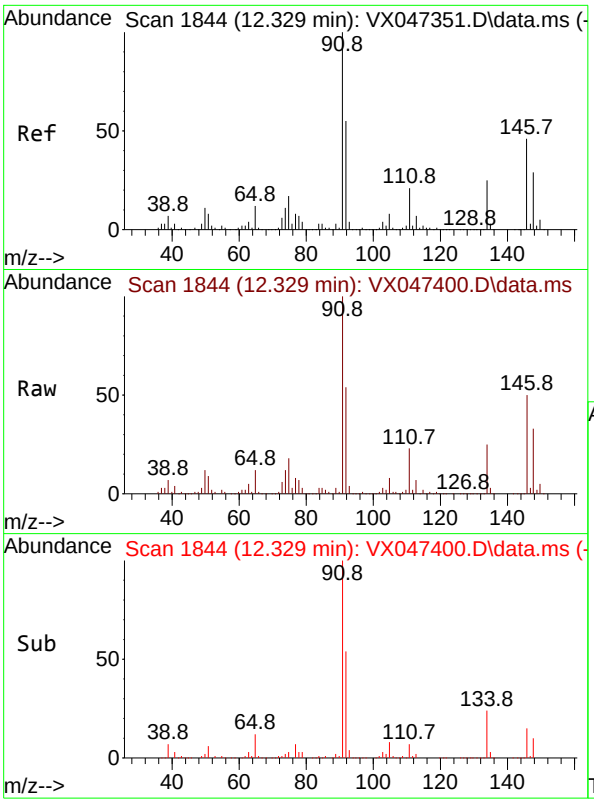


#88
1,4-Dichlorobenzene
Concen: 46.253 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:146 Resp: 291680

Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.4	61.2
148	63.4	31.7	95.1





#89
n-Butylbenzene
Concen: 45.672 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 91 Resp: 48070

Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.2	81.5
134	25.2	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 08/20/2025
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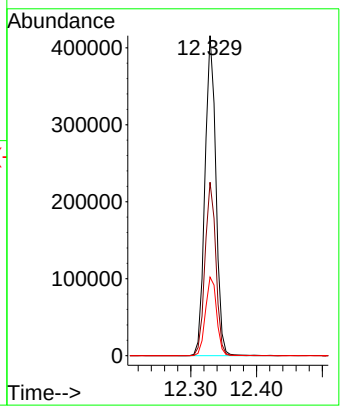
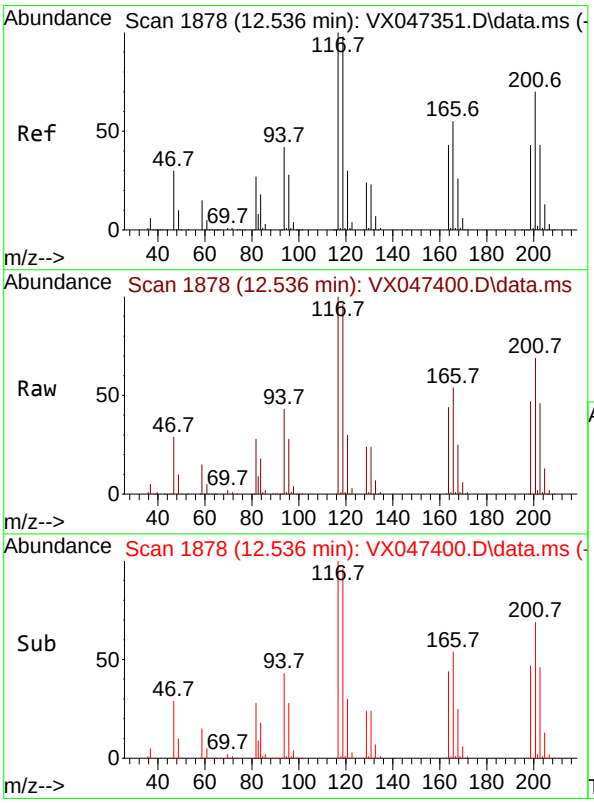
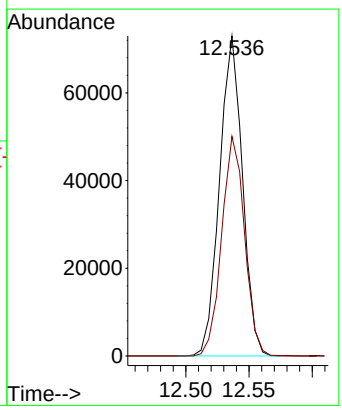


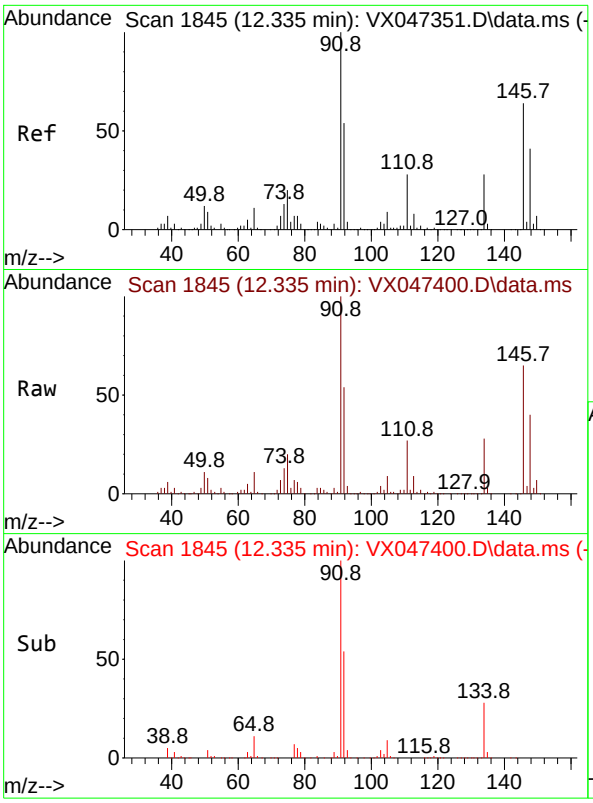


#90
Hexachloroethane
Concen: 46.201 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:117 Resp: 91716

Ion	Ratio	Lower	Upper
117	100		
201	68.6	35.1	105.3

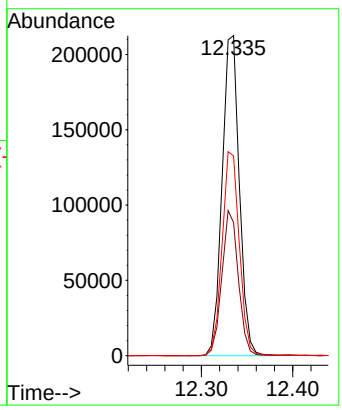




#91
1,2-Dichlorobenzene
Concen: 47.938 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:146 Resp: 27898

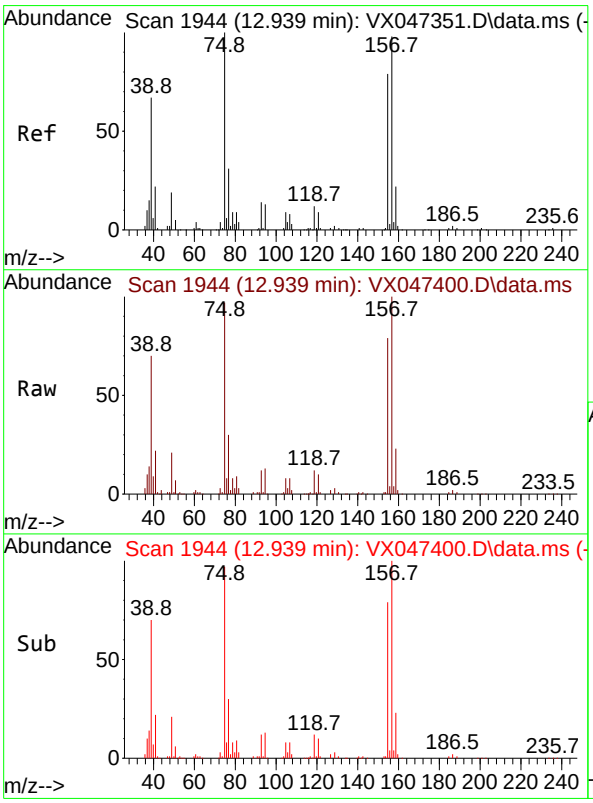
Ion	Ratio	Lower	Upper
146	100		
111	43.4	22.1	66.1
148	63.9	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

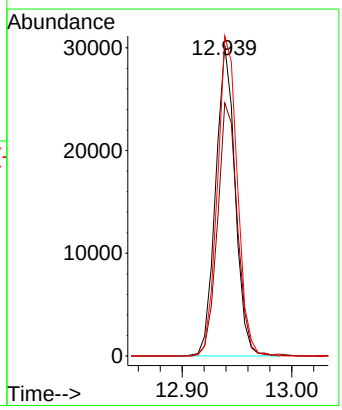
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

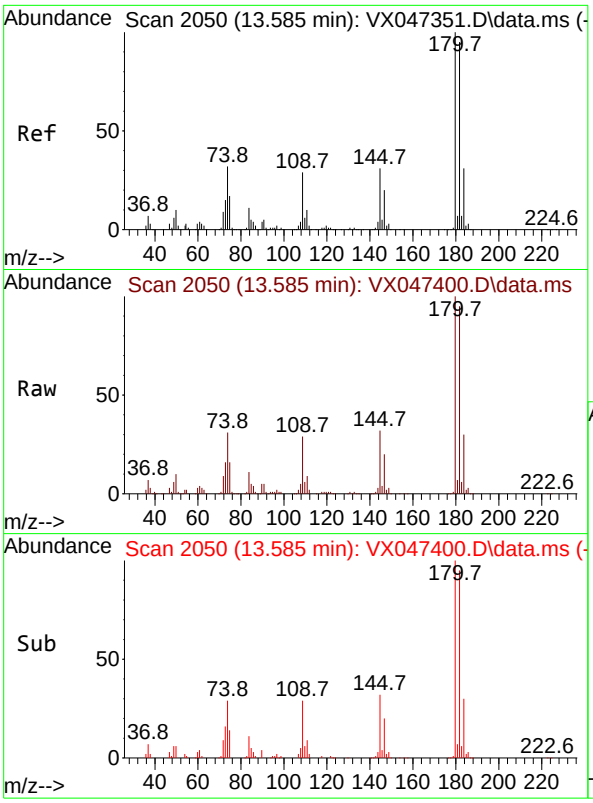


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.925 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 75 Resp: 37258

Ion	Ratio	Lower	Upper
75	100		
155	83.1	41.3	123.7
157	105.7	51.5	154.5

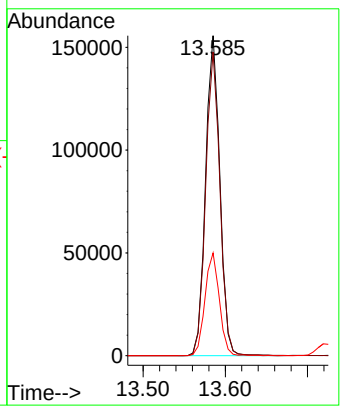




#93
1,2,4-Trichlorobenzene
Concen: 48.028 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:180 Resp: 18737

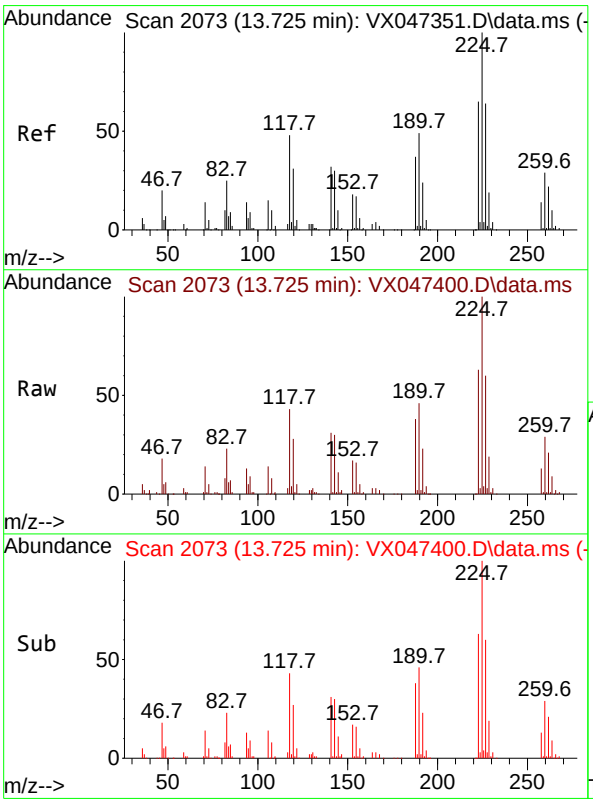
Ion	Ratio	Lower	Upper
180	100		
182	95.0	48.1	144.4
145	32.4	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

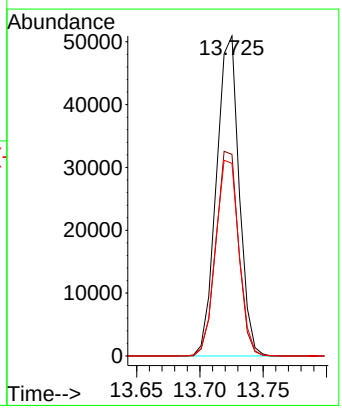
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

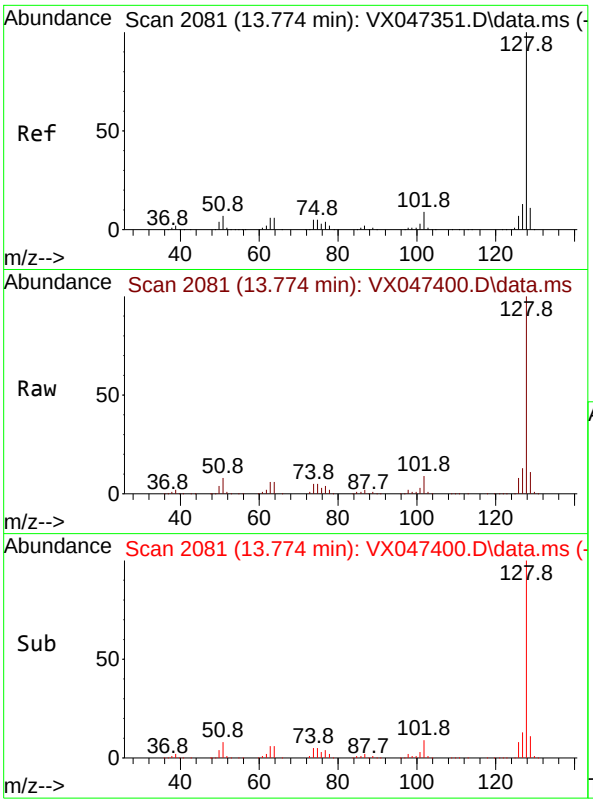


#94
Hexachlorobutadiene
Concen: 45.633 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:225 Resp: 63372

Ion	Ratio	Lower	Upper
225	100		
223	63.8	32.2	96.6
227	63.3	31.6	95.0

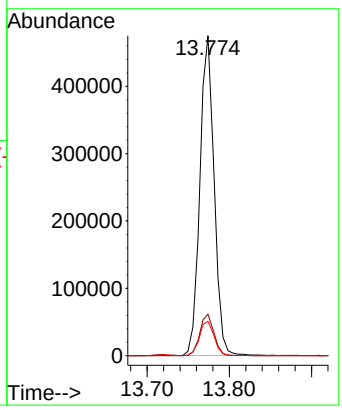




#95
Naphthalene
Concen: 51.217 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:128 Resp: 57103

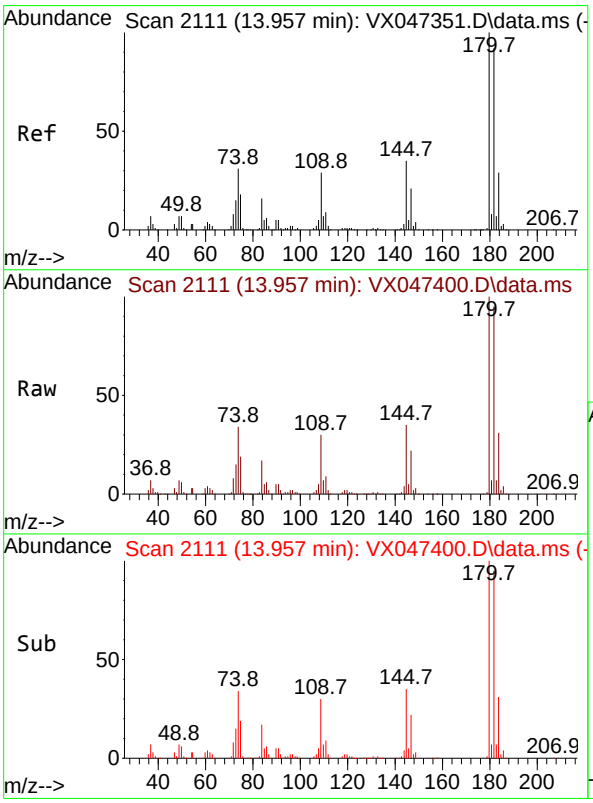
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.1	15.1
129	11.2	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

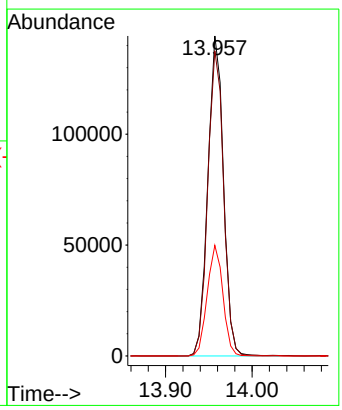
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#96
1,2,3-Trichlorobenzene
Concen: 49.242 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:180 Resp: 181090

Ion	Ratio	Lower	Upper
180	100		
182	96.4	48.0	144.2
145	34.6	17.4	52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	85	0.00
2	T	Dichlorodifluoromethane	0.637	0.584	8.3	68	0.00
3	P	Chloromethane	0.573	0.568	0.9	78	0.00
4	C	Vinyl Chloride	0.720	0.658	8.6#	70	0.00
5	T	Bromomethane	0.291	0.267	8.2	68	0.00
6	T	Chloroethane	0.440	0.408	7.3	75	0.00
7	T	Trichlorofluoromethane	1.065	0.957	10.1	69	0.00
8	T	Diethyl Ether	0.375	0.413	-10.1	85	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.618	0.582	5.8	71	0.00
10	T	Methyl Iodide	1.058	0.893	15.6	66	0.00
11	T	Tert butyl alcohol	0.061	0.072	-18.0	90	0.00
12	CM	1,1-Dichloroethene	0.630	0.596	5.4#	73	0.00
13	T	Acrolein	0.129	0.145	-12.4	94	0.00
14	T	Allyl chloride	1.093	1.106	-1.2	78	0.00
15	T	Acrylonitrile	0.294	0.336	-14.3	84	0.00
16	T	Acetone	0.263	0.281	-6.8	86	0.00
17	T	Carbon Disulfide	1.900	1.705	10.3	73	0.00
18	T	Methyl Acetate	0.682	0.775	-13.6	86	0.00
19	T	Methyl tert-butyl Ether	1.915	2.133	-11.4	84	0.00
20	T	Methylene Chloride	0.697	0.733	-5.2	83	0.00
21	T	trans-1,2-Dichloroethene	0.668	0.656	1.8	77	0.00
22	T	Diisopropyl ether	2.161	2.385	-10.4	83	0.00
23	T	Vinyl Acetate	1.772	2.011	-13.5	84	0.00
24	P	1,1-Dichloroethane	1.222	1.251	-2.4	79	0.00
25	T	2-Butanone	0.344	0.391	-13.7	86	0.00
26	T	2,2-Dichloropropane	0.922	0.908	1.5	76	-0.01
27	T	cis-1,2-Dichloroethene	0.778	0.806	-3.6	81	0.00
28	T	Bromochloromethane	0.508	0.619	-21.9	98	0.00
29	T	Tetrahydrofuran	0.223	0.250	-12.1	87	0.00
30	C	Chloroform	1.247	1.304	-4.6#	81	0.00
31	T	Cyclohexane	1.126	0.994	11.7	70	0.00
32	T	1,1,1-Trichloroethane	1.073	1.041	3.0	74	0.00
33	S	1,2-Dichloroethane-d4	0.700	0.805	-15.0	98	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
35	S	Dibromofluoromethane	0.325	0.344	-5.8	93	0.00
36	T	1,1-Dichloropropene	0.512	0.461	10.0	74	0.00
37	T	Ethyl Acetate	0.532	0.537	-0.9	82	0.00
38	T	Carbon Tetrachloride	0.560	0.503	10.2	75	0.00
39	T	Methylcyclohexane	0.639	0.540	15.5	70	0.00
40	TM	Benzene	1.533	1.493	2.6	79	0.00
41	T	Methacrylonitrile	0.224	0.229	-2.2	80	0.00
42	TM	1,2-Dichloroethane	0.543	0.561	-3.3	84	0.00
43	T	Isopropyl Acetate	0.764	0.817	-6.9	85	0.00
44	TM	Trichloroethene	0.393	0.360	8.4	75	0.00
45	C	1,2-Dichloropropane	0.384	0.390	-1.6#	84	0.00
46	T	Dibromomethane	0.279	0.284	-1.8	85	0.00
47	T	Bromodichloromethane	0.578	0.589	-1.9	84	0.00
48	T	Methyl methacrylate	0.397	0.422	-6.3	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	0.004	0.0	90	0.00
50	S	Toluene-d8	1.160	1.173	-1.1	90	0.00
51	T	4-Methyl-2-Pentanone	0.440	0.479	-8.9	85	0.00
52	CM	Toluene	0.947	0.914	3.5#	78	0.00
53	T	t-1,3-Dichloropropene	0.505	0.553	-9.5	85	0.00
54	T	cis-1,3-Dichloropropene	0.571	0.604	-5.8	85	0.00
55	T	1,1,2-Trichloroethane	0.360	0.376	-4.4	86	0.00
56	T	Ethyl methacrylate	0.530	0.580	-9.4	85	0.00
57	T	1,3-Dichloropropane	0.613	0.641	-4.6	86	0.00
58	T	2-Chloroethyl Vinyl ether	0.211	0.270	-28.0#	89	0.00
59	T	2-Hexanone	0.304	0.329	-8.2	85	0.00
60	T	Dibromochloromethane	0.428	0.444	-3.7	86	0.00
61	T	1,2-Dibromoethane	0.371	0.387	-4.3	85	0.00
62	S	4-Bromofluorobenzene	0.428	0.455	-6.3	96	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
64	T	Tetrachloroethene	0.362	0.319	11.9	74	0.00
65	PM	Chlorobenzene	1.188	1.128	5.1	81	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.398	1.0	83	0.00
67	C	Ethyl Benzene	2.045	1.923	6.0#	78	0.00
68	T	m/p-Xylenes	0.763	0.726	4.8	78	0.00
69	T	o-Xylene	0.734	0.698	4.9	79	0.00
70	T	Styrene	1.240	1.250	-0.8	82	0.00
71	P	Bromoform	0.302	0.316	-4.6	87	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
73	T	Isopropylbenzene	3.913	3.540	9.5	76	0.00
74	T	N-amyl acetate	1.486	1.571	-5.7	86	0.00
75	P	1,1,2,2-Tetrachloroethane	1.149	1.161	-1.0	87	0.00
76	T	1,2,3-Trichloropropane	0.917	0.905	1.3	85	0.00
77	T	Bromobenzene	0.955	0.936	2.0	84	0.00
78	T	n-propylbenzene	4.673	4.273	8.6	78	0.00
79	T	2-Chlorotoluene	2.825	2.611	7.6	80	0.00
80	T	1,3,5-Trimethylbenzene	3.219	3.012	6.4	80	0.00
81	T	trans-1,4-Dichloro-2-butene	0.178	0.182	-2.2	87	0.00
82	T	4-Chlorotoluene	3.330	3.105	6.8	81	0.00
83	T	tert-Butylbenzene	3.212	3.024	5.9	79	0.00
84	T	1,2,4-Trimethylbenzene	3.219	3.060	4.9	79	0.00
85	T	sec-Butylbenzene	3.981	3.627	8.9	78	0.00
86	T	p-Isopropyltoluene	3.369	3.063	9.1	78	0.00
87	T	1,3-Dichlorobenzene	1.825	1.702	6.7	81	0.00
88	T	1,4-Dichlorobenzene	1.877	1.737	7.5	83	0.00
89	T	n-Butylbenzene	3.133	2.862	8.6	79	0.00
90	T	Hexachloroethane	0.591	0.546	7.6	79	0.00
91	T	1,2-Dichlorobenzene	1.733	1.661	4.2	84	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.222	0.222	0.0	85	0.00
93	T	1,2,4-Trichlorobenzene	1.161	1.116	3.9	86	0.00
94	T	Hexachlorobutadiene	0.413	0.377	8.7	88	0.00
95	T	Naphthalene	3.319	3.400	-2.4	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1.095	1.078	1.6	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	85	0.00
2	T	Dichlorodifluoromethane	50.000	45.787	8.4	68	0.00
3	P	Chloromethane	50.000	49.503	1.0	78	0.00
4	C	Vinyl Chloride	50.000	45.739	8.5#	70	0.00
5	T	Bromomethane	50.000	45.891	8.2	68	0.00
6	T	Chloroethane	50.000	46.281	7.4	75	0.00
7	T	Trichlorofluoromethane	50.000	44.970	10.1	69	0.00
8	T	Diethyl Ether	50.000	55.128	-10.3	85	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.108	5.8	71	0.00
10	T	Methyl Iodide	50.000	42.186	15.6	66	0.00
11	T	Tert butyl alcohol	250.000	295.893	-18.4	90	0.00
12	CM	1,1-Dichloroethene	50.000	47.332	5.3#	73	0.00
13	T	Acrolein	250.000	281.792	-12.7	94	0.00
14	T	Allyl chloride	50.000	50.583	-1.2	78	0.00
15	T	Acrylonitrile	250.000	285.809	-14.3	84	0.00
16	T	Acetone	250.000	267.129	-6.9	86	0.00
17	T	Carbon Disulfide	50.000	44.886	10.2	73	0.00
18	T	Methyl Acetate	50.000	56.879	-13.8	86	0.00
19	T	Methyl tert-butyl Ether	50.000	55.686	-11.4	84	0.00
20	T	Methylene Chloride	50.000	52.640	-5.3	83	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.068	1.9	77	0.00
22	T	Diisopropyl ether	50.000	55.175	-10.3	83	0.00
23	T	Vinyl Acetate	250.000	283.754	-13.5	84	0.00
24	P	1,1-Dichloroethane	50.000	51.211	-2.4	79	0.00
25	T	2-Butanone	250.000	283.674	-13.5	86	0.00
26	T	2,2-Dichloropropane	50.000	49.229	1.5	76	-0.01
27	T	cis-1,2-Dichloroethene	50.000	51.764	-3.5	81	0.00
28	T	Bromochloromethane	50.000	60.847	-21.7	98	0.00
29	T	Tetrahydrofuran	250.000	280.608	-12.2	87	0.00
30	C	Chloroform	50.000	52.310	-4.6#	81	0.00
31	T	Cyclohexane	50.000	44.146	11.7	70	0.00
32	T	1,1,1-Trichloroethane	50.000	48.495	3.0	74	0.00
33	S	1,2-Dichloroethane-d4	50.000	57.514	-15.0	98	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	90	0.00
35	S	Dibromofluoromethane	50.000	53.029	-6.1	93	0.00
36	T	1,1-Dichloropropene	50.000	44.977	10.0	74	0.00
37	T	Ethyl Acetate	50.000	50.486	-1.0	82	0.00
38	T	Carbon Tetrachloride	50.000	44.963	10.1	75	0.00
39	T	Methylcyclohexane	50.000	42.274	15.5	70	0.00
40	TM	Benzene	50.000	48.701	2.6	79	0.00
41	T	Methacrylonitrile	50.000	51.049	-2.1	80	0.00
42	TM	1,2-Dichloroethane	50.000	51.678	-3.4	84	0.00
43	T	Isopropyl Acetate	50.000	53.497	-7.0	85	0.00
44	TM	Trichloroethene	50.000	45.821	8.4	75	0.00
45	C	1,2-Dichloropropane	50.000	50.806	-1.6#	84	0.00
46	T	Dibromomethane	50.000	50.893	-1.8	85	0.00
47	T	Bromodichloromethane	50.000	50.965	-1.9	84	0.00
48	T	Methyl methacrylate	50.000	53.246	-6.5	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1160.527	-16.1	90	0.00
50	S	Toluene-d8	50.000	50.584	-1.2	90	0.00
51	T	4-Methyl-2-Pentanone	250.000	272.635	-9.1	85	0.00
52	CM	Toluene	50.000	48.228	3.5#	78	0.00
53	T	t-1,3-Dichloropropene	50.000	54.796	-9.6	85	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.876	-5.8	85	0.00
55	T	1,1,2-Trichloroethane	50.000	52.264	-4.5	86	0.00
56	T	Ethyl methacrylate	50.000	54.700	-9.4	85	0.00
57	T	1,3-Dichloropropane	50.000	52.271	-4.5	86	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	266.315	-6.5	89	0.00
59	T	2-Hexanone	250.000	270.676	-8.3	85	0.00
60	T	Dibromochloromethane	50.000	51.968	-3.9	86	0.00
61	T	1,2-Dibromoethane	50.000	52.124	-4.2	85	0.00
62	S	4-Bromofluorobenzene	50.000	53.183	-6.4	96	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
64	T	Tetrachloroethene	50.000	44.081	11.8	74	0.00
65	PM	Chlorobenzene	50.000	47.476	5.0	81	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.556	0.9	83	0.00
67	C	Ethyl Benzene	50.000	47.006	6.0#	78	0.00
68	T	m/p-Xylenes	100.000	95.157	4.8	78	0.00
69	T	o-Xylene	50.000	47.570	4.9	79	0.00
70	T	Styrene	50.000	50.426	-0.9	82	0.00
71	P	Bromoform	50.000	52.336	-4.7	87	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	95	0.00
73	T	Isopropylbenzene	50.000	45.232	9.5	76	0.00
74	T	N-amyl acetate	50.000	52.861	-5.7	86	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.522	-1.0	87	0.00
76	T	1,2,3-Trichloropropane	50.000	49.366	1.3	85	0.00
77	T	Bromobenzene	50.000	48.962	2.1	84	0.00
78	T	n-propylbenzene	50.000	45.715	8.6	78	0.00
79	T	2-Chlorotoluene	50.000	46.220	7.6	80	0.00
80	T	1,3,5-Trimethylbenzene	50.000	46.784	6.4	80	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	44.250	11.5	87	0.00
82	T	4-Chlorotoluene	50.000	46.620	6.8	81	0.00
83	T	tert-Butylbenzene	50.000	47.081	5.8	79	0.00
84	T	1,2,4-Trimethylbenzene	50.000	47.529	4.9	79	0.00
85	T	sec-Butylbenzene	50.000	45.552	8.9	78	0.00
86	T	p-Isopropyltoluene	50.000	45.458	9.1	78	0.00
87	T	1,3-Dichlorobenzene	50.000	46.630	6.7	81	0.00
88	T	1,4-Dichlorobenzene	50.000	46.253	7.5	83	0.00
89	T	n-Butylbenzene	50.000	45.672	8.7	79	0.00
90	T	Hexachloroethane	50.000	46.201	7.6	79	0.00
91	T	1,2-Dichlorobenzene	50.000	47.938	4.1	84	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.925	0.2	85	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.028	3.9	86	0.00
94	T	Hexachlorobutadiene	50.000	45.633	8.7	88	0.00
95	T	Naphthalene	50.000	51.217	-2.4	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	49.242	1.5	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2815
Instrument ID: MSVOA_X
Calibration Date/Time: 08/19/2025 19:47
Lab File ID: VX047425.D
Init. Calib. Date(s): 08/15/2025 08/15/2025
Heated Purge: (Y/N) N
Init. Calib. Time(s): 09:40 12:30
GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.637	0.547		-14.13	50
Chloromethane	0.573	0.508	0.1	-11.34	50
Vinyl Chloride	0.720	0.633		-12.08	50
Bromomethane	0.291	0.253		-13.06	50
Chloroethane	0.440	0.372		-15.45	50
Trichlorofluoromethane	1.065	0.912		-14.37	50
1,1,2-Trichlorotrifluoroethane	0.618	0.522		-15.53	50
1,1-Dichloroethene	0.630	0.557		-11.59	50
Acetone	0.263	0.242		-7.99	50
Carbon Disulfide	1.900	1.519		-20.05	50
Methyl tert-butyl Ether	1.915	1.875		-2.09	50
Methyl Acetate	0.682	0.748		9.68	50
Methylene Chloride	0.697	0.653		-6.31	50
trans-1,2-Dichloroethene	0.668	0.594		-11.08	50
1,1-Dichloroethane	1.222	1.145	0.1	-6.3	50
Cyclohexane	1.126	0.940		-16.52	50
2-Butanone	0.344	0.363		5.52	50
Carbon Tetrachloride	0.560	0.458		-18.21	50
cis-1,2-Dichloroethene	0.778	0.717		-7.84	50
Bromochloromethane	0.508	0.538		5.91	50
Chloroform	1.247	1.182		-5.21	50
1,1,1-Trichloroethane	1.073	0.954		-11.09	50
Methylcyclohexane	0.639	0.496		-22.38	50
Benzene	1.533	1.348		-12.07	50
1,2-Dichloroethane	0.543	0.493		-9.21	50
Trichloroethene	0.393	0.334		-15.01	50
1,2-Dichloropropane	0.384	0.346		-9.9	50
Bromodichloromethane	0.578	0.518		-10.38	50
4-Methyl-2-Pentanone	0.440	0.437		-0.68	50
Toluene	0.947	0.845		-10.77	50
t-1,3-Dichloropropene	0.505	0.461		-8.71	50
cis-1,3-Dichloropropene	0.571	0.518		-9.28	50
1,1,2-Trichloroethane	0.360	0.333		-7.5	50
2-Hexanone	0.304	0.299		-1.64	50
Dibromochloromethane	0.428	0.391		-8.65	50
1,2-Dibromoethane	0.371	0.340		-8.36	50
Tetrachloroethene	0.362	0.288		-20.44	50
Chlorobenzene	1.188	0.994	0.3	-16.33	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: FIRS02

Lab Code: ACE | SDG No.: Q2815

Instrument ID: MSVOA_X | Calibration Date/Time: 08/19/2025 19:47

Lab File ID: VX047425.D | Init. Calib. Date(s): 08/15/2025 08/15/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:40 12:30

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.045	1.716		-16.09	50
m/p-Xylenes	0.763	0.649		-14.94	50
o-Xylene	0.734	0.626		-14.71	50
Styrene	1.240	1.095		-11.69	50
Bromoform	0.302	0.264	0.1	-12.58	50
Isopropylbenzene	3.913	3.162		-19.19	50
1,1,2,2-Tetrachloroethane	1.149	0.994	0.3	-13.49	50
1,3-Dichlorobenzene	1.825	1.476		-19.12	50
1,4-Dichlorobenzene	1.877	1.491		-20.57	50
1,2-Dichlorobenzene	1.733	1.417		-18.23	50
1,2-Dibromo-3-Chloropropane	0.222	0.195		-12.16	50
1,2,4-Trichlorobenzene	1.161	0.936		-19.38	50
1,2,3-Trichlorobenzene	1.095	0.902		-17.63	50
1,2-Dichloroethane-d4	0.700	0.792		13.14	50
Dibromofluoromethane	0.325	0.337		3.69	50
Toluene-d8	1.160	1.149		-0.95	50
4-Bromofluorobenzene	0.428	0.468		9.35	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\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	223750	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	400909	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	374153	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	191138	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	177256	56.605	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 113.220%			
35) Dibromofluoromethane	5.397	113	135082	51.916	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.840%			
50) Toluene-d8	8.653	98	460594	49.526	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.060%			
62) 4-Bromofluorobenzene	11.079	95	187594	54.662	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 109.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	122389	42.909	ug/l	99
3) Chloromethane	1.313	50	113628	44.284	ug/l	99
4) Vinyl Chloride	1.392	62	141572	43.958	ug/l	99
5) Bromomethane	1.624	94	56610	43.518	ug/l	98
6) Chloroethane	1.703	64	83257	42.252	ug/l	99
7) Trichlorofluoromethane	1.904	101	204089	42.842	ug/l	98
8) Diethyl Ether	2.148	74	81882	48.815	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.349	101	116723	42.239	ug/l	98
10) Methyl Iodide	2.471	142	150394	31.758	ug/l	99
11) Tert butyl alcohol	2.965	59	74502	273.483	ug/l	96
12) 1,1-Dichloroethene	2.337	96	124577	44.220	ug/l	95
13) Acrolein	2.252	56	153473	266.880	ug/l	99
14) Allyl chloride	2.684	41	219208	44.799	ug/l	99
15) Acrylonitrile	3.081	53	341211	259.205	ug/l	99
16) Acetone	2.392	43	271040	230.270	ug/l	97
17) Carbon Disulfide	2.532	76	339858	39.978	ug/l	100
18) Methyl Acetate	2.715	43	167342	54.862	ug/l	97
19) Methyl tert-butyl Ether	3.123	73	419584	48.957	ug/l	99
20) Methylene Chloride	2.806	84	146215	46.911	ug/l	98
21) trans-1,2-Dichloroethene	3.111	96	132919	44.453	ug/l	97
22) Diisopropyl ether	3.776	45	479885	49.616	ug/l	95
23) Vinyl Acetate	3.733	43	1963477	247.674	ug/l	99
24) 1,1-Dichloroethane	3.623	63	256138	46.852	ug/l	99
25) 2-Butanone	4.568	43	406290	263.558	ug/l	99
26) 2,2-Dichloropropane	4.495	77	162354	39.347	ug/l	99
27) cis-1,2-Dichloroethene	4.507	96	160514	46.090	ug/l	98
28) Bromochloromethane	4.910	49	120442	52.943	ug/l	99
29) Tetrahydrofuran	5.025	42	258930	259.873	ug/l	99
30) Chloroform	5.105	83	264579	47.421	ug/l	98
31) Cyclohexane	5.489	56	210293	41.728	ug/l	96
32) 1,1,1-Trichloroethane	5.397	97	213461	44.449	ug/l	99
36) 1,1-Dichloropropene	5.702	75	172322	41.954	ug/l	100
37) Ethyl Acetate	4.727	43	188718	44.258	ug/l	98
38) Carbon Tetrachloride	5.696	117	183554	40.895	ug/l	95
39) Methylcyclohexane	7.385	83	198884	38.819	ug/l	94
40) Benzene	6.050	78	540313	43.949	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.940	41	85601	47.606 ug/l		96
42) 1,2-Dichloroethane	6.098	62	197600	45.376 ug/l		99
43) Isopropyl Acetate	6.354	43	293062	47.841 ug/l		99
44) Trichloroethene	7.129	130	133973	42.559 ug/l		96
45) 1,2-Dichloropropane	7.433	63	138835	45.077 ug/l		98
46) Dibromomethane	7.586	93	102584	45.878 ug/l		98
47) Bromodichloromethane	7.824	83	207551	44.775 ug/l		100
48) Methyl methacrylate	7.696	41	151800	47.741 ug/l		100
49) 1,4-Dioxane	7.683	88	31220	1010.025 ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	876089	248.529 ug/l		98
52) Toluene	8.720	92	338753	44.591 ug/l		99
53) t-1,3-Dichloropropene	8.982	75	184995	45.727 ug/l		100
54) cis-1,3-Dichloropropene	8.372	75	207853	45.391 ug/l		97
55) 1,1,2-Trichloroethane	9.153	97	133696	46.352 ug/l		98
56) Ethyl methacrylate	9.116	69	206281	48.508 ug/l		99
57) 1,3-Dichloropropane	9.311	76	228701	46.532 ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	483102	238.311 ug/l		99
59) 2-Hexanone	9.433	43	598364	245.394 ug/l		100
60) Dibromochloromethane	9.518	129	156660	45.703 ug/l		100
61) 1,2-Dibromoethane	9.610	107	136293	45.823 ug/l		99
64) Tetrachloroethene	9.275	164	107708	39.799 ug/l		99
65) Chlorobenzene	10.079	112	371836	41.820 ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.165	131	130456	43.404 ug/l		100
67) Ethyl Benzene	10.195	91	642123	41.960 ug/l		99
68) m/p-Xylenes	10.299	106	485680	85.114 ug/l		99
69) o-Xylene	10.640	106	234310	42.669 ug/l		99
70) Styrene	10.652	104	409804	44.167 ug/l		99
71) Bromoform	10.799	173	98912	43.805 ug/l	#	99
73) Isopropylbenzene	10.963	105	604342	40.404 ug/l		99
74) N-amyl acetate	10.841	43	253123	44.564 ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	189997	43.264 ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	150321m	42.879 ug/l		
77) Bromobenzene	11.195	156	151274	41.417 ug/l		99
78) n-propylbenzene	11.305	91	718624	40.228 ug/l		99
79) 2-Chlorotoluene	11.360	91	435174	40.298 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	499524	40.589 ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	28218	37.350 ug/l		100
82) 4-Chlorotoluene	11.451	91	504359	39.621 ug/l		99
83) tert-Butylbenzene	11.713	119	497254	40.499 ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	509532	41.402 ug/l		99
85) sec-Butylbenzene	11.890	105	611062	40.153 ug/l		100
86) p-Isopropyltoluene	12.006	119	512989	39.835 ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	282173	40.440 ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	284933	39.703 ug/l		100
89) n-Butylbenzene	12.329	91	478191	39.923 ug/l		100
90) Hexachloroethane	12.536	117	90127	39.894 ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	270890	40.902 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	37223	43.828 ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	178812	40.273 ug/l		99
94) Hexachlorobutadiene	13.725	225	58535	37.038 ug/l		99
95) Naphthalene	13.774	128	564719	44.507 ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	172490	41.215 ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

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

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

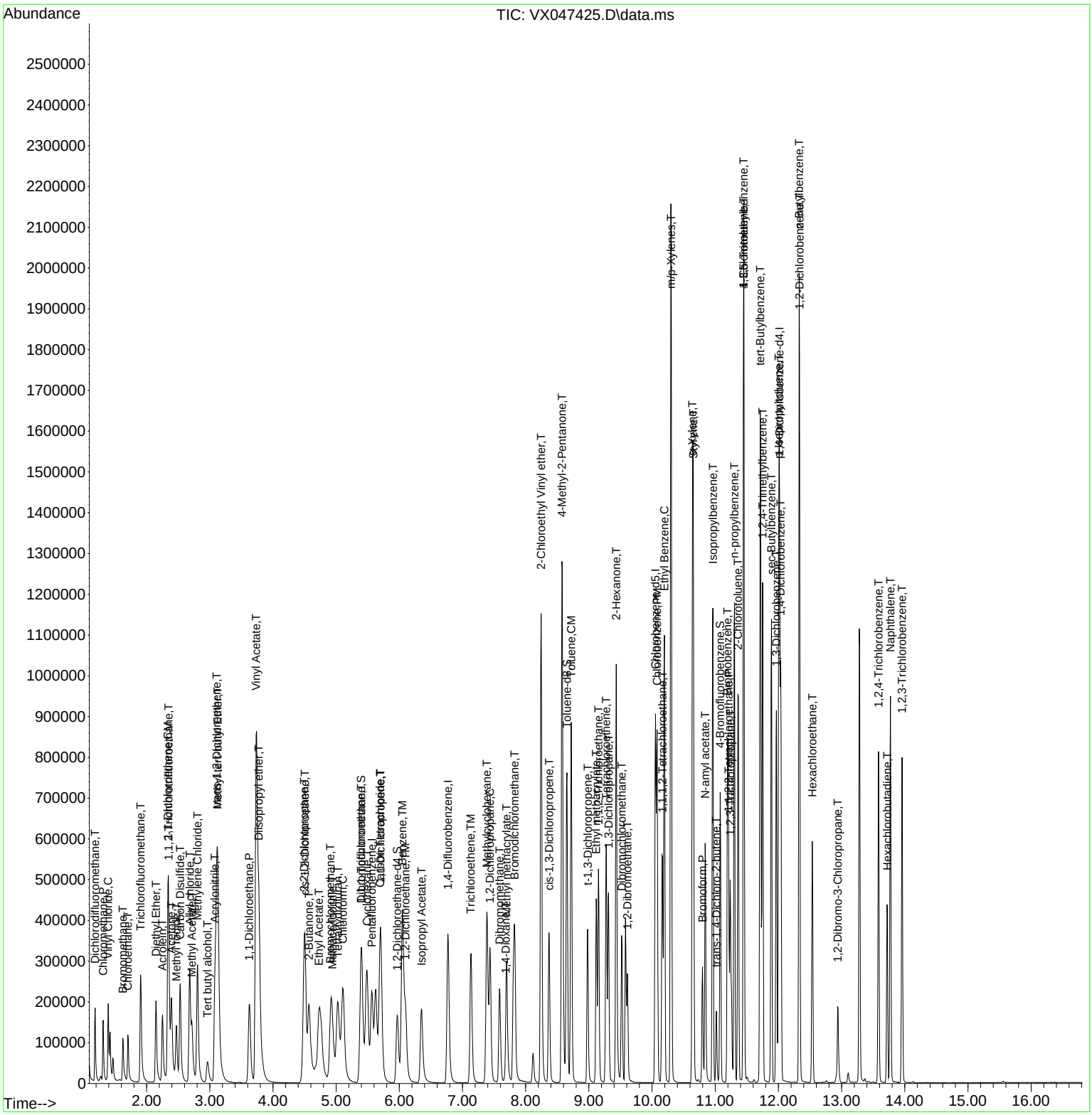
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

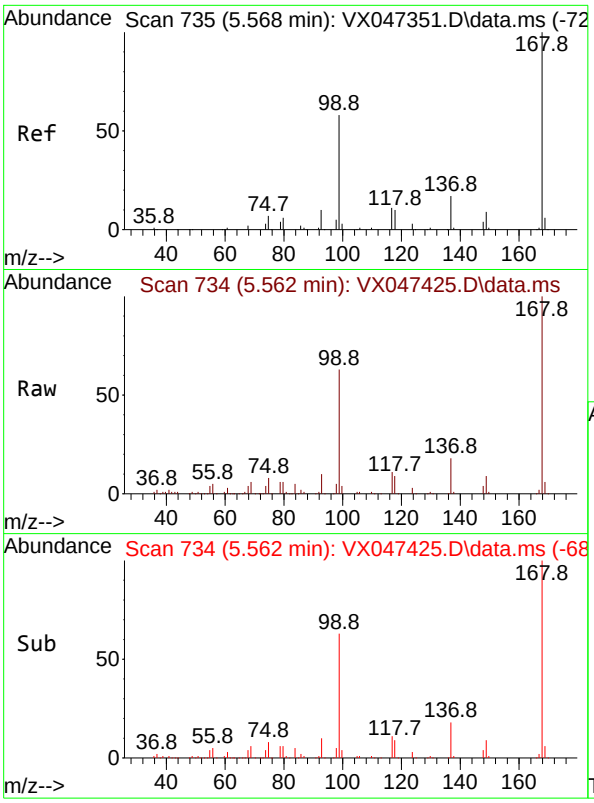
Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

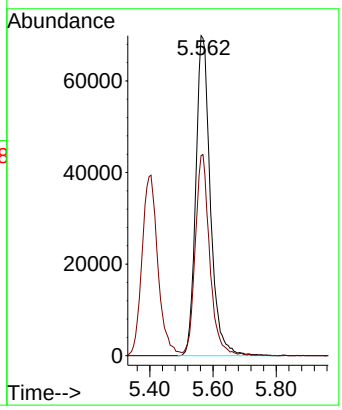




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:168 Resp: 22375

Ion	Ratio	Lower	Upper
168	100		
99	62.6	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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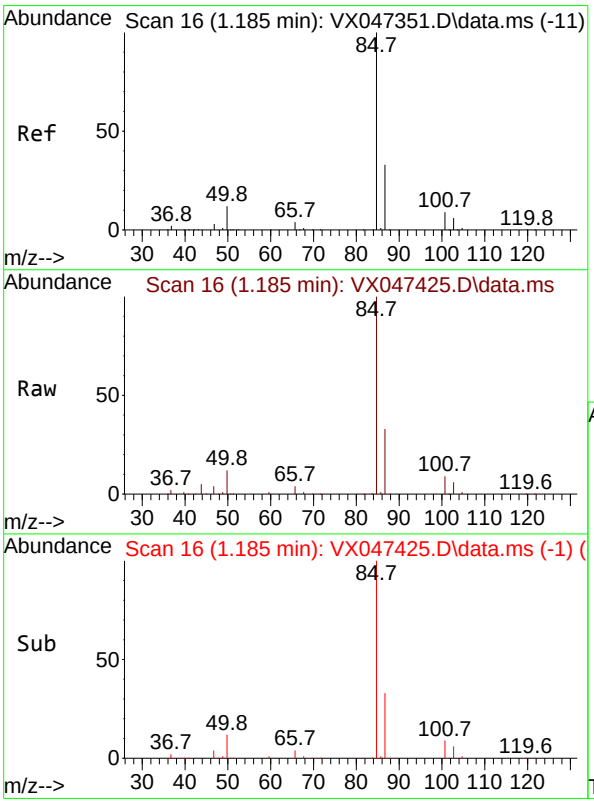
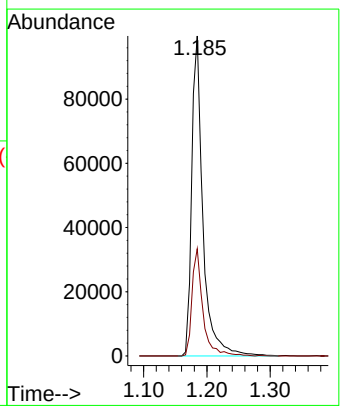
Supervised By :Mahesh Dadoda 08/20/2025

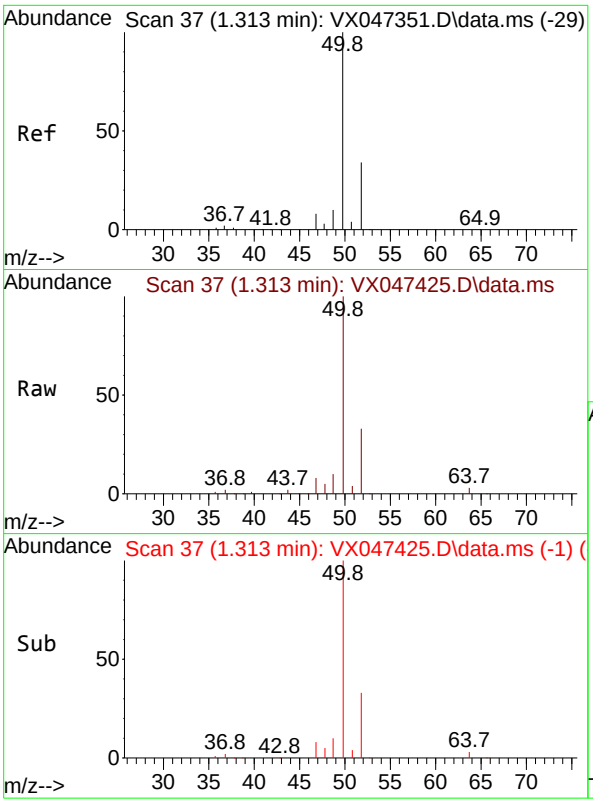


#2
Dichlorodifluoromethane
Concen: 42.909 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 85 Resp: 122389

Ion	Ratio	Lower	Upper
85	100		
87	33.5	16.4	49.1

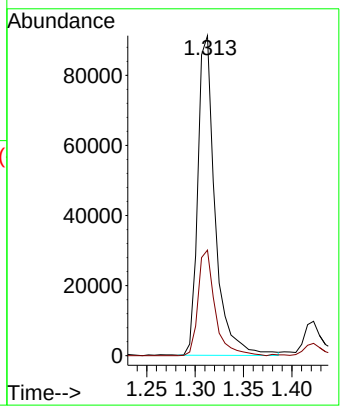




#3
Chloromethane
Concen: 44.284 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 50 Resp: 11362

Ion	Ratio	Lower	Upper
50	100		
52	33.0	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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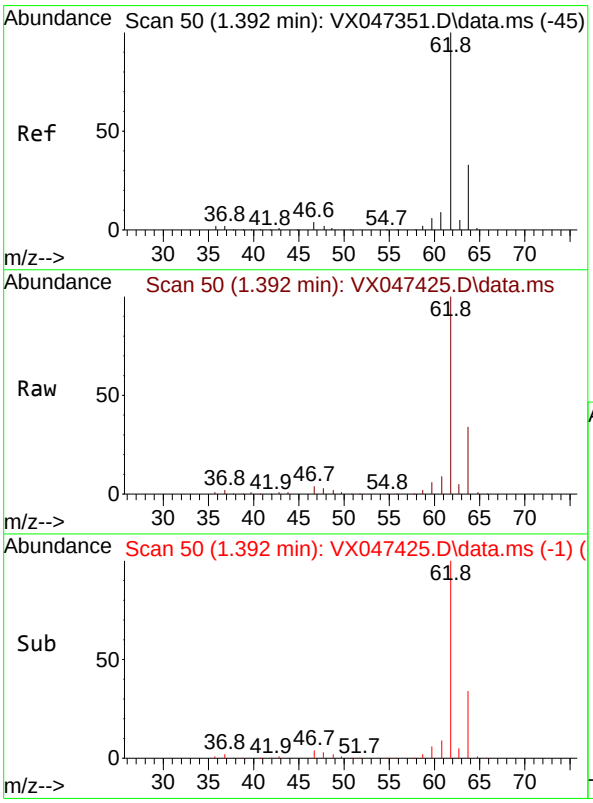
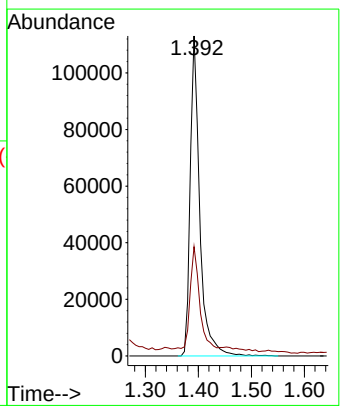
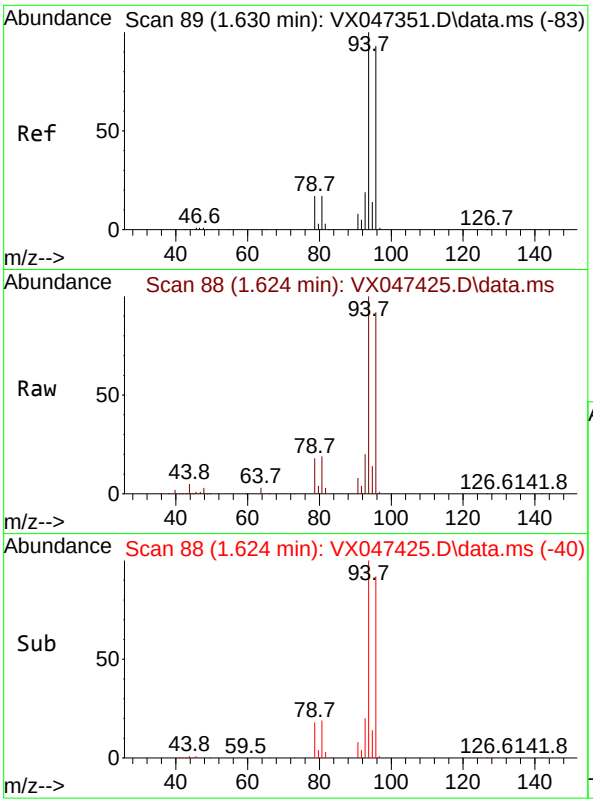


#4
Vinyl Chloride
Concen: 43.958 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 62 Resp: 141572

Ion	Ratio	Lower	Upper
62	100		
64	32.7	26.5	39.7

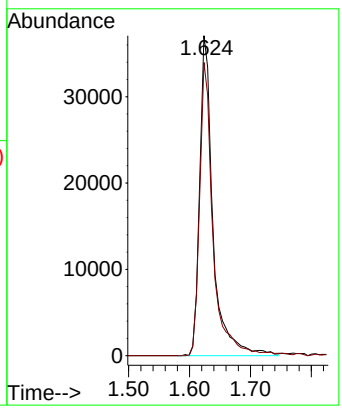




#5
Bromomethane
Concen: 43.518 ug/l
RT: 1.624 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 94 Resp: 5661

Ion	Ratio	Lower	Upper
94	100		
96	91.6	74.7	112.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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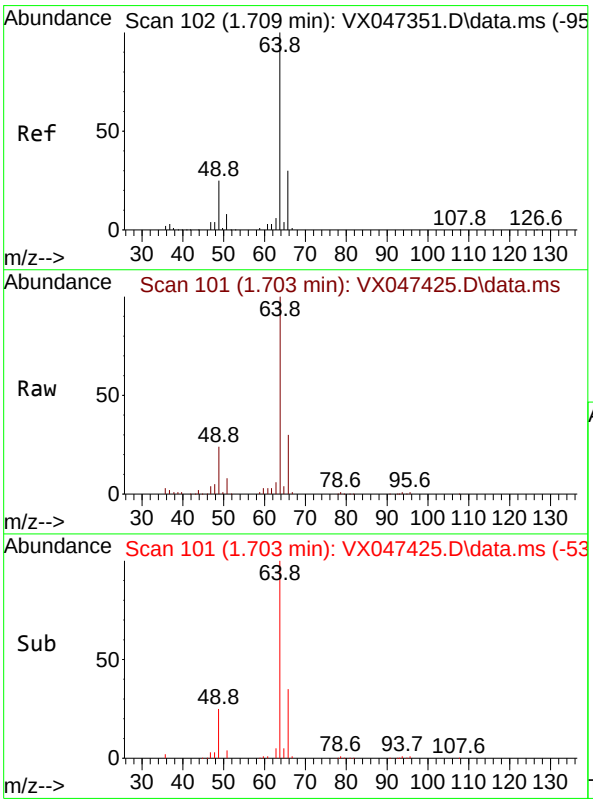
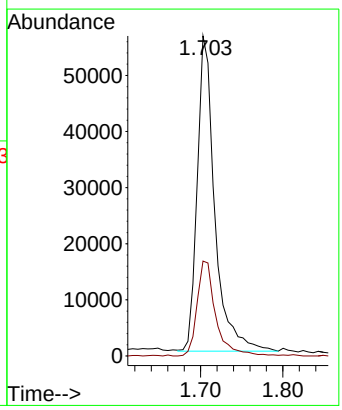
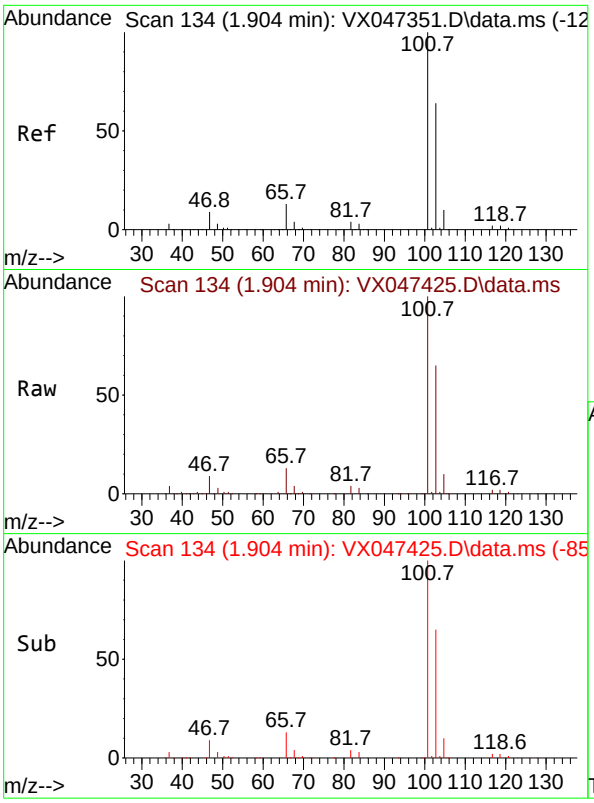


#6
Chloroethane
Concen: 42.252 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 64 Resp: 83257

Ion	Ratio	Lower	Upper
64	100		
66	30.1	24.4	36.6

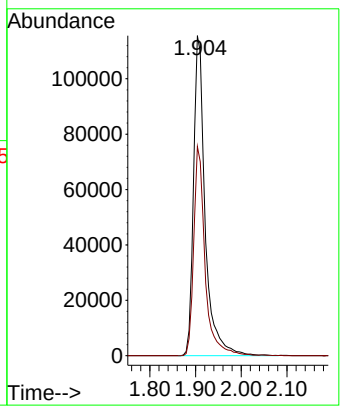




#7
Trichlorofluoromethane
Concen: 42.842 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:101 Resp: 20408

Ion	Ratio	Lower	Upper
101	100		
103	65.4	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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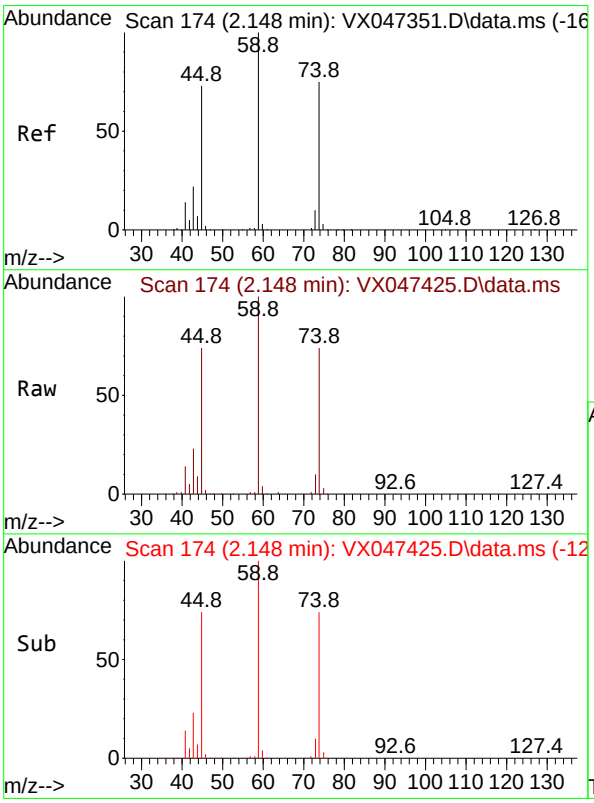
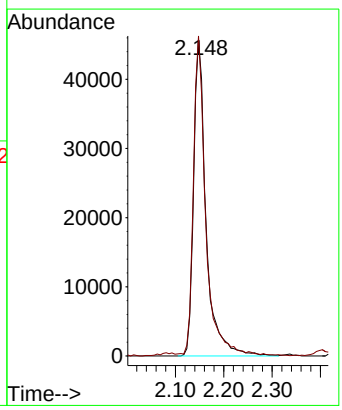
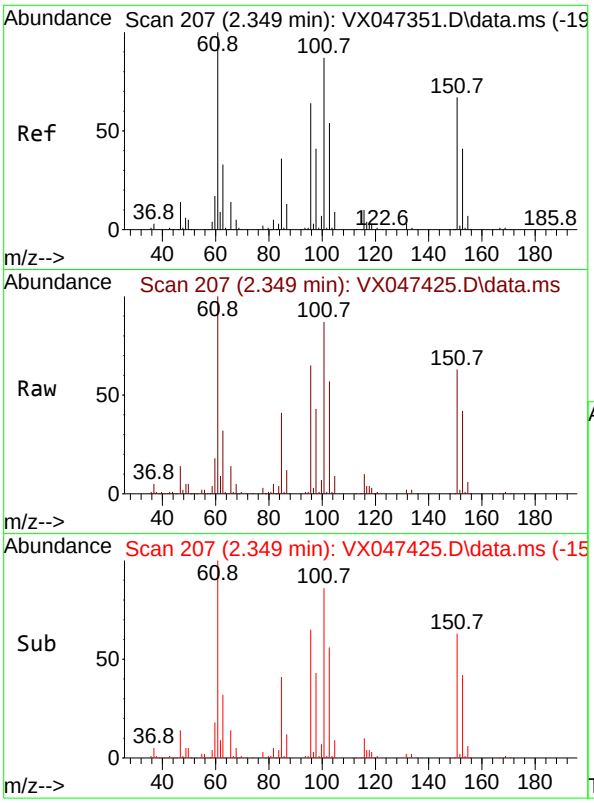


#8
Diethyl Ether
Concen: 48.815 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 74 Resp: 81882

Ion	Ratio	Lower	Upper
74	100		
45	98.8	51.3	154.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 42.239 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:101 Resp: 11672

Ion	Ratio	Lower	Upper
101	100		
85	44.9	34.3	51.5
151	75.2	59.2	88.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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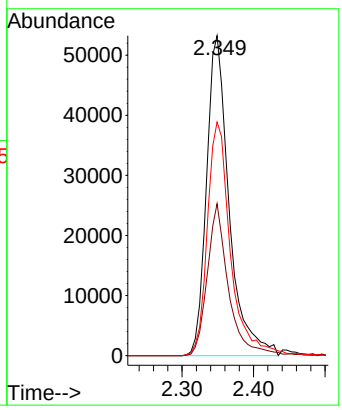
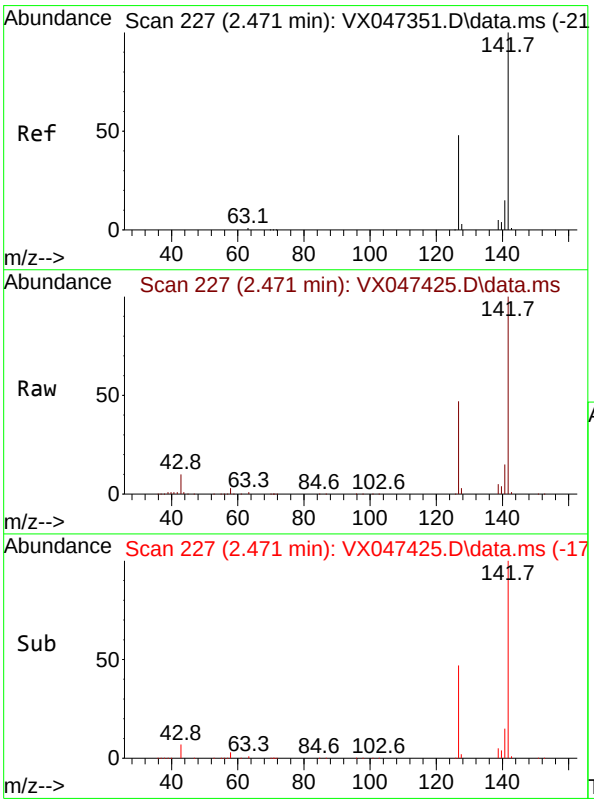
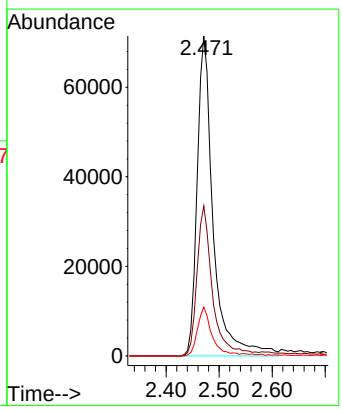


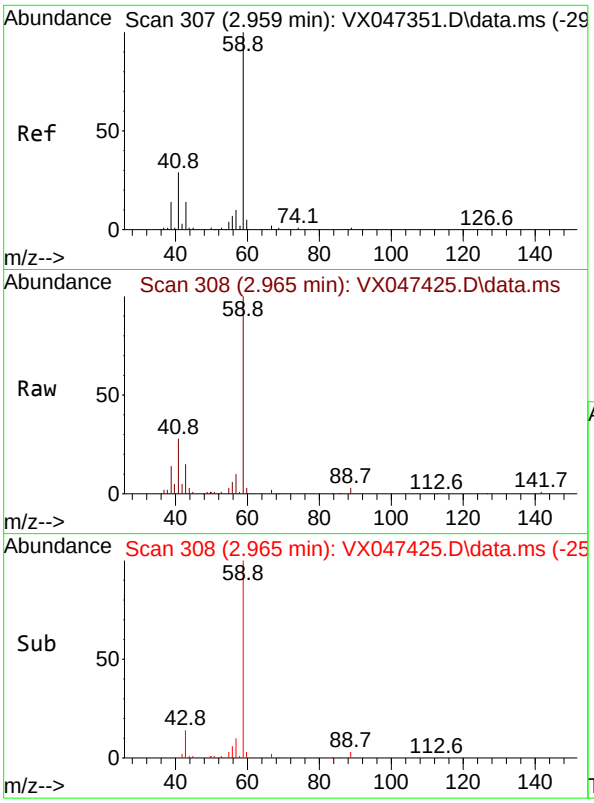


#10
Methyl Iodide
Concen: 31.758 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:142 Resp: 150394

Ion	Ratio	Lower	Upper
142	100		
127	45.3	36.1	54.1
141	14.5	11.1	16.7

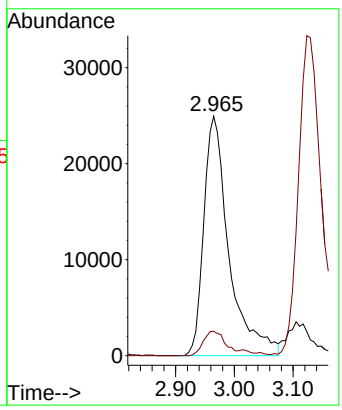




#11
Tert butyl alcohol
Concen: 273.483 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 59 Resp: 7450

Ion	Ratio	Lower	Upper
59	100		
57	9.0	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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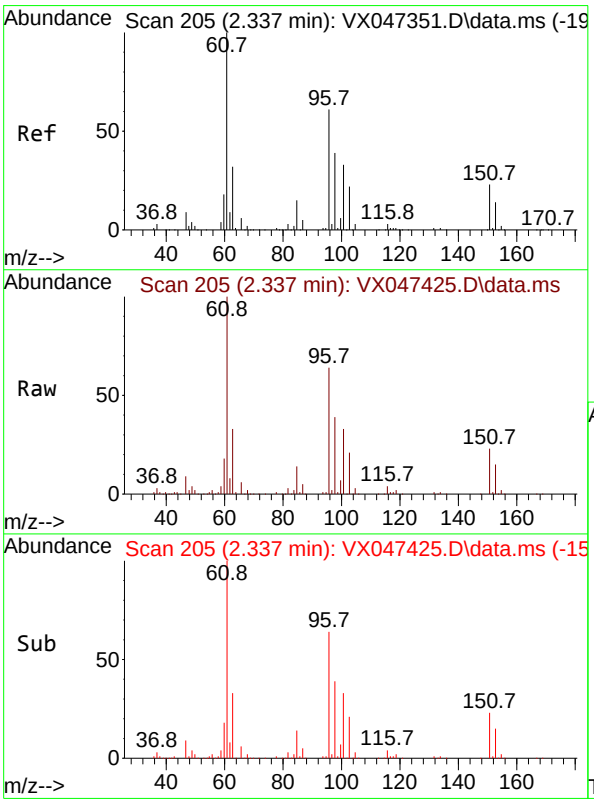
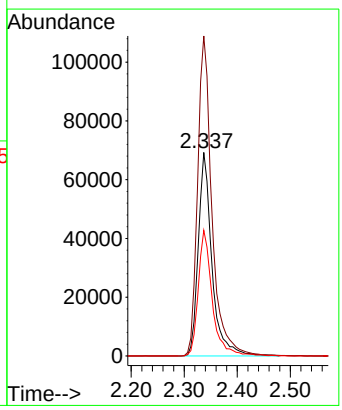
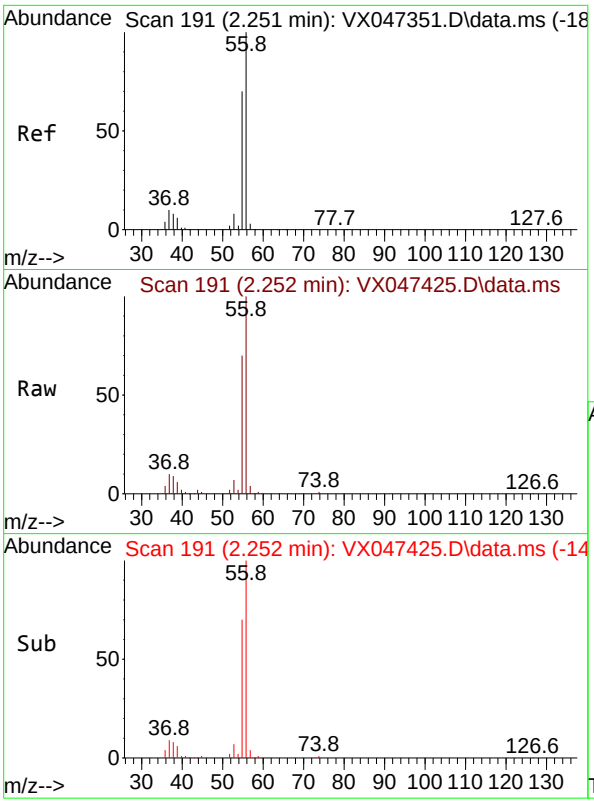


#12
1,1-Dichloroethene
Concen: 44.220 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 96 Resp: 124577

Ion	Ratio	Lower	Upper
96	100		
61	157.3	132.2	198.2
98	61.8	51.2	76.8

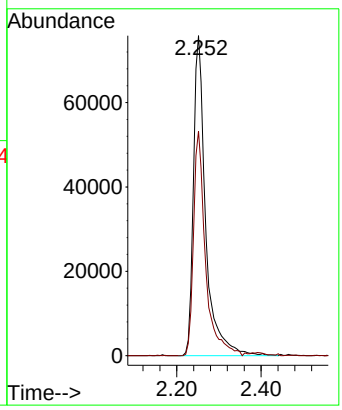




#13
Acrolein
Concen: 266.880 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 56 Resp: 15347

Ion	Ratio	Lower	Upper
56	100		
55	68.6	55.5	83.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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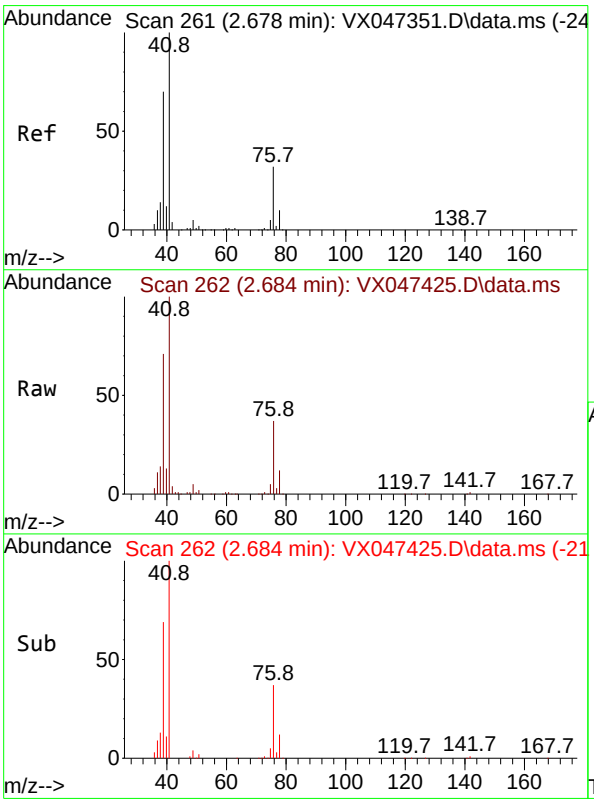
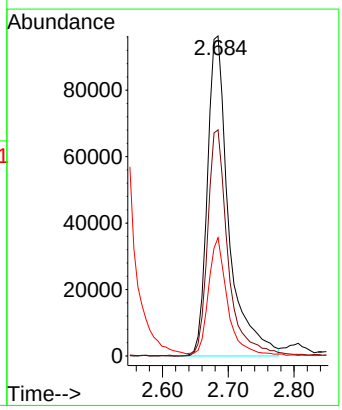
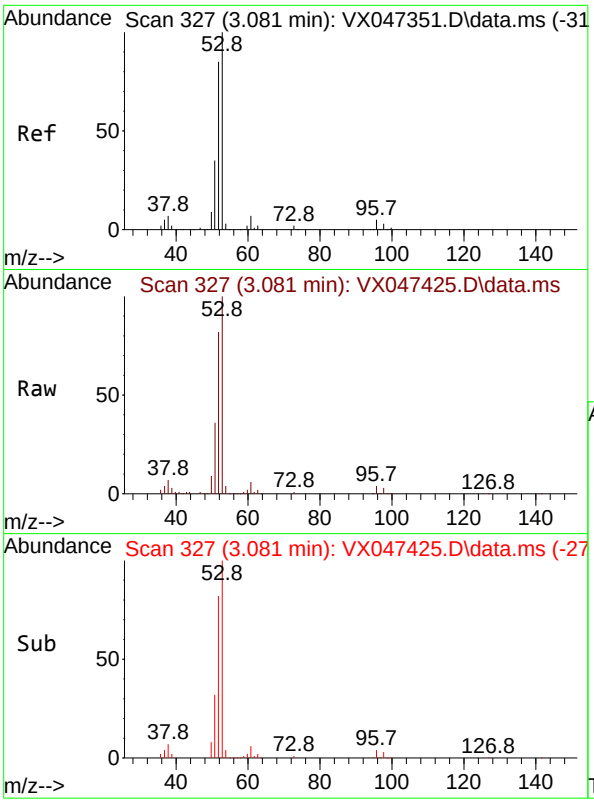


#14
Allyl chloride
Concen: 44.799 ug/l
RT: 2.684 min Scan# 262
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 41 Resp: 219208

Ion	Ratio	Lower	Upper
41	100		
39	67.5	54.6	81.8
76	33.2	27.6	41.4





#15
Acrylonitrile
Concen: 259.205 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 53 Resp: 34121

Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.8	98.6
51	36.5	28.2	42.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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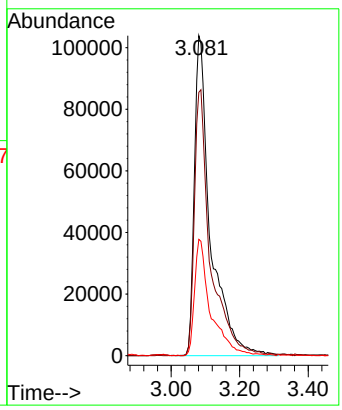
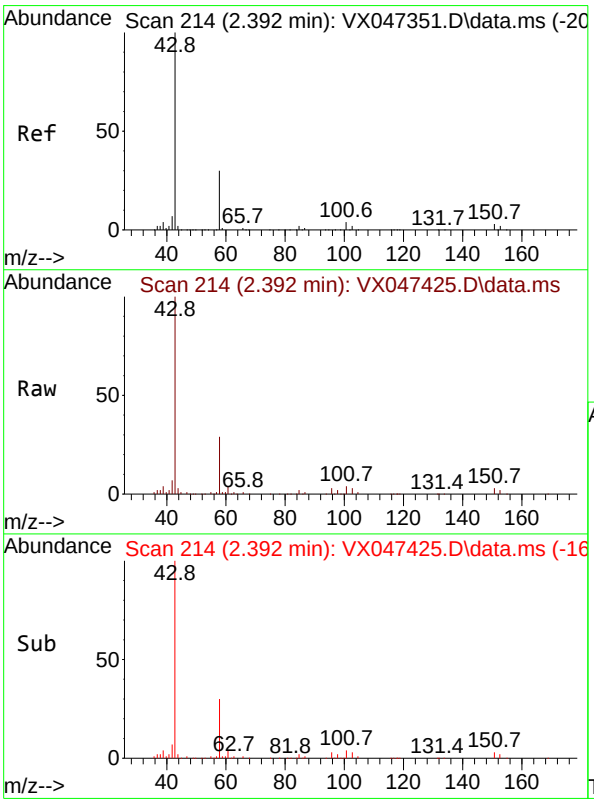
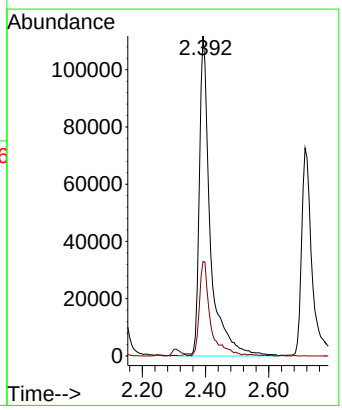


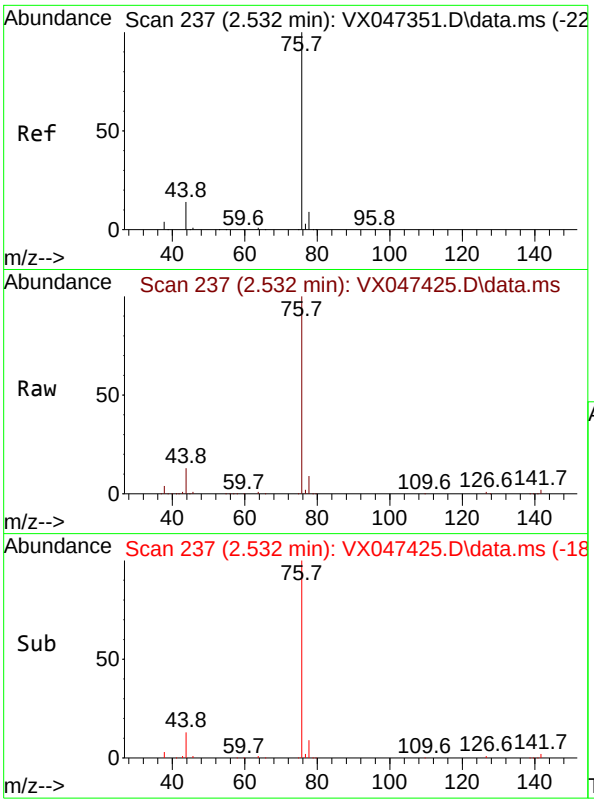


#16
Acetone
Concen: 230.270 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 43 Resp: 271040

Ion	Ratio	Lower	Upper
43	100		
58	29.4	24.8	37.2





#17
Carbon Disulfide
Concen: 39.978 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 76 Resp: 33985

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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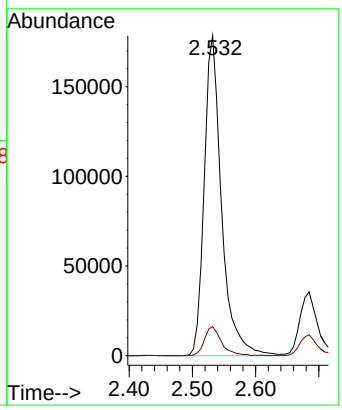
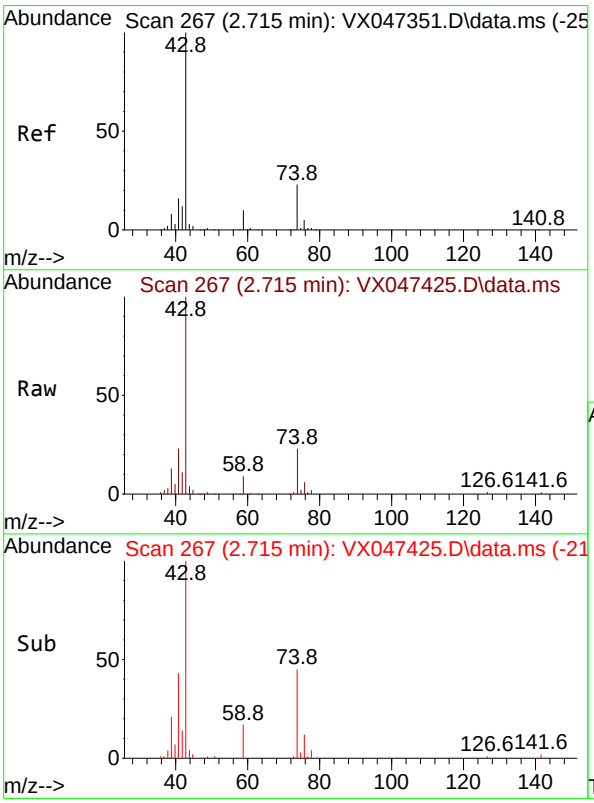
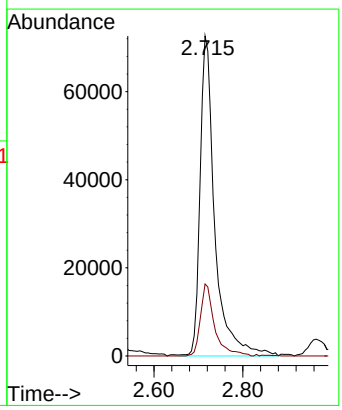


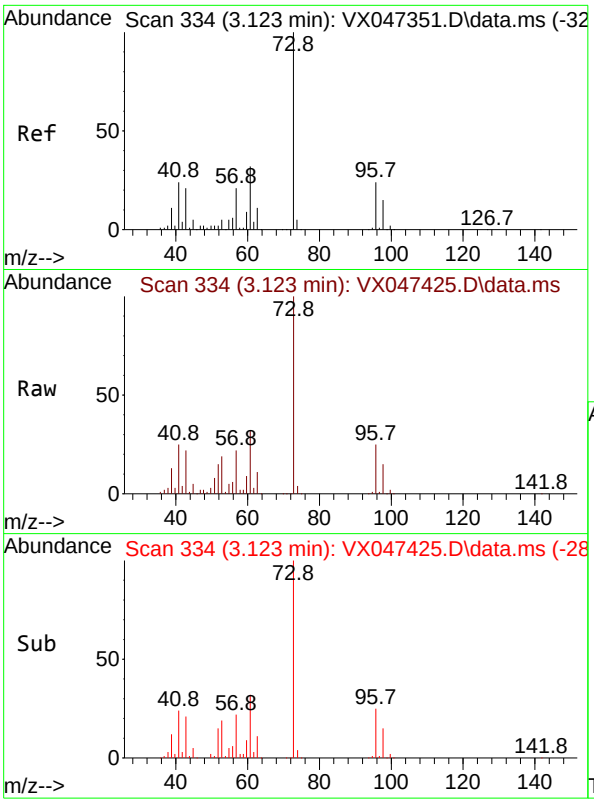


#18
Methyl Acetate
Concen: 54.862 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 43 Resp: 167342

Ion	Ratio	Lower	Upper
43	100		
74	21.6	18.4	27.6

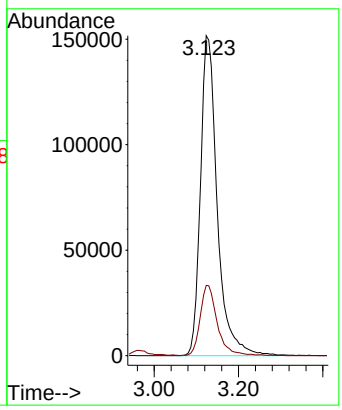




#19
Methyl tert-butyl Ether
Concen: 48.957 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 73 Resp: 41958

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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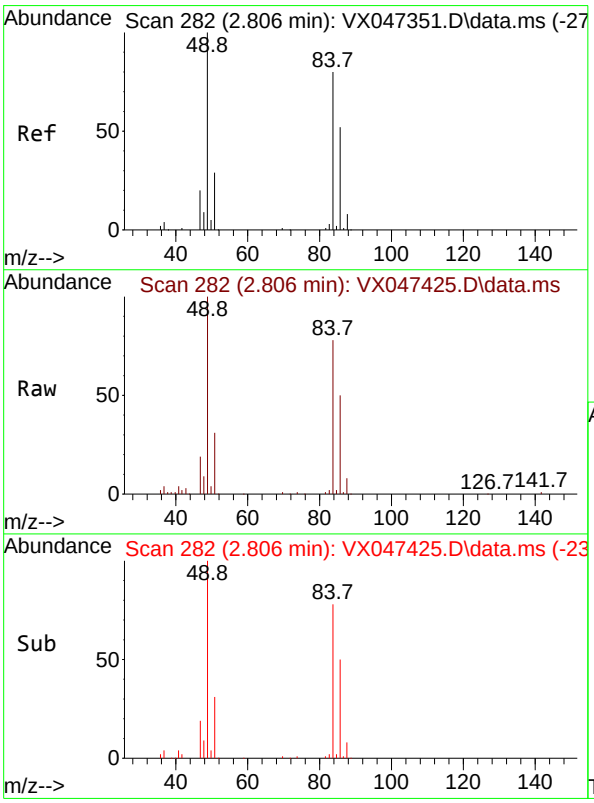
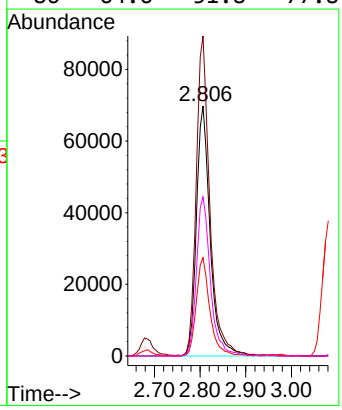
Supervised By :Mahesh Dadoda 08/20/2025

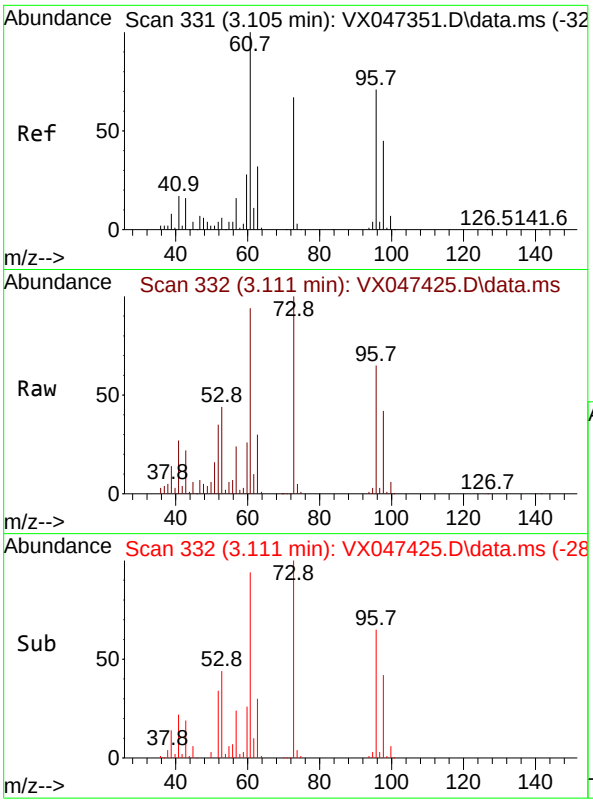


#20
Methylene Chloride
Concen: 46.911 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 84 Resp: 146215

Ion	Ratio	Lower	Upper
84	100		
49	127.7	100.1	150.1
51	39.3	29.5	44.3
86	64.6	51.8	77.8





#21
trans-1,2-Dichloroethene
Concen: 44.453 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 96 Resp: 13291

Ion	Ratio	Lower	Upper
96	100		
61	144.4	112.6	169.0
98	65.0	50.9	76.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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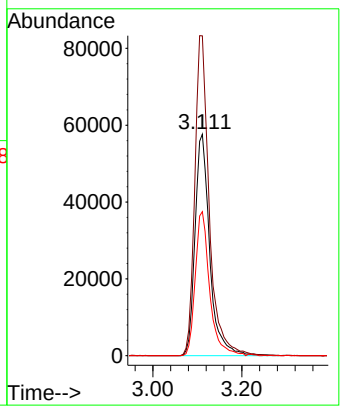
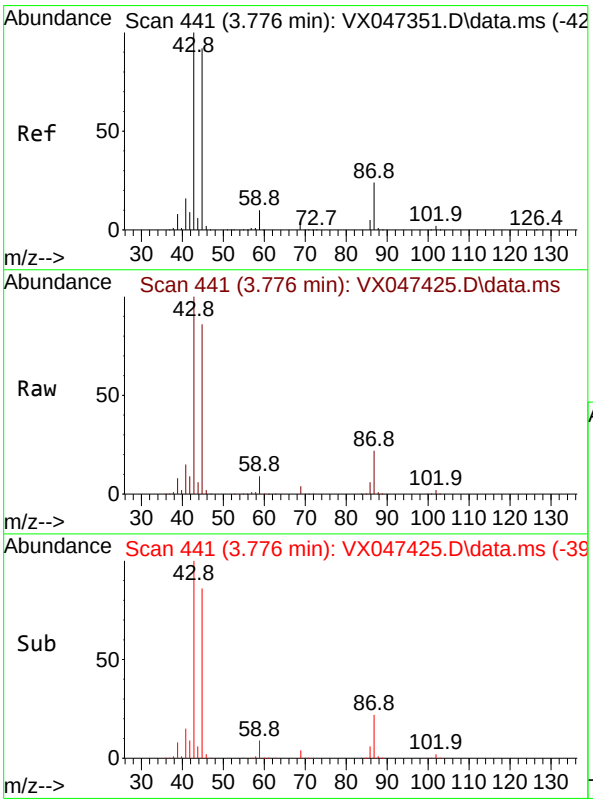
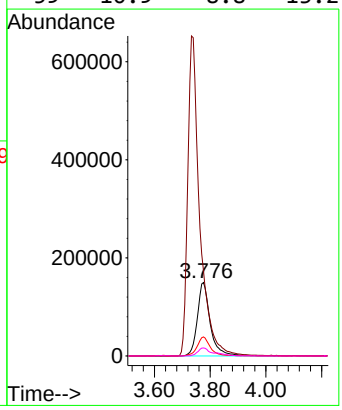


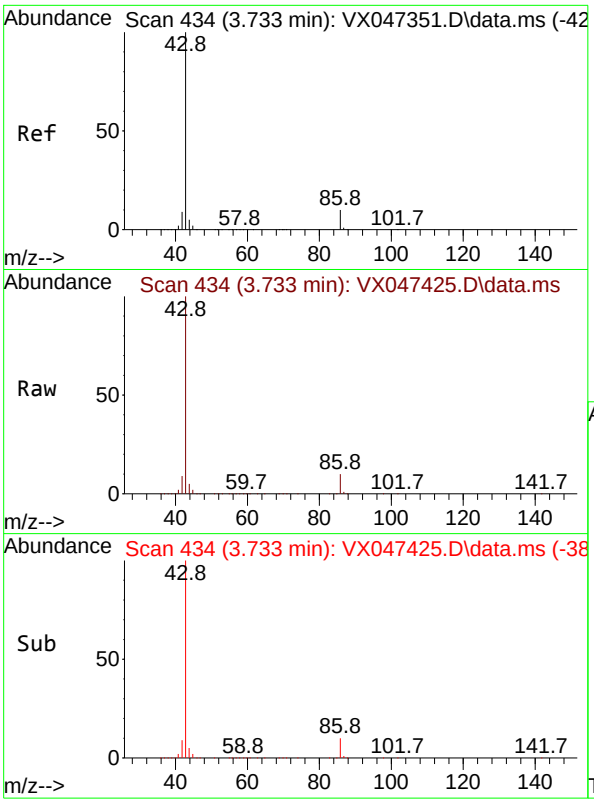


#22
Diisopropyl ether
Concen: 49.616 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 45 Resp: 479885

Ion	Ratio	Lower	Upper
45	100		
43	115.7	86.8	130.2
87	26.0	20.4	30.6
59	10.9	8.8	13.2

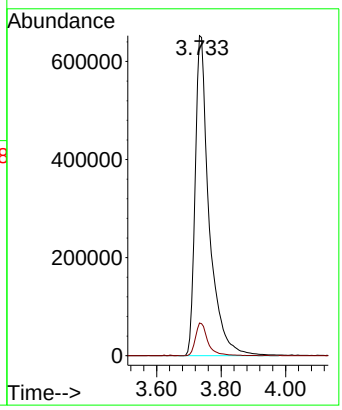




#23
Vinyl Acetate
Concen: 247.674 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 43 Resp: 196347

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.9	11.9



Instrument :
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ClientSampleId :
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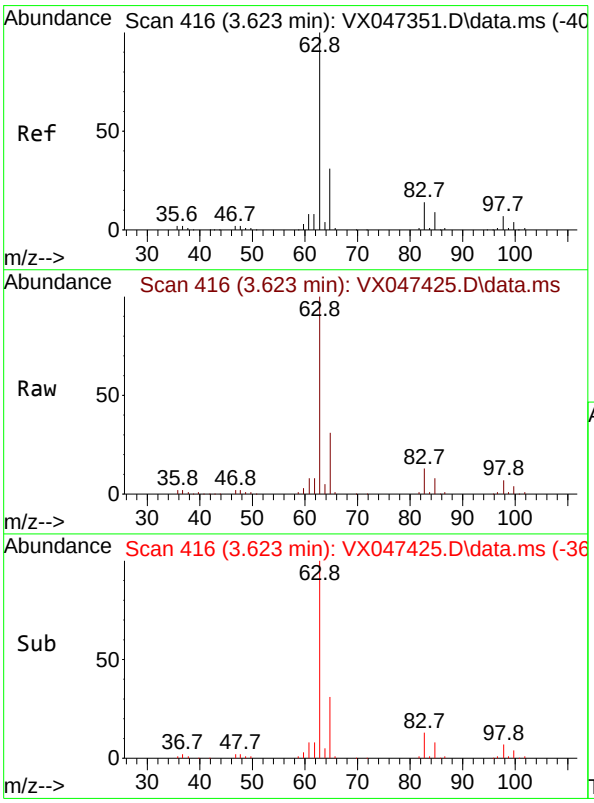
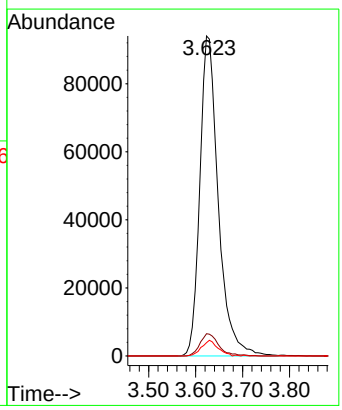
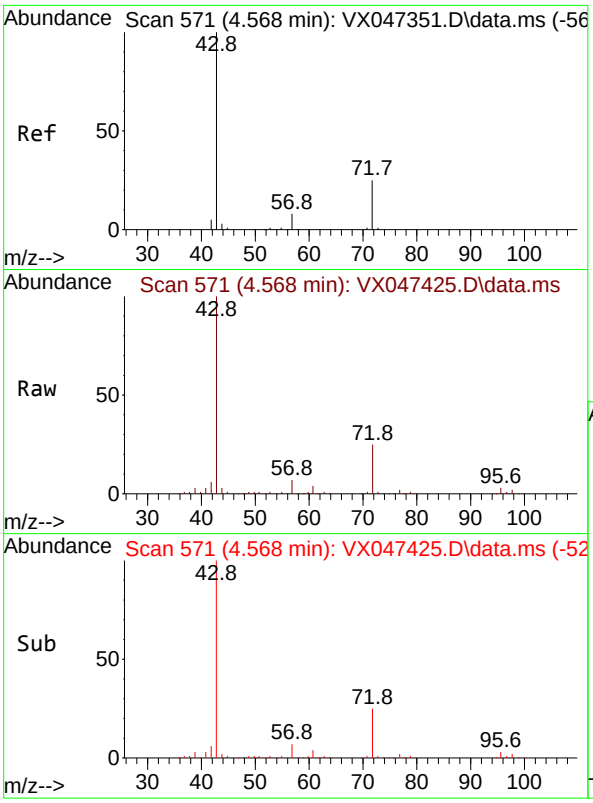


#24
1,1-Dichloroethane
Concen: 46.852 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 63 Resp: 256138

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.9
100	4.1	2.1	6.3

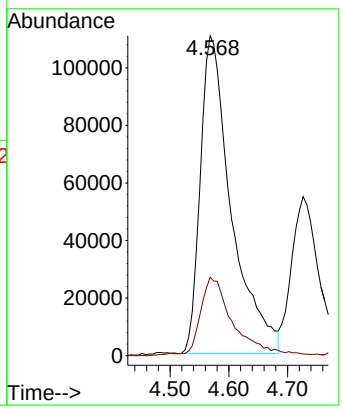




#25
2-Butanone
Concen: 263.558 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 43 Resp: 40629

Ion	Ratio	Lower	Upper
43	100		
72	24.1	19.8	29.8



Instrument :
MSVOA_X
ClientSampleId :
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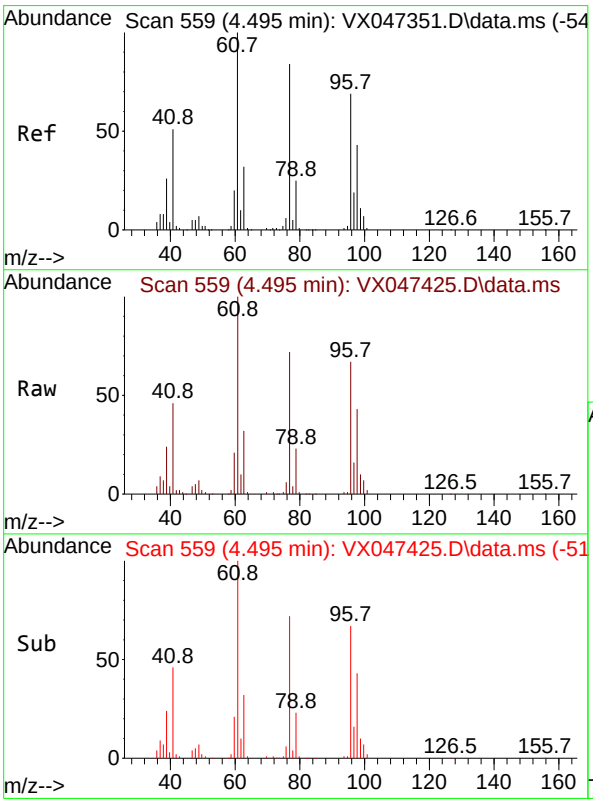
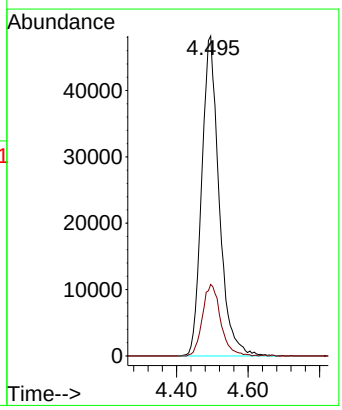
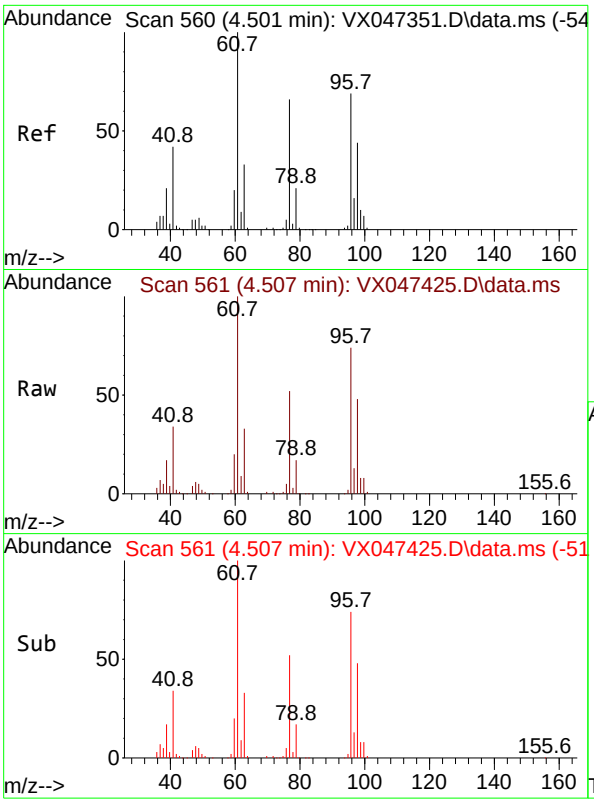


#26
2,2-Dichloropropane
Concen: 39.347 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 77 Resp: 162354

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.4	34.1

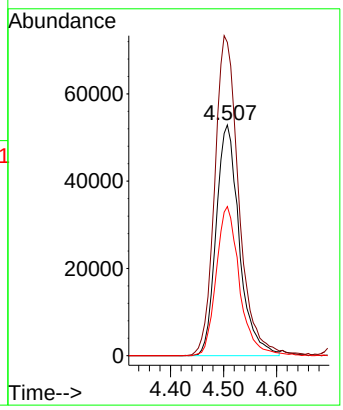




#27
cis-1,2-Dichloroethene
Concen: 46.090 ug/l
RT: 4.507 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 96 Resp: 16051

Ion	Ratio	Lower	Upper
96	100		
61	145.1	0.0	296.6
98	65.2	0.0	130.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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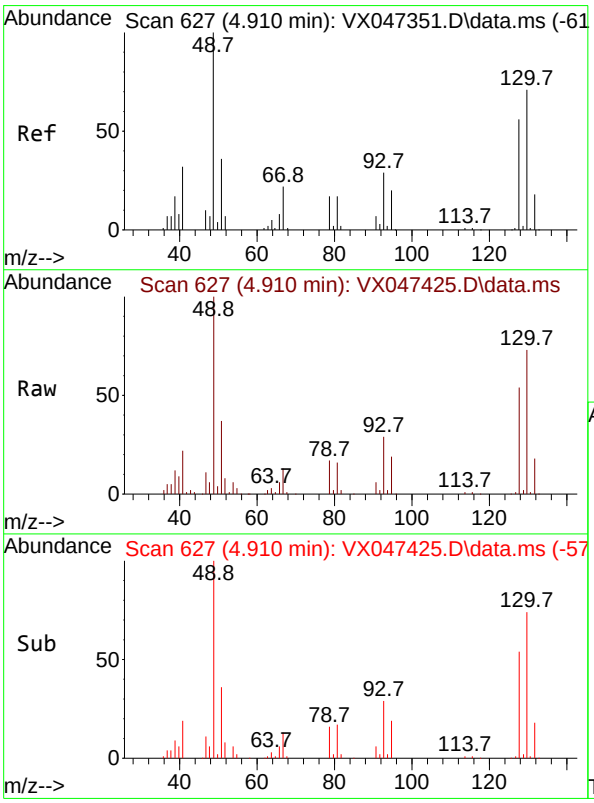
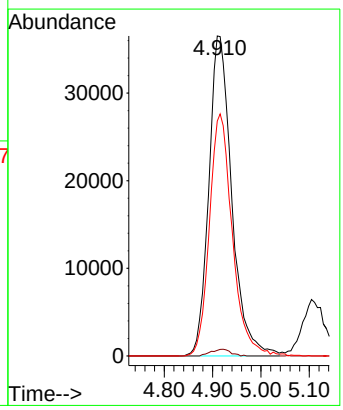
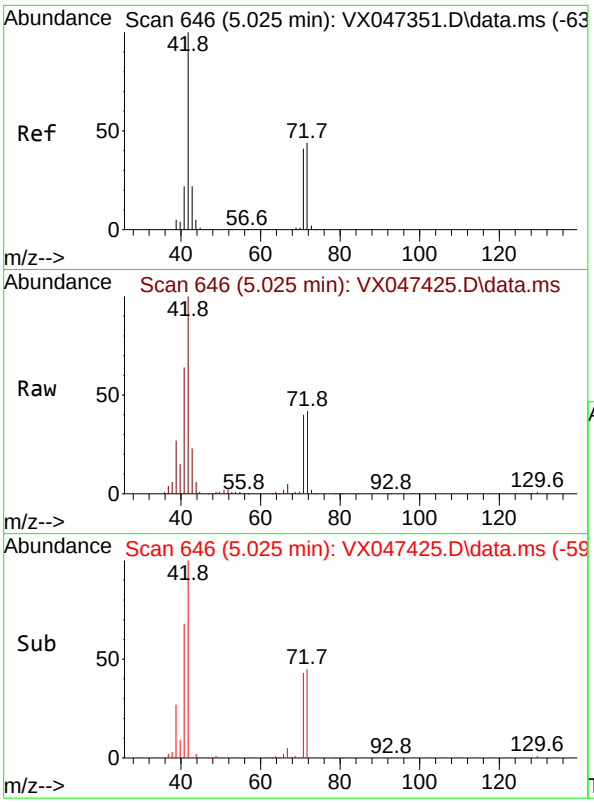


#28
Bromochloromethane
Concen: 52.943 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 49 Resp: 120442

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	75.6	59.8	89.6

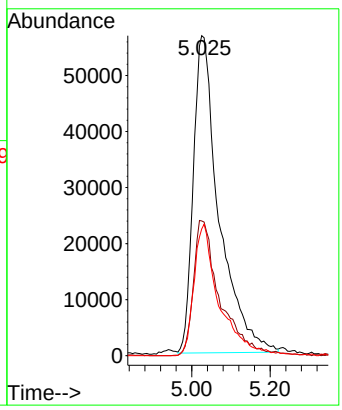




#29
Tetrahydrofuran
Concen: 259.873 ug/l
RT: 5.025 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 42 Resp: 25893

Ion	Ratio	Lower	Upper
42	100		
72	44.3	34.6	51.8
71	40.7	32.6	49.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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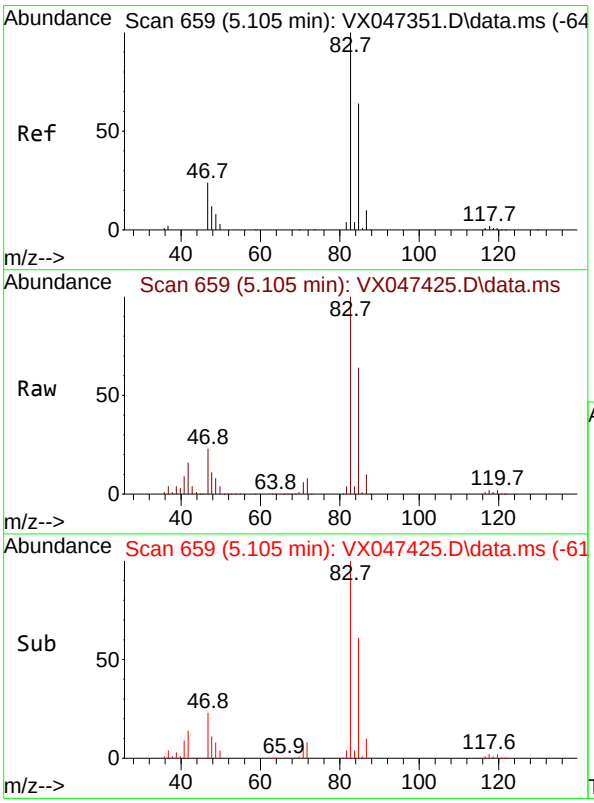
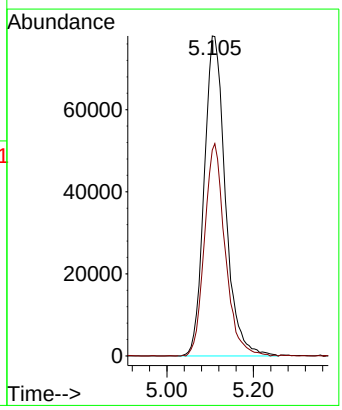
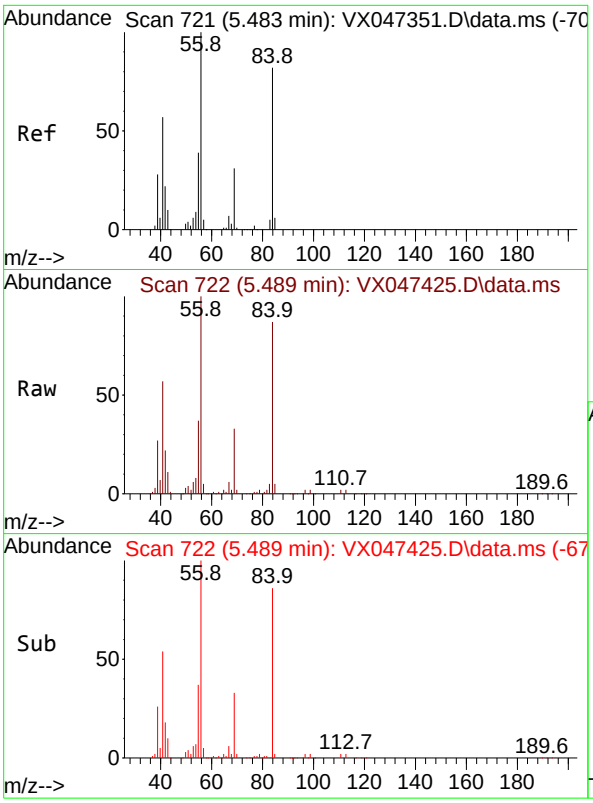


#30
Chloroform
Concen: 47.421 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 83 Resp: 264579

Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.2	76.8

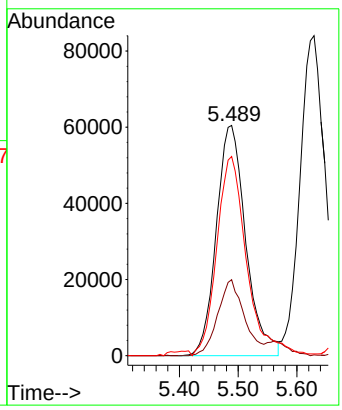




#31
Cyclohexane
Concen: 41.728 ug/l
RT: 5.489 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 56 Resp: 21029

Ion	Ratio	Lower	Upper
56	100		
69	32.6	24.3	36.5
84	84.9	65.3	97.9



Instrument :
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ClientSampleId :
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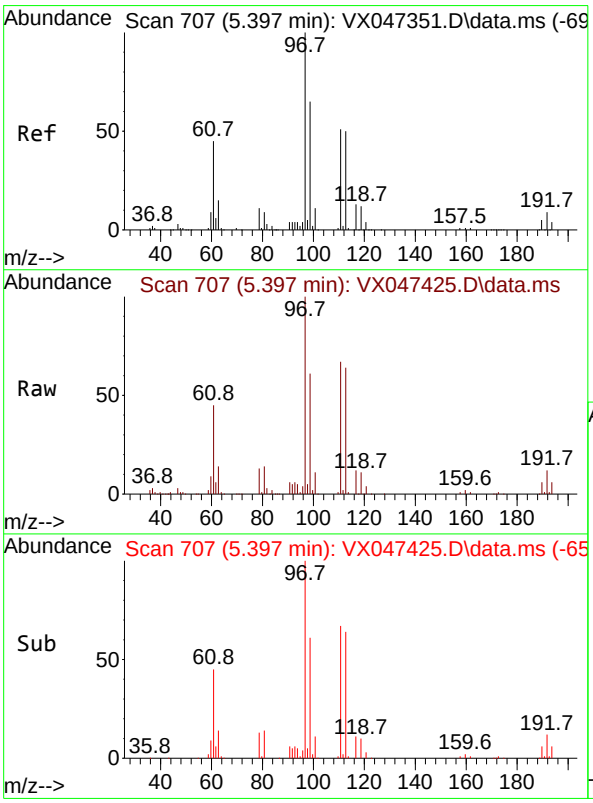
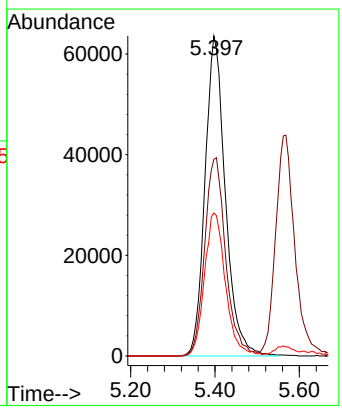
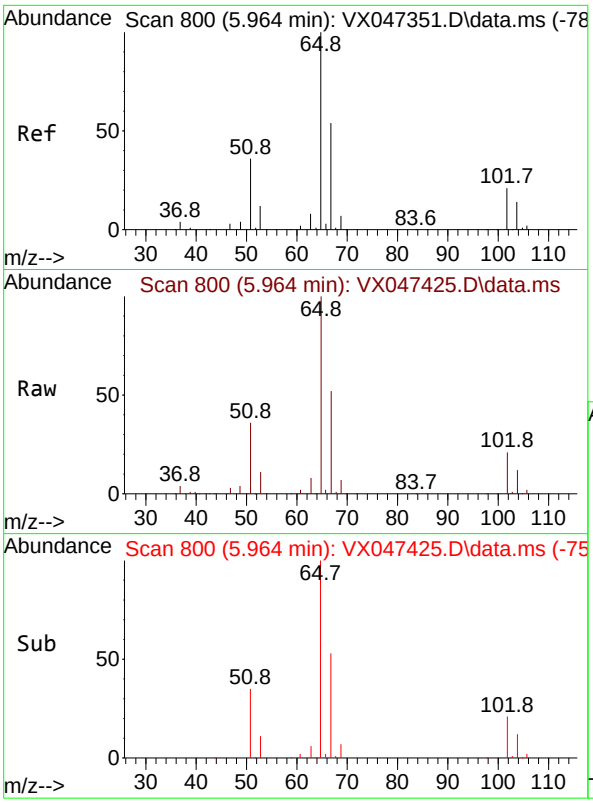


#32
1,1,1-Trichloroethane
Concen: 44.449 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 97 Resp: 213461

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.4	77.0
61	46.1	35.7	53.5

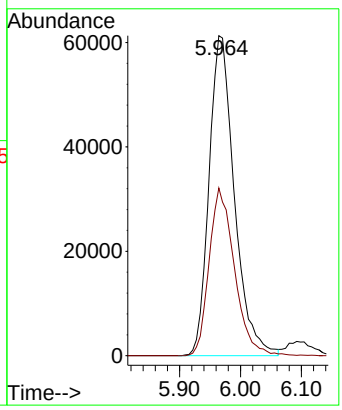




#33
1,2-Dichloroethane-d4
Concen: 56.605 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 65 Resp: 17725

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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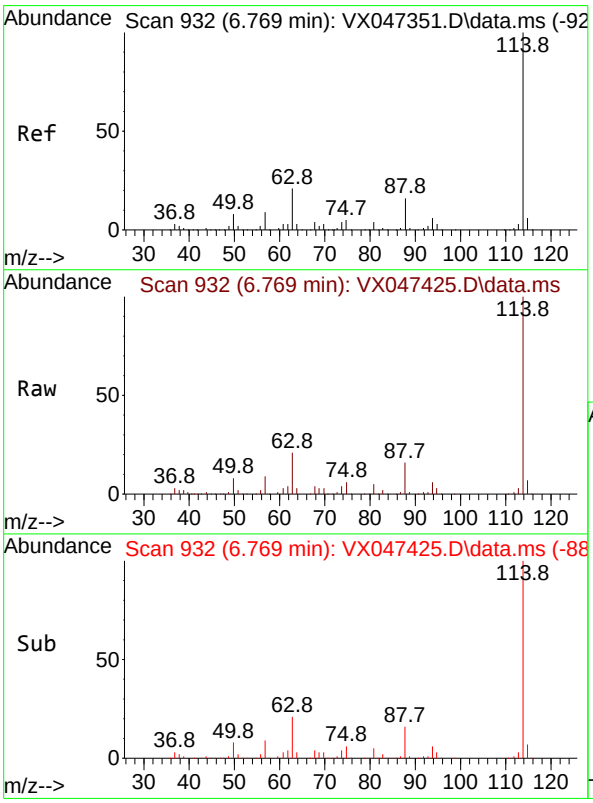
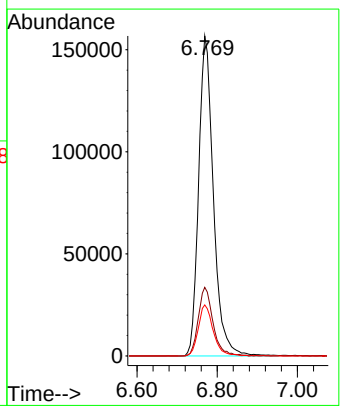
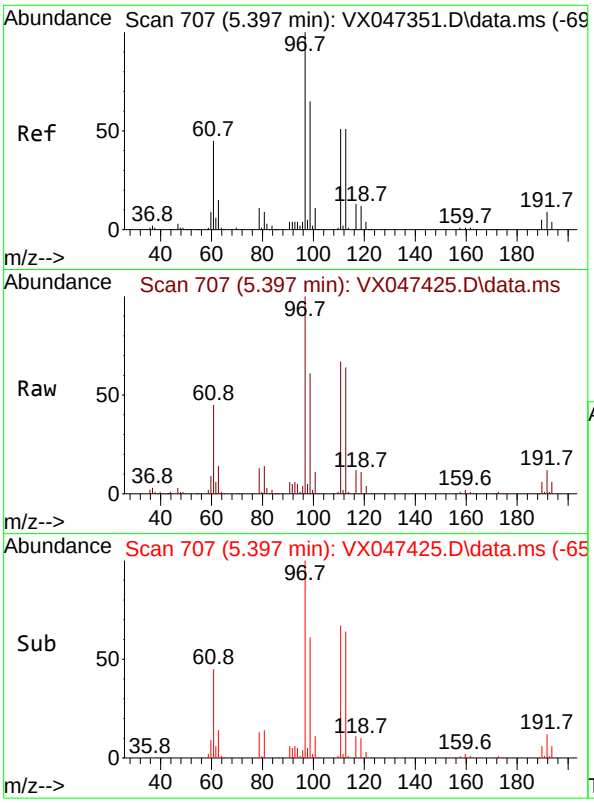


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:114 Resp: 400909

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	42.4
88	15.9	0.0	33.0

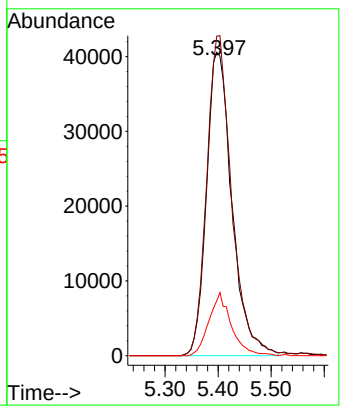




#35
Dibromofluoromethane
Concen: 51.916 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:113 Resp: 13508

Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.4	122.2
192	18.3	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
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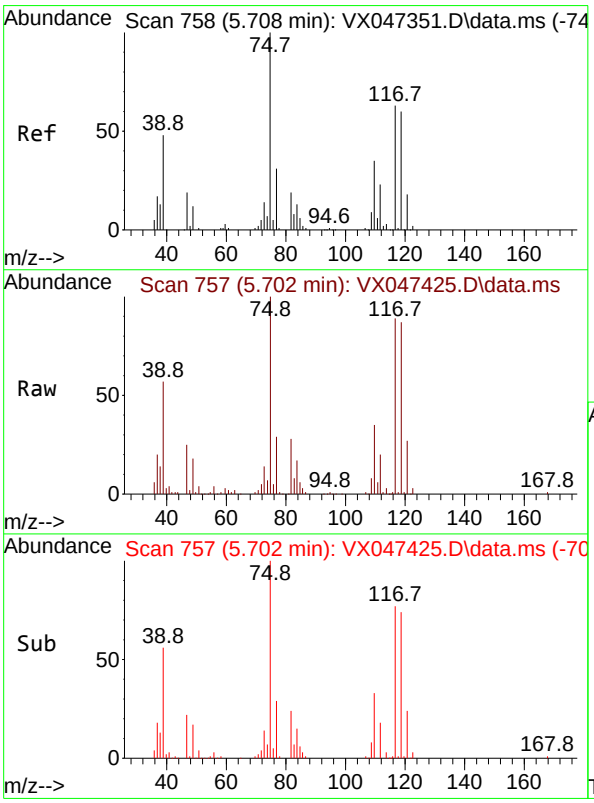
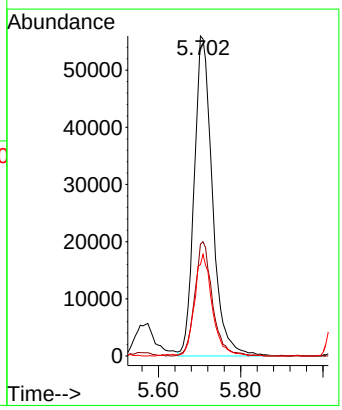
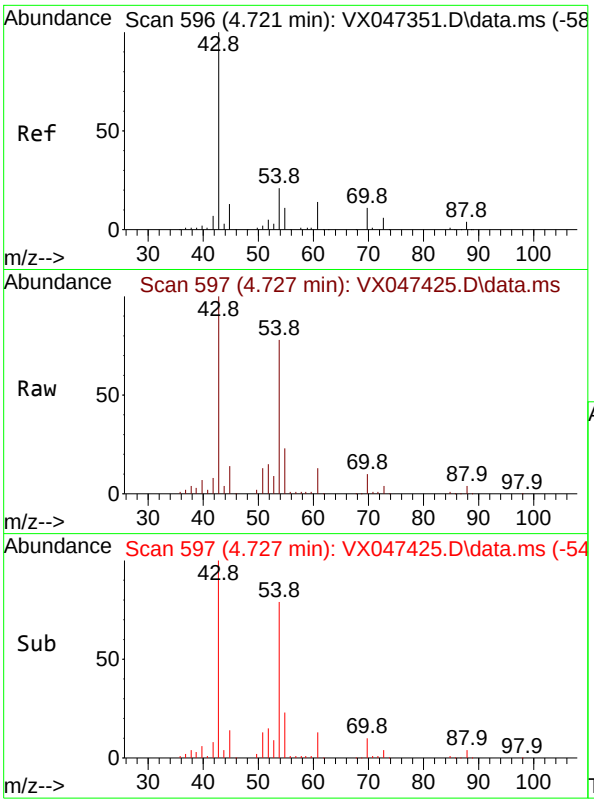


#36
1,1-Dichloropropene
Concen: 41.954 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 75 Resp: 172322

Ion	Ratio	Lower	Upper
75	100		
110	34.7	17.4	52.2
77	30.7	24.4	36.6





#37
Ethyl Acetate
Concen: 44.258 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 43 Resp: 18871

Ion	Ratio	Lower	Upper
43	100		
61	12.2	9.4	14.2
70	9.7	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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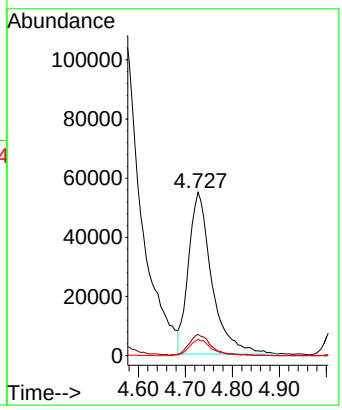
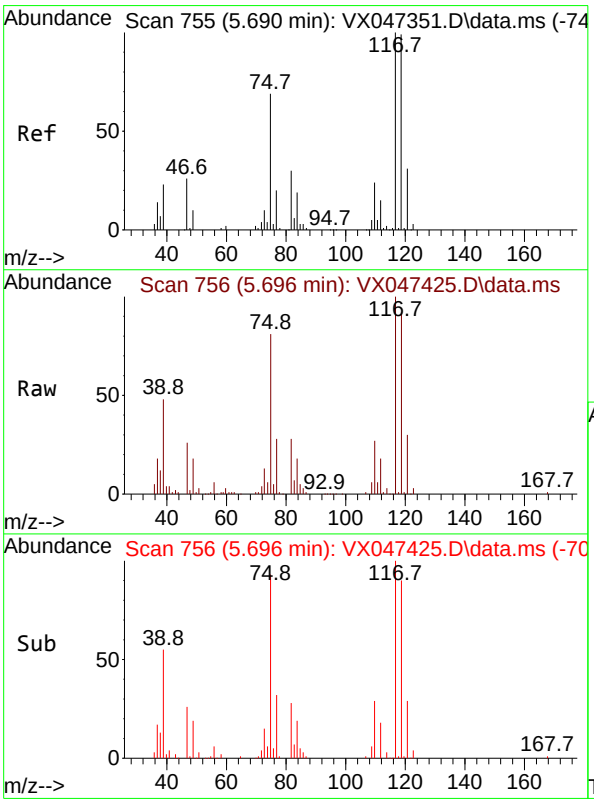
Supervised By :Mahesh Dadoda 08/20/2025

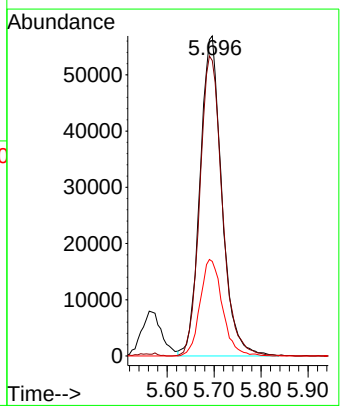


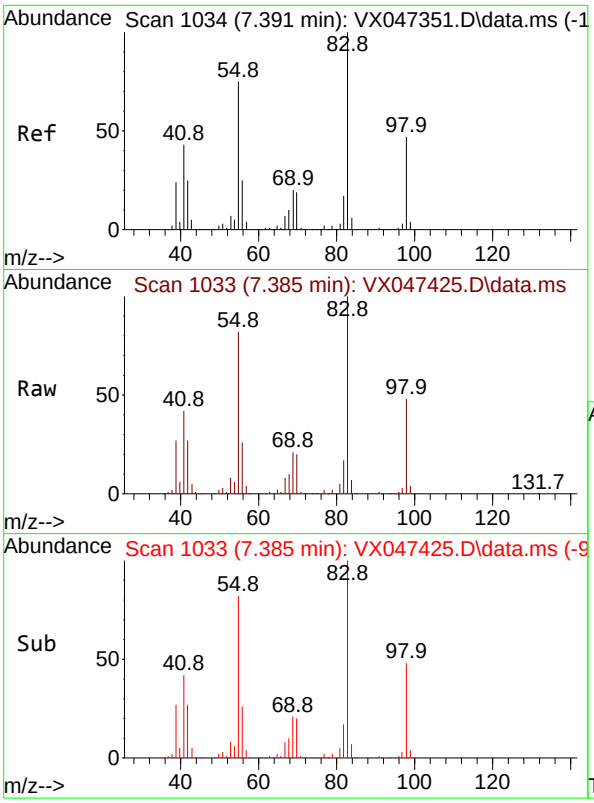


#38
Carbon Tetrachloride
Concen: 40.895 ug/l
RT: 5.696 min Scan# 756
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:117 Resp: 183554

Ion	Ratio	Lower	Upper
117	100		
119	92.1	78.5	117.7
121	29.6	24.7	37.1

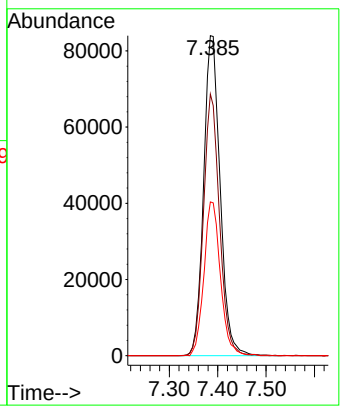




#39
Methylcyclohexane
Concen: 38.819 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 83 Resp: 19888

Ion	Ratio	Lower	Upper
83	100		
55	81.8	60.0	90.0
98	48.1	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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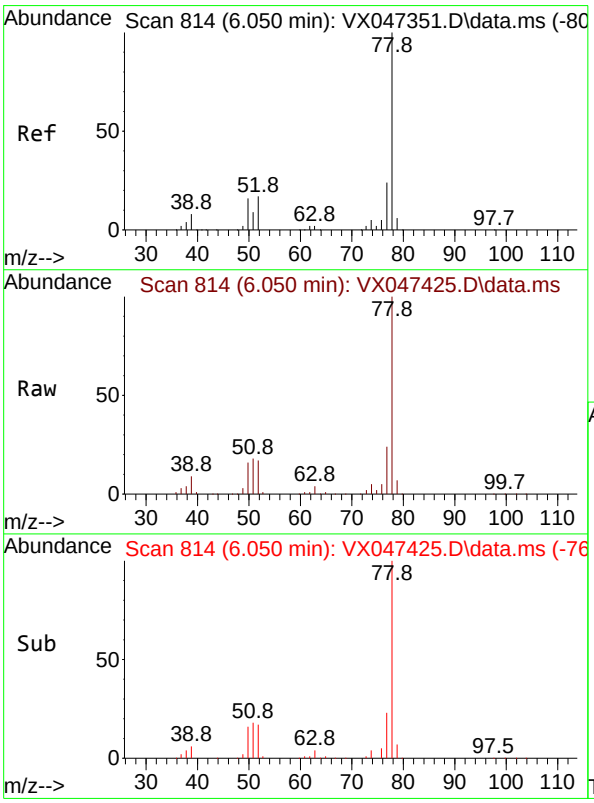
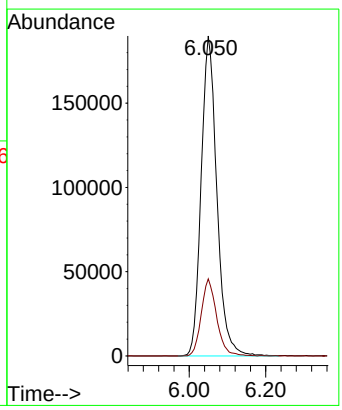
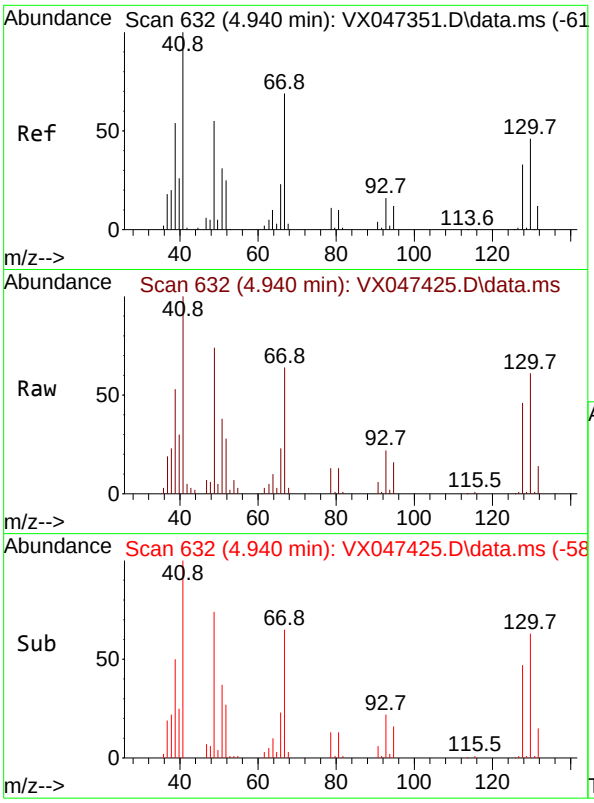


#40
Benzene
Concen: 43.949 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 78 Resp: 540313

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.4

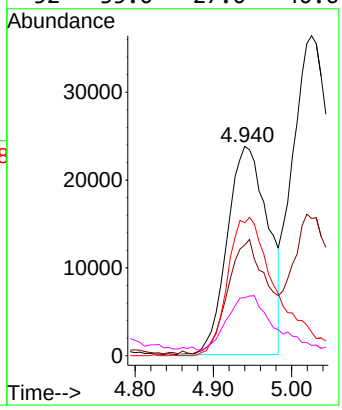




#41
Methacrylonitrile
Concen: 47.606 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 41 Resp: 8560

Ion	Ratio	Lower	Upper
41	100		
39	52.5	45.4	68.2
67	83.2	64.0	96.0
52	35.0	27.0	40.6



Instrument :
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ClientSampleId :
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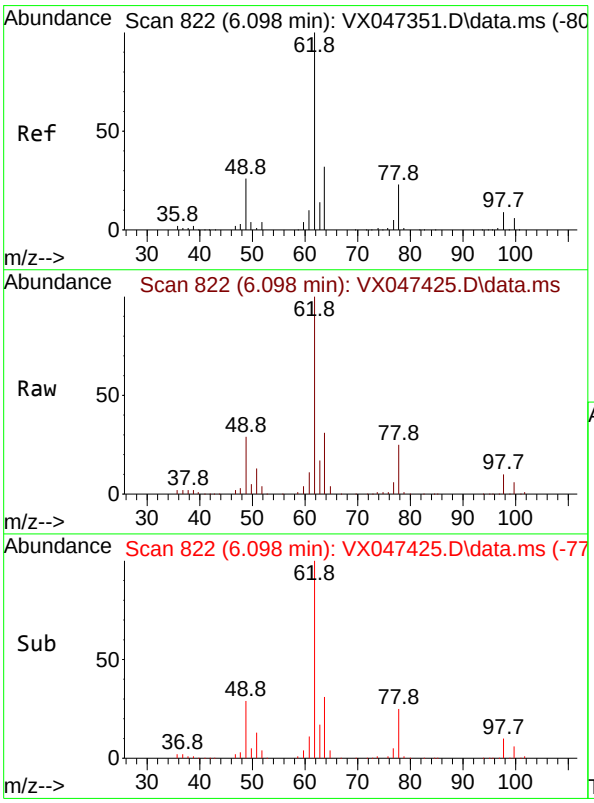
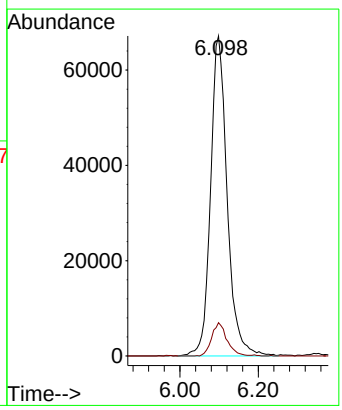
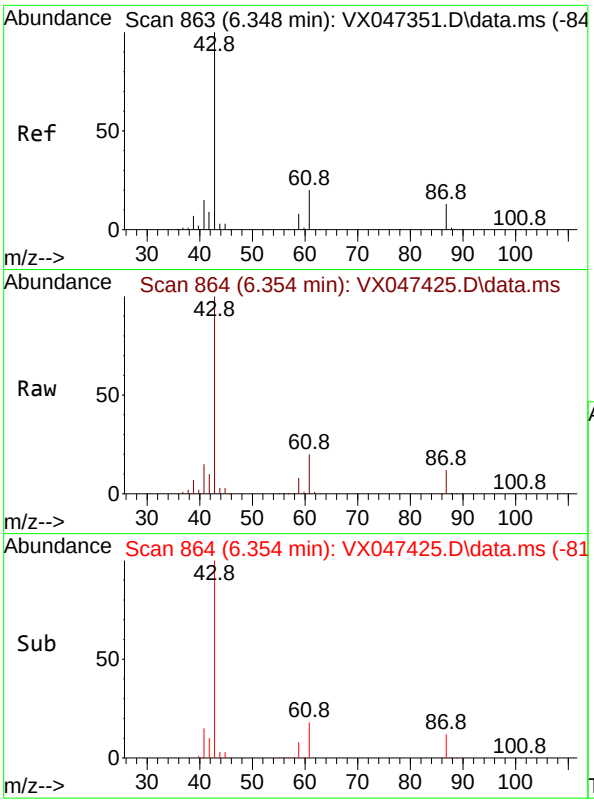


#42
1,2-Dichloroethane
Concen: 45.376 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 62 Resp: 197600

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.0

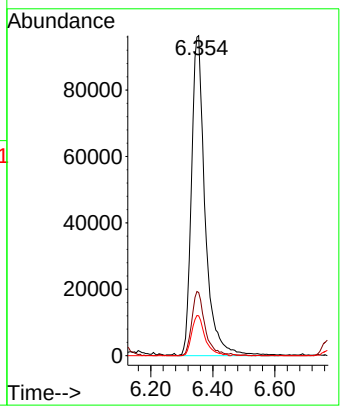




#43
Isopropyl Acetate
Concen: 47.841 ug/l
RT: 6.354 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 43 Resp: 29306

Ion	Ratio	Lower	Upper
43	100		
61	19.7	15.4	23.0
87	12.3	10.2	15.4



Instrument :
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ClientSampleId :
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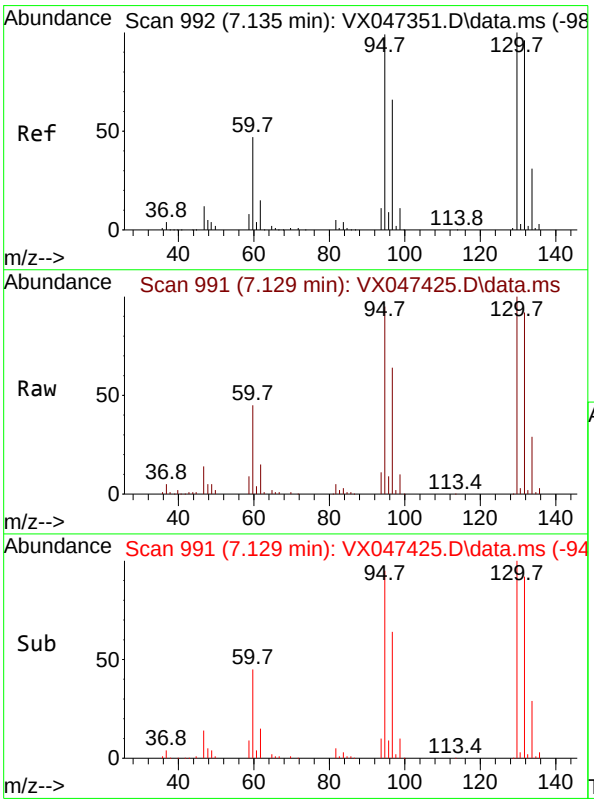
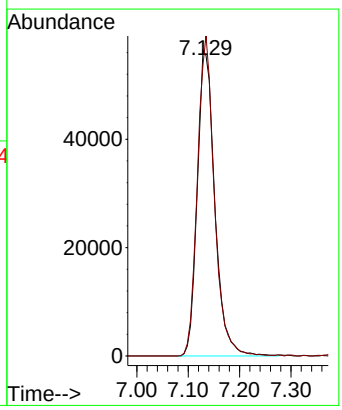
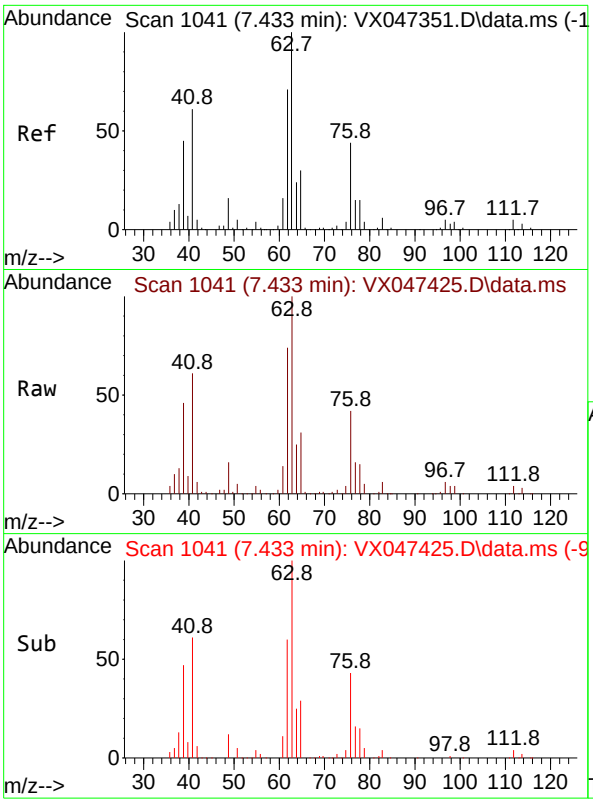


#44
Trichloroethene
Concen: 42.559 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:130 Resp: 133973

Ion	Ratio	Lower	Upper
130	100		
95	95.4	0.0	198.6

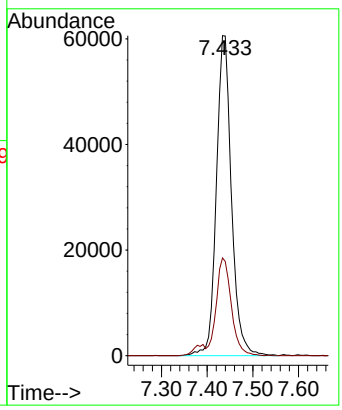




#45
1,2-Dichloropropane
Concen: 45.077 ug/l
RT: 7.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 63 Resp: 13883

Ion	Ratio	Lower	Upper
63	100		
65	30.5	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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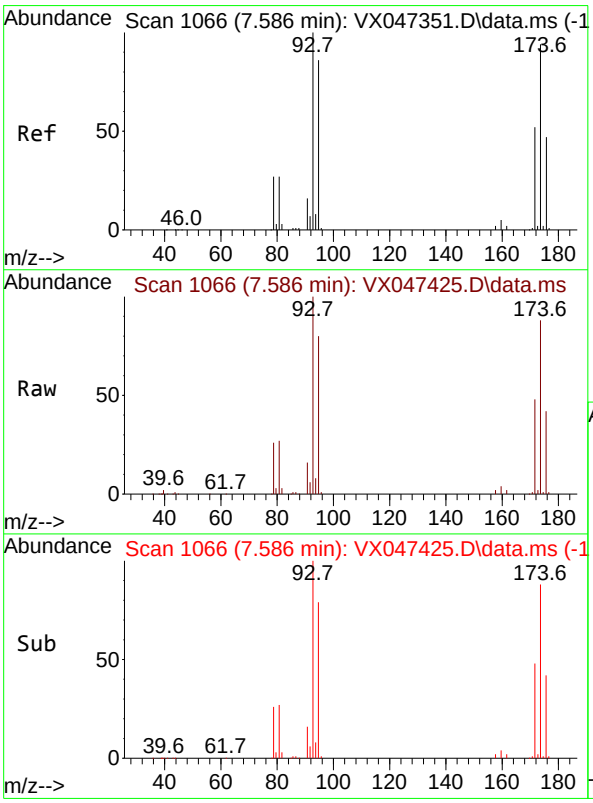
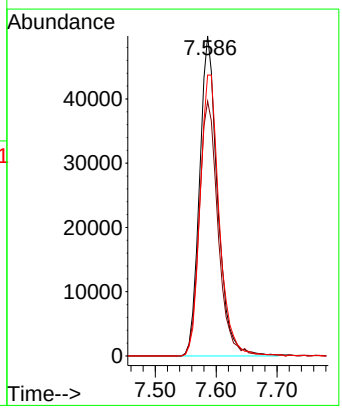
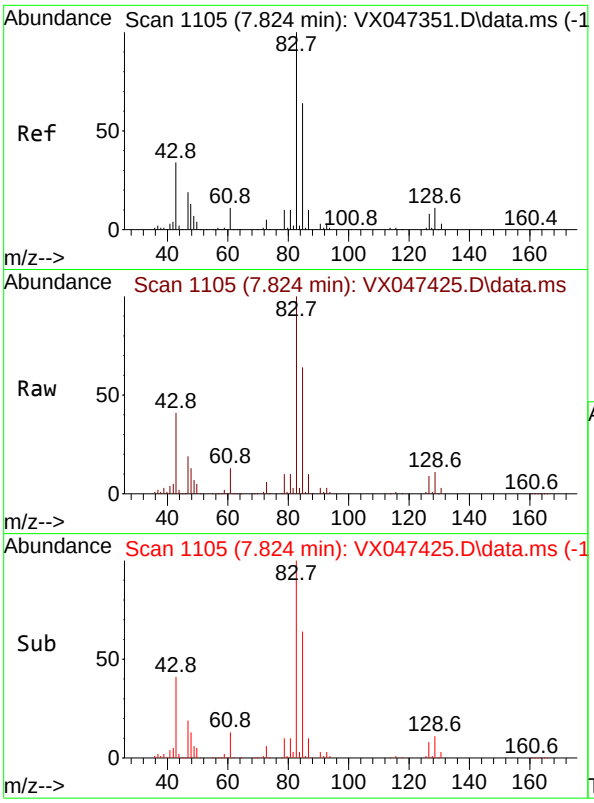


#46
Dibromomethane
Concen: 45.878 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 93 Resp: 102584

Ion	Ratio	Lower	Upper
93	100		
95	83.0	68.0	102.0
174	93.1	75.8	113.6

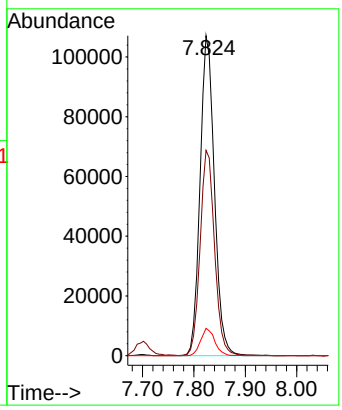




#47
Bromodichloromethane
Concen: 44.775 ug/l
RT: 7.824 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 83 Resp: 20755

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.0	76.6
127	8.5	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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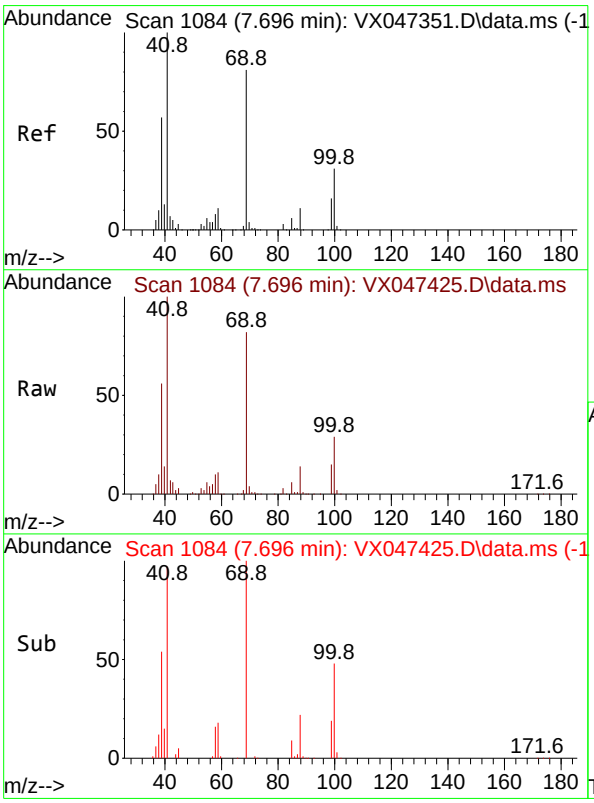
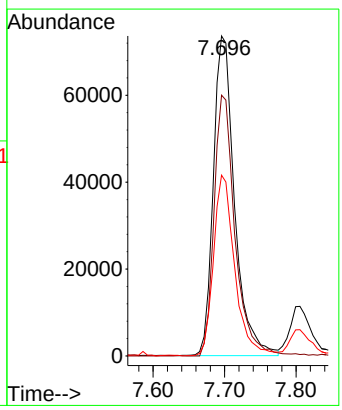
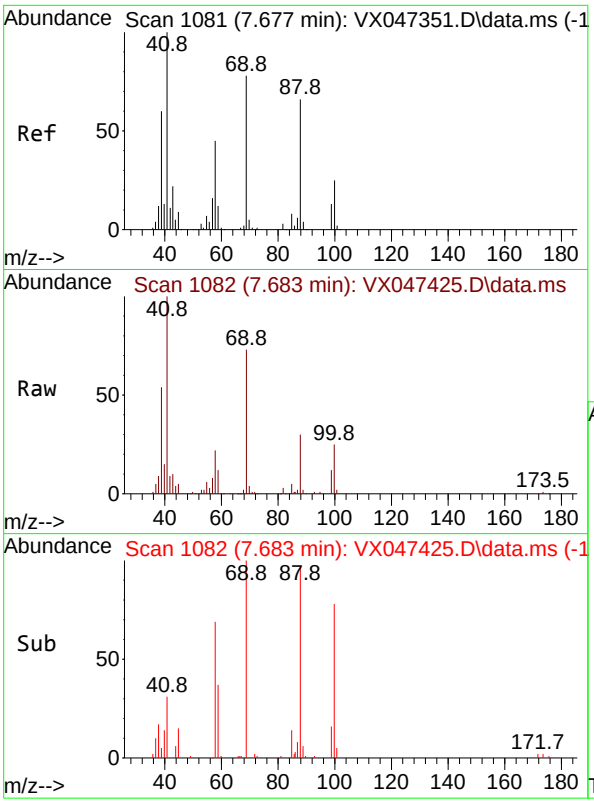


#48
Methyl methacrylate
Concen: 47.741 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 41 Resp: 151800

Ion	Ratio	Lower	Upper
41	100		
69	81.0	65.0	97.4
39	56.8	45.7	68.5

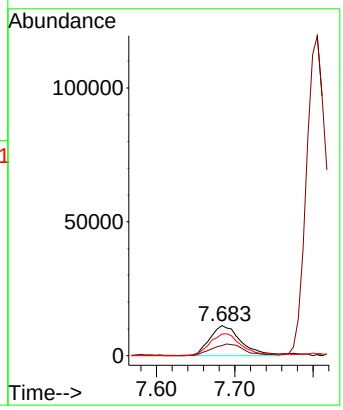




#49
1,4-Dioxane
Concen: 1010.025 ug/l
RT: 7.683 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 88 Resp: 3122

Ion	Ratio	Lower	Upper
88	100		
43	39.6	32.4	48.6
58	73.3	56.9	85.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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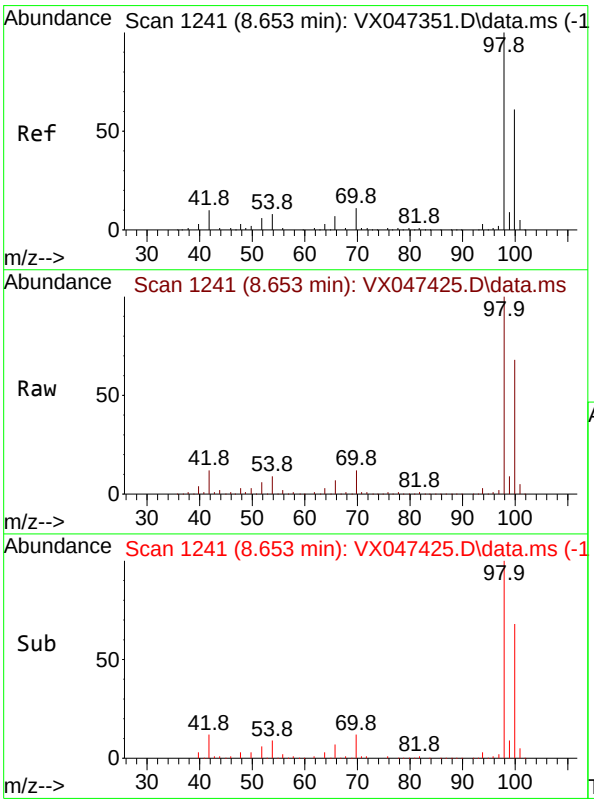
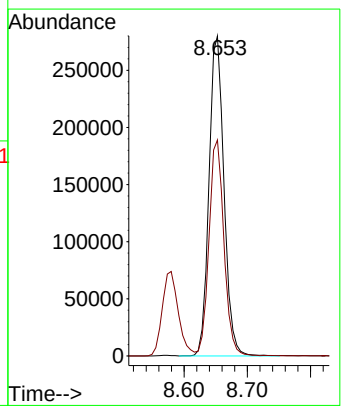
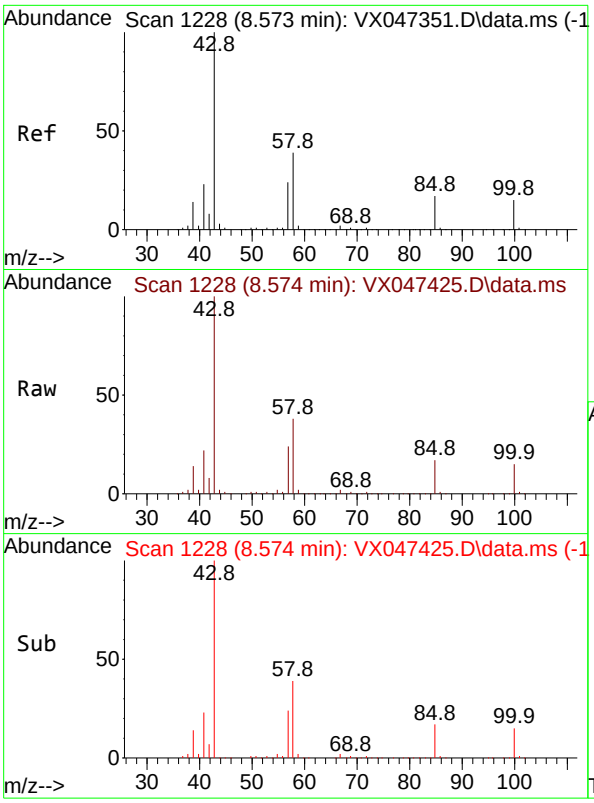


#50
Toluene-d8
Concen: 49.526 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 98 Resp: 460594

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.9	80.9

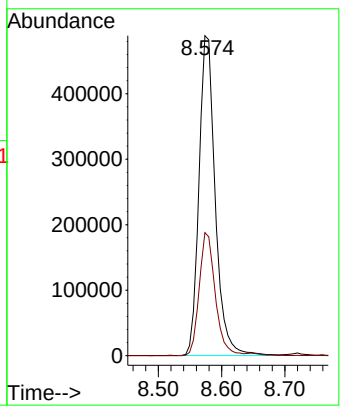




#51
4-Methyl-2-Pentanone
Concen: 248.529 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 43 Resp: 87608

Ion	Ratio	Lower	Upper
43	100		
58	38.0	31.2	46.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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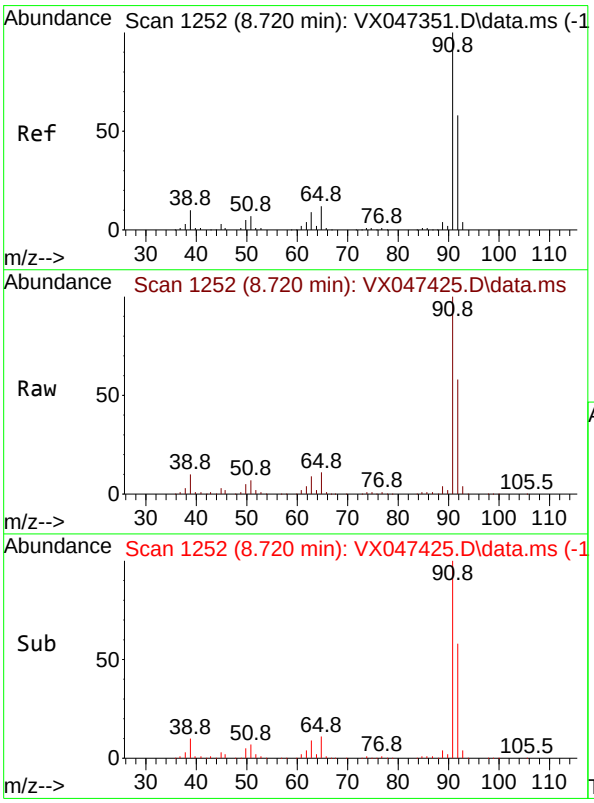
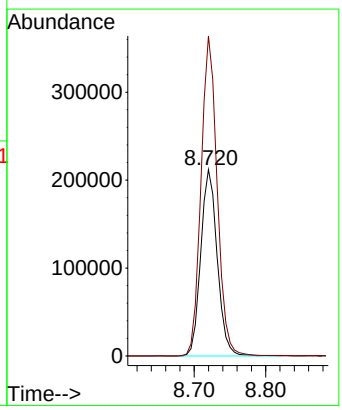
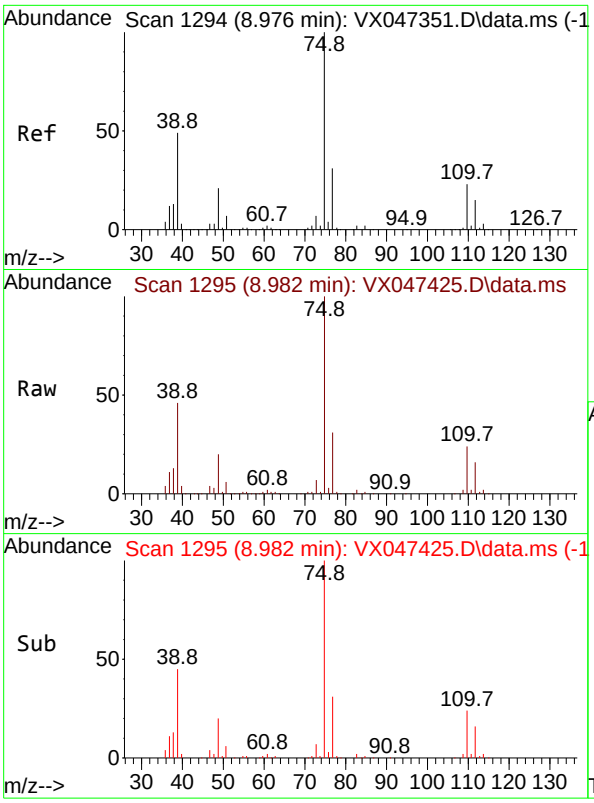


#52
Toluene
Concen: 44.591 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 92 Resp: 338753

Ion	Ratio	Lower	Upper
92	100		
91	168.6	136.3	204.5

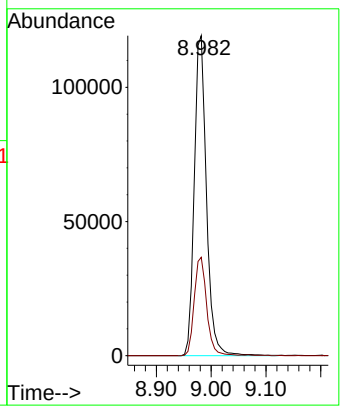




#53
t-1,3-Dichloropropene
Concen: 45.727 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 75 Resp: 18499

Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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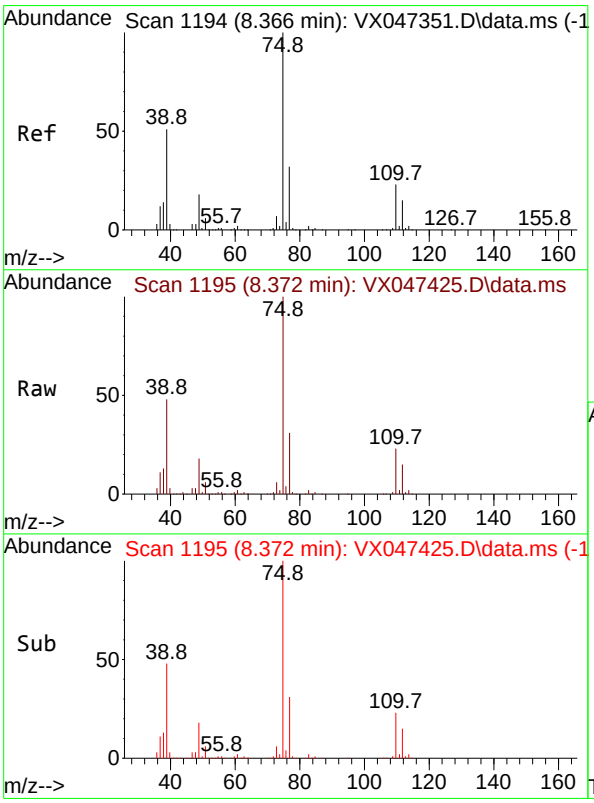
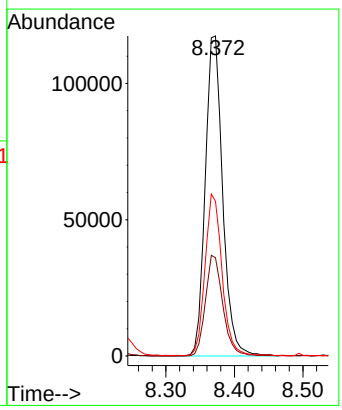
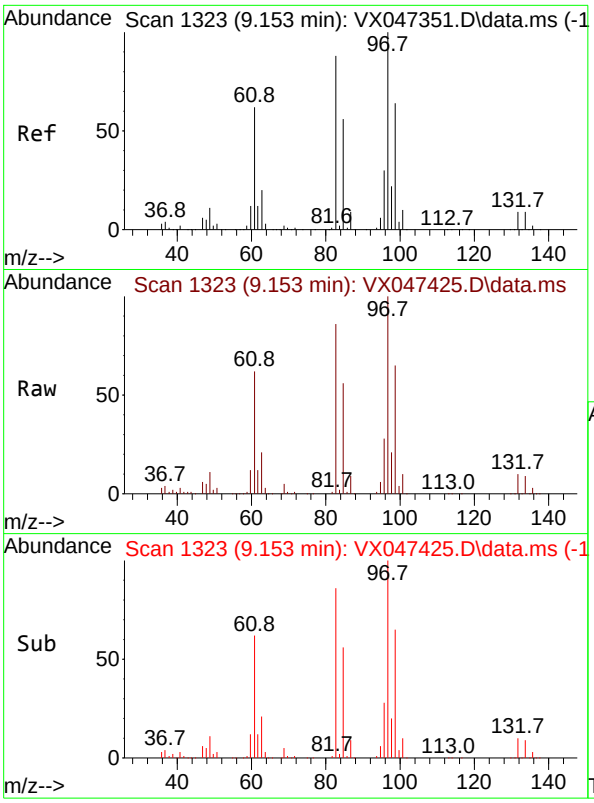


#54
cis-1,3-Dichloropropene
Concen: 45.391 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 75 Resp: 207853

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.6	38.4
39	48.2	40.9	61.3

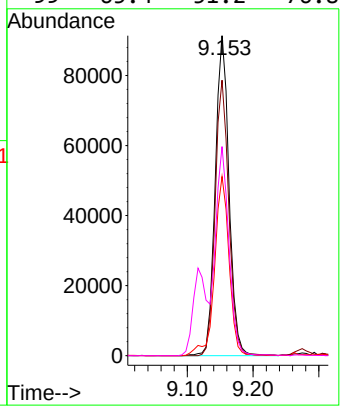




#55
1,1,2-Trichloroethane
Concen: 46.352 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 97 Resp: 13369

Ion	Ratio	Lower	Upper
97	100		
83	86.1	70.6	106.0
85	56.0	44.7	67.1
99	65.4	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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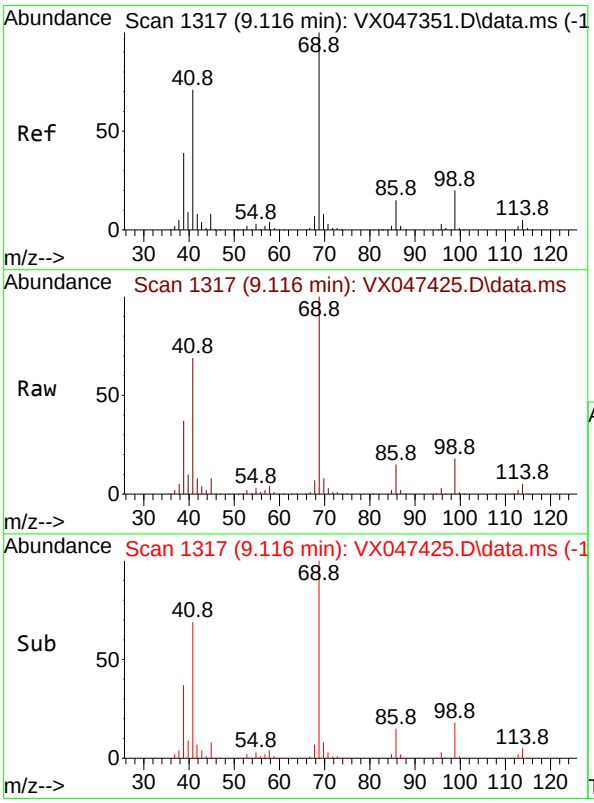
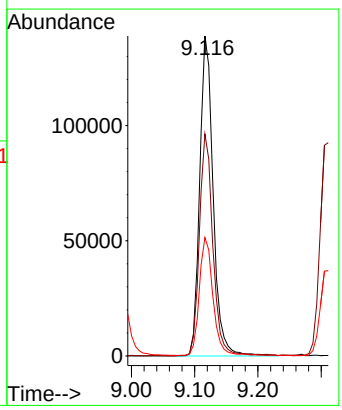
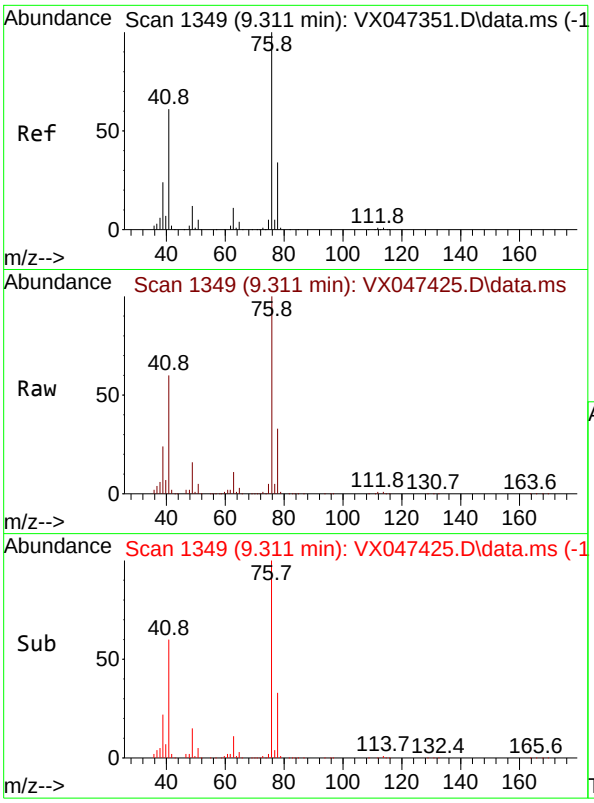


#56
Ethyl methacrylate
Concen: 48.508 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 69 Resp: 206281

Ion	Ratio	Lower	Upper
69	100		
41	69.7	55.3	82.9
39	37.9	30.2	45.2

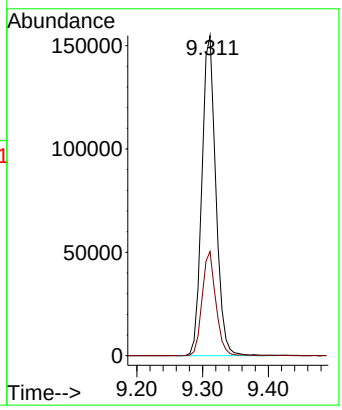




#57
1,3-Dichloropropane
Concen: 46.532 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 76 Resp: 22870

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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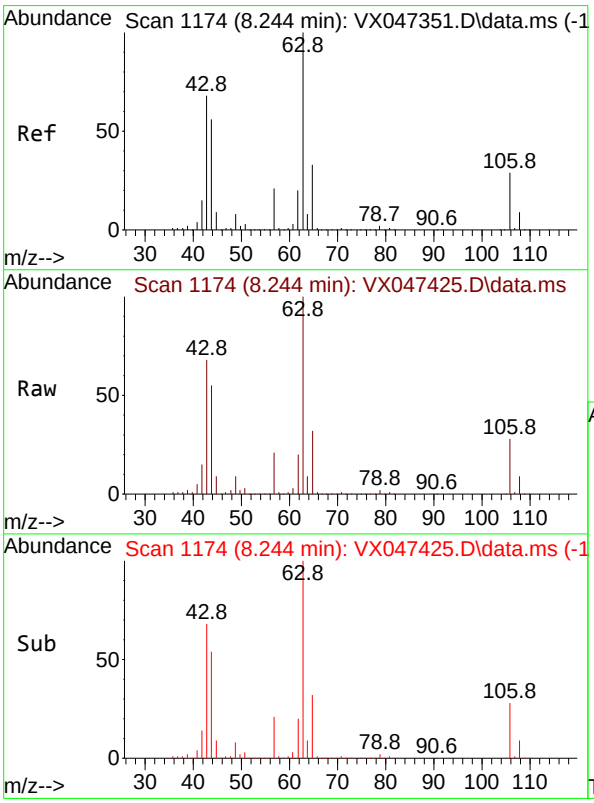
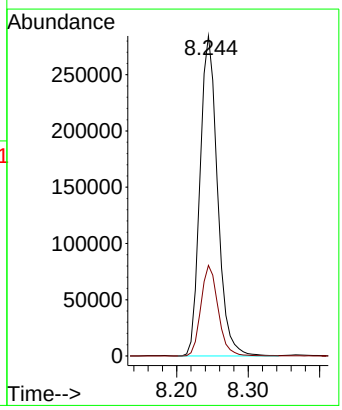
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

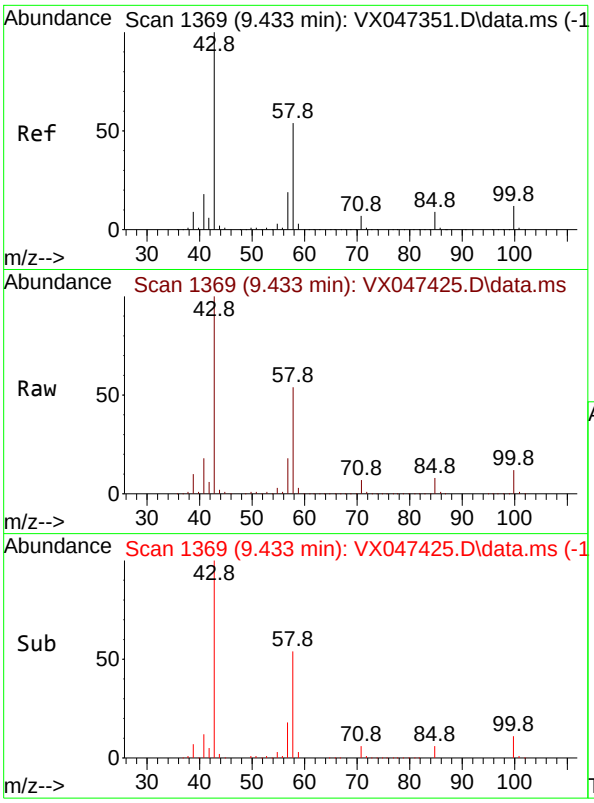


#58
2-Chloroethyl Vinyl ether
Concen: 238.311 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 63 Resp: 483102

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.8	34.2

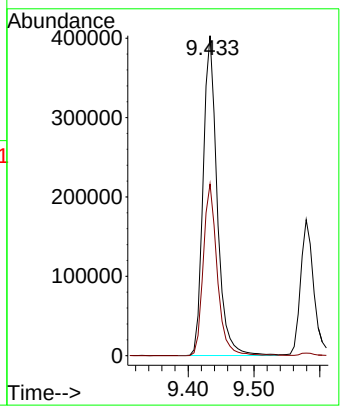




#59
2-Hexanone
Concen: 245.394 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 43 Resp: 59836

Ion	Ratio	Lower	Upper
43	100		
58	53.6	26.9	80.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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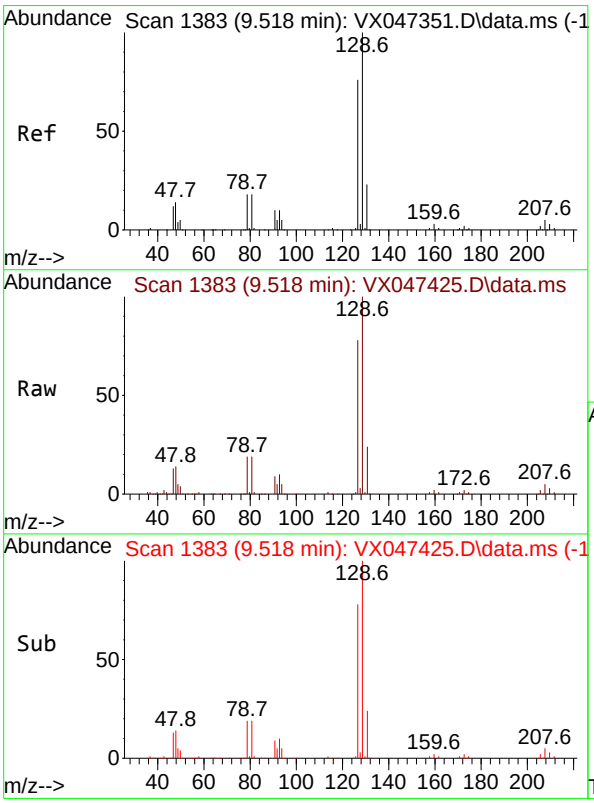
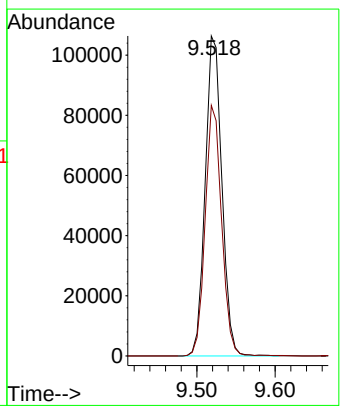
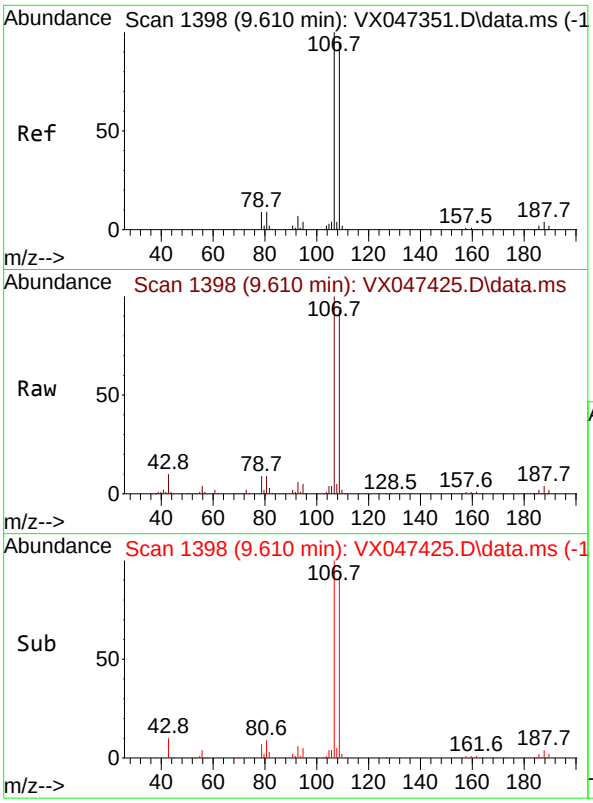


#60
Dibromochloromethane
Concen: 45.703 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:129 Resp: 156660

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.9	116.6





#61
1,2-Dibromoethane
Concen: 45.823 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:107 Resp: 13629

Ion	Ratio	Lower	Upper
107	100		
109	93.9	76.2	114.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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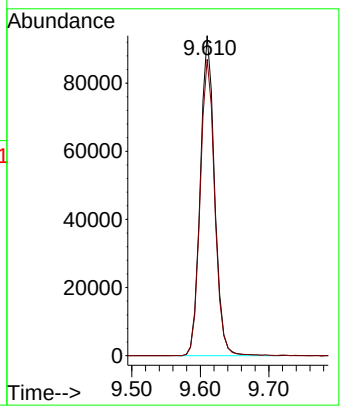
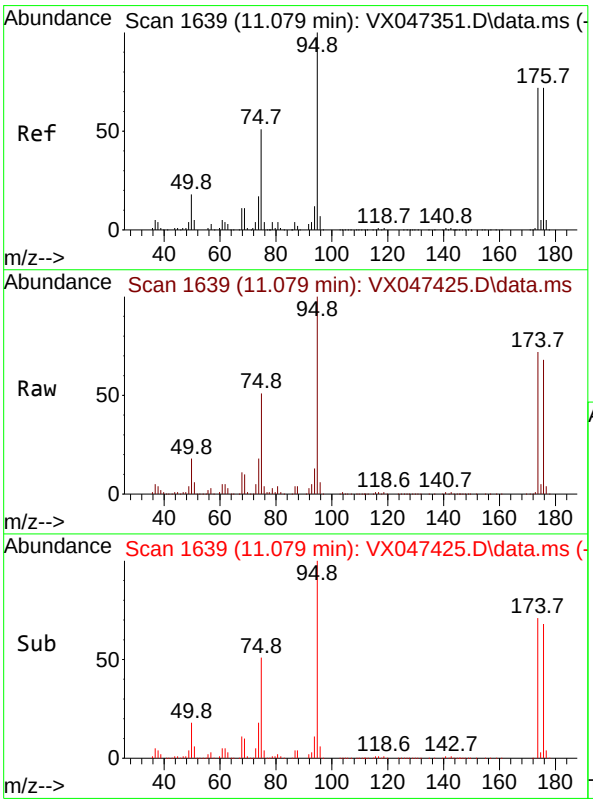
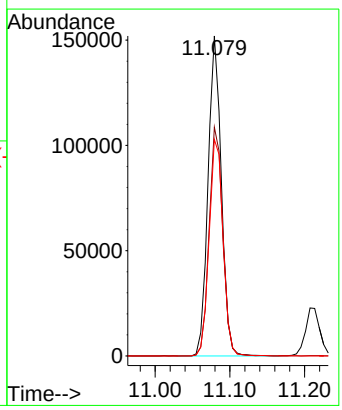


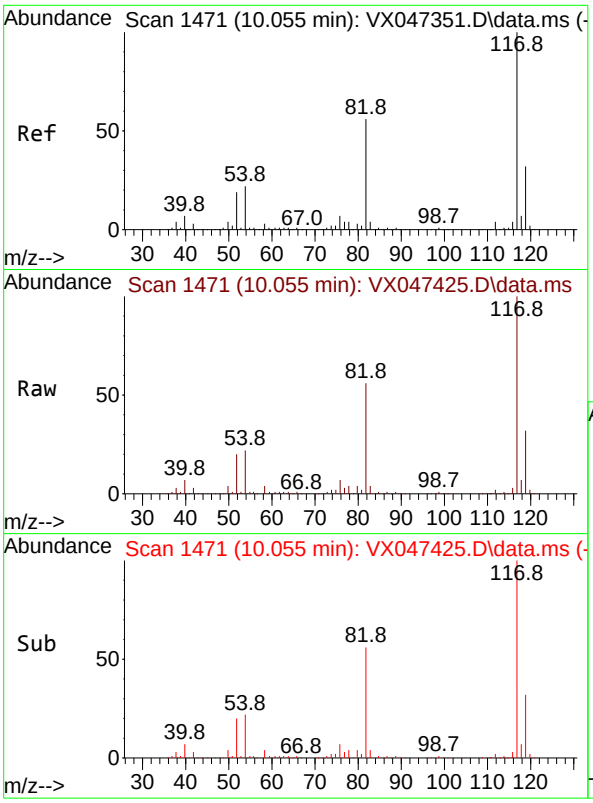


#62
4-Bromofluorobenzene
Concen: 54.662 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 95 Resp: 187594

Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	148.0
176	71.0	0.0	145.4

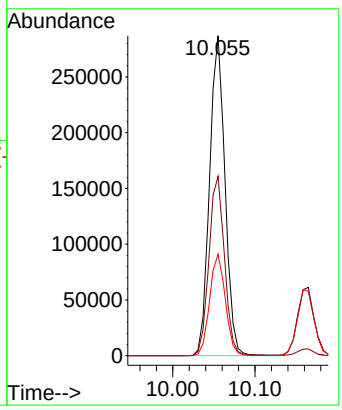




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:117 Resp: 37415

Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.0	67.4
119	31.7	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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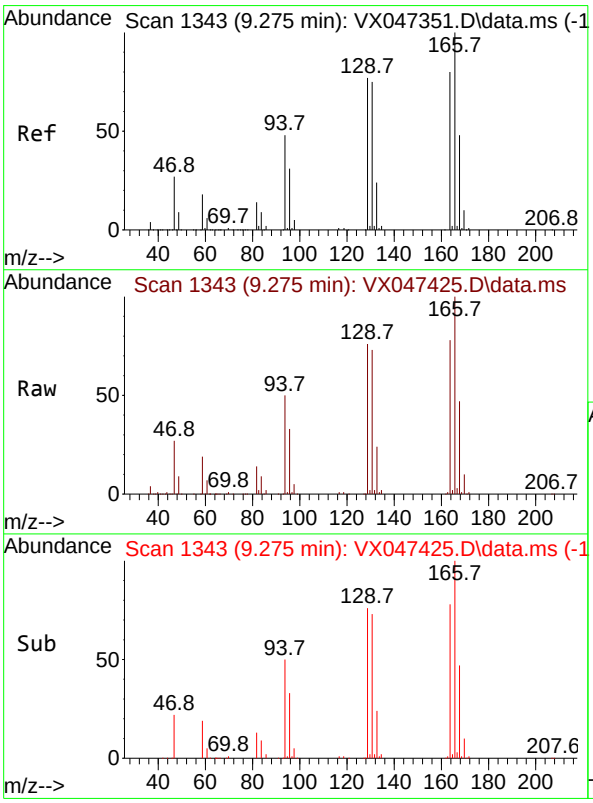
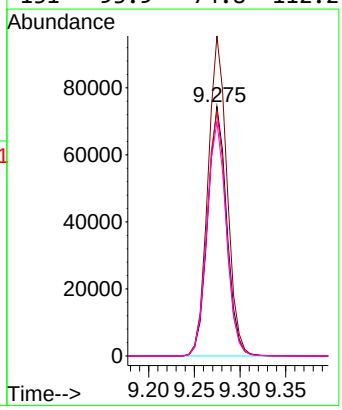
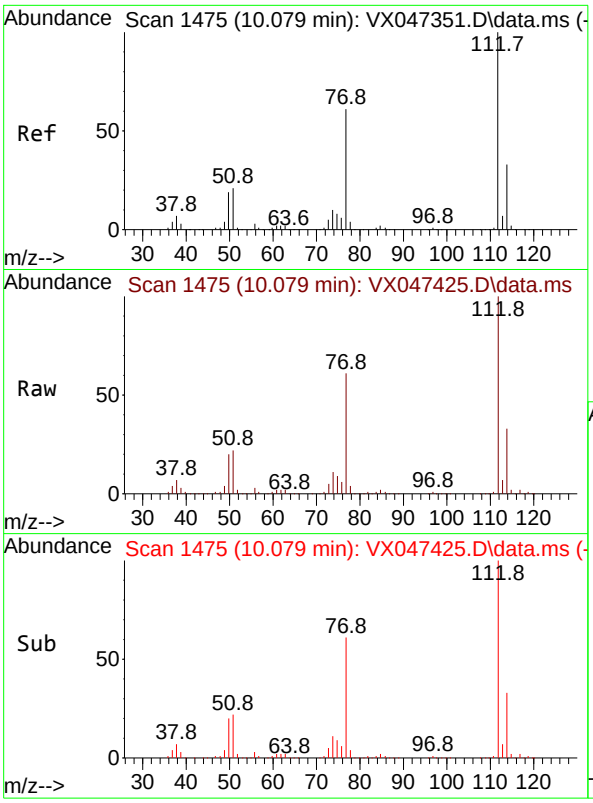


#64
Tetrachloroethene
Concen: 39.799 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:164 Resp: 107708

Ion	Ratio	Lower	Upper
164	100		
166	128.3	100.3	150.5
129	97.9	77.7	116.5
131	93.9	74.8	112.2

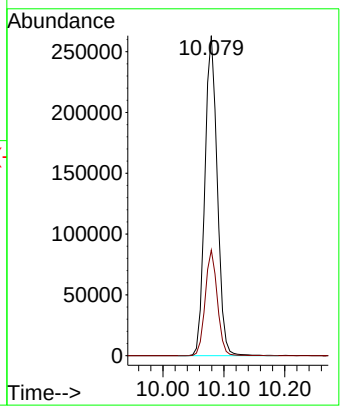




#65
Chlorobenzene
Concen: 41.820 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:112 Resp: 37183

Ion	Ratio	Lower	Upper
112	100		
114	33.0	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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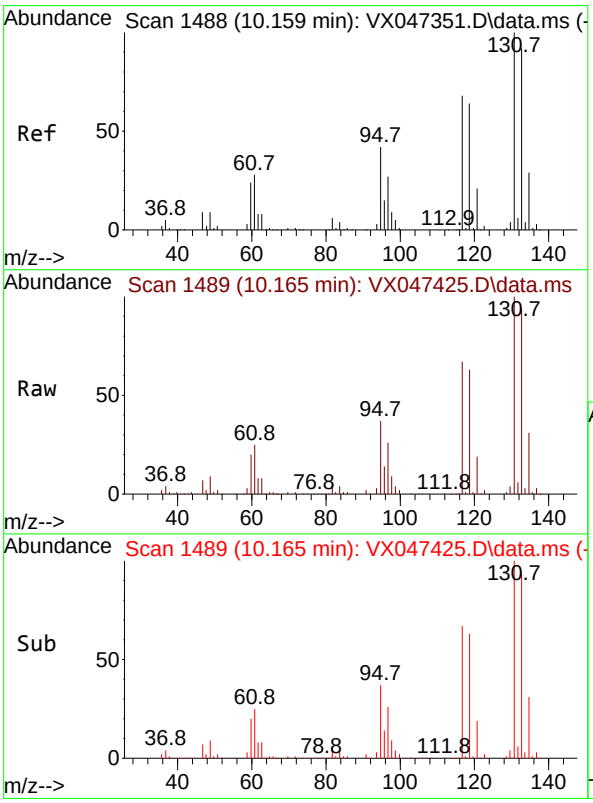
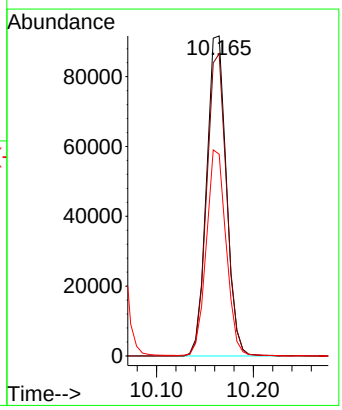
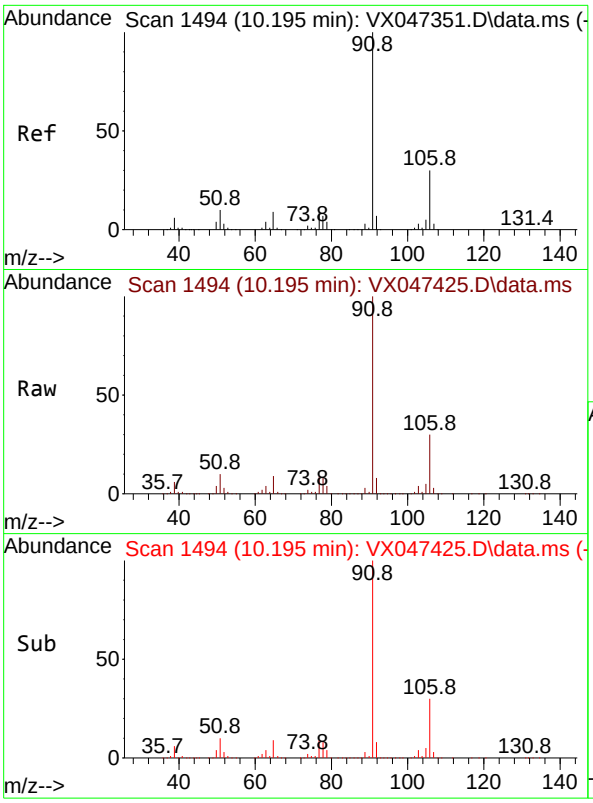


#66
1,1,1,2-Tetrachloroethane
Concen: 43.404 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:131 Resp: 130456

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.6	142.9
119	64.7	32.3	96.8

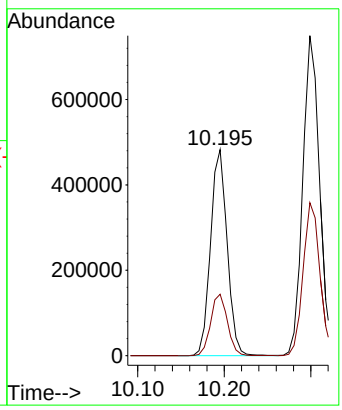




#67
Ethyl Benzene
Concen: 41.960 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 91 Resp: 64212

Ion	Ratio	Lower	Upper
91	100		
106	29.8	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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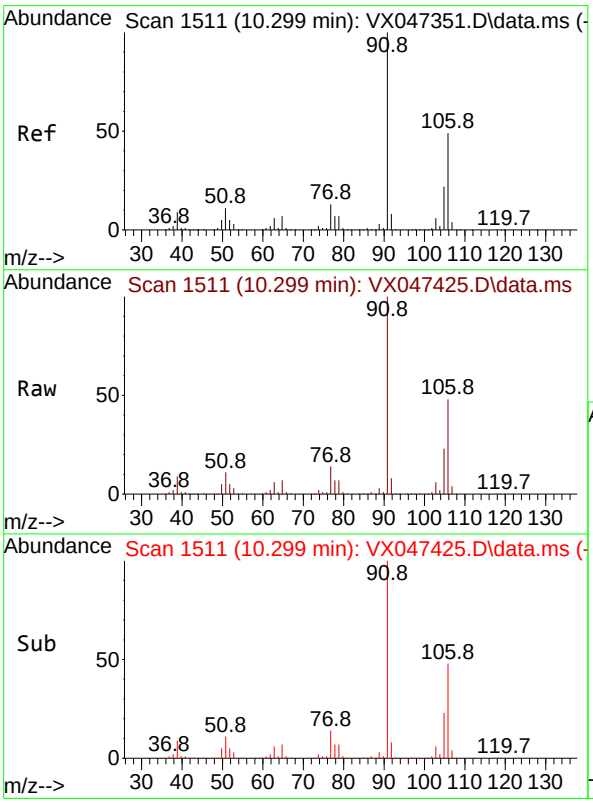
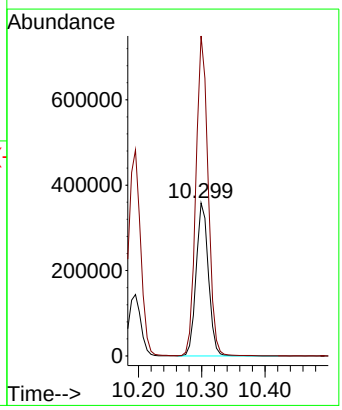
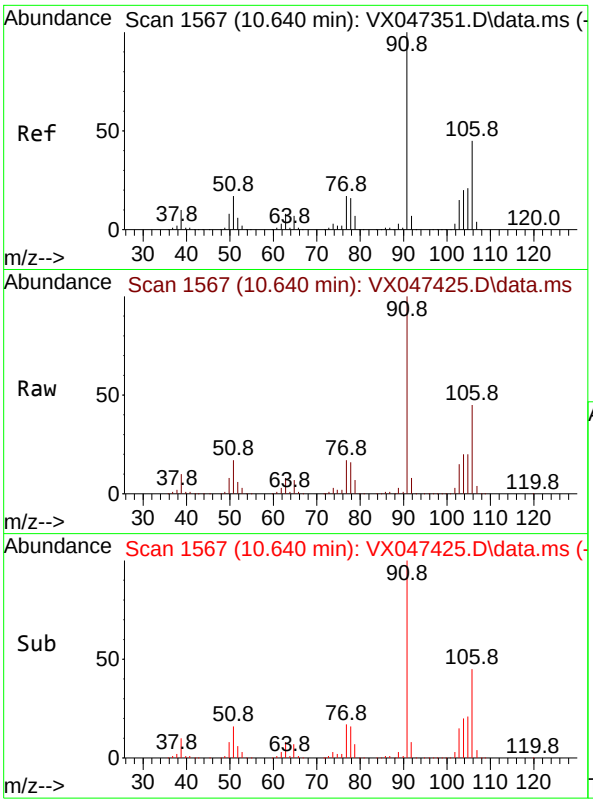


#68
m/p-Xylenes
Concen: 85.114 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:106 Resp: 485680

Ion	Ratio	Lower	Upper
106	100		
91	207.6	164.7	247.1





#69
o-Xylene
Concen: 42.669 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:106 Resp: 23431

Ion	Ratio	Lower	Upper
106	100		
91	220.1	110.6	331.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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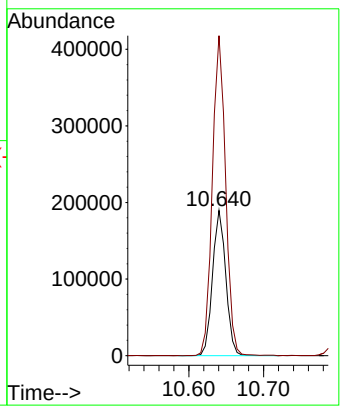
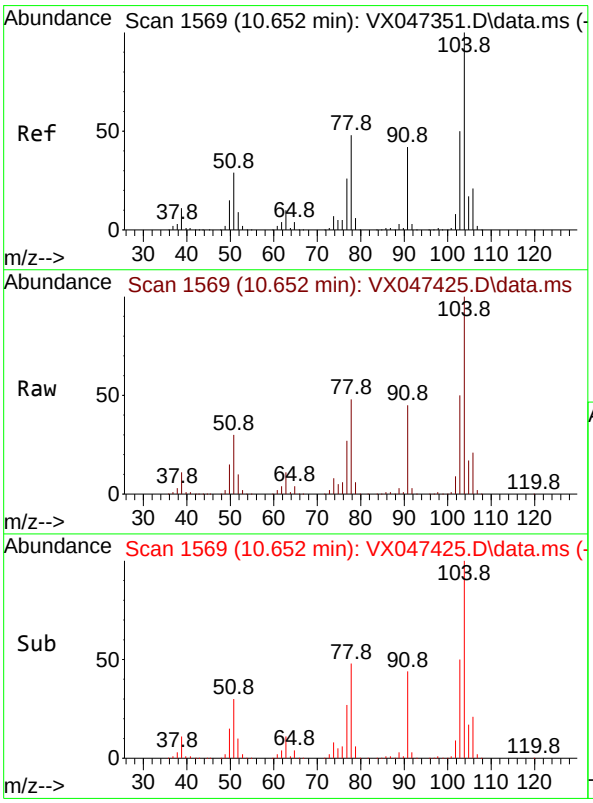
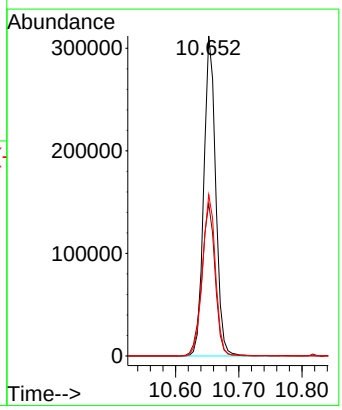


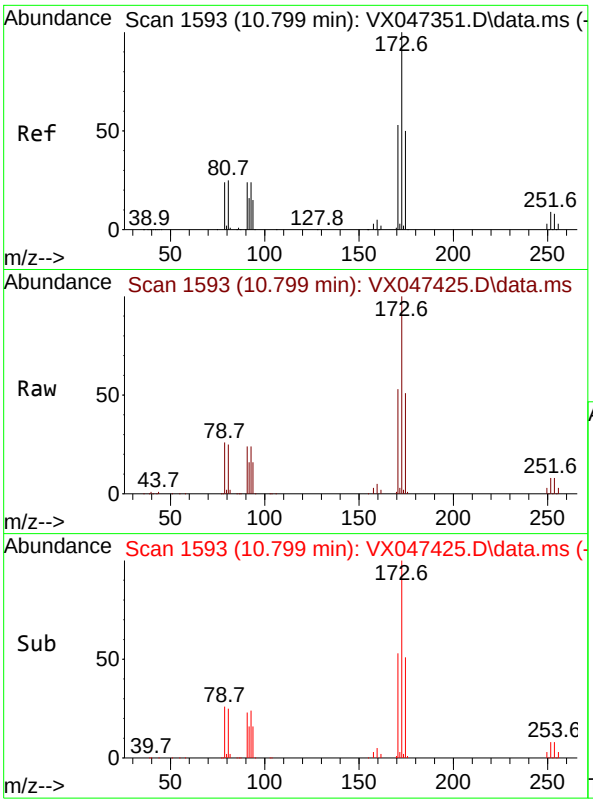


#70
Styrene
Concen: 44.167 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:104 Resp: 409804

Ion	Ratio	Lower	Upper
104	100		
78	52.8	41.8	62.8
103	54.8	43.6	65.4

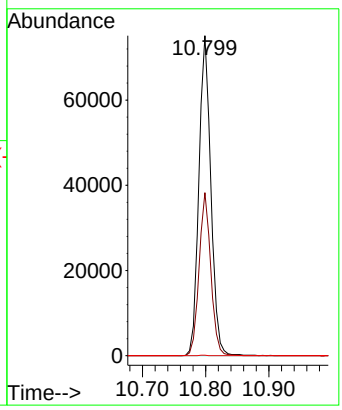




#71
Bromoform
Concen: 43.805 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:173 Resp: 9891

Ion	Ratio	Lower	Upper
173	100		
175	49.8	24.4	73.4
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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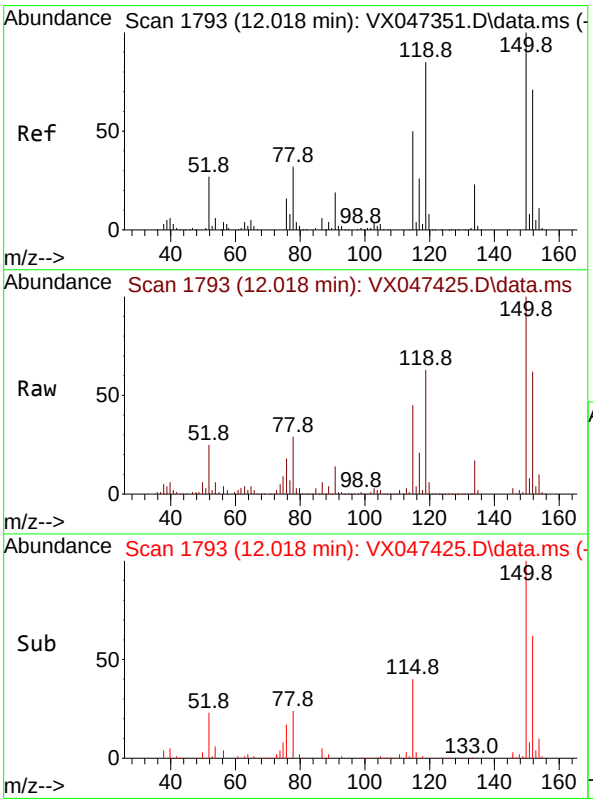
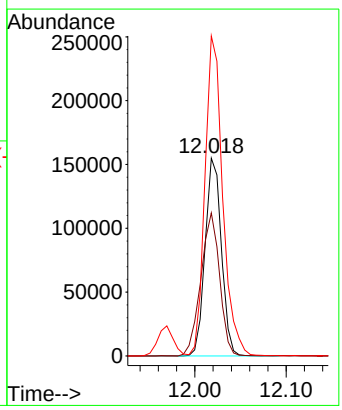
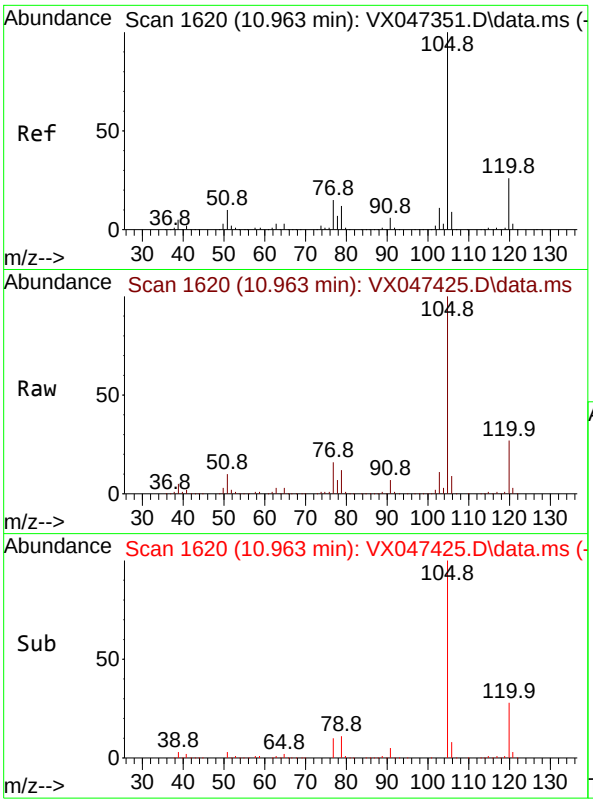


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:152 Resp: 191138

Ion	Ratio	Lower	Upper
152	100		
115	83.2	44.6	133.8
150	175.9	0.0	349.8

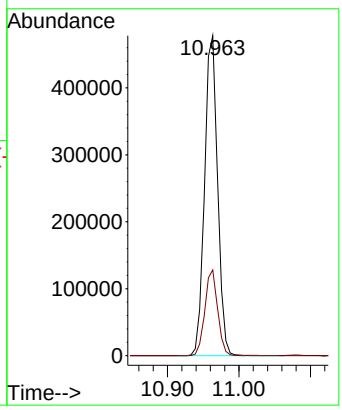




#73
Isopropylbenzene
Concen: 40.404 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:105 Resp: 60434

Ion	Ratio	Lower	Upper
105	100		
120	26.3	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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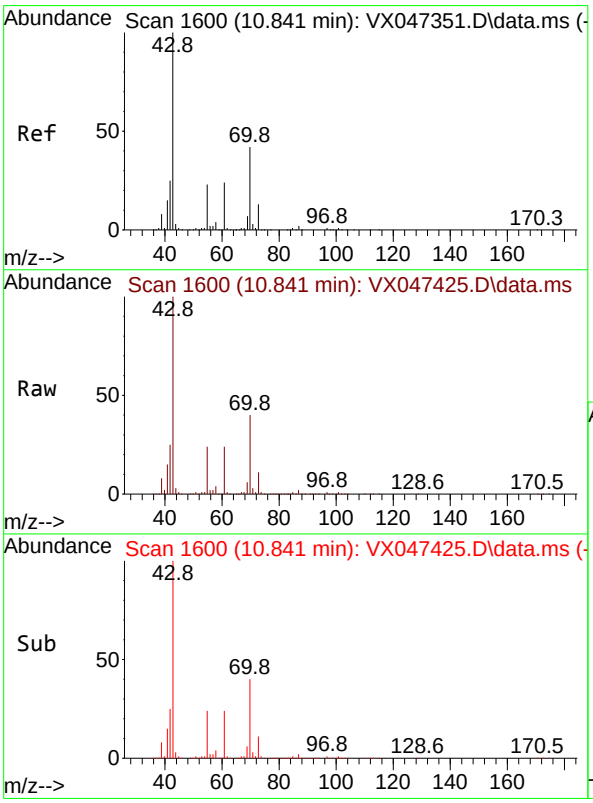
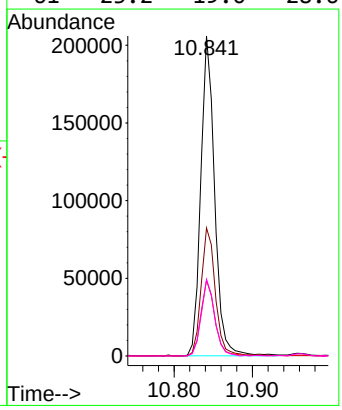
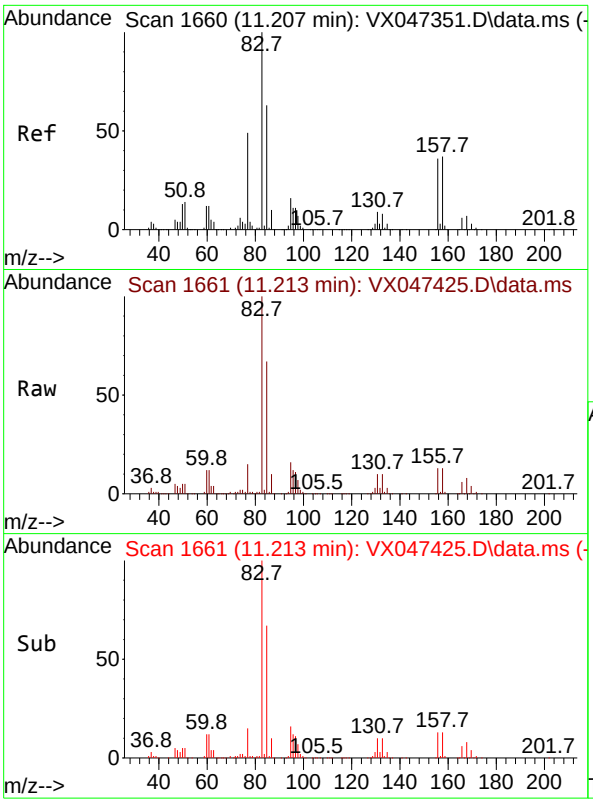


#74
N-amyl acetate
Concen: 44.564 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 43 Resp: 253123

Ion	Ratio	Lower	Upper
43	100		
70	41.2	33.1	49.7
55	23.9	19.0	28.6
61	23.2	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 43.264 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 83 Resp: 18999

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	15.0
85	64.9	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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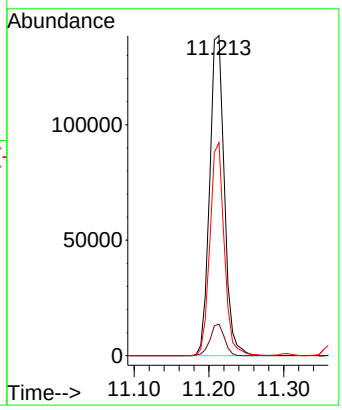
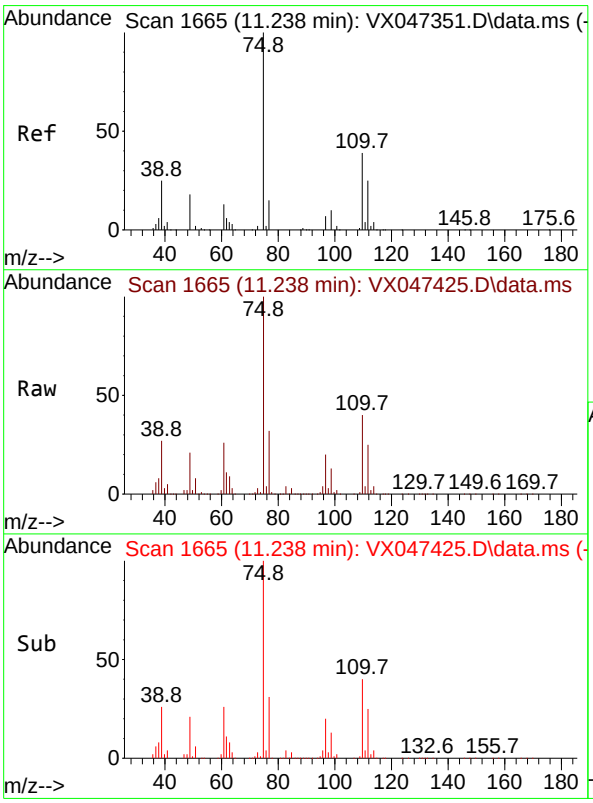
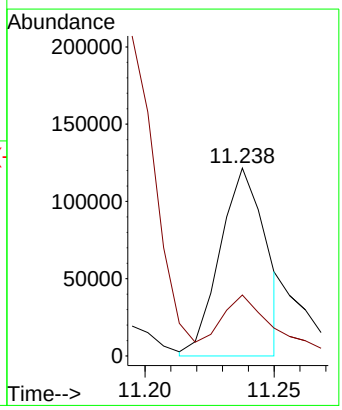


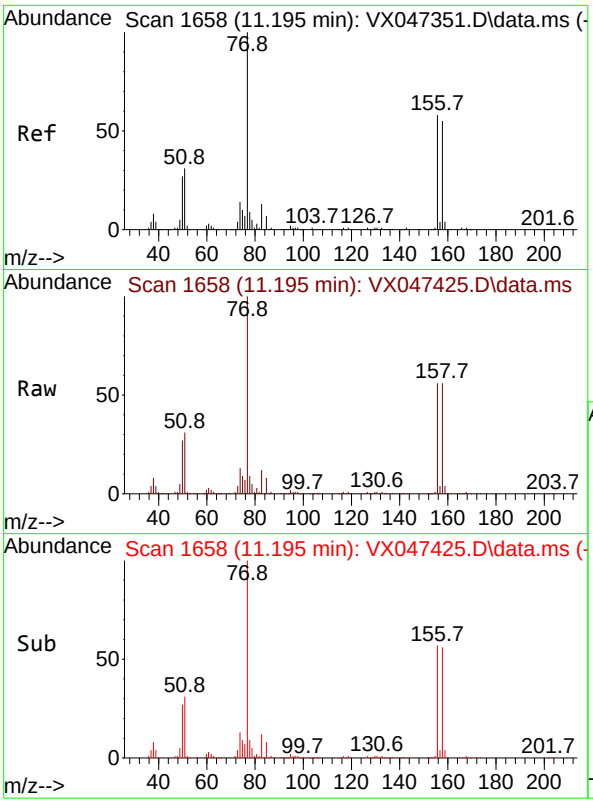


#76
1,2,3-Trichloropropane
Concen: 42.879 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 75 Resp: 150321

Ion	Ratio	Lower	Upper
75	100		
77	38.6	19.4	58.2

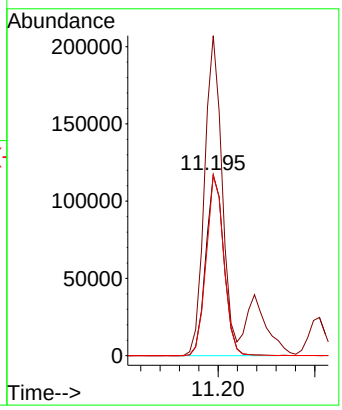




#77
Bromobenzene
Concen: 41.417 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:156 Resp: 15127

Ion	Ratio	Lower	Upper
156	100		
77	172.7	86.3	258.9
158	97.7	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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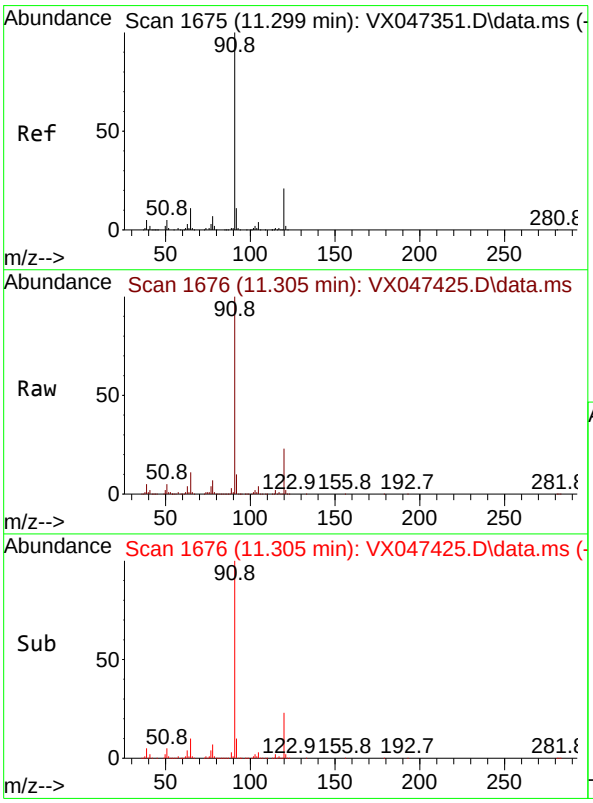
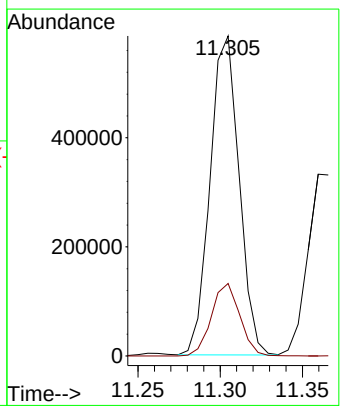
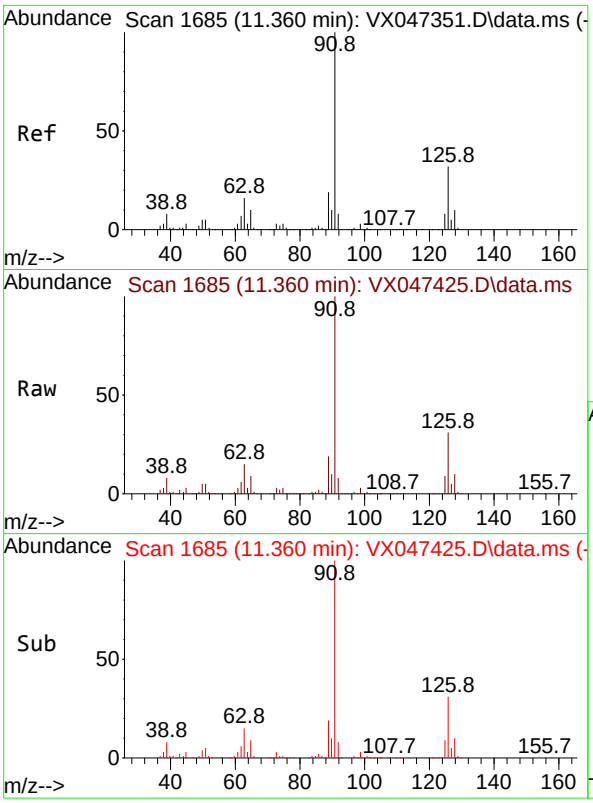


#78
n-propylbenzene
Concen: 40.228 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 91 Resp: 718624

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0

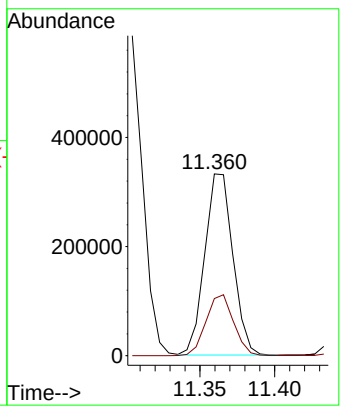




#79
2-Chlorotoluene
Concen: 40.298 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 91 Resp: 43517

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.7	50.1



Instrument :
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ClientSampleId :
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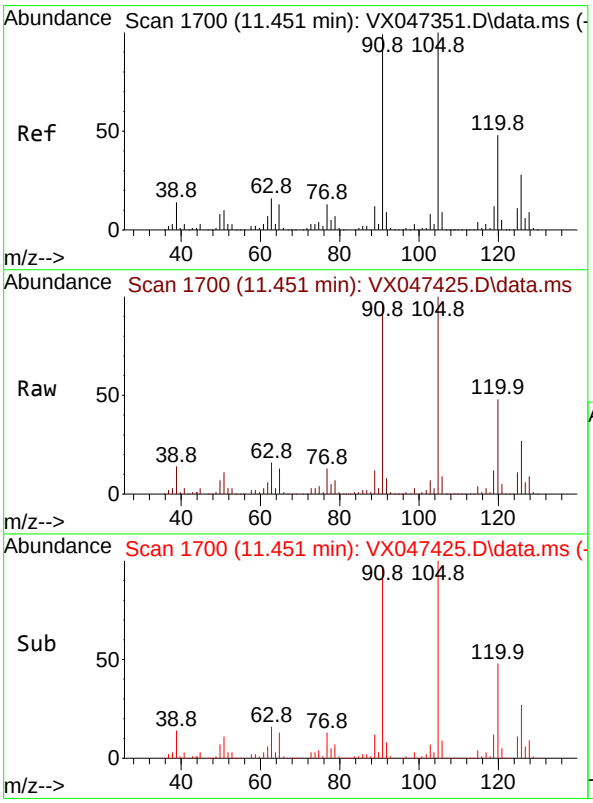
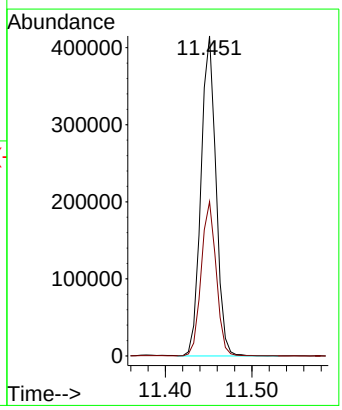
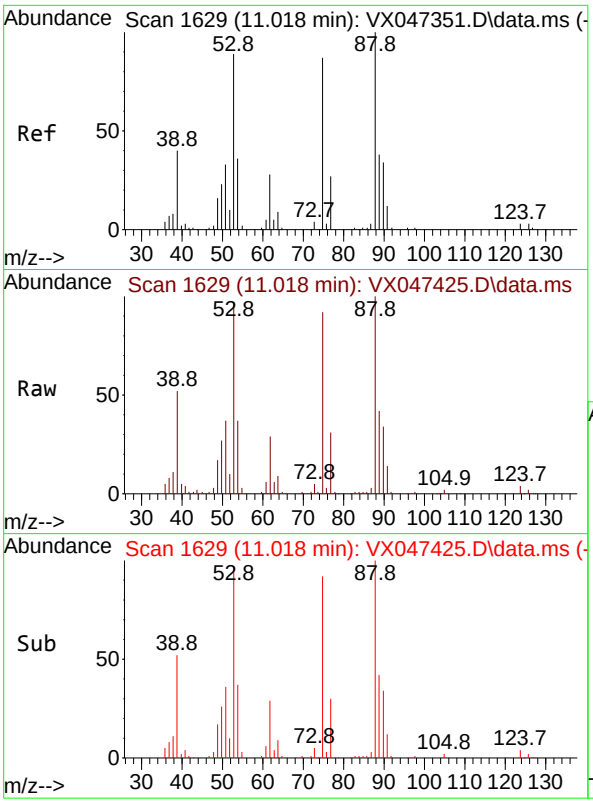


#80
1,3,5-Trimethylbenzene
Concen: 40.589 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:105 Resp: 499524

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.9	71.7

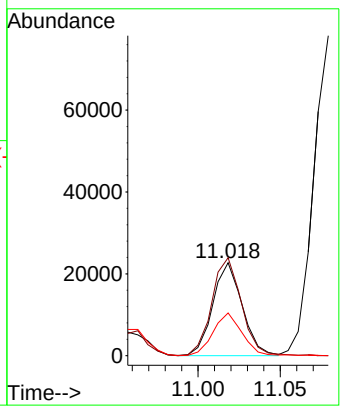




#81
trans-1,4-Dichloro-2-butene
Concen: 37.350 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 75 Resp: 2821

Ion	Ratio	Lower	Upper
75	100		
53	106.3	85.2	127.8
89	45.6	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
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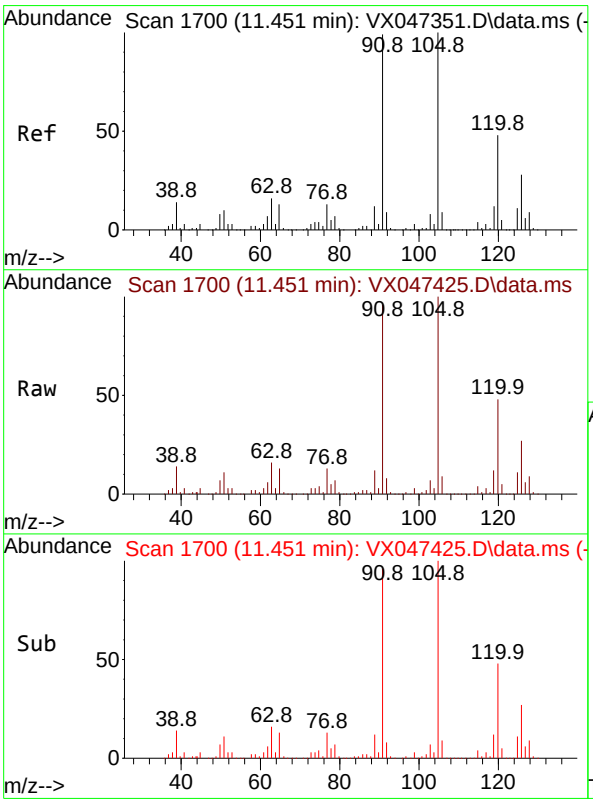
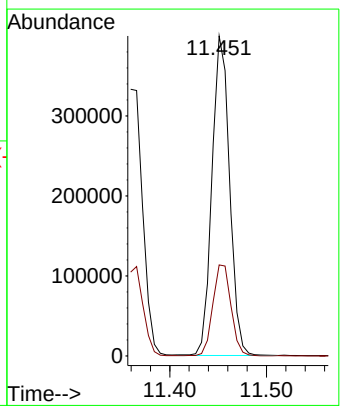
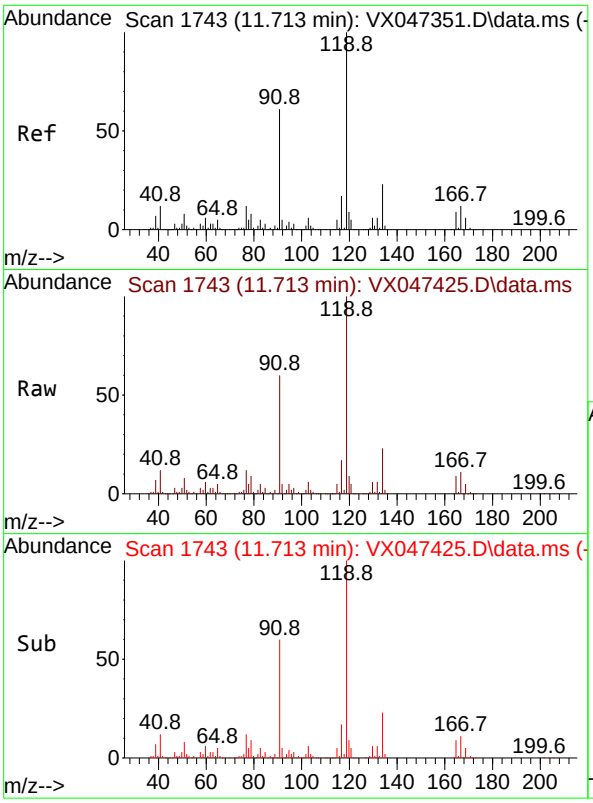


#82
4-Chlorotoluene
Concen: 39.621 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 91 Resp: 504359

Ion	Ratio	Lower	Upper
91	100		
126	29.4	14.4	43.0

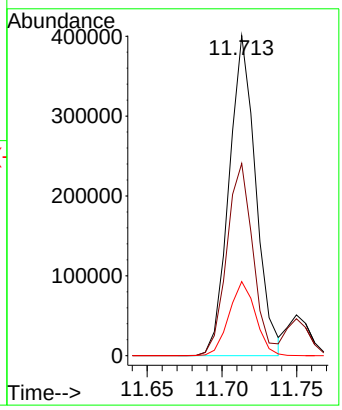




#83
tert-Butylbenzene
Concen: 40.499 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:119 Resp: 49725

Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.1	87.4
134	23.0	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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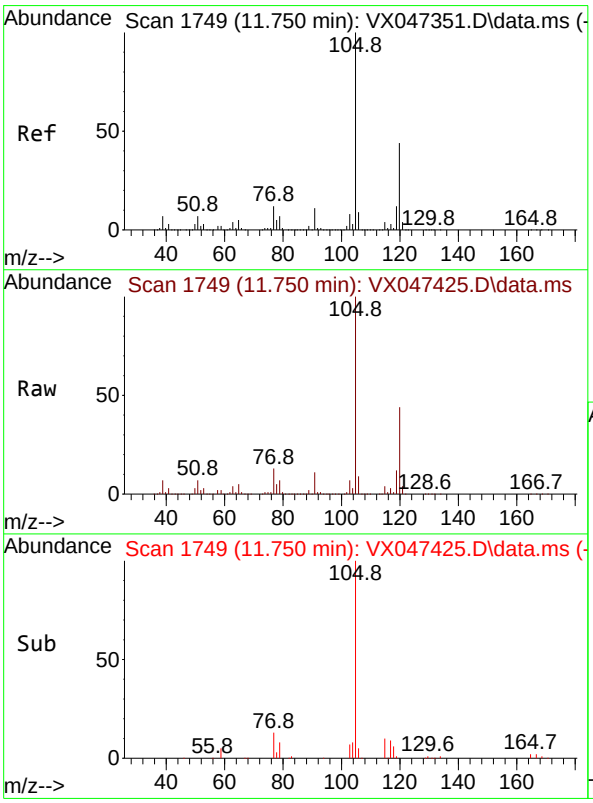
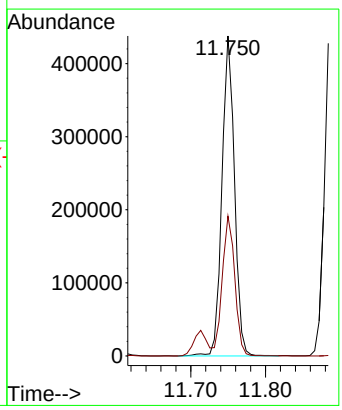
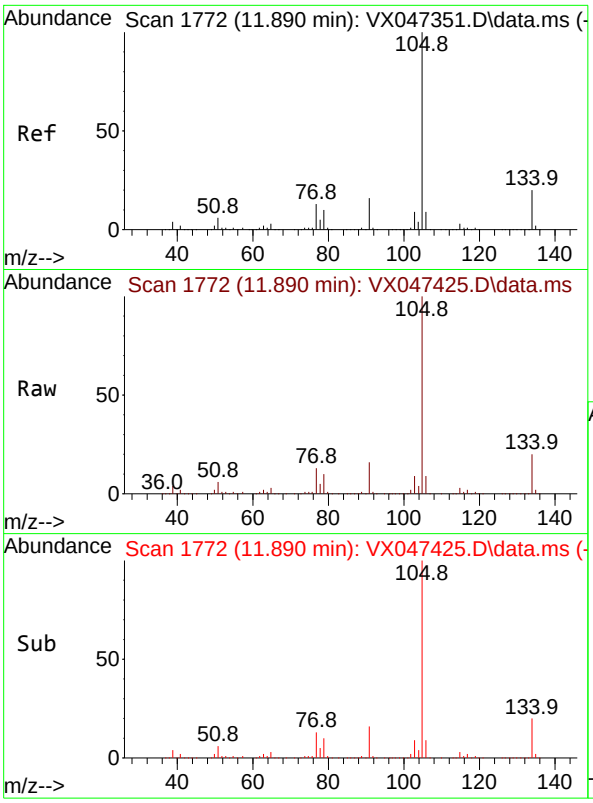


#84
1,2,4-Trimethylbenzene
Concen: 41.402 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:105 Resp: 509532

Ion	Ratio	Lower	Upper
105	100		
120	44.3	21.9	65.7

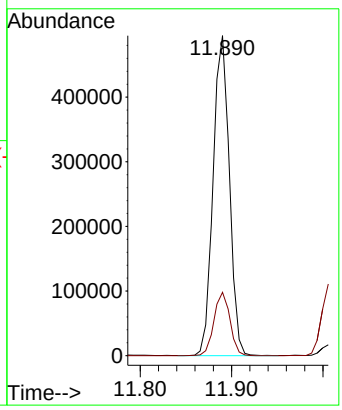




#85
sec-Butylbenzene
Concen: 40.153 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:105 Resp: 61106

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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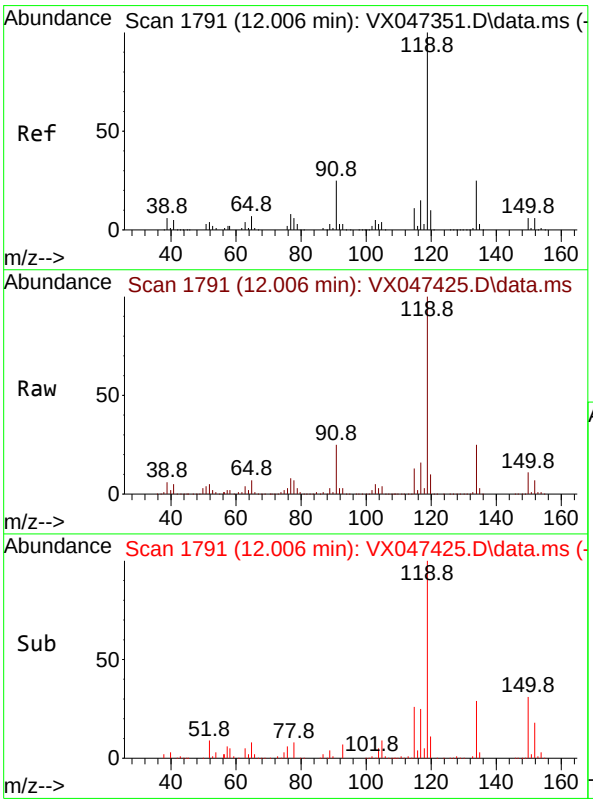
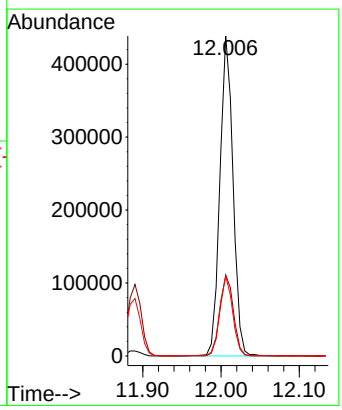
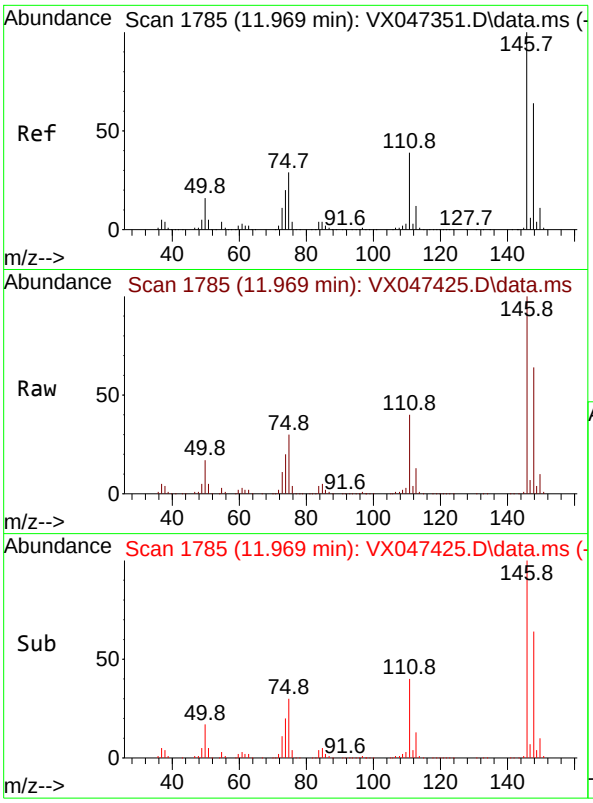


#86
p-Isopropyltoluene
Concen: 39.835 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:119 Resp: 512989

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	24.9	12.4	37.4

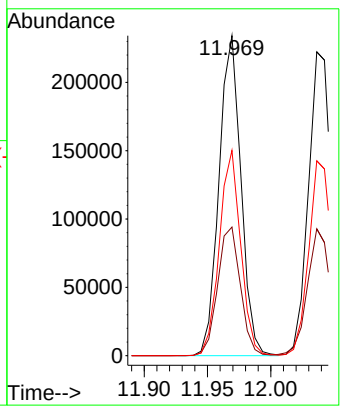




#87
1,3-Dichlorobenzene
Concen: 40.440 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:146 Resp: 28217

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.6	61.8
148	62.4	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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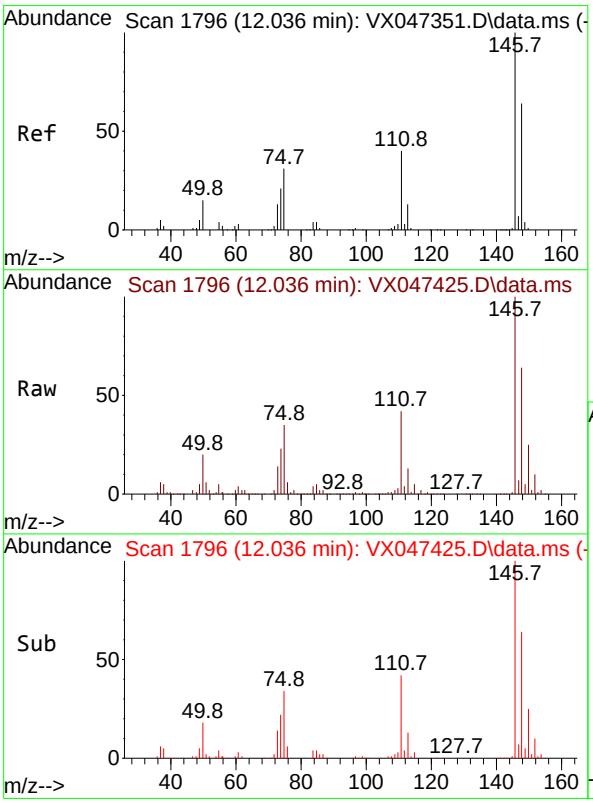
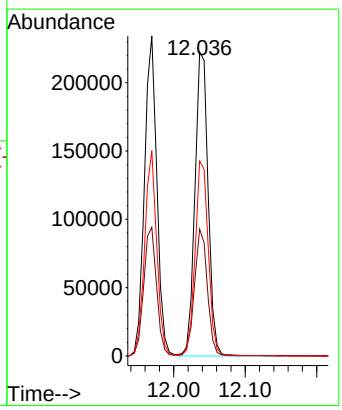
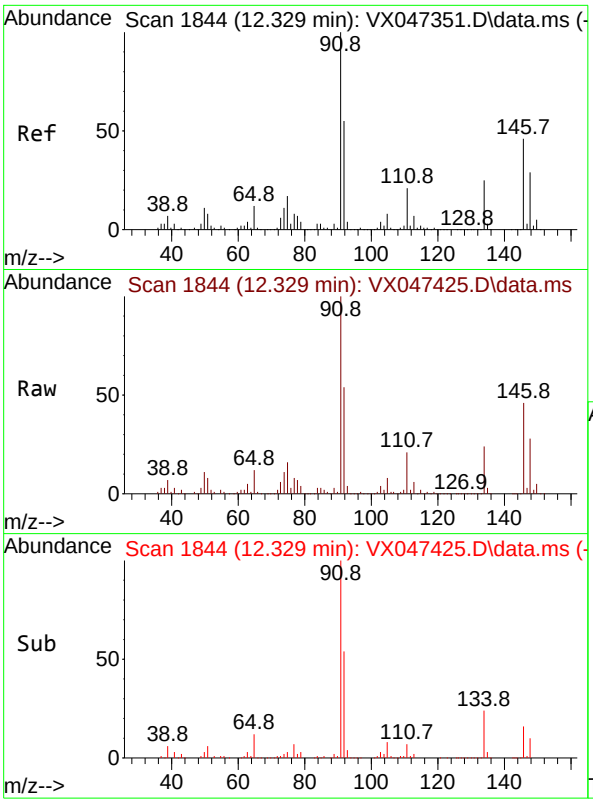


#88
1,4-Dichlorobenzene
Concen: 39.703 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:146 Resp: 284933

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.4	61.2
148	63.6	31.7	95.1





#89
n-Butylbenzene
Concen: 39.923 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 91 Resp: 47819

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.2	81.5
134	25.1	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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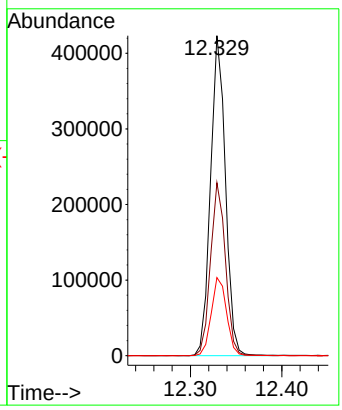
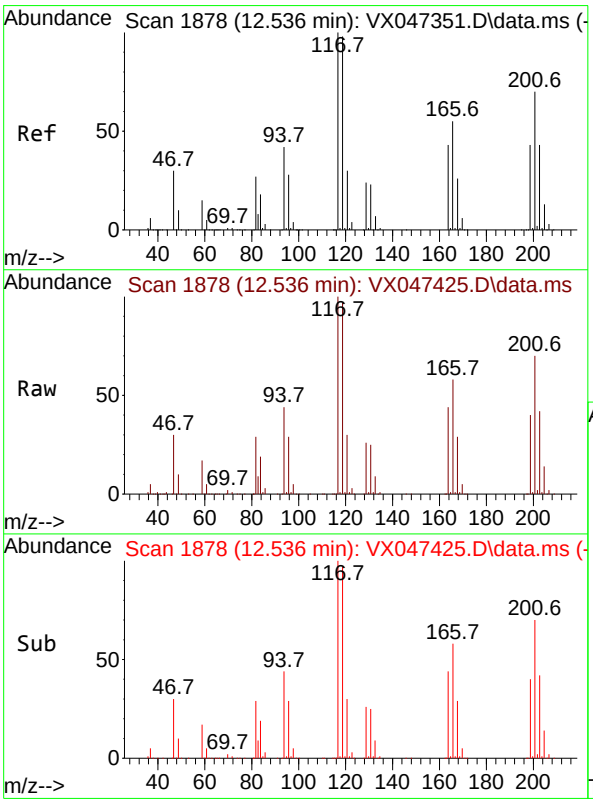
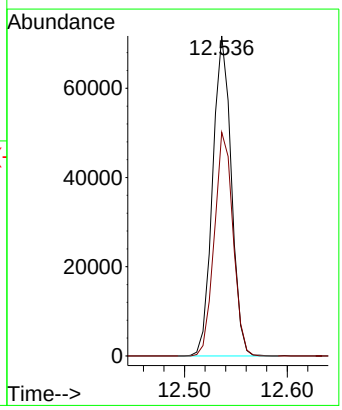


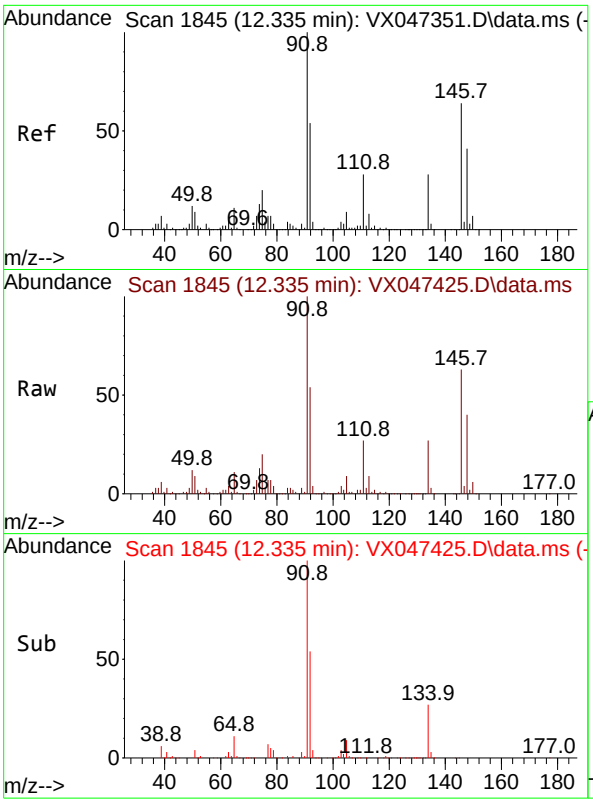


#90
Hexachloroethane
Concen: 39.894 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:117 Resp: 90127

Ion	Ratio	Lower	Upper
117	100		
201	70.0	35.1	105.3

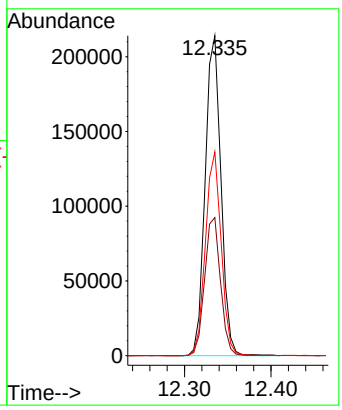




#91
1,2-Dichlorobenzene
Concen: 40.902 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:146 Resp: 27089

Ion	Ratio	Lower	Upper
146	100		
111	43.6	22.1	66.1
148	63.6	31.9	95.5



Instrument :
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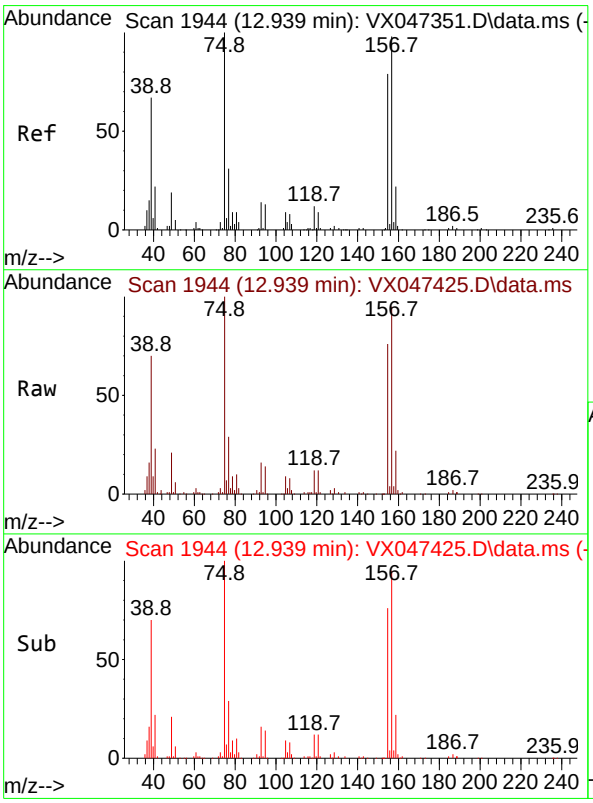
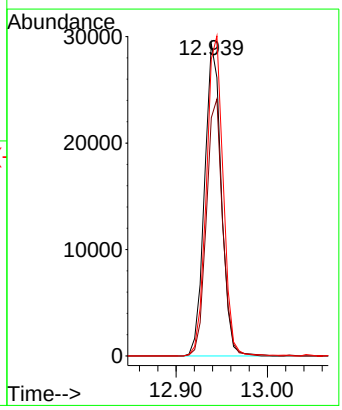
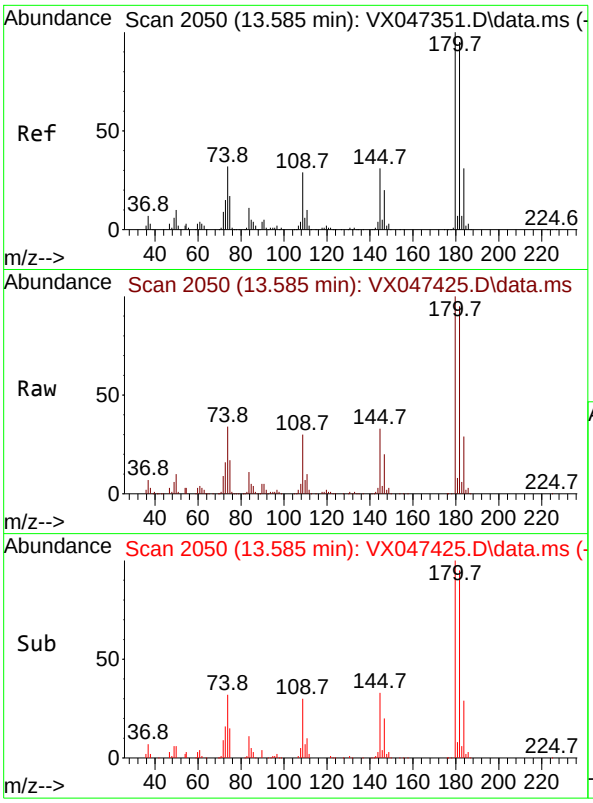


#92
1,2-Dibromo-3-Chloropropane
Concen: 43.828 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 75 Resp: 37223

Ion	Ratio	Lower	Upper
75	100		
155	80.0	41.3	123.7
157	102.7	51.5	154.5

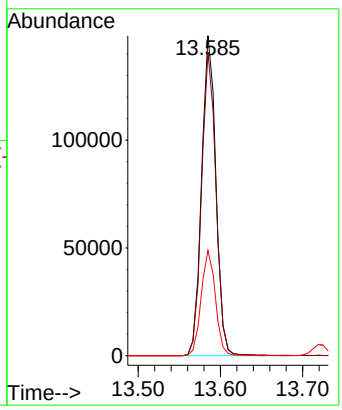




#93
1,2,4-Trichlorobenzene
Concen: 40.273 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:180 Resp: 17881

Ion	Ratio	Lower	Upper
180	100		
182	95.2	48.1	144.4
145	32.9	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
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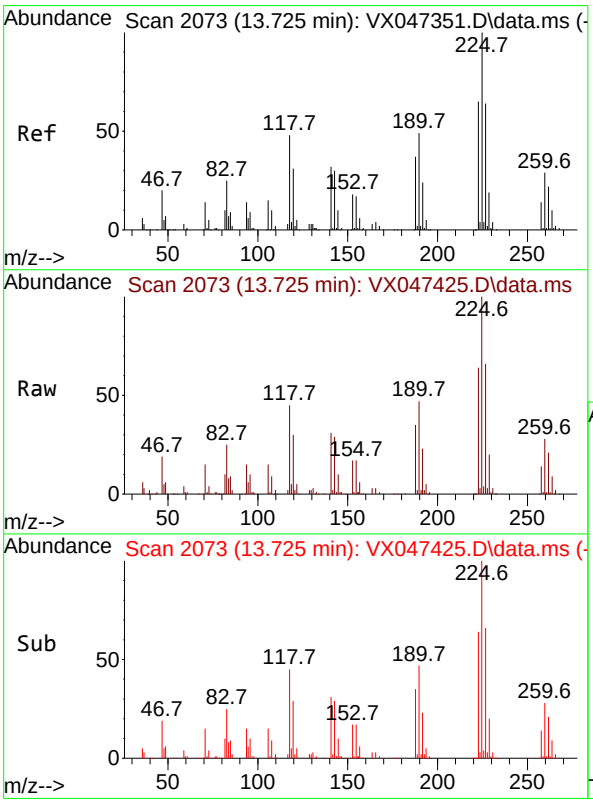
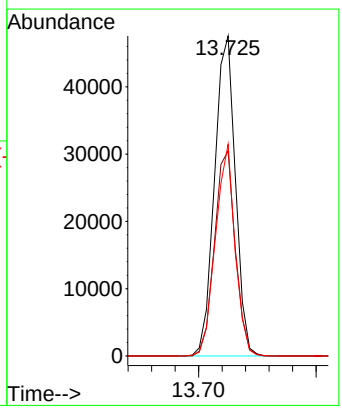
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

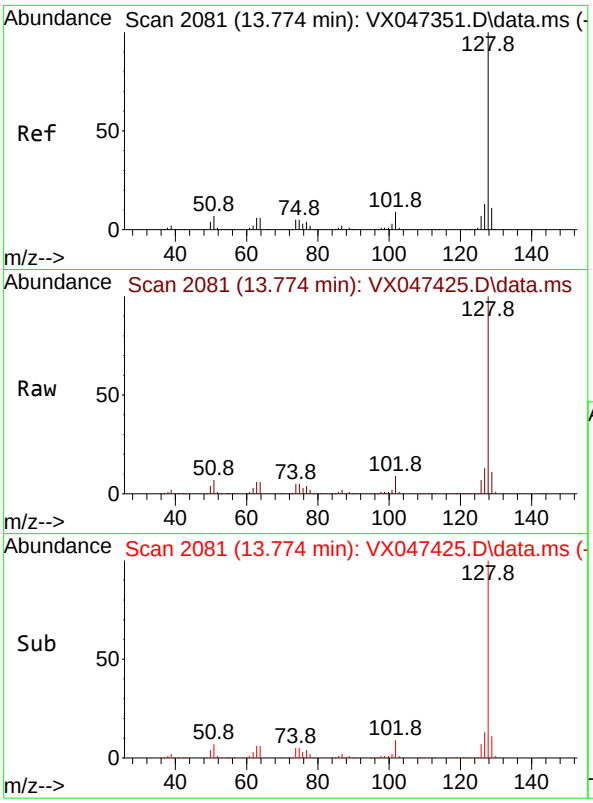


#94
Hexachlorobutadiene
Concen: 37.038 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:225 Resp: 58535

Ion	Ratio	Lower	Upper
225	100		
223	64.1	32.2	96.6
227	62.1	31.6	95.0

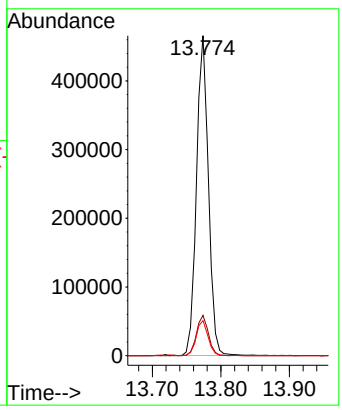




#95
Naphthalene
Concen: 44.507 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:128 Resp: 56471

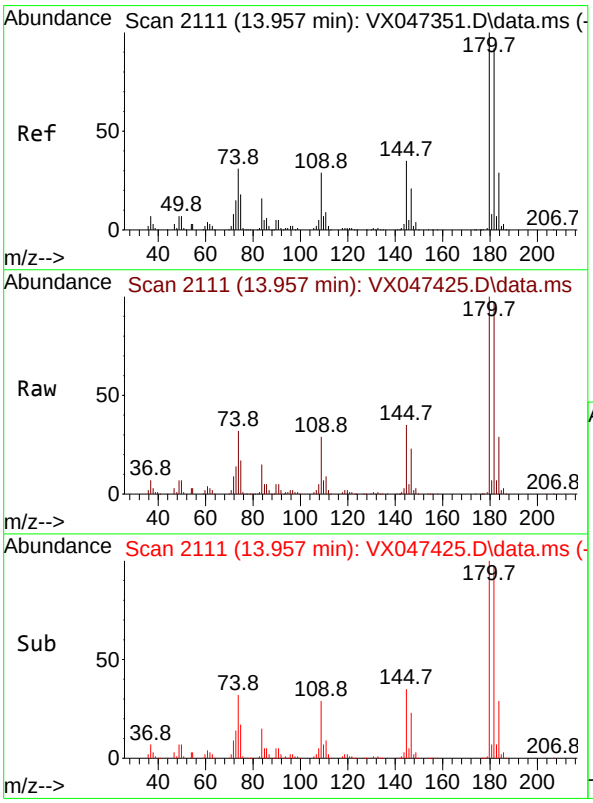
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.9	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

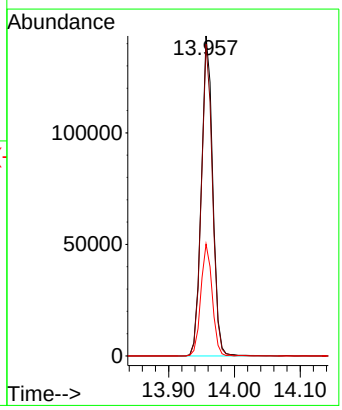
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#96
1,2,3-Trichlorobenzene
Concen: 41.215 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:180 Resp: 172490

Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.0	144.2
145	34.9	17.4	52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	94	0.00
2	T	Dichlorodifluoromethane	0.637	0.547	14.1	70	0.00
3	P	Chloromethane	0.573	0.508	11.3	76	0.00
4	C	Vinyl Chloride	0.720	0.633	12.1#	74	0.00
5	T	Bromomethane	0.291	0.253	13.1	71	0.00
6	T	Chloroethane	0.440	0.372	15.5	75	0.00
7	T	Trichlorofluoromethane	1.065	0.912	14.4	72	0.00
8	T	Diethyl Ether	0.375	0.366	2.4	83	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.618	0.522	15.5	70	0.00
10	T	Methyl Iodide	1.058	0.672	36.5#	54	0.00
11	T	Tert butyl alcohol	0.061	0.067	-9.8	92	0.00
12	CM	1,1-Dichloroethene	0.630	0.557	11.6#	75	0.00
13	T	Acrolein	0.129	0.137	-6.2	97	0.00
14	T	Allyl chloride	1.093	0.980	10.3	76	0.00
15	T	Acrylonitrile	0.294	0.305	-3.7	84	0.00
16	T	Acetone	0.263	0.242	8.0	81	0.00
17	T	Carbon Disulfide	1.900	1.519	20.1	71	0.00
18	T	Methyl Acetate	0.682	0.748	-9.7	91	0.00
19	T	Methyl tert-butyl Ether	1.915	1.875	2.1	81	0.00
20	T	Methylene Chloride	0.697	0.653	6.3	81	0.00
21	T	trans-1,2-Dichloroethene	0.668	0.594	11.1	77	0.00
22	T	Diisopropyl ether	2.161	2.145	0.7	82	0.00
23	T	Vinyl Acetate	1.772	1.755	1.0	81	0.00
24	P	1,1-Dichloroethane	1.222	1.145	6.3	79	0.00
25	T	2-Butanone	0.344	0.363	-5.5	88	0.00
26	T	2,2-Dichloropropane	0.922	0.726	21.3	67	0.00
27	T	cis-1,2-Dichloroethene	0.778	0.717	7.8	79	0.00
28	T	Bromochloromethane	0.508	0.538	-5.9	93	0.00
29	T	Tetrahydrofuran	0.223	0.231	-3.6	88	0.00
30	C	Chloroform	1.247	1.182	5.2#	81	0.00
31	T	Cyclohexane	1.126	0.940	16.5	73	0.00
32	T	1,1,1-Trichloroethane	1.073	0.954	11.1	75	0.00
33	S	1,2-Dichloroethane-d4	0.700	0.792	-13.1	106	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35	S	Dibromofluoromethane	0.325	0.337	-3.7	100	0.00
36	T	1,1-Dichloropropene	0.512	0.430	16.0	76	0.00
37	T	Ethyl Acetate	0.532	0.471	11.5	79	0.00
38	T	Carbon Tetrachloride	0.560	0.458	18.2	75	0.00
39	T	Methylcyclohexane	0.639	0.496	22.4	71	0.00
40	TM	Benzene	1.533	1.348	12.1	78	0.00
41	T	Methacrylonitrile	0.224	0.214	4.5	82	0.00
42	TM	1,2-Dichloroethane	0.543	0.493	9.2	81	0.00
43	T	Isopropyl Acetate	0.764	0.731	4.3	83	0.00
44	TM	Trichloroethene	0.393	0.334	15.0	76	0.00
45	C	1,2-Dichloropropane	0.384	0.346	9.9#	81	0.00
46	T	Dibromomethane	0.279	0.256	8.2	84	0.00
47	T	Bromodichloromethane	0.578	0.518	10.4	81	0.00
48	T	Methyl methacrylate	0.397	0.379	4.5	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	0.004	0.0	86	0.00
50	S	Toluene-d8	1.160	1.149	0.9	97	0.00
51	T	4-Methyl-2-Pentanone	0.440	0.437	0.7	85	0.00
52	CM	Toluene	0.947	0.845	10.8#	79	0.00
53	T	t-1,3-Dichloropropene	0.505	0.461	8.7	78	0.00
54	T	cis-1,3-Dichloropropene	0.571	0.518	9.3	80	0.00
55	T	1,1,2-Trichloroethane	0.360	0.333	7.5	83	0.00
56	T	Ethyl methacrylate	0.530	0.515	2.8	82	0.00
57	T	1,3-Dichloropropane	0.613	0.570	7.0	84	0.00
58	T	2-Chloroethyl Vinyl ether	0.211	0.241	-14.2	87	0.00
59	T	2-Hexanone	0.304	0.299	1.6	85	0.00
60	T	Dibromochloromethane	0.428	0.391	8.6	83	0.00
61	T	1,2-Dibromoethane	0.371	0.340	8.4	82	0.00
62	S	4-Bromofluorobenzene	0.428	0.468	-9.3	108	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
64	T	Tetrachloroethene	0.362	0.288	20.4	75	0.00
65	PM	Chlorobenzene	1.188	0.994	16.3	80	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.349	13.2	81	0.00
67	C	Ethyl Benzene	2.045	1.716	16.1#	78	0.00
68	T	m/p-Xylenes	0.763	0.649	14.9	78	0.00
69	T	o-Xylene	0.734	0.626	14.7	79	0.00
70	T	Styrene	1.240	1.095	11.7	80	0.00
71	P	Bromoform	0.302	0.264	12.6	81	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
73	T	Isopropylbenzene	3.913	3.162	19.2	77	0.00
74	T	N-amyl acetate	1.486	1.324	10.9	83	0.00
75	P	1,1,2,2-Tetrachloroethane	1.149	0.994	13.5	84	0.00
76	T	1,2,3-Trichloropropane	0.917	0.786	14.3	84	0.00
77	T	Bromobenzene	0.955	0.791	17.2	81	0.00
78	T	n-propylbenzene	4.673	3.760	19.5	78	0.00
79	T	2-Chlorotoluene	2.825	2.277	19.4	79	0.00
80	T	1,3,5-Trimethylbenzene	3.219	2.613	18.8	79	0.00
81	T	trans-1,4-Dichloro-2-butene	0.178	0.148	16.9	80	0.00
82	T	4-Chlorotoluene	3.330	2.639	20.8	78	0.00
83	T	tert-Butylbenzene	3.212	2.602	19.0	77	0.00
84	T	1,2,4-Trimethylbenzene	3.219	2.666	17.2	79	0.00
85	T	sec-Butylbenzene	3.981	3.197	19.7	78	0.00
86	T	p-Isopropyltoluene	3.369	2.684	20.3	78	0.00
87	T	1,3-Dichlorobenzene	1.825	1.476	19.1	80	0.00
88	T	1,4-Dichlorobenzene	1.877	1.491	20.6	81	0.00
89	T	n-Butylbenzene	3.133	2.502	20.1	78	0.00
90	T	Hexachloroethane	0.591	0.472	20.1	78	0.00
91	T	1,2-Dichlorobenzene	1.733	1.417	18.2	82	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.222	0.195	12.2	85	0.00
93	T	1,2,4-Trichlorobenzene	1.161	0.936	19.4	82	0.00
94	T	Hexachlorobutadiene	0.413	0.306	25.9#	82	0.00
95	T	Naphthalene	3.319	2.955	11.0	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1.095	0.902	17.6	83	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	94	0.00
2	T	Dichlorodifluoromethane	50.000	42.909	14.2	70	0.00
3	P	Chloromethane	50.000	44.284	11.4	76	0.00
4	C	Vinyl Chloride	50.000	43.958	12.1#	74	0.00
5	T	Bromomethane	50.000	43.518	13.0	71	0.00
6	T	Chloroethane	50.000	42.252	15.5	75	0.00
7	T	Trichlorofluoromethane	50.000	42.842	14.3	72	0.00
8	T	Diethyl Ether	50.000	48.815	2.4	83	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	42.239	15.5	70	0.00
10	T	Methyl Iodide	50.000	31.758	36.5#	54	0.00
11	T	Tert butyl alcohol	250.000	273.483	-9.4	92	0.00
12	CM	1,1-Dichloroethene	50.000	44.220	11.6#	75	0.00
13	T	Acrolein	250.000	266.880	-6.8	97	0.00
14	T	Allyl chloride	50.000	44.799	10.4	76	0.00
15	T	Acrylonitrile	250.000	259.205	-3.7	84	0.00
16	T	Acetone	250.000	230.270	7.9	81	0.00
17	T	Carbon Disulfide	50.000	39.978	20.0	71	0.00
18	T	Methyl Acetate	50.000	54.862	-9.7	91	0.00
19	T	Methyl tert-butyl Ether	50.000	48.957	2.1	81	0.00
20	T	Methylene Chloride	50.000	46.911	6.2	81	0.00
21	T	trans-1,2-Dichloroethene	50.000	44.453	11.1	77	0.00
22	T	Diisopropyl ether	50.000	49.616	0.8	82	0.00
23	T	Vinyl Acetate	250.000	247.674	0.9	81	0.00
24	P	1,1-Dichloroethane	50.000	46.852	6.3	79	0.00
25	T	2-Butanone	250.000	263.558	-5.4	88	0.00
26	T	2,2-Dichloropropane	50.000	39.347	21.3	67	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.090	7.8	79	0.00
28	T	Bromochloromethane	50.000	52.943	-5.9	93	0.00
29	T	Tetrahydrofuran	250.000	259.873	-3.9	88	0.00
30	C	Chloroform	50.000	47.421	5.2#	81	0.00
31	T	Cyclohexane	50.000	41.728	16.5	73	0.00
32	T	1,1,1-Trichloroethane	50.000	44.449	11.1	75	0.00
33	S	1,2-Dichloroethane-d4	50.000	56.605	-13.2	106	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35	S	Dibromofluoromethane	50.000	51.916	-3.8	100	0.00
36	T	1,1-Dichloropropene	50.000	41.954	16.1	76	0.00
37	T	Ethyl Acetate	50.000	44.258	11.5	79	0.00
38	T	Carbon Tetrachloride	50.000	40.895	18.2	75	0.00
39	T	Methylcyclohexane	50.000	38.819	22.4	71	0.00
40	TM	Benzene	50.000	43.949	12.1	78	0.00
41	T	Methacrylonitrile	50.000	47.606	4.8	82	0.00
42	TM	1,2-Dichloroethane	50.000	45.376	9.2	81	0.00
43	T	Isopropyl Acetate	50.000	47.841	4.3	83	0.00
44	TM	Trichloroethene	50.000	42.559	14.9	76	0.00
45	C	1,2-Dichloropropane	50.000	45.077	9.8#	81	0.00
46	T	Dibromomethane	50.000	45.878	8.2	84	0.00
47	T	Bromodichloromethane	50.000	44.775	10.5	81	0.00
48	T	Methyl methacrylate	50.000	47.741	4.5	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1010.025	-1.0	86	0.00
50	S	Toluene-d8	50.000	49.526	0.9	97	0.00
51	T	4-Methyl-2-Pentanone	250.000	248.529	0.6	85	0.00
52	CM	Toluene	50.000	44.591	10.8#	79	0.00
53	T	t-1,3-Dichloropropene	50.000	45.727	8.5	78	0.00
54	T	cis-1,3-Dichloropropene	50.000	45.391	9.2	80	0.00
55	T	1,1,2-Trichloroethane	50.000	46.352	7.3	83	0.00
56	T	Ethyl methacrylate	50.000	48.508	3.0	82	0.00
57	T	1,3-Dichloropropane	50.000	46.532	6.9	84	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	238.311	4.7	87	0.00
59	T	2-Hexanone	250.000	245.394	1.8	85	0.00
60	T	Dibromochloromethane	50.000	45.703	8.6	83	0.00
61	T	1,2-Dibromoethane	50.000	45.823	8.4	82	0.00
62	S	4-Bromofluorobenzene	50.000	54.662	-9.3	108	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	103	0.00
64	T	Tetrachloroethene	50.000	39.799	20.4	75	0.00
65	PM	Chlorobenzene	50.000	41.820	16.4	80	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	43.404	13.2	81	0.00
67	C	Ethyl Benzene	50.000	41.960	16.1#	78	0.00
68	T	m/p-Xylenes	100.000	85.114	14.9	78	0.00
69	T	o-Xylene	50.000	42.669	14.7	79	0.00
70	T	Styrene	50.000	44.167	11.7	80	0.00
71	P	Bromoform	50.000	43.805	12.4	81	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	108	0.00
73	T	Isopropylbenzene	50.000	40.404	19.2	77	0.00
74	T	N-amyl acetate	50.000	44.564	10.9	83	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	43.264	13.5	84	0.00
76	T	1,2,3-Trichloropropane	50.000	42.879	14.2	84	0.00
77	T	Bromobenzene	50.000	41.417	17.2	81	0.00
78	T	n-propylbenzene	50.000	40.228	19.5	78	0.00
79	T	2-Chlorotoluene	50.000	40.298	19.4	79	0.00
80	T	1,3,5-Trimethylbenzene	50.000	40.589	18.8	79	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	37.350	25.3#	80	0.00
82	T	4-Chlorotoluene	50.000	39.621	20.8	78	0.00
83	T	tert-Butylbenzene	50.000	40.499	19.0	77	0.00
84	T	1,2,4-Trimethylbenzene	50.000	41.402	17.2	79	0.00
85	T	sec-Butylbenzene	50.000	40.153	19.7	78	0.00
86	T	p-Isopropyltoluene	50.000	39.835	20.3	78	0.00
87	T	1,3-Dichlorobenzene	50.000	40.440	19.1	80	0.00
88	T	1,4-Dichlorobenzene	50.000	39.703	20.6	81	0.00
89	T	n-Butylbenzene	50.000	39.923	20.2	78	0.00
90	T	Hexachloroethane	50.000	39.894	20.2	78	0.00
91	T	1,2-Dichlorobenzene	50.000	40.902	18.2	82	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	43.828	12.3	85	0.00
93	T	1,2,4-Trichlorobenzene	50.000	40.273	19.5	82	0.00
94	T	Hexachlorobutadiene	50.000	37.038	25.9#	82	0.00
95	T	Naphthalene	50.000	44.507	11.0	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	41.215	17.6	83	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:	FIRS02
Lab Code:	ACE	SDG No.:	Q2815
Instrument ID:	MSVOA_X	Calibration Date/Time:	08/20/2025 09:25
Lab File ID:	VX047427.D	Init. Calib. Date(s):	08/15/2025 08/15/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:40 12:30

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.637	0.619		-2.83	20
Chloromethane	0.573	0.524	0.1	-8.55	20
Vinyl Chloride	0.720	0.671		-6.81	20
Bromomethane	0.291	0.280		-3.78	20
Chloroethane	0.440	0.388		-11.82	20
Trichlorofluoromethane	1.065	1.004		-5.73	20
1,1,2-Trichlorotrifluoroethane	0.618	0.619		0.16	20
1,1-Dichloroethene	0.630	0.586		-6.98	20
Acetone	0.263	0.306		16.35	20
Carbon Disulfide	1.900	1.634		-14	20
Methyl tert-butyl Ether	1.915	1.920		0.26	20
Methyl Acetate	0.682	0.758		11.14	20
Methylene Chloride	0.697	0.654		-6.17	20
trans-1,2-Dichloroethene	0.668	0.621		-7.04	20
1,1-Dichloroethane	1.222	1.158	0.1	-5.24	20
Cyclohexane	1.126	1.049		-6.84	20
2-Butanone	0.344	0.389		13.08	20
Carbon Tetrachloride	0.560	0.532		-5	20
cis-1,2-Dichloroethene	0.778	0.733		-5.78	20
Bromochloromethane	0.508	0.535		5.32	20
Chloroform	1.247	1.188		-4.73	20
1,1,1-Trichloroethane	1.073	1.016		-5.31	20
Methylcyclohexane	0.639	0.615		-3.76	20
Benzene	1.533	1.484		-3.2	20
1,2-Dichloroethane	0.543	0.539		-0.74	20
Trichloroethene	0.393	0.368		-6.36	20
1,2-Dichloropropane	0.384	0.378		-1.56	20
Bromodichloromethane	0.578	0.576		-0.35	20
4-Methyl-2-Pentanone	0.440	0.471		7.05	20
Toluene	0.947	0.929		-1.9	20
t-1,3-Dichloropropene	0.505	0.529		4.75	20
cis-1,3-Dichloropropene	0.571	0.580		1.58	20
1,1,2-Trichloroethane	0.360	0.361		0.28	20
2-Hexanone	0.304	0.329		8.22	20
Dibromochloromethane	0.428	0.430		0.47	20
1,2-Dibromoethane	0.371	0.370		-0.27	20
Tetrachloroethene	0.362	0.335		-7.46	20
Chlorobenzene	1.188	1.113	0.3	-6.31	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: FIRS02

Lab Code: ACE | SDG No.: Q2815

Instrument ID: MSVOA_X | Calibration Date/Time: 08/20/2025 09:25

Lab File ID: VX047427.D | Init. Calib. Date(s): 08/15/2025 08/15/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:40 12:30

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.045	1.938		-5.23	20
m/p-Xylenes	0.763	0.737		-3.41	20
o-Xylene	0.734	0.703		-4.22	20
Styrene	1.240	1.217		-1.86	20
Bromoform	0.302	0.303	0.1	0.33	20
Isopropylbenzene	3.913	3.810		-2.63	20
1,1,2,2-Tetrachloroethane	1.149	1.148	0.3	-0.09	20
1,3-Dichlorobenzene	1.825	1.723		-5.59	20
1,4-Dichlorobenzene	1.877	1.739		-7.35	20
1,2-Dichlorobenzene	1.733	1.647		-4.96	20
1,2-Dibromo-3-Chloropropane	0.222	0.224		0.9	20
1,2,4-Trichlorobenzene	1.161	1.121		-3.44	20
1,2,3-Trichlorobenzene	1.095	1.065		-2.74	20
1,2-Dichloroethane-d4	0.700	0.747		6.71	20
Dibromofluoromethane	0.325	0.355		9.23	20
Toluene-d8	1.160	1.231		6.12	20
4-Bromofluorobenzene	0.428	0.465		8.65	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	222102	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	369648	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	338607	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	165668	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	165825	53.348	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.700%			
35) Dibromofluoromethane	5.391	113	131333	54.744	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.480%			
50) Toluene-d8	8.647	98	454952	53.057	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.120%			
62) 4-Bromofluorobenzene	11.079	95	171750	54.278	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	137479	48.557	ug/l	99
3) Chloromethane	1.307	50	116471	45.729	ug/l	96
4) Vinyl Chloride	1.392	62	149112	46.643	ug/l	98
5) Bromomethane	1.624	94	62138	48.121	ug/l	96
6) Chloroethane	1.703	64	86133	44.036	ug/l	100
7) Trichlorofluoromethane	1.904	101	222951	47.149	ug/l	100
8) Diethyl Ether	2.148	74	81534	48.968	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.343	101	137505	50.129	ug/l	99
10) Methyl Iodide	2.465	142	175616	37.360	ug/l	99
11) Tert butyl alcohol	2.959	59	77273	285.760	ug/l	98
12) 1,1-Dichloroethene	2.337	96	130124	46.532	ug/l	97
13) Acrolein	2.246	56	166950	292.470	ug/l	100
14) Allyl chloride	2.678	41	233998	48.177	ug/l	97
15) Acrylonitrile	3.075	53	345699	264.563	ug/l	100
16) Acetone	2.386	43	339865	290.885	ug/l	98
17) Carbon Disulfide	2.526	76	362926	43.008	ug/l	99
18) Methyl Acetate	2.709	43	168367	55.608	ug/l	99
19) Methyl tert-butyl Ether	3.124	73	426473	50.130	ug/l	99
20) Methylene Chloride	2.800	84	145340	46.976	ug/l	96
21) trans-1,2-Dichloroethene	3.105	96	138016	46.500	ug/l	99
22) Diisopropyl ether	3.764	45	479860	49.981	ug/l #	82
23) Vinyl Acetate	3.727	43	2003620	254.613	ug/l	100
24) 1,1-Dichloroethane	3.617	63	257251	47.405	ug/l	99
25) 2-Butanone	4.562	43	432361	282.551	ug/l	99
26) 2,2-Dichloropropane	4.483	77	196523	47.981	ug/l	100
27) cis-1,2-Dichloroethene	4.495	96	162834	47.103	ug/l	99
28) Bromochloromethane	4.904	49	118739	52.582	ug/l	98
29) Tetrahydrofuran	5.013	42	258151	261.014	ug/l	98
30) Chloroform	5.099	83	263954	47.660	ug/l	100
31) Cyclohexane	5.483	56	232913	46.560	ug/l	97
32) 1,1,1-Trichloroethane	5.391	97	225596	47.325	ug/l	99
36) 1,1-Dichloropropene	5.696	75	179428	47.379	ug/l	99
37) Ethyl Acetate	4.721	43	198822	50.571	ug/l	99
38) Carbon Tetrachloride	5.684	117	196495	47.480	ug/l	97
39) Methylcyclohexane	7.385	83	227398	48.139	ug/l	95
40) Benzene	6.044	78	548553	48.393	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.928	41	81393	49.094 ug/l		94
42) 1,2-Dichloroethane	6.093	62	199161	49.602 ug/l		99
43) Isopropyl Acetate	6.342	43	290517	51.437 ug/l		100
44) Trichloroethene	7.129	130	136195	46.924 ug/l		99
45) 1,2-Dichloropropane	7.428	63	139581	49.152 ug/l		100
46) Dibromomethane	7.580	93	101467	49.216 ug/l		99
47) Bromodichloromethane	7.818	83	213085	49.856 ug/l		99
48) Methyl methacrylate	7.690	41	149931	51.141 ug/l		99
49) 1,4-Dioxane	7.684	88	36343	1275.197 ug/l		96
51) 4-Methyl-2-Pentanone	8.574	43	871077	268.005 ug/l		99
52) Toluene	8.714	92	343297	49.011 ug/l		99
53) t-1,3-Dichloropropene	8.976	75	195614	52.441 ug/l		100
54) cis-1,3-Dichloropropene	8.367	75	214406	50.782 ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	133399	50.160 ug/l		98
56) Ethyl methacrylate	9.116	69	204493	52.154 ug/l		99
57) 1,3-Dichloropropane	9.305	76	229079	50.551 ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	484861	258.666 ug/l		99
59) 2-Hexanone	9.427	43	608467	270.640 ug/l		100
60) Dibromochloromethane	9.519	129	158872	50.268 ug/l		99
61) 1,2-Dibromoethane	9.610	107	136781	49.876 ug/l		99
64) Tetrachloroethene	9.269	164	113583	46.376 ug/l		96
65) Chlorobenzene	10.073	112	376977	46.849 ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	129555	47.629 ug/l		100
67) Ethyl Benzene	10.189	91	656208	47.382 ug/l		99
68) m/p-Xylenes	10.299	106	499398	96.706 ug/l		100
69) o-Xylene	10.640	106	238178	47.927 ug/l		98
70) Styrene	10.653	104	412220	49.091 ug/l		100
71) Bromoform	10.799	173	102529	50.173 ug/l	#	99
73) Isopropylbenzene	10.957	105	631147	48.683 ug/l		99
74) N-amyl acetate	10.842	43	252091	51.206 ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	190203	49.970 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	154268m	50.771 ug/l		
77) Bromobenzene	11.195	156	151602	47.888 ug/l		99
78) n-propylbenzene	11.299	91	752772	48.618 ug/l		99
79) 2-Chlorotoluene	11.360	91	443648	47.399 ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	516490	48.420 ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	32638	47.211 ug/l		99
82) 4-Chlorotoluene	11.451	91	524154	47.507 ug/l		100
83) tert-Butylbenzene	11.713	119	525854	49.413 ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	521624	48.900 ug/l		99
85) sec-Butylbenzene	11.890	105	656494	49.771 ug/l		100
86) p-Isopropyltoluene	12.006	119	548635	49.153 ug/l		99
87) 1,3-Dichlorobenzene	11.963	146	285444	47.198 ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	288167	46.327 ug/l		100
89) n-Butylbenzene	12.329	91	520953	50.180 ug/l		100
90) Hexachloroethane	12.536	117	96627	49.346 ug/l		100
91) 1,2-Dichlorobenzene	12.329	146	272826	47.527 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	37072	50.361 ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	185776	48.275 ug/l		98
94) Hexachlorobutadiene	13.719	225	70719	51.627 ug/l		98
95) Naphthalene	13.774	128	565526	51.423 ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	176412	48.632 ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

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

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

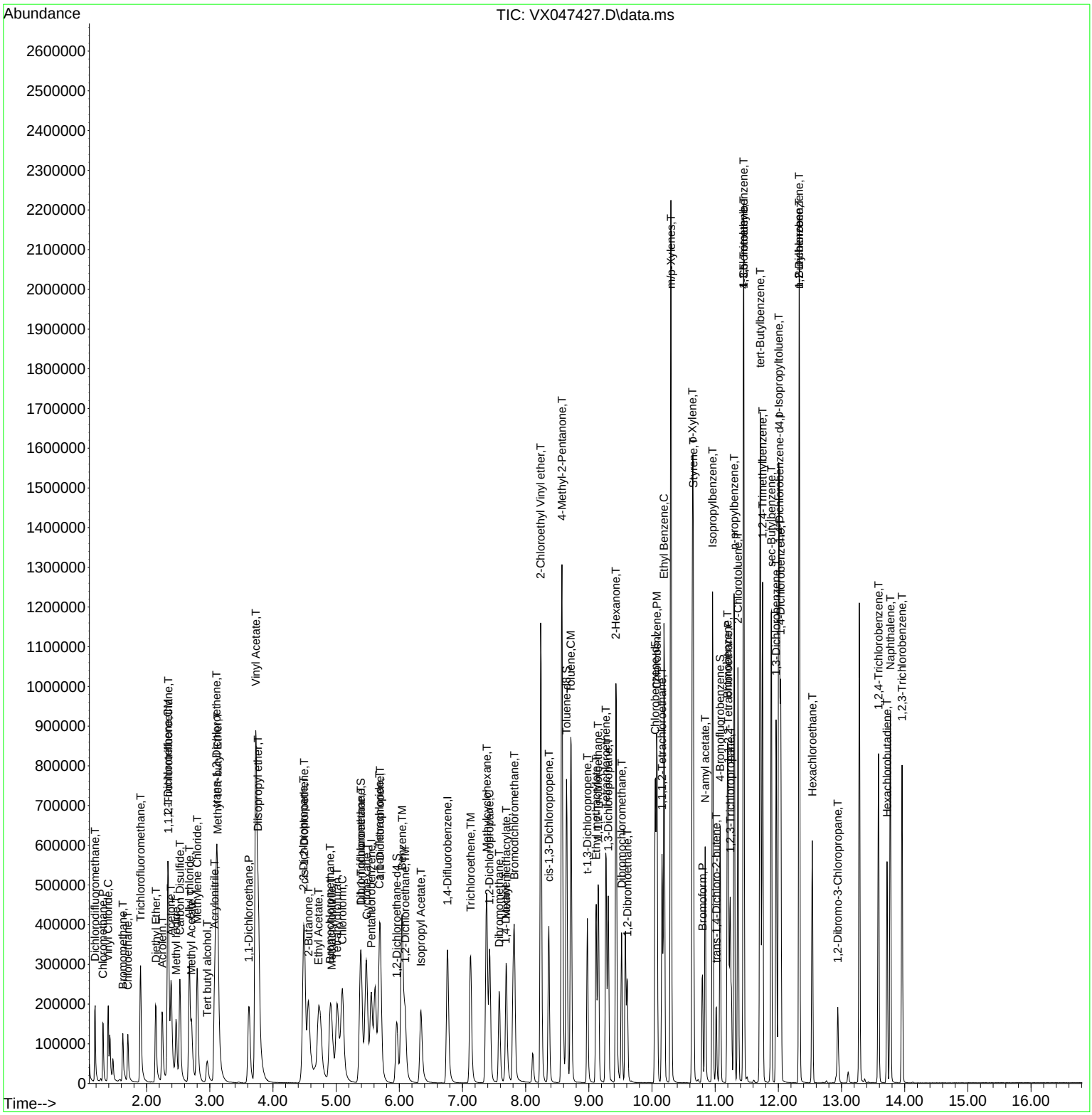
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

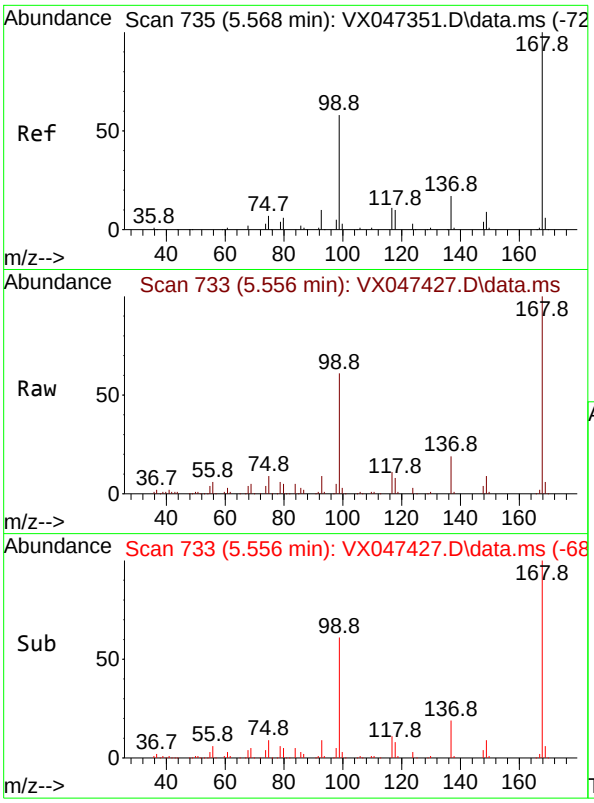
Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

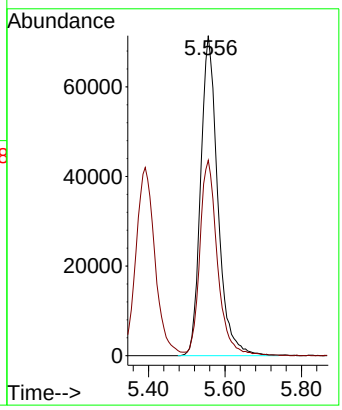




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:168 Resp: 22210

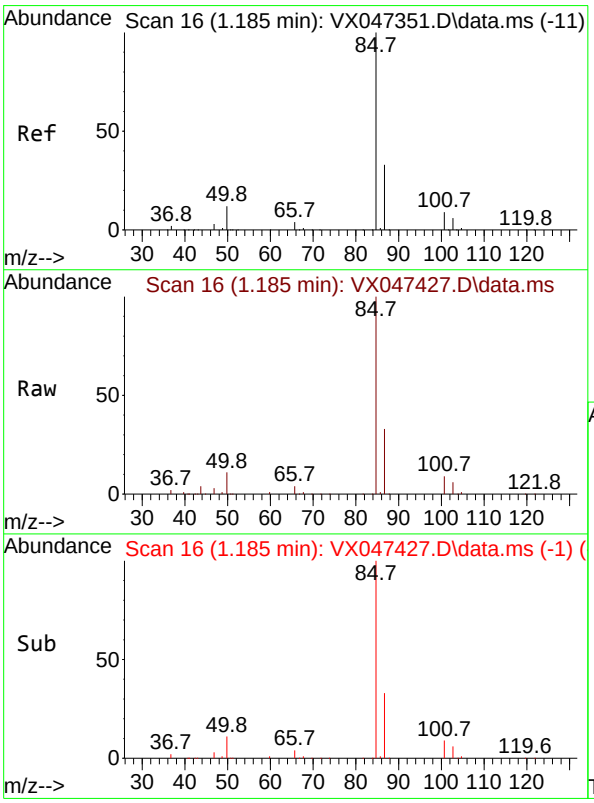
Ion	Ratio	Lower	Upper
168	100		
99	60.9	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

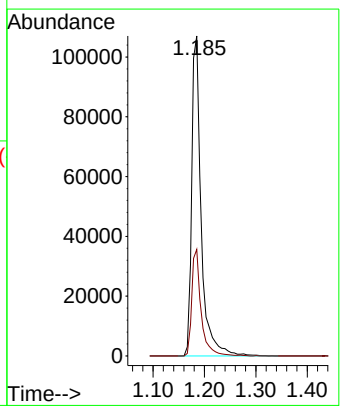
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

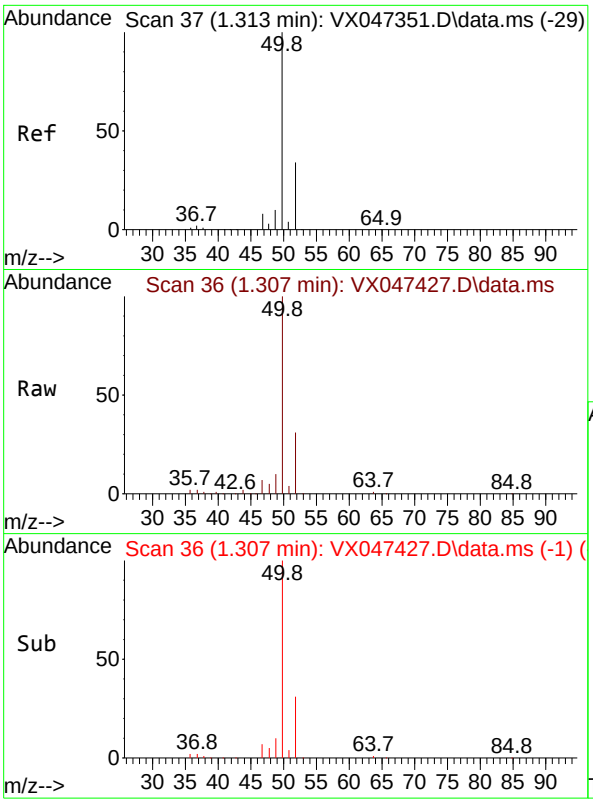


#2
Dichlorodifluoromethane
Concen: 48.557 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 85 Resp: 137479

Ion	Ratio	Lower	Upper
85	100		
87	33.3	16.4	49.1

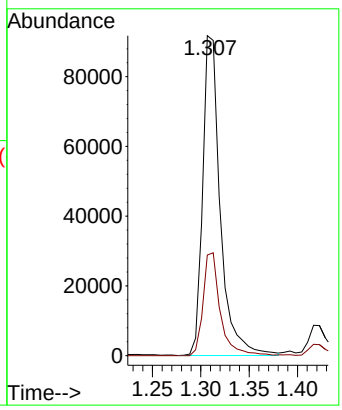




#3
Chloromethane
Concen: 45.729 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 50 Resp: 11647

Ion	Ratio	Lower	Upper
50	100		
52	31.5	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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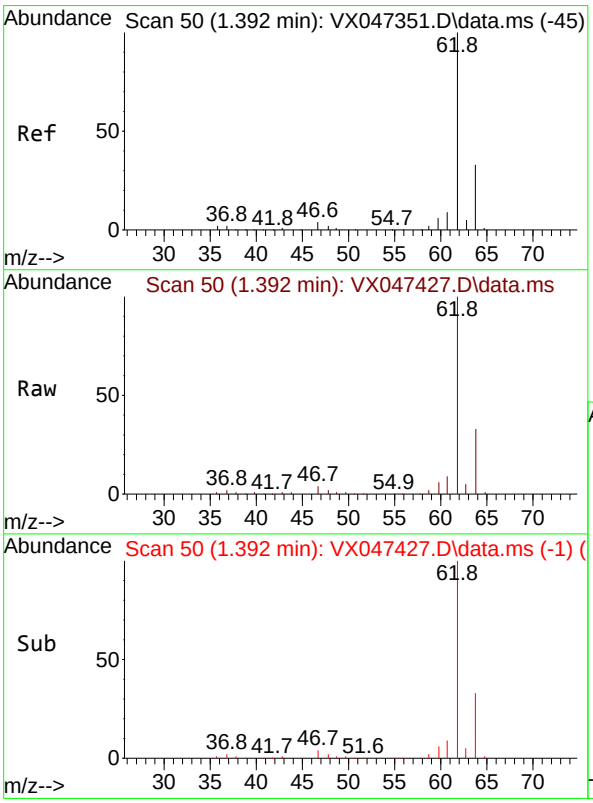
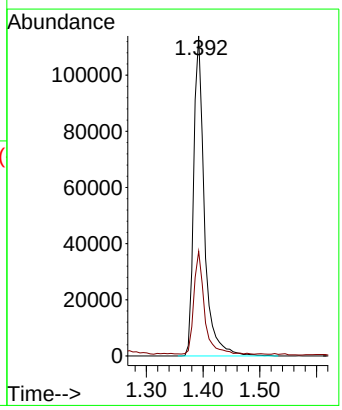
Supervised By :Mahesh Dadoda 08/22/2025

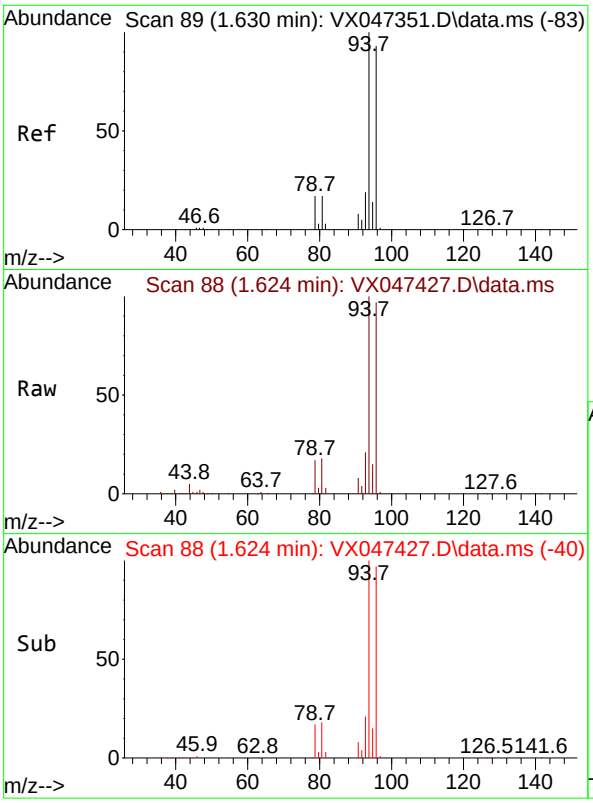


#4
Vinyl Chloride
Concen: 46.643 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 62 Resp: 149112

Ion	Ratio	Lower	Upper
62	100		
64	32.2	26.5	39.7





#5
Bromomethane
Concen: 48.121 ug/l
RT: 1.624 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 94 Resp: 6213

Ion	Ratio	Lower	Upper
94	100		
96	97.1	74.7	112.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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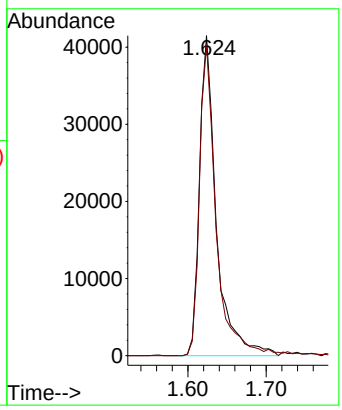
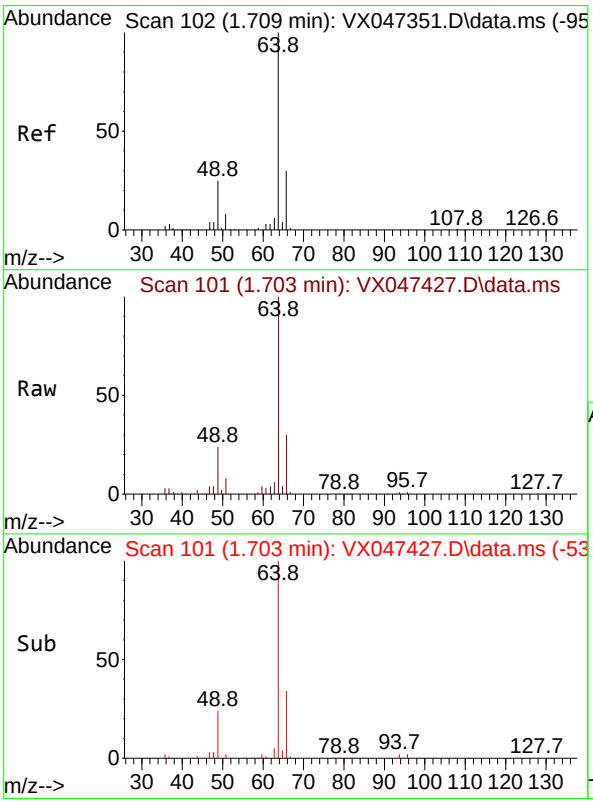
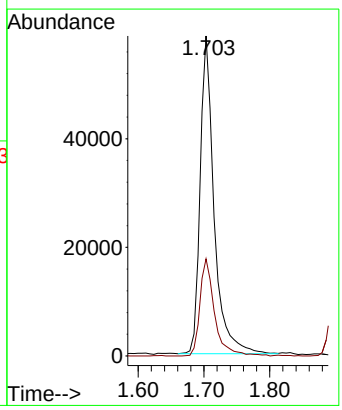


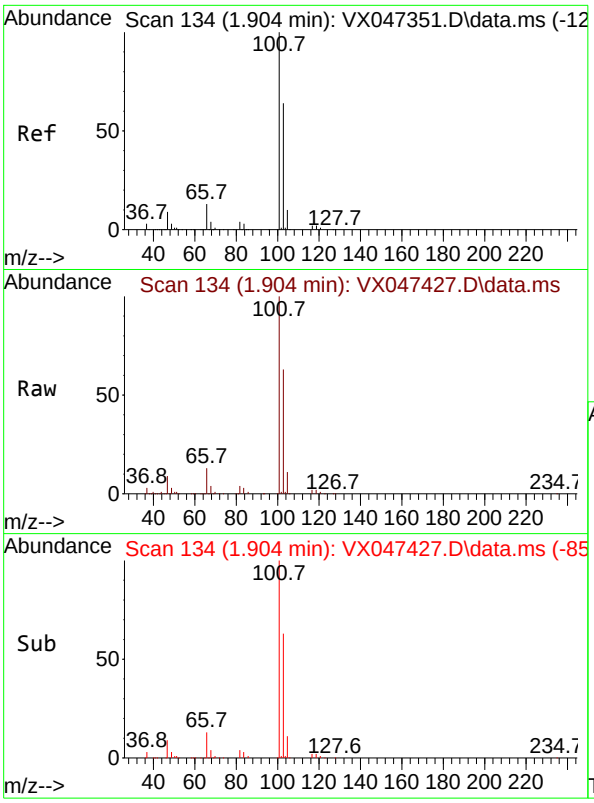


#6
Chloroethane
Concen: 44.036 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 64 Resp: 86133

Ion	Ratio	Lower	Upper
64	100		
66	30.6	24.4	36.6

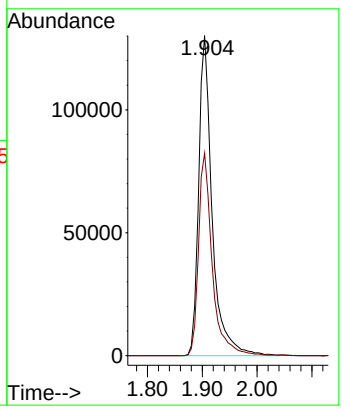




#7
Trichlorofluoromethane
Concen: 47.149 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:101 Resp: 22295

Ion	Ratio	Lower	Upper
101	100		
103	63.3	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
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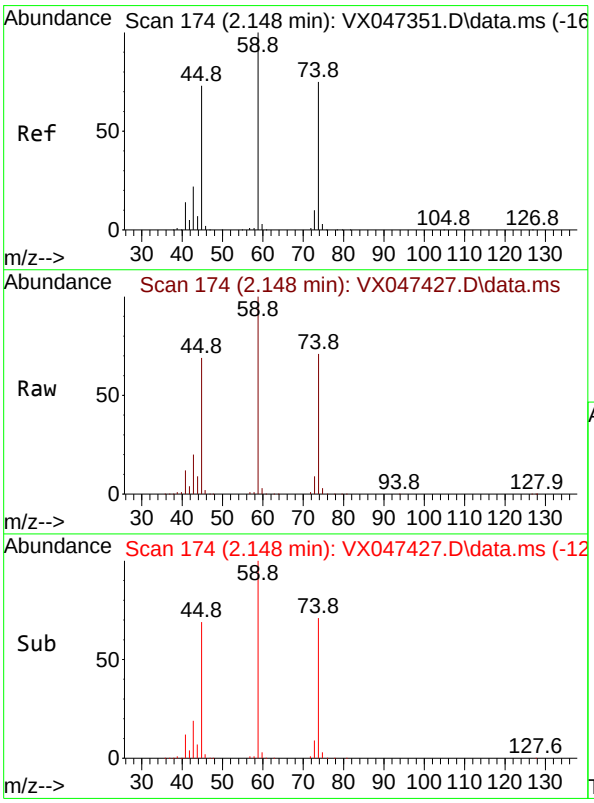
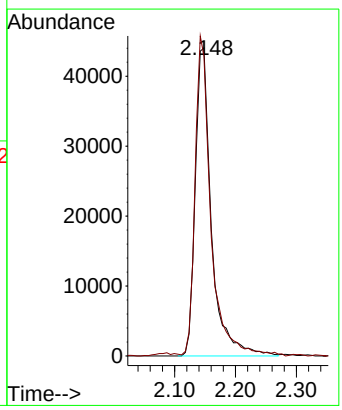
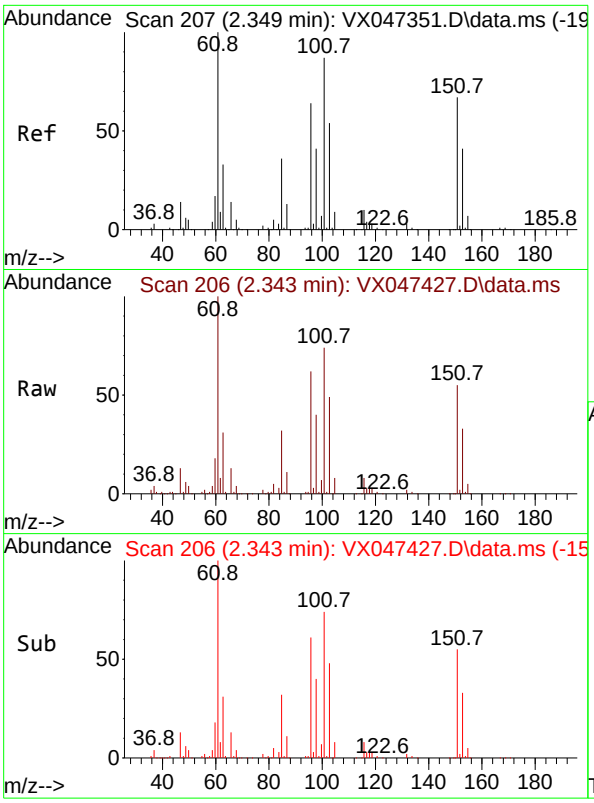


#8
Diethyl Ether
Concen: 48.968 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 74 Resp: 81534

Ion	Ratio	Lower	Upper
74	100		
45	101.0	51.3	154.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.129 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:101 Resp: 13750

Ion	Ratio	Lower	Upper
101	100		
85	43.7	34.3	51.5
151	72.7	59.2	88.8

Instrument :
MSVOA_X
ClientSampleId :
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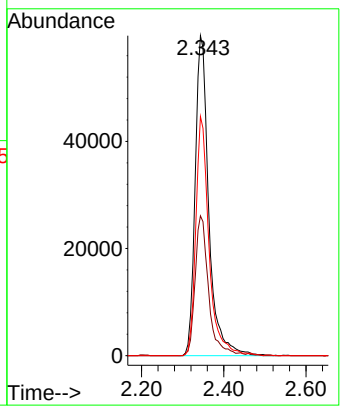
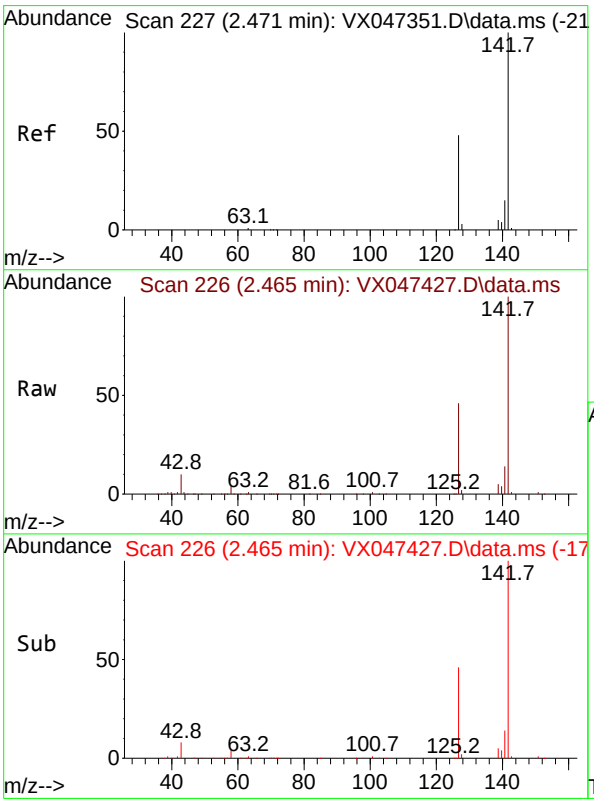
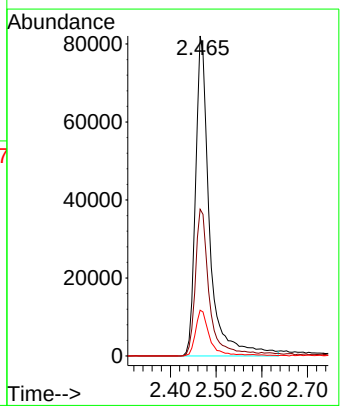


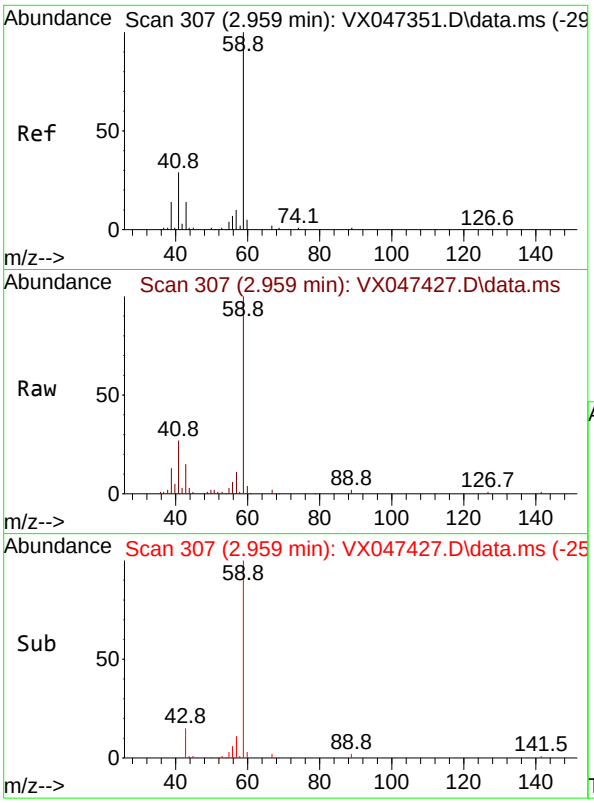


#10
Methyl Iodide
Concen: 37.360 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:142 Resp: 175616

Ion	Ratio	Lower	Upper
142	100		
127	45.6	36.1	54.1
141	14.2	11.1	16.7

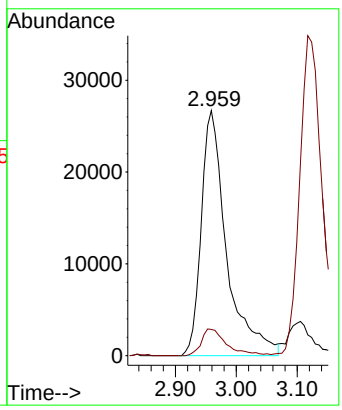




#11
Tert butyl alcohol
Concen: 285.760 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 59 Resp: 7727

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.3	12.5



Instrument :
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ClientSampleId :
VSTDCCC050

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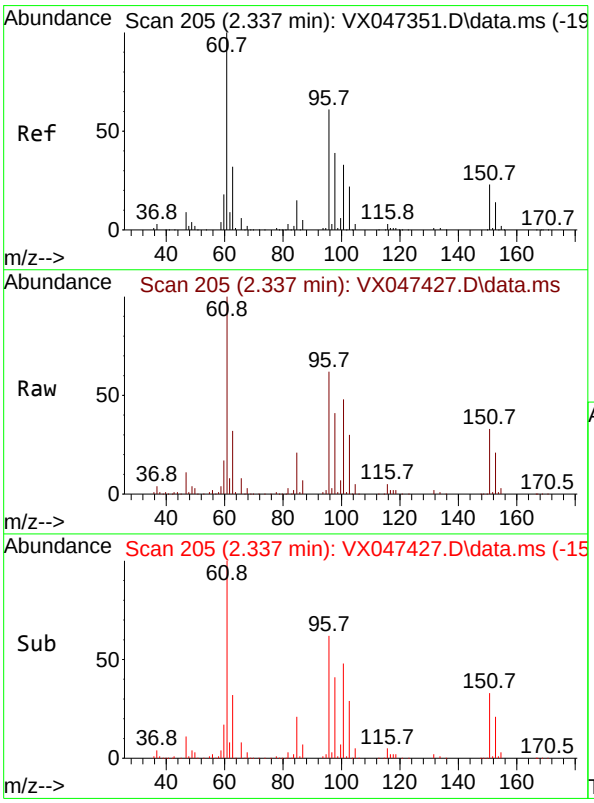
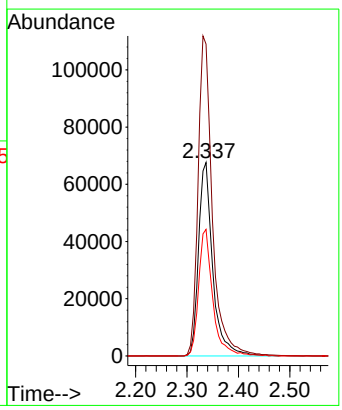
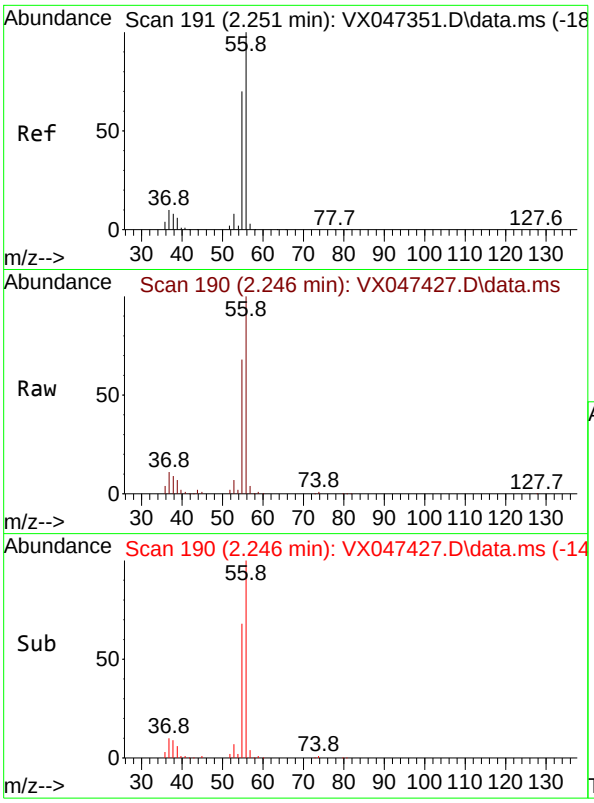


#12
1,1-Dichloroethene
Concen: 46.532 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 96 Resp: 130124

Ion	Ratio	Lower	Upper
96	100		
61	161.3	132.2	198.2
98	65.4	51.2	76.8

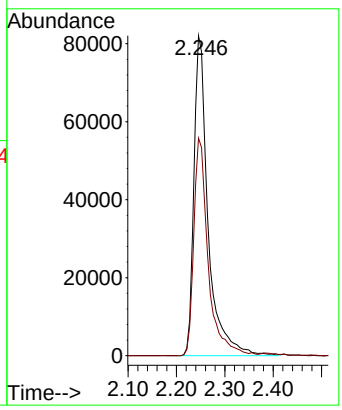




#13
Acrolein
Concen: 292.470 ug/l
RT: 2.246 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 56 Resp: 16695

Ion	Ratio	Lower	Upper
56	100		
55	69.0	55.5	83.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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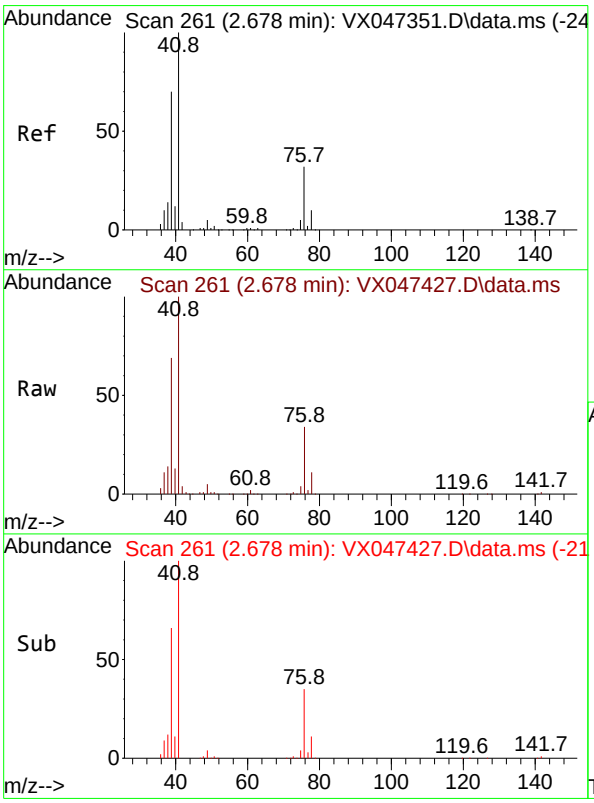
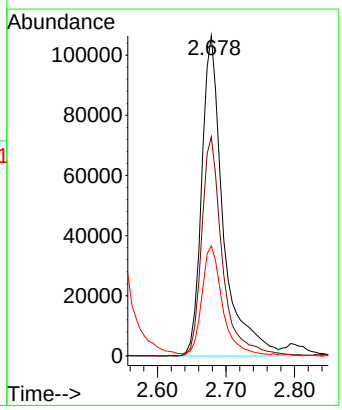
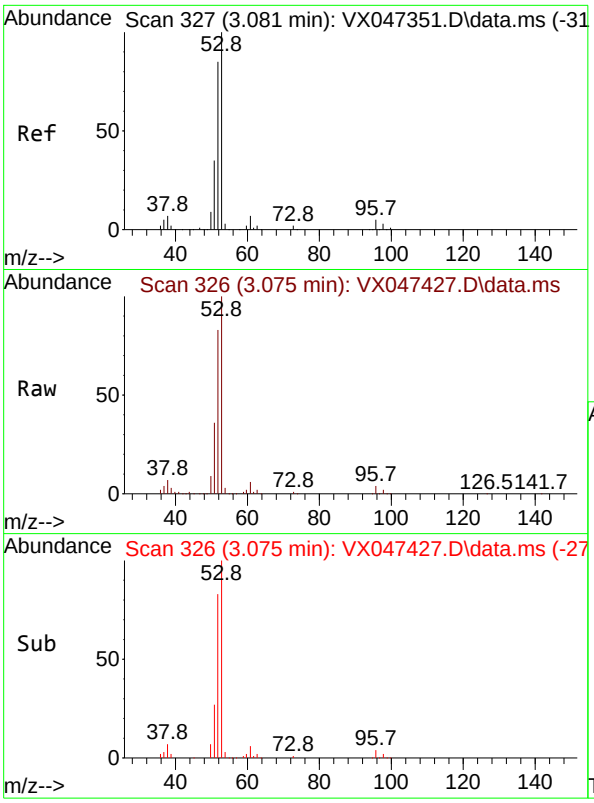


#14
Allyl chloride
Concen: 48.177 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 41 Resp: 233998

Ion	Ratio	Lower	Upper
41	100		
39	65.8	54.6	81.8
76	32.5	27.6	41.4





#15
Acrylonitrile
Concen: 264.563 ug/l
RT: 3.075 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 53 Resp: 34569

Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.8	98.6
51	36.0	28.2	42.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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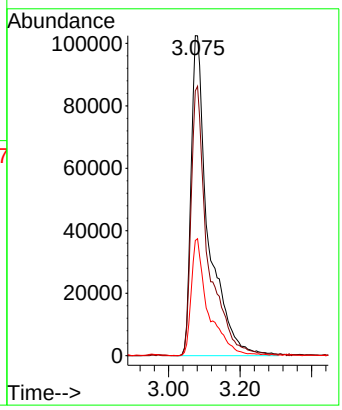
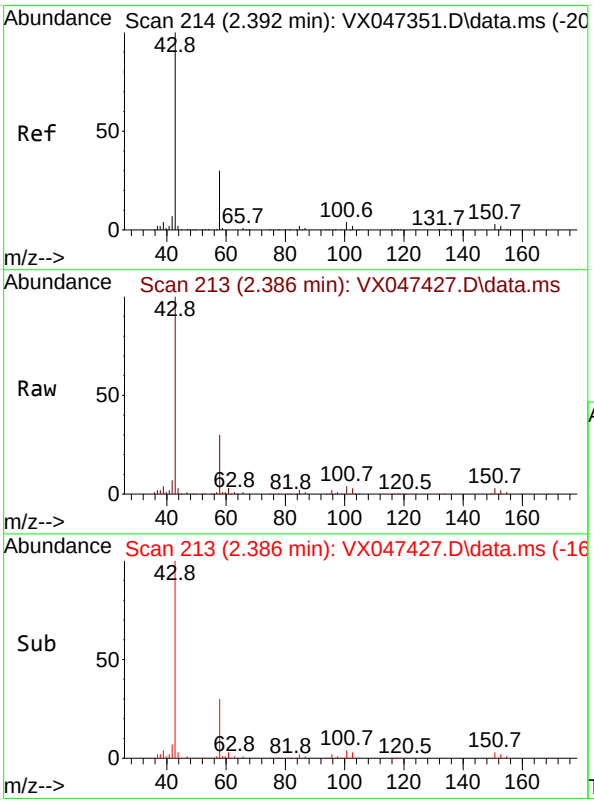
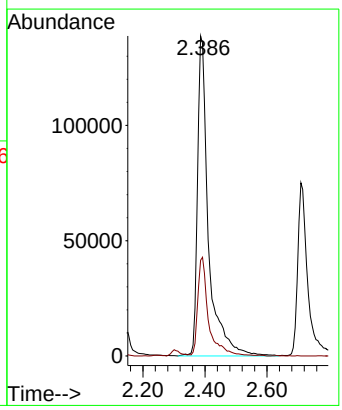


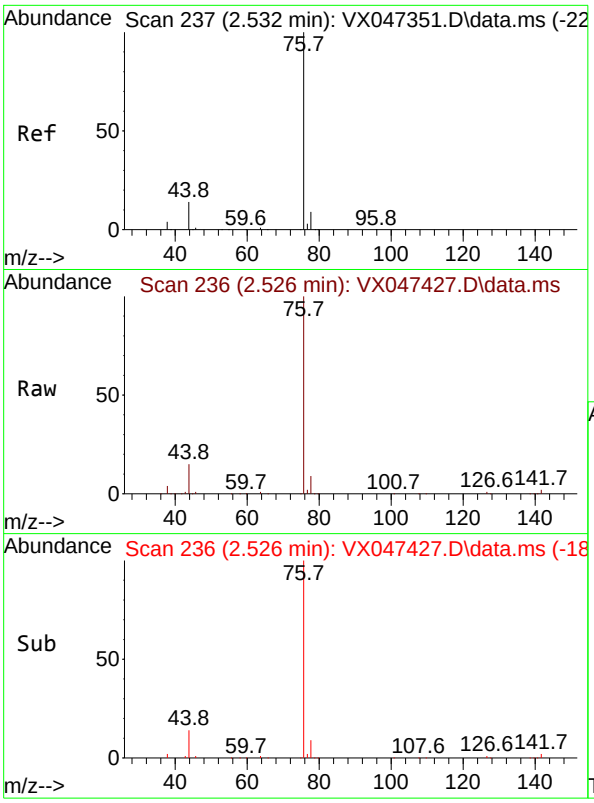


#16
Acetone
Concen: 290.885 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 43 Resp: 339865

Ion	Ratio	Lower	Upper
43	100		
58	29.8	24.8	37.2





#17
Carbon Disulfide
Concen: 43.008 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 76 Resp: 36292

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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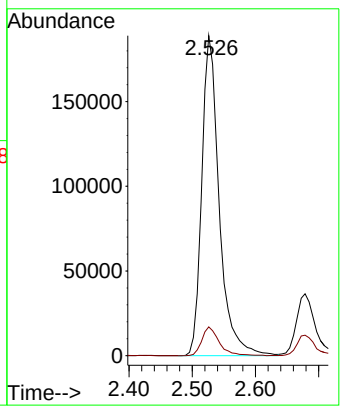
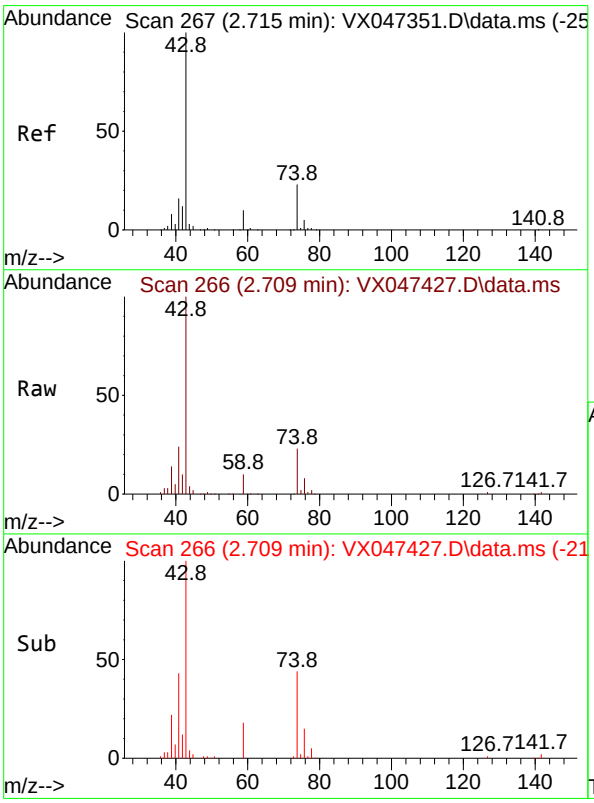
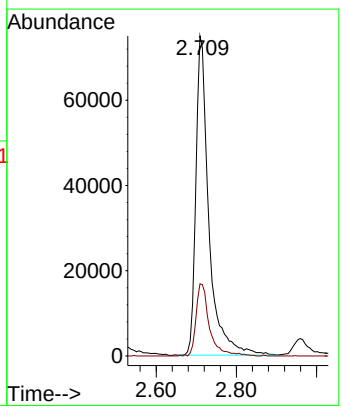


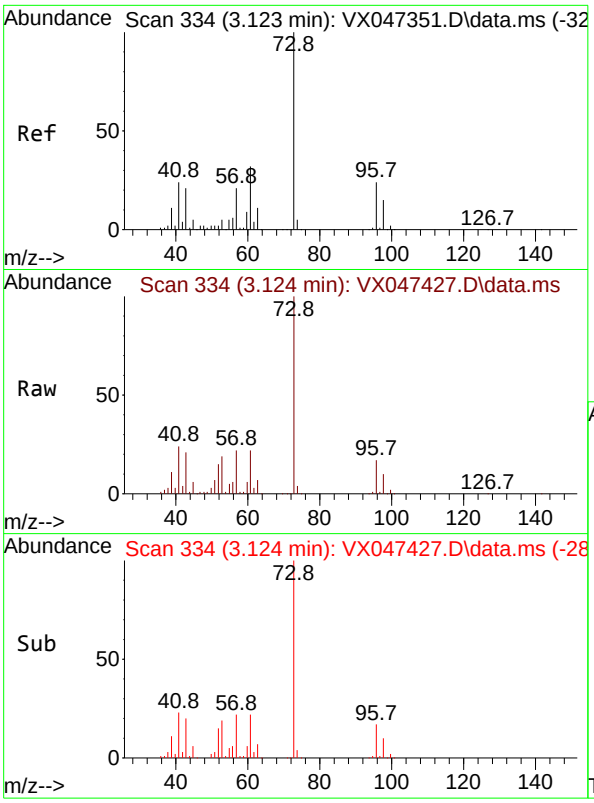


#18
Methyl Acetate
Concen: 55.608 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 43 Resp: 168367

Ion	Ratio	Lower	Upper
43	100		
74	23.4	18.4	27.6

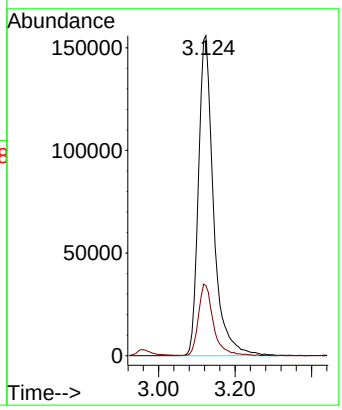




#19
Methyl tert-butyl Ether
Concen: 50.130 ug/l
RT: 3.124 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 73 Resp: 42647

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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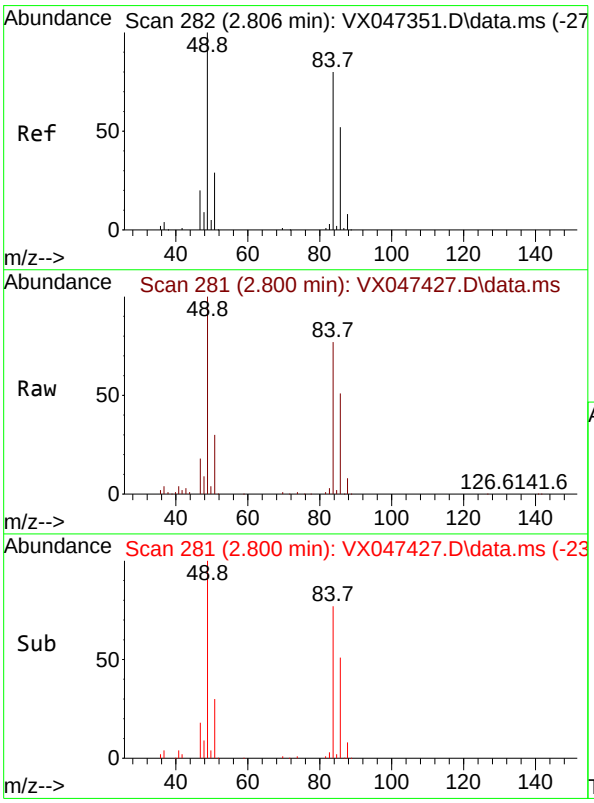
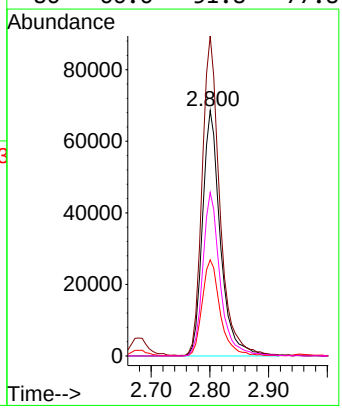
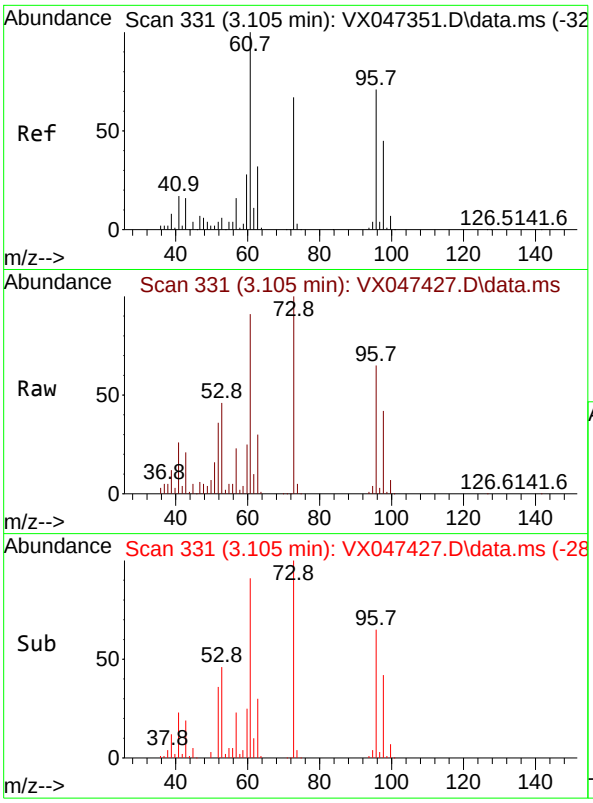


#20
Methylene Chloride
Concen: 46.976 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 84 Resp: 145340

Ion	Ratio	Lower	Upper
84	100		
49	130.2	100.1	150.1
51	39.1	29.5	44.3
86	66.6	51.8	77.8

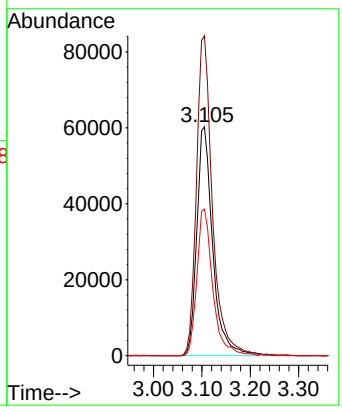




#21
trans-1,2-Dichloroethene
Concen: 46.500 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 96 Resp: 13801

Ion	Ratio	Lower	Upper
96	100		
61	139.7	112.6	169.0
98	64.0	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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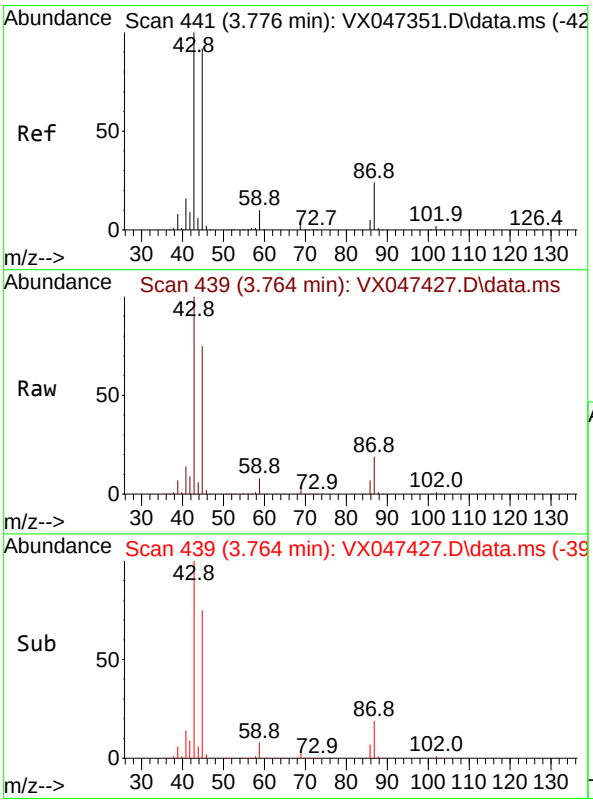
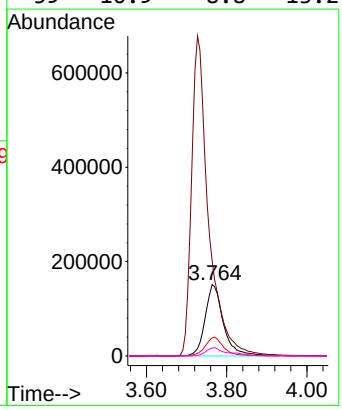
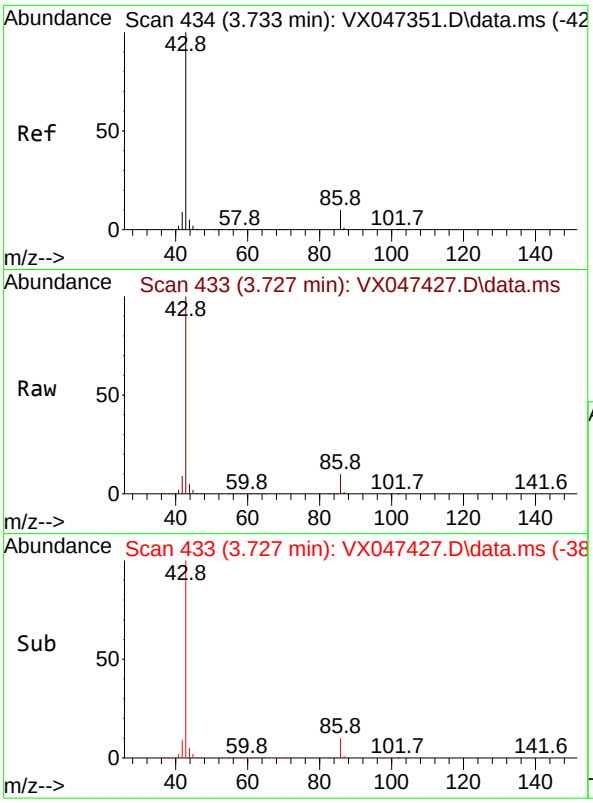


#22
Diisopropyl ether
Concen: 49.981 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.012 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 45 Resp: 479860

Ion	Ratio	Lower	Upper
45	100		
43	133.4	86.8	130.2#
87	25.5	20.4	30.6
59	10.9	8.8	13.2

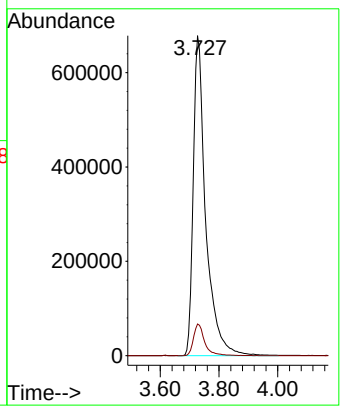




#23
Vinyl Acetate
Concen: 254.613 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 43 Resp: 200362

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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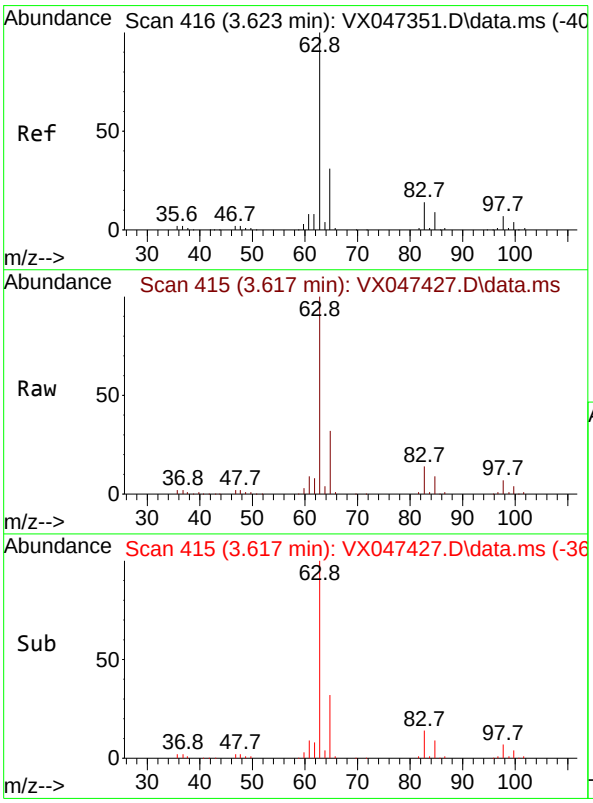
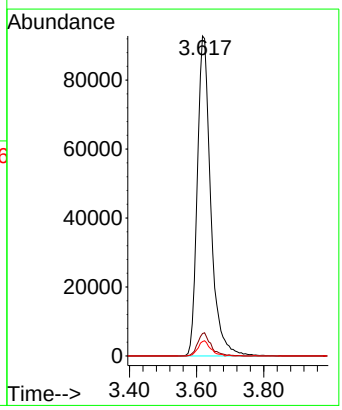
Supervised By :Mahesh Dadoda 08/22/2025

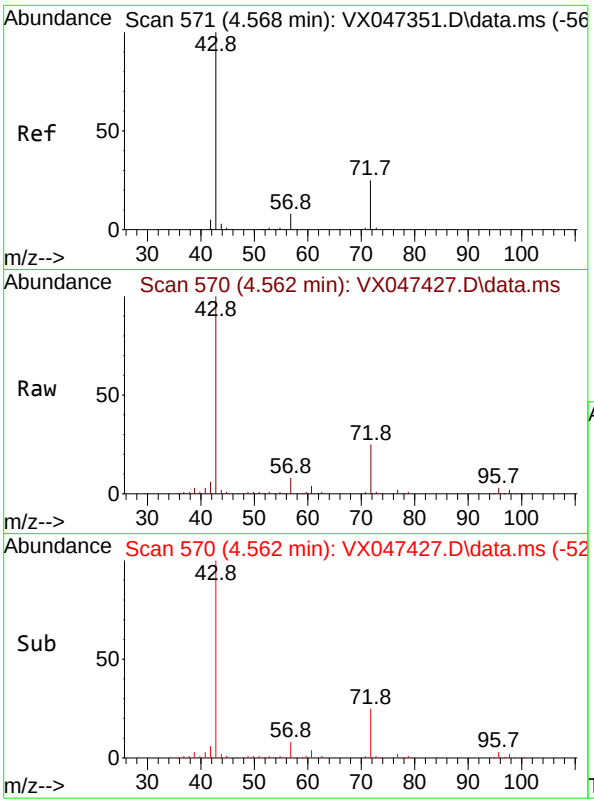


#24
1,1-Dichloroethane
Concen: 47.405 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 63 Resp: 257251

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.9
100	4.7	2.1	6.3





#25
2-Butanone
Concen: 282.551 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 43 Resp: 43236

Ion	Ratio	Lower	Upper
43	100		
72	25.4	19.8	29.8

Instrument :
MSVOA_X
ClientSampleId :
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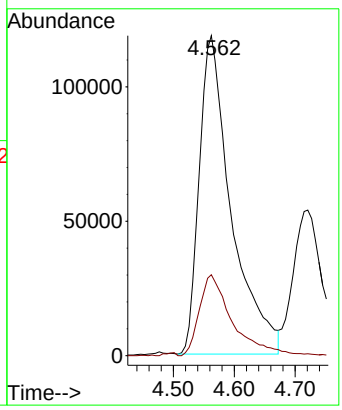
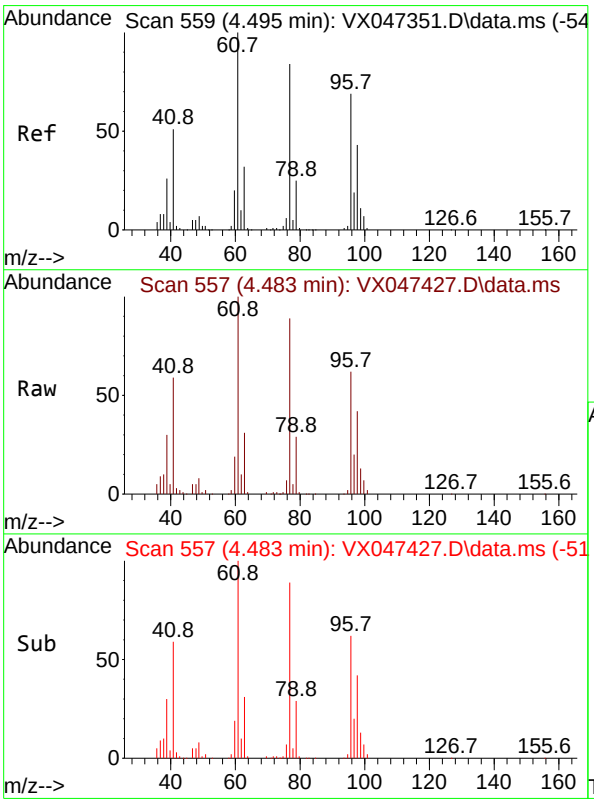
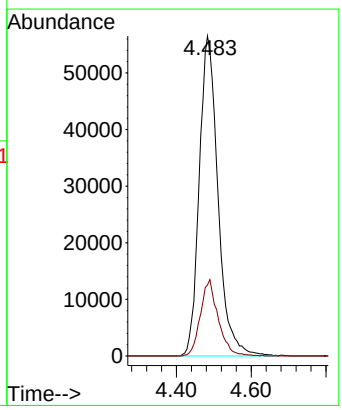


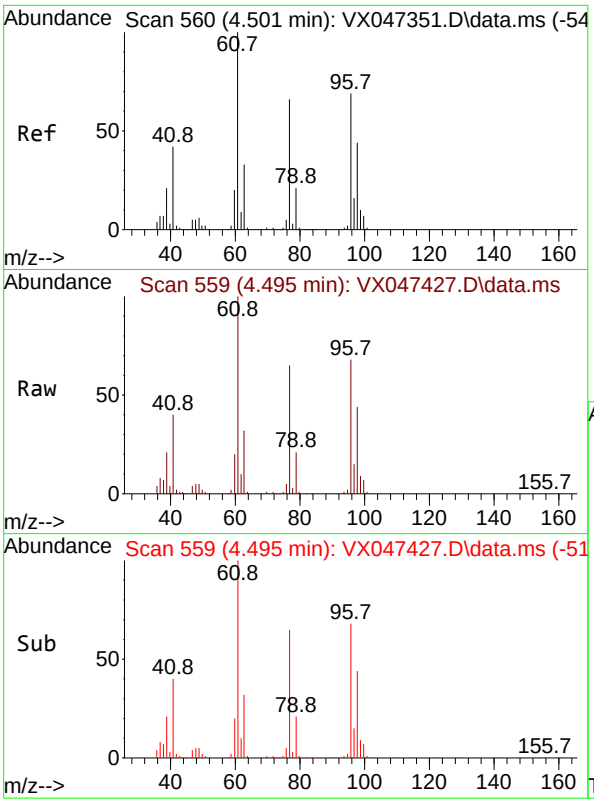


#26
2,2-Dichloropropane
Concen: 47.981 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.012 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 77 Resp: 196523

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.4	34.1

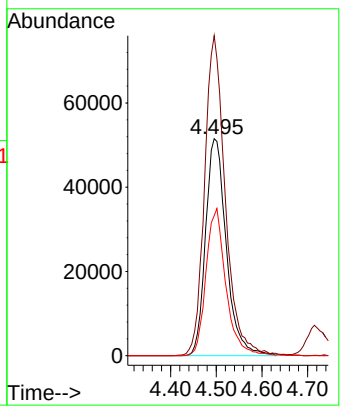




#27
cis-1,2-Dichloroethene
Concen: 47.103 ug/l
RT: 4.495 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 96 Resp: 16283

Ion	Ratio	Lower	Upper
96	100		
61	147.3	0.0	296.6
98	65.1	0.0	130.4



Instrument :
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ClientSampleId :
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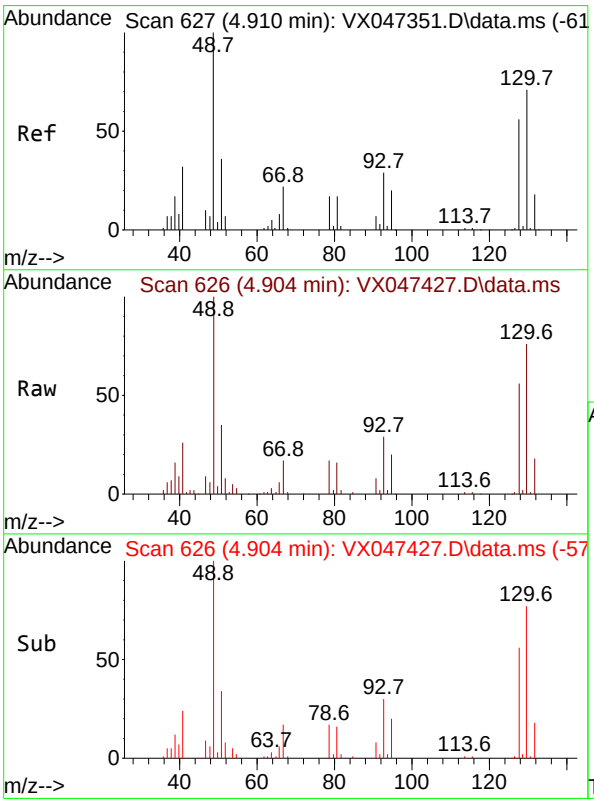
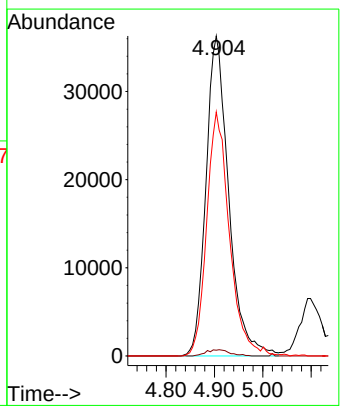
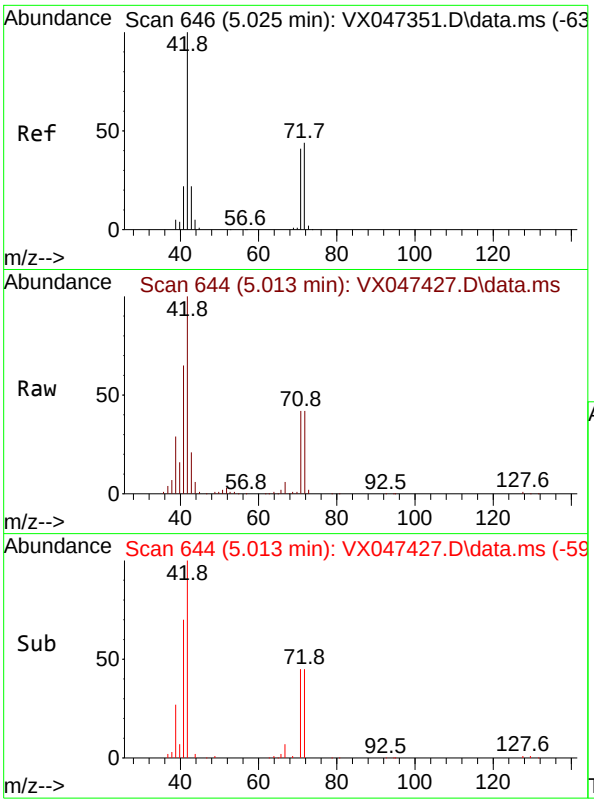


#28
Bromochloromethane
Concen: 52.582 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 49 Resp: 118739

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	76.2	59.8	89.6





#29
Tetrahydrofuran
Concen: 261.014 ug/l
RT: 5.013 min Scan# 64
Delta R.T. -0.012 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 42 Resp: 25815

Ion	Ratio	Lower	Upper
42	100		
72	45.0	34.6	51.8
71	41.1	32.6	49.0

Instrument :
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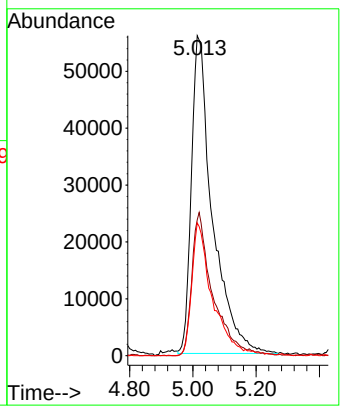
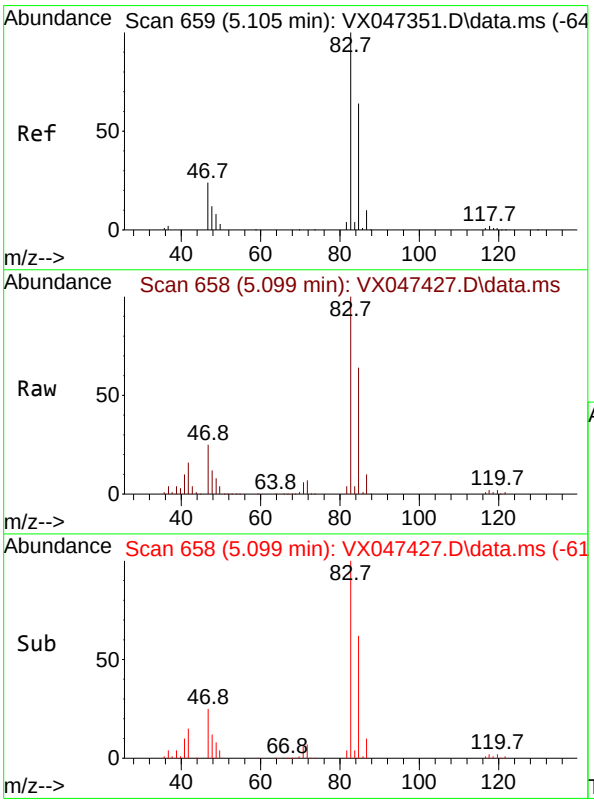
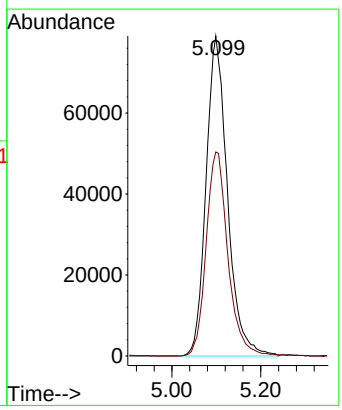


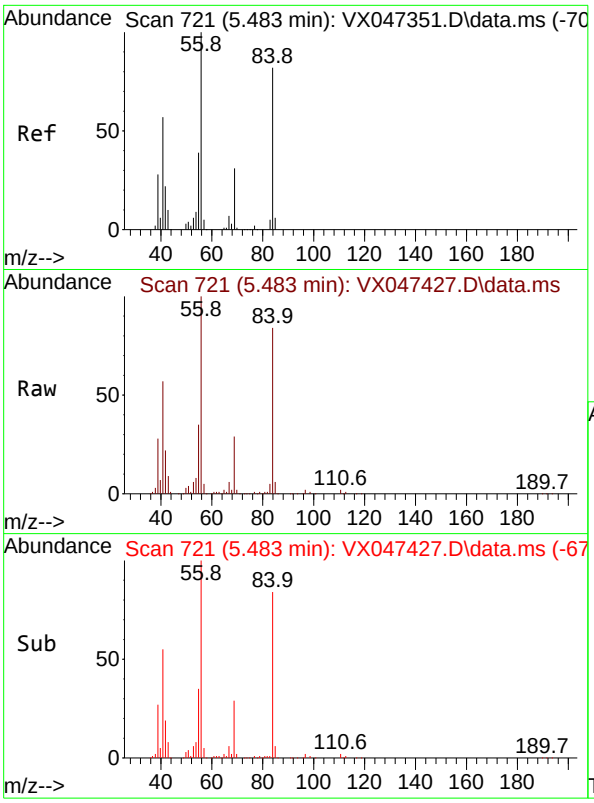


#30
Chloroform
Concen: 47.660 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 83 Resp: 263954

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.2	76.8

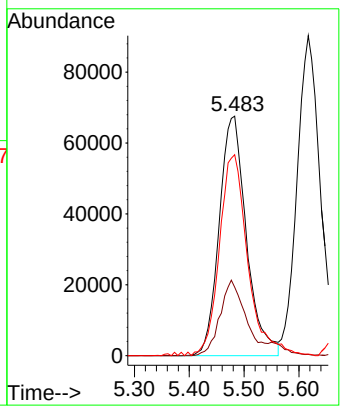




#31
Cyclohexane
Concen: 46.560 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 56 Resp: 23291

Ion	Ratio	Lower	Upper
56	100		
69	28.2	24.3	36.5
84	83.8	65.3	97.9



Instrument :
MSVOA_X
ClientSampleId :
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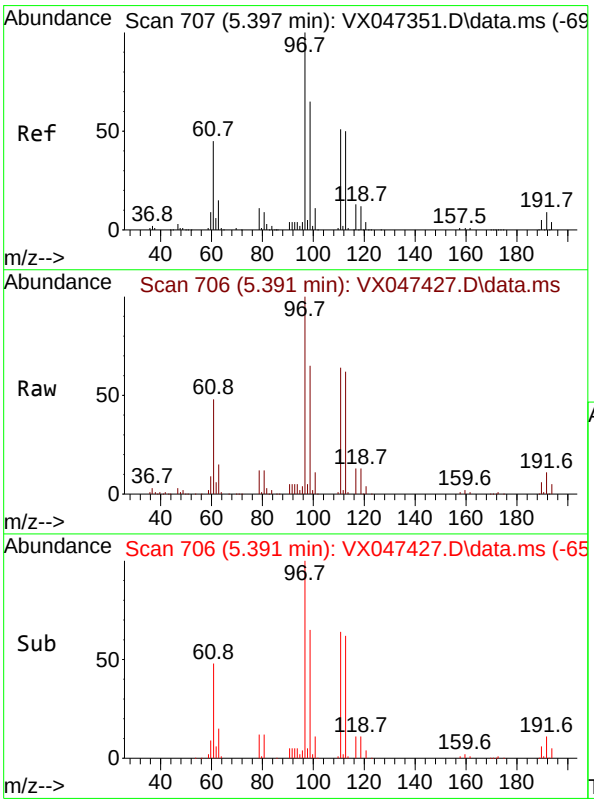
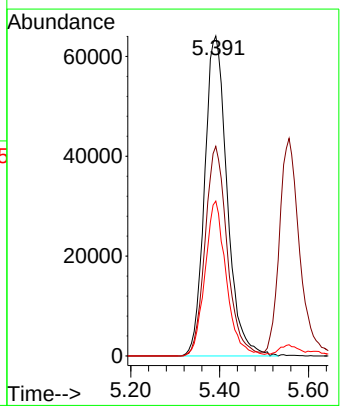
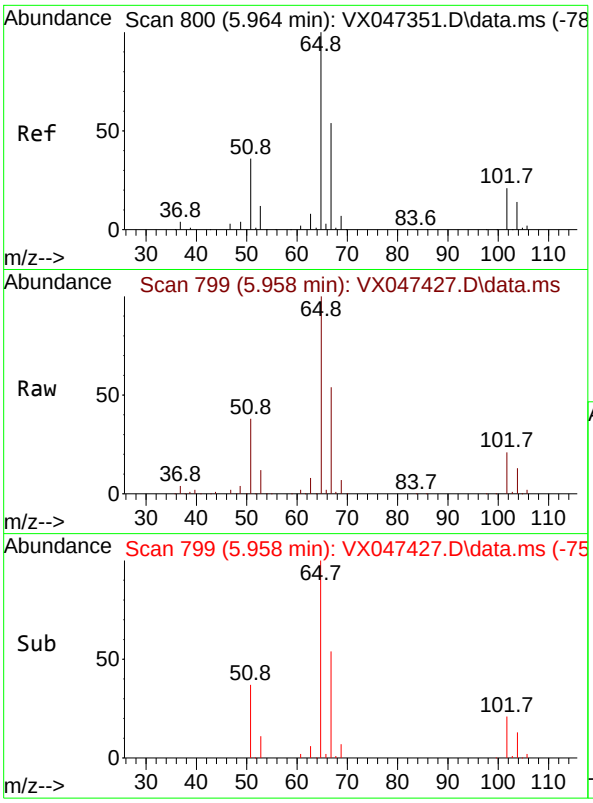


#32
1,1,1-Trichloroethane
Concen: 47.325 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 97 Resp: 225596

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.0
61	45.9	35.7	53.5

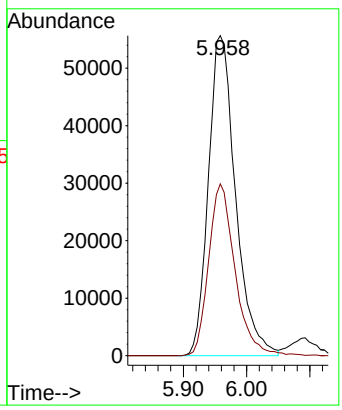




#33
1,2-Dichloroethane-d4
Concen: 53.348 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 65 Resp: 16582

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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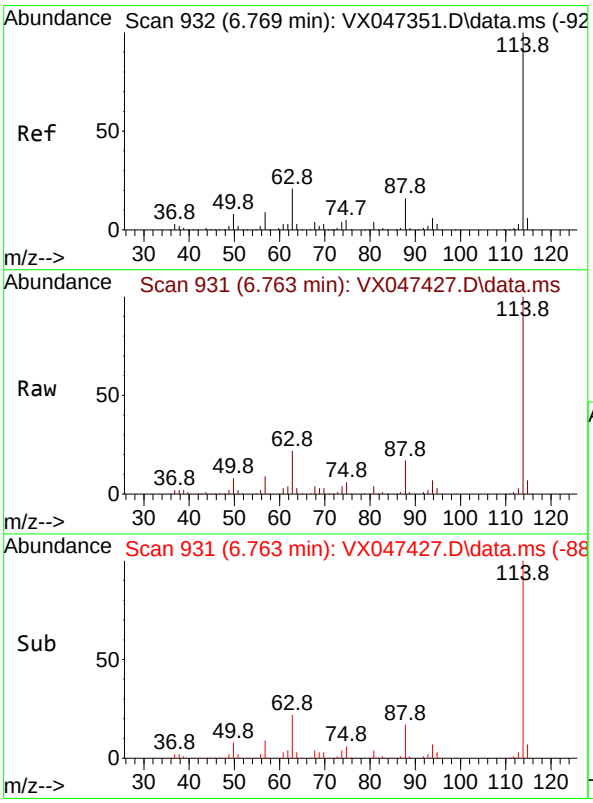
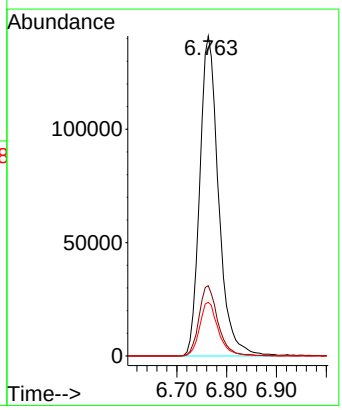
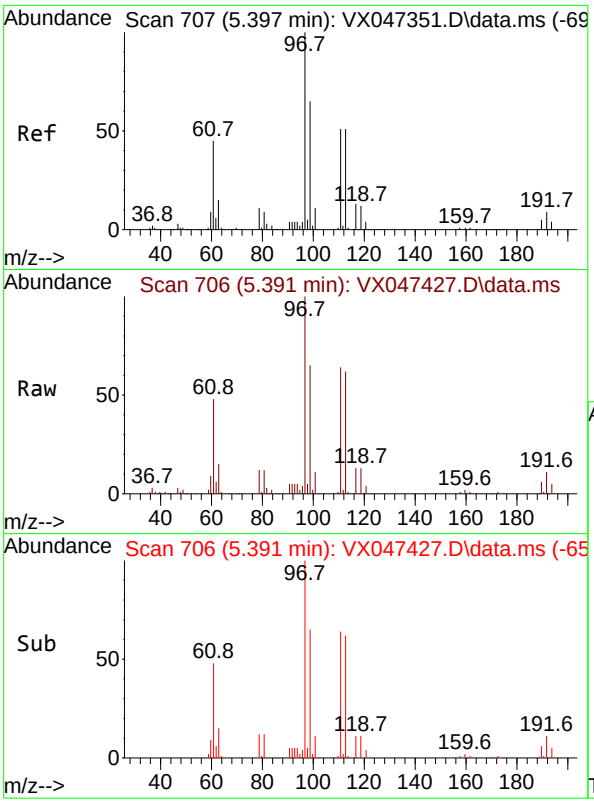


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:114 Resp: 369648

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	42.4
88	16.8	0.0	33.0

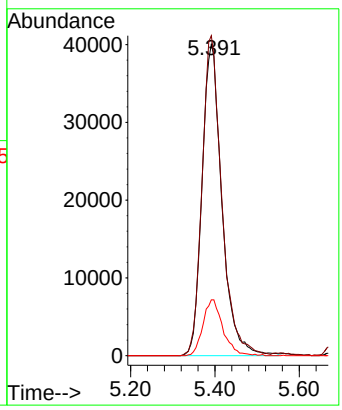




#35
Dibromofluoromethane
Concen: 54.744 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:113 Resp: 13133

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.4	122.2
192	18.1	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
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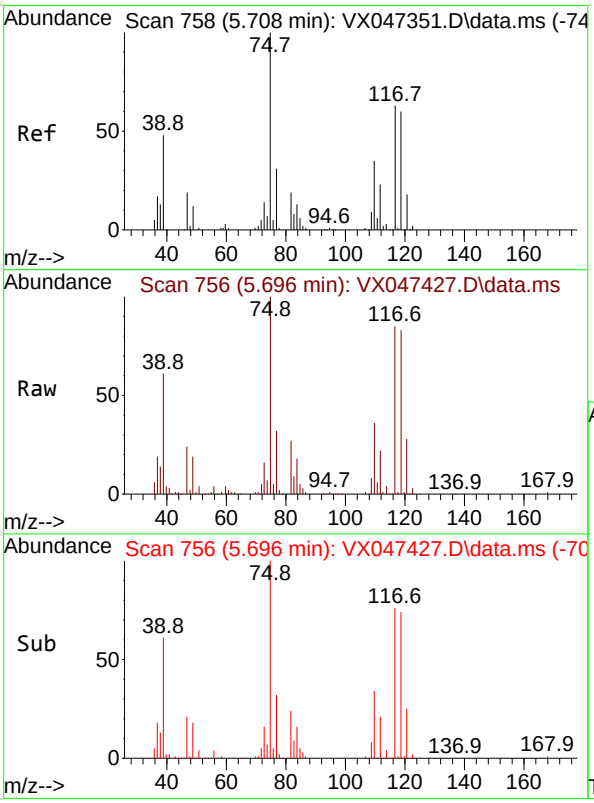
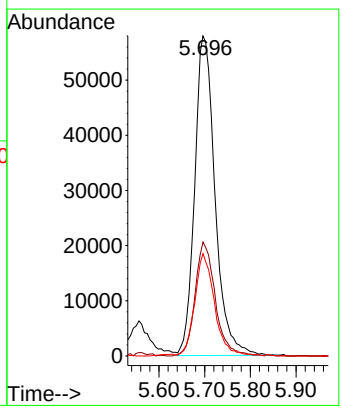
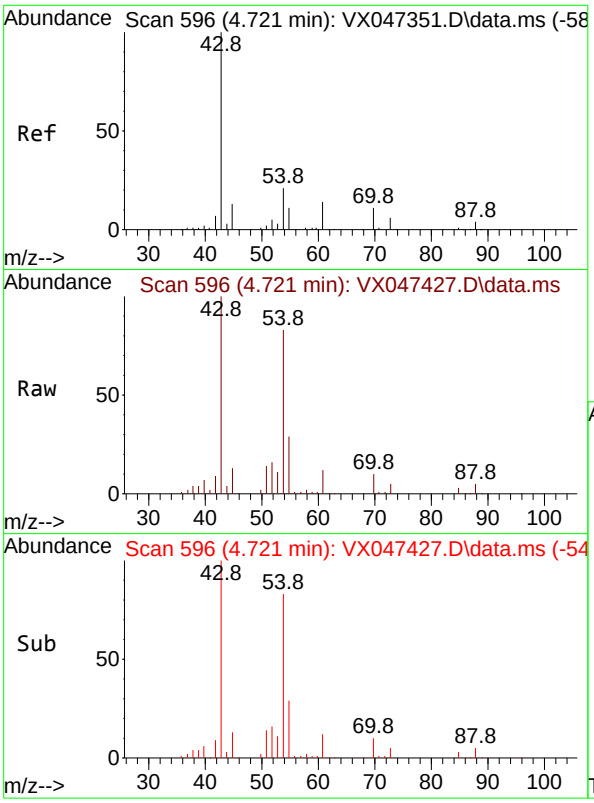


#36
1,1-Dichloropropene
Concen: 47.379 ug/l
RT: 5.696 min Scan# 756
Delta R.T. -0.012 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 75 Resp: 179428

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.4	52.2
77	31.2	24.4	36.6





#37
Ethyl Acetate
Concen: 50.571 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 43 Resp: 19882

Ion	Ratio	Lower	Upper
43	100		
61	11.7	9.4	14.2
70	9.4	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
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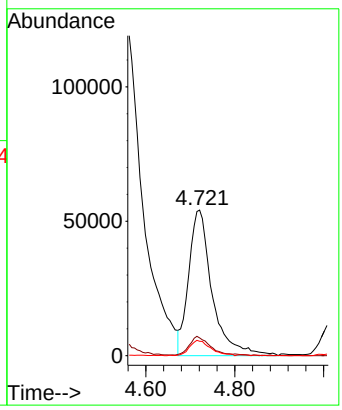
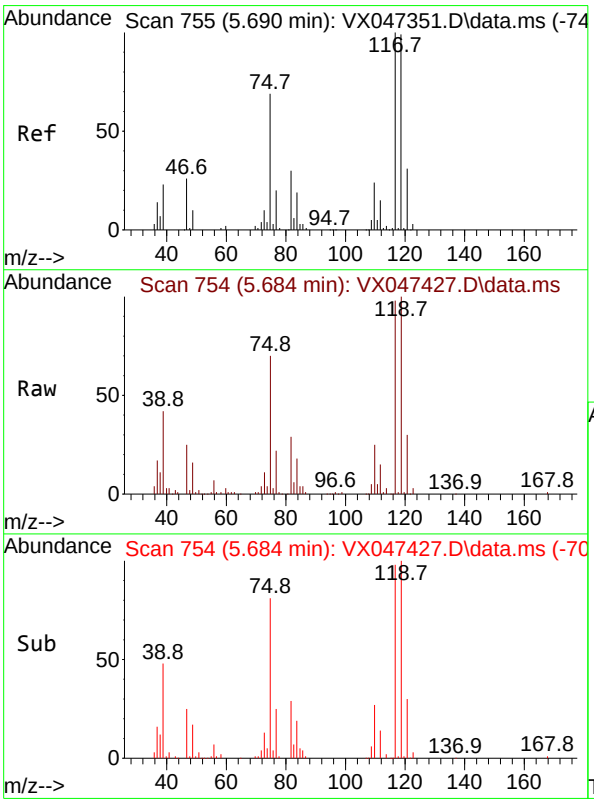
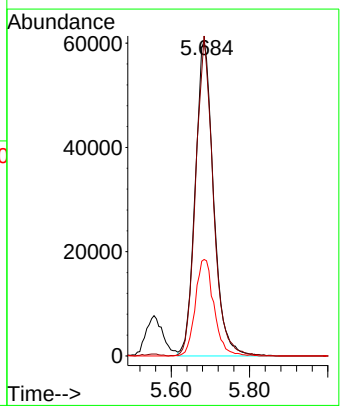


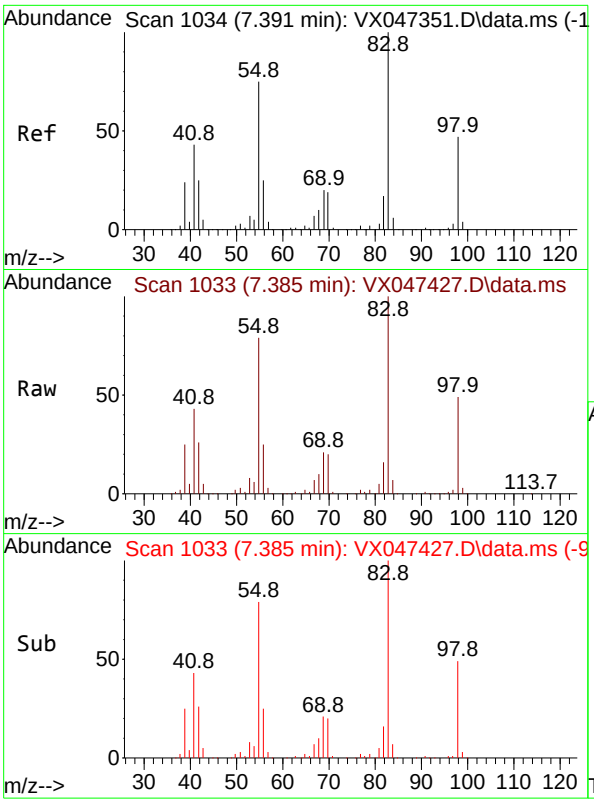


#38
Carbon Tetrachloride
Concen: 47.480 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:117 Resp: 196495

Ion	Ratio	Lower	Upper
117	100		
119	101.6	78.5	117.7
121	30.6	24.7	37.1

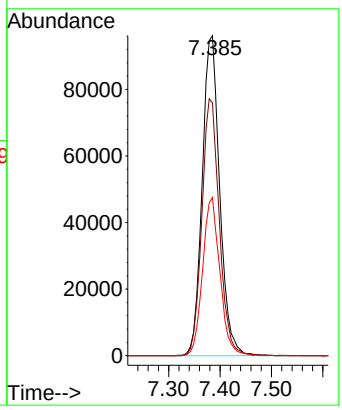




#39
Methylcyclohexane
Concen: 48.139 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 83 Resp: 22739

Ion	Ratio	Lower	Upper
83	100		
55	78.9	60.0	90.0
98	49.5	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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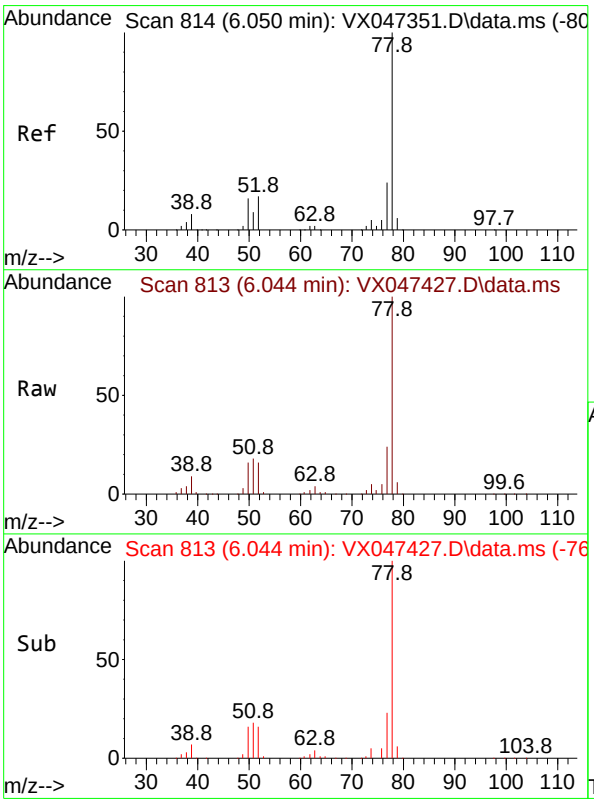
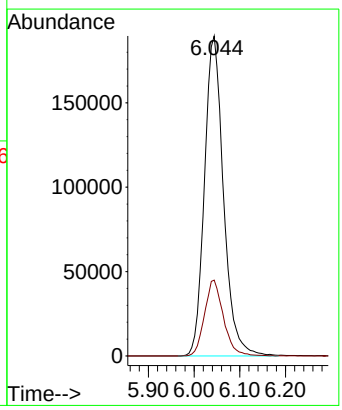
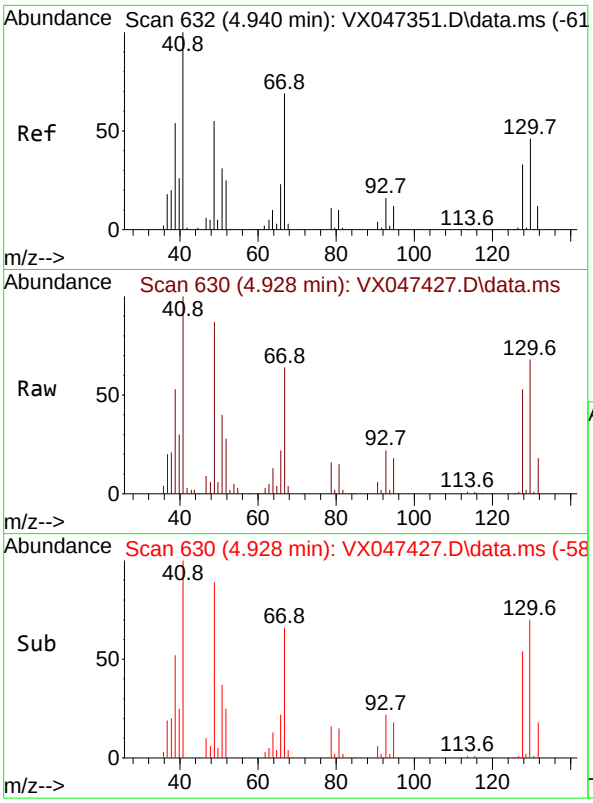


#40
Benzene
Concen: 48.393 ug/l
RT: 6.044 min Scan# 813
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 78 Resp: 548553

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4

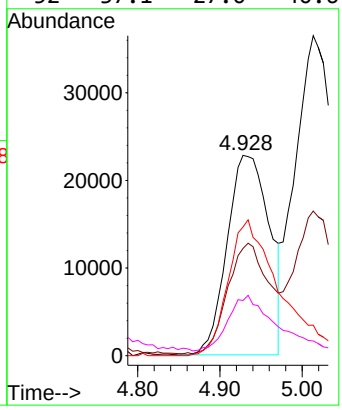




#41
Methacrylonitrile
Concen: 49.094 ug/l
RT: 4.928 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 41 Resp: 8139

Ion	Ratio	Lower	Upper
41	100		
39	53.5	45.4	68.2
67	86.5	64.0	96.0
52	37.1	27.0	40.6



Instrument :
MSVOA_X
ClientSampleId :
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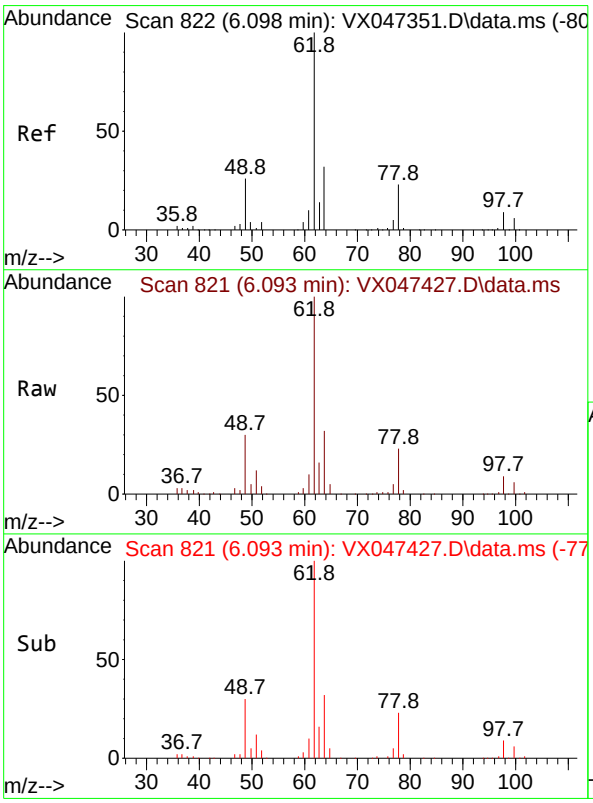
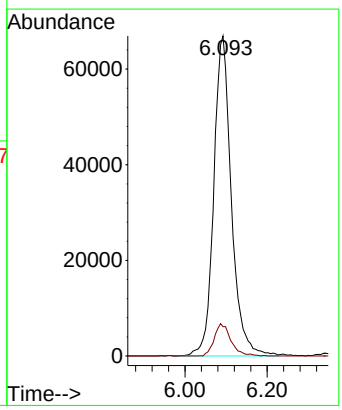
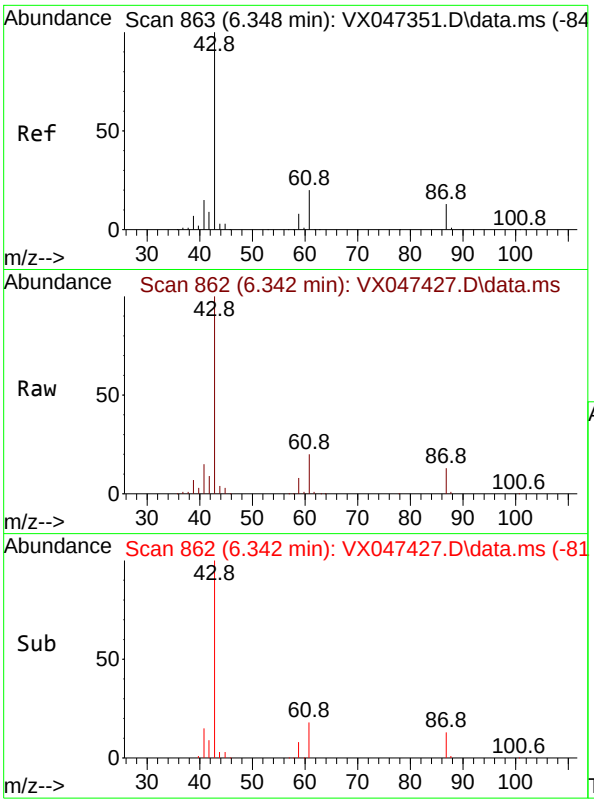


#42
1,2-Dichloroethane
Concen: 49.602 ug/l
RT: 6.093 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 62 Resp: 199161

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.0

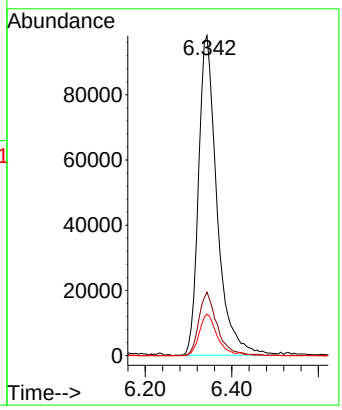




#43
Isopropyl Acetate
Concen: 51.437 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 43 Resp: 29051

Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.4	23.0
87	12.7	10.2	15.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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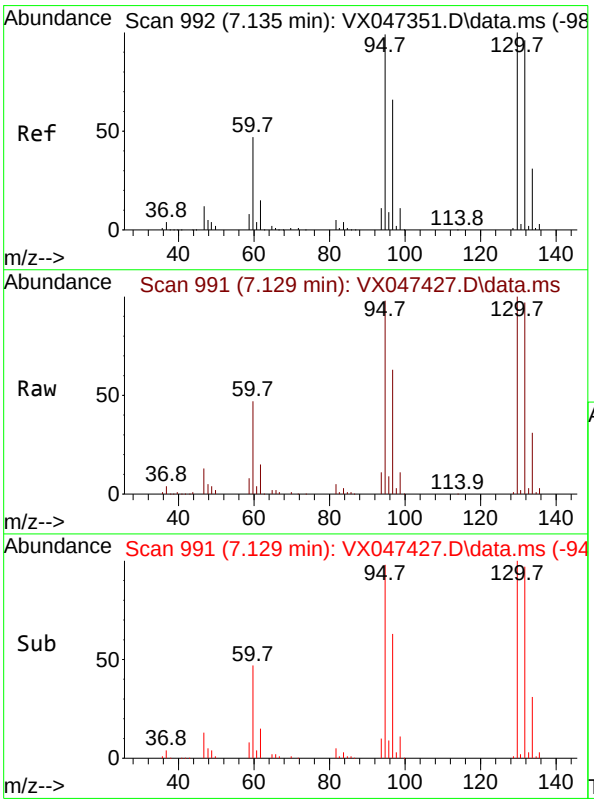
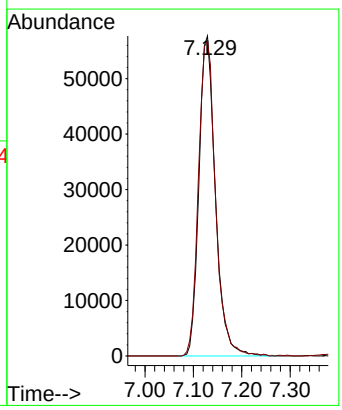
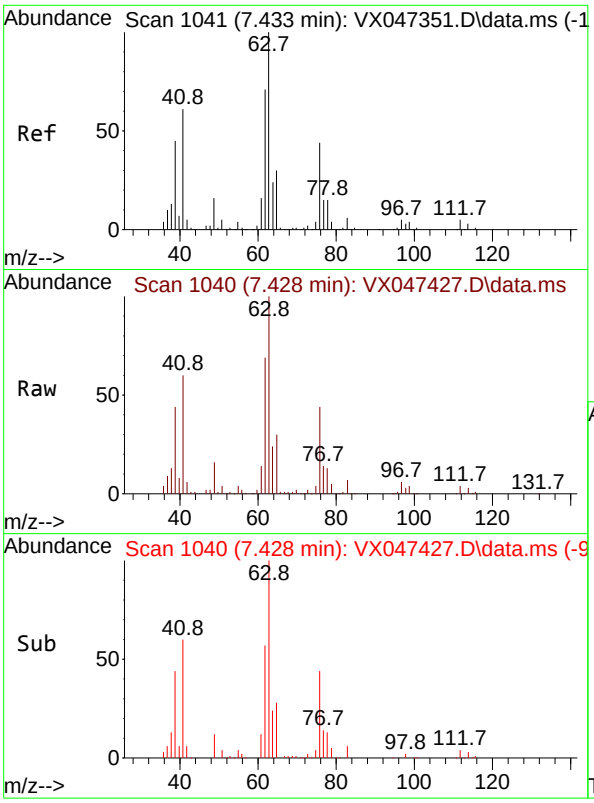


#44
Trichloroethene
Concen: 46.924 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:130 Resp: 136195

Ion	Ratio	Lower	Upper
130	100		
95	98.3	0.0	198.6

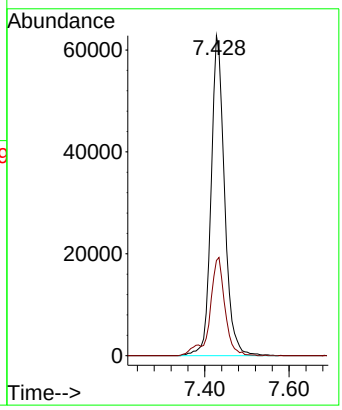




#45
1,2-Dichloropropane
Concen: 49.152 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 63 Resp: 13958

Ion	Ratio	Lower	Upper
63	100		
65	29.8	23.8	35.6



Instrument :
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ClientSampleId :
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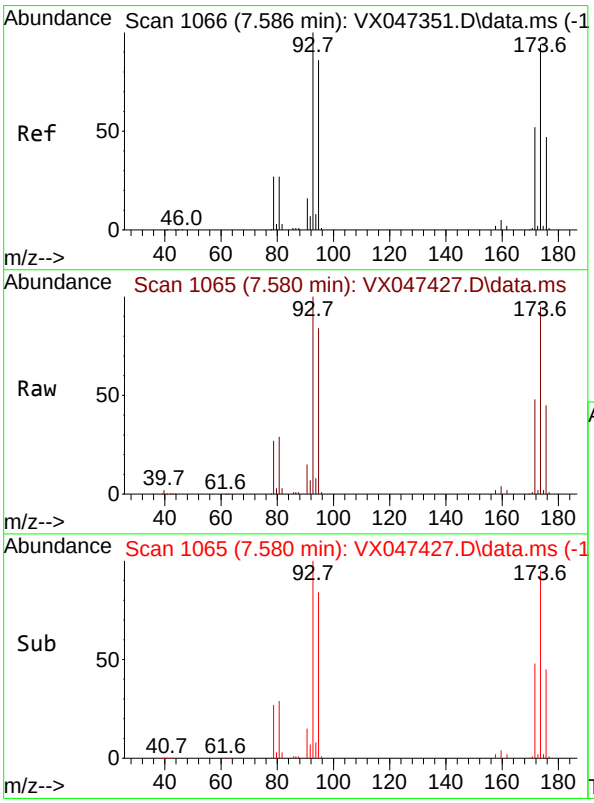
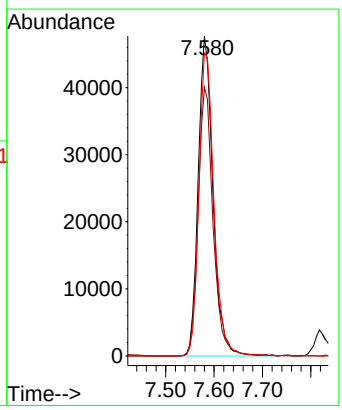
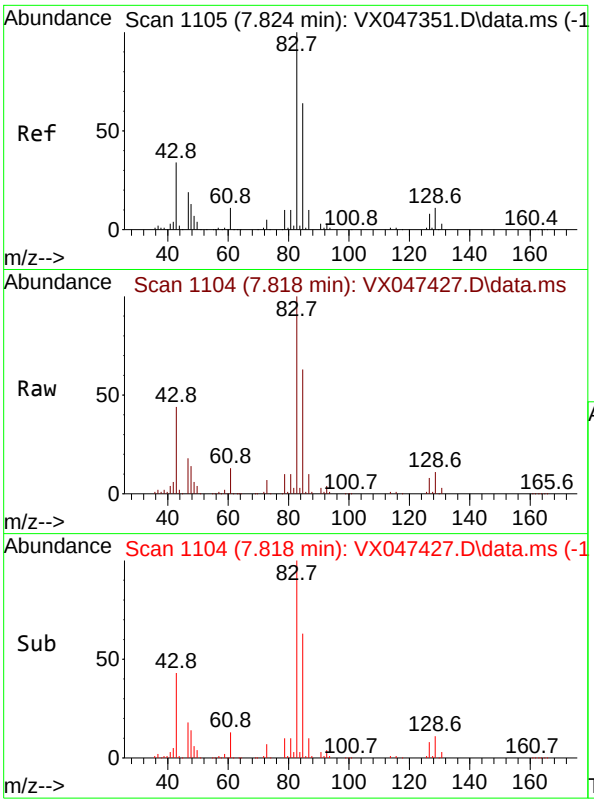


#46
Dibromomethane
Concen: 49.216 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 93 Resp: 101467

Ion	Ratio	Lower	Upper
93	100		
95	84.0	68.0	102.0
174	96.1	75.8	113.6

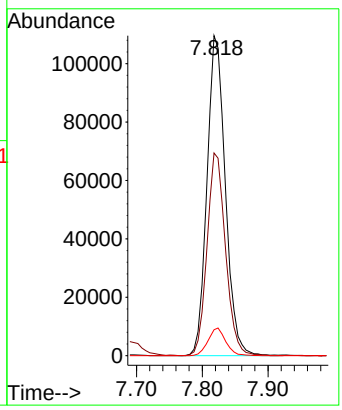




#47
Bromodichloromethane
Concen: 49.856 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 83 Resp: 21308

Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.0	76.6
127	8.1	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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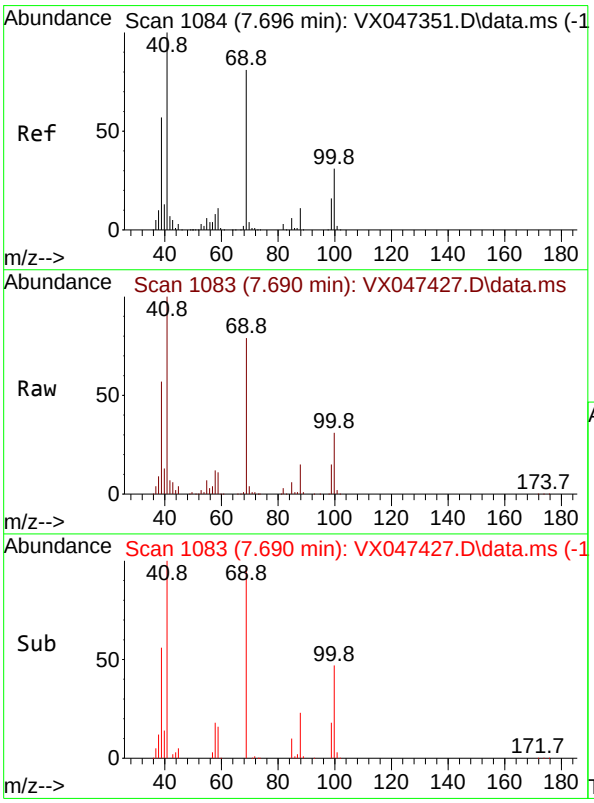
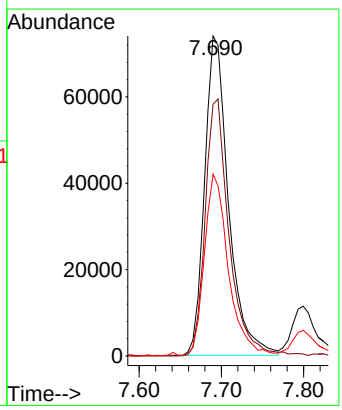
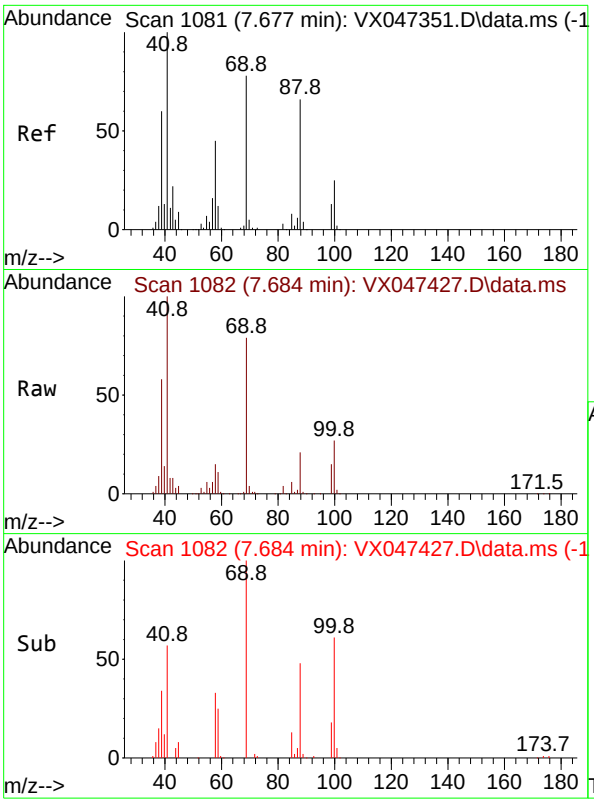


#48
Methyl methacrylate
Concen: 51.141 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 41 Resp: 149931

Ion	Ratio	Lower	Upper
41	100		
69	80.5	65.0	97.4
39	56.9	45.7	68.5





#49
1,4-Dioxane
Concen: 1275.197 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 88 Resp: 3634

Ion	Ratio	Lower	Upper
88	100		
43	33.9	32.4	48.6
58	70.8	56.9	85.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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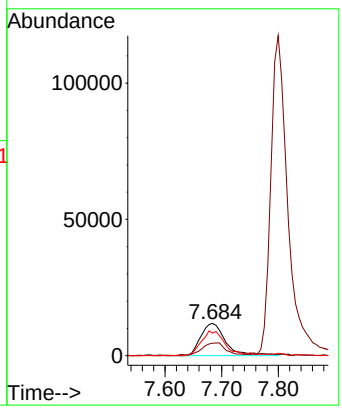
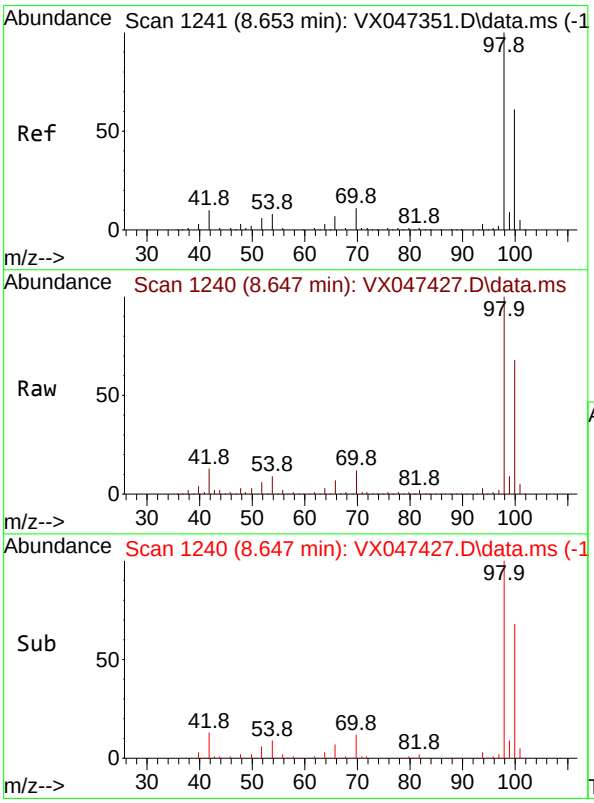
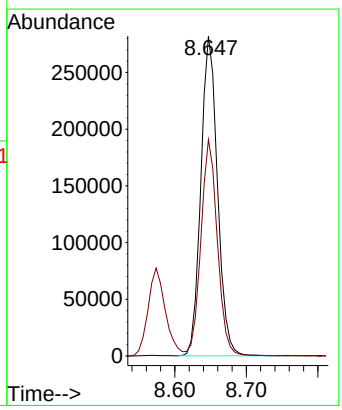


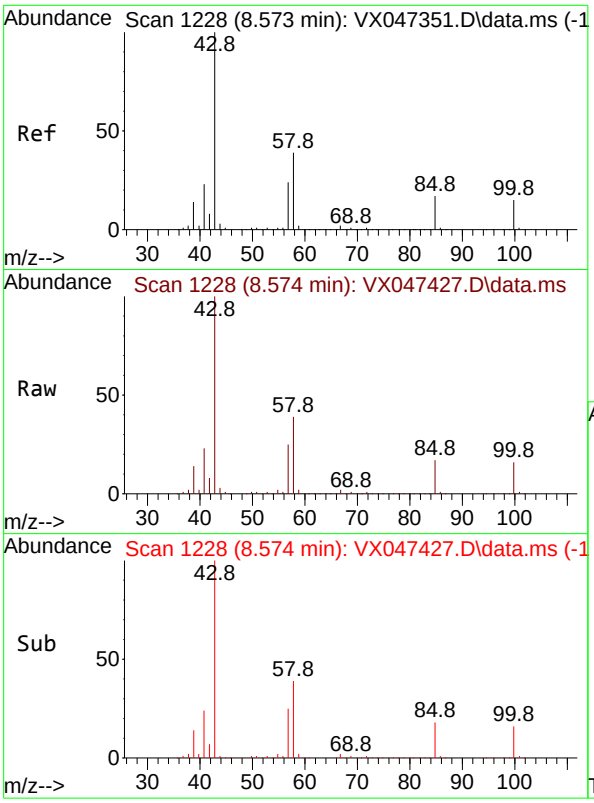


#50
Toluene-d8
Concen: 53.057 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 98 Resp: 454952

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.9	80.9

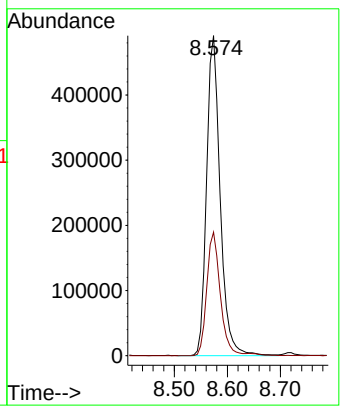




#51
4-Methyl-2-Pentanone
Concen: 268.005 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 43 Resp: 87107

Ion	Ratio	Lower	Upper
43	100		
58	38.3	31.2	46.8



Instrument :
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ClientSampleId :
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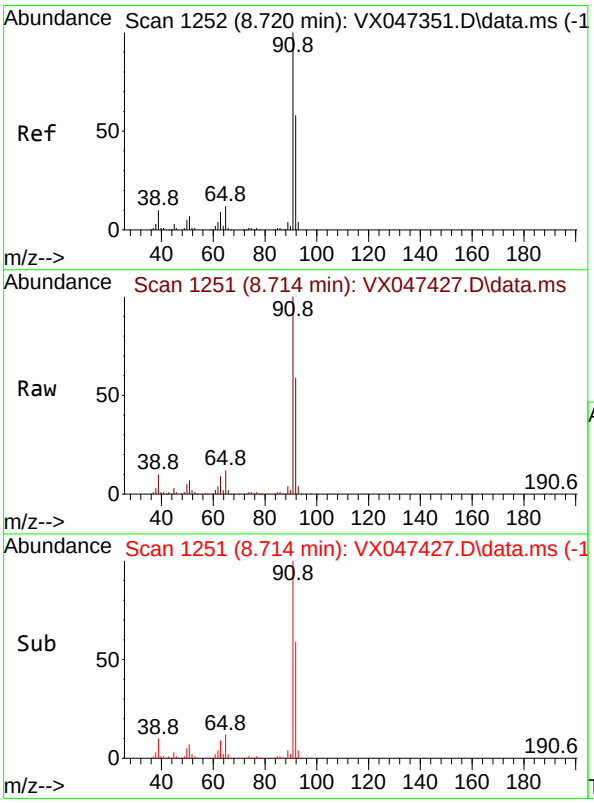
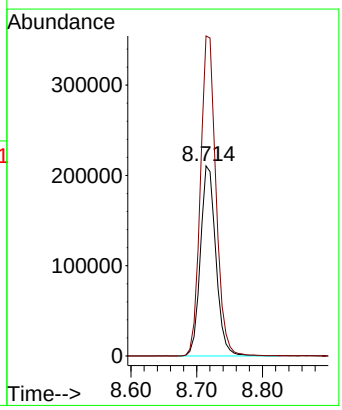
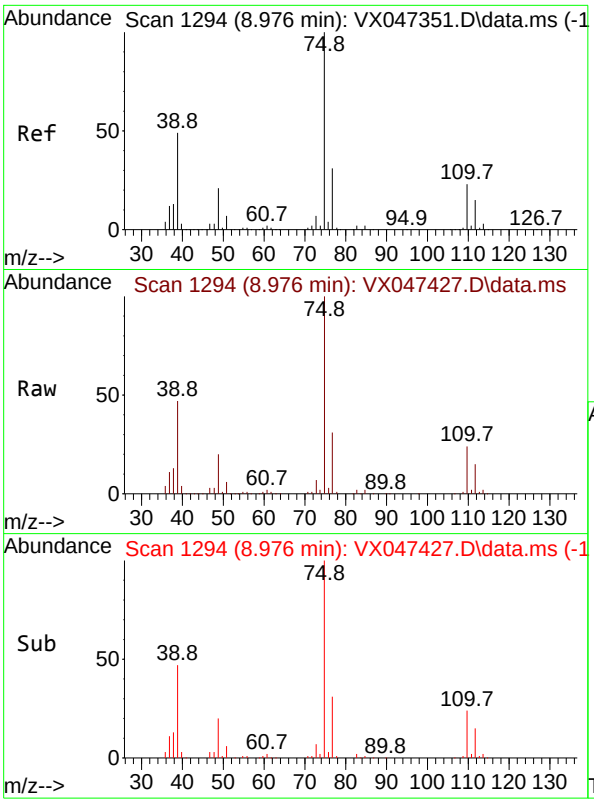


#52
Toluene
Concen: 49.011 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 92 Resp: 343297

Ion	Ratio	Lower	Upper
92	100		
91	169.6	136.3	204.5

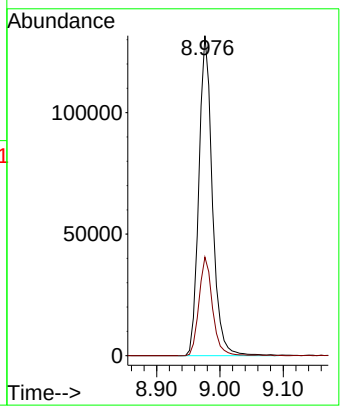




#53
t-1,3-Dichloropropene
Concen: 52.441 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 75 Resp: 19561

Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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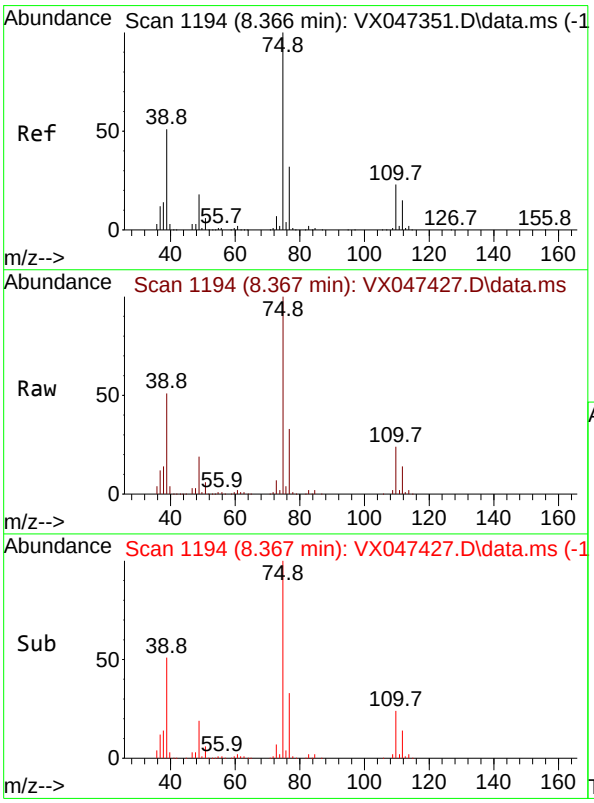
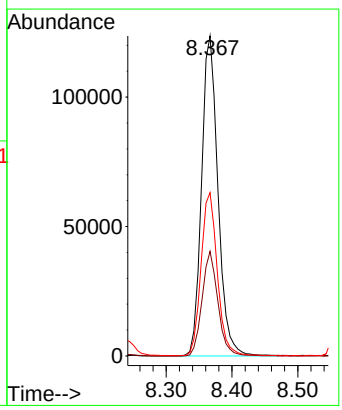
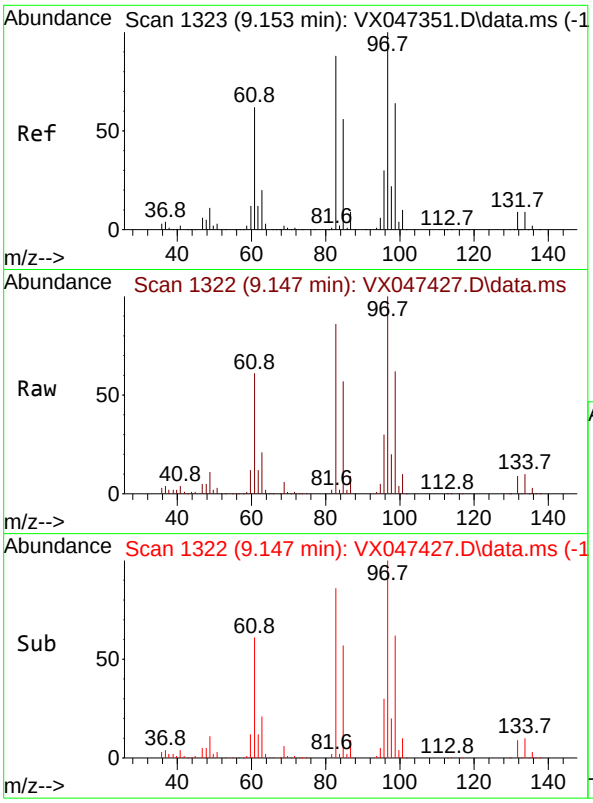


#54
cis-1,3-Dichloropropene
Concen: 50.782 ug/l
RT: 8.367 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 75 Resp: 214406

Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.6	38.4
39	51.0	40.9	61.3

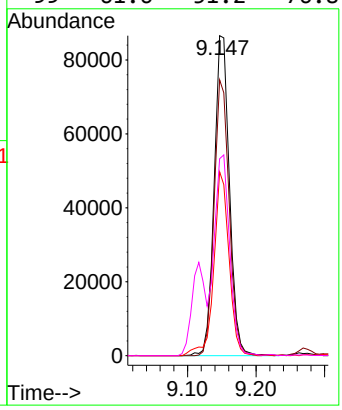




#55
1,1,2-Trichloroethane
Concen: 50.160 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 97 Resp: 13339

Ion	Ratio	Lower	Upper
97	100		
83	86.2	70.6	106.0
85	57.5	44.7	67.1
99	61.6	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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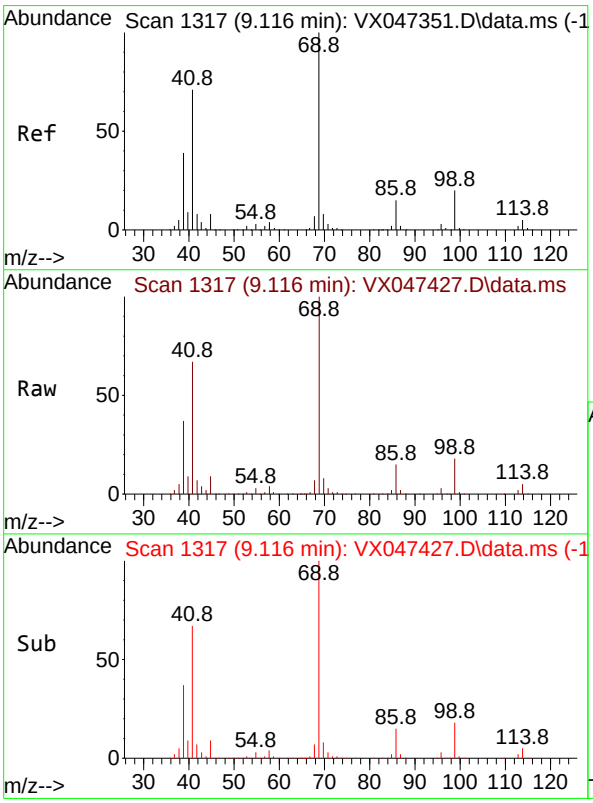
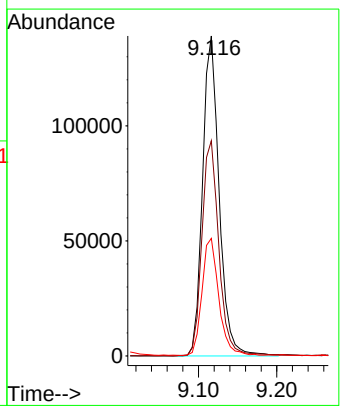
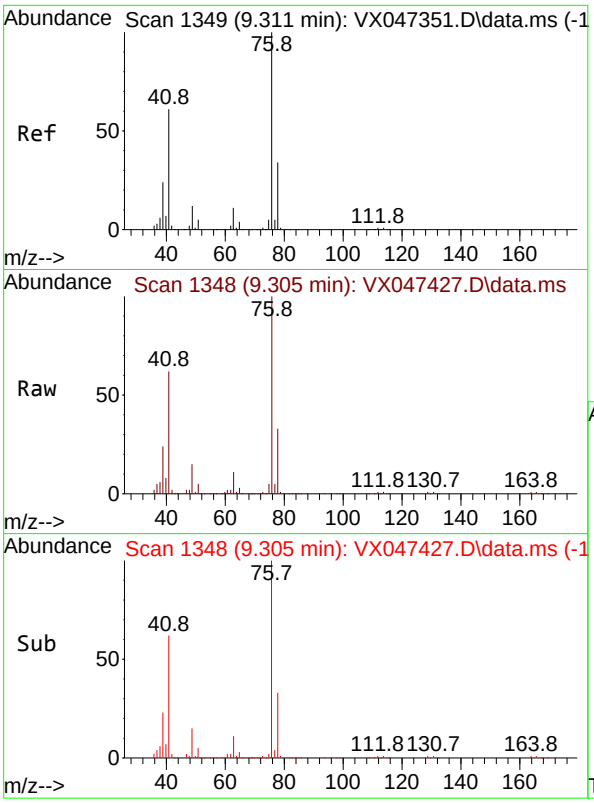


#56
Ethyl methacrylate
Concen: 52.154 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 69 Resp: 204493

Ion	Ratio	Lower	Upper
69	100		
41	69.3	55.3	82.9
39	37.1	30.2	45.2





#57
1,3-Dichloropropane
Concen: 50.551 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 76 Resp: 22907

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.2	39.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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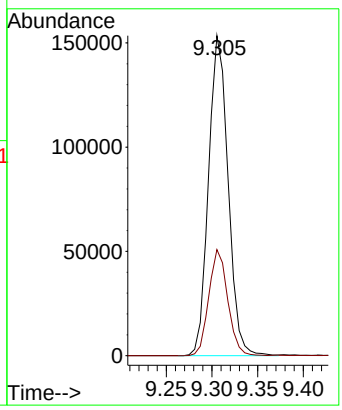
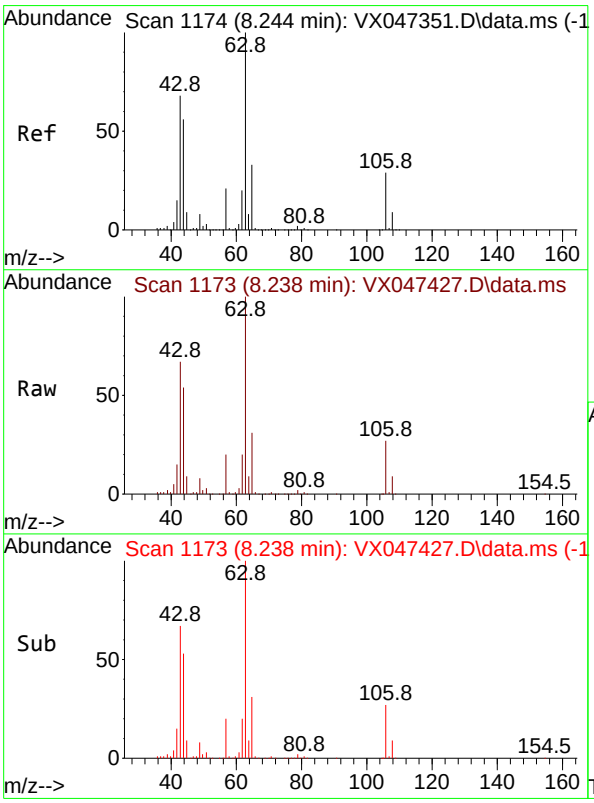
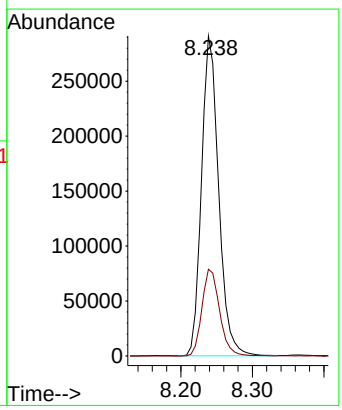


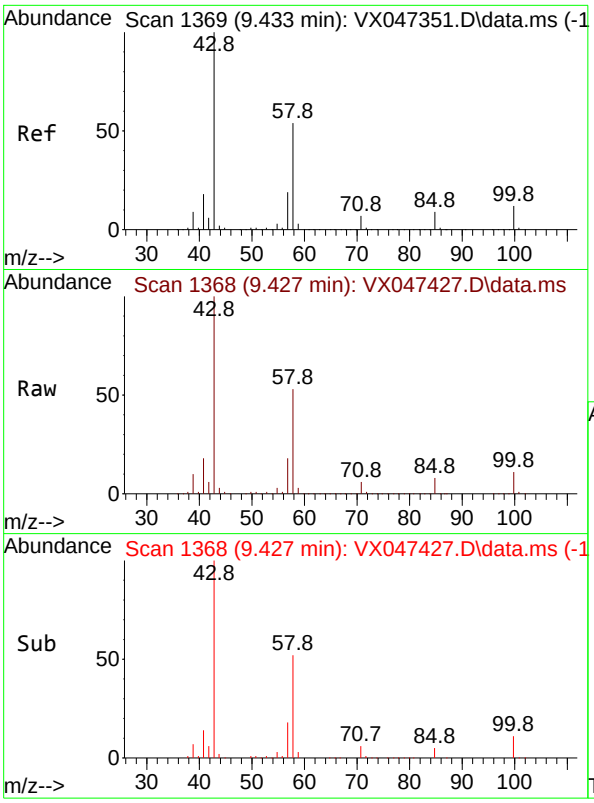


#58
2-Chloroethyl Vinyl ether
Concen: 258.666 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 63 Resp: 484861

Ion	Ratio	Lower	Upper
63	100		
106	27.9	22.8	34.2





#59
2-Hexanone
Concen: 270.640 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 43 Resp: 60846

Ion	Ratio	Lower	Upper
43	100		
58	53.5	26.9	80.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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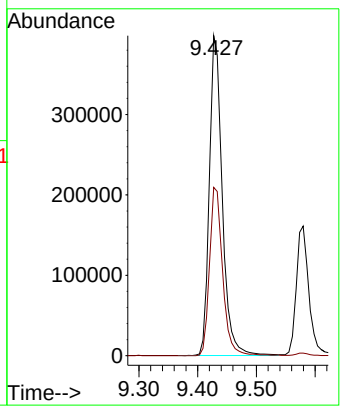
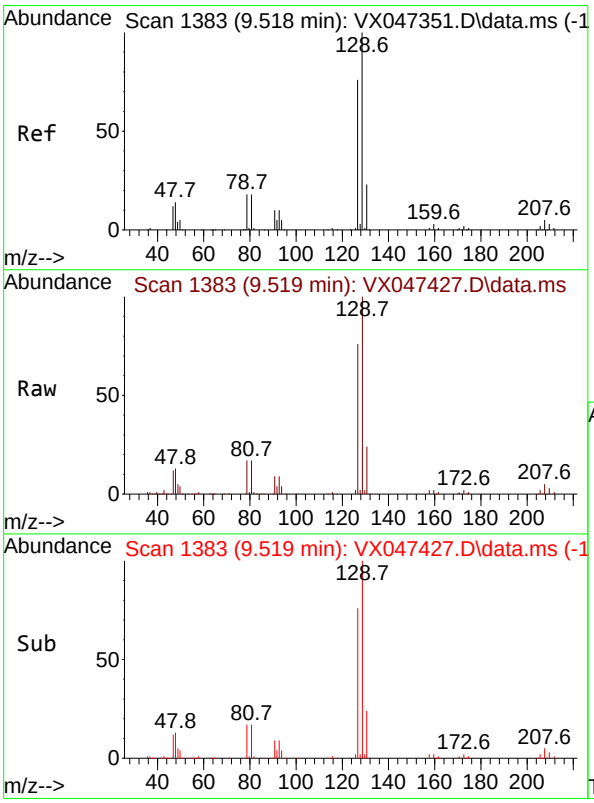
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

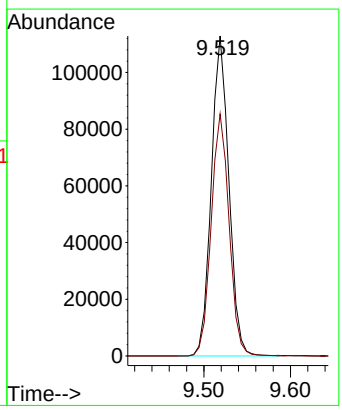


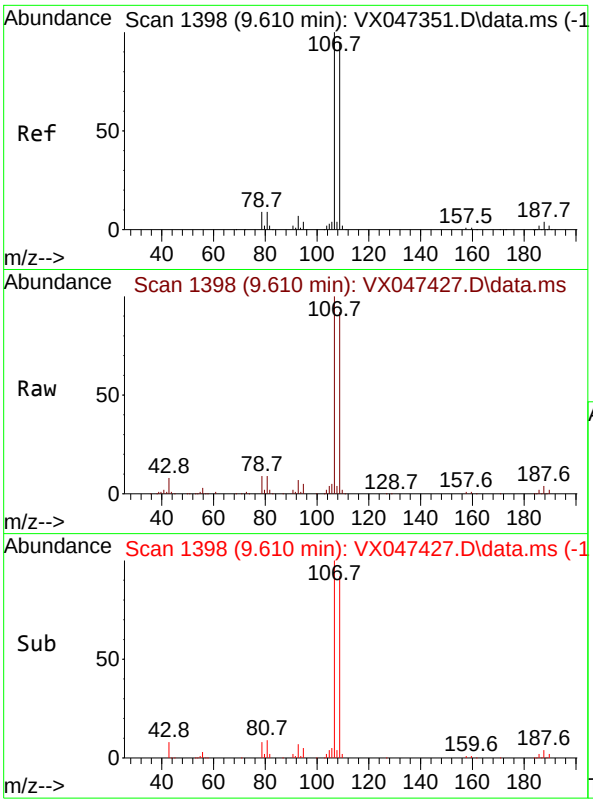


#60
Dibromochloromethane
Concen: 50.268 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:129 Resp: 158872

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.9	116.6

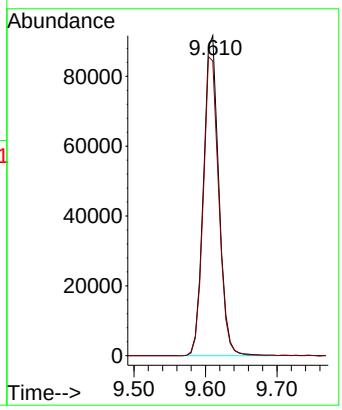




#61
1,2-Dibromoethane
Concen: 49.876 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:107 Resp: 13678

Ion	Ratio	Lower	Upper
107	100		
109	93.9	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
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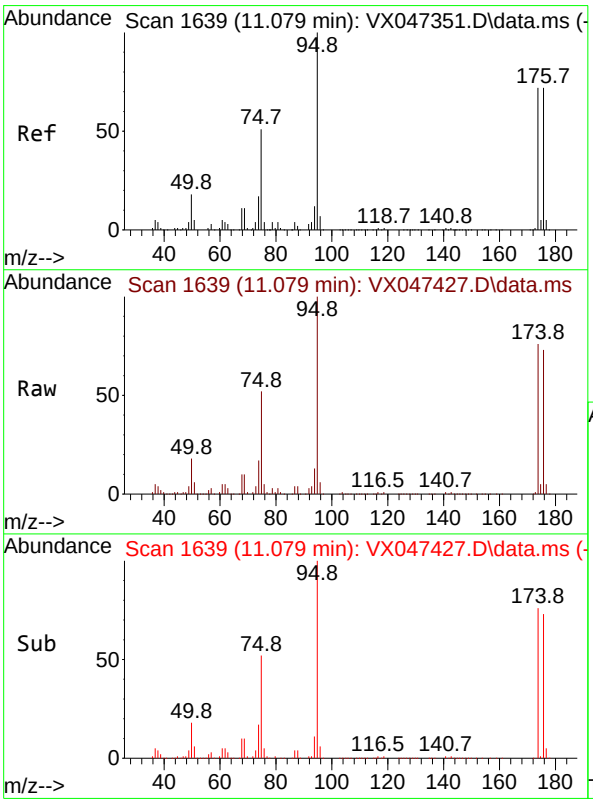
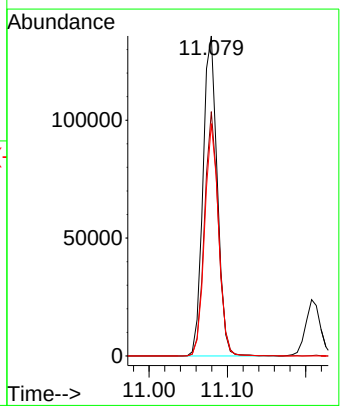
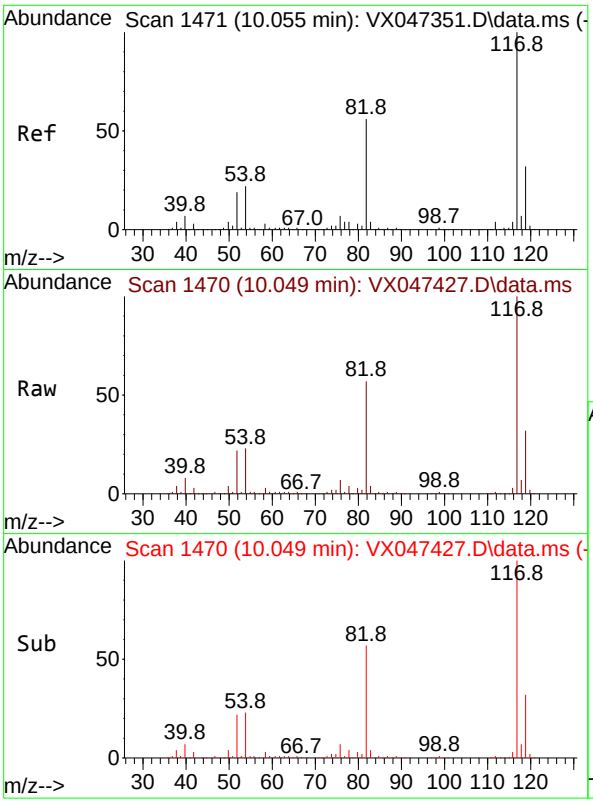


#62
4-Bromofluorobenzene
Concen: 54.278 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 95 Resp: 171750

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	148.0
176	70.6	0.0	145.4

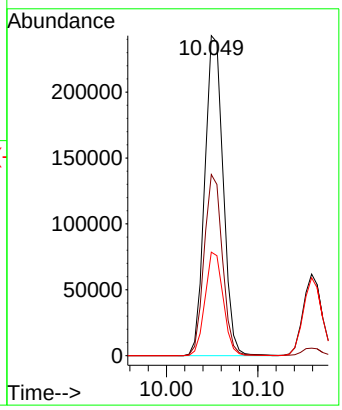




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:117 Resp: 33860

Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.0	67.4
119	32.3	25.8	38.8



Instrument :
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ClientSampleId :
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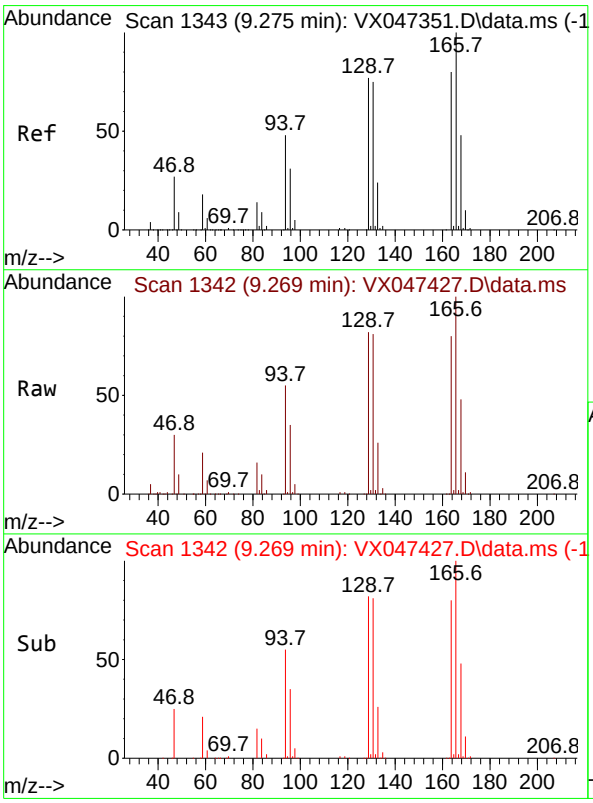
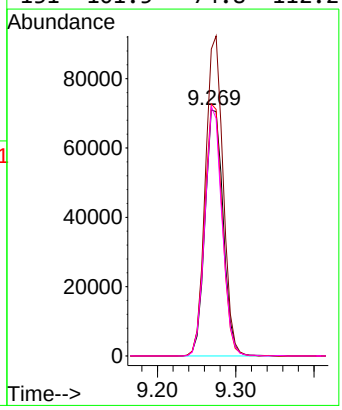
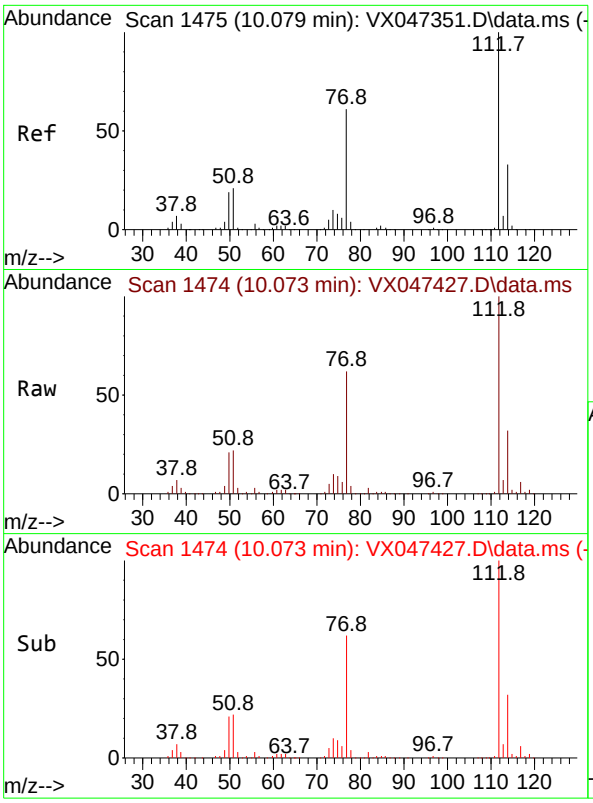


#64
Tetrachloroethene
Concen: 46.376 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:164 Resp: 113583

Ion	Ratio	Lower	Upper
164	100		
166	124.8	100.3	150.5
129	102.5	77.7	116.5
131	101.5	74.8	112.2

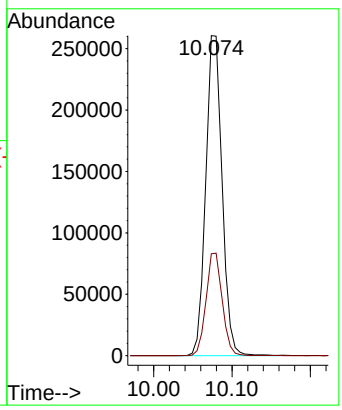




#65
Chlorobenzene
Concen: 46.849 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:112 Resp: 37697

Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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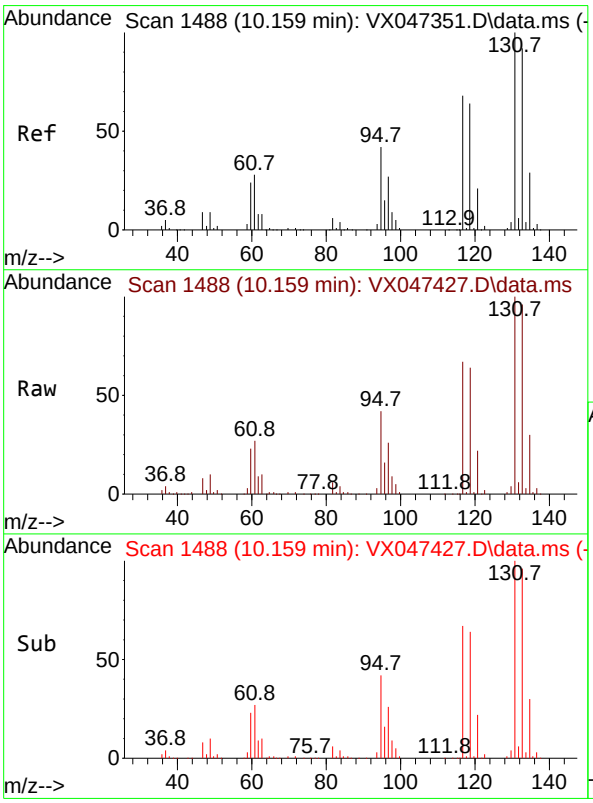
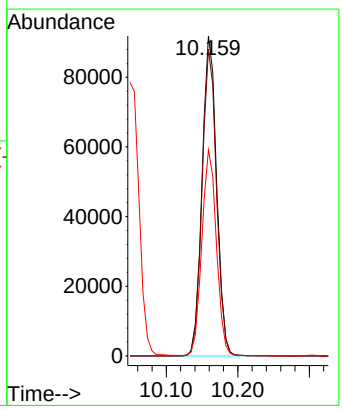
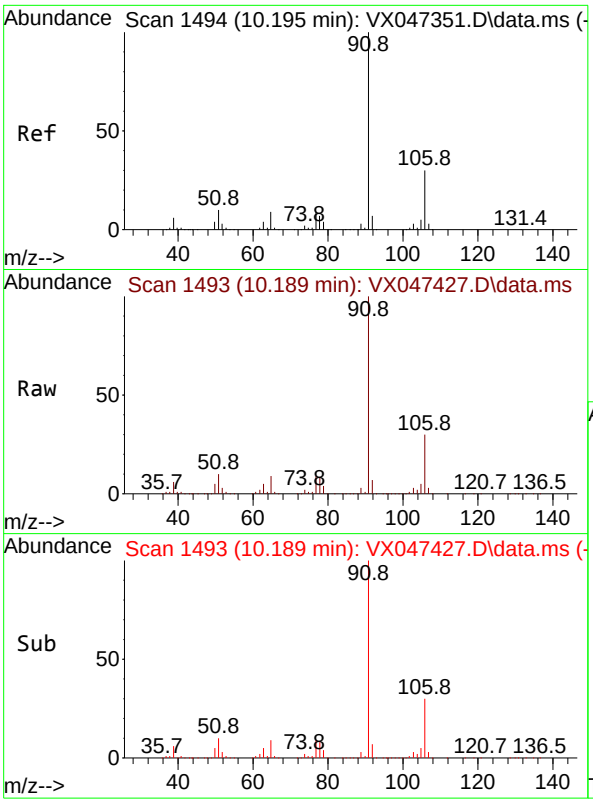


#66
1,1,1,2-Tetrachloroethane
Concen: 47.629 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:131 Resp: 129555

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.6	142.9
119	64.6	32.3	96.8

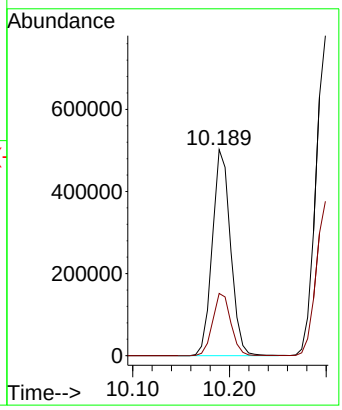




#67
Ethyl Benzene
Concen: 47.382 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 91 Resp: 65620

Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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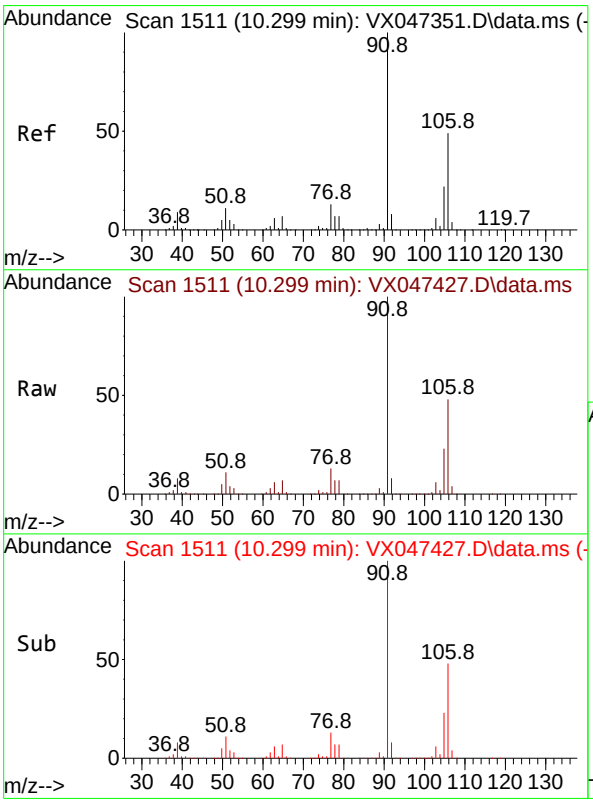
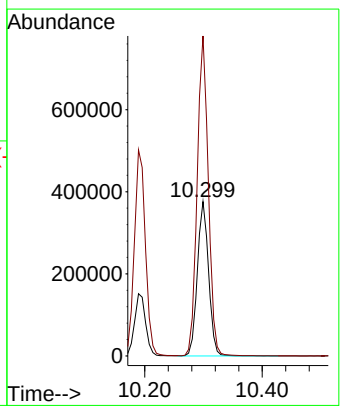
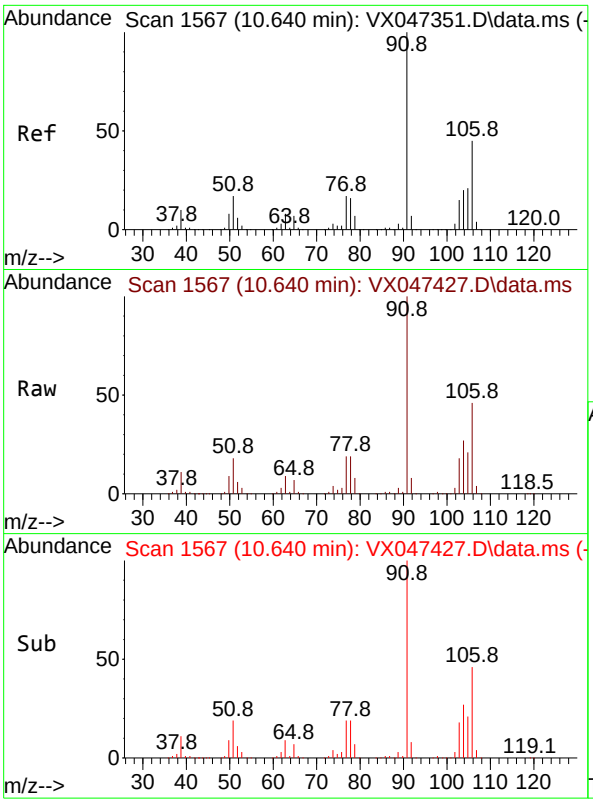


#68
m/p-Xylenes
Concen: 96.706 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:106 Resp: 499398

Ion	Ratio	Lower	Upper
106	100		
91	205.6	164.7	247.1





#69
o-Xylene
Concen: 47.927 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:106 Resp: 23817

Ion	Ratio	Lower	Upper
106	100		
91	218.4	110.6	331.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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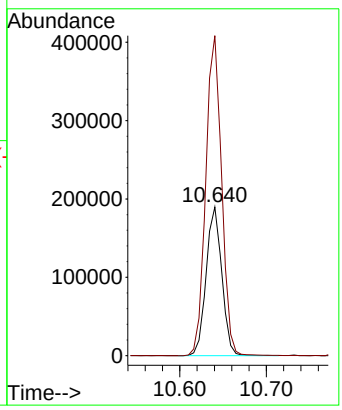
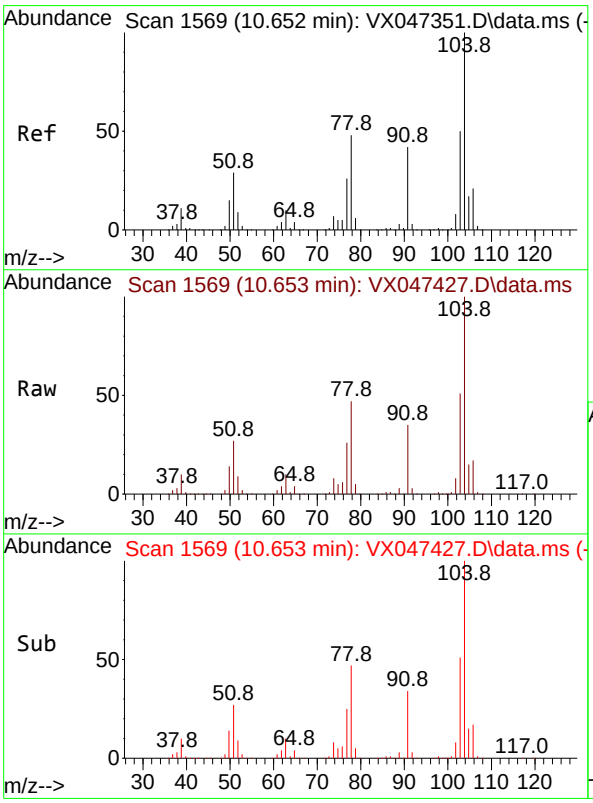
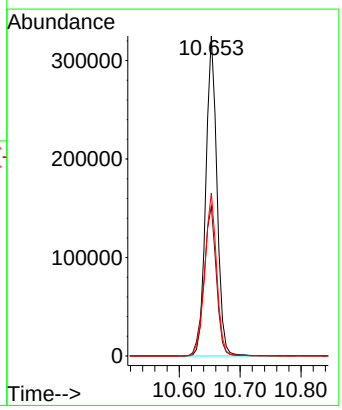


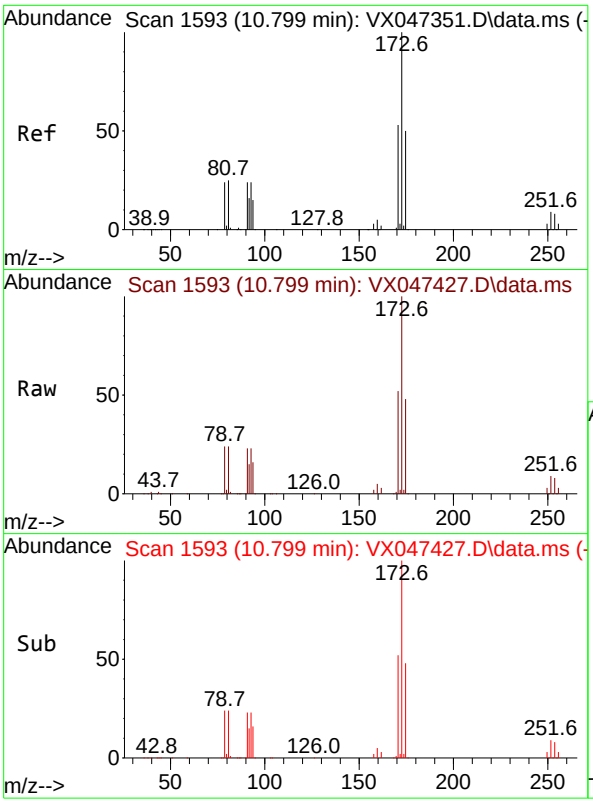


#70
Styrene
Concen: 49.091 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:104 Resp: 412220

Ion	Ratio	Lower	Upper
104	100		
78	52.0	41.8	62.8
103	54.7	43.6	65.4

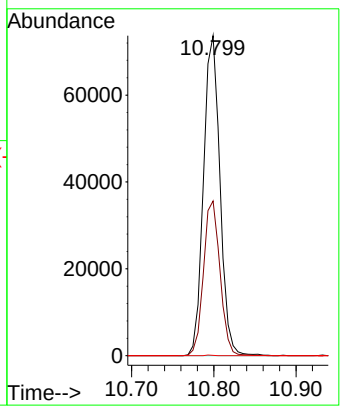




#71
Bromoform
Concen: 50.173 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:173 Resp: 10252

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.4	73.4
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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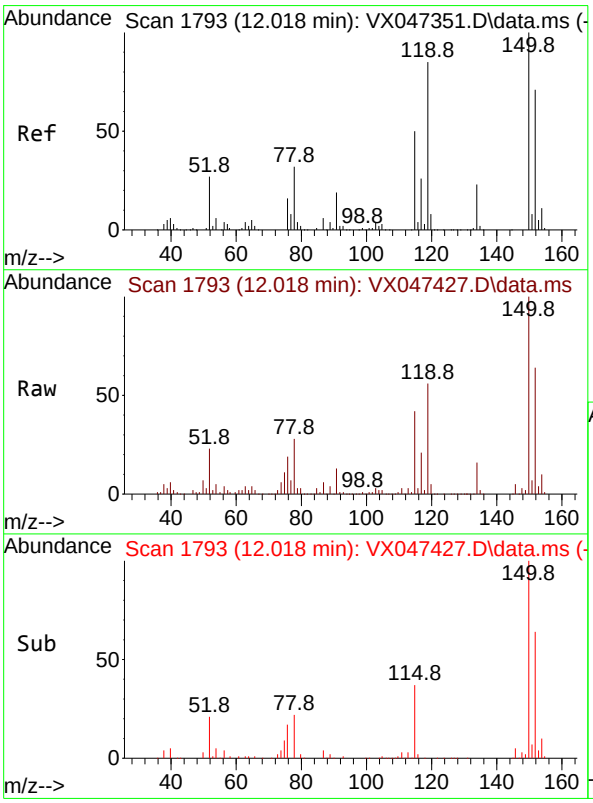
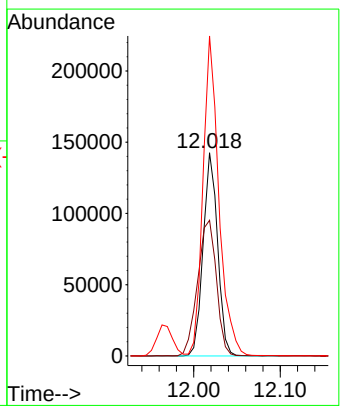
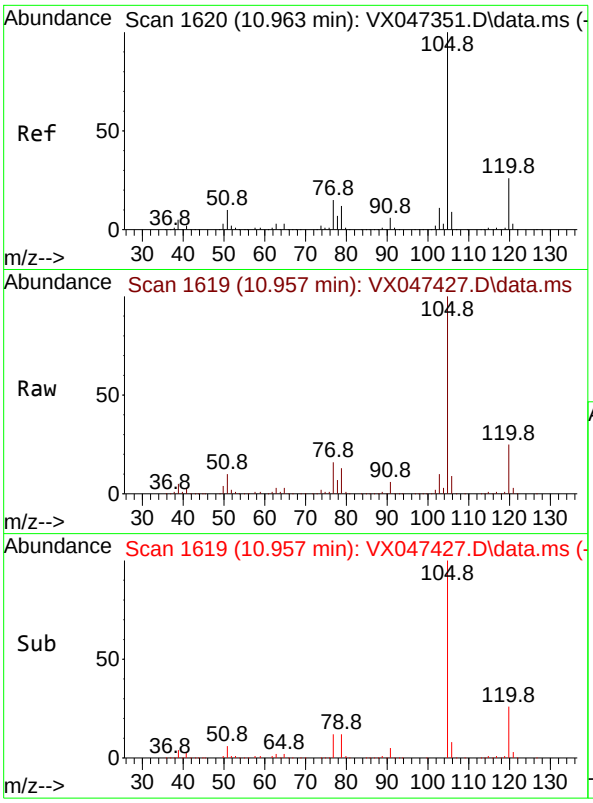


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:152 Resp: 165668

Ion	Ratio	Lower	Upper
152	100		
115	87.0	44.6	133.8
150	173.1	0.0	349.8

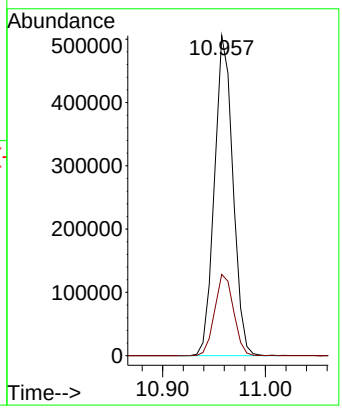




#73
Isopropylbenzene
Concen: 48.683 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:105 Resp: 63114

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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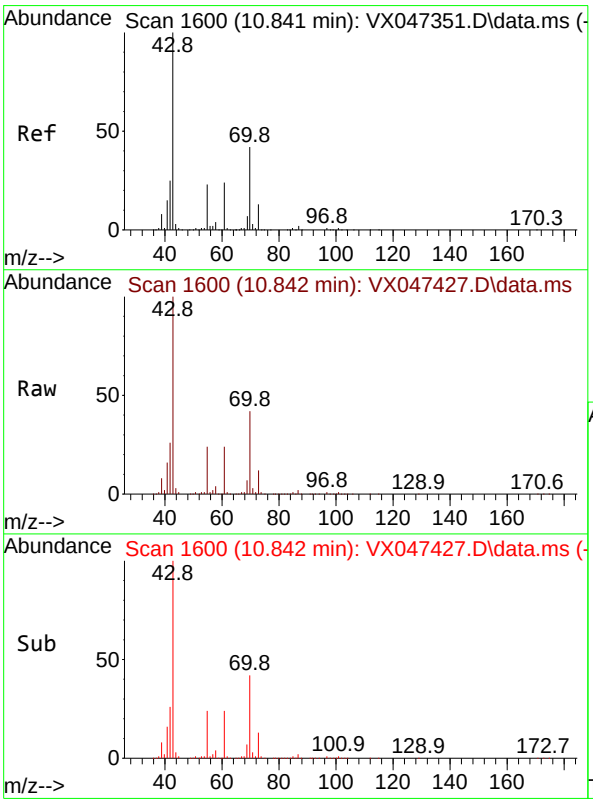
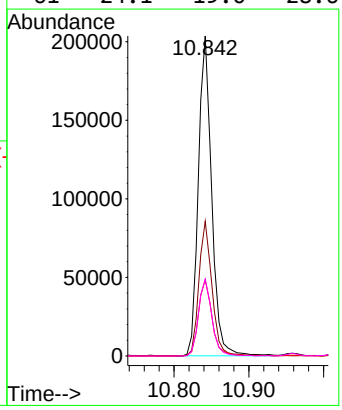
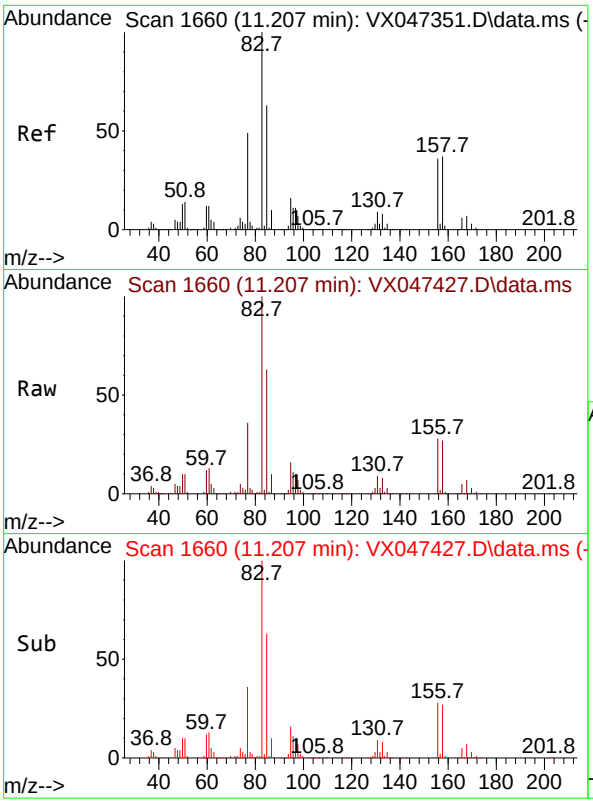


#74
N-amyl acetate
Concen: 51.206 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 43 Resp: 252091

Ion	Ratio	Lower	Upper
43	100		
70	41.6	33.1	49.7
55	24.4	19.0	28.6
61	24.1	19.0	28.6

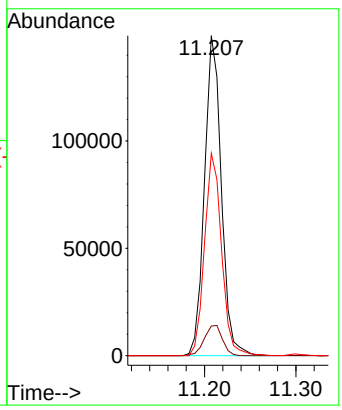




#75
1,1,2,2-Tetrachloroethane
Concen: 49.970 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 83 Resp: 19020

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	15.0
85	63.9	31.7	95.1



Instrument :
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ClientSampleId :
VSTDCCC050

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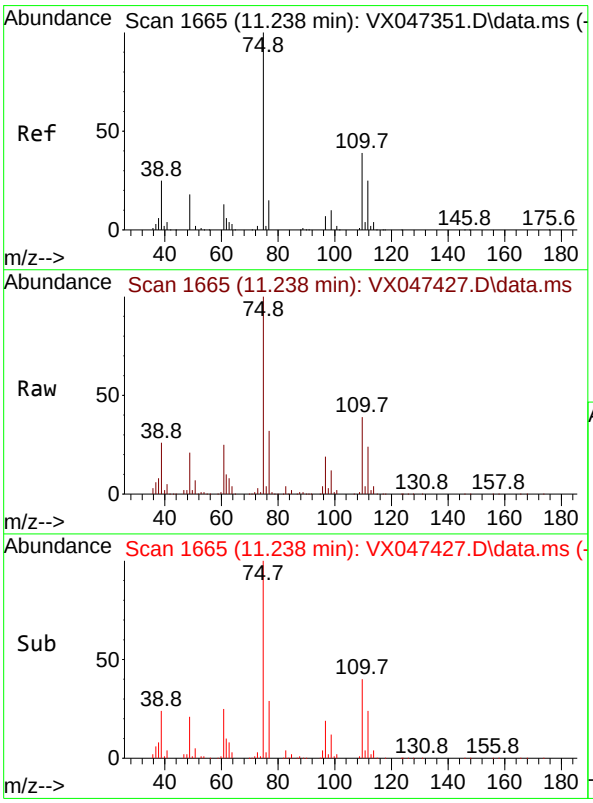
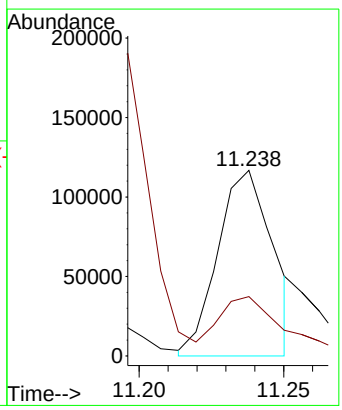
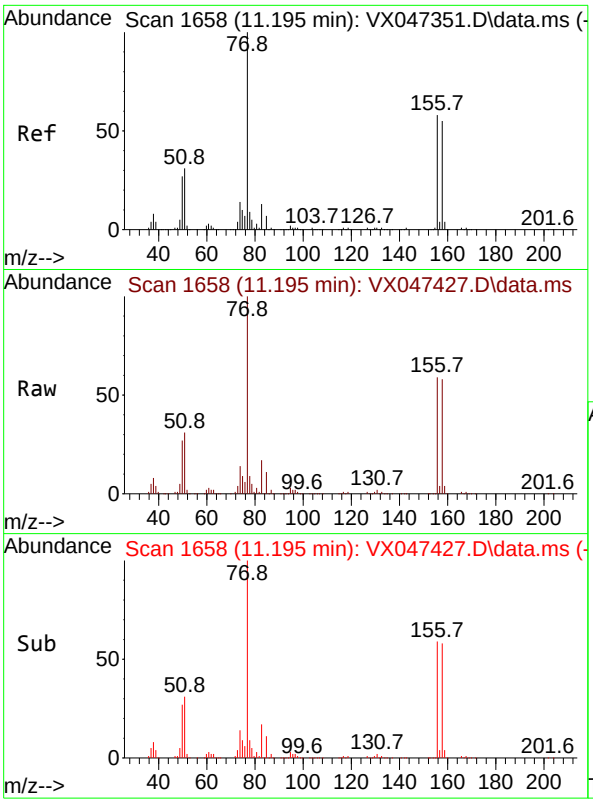


#76
1,2,3-Trichloropropane
Concen: 50.771 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 75 Resp: 154268

Ion	Ratio	Lower	Upper
75	100		
77	38.7	19.4	58.2

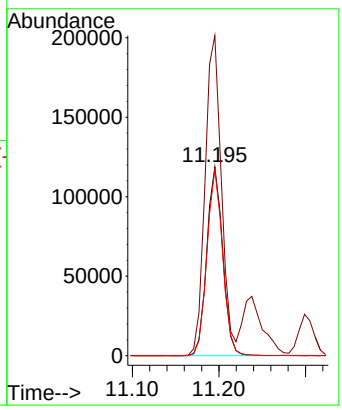




#77
Bromobenzene
Concen: 47.888 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:156 Resp: 15160

Ion	Ratio	Lower	Upper
156	100		
77	173.8	86.3	258.9
158	97.3	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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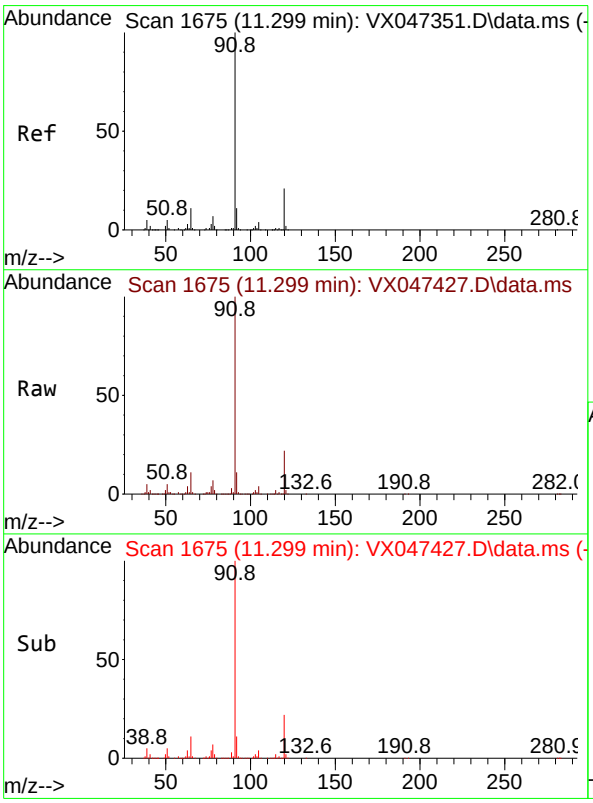
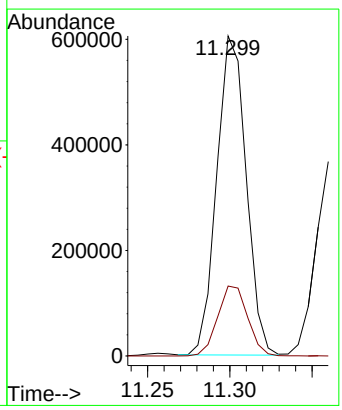
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

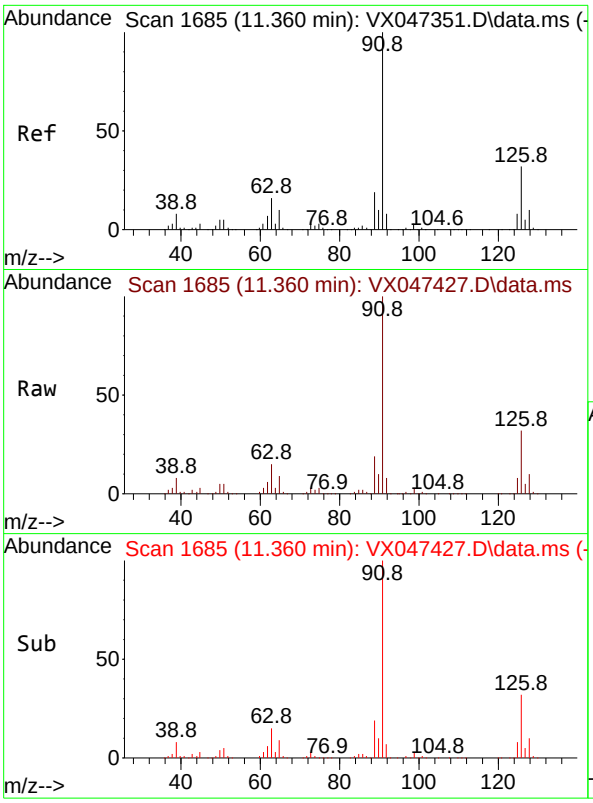


#78
n-propylbenzene
Concen: 48.618 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 91 Resp: 752772

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.0	33.0





#79
2-Chlorotoluene
Concen: 47.399 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 91 Resp: 44364

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.7	50.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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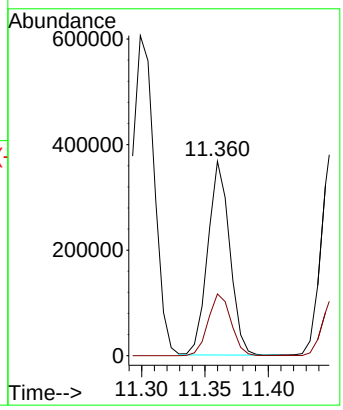
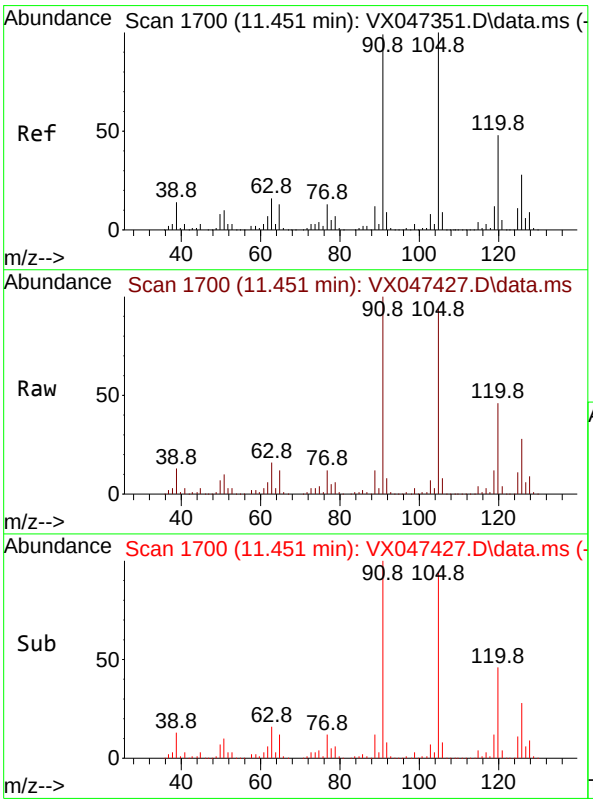
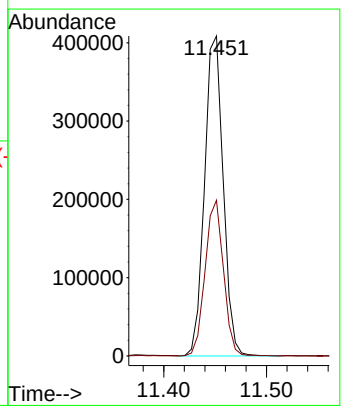


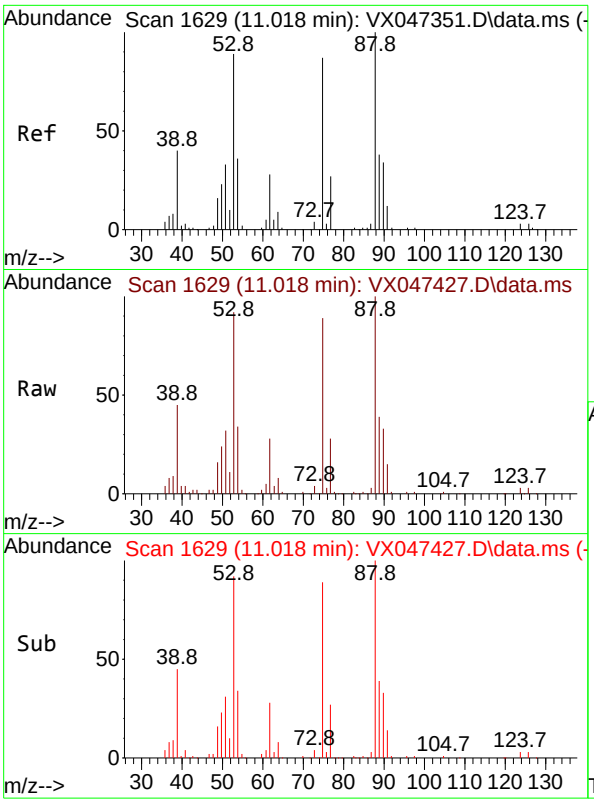


#80
1,3,5-Trimethylbenzene
Concen: 48.420 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:105 Resp: 516490

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.9	71.7

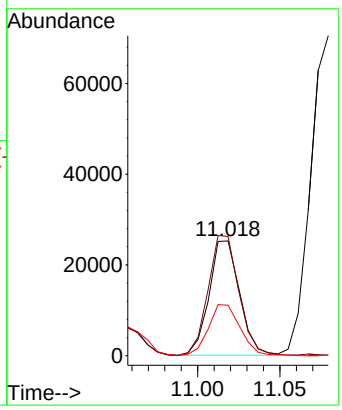




#81
trans-1,4-Dichloro-2-butene
Concen: 47.211 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 75 Resp: 3263

Ion	Ratio	Lower	Upper
75	100		
53	106.1	85.2	127.8
89	46.5	36.7	55.1



Instrument :
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ClientSampleId :
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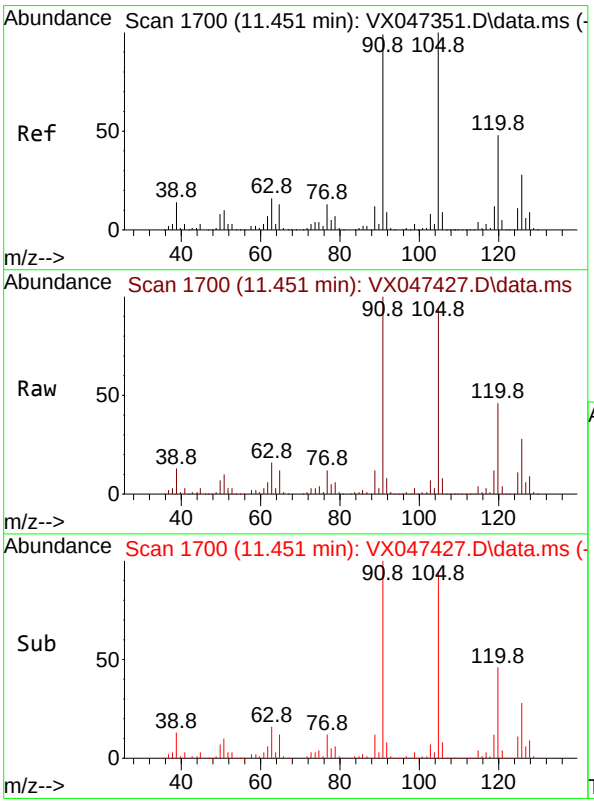
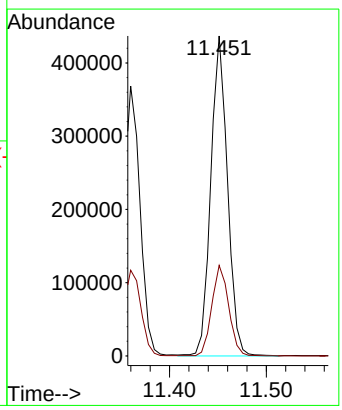
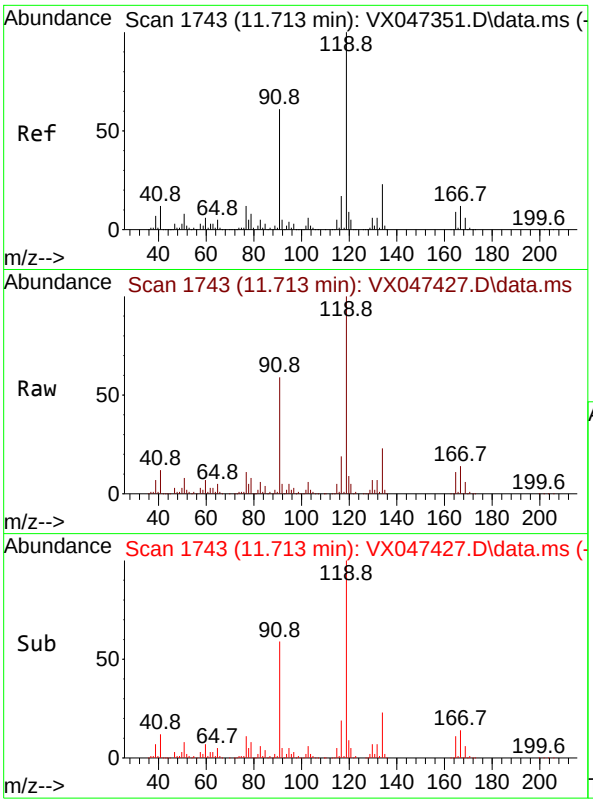


#82
4-Chlorotoluene
Concen: 47.507 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 91 Resp: 524154

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.4	43.0

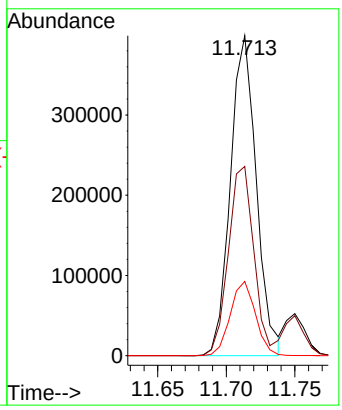




#83
tert-Butylbenzene
Concen: 49.413 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:119 Resp: 52585

Ion	Ratio	Lower	Upper
119	100		
91	57.9	29.1	87.4
134	22.6	11.3	33.9



Instrument :
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ClientSampleId :
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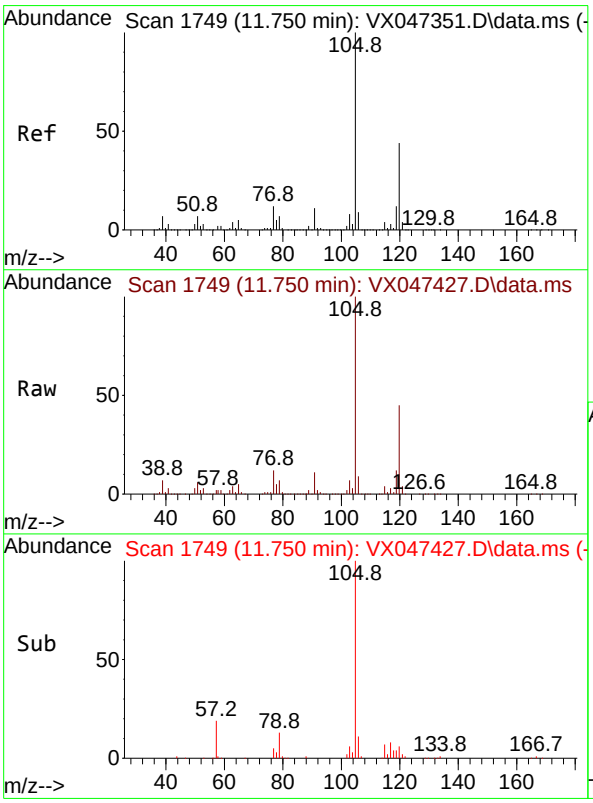
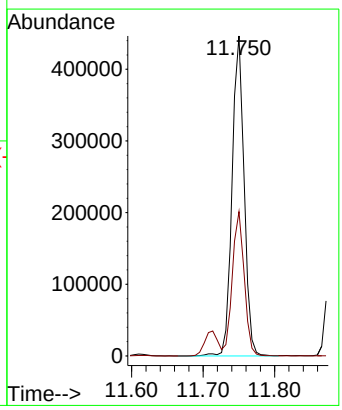
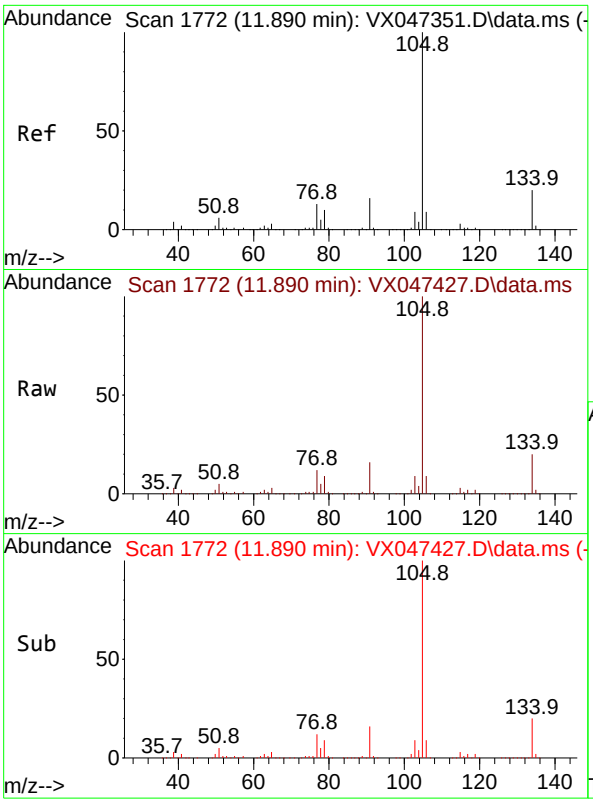


#84
1,2,4-Trimethylbenzene
Concen: 48.900 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:105 Resp: 521624

Ion	Ratio	Lower	Upper
105	100		
120	44.7	21.9	65.7

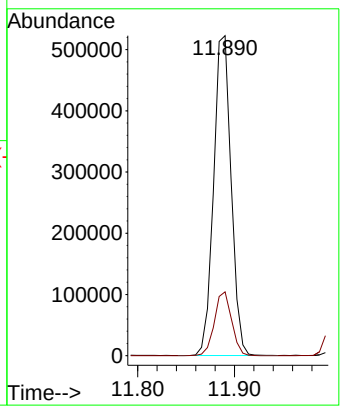




#85
sec-Butylbenzene
Concen: 49.771 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:105 Resp: 65649

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
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ClientSampleId :
VSTDCCC050

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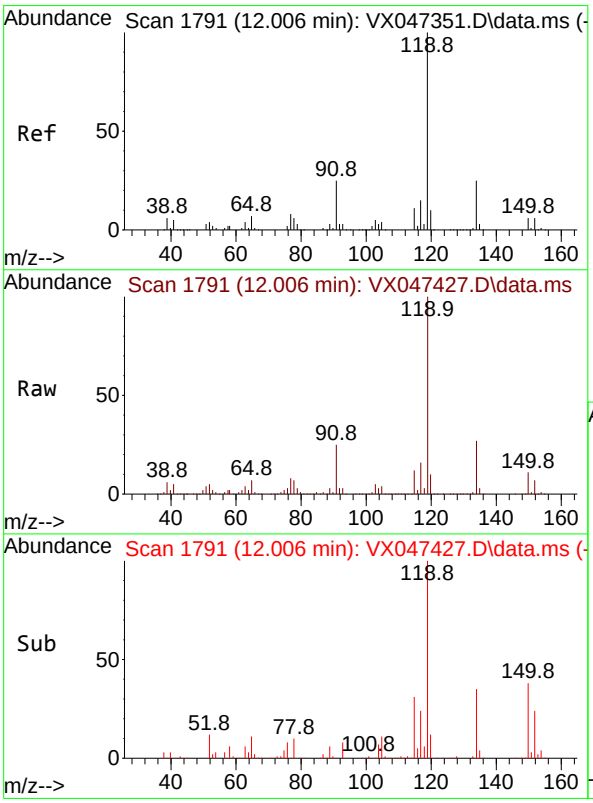
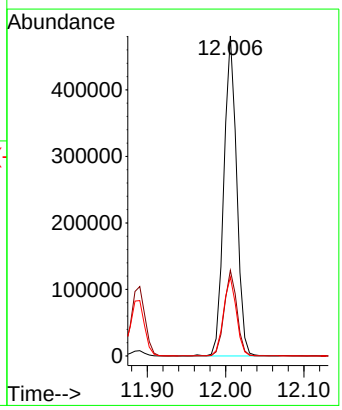
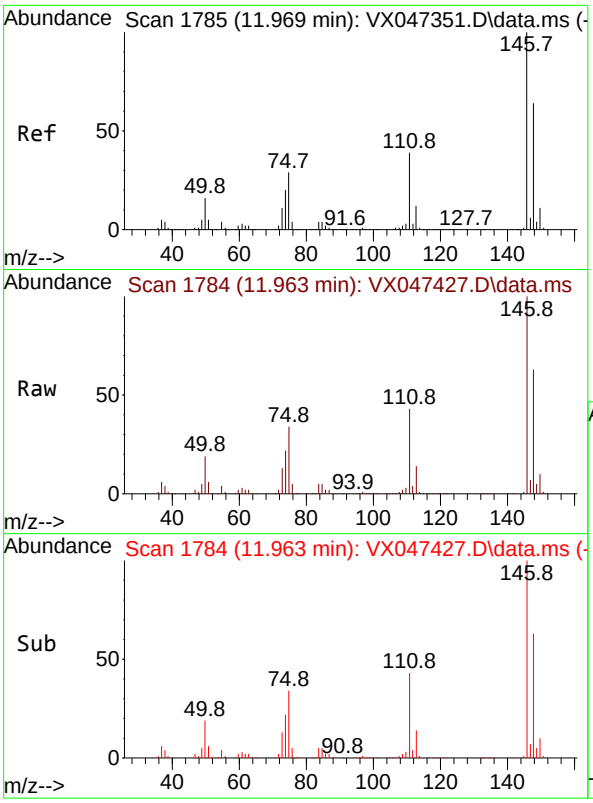


#86
p-Isopropyltoluene
Concen: 49.153 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:119 Resp: 548635

Ion	Ratio	Lower	Upper
119	100		
134	26.3	12.8	38.4
91	24.8	12.4	37.4

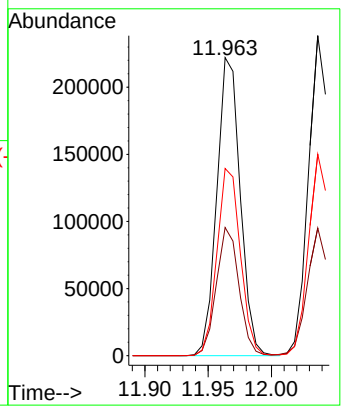




#87
1,3-Dichlorobenzene
Concen: 47.198 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:146 Resp: 28544

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.6	61.8
148	63.0	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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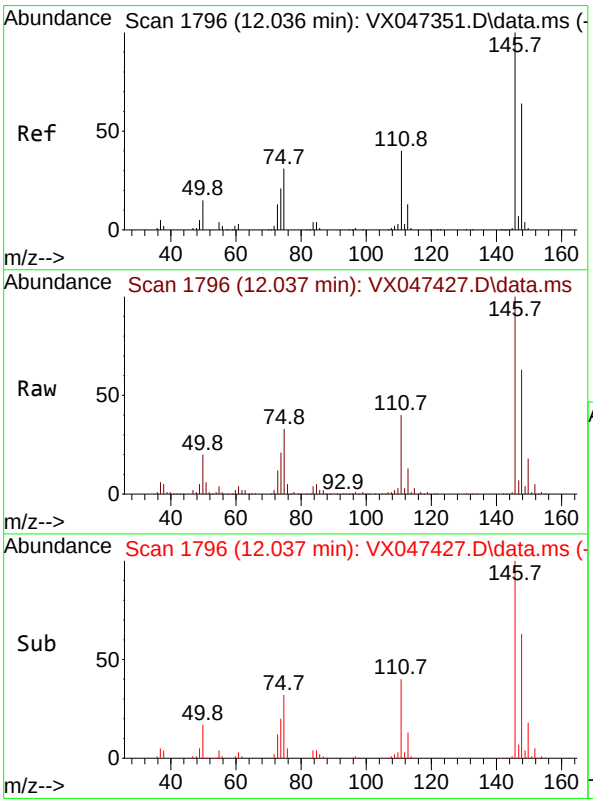
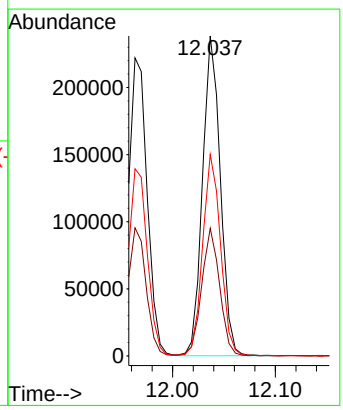
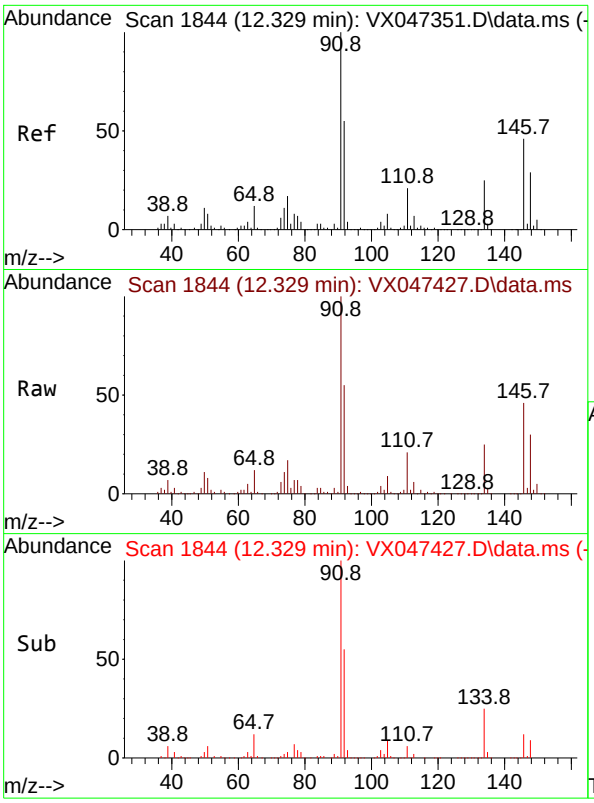


#88
1,4-Dichlorobenzene
Concen: 46.327 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:146 Resp: 288167

Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.4	61.2
148	63.3	31.7	95.1

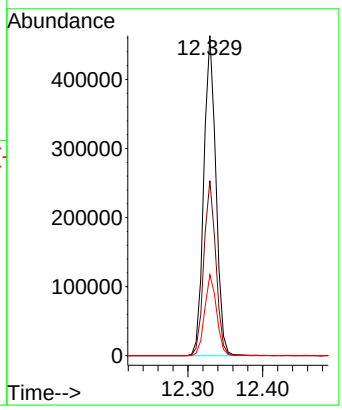




#89
n-Butylbenzene
Concen: 50.180 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 91 Resp: 52095

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.2	81.5
134	24.9	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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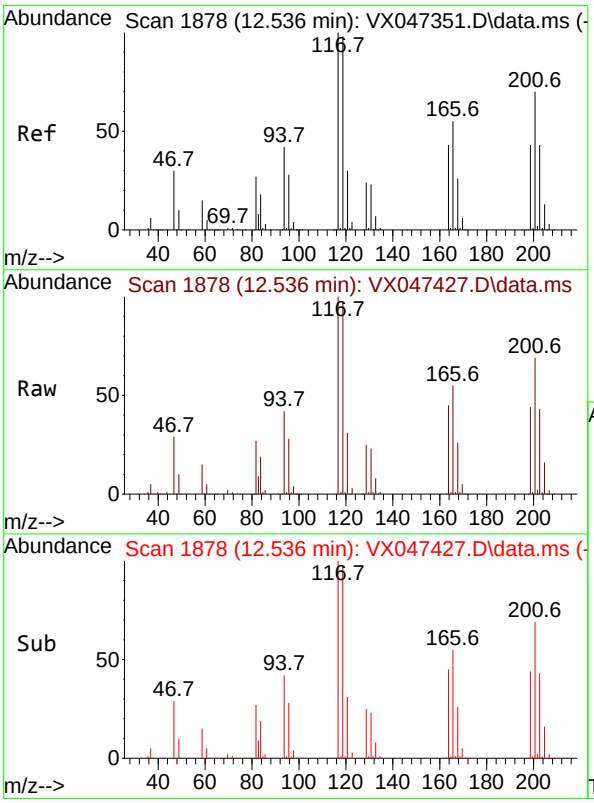
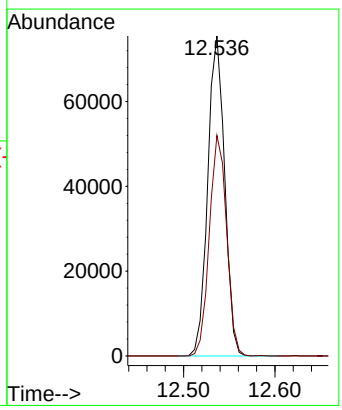
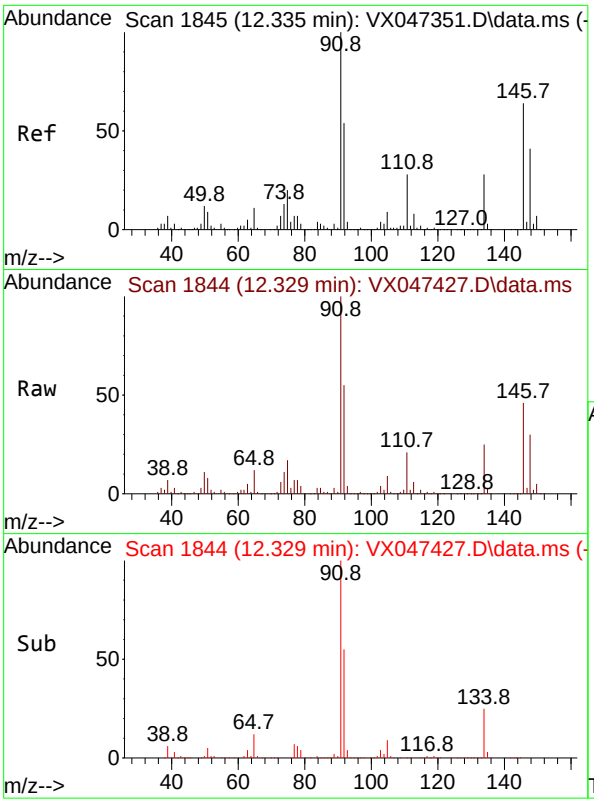


#90
Hexachloroethane
Concen: 49.346 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:117 Resp: 96627

Ion	Ratio	Lower	Upper
117	100		
201	70.5	35.1	105.3

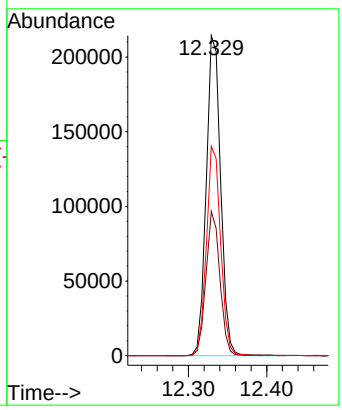




#91
1,2-Dichlorobenzene
Concen: 47.527 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:146 Resp: 27282

Ion	Ratio	Lower	Upper
146	100		
111	43.7	22.1	66.1
148	64.7	31.9	95.5



Instrument :
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ClientSampleId :
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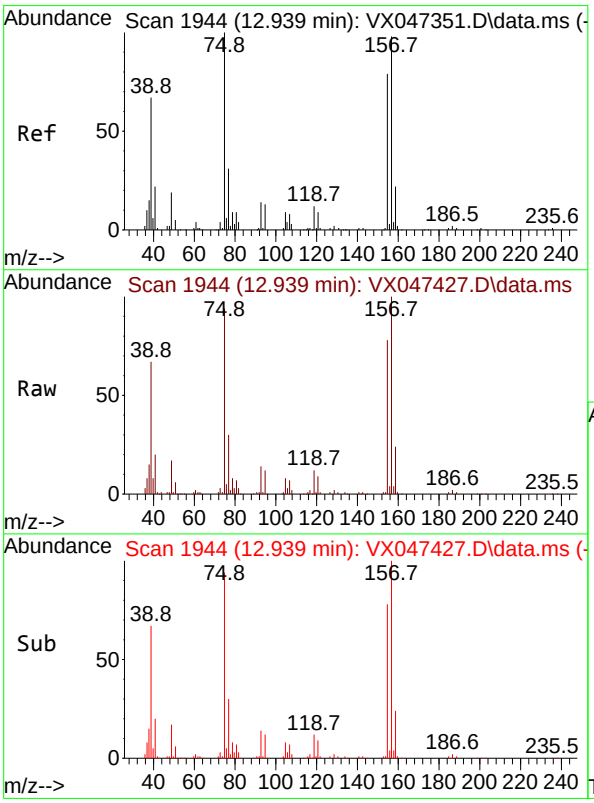
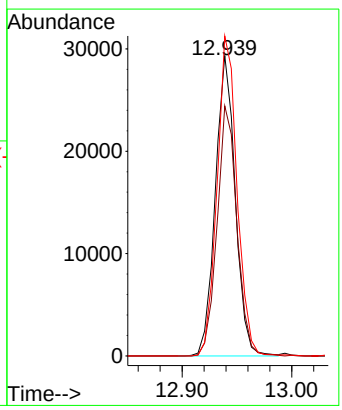
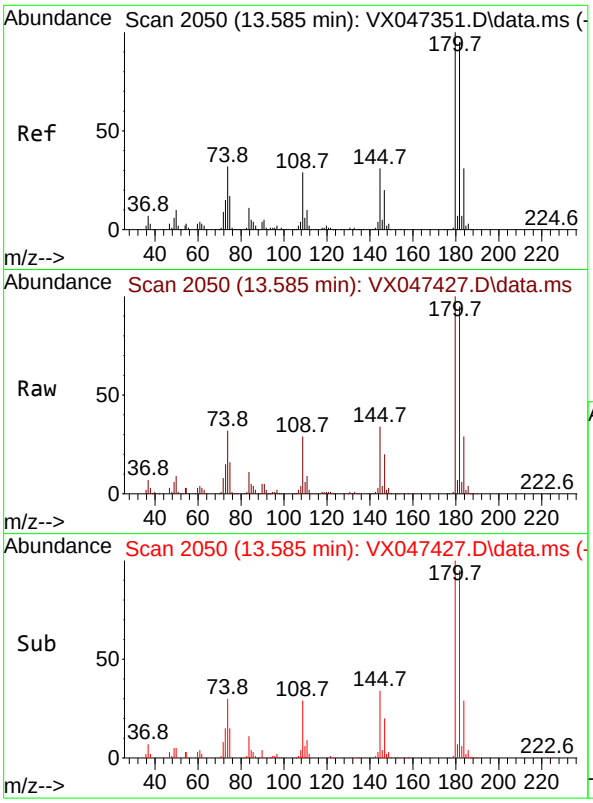


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.361 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 75 Resp: 37072

Ion	Ratio	Lower	Upper
75	100		
155	82.9	41.3	123.7
157	107.1	51.5	154.5

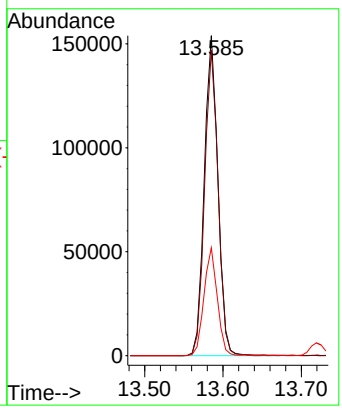




#93
1,2,4-Trichlorobenzene
Concen: 48.275 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:180 Resp: 18577

Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.1	144.4
145	32.9	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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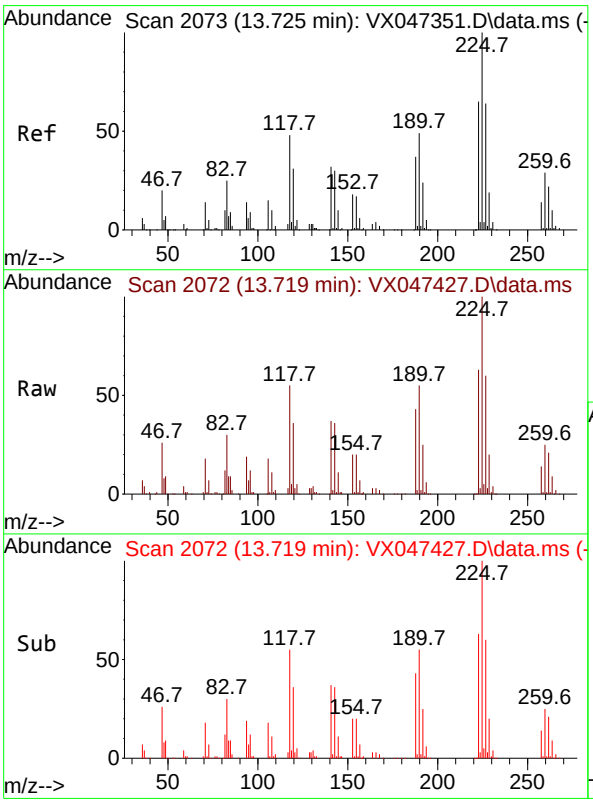
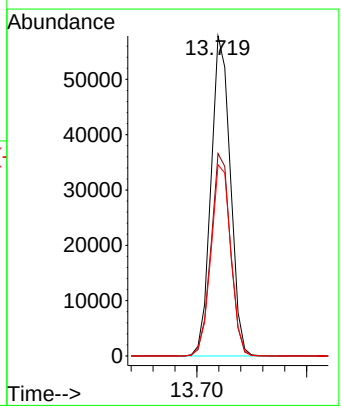
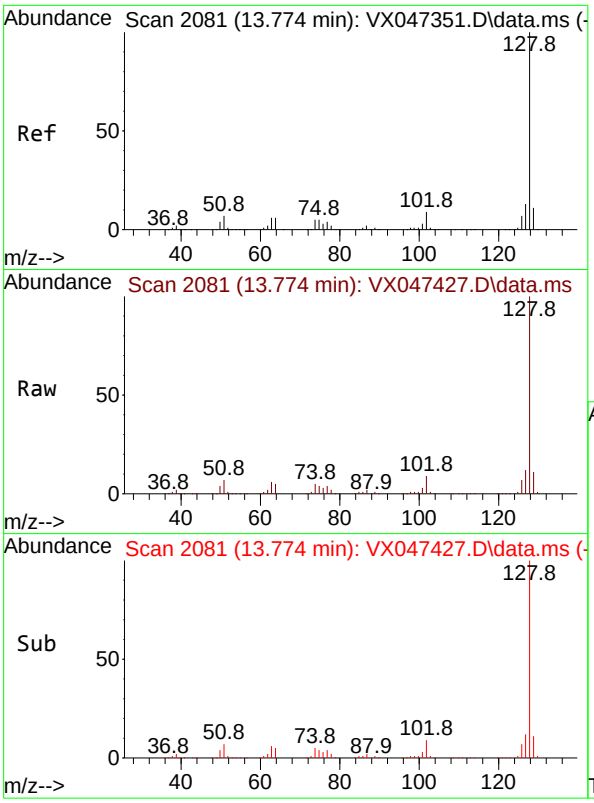


#94
Hexachlorobutadiene
Concen: 51.627 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:225 Resp: 70719

Ion	Ratio	Lower	Upper
225	100		
223	63.5	32.2	96.6
227	61.4	31.6	95.0

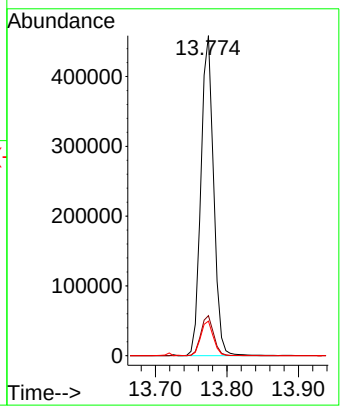




#95
Naphthalene
Concen: 51.423 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:128 Resp: 56552

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.8	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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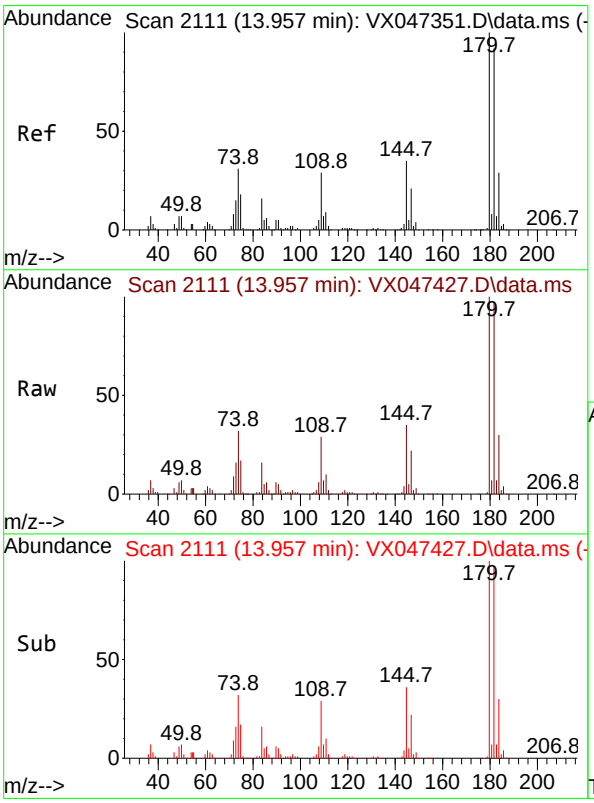
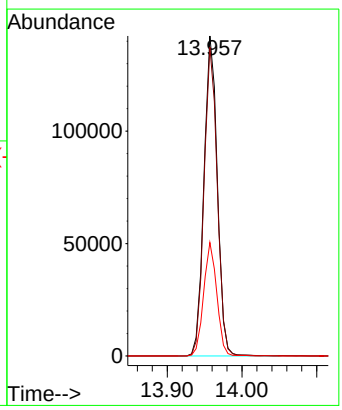


#96
1,2,3-Trichlorobenzene
Concen: 48.632 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:180 Resp: 176412

Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.0	144.2
145	34.9	17.4	52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	93	-0.01
2	T	Dichlorodifluoromethane	0.637	0.619	2.8	79	0.00
3	P	Chloromethane	0.573	0.524	8.6	78	0.00
4	C	Vinyl Chloride	0.720	0.671	6.8#	78	0.00
5	T	Bromomethane	0.291	0.280	3.8	77	0.00
6	T	Chloroethane	0.440	0.388	11.8	78	0.00
7	T	Trichlorofluoromethane	1.065	1.004	5.7	79	0.00
8	T	Diethyl Ether	0.375	0.367	2.1	82	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.618	0.619	-0.2	83	0.00
10	T	Methyl Iodide	1.058	0.791	25.2#	63	0.00
11	T	Tert butyl alcohol	0.061	0.070	-14.8	95	0.00
12	CM	1,1-Dichloroethene	0.630	0.586	7.0#	78	0.00
13	T	Acrolein	0.129	0.150	-16.3	106	0.00
14	T	Allyl chloride	1.093	1.054	3.6	81	0.00
15	T	Acrylonitrile	0.294	0.311	-5.8	85	0.00
16	T	Acetone	0.263	0.306	-16.3	102	0.00
17	T	Carbon Disulfide	1.900	1.634	14.0	76	0.00
18	T	Methyl Acetate	0.682	0.758	-11.1	92	0.00
19	T	Methyl tert-butyl Ether	1.915	1.920	-0.3	82	0.00
20	T	Methylene Chloride	0.697	0.654	6.2	80	0.00
21	T	trans-1,2-Dichloroethene	0.668	0.621	7.0	80	0.00
22	T	Diisopropyl ether	2.161	2.161	0.0	82	-0.01
23	T	Vinyl Acetate	1.772	1.804	-1.8	82	0.00
24	P	1,1-Dichloroethane	1.222	1.158	5.2	79	0.00
25	T	2-Butanone	0.344	0.389	-13.1	93	0.00
26	T	2,2-Dichloropropane	0.922	0.885	4.0	81	-0.01
27	T	cis-1,2-Dichloroethene	0.778	0.733	5.8	81	0.00
28	T	Bromochloromethane	0.508	0.535	-5.3	92	0.00
29	T	Tetrahydrofuran	0.223	0.232	-4.0	88	-0.01
30	C	Chloroform	1.247	1.188	4.7#	81	0.00
31	T	Cyclohexane	1.126	1.049	6.8	81	0.00
32	T	1,1,1-Trichloroethane	1.073	1.016	5.3	79	0.00
33	S	1,2-Dichloroethane-d4	0.700	0.747	-6.7	99	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
35	S	Dibromofluoromethane	0.325	0.355	-9.2	98	0.00
36	T	1,1-Dichloropropene	0.512	0.485	5.3	79	-0.01
37	T	Ethyl Acetate	0.532	0.538	-1.1	83	0.00
38	T	Carbon Tetrachloride	0.560	0.532	5.0	80	0.00
39	T	Methylcyclohexane	0.639	0.615	3.8	81	0.00
40	TM	Benzene	1.533	1.484	3.2	80	0.00
41	T	Methacrylonitrile	0.224	0.220	1.8	78	-0.01
42	TM	1,2-Dichloroethane	0.543	0.539	0.7	82	0.00
43	T	Isopropyl Acetate	0.764	0.786	-2.9	83	0.00
44	TM	Trichloroethene	0.393	0.368	6.4	78	0.00
45	C	1,2-Dichloropropane	0.384	0.378	1.6#	82	0.00
46	T	Dibromomethane	0.279	0.274	1.8	83	0.00
47	T	Bromodichloromethane	0.578	0.576	0.3	83	0.00
48	T	Methyl methacrylate	0.397	0.406	-2.3	83	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	100	0.00
50	S	Toluene-d8	1.160	1.231	-6.1	96	0.00
51	T	4-Methyl-2-Pentanone	0.440	0.471	-7.0	84	0.00
52	CM	Toluene	0.947	0.929	1.9#	80	0.00
53	T	t-1,3-Dichloropropene	0.505	0.529	-4.8	83	0.00
54	T	cis-1,3-Dichloropropene	0.571	0.580	-1.6	82	0.00
55	T	1,1,2-Trichloroethane	0.360	0.361	-0.3	83	0.00
56	T	Ethyl methacrylate	0.530	0.553	-4.3	82	0.00
57	T	1,3-Dichloropropane	0.613	0.620	-1.1	84	0.00
58	T	2-Chloroethyl Vinyl ether	0.211	0.262	-24.2	87	0.00
59	T	2-Hexanone	0.304	0.329	-8.2	87	0.00
60	T	Dibromochloromethane	0.428	0.430	-0.5	84	0.00
61	T	1,2-Dibromoethane	0.371	0.370	0.3	83	0.00
62	S	4-Bromofluorobenzene	0.428	0.465	-8.6	99	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
64	T	Tetrachloroethene	0.362	0.335	7.5	79	0.00
65	PM	Chlorobenzene	1.188	1.113	6.3	81	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.383	4.7	81	0.00
67	C	Ethyl Benzene	2.045	1.938	5.2#	79	0.00
68	T	m/p-Xylenes	0.763	0.737	3.4	80	0.00
69	T	o-Xylene	0.734	0.703	4.2	81	0.00
70	T	Styrene	1.240	1.217	1.9	80	0.00
71	P	Bromoform	0.302	0.303	-0.3	84	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
73	T	Isopropylbenzene	3.913	3.810	2.6	81	0.00
74	T	N-amyl acetate	1.486	1.522	-2.4	82	0.00
75	P	1,1,2,2-Tetrachloroethane	1.149	1.148	0.1	85	0.00
76	T	1,2,3-Trichloropropane	0.917	0.931	-1.5	86	0.00
77	T	Bromobenzene	0.955	0.915	4.2	81	0.00
78	T	n-propylbenzene	4.673	4.544	2.8	82	0.00
79	T	2-Chlorotoluene	2.825	2.678	5.2	81	0.00
80	T	1,3,5-Trimethylbenzene	3.219	3.118	3.1	81	0.00
81	T	trans-1,4-Dichloro-2-butene	0.178	0.197	-10.7	92	0.00
82	T	4-Chlorotoluene	3.330	3.164	5.0	81	0.00
83	T	tert-Butylbenzene	3.212	3.174	1.2	82	0.00
84	T	1,2,4-Trimethylbenzene	3.219	3.149	2.2	81	0.00
85	T	sec-Butylbenzene	3.981	3.963	0.5	84	0.00
86	T	p-Isopropyltoluene	3.369	3.312	1.7	83	0.00
87	T	1,3-Dichlorobenzene	1.825	1.723	5.6	81	0.00
88	T	1,4-Dichlorobenzene	1.877	1.739	7.4	82	0.00
89	T	n-Butylbenzene	3.133	3.145	-0.4	85	0.00
90	T	Hexachloroethane	0.591	0.583	1.4	83	0.00
91	T	1,2-Dichlorobenzene	1.733	1.647	5.0	83	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.222	0.224	-0.9	85	0.00
93	T	1,2,4-Trichlorobenzene	1.161	1.121	3.4	85	0.00
94	T	Hexachlorobutadiene	0.413	0.427	-3.4	99	0.00
95	T	Naphthalene	3.319	3.414	-2.9	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1.095	1.065	2.7	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	93	-0.01
2	T	Dichlorodifluoromethane	50.000	48.557	2.9	79	0.00
3	P	Chloromethane	50.000	45.729	8.5	78	0.00
4	C	Vinyl Chloride	50.000	46.643	6.7#	78	0.00
5	T	Bromomethane	50.000	48.121	3.8	77	0.00
6	T	Chloroethane	50.000	44.036	11.9	78	0.00
7	T	Trichlorofluoromethane	50.000	47.149	5.7	79	0.00
8	T	Diethyl Ether	50.000	48.968	2.1	82	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.129	-0.3	83	0.00
10	T	Methyl Iodide	50.000	37.360	25.3#	63	0.00
11	T	Tert butyl alcohol	250.000	285.760	-14.3	95	0.00
12	CM	1,1-Dichloroethene	50.000	46.532	6.9#	78	0.00
13	T	Acrolein	250.000	292.470	-17.0	106	0.00
14	T	Allyl chloride	50.000	48.177	3.6	81	0.00
15	T	Acrylonitrile	250.000	264.563	-5.8	85	0.00
16	T	Acetone	250.000	290.885	-16.4	102	0.00
17	T	Carbon Disulfide	50.000	43.008	14.0	76	0.00
18	T	Methyl Acetate	50.000	55.608	-11.2	92	0.00
19	T	Methyl tert-butyl Ether	50.000	50.130	-0.3	82	0.00
20	T	Methylene Chloride	50.000	46.976	6.0	80	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.500	7.0	80	0.00
22	T	Diisopropyl ether	50.000	49.981	0.0	82	-0.01
23	T	Vinyl Acetate	250.000	254.613	-1.8	82	0.00
24	P	1,1-Dichloroethane	50.000	47.405	5.2	79	0.00
25	T	2-Butanone	250.000	282.551	-13.0	93	0.00
26	T	2,2-Dichloropropane	50.000	47.981	4.0	81	-0.01
27	T	cis-1,2-Dichloroethene	50.000	47.103	5.8	81	0.00
28	T	Bromochloromethane	50.000	52.582	-5.2	92	0.00
29	T	Tetrahydrofuran	250.000	261.014	-4.4	88	-0.01
30	C	Chloroform	50.000	47.660	4.7#	81	0.00
31	T	Cyclohexane	50.000	46.560	6.9	81	0.00
32	T	1,1,1-Trichloroethane	50.000	47.325	5.3	79	0.00
33	S	1,2-Dichloroethane-d4	50.000	53.348	-6.7	99	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	91	0.00
35	S	Dibromofluoromethane	50.000	54.744	-9.5	98	0.00
36	T	1,1-Dichloropropene	50.000	47.379	5.2	79	-0.01
37	T	Ethyl Acetate	50.000	50.571	-1.1	83	0.00
38	T	Carbon Tetrachloride	50.000	47.480	5.0	80	0.00
39	T	Methylcyclohexane	50.000	48.139	3.7	81	0.00
40	TM	Benzene	50.000	48.393	3.2	80	0.00
41	T	Methacrylonitrile	50.000	49.094	1.8	78	-0.01
42	TM	1,2-Dichloroethane	50.000	49.602	0.8	82	0.00
43	T	Isopropyl Acetate	50.000	51.437	-2.9	83	0.00
44	TM	Trichloroethene	50.000	46.924	6.2	78	0.00
45	C	1,2-Dichloropropane	50.000	49.152	1.7#	82	0.00
46	T	Dibromomethane	50.000	49.216	1.6	83	0.00
47	T	Bromodichloromethane	50.000	49.856	0.3	83	0.00
48	T	Methyl methacrylate	50.000	51.141	-2.3	83	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1275.197	-27.5#	100	0.00
50	S	Toluene-d8	50.000	53.057	-6.1	96	0.00
51	T	4-Methyl-2-Pentanone	250.000	268.005	-7.2	84	0.00
52	CM	Toluene	50.000	49.011	2.0#	80	0.00
53	T	t-1,3-Dichloropropene	50.000	52.441	-4.9	83	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.782	-1.6	82	0.00
55	T	1,1,2-Trichloroethane	50.000	50.160	-0.3	83	0.00
56	T	Ethyl methacrylate	50.000	52.154	-4.3	82	0.00
57	T	1,3-Dichloropropane	50.000	50.551	-1.1	84	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	258.666	-3.5	87	0.00
59	T	2-Hexanone	250.000	270.640	-8.3	87	0.00
60	T	Dibromochloromethane	50.000	50.268	-0.5	84	0.00
61	T	1,2-Dibromoethane	50.000	49.876	0.2	83	0.00
62	S	4-Bromofluorobenzene	50.000	54.278	-8.6	99	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	93	0.00
64	T	Tetrachloroethene	50.000	46.376	7.2	79	0.00
65	PM	Chlorobenzene	50.000	46.849	6.3	81	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	47.629	4.7	81	0.00
67	C	Ethyl Benzene	50.000	47.382	5.2#	79	0.00
68	T	m/p-Xylenes	100.000	96.706	3.3	80	0.00
69	T	o-Xylene	50.000	47.927	4.1	81	0.00
70	T	Styrene	50.000	49.091	1.8	80	0.00
71	P	Bromoform	50.000	50.173	-0.3	84	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
73	T	Isopropylbenzene	50.000	48.683	2.6	81	0.00
74	T	N-amyl acetate	50.000	51.206	-2.4	82	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.970	0.1	85	0.00
76	T	1,2,3-Trichloropropane	50.000	50.771	-1.5	86	0.00
77	T	Bromobenzene	50.000	47.888	4.2	81	0.00
78	T	n-propylbenzene	50.000	48.618	2.8	82	0.00
79	T	2-Chlorotoluene	50.000	47.399	5.2	81	0.00
80	T	1,3,5-Trimethylbenzene	50.000	48.420	3.2	81	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.211	5.6	92	0.00
82	T	4-Chlorotoluene	50.000	47.507	5.0	81	0.00
83	T	tert-Butylbenzene	50.000	49.413	1.2	82	0.00
84	T	1,2,4-Trimethylbenzene	50.000	48.900	2.2	81	0.00
85	T	sec-Butylbenzene	50.000	49.771	0.5	84	0.00
86	T	p-Isopropyltoluene	50.000	49.153	1.7	83	0.00
87	T	1,3-Dichlorobenzene	50.000	47.198	5.6	81	0.00
88	T	1,4-Dichlorobenzene	50.000	46.327	7.3	82	0.00
89	T	n-Butylbenzene	50.000	50.180	-0.4	85	0.00
90	T	Hexachloroethane	50.000	49.346	1.3	83	0.00
91	T	1,2-Dichlorobenzene	50.000	47.527	4.9	83	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.361	-0.7	85	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.275	3.5	85	0.00
94	T	Hexachlorobutadiene	50.000	51.627	-3.3	99	0.00
95	T	Naphthalene	50.000	51.423	-2.8	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	48.632	2.7	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: FIRS02

Lab Code: ACE | SDG No.: Q2815

Instrument ID: MSVOA_X | Calibration Date/Time: 08/20/2025 19:01

Lab File ID: VX047453.D | Init. Calib. Date(s): 08/15/2025 08/15/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:40 12:30

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.637	0.566		-11.15	50
Chloromethane	0.573	0.541	0.1	-5.59	50
Vinyl Chloride	0.720	0.667		-7.36	50
Bromomethane	0.291	0.202		-30.58	50
Chloroethane	0.440	0.421		-4.32	50
Trichlorofluoromethane	1.065	0.957		-10.14	50
1,1,2-Trichlorotrifluoroethane	0.618	0.557		-9.87	50
1,1-Dichloroethene	0.630	0.591		-6.19	50
Acetone	0.263	0.271		3.04	50
Carbon Disulfide	1.900	1.599		-15.84	50
Methyl tert-butyl Ether	1.915	2.097		9.5	50
Methyl Acetate	0.682	0.860		26.1	50
Methylene Chloride	0.697	0.705		1.15	50
trans-1,2-Dichloroethene	0.668	0.645		-3.44	50
1,1-Dichloroethane	1.222	1.236	0.1	1.15	50
Cyclohexane	1.126	0.998		-11.37	50
2-Butanone	0.344	0.424		23.26	50
Carbon Tetrachloride	0.560	0.479		-14.46	50
cis-1,2-Dichloroethene	0.778	0.790		1.54	50
Bromochloromethane	0.508	0.596		17.32	50
Chloroform	1.247	1.266		1.52	50
1,1,1-Trichloroethane	1.073	1.030		-4.01	50
Methylcyclohexane	0.639	0.516		-19.25	50
Benzene	1.533	1.447		-5.61	50
1,2-Dichloroethane	0.543	0.531		-2.21	50
Trichloroethene	0.393	0.357		-9.16	50
1,2-Dichloropropane	0.384	0.375		-2.34	50
Bromodichloromethane	0.578	0.552		-4.5	50
4-Methyl-2-Pentanone	0.440	0.489		11.14	50
Toluene	0.947	0.892		-5.81	50
t-1,3-Dichloropropene	0.505	0.500		-0.99	50
cis-1,3-Dichloropropene	0.571	0.552		-3.33	50
1,1,2-Trichloroethane	0.360	0.359		-0.28	50
2-Hexanone	0.304	0.334		9.87	50
Dibromochloromethane	0.428	0.410		-4.21	50
1,2-Dibromoethane	0.371	0.365		-1.62	50
Tetrachloroethene	0.362	0.316		-12.71	50
Chlorobenzene	1.188	1.090	0.3	-8.25	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: FIRS02

Lab Code: ACE SDG No.: Q2815

Instrument ID: MSVOA_X Calibration Date/Time: 08/20/2025 19:01

Lab File ID: VX047453.D Init. Calib. Date(s): 08/15/2025 08/15/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:40 12:30

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.045	1.880		-8.07	50
m/p-Xylenes	0.763	0.697		-8.65	50
o-Xylene	0.734	0.685		-6.68	50
Styrene	1.240	1.201		-3.14	50
Bromoform	0.302	0.292	0.1	-3.31	50
Isopropylbenzene	3.913	3.568		-8.82	50
1,1,2,2-Tetrachloroethane	1.149	1.149	0.3	0	50
1,3-Dichlorobenzene	1.825	1.644		-9.92	50
1,4-Dichlorobenzene	1.877	1.639		-12.68	50
1,2-Dichlorobenzene	1.733	1.602		-7.56	50
1,2-Dibromo-3-Chloropropane	0.222	0.227		2.25	50
1,2,4-Trichlorobenzene	1.161	1.028		-11.46	50
1,2,3-Trichlorobenzene	1.095	0.994		-9.22	50
1,2-Dichloroethane-d4	0.700	0.774		10.57	50
Dibromofluoromethane	0.325	0.329		1.23	50
Toluene-d8	1.160	1.140		-1.72	50
4-Bromofluorobenzene	0.428	0.439		2.57	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\VX082025\
Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 21 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	219510	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	397450	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	362824	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	178130	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	169837	55.283	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 110.560%			
35) Dibromofluoromethane	5.403	113	130938	50.761	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.520%			
50) Toluene-d8	8.653	98	453029	49.137	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.280%			
62) 4-Bromofluorobenzene	11.079	95	174471	51.281	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	124163	44.372	ug/l	99
3) Chloromethane	1.312	50	118789	47.189	ug/l	100
4) Vinyl Chloride	1.392	62	146404	46.337	ug/l	99
5) Bromomethane	1.623	94	44398	34.789	ug/l	98
6) Chloroethane	1.703	64	92359	47.777	ug/l	100
7) Trichlorofluoromethane	1.904	101	210004	44.935	ug/l	98
8) Diethyl Ether	2.148	74	86525	52.580	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	122337	45.126	ug/l	99
10) Methyl Iodide	2.471	142	128119	27.577	ug/l	98
11) Tert butyl alcohol	2.965	59	90515	338.682	ug/l	99
12) 1,1-Dichloroethene	2.337	96	129789	46.960	ug/l	99
13) Acrolein	2.251	56	165995	294.230	ug/l	99
14) Allyl chloride	2.684	41	238562	49.697	ug/l	98
15) Acrylonitrile	3.086	53	371314	287.522	ug/l	100
16) Acetone	2.391	43	297957	258.028	ug/l	100
17) Carbon Disulfide	2.532	76	351042	42.091	ug/l	100
18) Methyl Acetate	2.715	43	188724	63.067	ug/l	99
19) Methyl tert-butyl Ether	3.129	73	460381	54.755	ug/l	98
20) Methylene Chloride	2.806	84	154803	50.626	ug/l	99
21) trans-1,2-Dichloroethene	3.111	96	141639	48.285	ug/l	97
22) Diisopropyl ether	3.775	45	514249	54.195	ug/l	95
23) Vinyl Acetate	3.739	43	2139175	275.048	ug/l	100
24) 1,1-Dichloroethane	3.623	63	271347	50.593	ug/l	97
25) 2-Butanone	4.574	43	465244	307.630	ug/l	99
26) 2,2-Dichloropropane	4.489	77	168046	41.513	ug/l	100
27) cis-1,2-Dichloroethene	4.507	96	173414	50.756	ug/l	98
28) Bromochloromethane	4.915	49	130876	58.641	ug/l	100
29) Tetrahydrofuran	5.025	42	289688	296.359	ug/l	100
30) Chloroform	5.111	83	277931	50.776	ug/l	96
31) Cyclohexane	5.488	56	219086	44.313	ug/l	99
32) 1,1,1-Trichloroethane	5.397	97	226085	47.987	ug/l	99
36) 1,1-Dichloropropene	5.708	75	183283	45.011	ug/l	99
37) Ethyl Acetate	4.733	43	210658	49.833	ug/l	99
38) Carbon Tetrachloride	5.690	117	190198	42.744	ug/l	99
39) Methylcyclohexane	7.391	83	204976	40.357	ug/l	97
40) Benzene	6.049	78	575192	47.193	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 21 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	95846	53.767	ug/l		98
42) 1,2-Dichloroethane	6.098	62	211130	48.905	ug/l		100
43) Isopropyl Acetate	6.348	43	329536	54.264	ug/l		99
44) Trichloroethene	7.135	130	141897	45.468	ug/l		99
45) 1,2-Dichloropropane	7.439	63	149101	48.832	ug/l		99
46) Dibromomethane	7.586	93	108227	48.823	ug/l		98
47) Bromodichloromethane	7.830	83	219351	47.732	ug/l		96
48) Methyl methacrylate	7.695	41	167405	53.107	ug/l		99
49) 1,4-Dioxane	7.683	88	37678	1229.562	ug/l		97
51) 4-Methyl-2-Pentanone	8.573	43	972174	278.187	ug/l		98
52) Toluene	8.720	92	354651	47.090	ug/l		99
53) t-1,3-Dichloropropene	8.982	75	198566	49.509	ug/l		98
54) cis-1,3-Dichloropropene	8.372	75	219408	48.331	ug/l		98
55) 1,1,2-Trichloroethane	9.152	97	142557	49.854	ug/l		98
56) Ethyl methacrylate	9.116	69	227071	53.861	ug/l		99
57) 1,3-Dichloropropane	9.311	76	242512	49.771	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	517470	256.814	ug/l		99
59) 2-Hexanone	9.433	43	664708	274.974	ug/l		99
60) Dibromochloromethane	9.518	129	163031	47.975	ug/l		99
61) 1,2-Dibromoethane	9.610	107	145018	49.181	ug/l		99
64) Tetrachloroethene	9.274	164	114609	43.671	ug/l		98
65) Chlorobenzene	10.079	112	395517	45.872	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.164	131	134787	46.245	ug/l		100
67) Ethyl Benzene	10.195	91	682262	45.975	ug/l		99
68) m/p-Xylenes	10.299	106	505624	91.376	ug/l		98
69) o-Xylene	10.640	106	248628	46.690	ug/l		100
70) Styrene	10.652	104	435716	48.426	ug/l		100
71) Bromoform	10.799	173	105843	48.338	ug/l	#	99
73) Isopropylbenzene	10.963	105	635537	45.592	ug/l		99
74) N-amyl acetate	10.841	43	274391	51.837	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	204727	50.022	ug/l		99
76) 1,2,3-Trichloropropane	11.237	75	163610m	50.078	ug/l		
77) Bromobenzene	11.195	156	158725	46.630	ug/l		99
78) n-propylbenzene	11.305	91	748109	44.937	ug/l		99
79) 2-Chlorotoluene	11.359	91	458958	45.604	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	524391	45.721	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	27349	38.529	ug/l		96
82) 4-Chlorotoluene	11.451	91	536951	45.262	ug/l		100
83) tert-Butylbenzene	11.713	119	524851	45.868	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	533947	46.554	ug/l		99
85) sec-Butylbenzene	11.890	105	636533	44.881	ug/l		100
86) p-Isopropyltoluene	12.006	119	533633	44.464	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	292853	45.035	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	292001	43.659	ug/l		99
89) n-Butylbenzene	12.329	91	484331	43.388	ug/l		99
90) Hexachloroethane	12.536	117	90925	43.186	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	285344	46.230	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	40467	51.127	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	183154	44.264	ug/l		99
94) Hexachlorobutadiene	13.719	225	54992	37.337	ug/l		97
95) Naphthalene	13.774	128	685477	57.969	ug/l		100
96) 1,2,3-Trichlorobenzene	13.956	180	176999	45.381	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 21 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

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\VX082025\
Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
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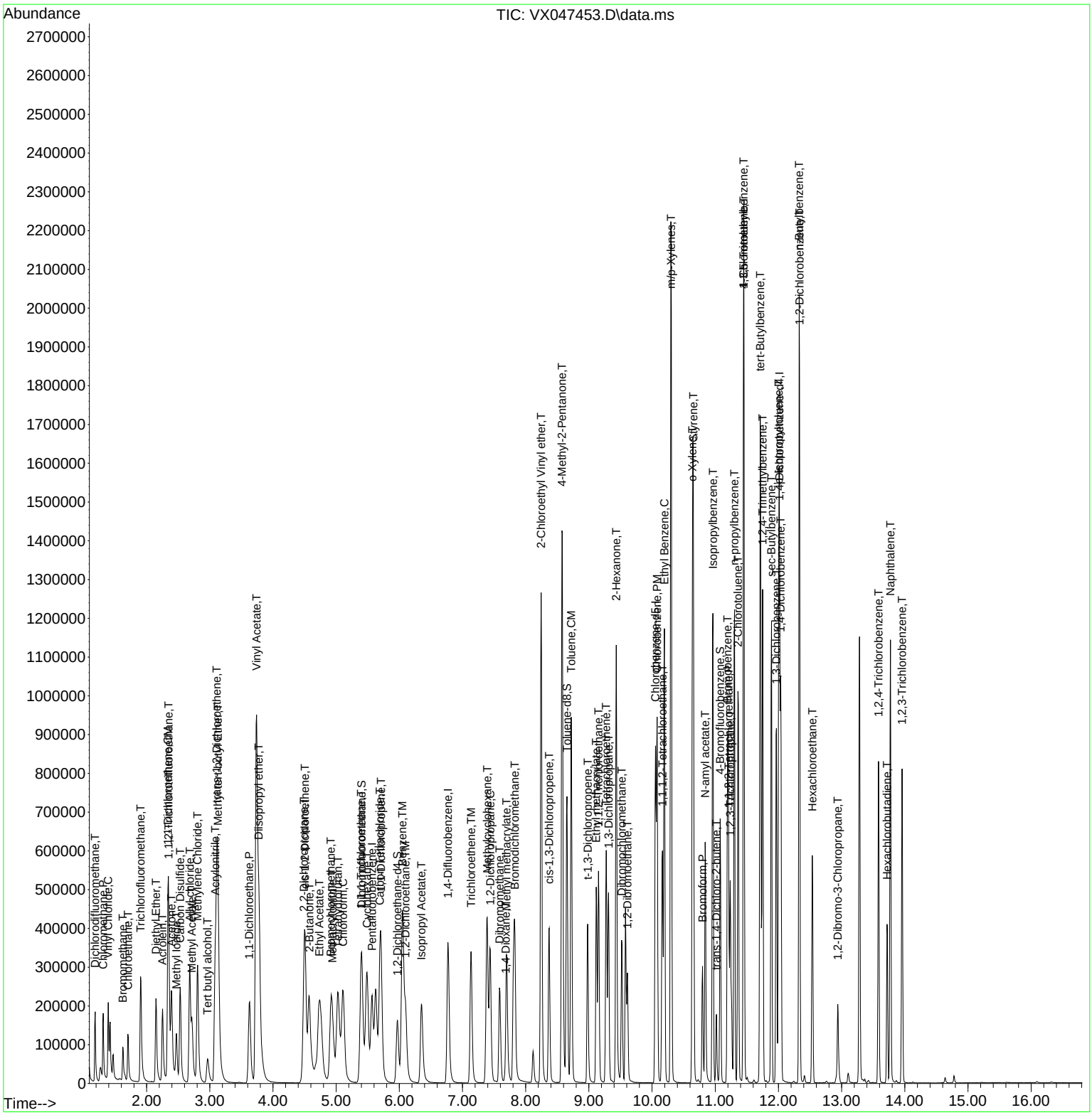
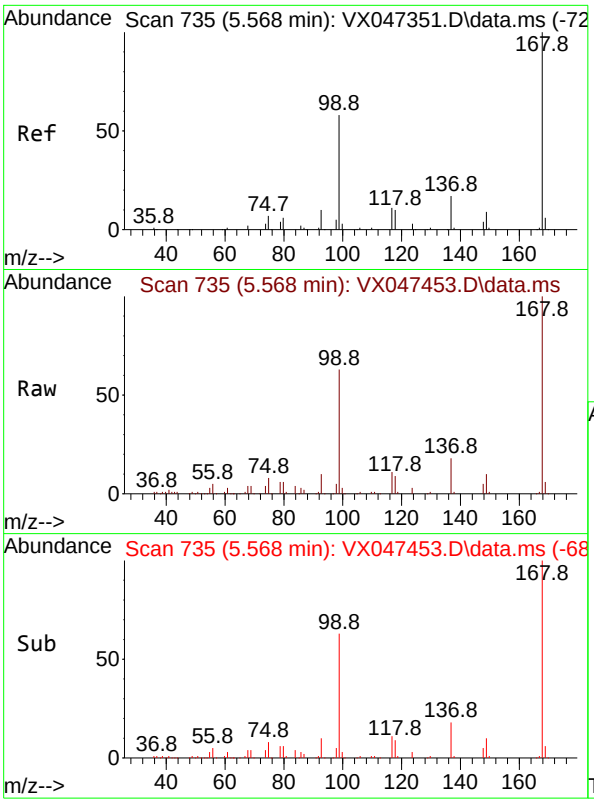
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

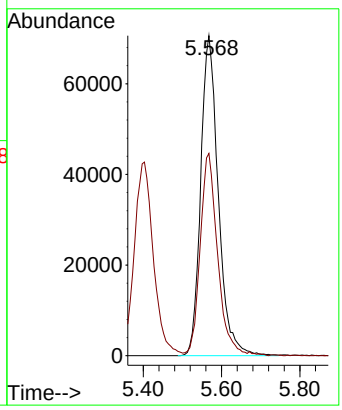




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:168 Resp: 21951

Ion	Ratio	Lower	Upper
168	100		
99	63.0	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/21/2025
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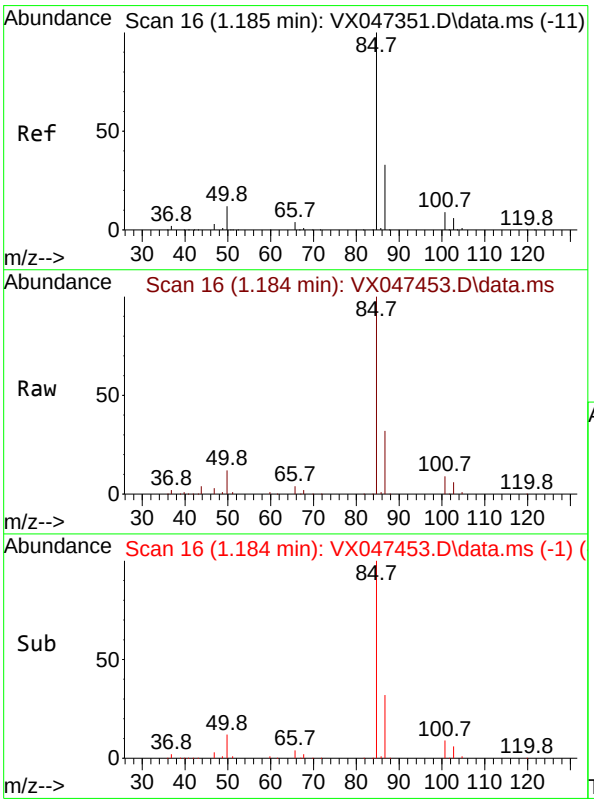
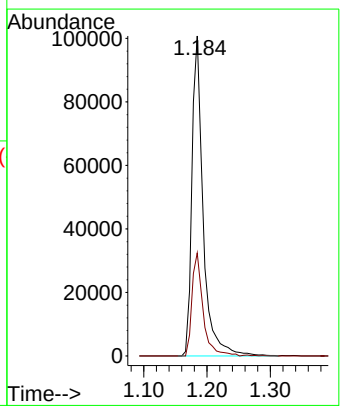
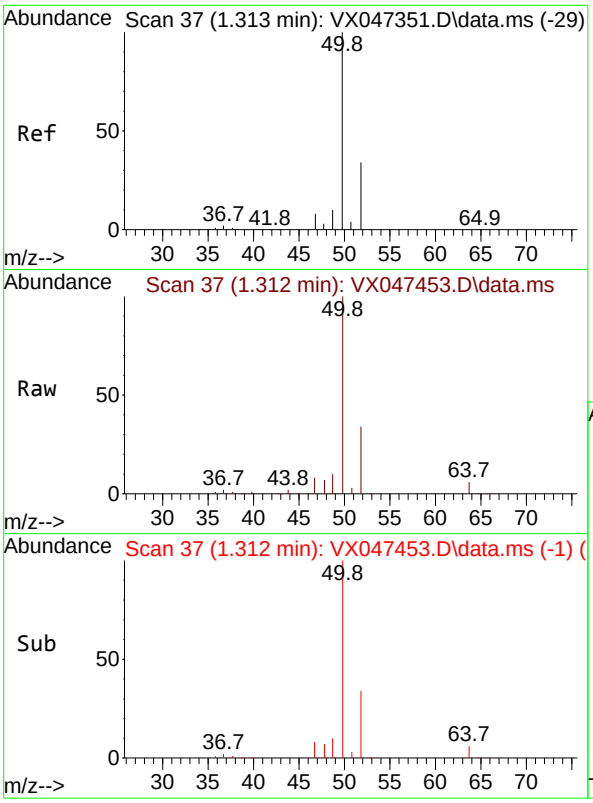


#2
Dichlorodifluoromethane
Concen: 44.372 ug/l
RT: 1.184 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 85 Resp: 124163

Ion	Ratio	Lower	Upper
85	100		
87	32.2	16.4	49.1

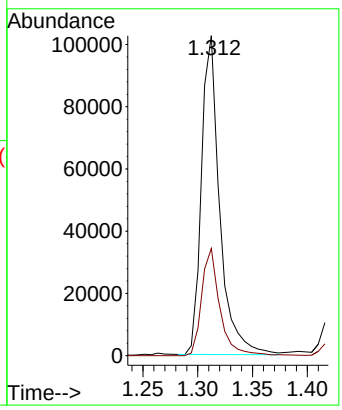




#3
Chloromethane
Concen: 47.189 ug/l
RT: 1.312 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 50 Resp: 11878

Ion	Ratio	Lower	Upper
50	100		
52	33.7	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/21/2025
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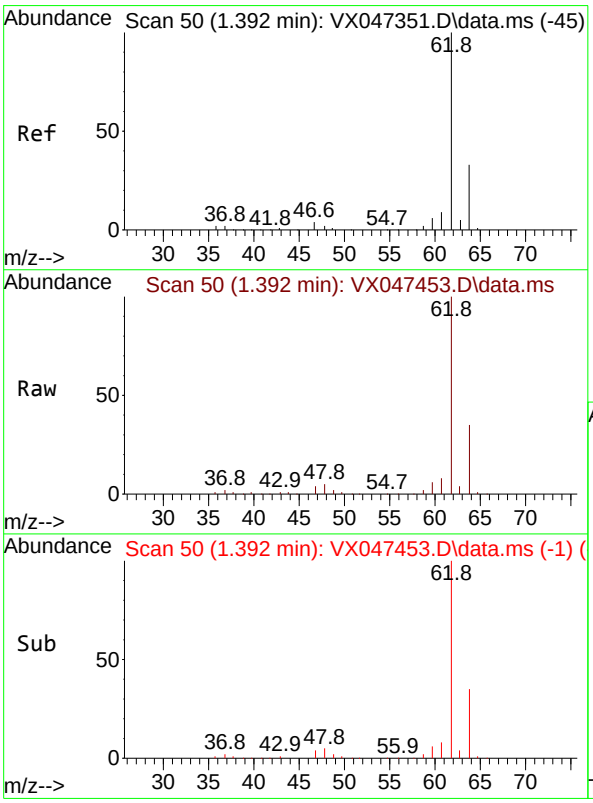
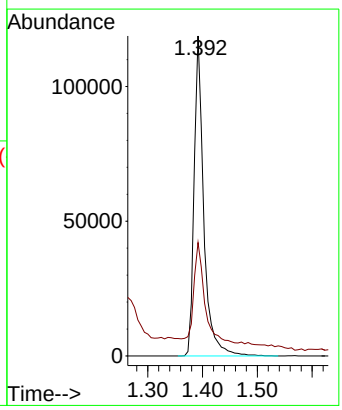
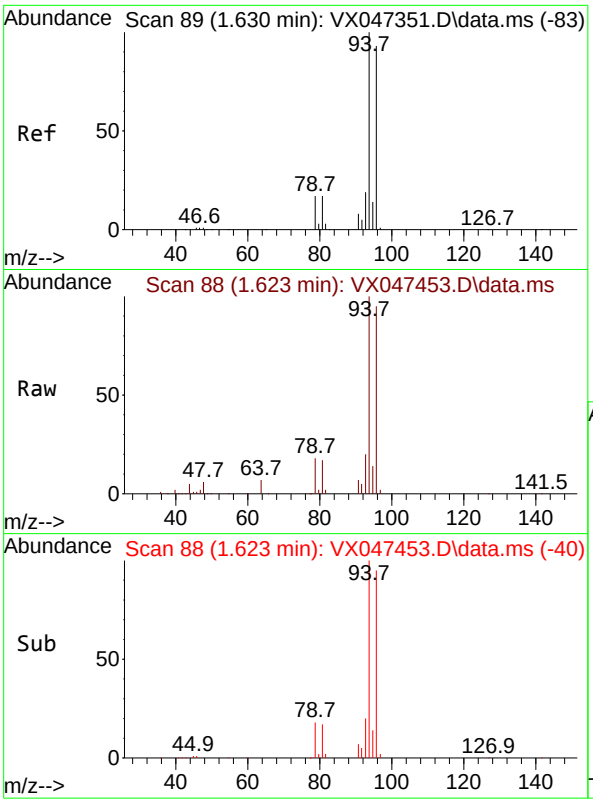


#4
Vinyl Chloride
Concen: 46.337 ug/l
RT: 1.392 min Scan# 50
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 62 Resp: 146404

Ion	Ratio	Lower	Upper
62	100		
64	32.3	26.5	39.7

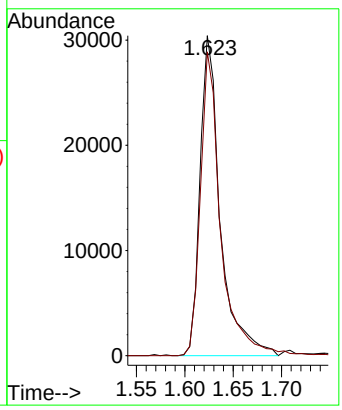




#5
Bromomethane
Concen: 34.789 ug/l
RT: 1.623 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 94 Resp: 4439

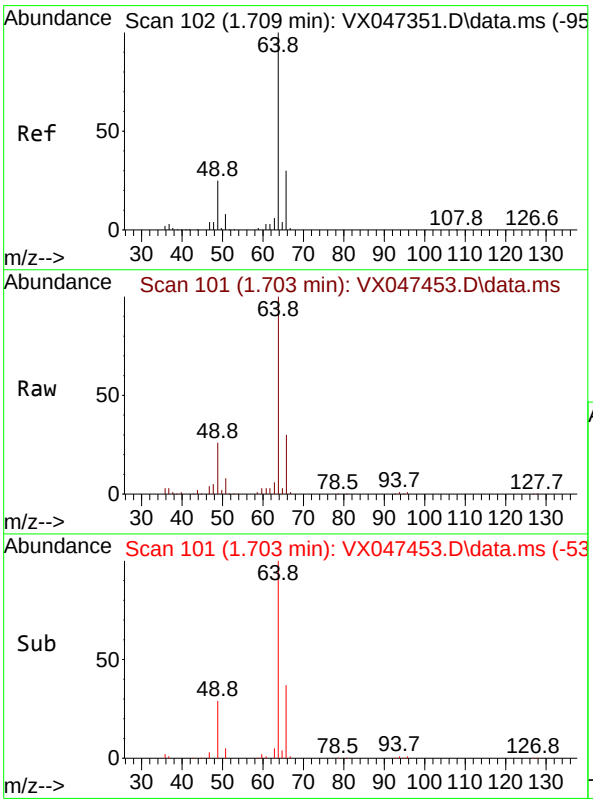
Ion	Ratio	Lower	Upper
94	100		
96	95.0	74.7	112.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

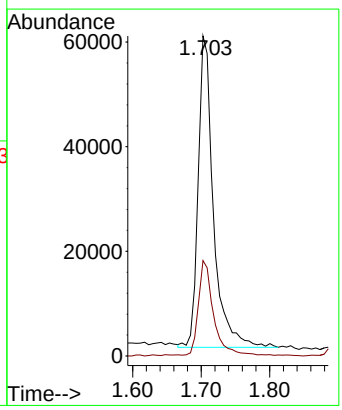
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

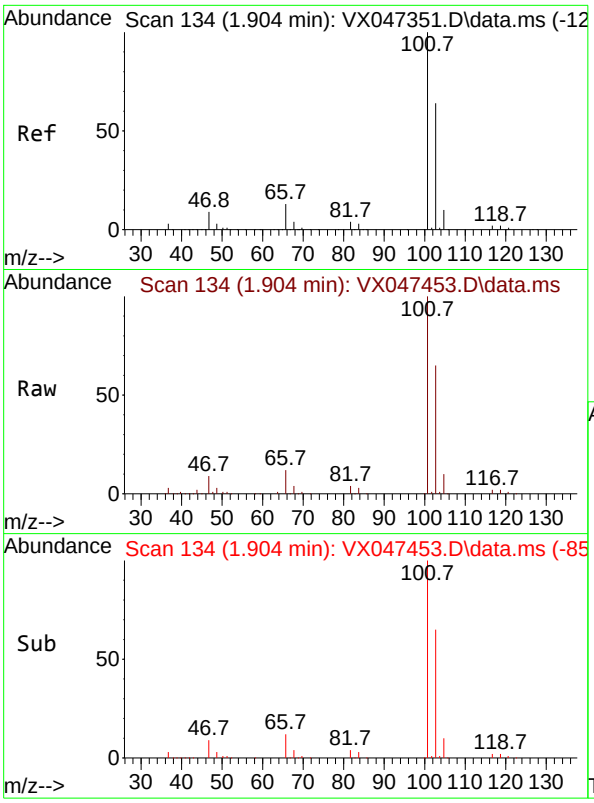


#6
Chloroethane
Concen: 47.777 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 64 Resp: 92359

Ion	Ratio	Lower	Upper
64	100		
66	30.3	24.4	36.6





#7
Trichlorofluoromethane
Concen: 44.935 ug/l
RT: 1.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:101 Resp: 21000

Ion	Ratio	Lower	Upper
101	100		
103	65.3	50.9	76.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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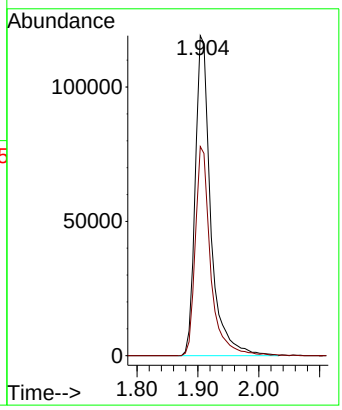
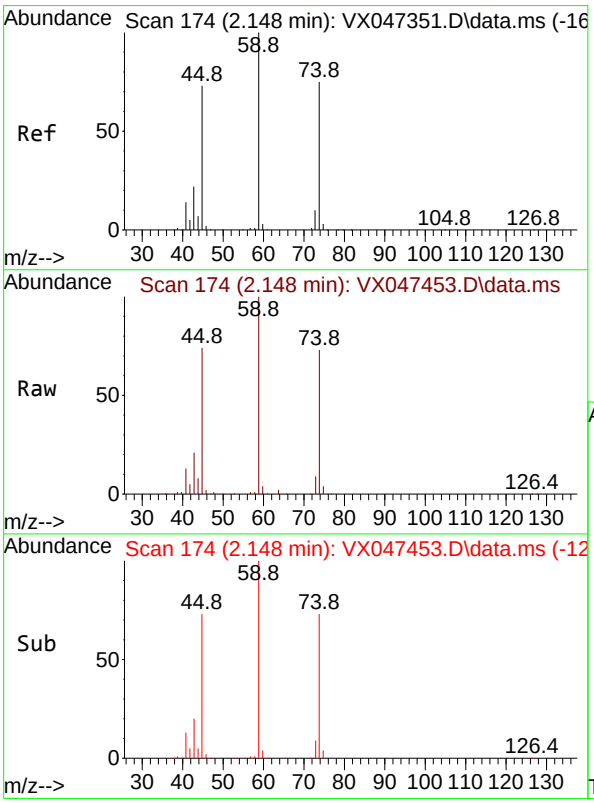
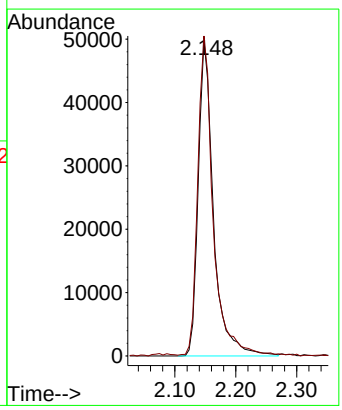


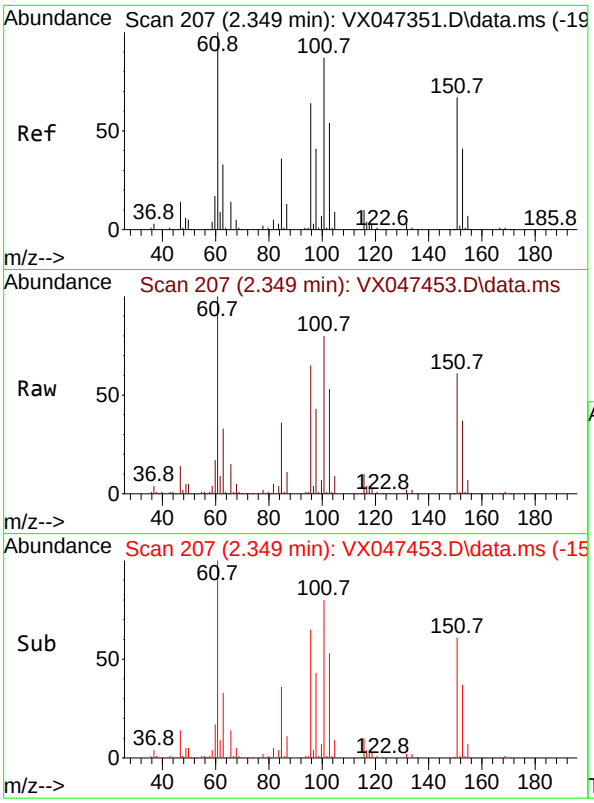


#8
Diethyl Ether
Concen: 52.580 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 74 Resp: 86525

Ion	Ratio	Lower	Upper
74	100		
45	102.3	51.3	154.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.126 ug/l
RT: 2.349 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:101 Resp: 12233

Ion	Ratio	Lower	Upper
101	100		
85	43.5	34.3	51.5
151	74.5	59.2	88.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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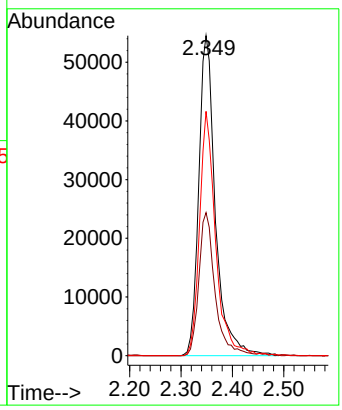
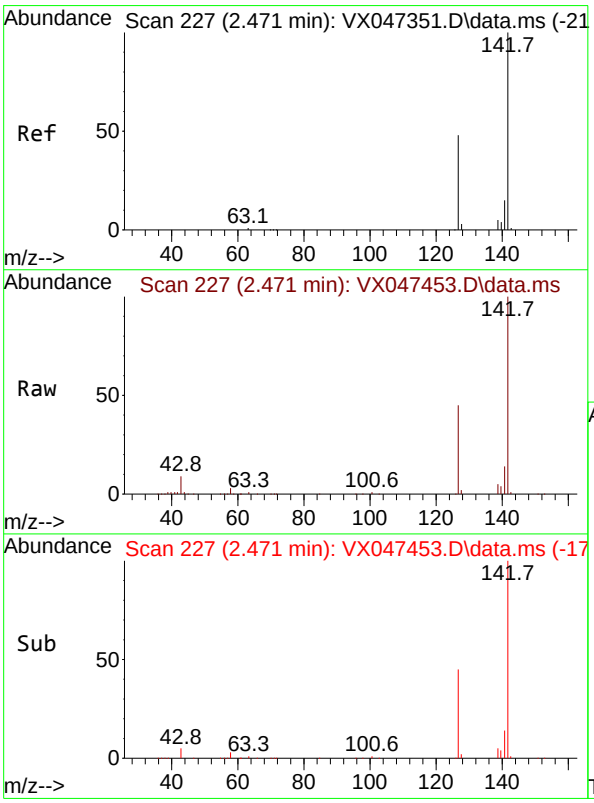
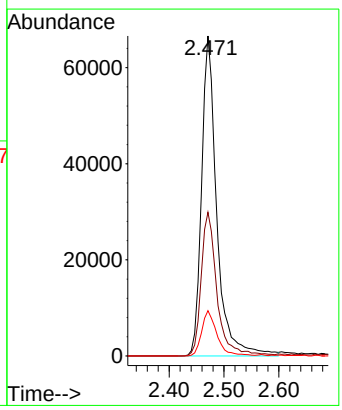


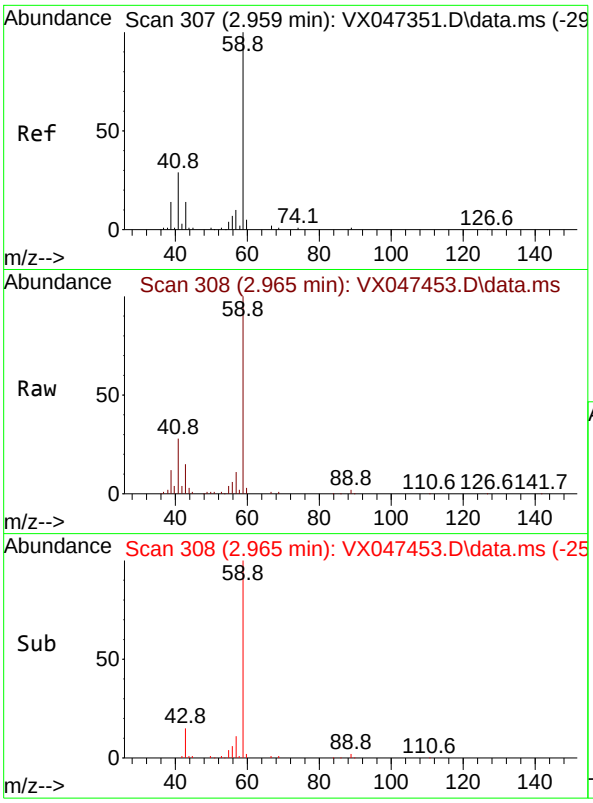


#10
Methyl Iodide
Concen: 27.577 ug/l
RT: 2.471 min Scan# 227
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:142 Resp: 128119

Ion	Ratio	Lower	Upper
142	100		
127	46.7	36.1	54.1
141	14.2	11.1	16.7

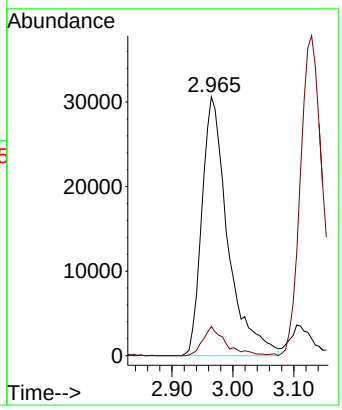




#11
Tert butyl alcohol
Concen: 338.682 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 59 Resp: 9051

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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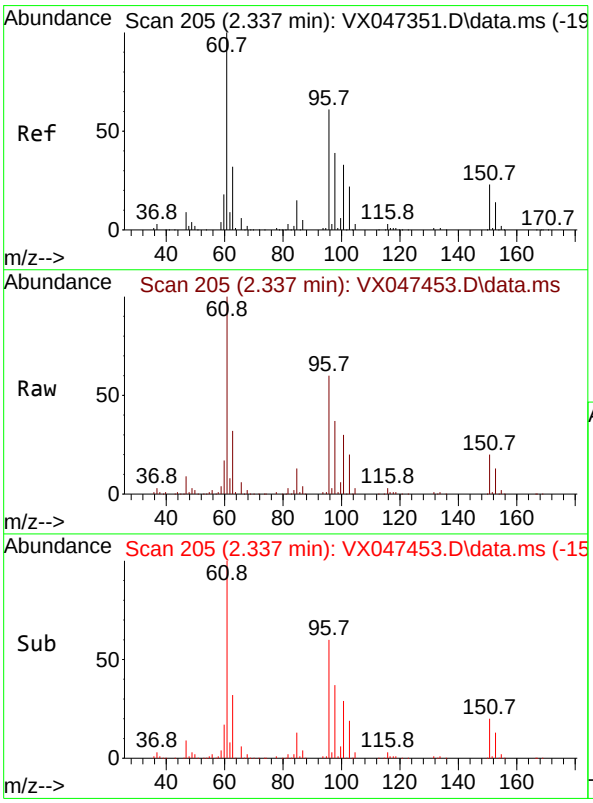
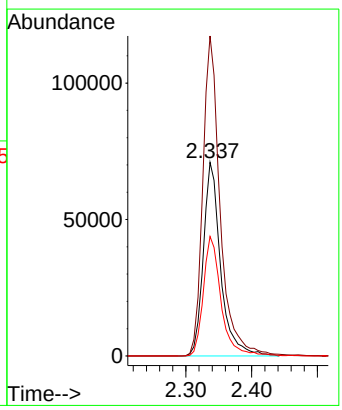
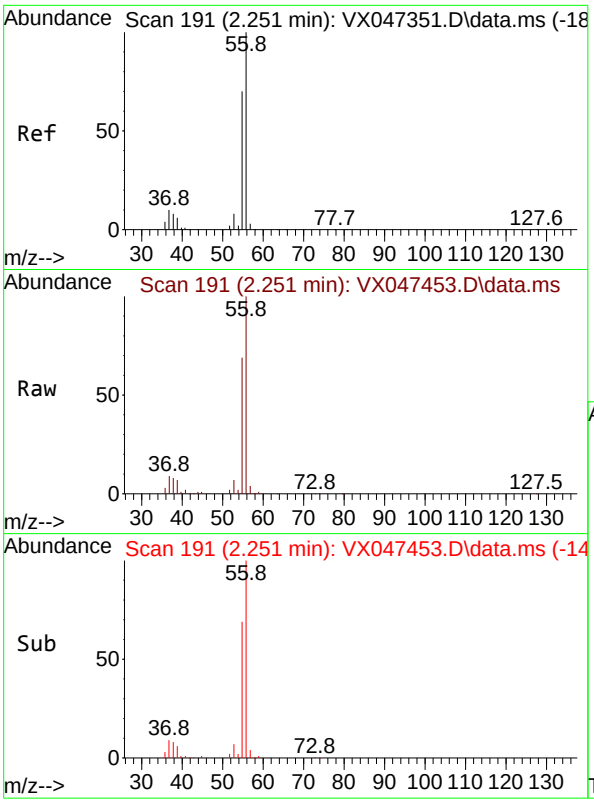


#12
1,1-Dichloroethene
Concen: 46.960 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 96 Resp: 129789

Ion	Ratio	Lower	Upper
96	100		
61	165.3	132.2	198.2
98	61.7	51.2	76.8





#13
Acrolein
Concen: 294.230 ug/l
RT: 2.251 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 56 Resp: 16599

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.5	83.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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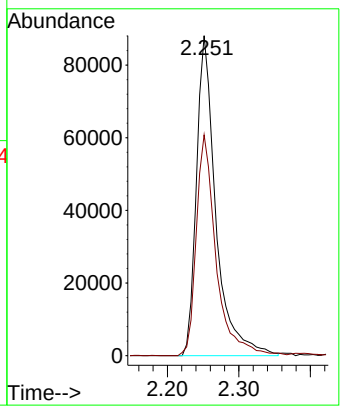
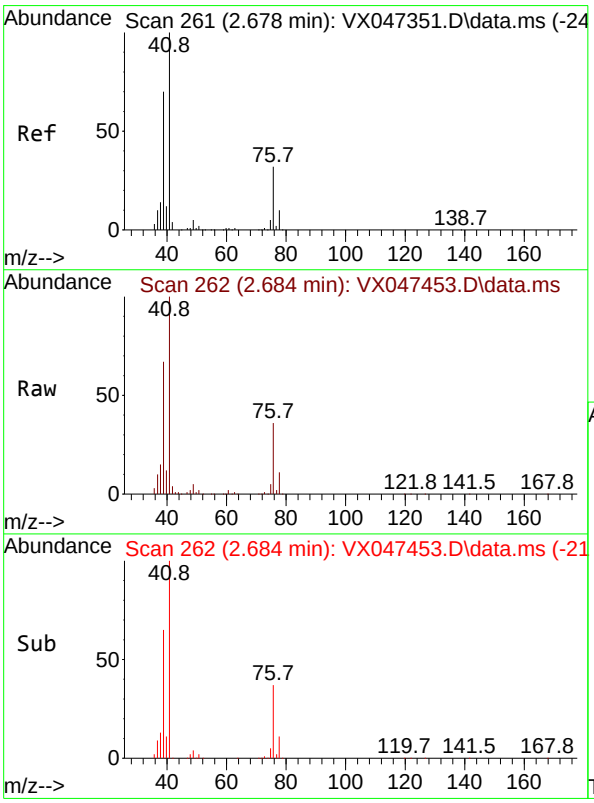
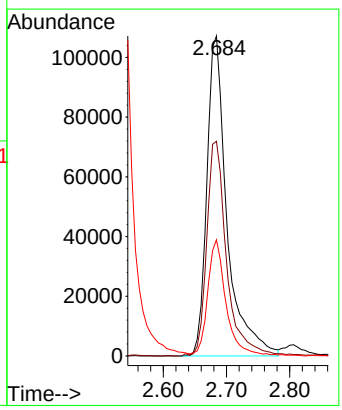


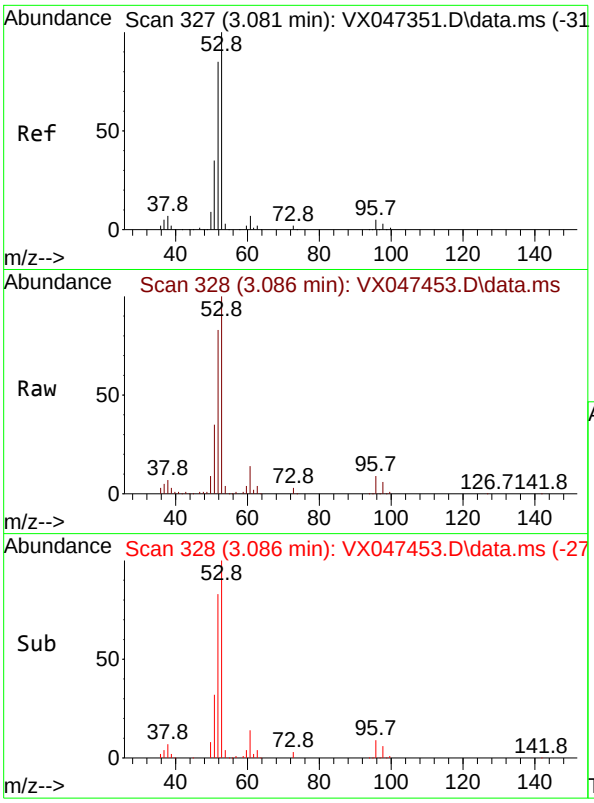


#14
Allyl chloride
Concen: 49.697 ug/l
RT: 2.684 min Scan# 262
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 41 Resp: 238562

Ion	Ratio	Lower	Upper
41	100		
39	66.1	54.6	81.8
76	33.2	27.6	41.4

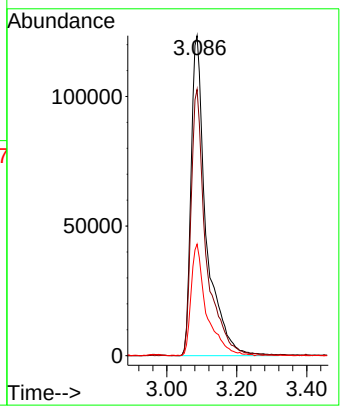




#15
Acrylonitrile
Concen: 287.522 ug/l
RT: 3.086 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 53 Resp: 37131

Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.8	98.6
51	35.5	28.2	42.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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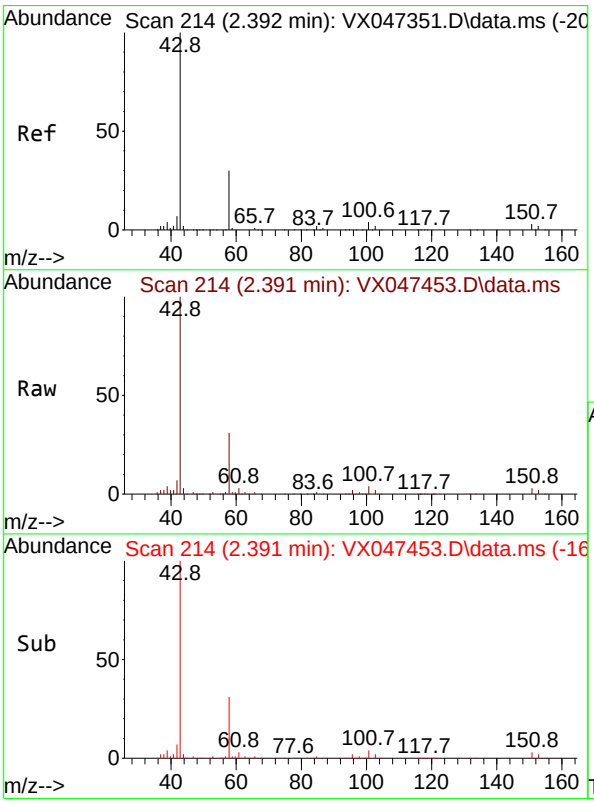
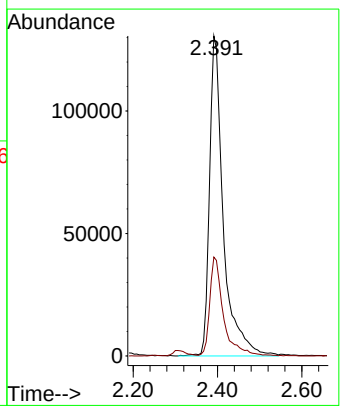
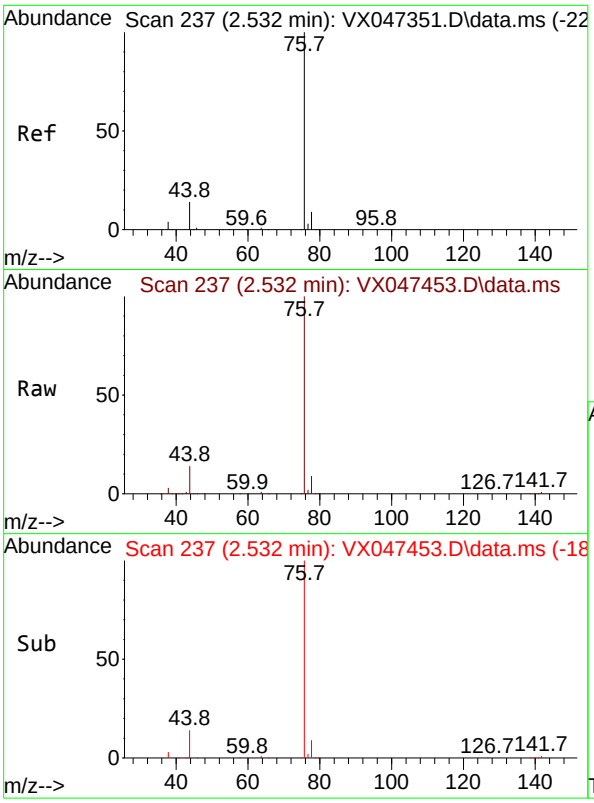


#16
Acetone
Concen: 258.028 ug/l
RT: 2.391 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 43 Resp: 297957

Ion	Ratio	Lower	Upper
43	100		
58	30.8	24.8	37.2





#17
Carbon Disulfide
Concen: 42.091 ug/l
RT: 2.532 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 76 Resp: 35104

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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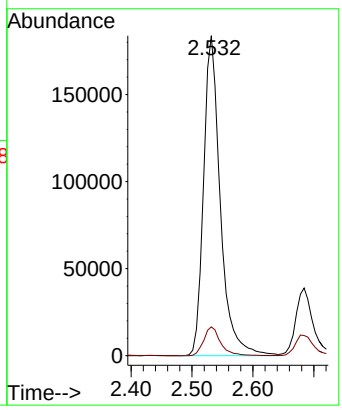
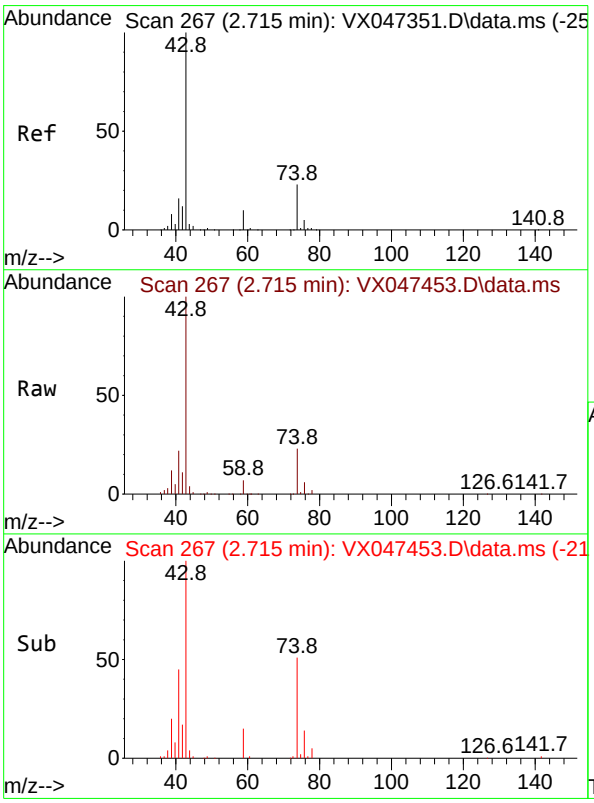
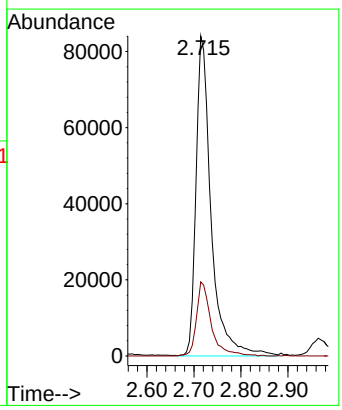


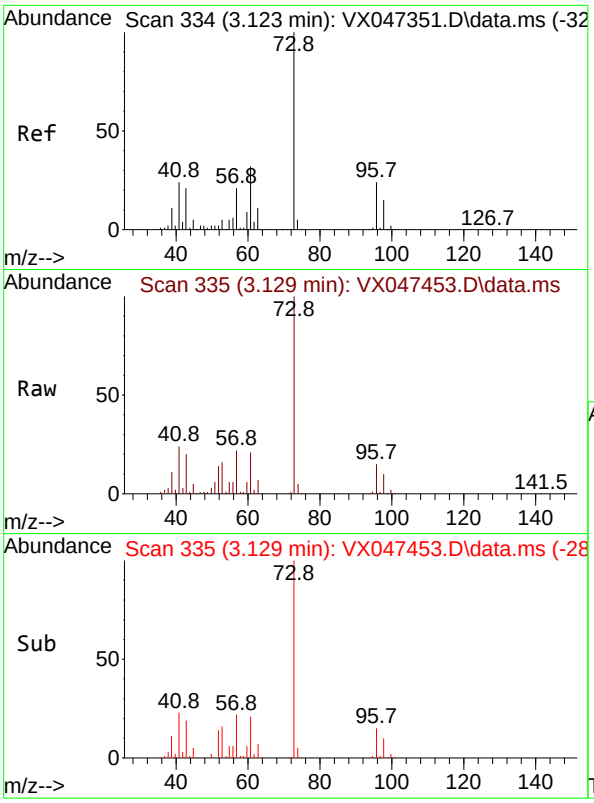


#18
Methyl Acetate
Concen: 63.067 ug/l
RT: 2.715 min Scan# 267
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 43 Resp: 188724

Ion	Ratio	Lower	Upper
43	100		
74	22.6	18.4	27.6

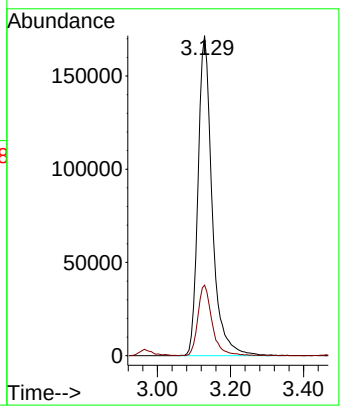




#19
Methyl tert-butyl Ether
Concen: 54.755 ug/l
RT: 3.129 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 73 Resp: 46038

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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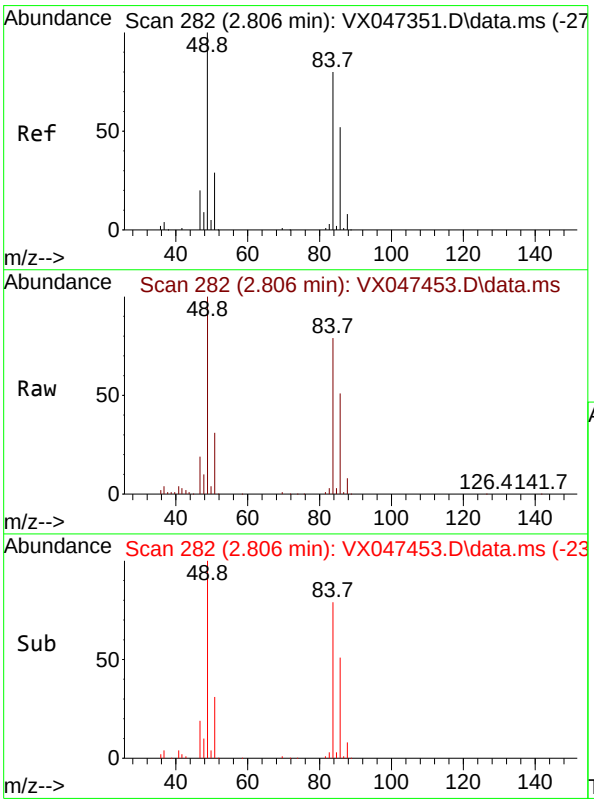
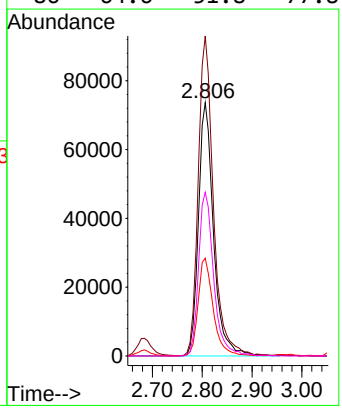
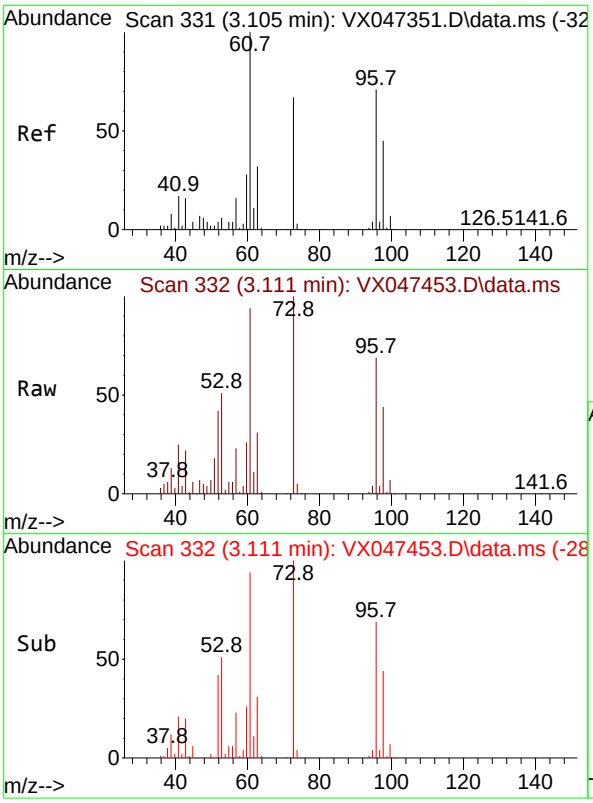


#20
Methylene Chloride
Concen: 50.626 ug/l
RT: 2.806 min Scan# 282
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 84 Resp: 154803

Ion	Ratio	Lower	Upper
84	100		
49	126.2	100.1	150.1
51	38.5	29.5	44.3
86	64.6	51.8	77.8

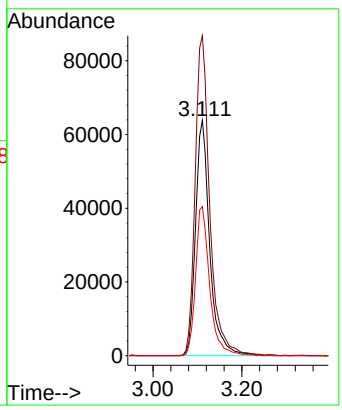




#21
trans-1,2-Dichloroethene
Concen: 48.285 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 96 Resp: 14163

Ion	Ratio	Lower	Upper
96	100		
61	136.0	112.6	169.0
98	63.4	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
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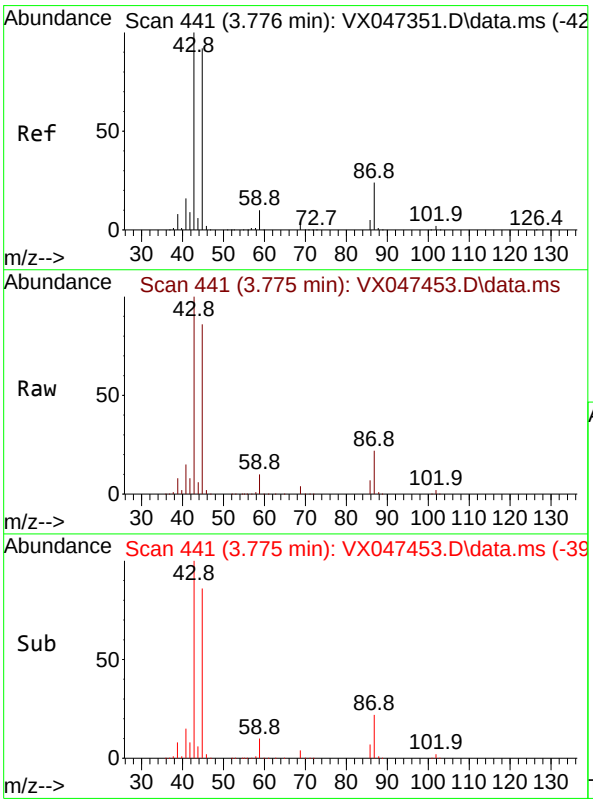
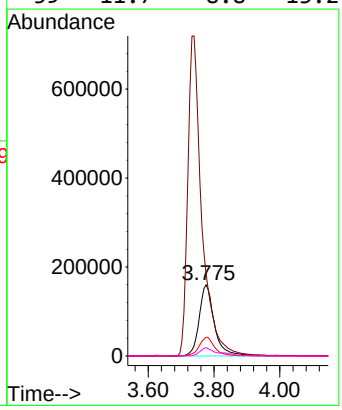
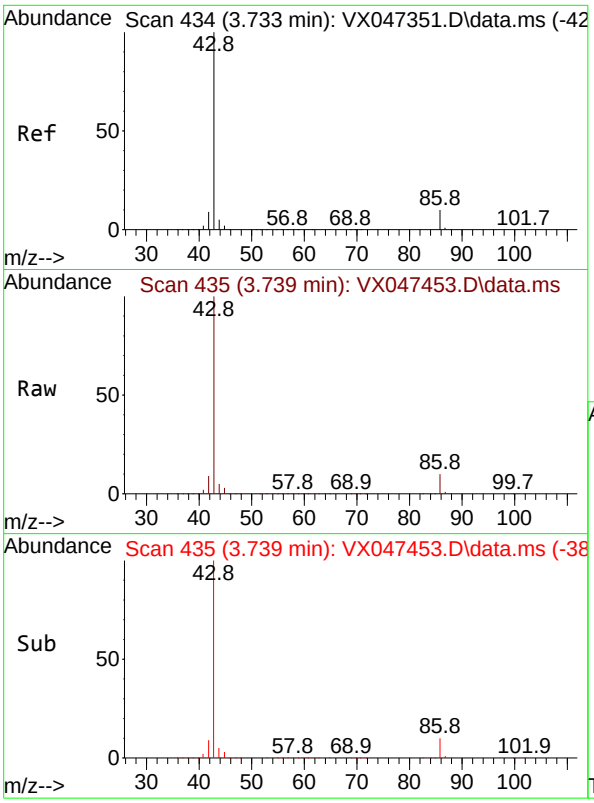


#22
Diisopropyl ether
Concen: 54.195 ug/l
RT: 3.775 min Scan# 441
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 45 Resp: 514249

Ion	Ratio	Lower	Upper
45	100		
43	115.6	86.8	130.2
87	26.0	20.4	30.6
59	11.7	8.8	13.2





#23
Vinyl Acetate
Concen: 275.048 ug/l
RT: 3.739 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 43 Resp: 213917

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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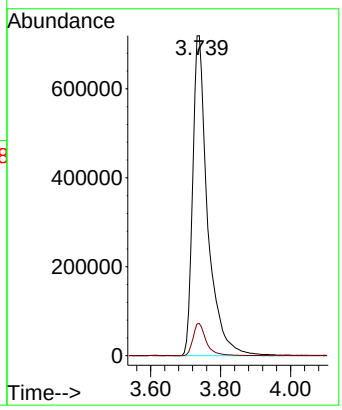
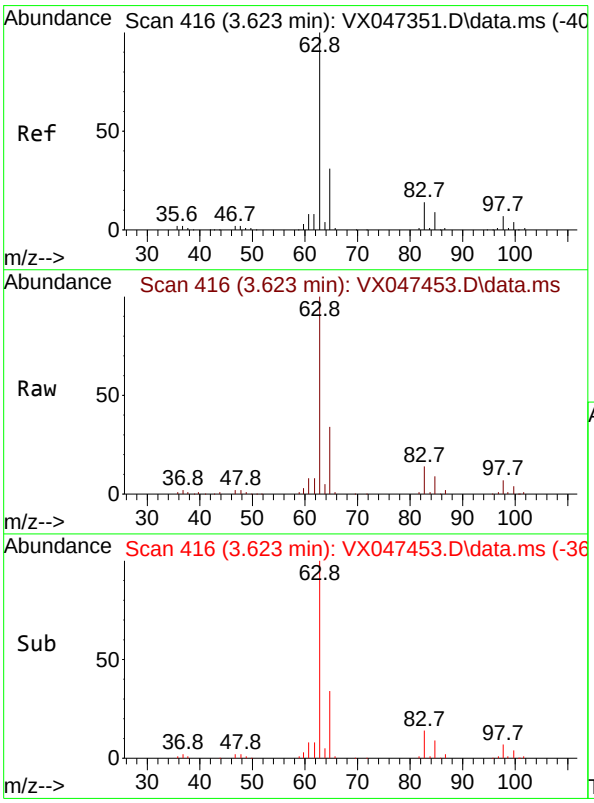
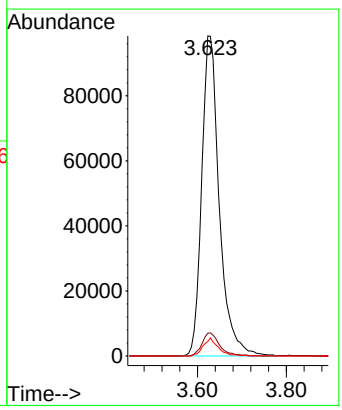


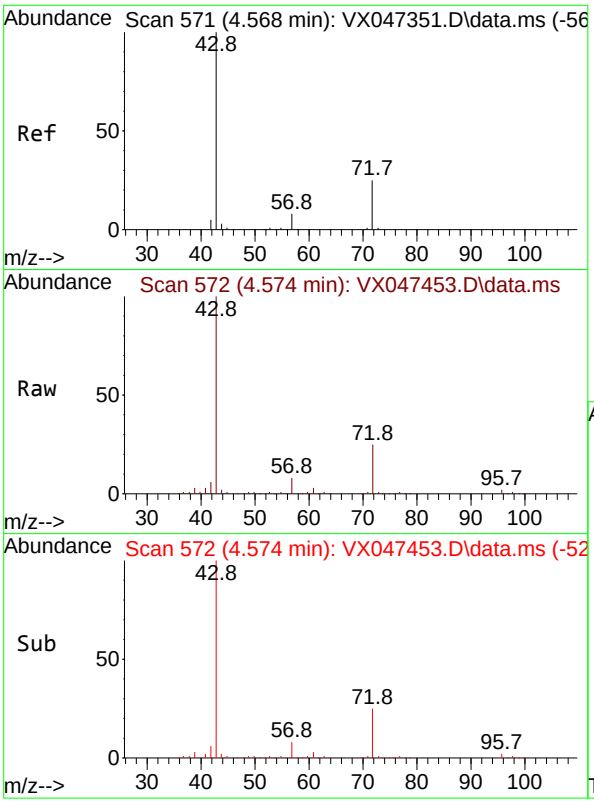


#24
1,1-Dichloroethane
Concen: 50.593 ug/l
RT: 3.623 min Scan# 416
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 63 Resp: 271347

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.3	9.9
100	4.6	2.1	6.3

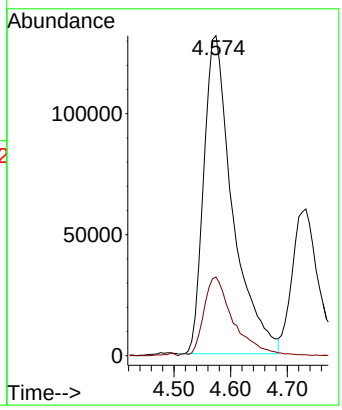




#25
2-Butanone
Concen: 307.630 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 43 Resp: 46524

Ion	Ratio	Lower	Upper
43	100		
72	24.5	19.8	29.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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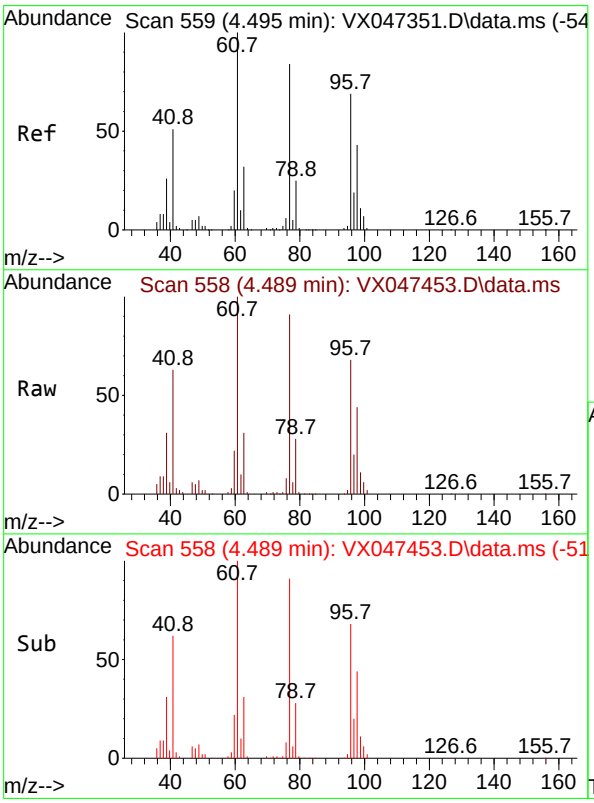
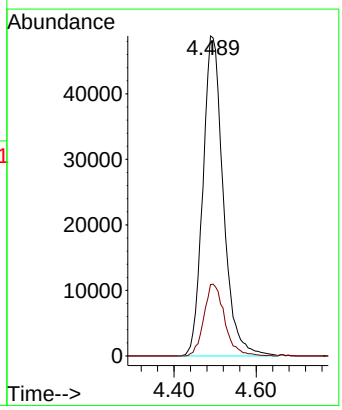
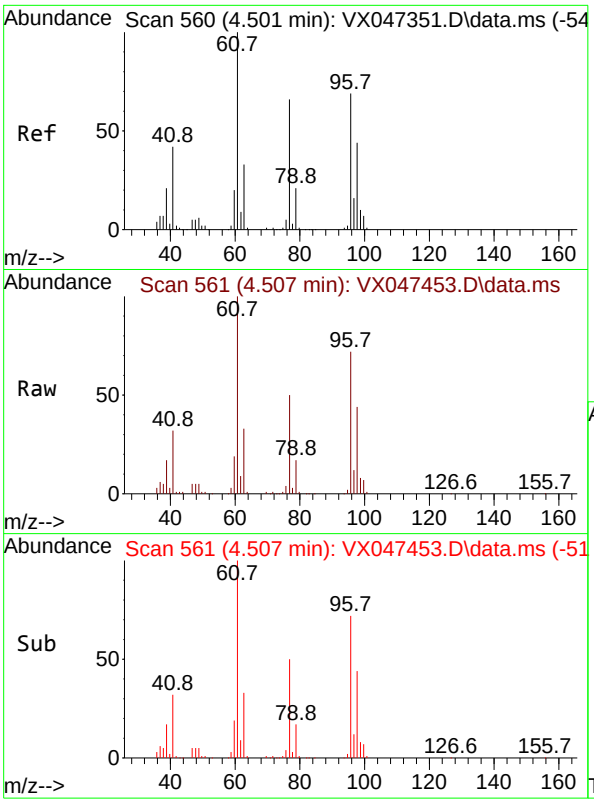


#26
2,2-Dichloropropane
Concen: 41.513 ug/l
RT: 4.489 min Scan# 558
Delta R.T. -0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 77 Resp: 168046

Ion	Ratio	Lower	Upper
77	100		
97	22.9	11.4	34.1

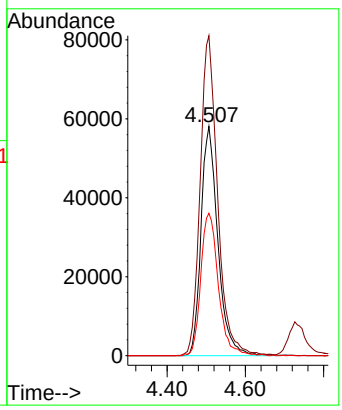




#27
cis-1,2-Dichloroethene
Concen: 50.756 ug/l
RT: 4.507 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 96 Resp: 17341

Ion	Ratio	Lower	Upper
96	100		
61	144.6	0.0	296.6
98	64.8	0.0	130.4



Instrument :
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ClientSampleId :
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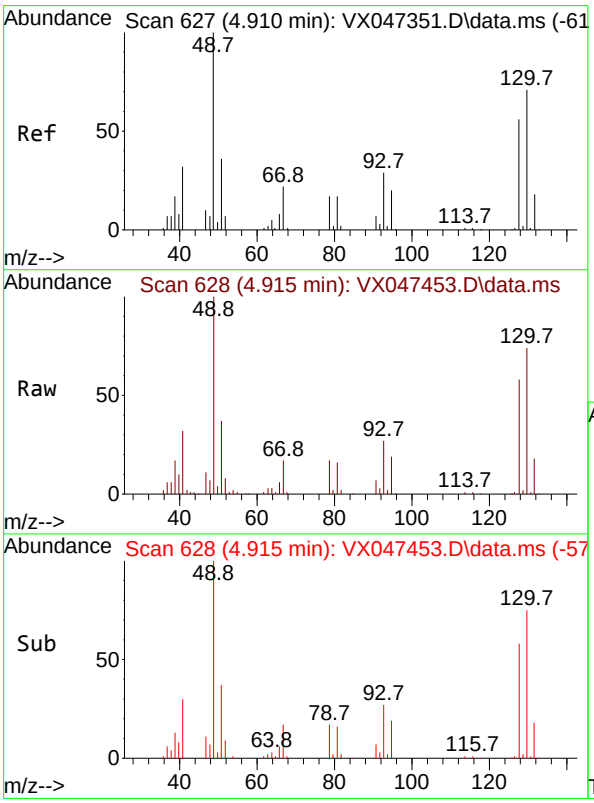
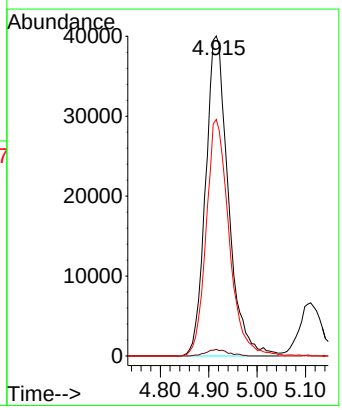
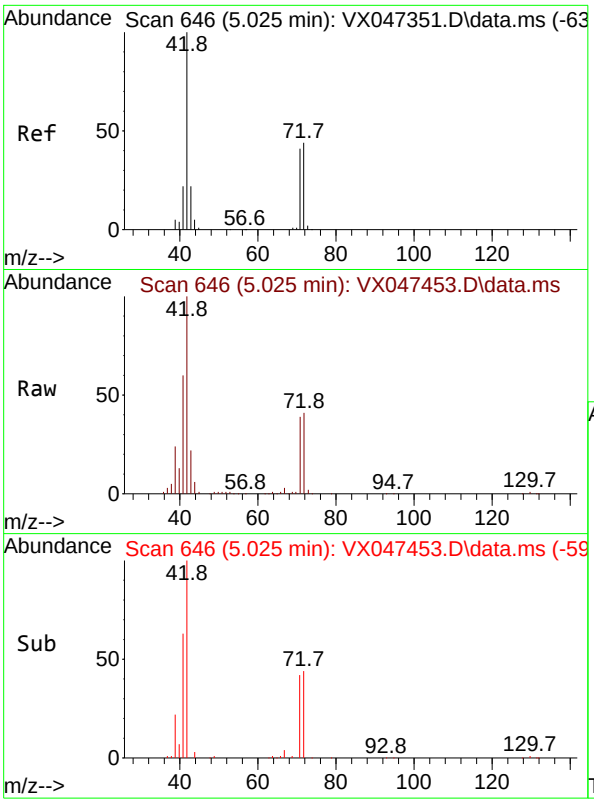


#28
Bromochloromethane
Concen: 58.641 ug/l
RT: 4.915 min Scan# 628
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 49 Resp: 130876

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	74.3	59.8	89.6





#29
Tetrahydrofuran
Concen: 296.359 ug/l
RT: 5.025 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 42 Resp: 28968

Ion	Ratio	Lower	Upper
42	100		
72	43.5	34.6	51.8
71	41.0	32.6	49.0

Instrument :
MSVOA_X
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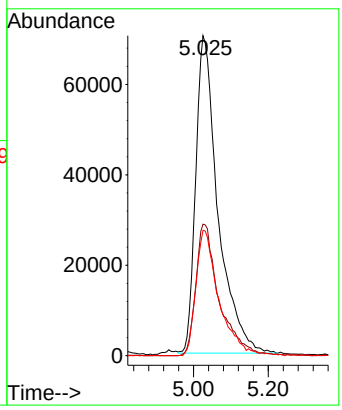
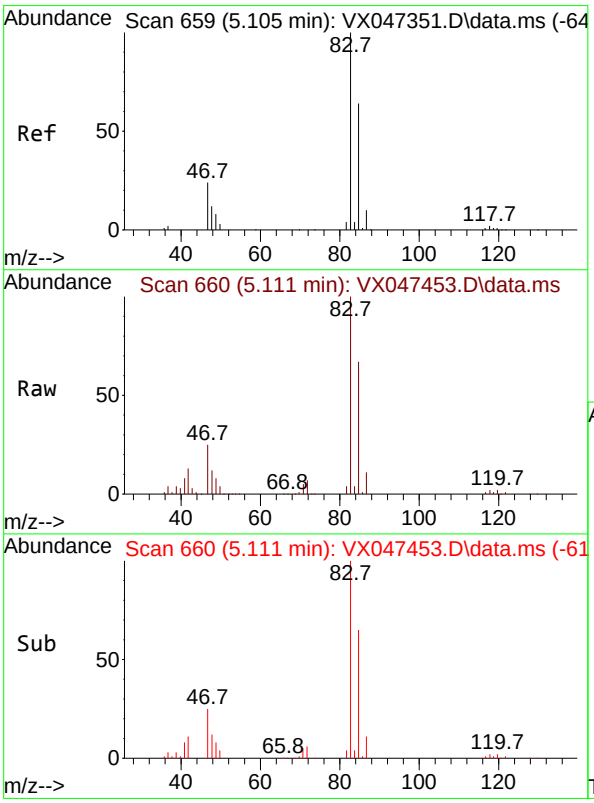
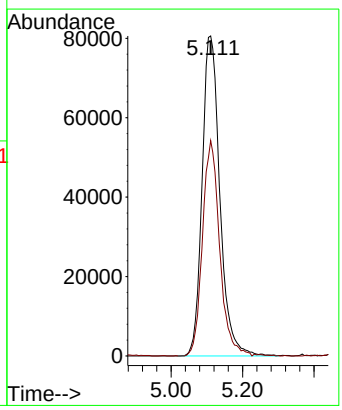


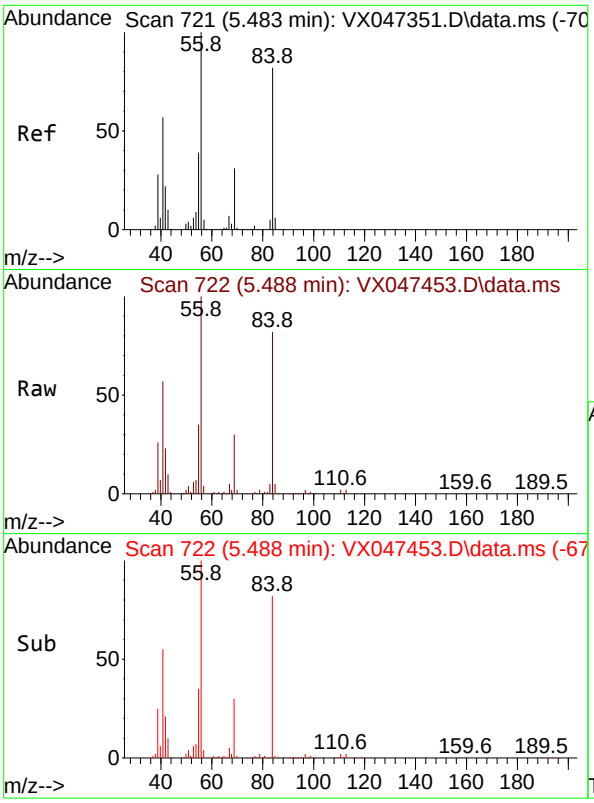


#30
Chloroform
Concen: 50.776 ug/l
RT: 5.111 min Scan# 660
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 83 Resp: 277931

Ion	Ratio	Lower	Upper
83	100		
85	67.3	51.2	76.8

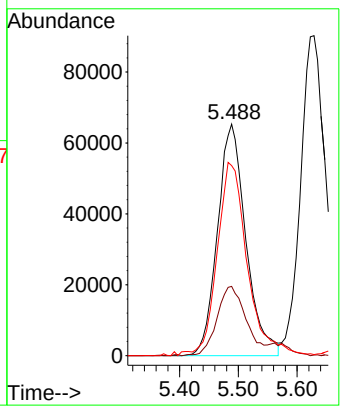




#31
Cyclohexane
Concen: 44.313 ug/l
RT: 5.488 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 56 Resp: 21908

Ion	Ratio	Lower	Upper
56	100		
69	29.5	24.3	36.5
84	82.1	65.3	97.9



Instrument :
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ClientSampleId :
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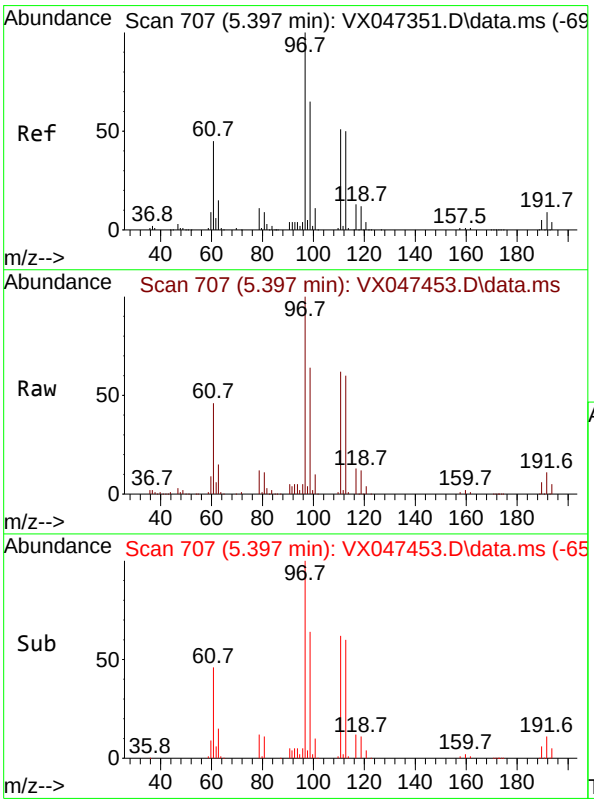
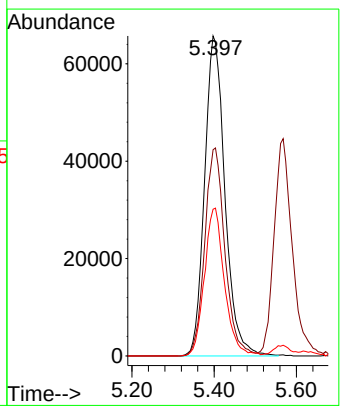
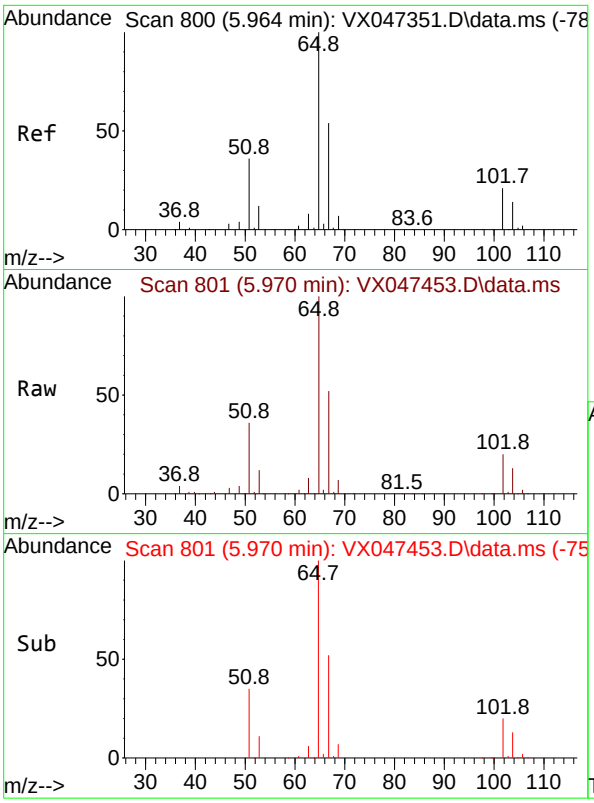


#32
1,1,1-Trichloroethane
Concen: 47.987 ug/l
RT: 5.397 min Scan# 707
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 97 Resp: 226085

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.0
61	45.6	35.7	53.5

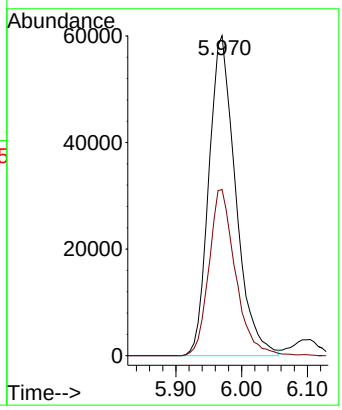




#33
1,2-Dichloroethane-d4
Concen: 55.283 ug/l
RT: 5.970 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 65 Resp: 16983

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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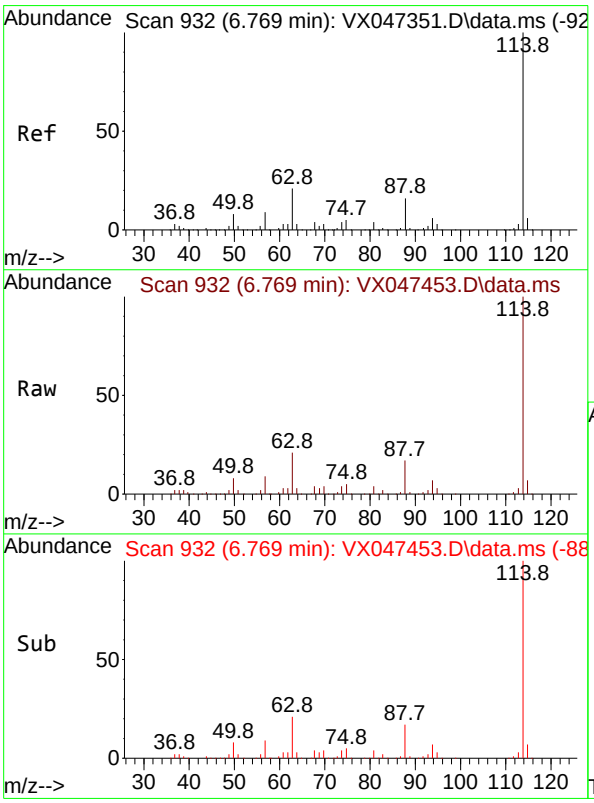
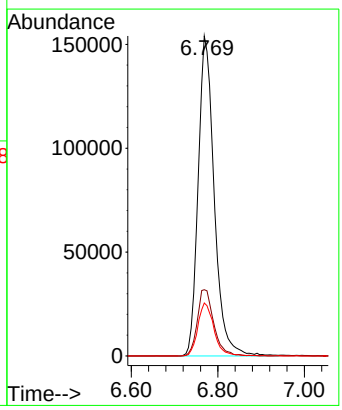
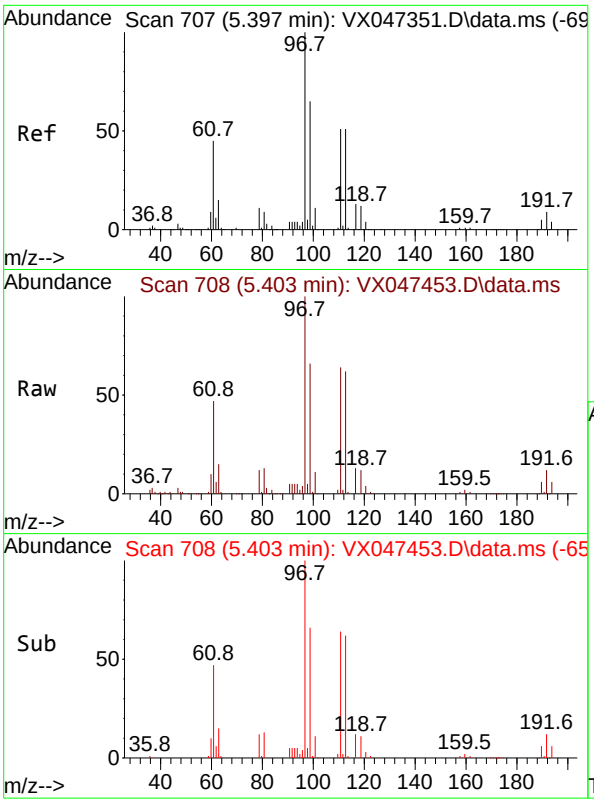


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:114 Resp: 397450

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	42.4
88	16.5	0.0	33.0

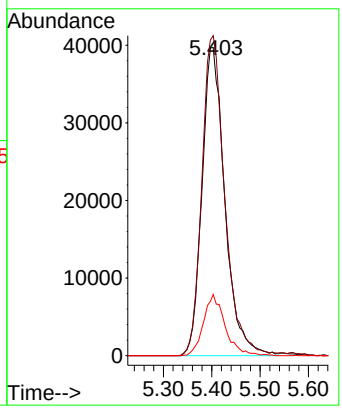




#35
Dibromofluoromethane
Concen: 50.761 ug/l
RT: 5.403 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:113 Resp: 13093

Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.4	122.2
192	18.8	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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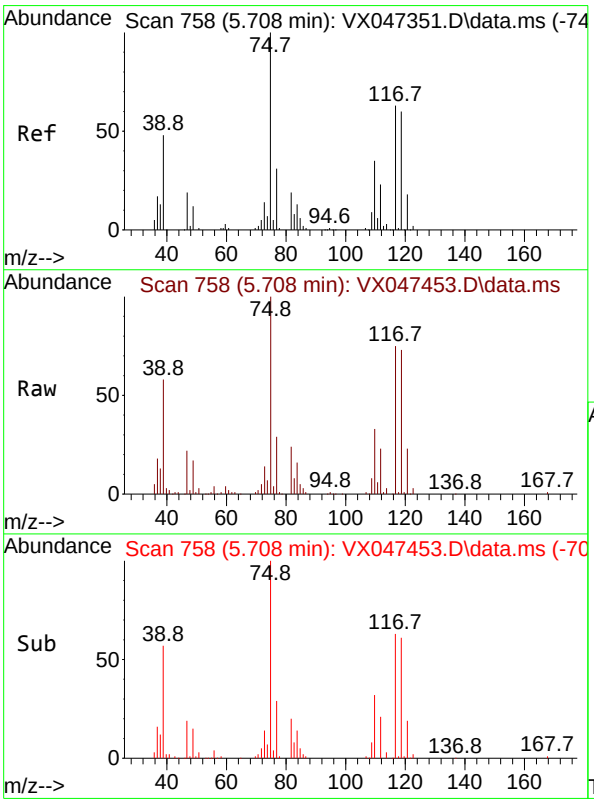
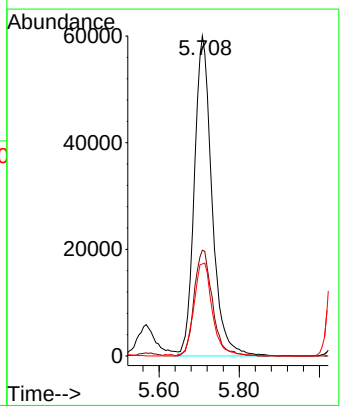
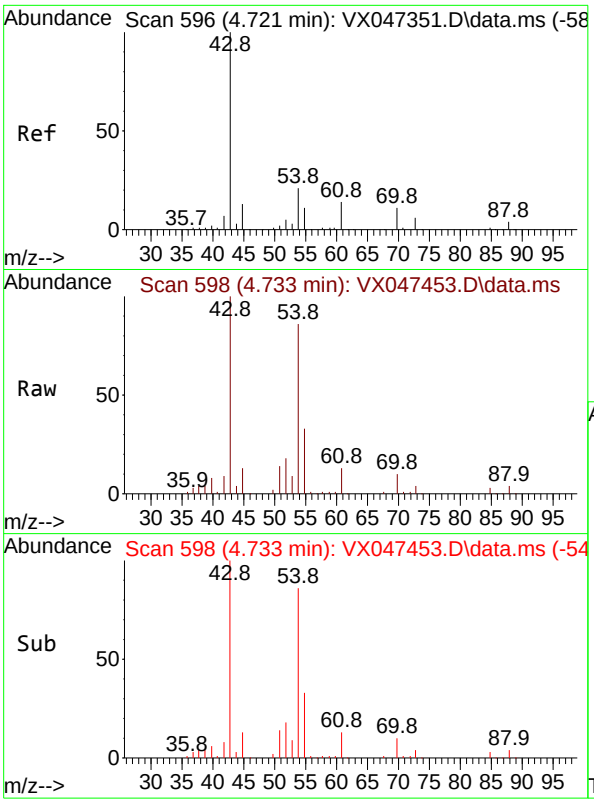


#36
1,1-Dichloropropene
Concen: 45.011 ug/l
RT: 5.708 min Scan# 758
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 75 Resp: 183283

Ion	Ratio	Lower	Upper
75	100		
110	34.2	17.4	52.2
77	30.4	24.4	36.6

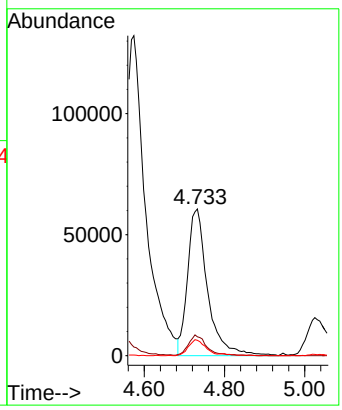




#37
Ethyl Acetate
Concen: 49.833 ug/l
RT: 4.733 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 43 Resp: 21065

Ion	Ratio	Lower	Upper
43	100		
61	12.4	9.4	14.2
70	9.1	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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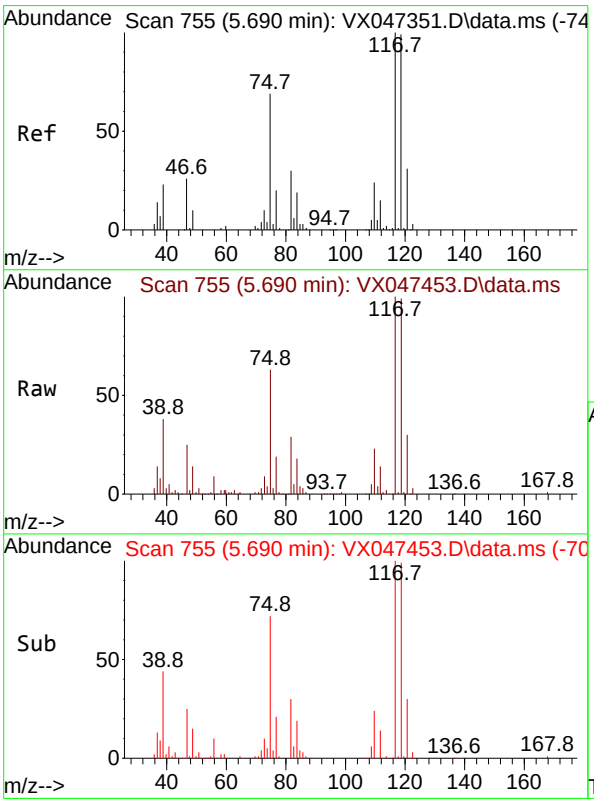
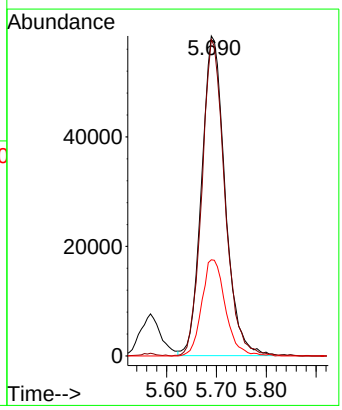
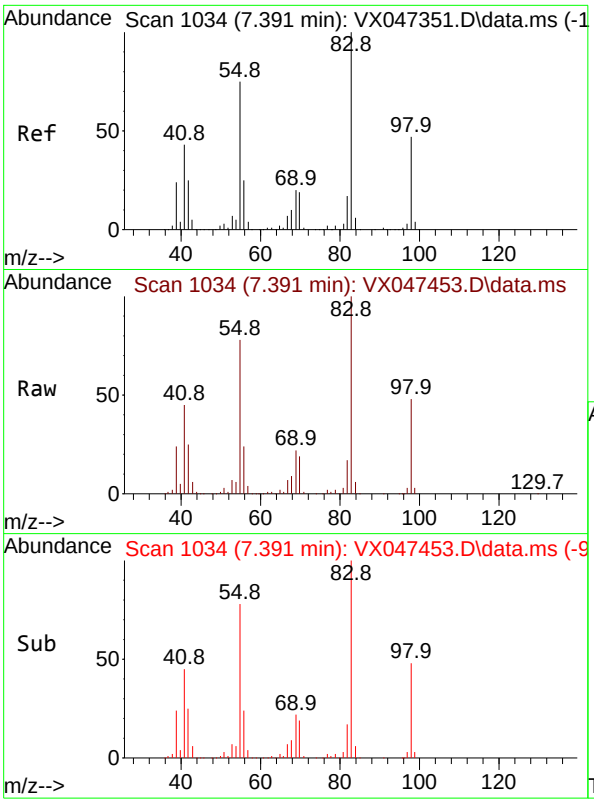


#38
Carbon Tetrachloride
Concen: 42.744 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:117 Resp: 190198

Ion	Ratio	Lower	Upper
117	100		
119	98.8	78.5	117.7
121	30.1	24.7	37.1

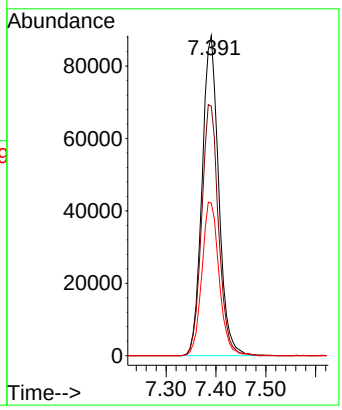




#39
Methylcyclohexane
Concen: 40.357 ug/l
RT: 7.391 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 83 Resp: 20497

Ion	Ratio	Lower	Upper
83	100		
55	78.0	60.0	90.0
98	47.7	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
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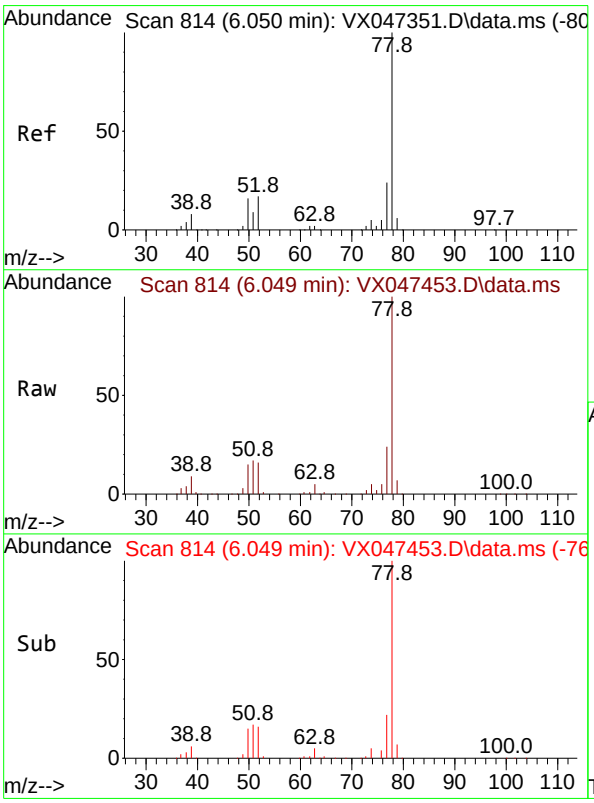
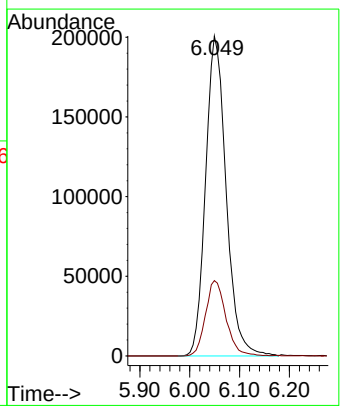
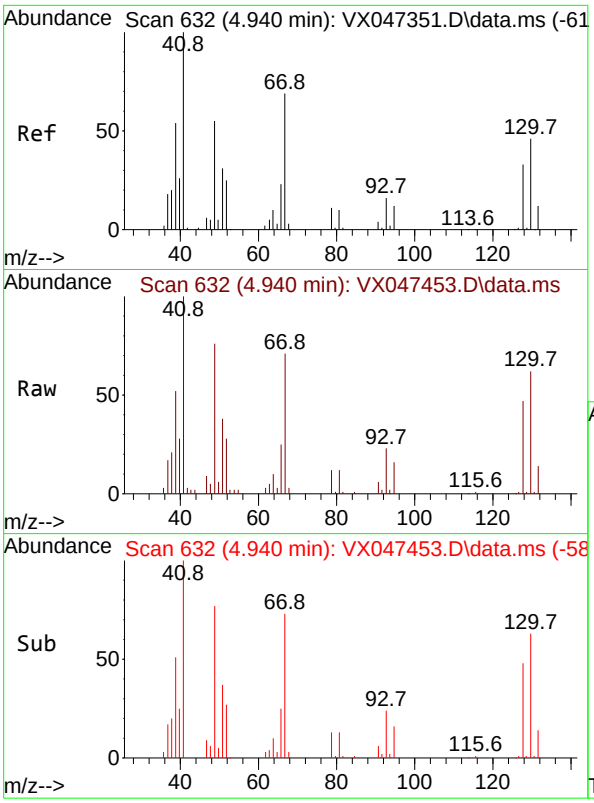


#40
Benzene
Concen: 47.193 ug/l
RT: 6.049 min Scan# 814
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 78 Resp: 575192

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4

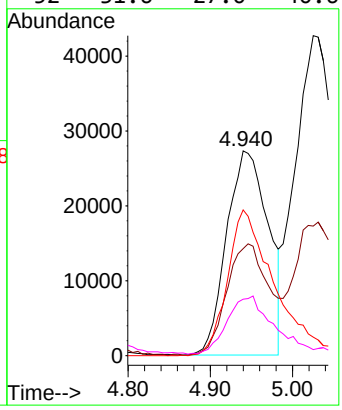




#41
Methacrylonitrile
Concen: 53.767 ug/l
RT: 4.940 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 41 Resp: 9584

Ion	Ratio	Lower	Upper
41	100		
39	57.0	45.4	68.2
67	81.4	64.0	96.0
52	31.6	27.0	40.6



Instrument :
MSVOA_X
ClientSampleId :
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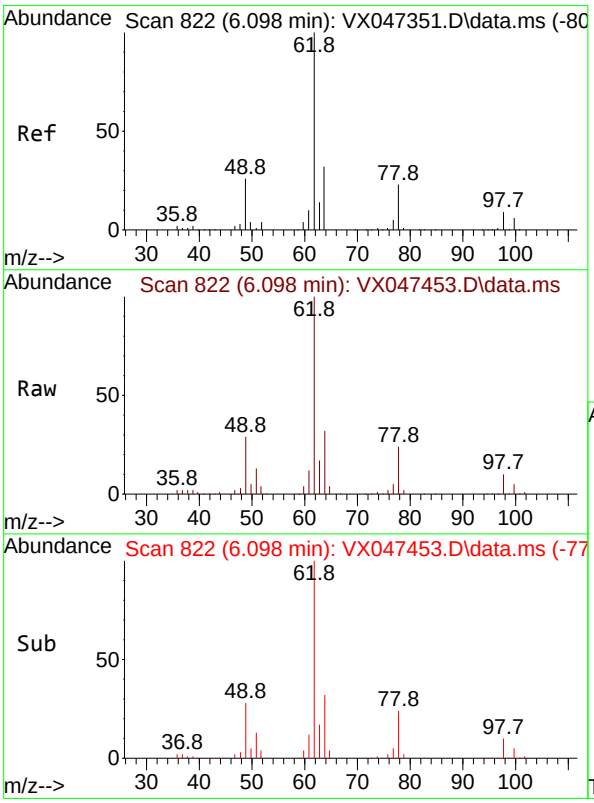
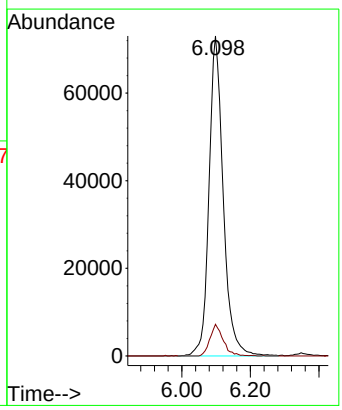
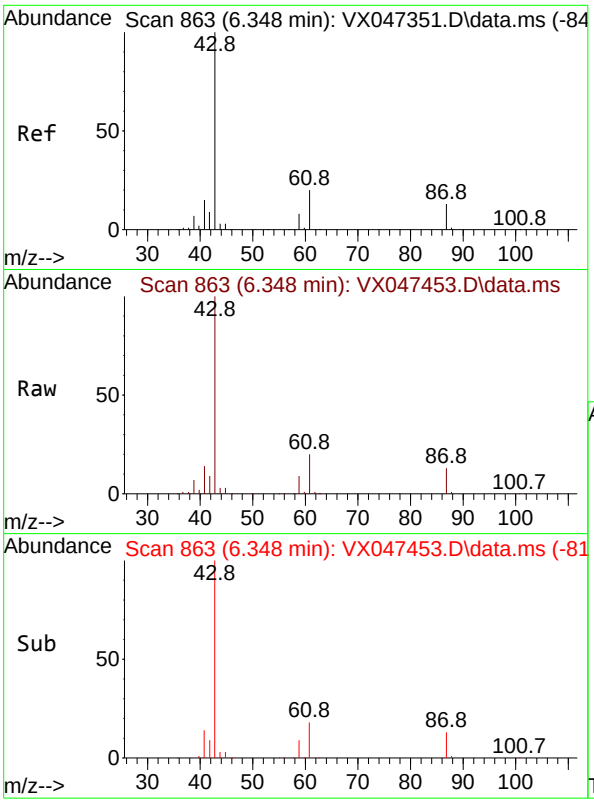


#42
1,2-Dichloroethane
Concen: 48.905 ug/l
RT: 6.098 min Scan# 822
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 62 Resp: 211130

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.0

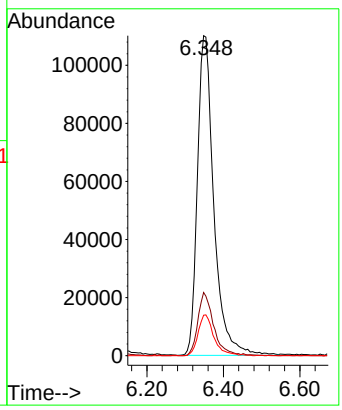




#43
Isopropyl Acetate
Concen: 54.264 ug/l
RT: 6.348 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 43 Resp: 32953

Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.4	23.0
87	12.3	10.2	15.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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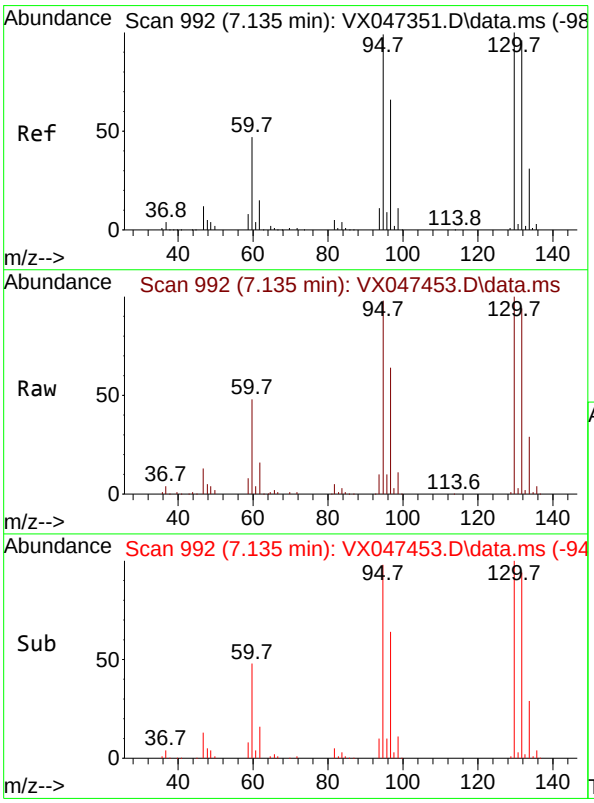
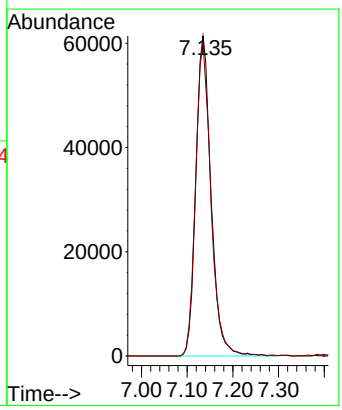
Supervised By :Mahesh Dadoda 08/22/2025

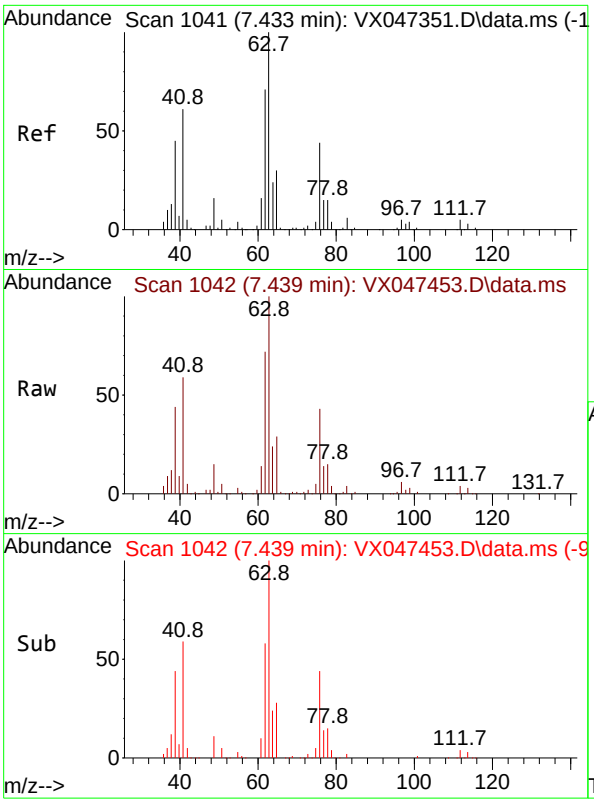


#44
Trichloroethene
Concen: 45.468 ug/l
RT: 7.135 min Scan# 992
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:130 Resp: 141897

Ion	Ratio	Lower	Upper
130	100		
95	97.9	0.0	198.6

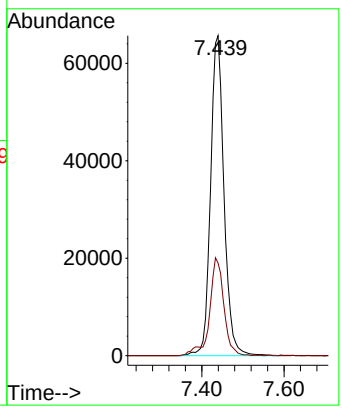




#45
1,2-Dichloropropane
Concen: 48.832 ug/l
RT: 7.439 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 63 Resp: 14910

Ion	Ratio	Lower	Upper
63	100		
65	29.0	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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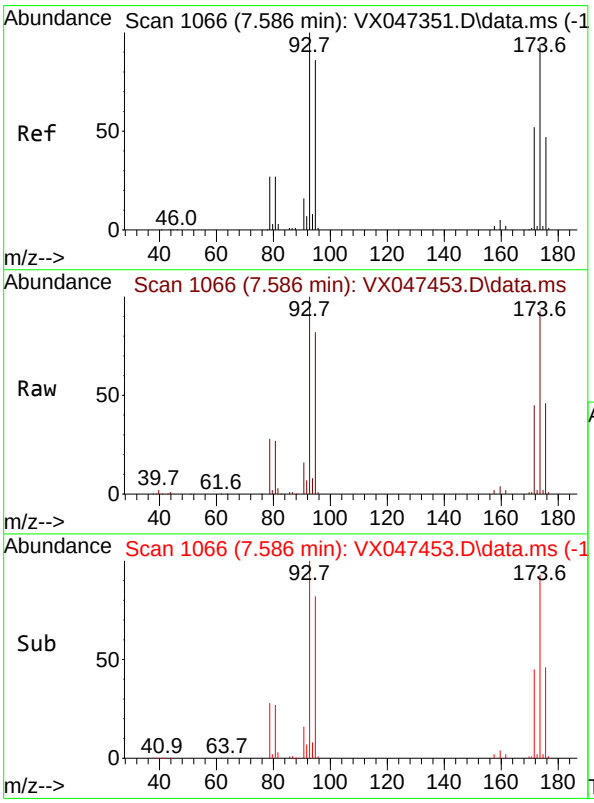
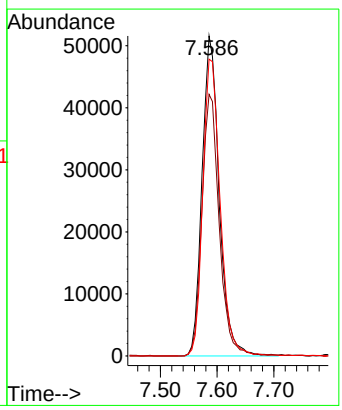
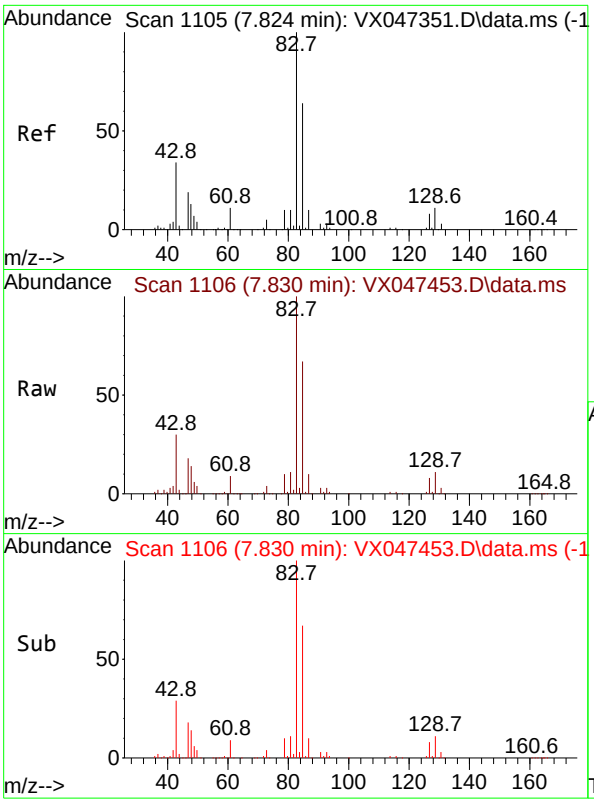


#46
Dibromomethane
Concen: 48.823 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 93 Resp: 108227

Ion	Ratio	Lower	Upper
93	100		
95	82.3	68.0	102.0
174	94.3	75.8	113.6

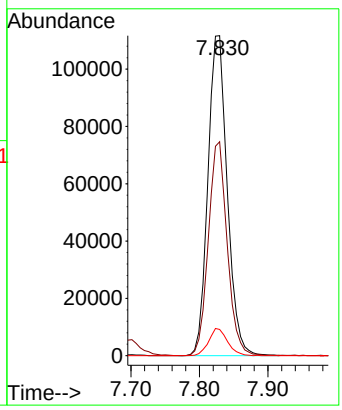




#47
Bromodichloromethane
Concen: 47.732 ug/l
RT: 7.830 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 83 Resp: 21935

Ion	Ratio	Lower	Upper
83	100		
85	66.8	51.0	76.6
127	8.2	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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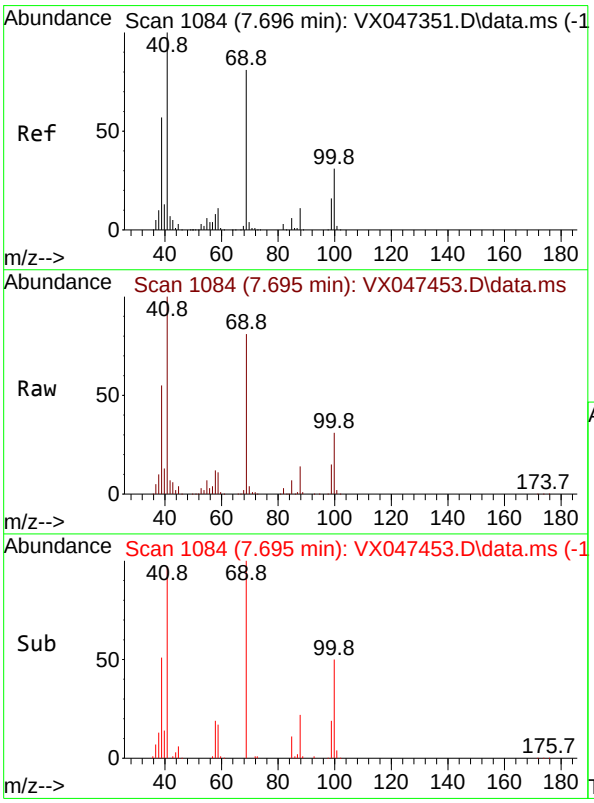
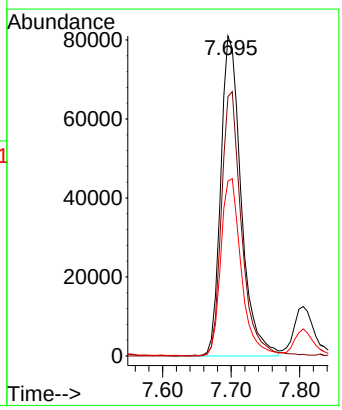
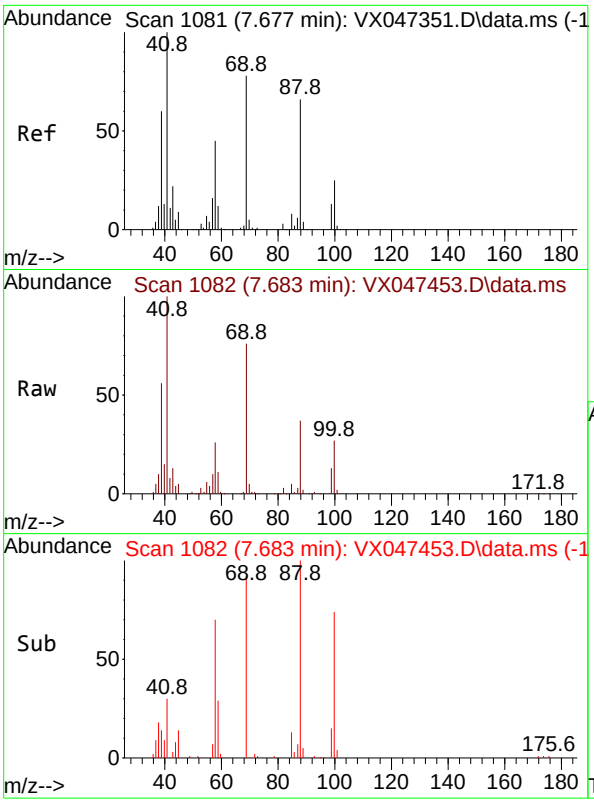


#48
Methyl methacrylate
Concen: 53.107 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 41 Resp: 167405

Ion	Ratio	Lower	Upper
41	100		
69	81.2	65.0	97.4
39	55.5	45.7	68.5





#49
1,4-Dioxane
Concen: 1229.562 ug/l
RT: 7.683 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 88 Resp: 3767

Ion	Ratio	Lower	Upper
88	100		
43	39.1	32.4	48.6
58	74.2	56.9	85.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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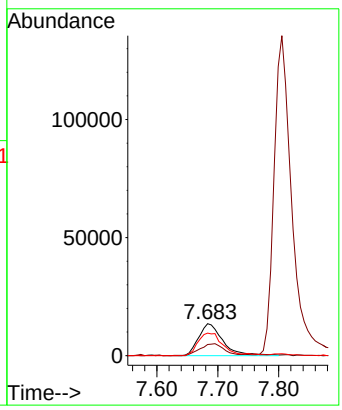
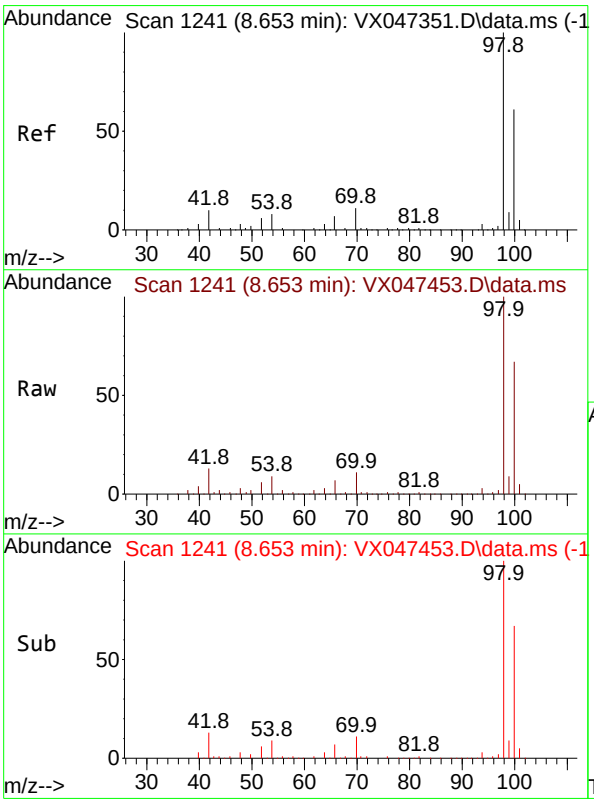
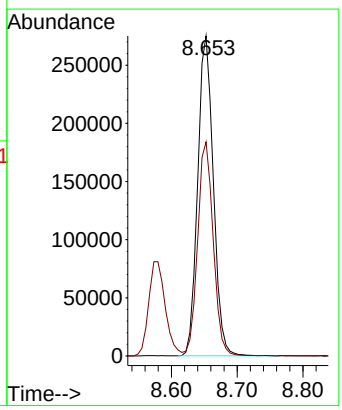


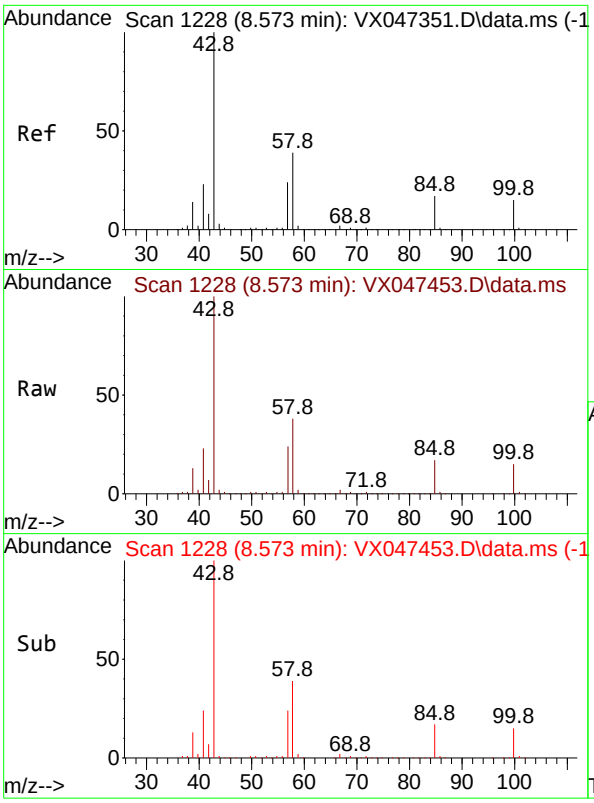


#50
Toluene-d8
Concen: 49.137 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 98 Resp: 453029

Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.9	80.9

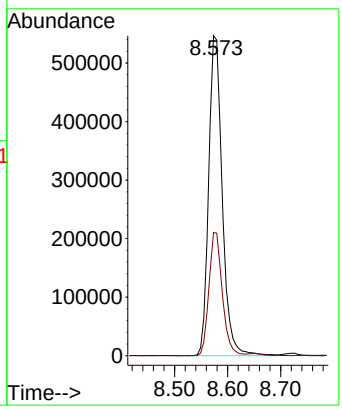




#51
4-Methyl-2-Pentanone
Concen: 278.187 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 43 Resp: 97217

Ion	Ratio	Lower	Upper
43	100		
58	38.0	31.2	46.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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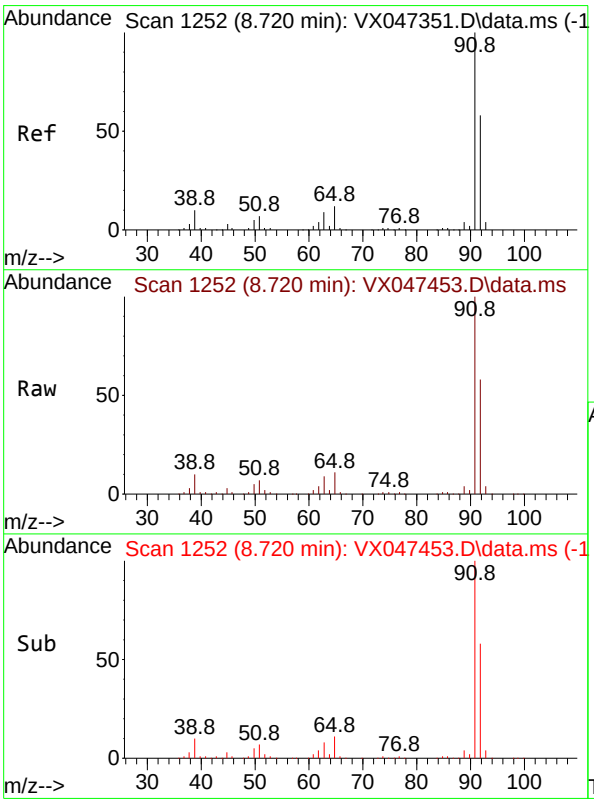
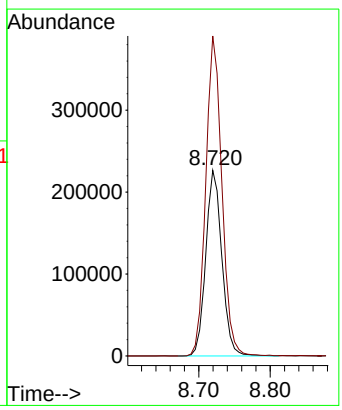
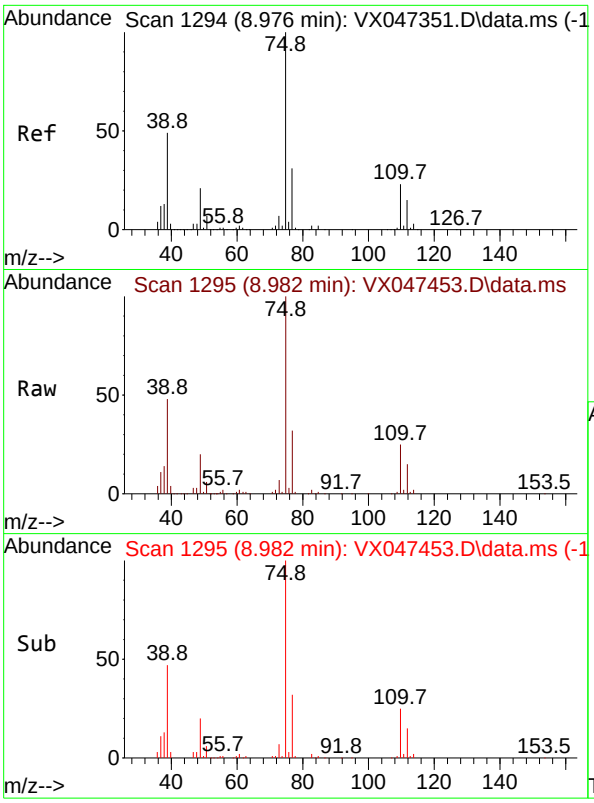


#52
Toluene
Concen: 47.090 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 92 Resp: 354651

Ion	Ratio	Lower	Upper
92	100		
91	171.9	136.3	204.5

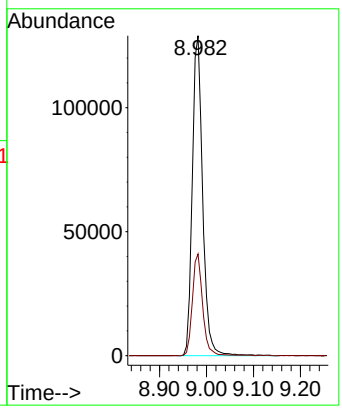




#53
t-1,3-Dichloropropene
Concen: 49.509 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 75 Resp: 19856

Ion	Ratio	Lower	Upper
75	100		
77	31.8	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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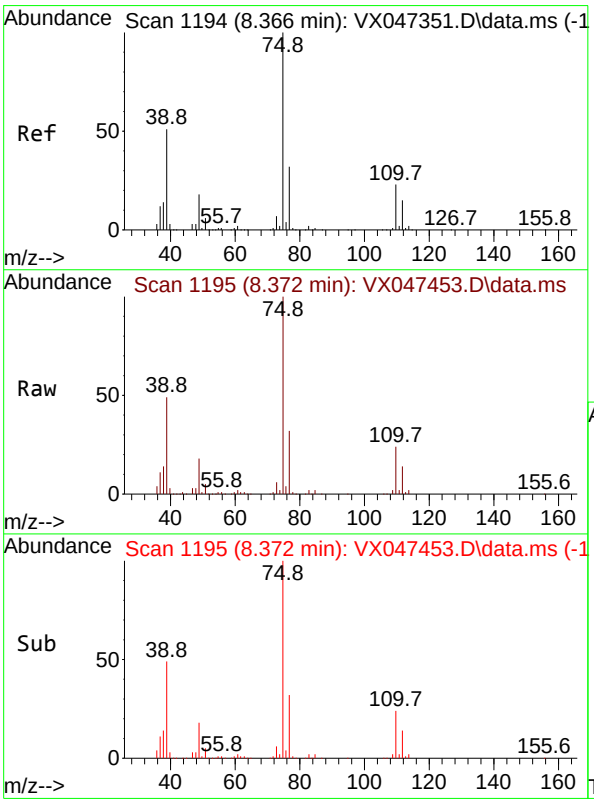
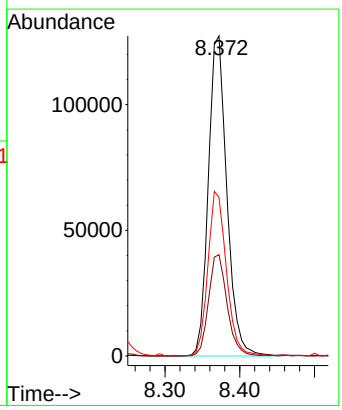
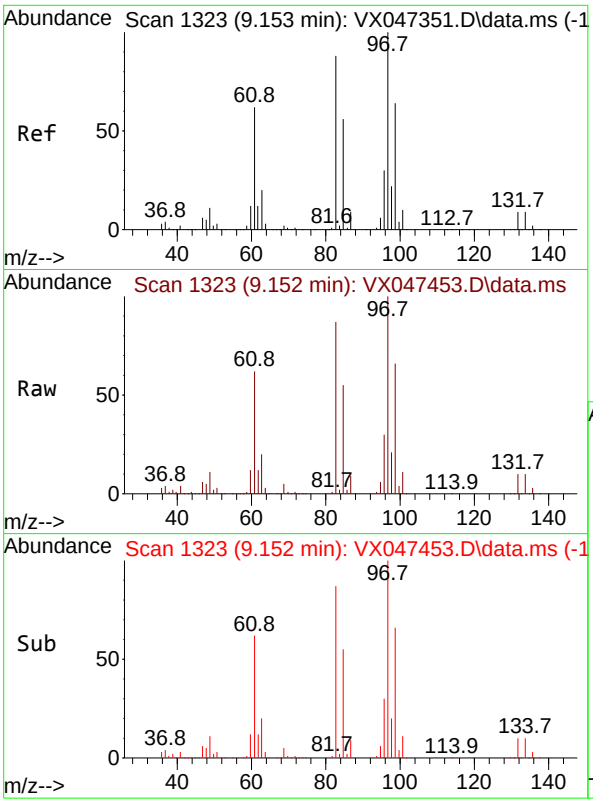


#54
cis-1,3-Dichloropropene
Concen: 48.331 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 75 Resp: 219408

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4
39	48.7	40.9	61.3

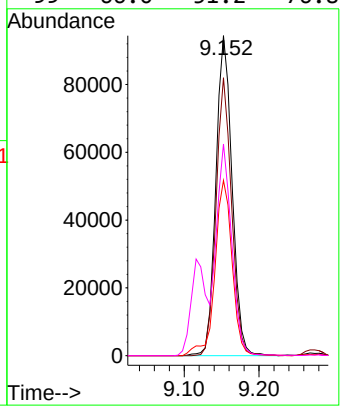




#55
1,1,2-Trichloroethane
Concen: 49.854 ug/l
RT: 9.152 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 97 Resp: 14255

Ion	Ratio	Lower	Upper
97	100		
83	86.8	70.6	106.0
85	54.8	44.7	67.1
99	66.0	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
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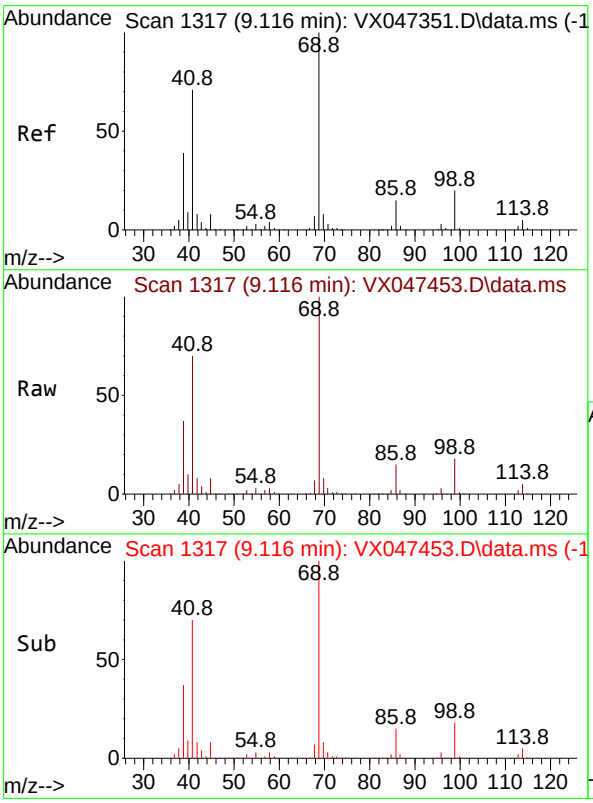
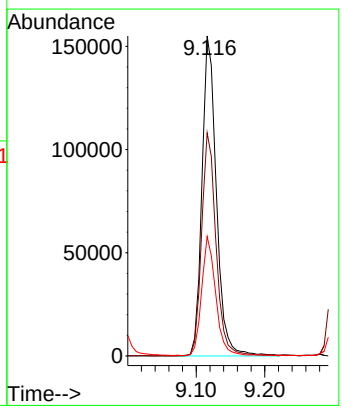
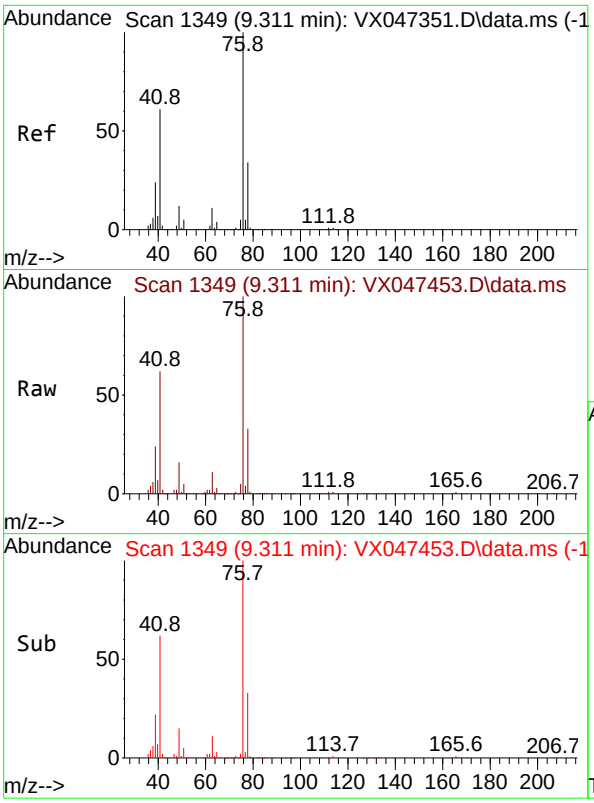


#56
Ethyl methacrylate
Concen: 53.861 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 69 Resp: 227071

Ion	Ratio	Lower	Upper
69	100		
41	69.4	55.3	82.9
39	36.2	30.2	45.2





#57
1,3-Dichloropropane
Concen: 49.771 ug/l
RT: 9.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 76 Resp: 24251

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.2	39.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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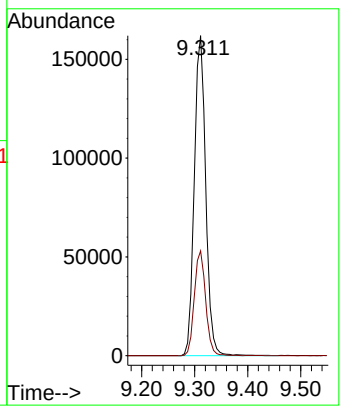
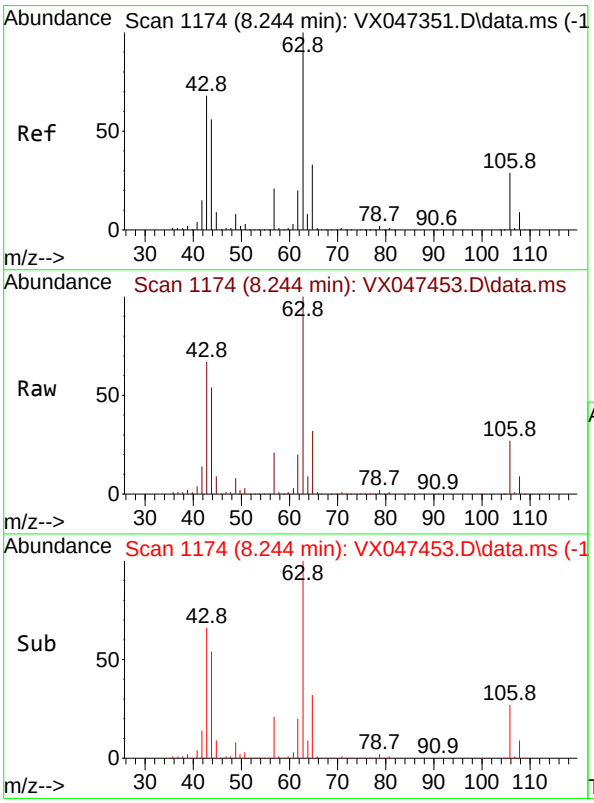
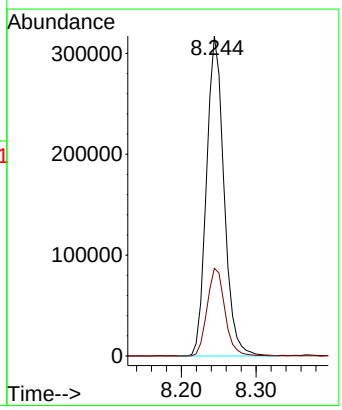


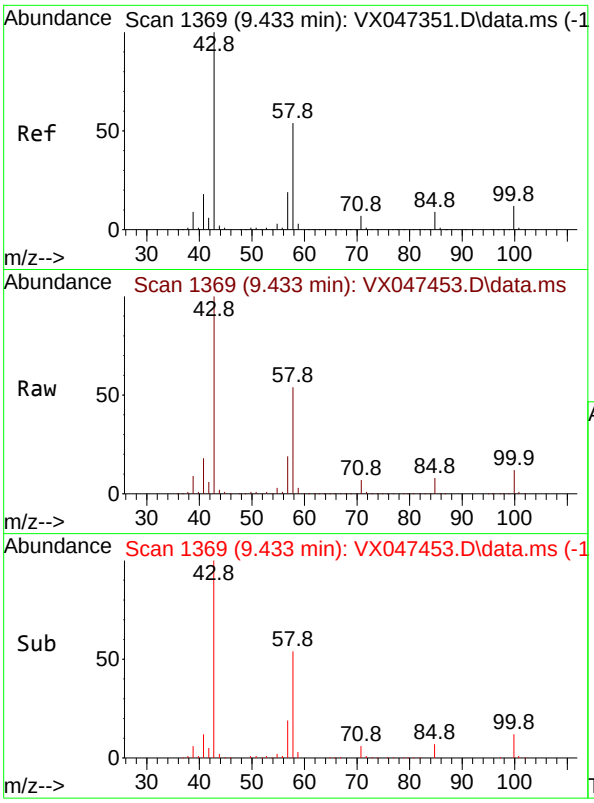


#58
2-Chloroethyl Vinyl ether
Concen: 256.814 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 63 Resp: 517470

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.8	34.2





#59
2-Hexanone
Concen: 274.974 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 43 Resp: 66470

Ion	Ratio	Lower	Upper
43	100		
58	53.2	26.9	80.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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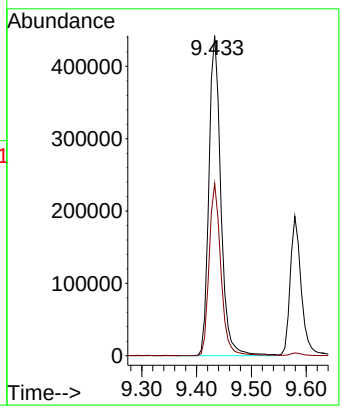
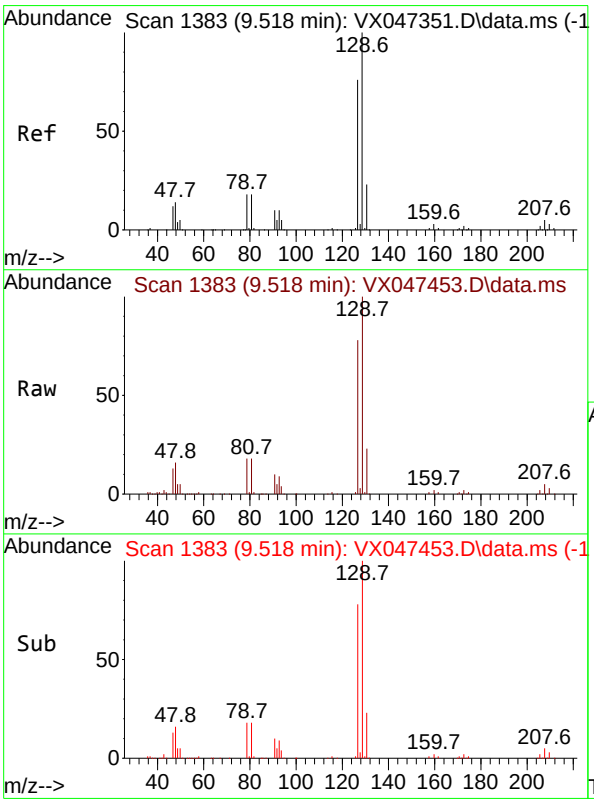
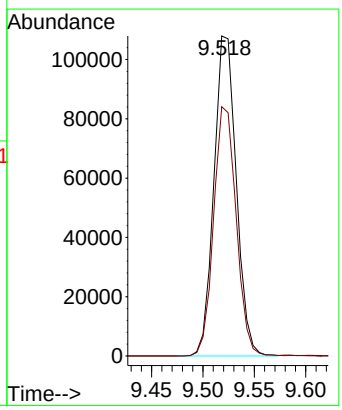


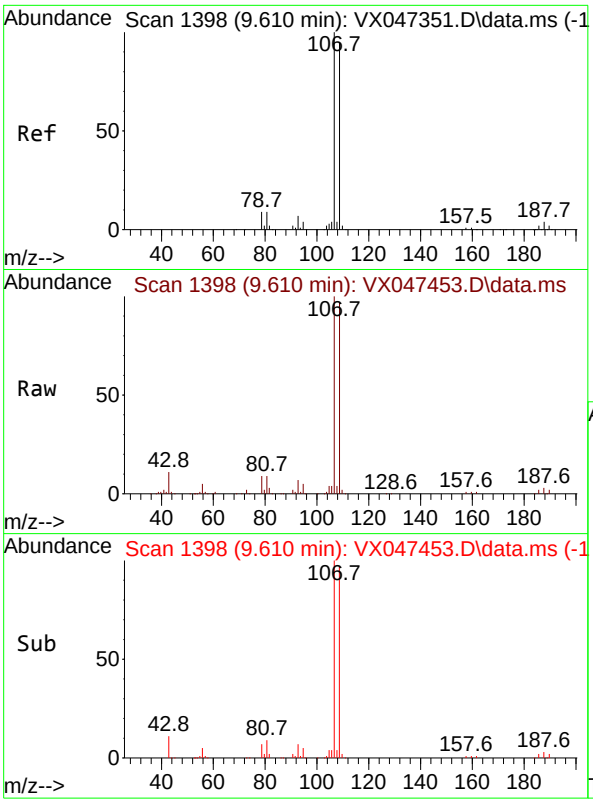


#60
Dibromochloromethane
Concen: 47.975 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:129 Resp: 163031

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.9	116.6

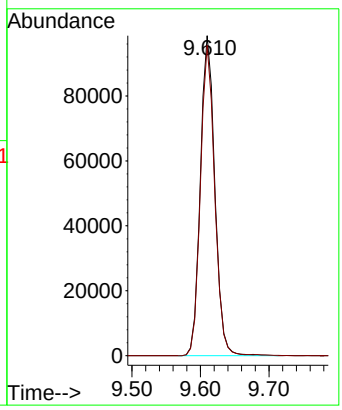




#61
1,2-Dibromoethane
Concen: 49.181 ug/l
RT: 9.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:107 Resp: 14501

Ion	Ratio	Lower	Upper
107	100		
109	95.9	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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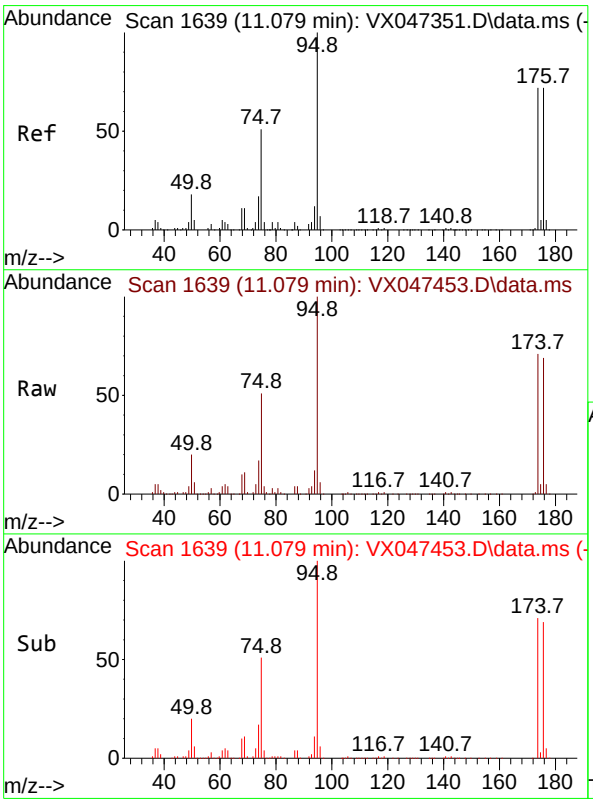
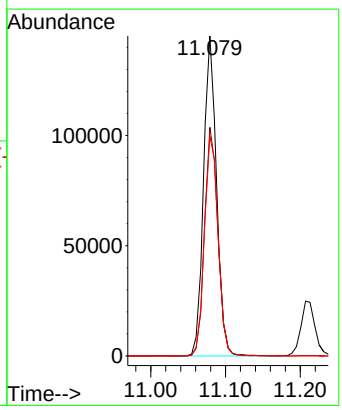
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

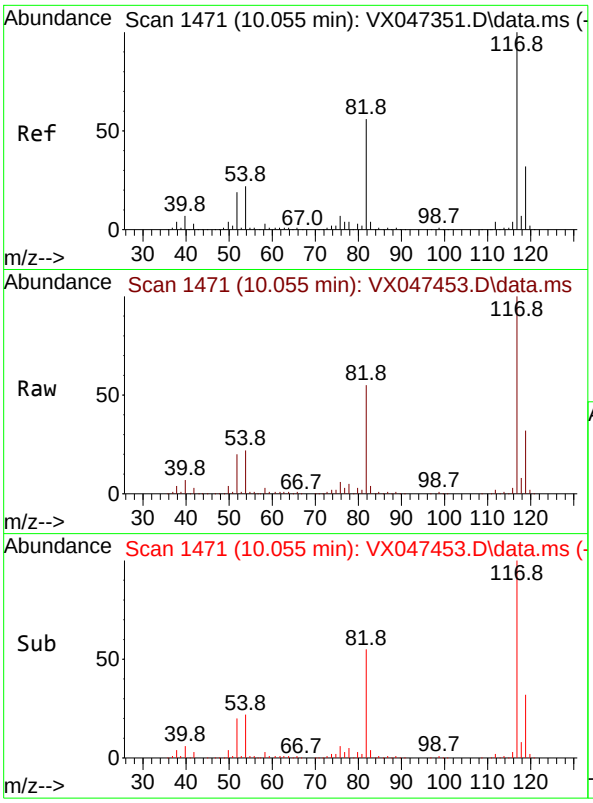


#62
4-Bromofluorobenzene
Concen: 51.281 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 95 Resp: 174471

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	148.0
176	72.3	0.0	145.4

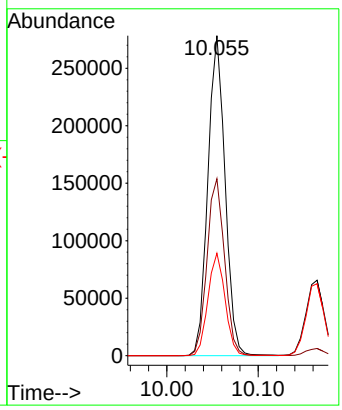




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:117 Resp: 36282

Ion	Ratio	Lower	Upper
117	100		
82	55.3	45.0	67.4
119	32.0	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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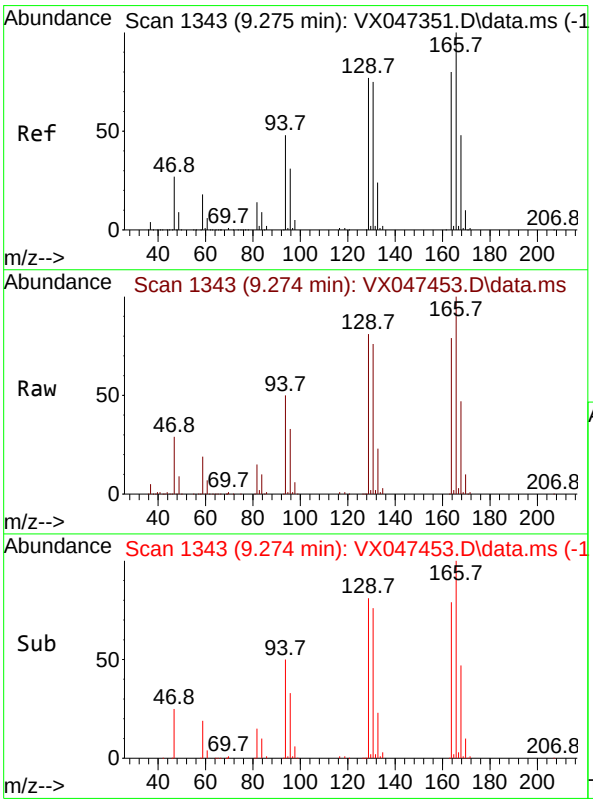
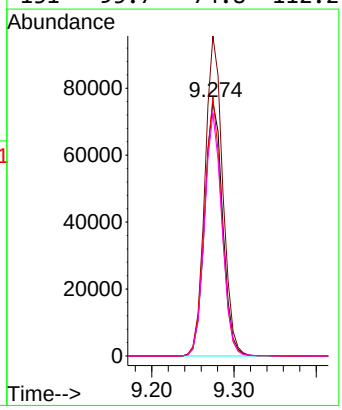
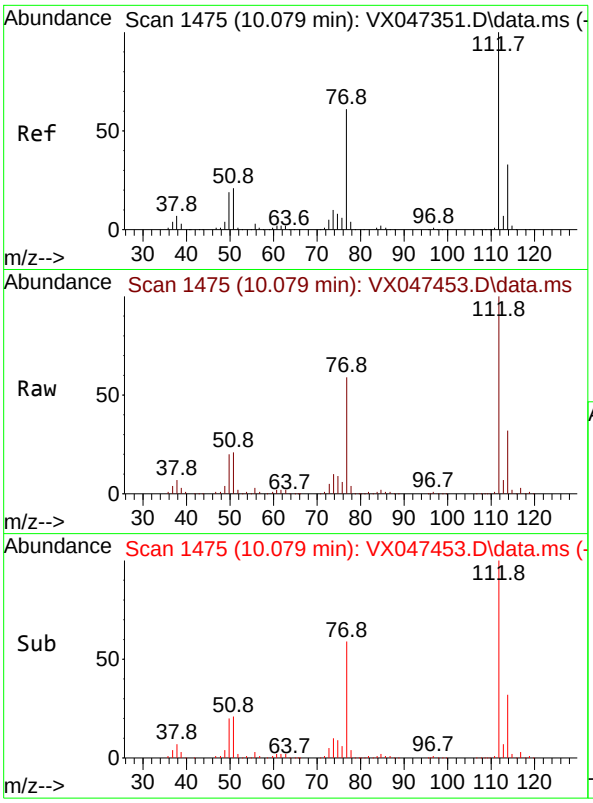


#64
Tetrachloroethene
Concen: 43.671 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:164 Resp: 114609

Ion	Ratio	Lower	Upper
164	100		
166	126.1	100.3	150.5
129	102.1	77.7	116.5
131	95.7	74.8	112.2

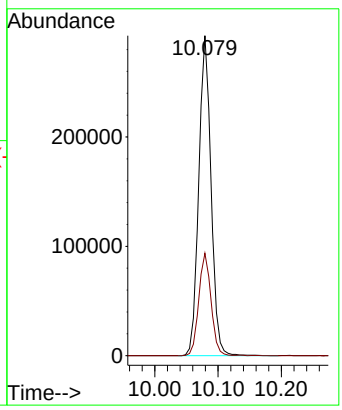




#65
Chlorobenzene
Concen: 45.872 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:112 Resp: 39551

Ion	Ratio	Lower	Upper
112	100		
114	32.0	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
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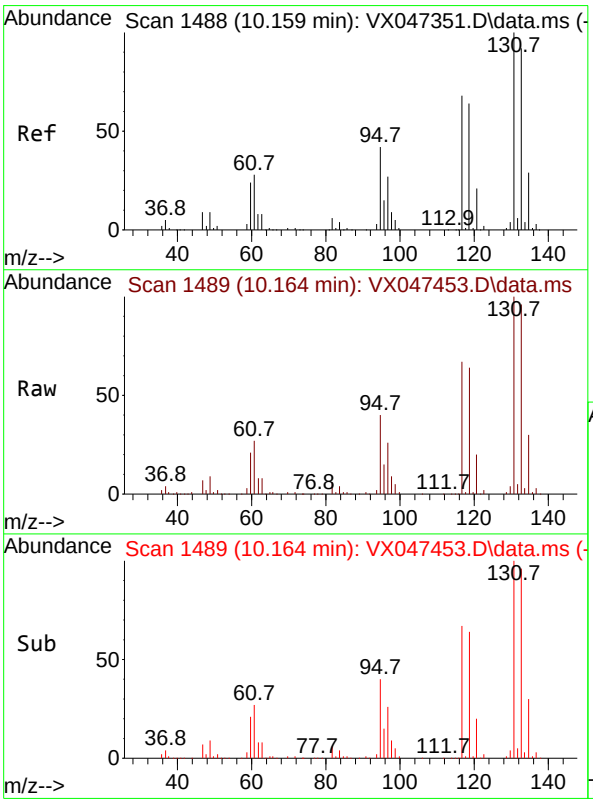
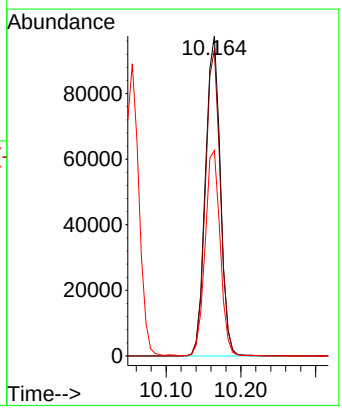
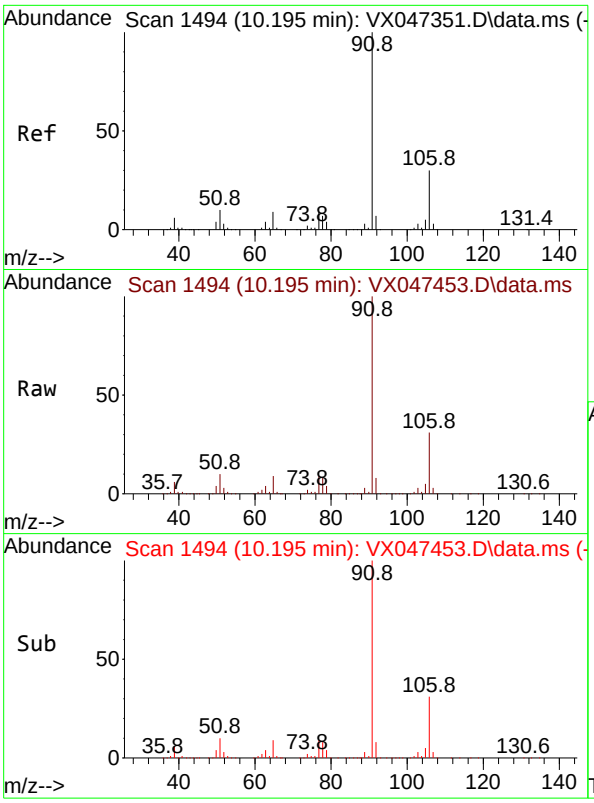


#66
1,1,1,2-Tetrachloroethane
Concen: 46.245 ug/l
RT: 10.164 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:131 Resp: 134787

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.6	142.9
119	64.7	32.3	96.8

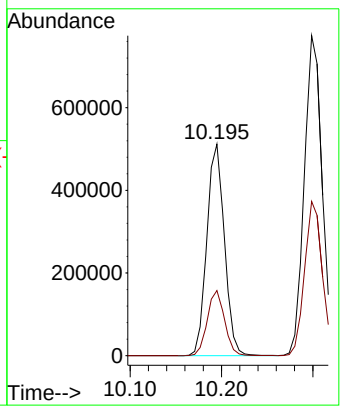




#67
Ethyl Benzene
Concen: 45.975 ug/l
RT: 10.195 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 91 Resp: 68226

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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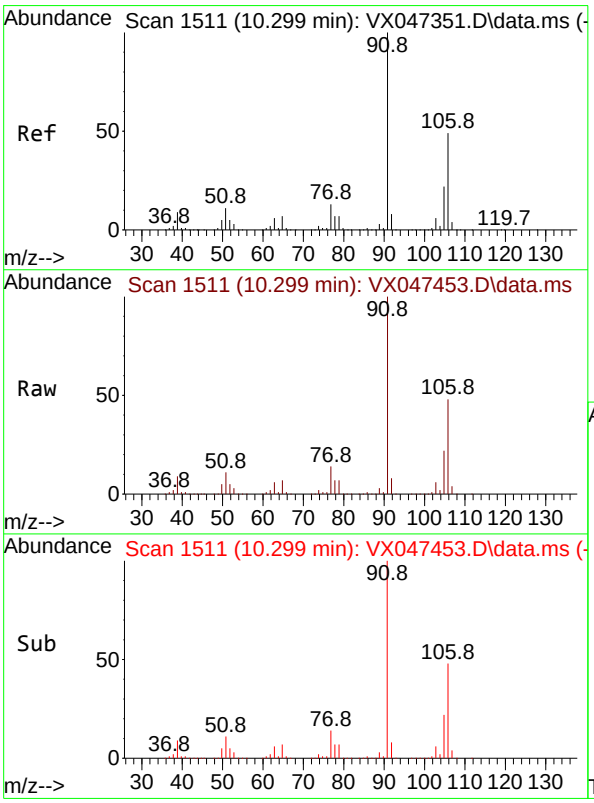
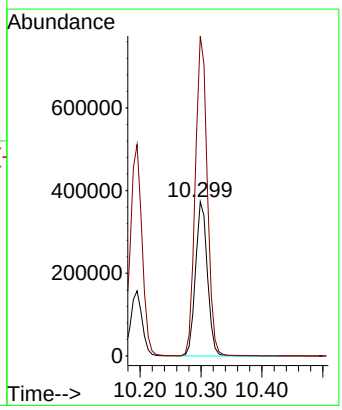
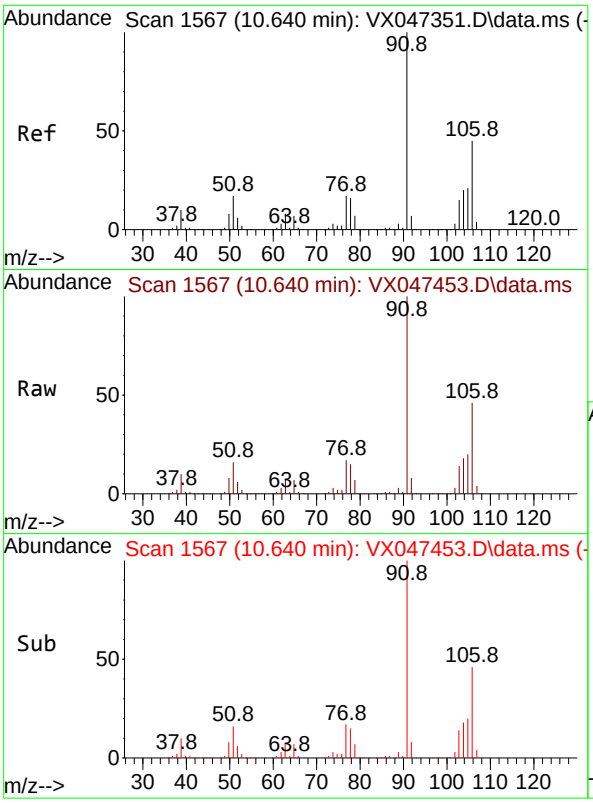


#68
m/p-Xylenes
Concen: 91.376 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:106 Resp: 505624

Ion	Ratio	Lower	Upper
106	100		
91	209.0	164.7	247.1

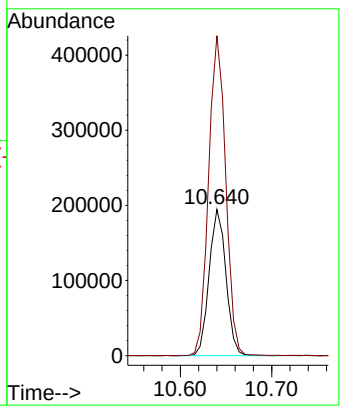




#69
o-Xylene
Concen: 46.690 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:106 Resp: 24862

Ion	Ratio	Lower	Upper
106	100		
91	221.6	110.6	331.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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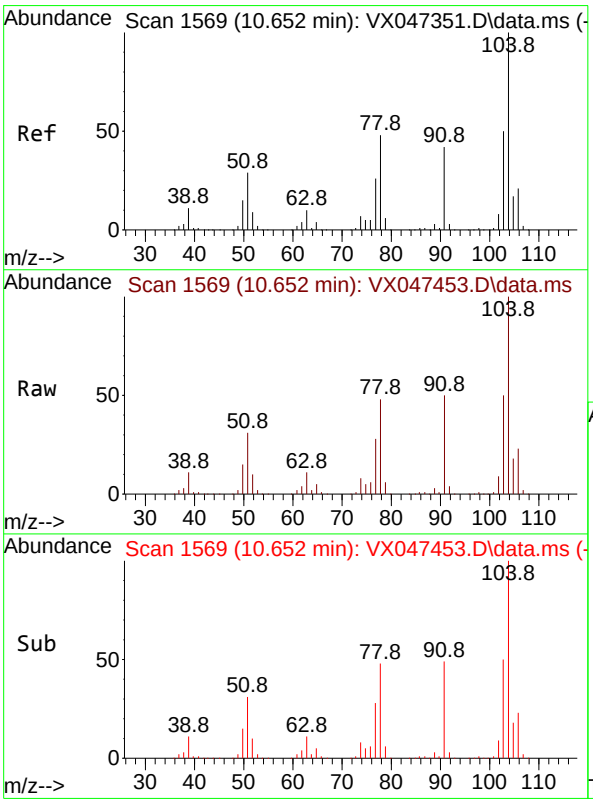
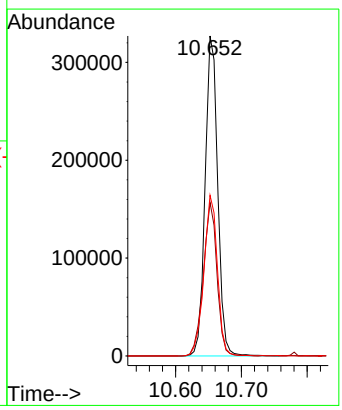
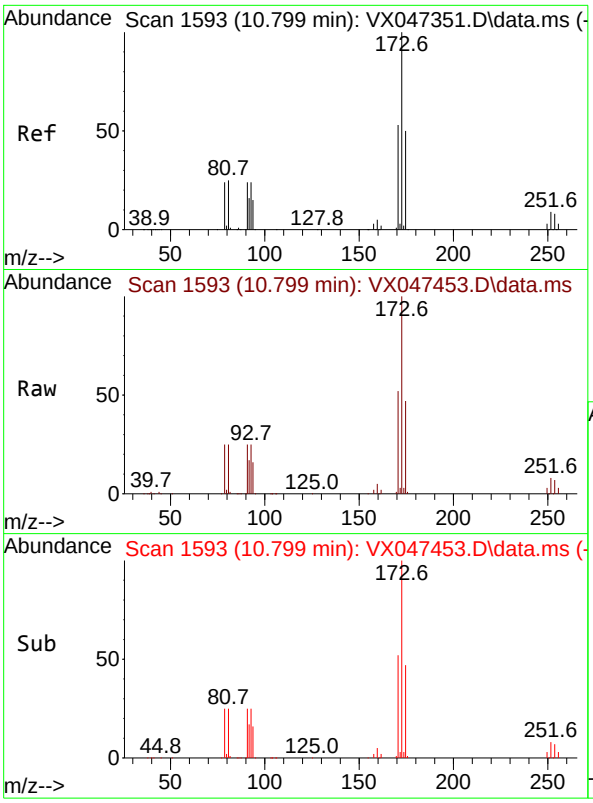


#70
Styrene
Concen: 48.426 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:104 Resp: 435716

Ion	Ratio	Lower	Upper
104	100		
78	52.1	41.8	62.8
103	54.1	43.6	65.4

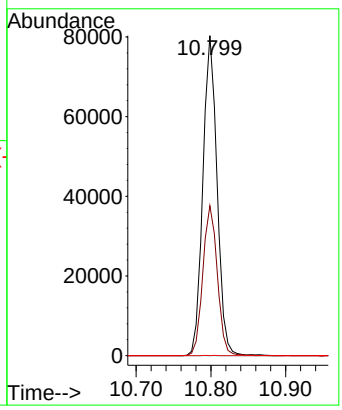




#71
Bromoform
Concen: 48.338 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:173 Resp: 10584

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.4	73.4
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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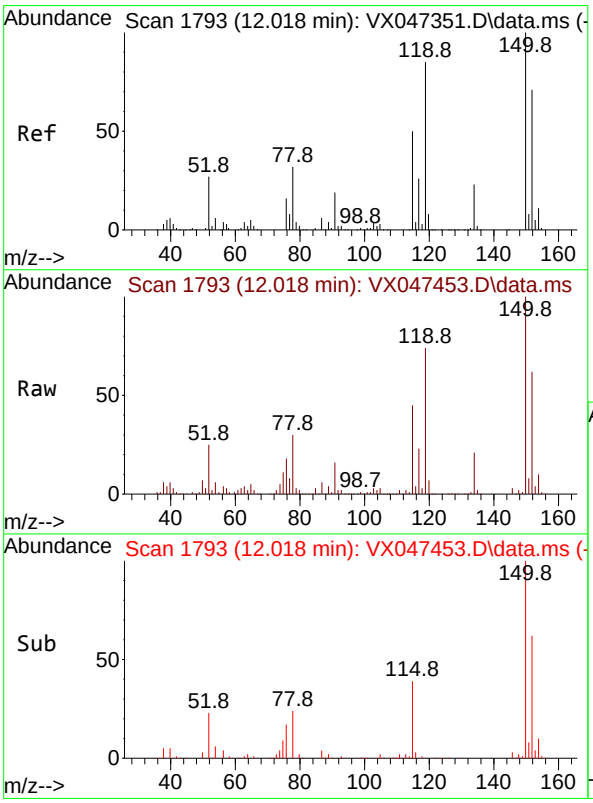
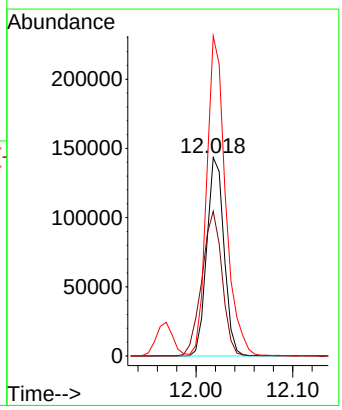
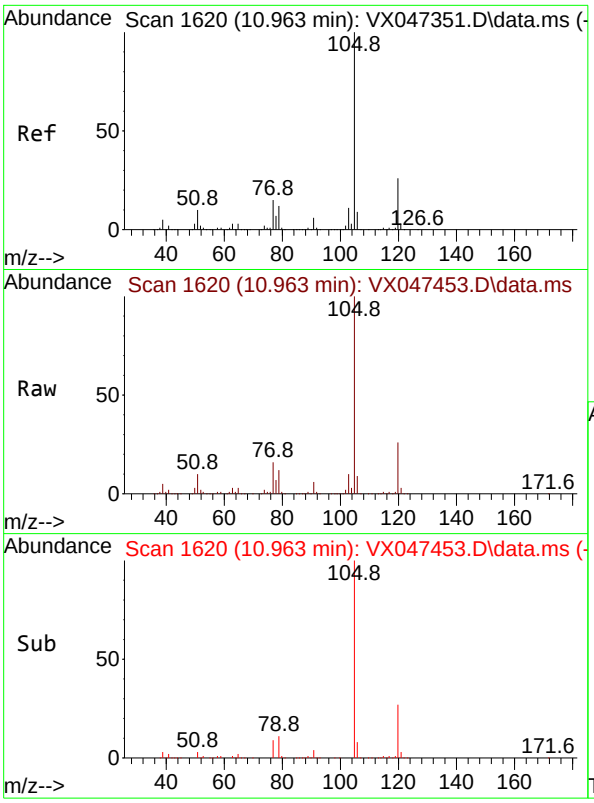


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:152 Resp: 178130

Ion	Ratio	Lower	Upper
152	100		
115	85.4	44.6	133.8
150	175.8	0.0	349.8





#73
Isopropylbenzene
Concen: 45.592 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:105 Resp: 63553

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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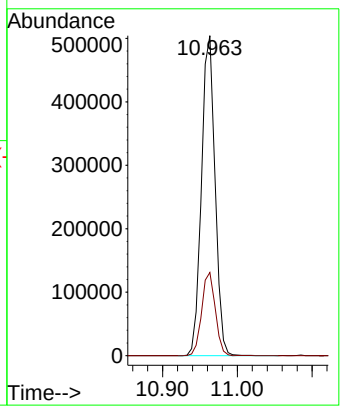
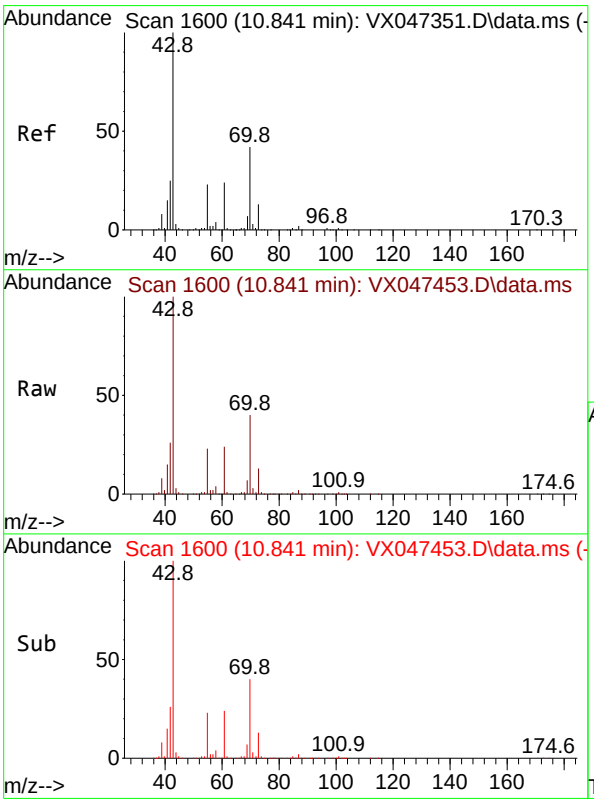
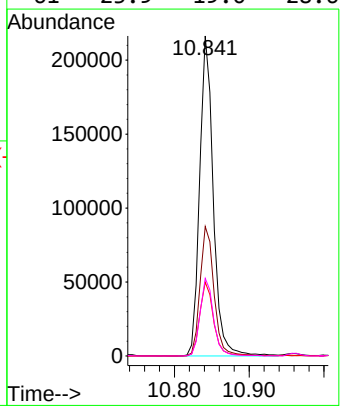


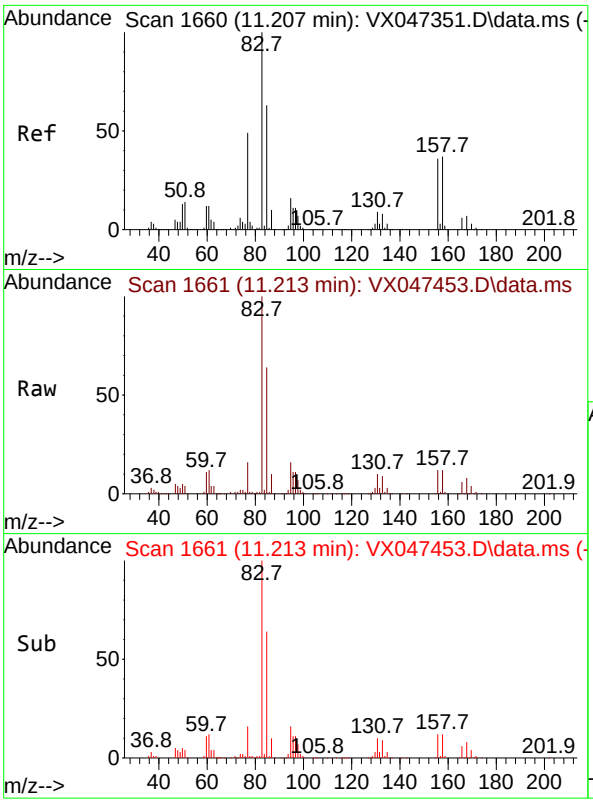


#74
N-amyl acetate
Concen: 51.837 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 43 Resp: 274391

Ion	Ratio	Lower	Upper
43	100		
70	41.4	33.1	49.7
55	23.5	19.0	28.6
61	23.9	19.0	28.6

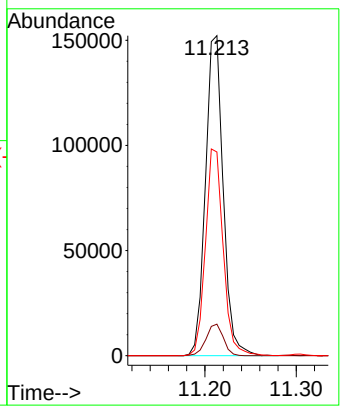




#75
1,1,2,2-Tetrachloroethane
Concen: 50.022 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 83 Resp: 20472

Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.0	15.0
85	64.5	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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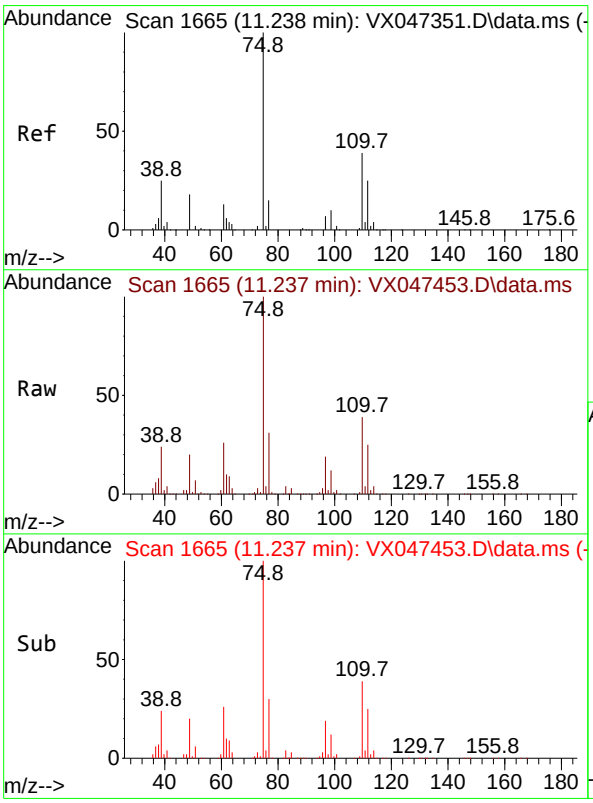
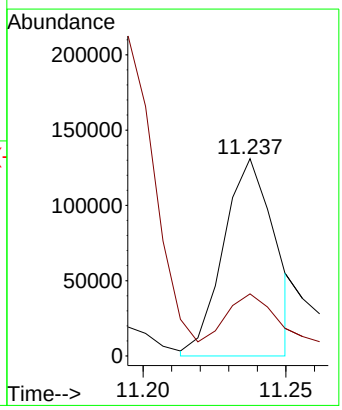
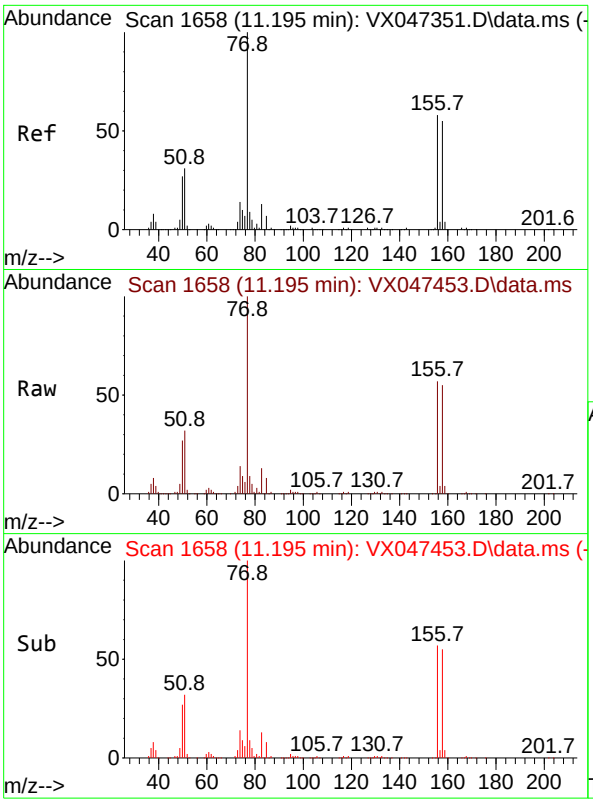


#76
1,2,3-Trichloropropane
Concen: 50.078 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 75 Resp: 163610

Ion	Ratio	Lower	Upper
75	100		
77	38.4	19.4	58.2

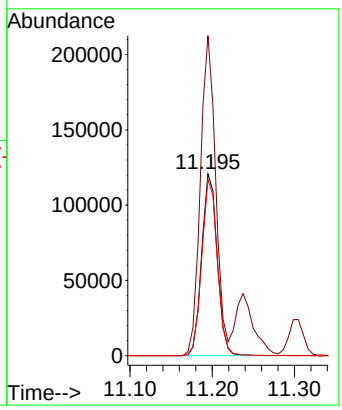




#77
Bromobenzene
Concen: 46.630 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:156 Resp: 15872

Ion	Ratio	Lower	Upper
156	100		
77	173.1	86.3	258.9
158	96.9	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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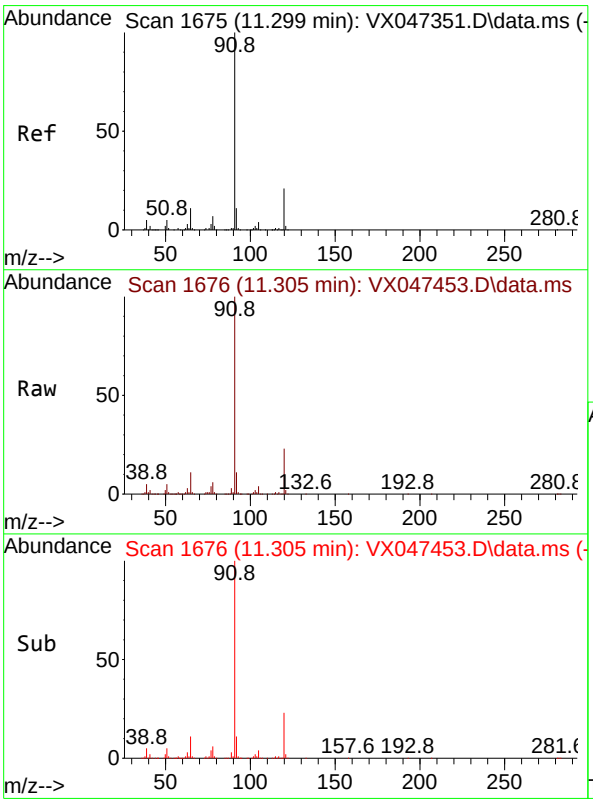
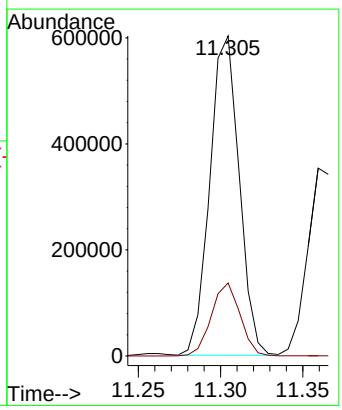
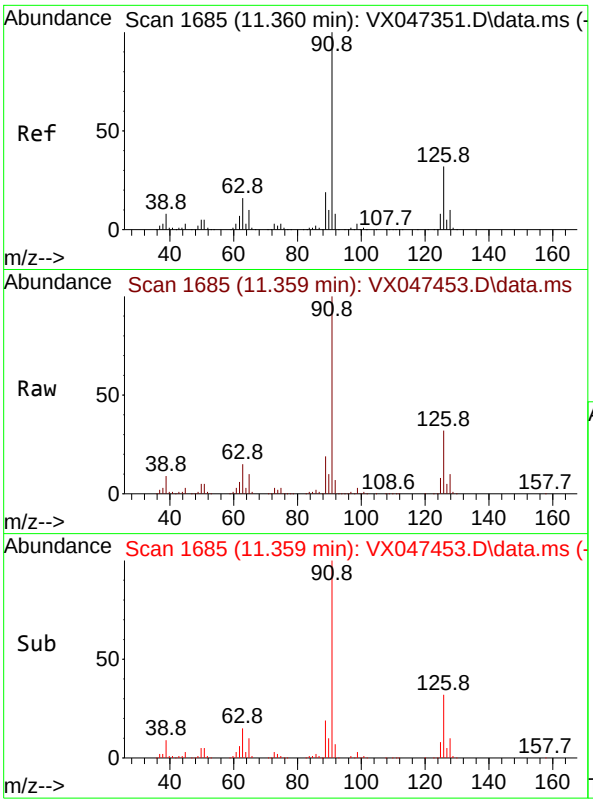


#78
n-propylbenzene
Concen: 44.937 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 91 Resp: 748109

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0

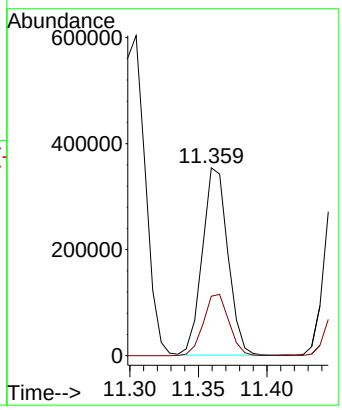




#79
2-Chlorotoluene
Concen: 45.604 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 91 Resp: 45895

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.7	50.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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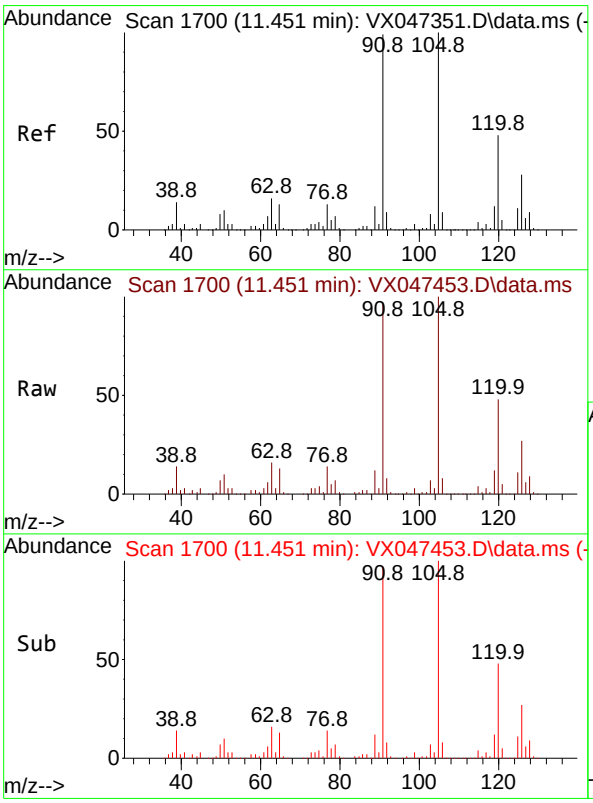
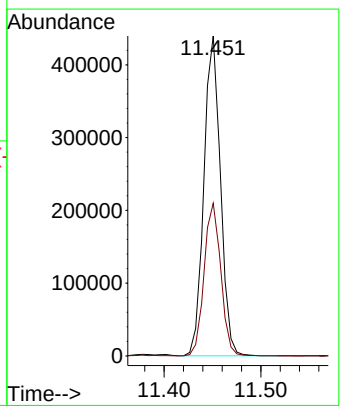
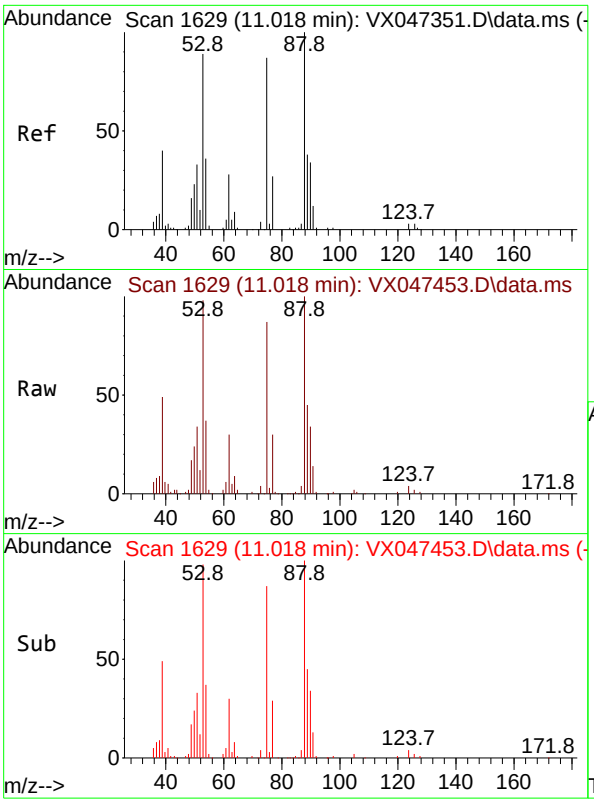


#80
1,3,5-Trimethylbenzene
Concen: 45.721 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:105 Resp: 524391

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.9	71.7

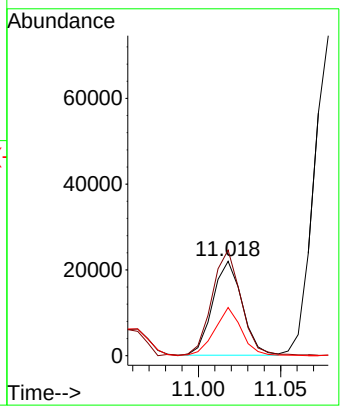




#81
trans-1,4-Dichloro-2-butene
Concen: 38.529 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 75 Resp: 2734

Ion	Ratio	Lower	Upper
75	100		
53	111.9	85.2	127.8
89	47.2	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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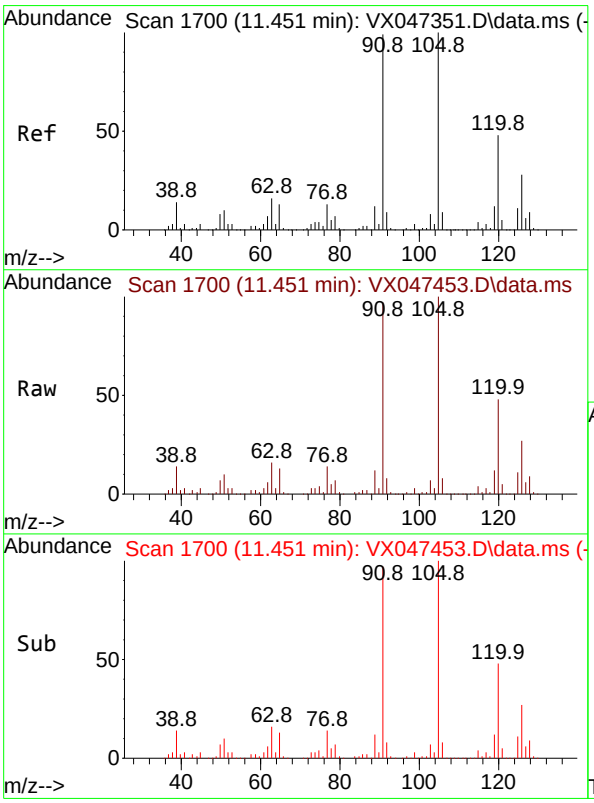
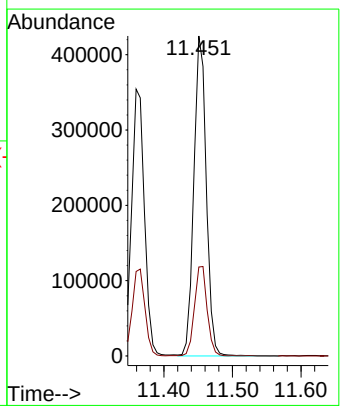
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

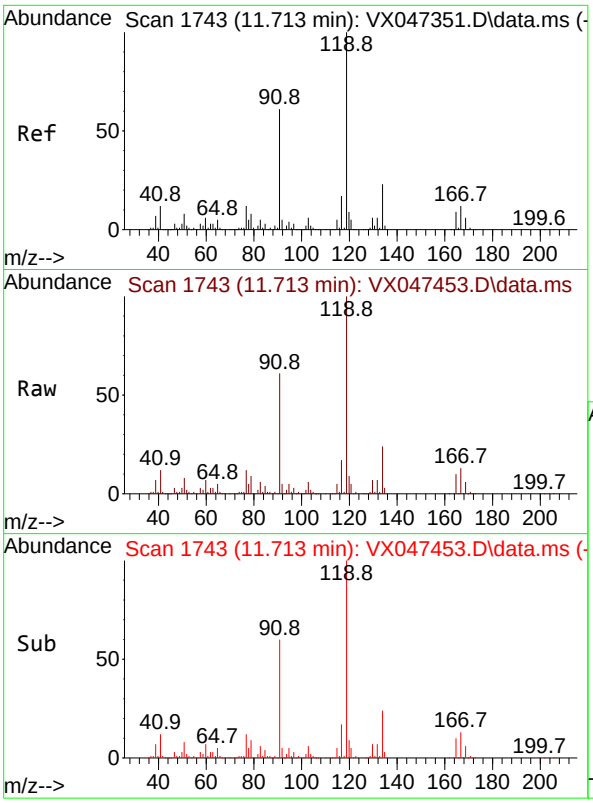


#82
4-Chlorotoluene
Concen: 45.262 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 91 Resp: 536951

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.4	43.0

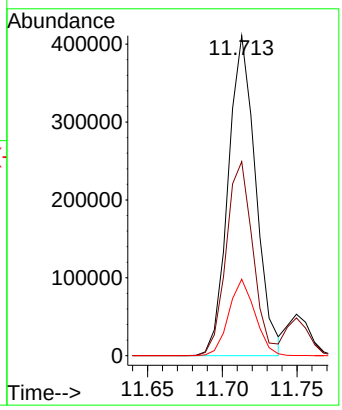




#83
tert-Butylbenzene
Concen: 45.868 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:119 Resp: 52485

Ion	Ratio	Lower	Upper
119	100		
91	59.5	29.1	87.4
134	22.8	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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Reviewed By :John Carlone 08/21/2025
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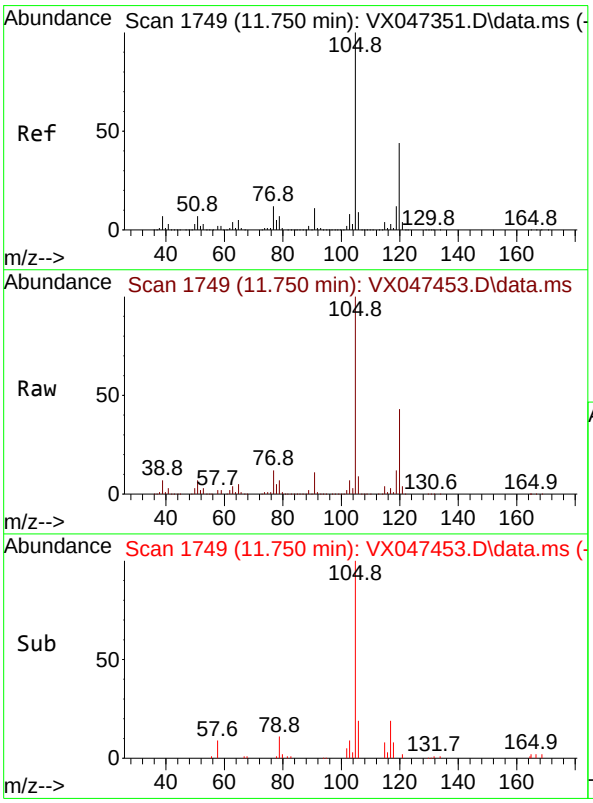
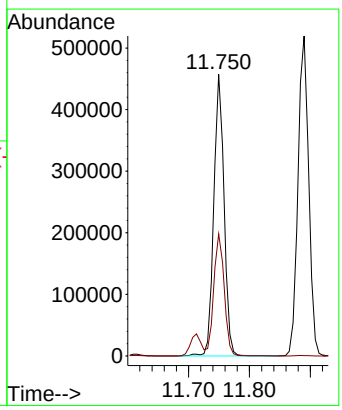
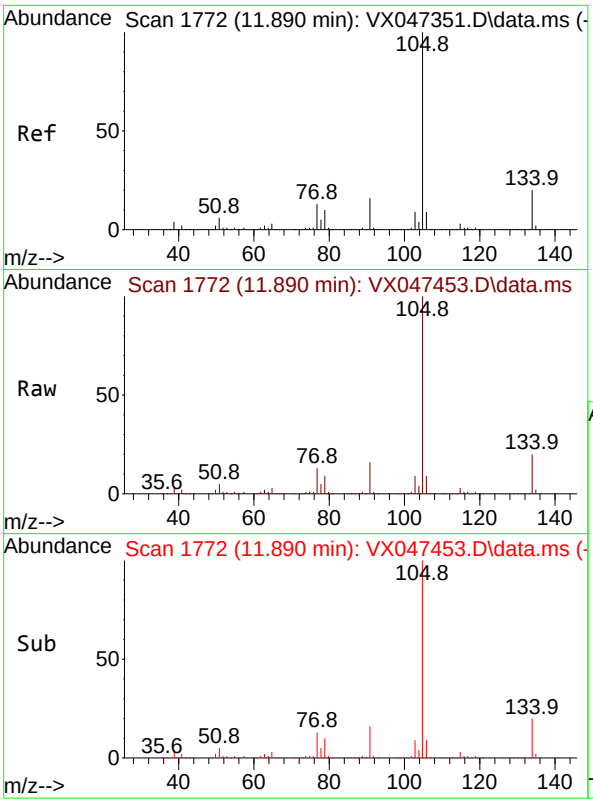


#84
1,2,4-Trimethylbenzene
Concen: 46.554 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:105 Resp: 533947

Ion	Ratio	Lower	Upper
105	100		
120	44.2	21.9	65.7

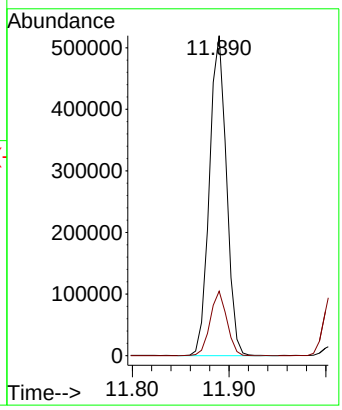




#85
sec-Butylbenzene
Concen: 44.881 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:105 Resp: 63653

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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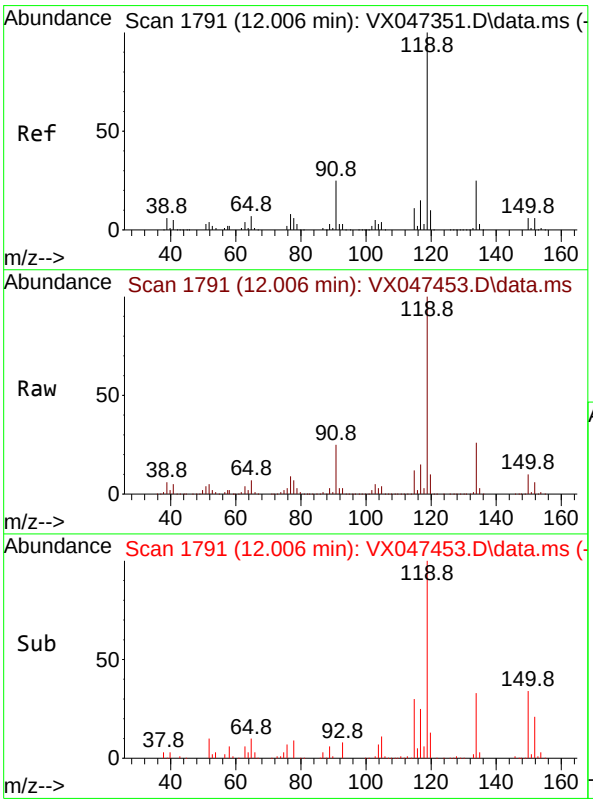
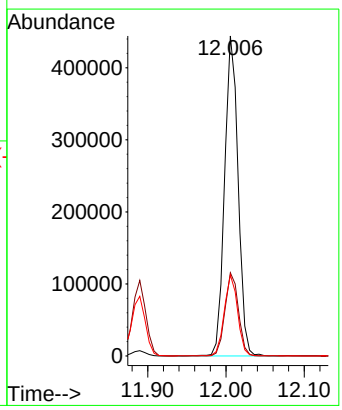
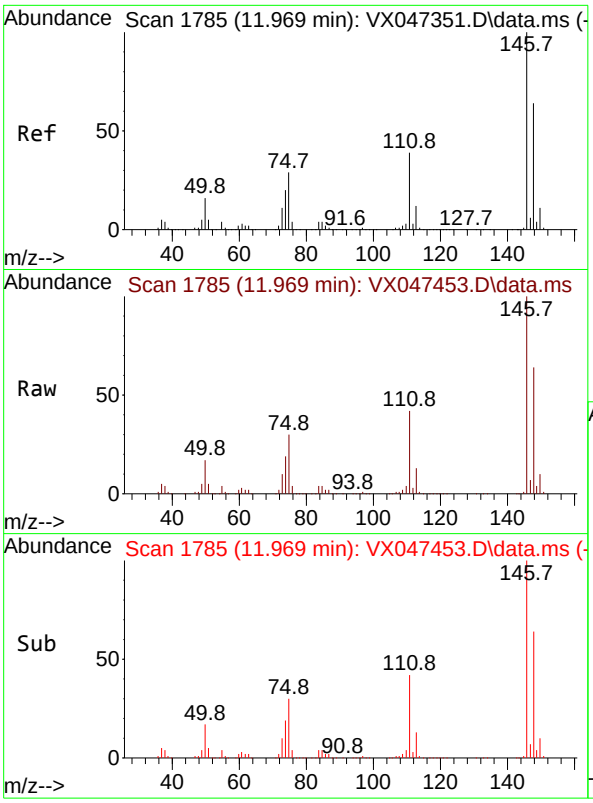


#86
p-Isopropyltoluene
Concen: 44.464 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:119 Resp: 533633

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	24.9	12.4	37.4

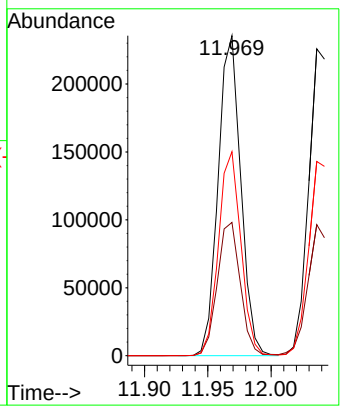




#87
1,3-Dichlorobenzene
Concen: 45.035 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:146 Resp: 29285

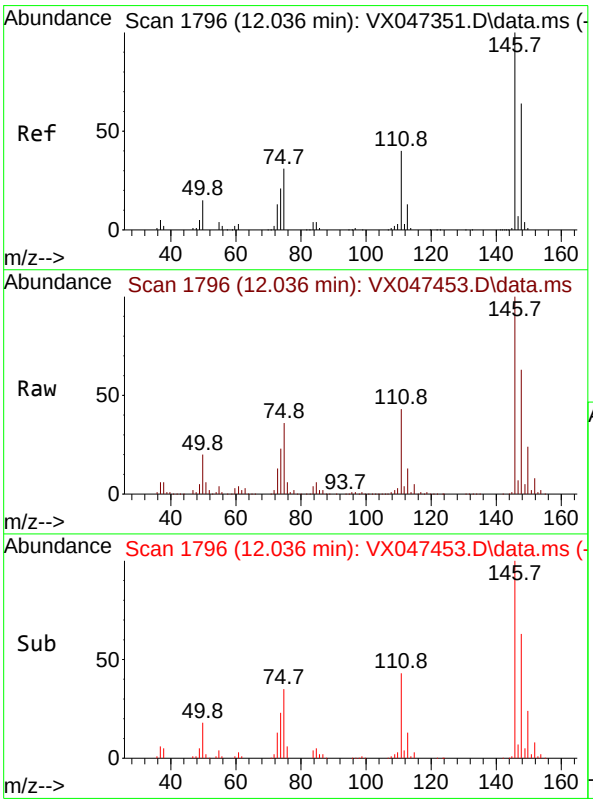
Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.6	61.8
148	63.1	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

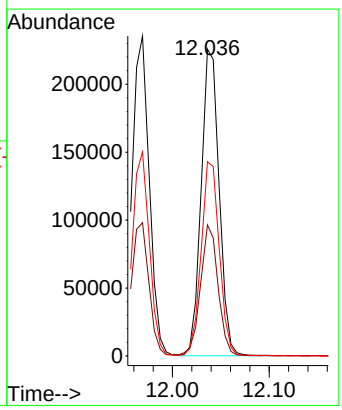
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

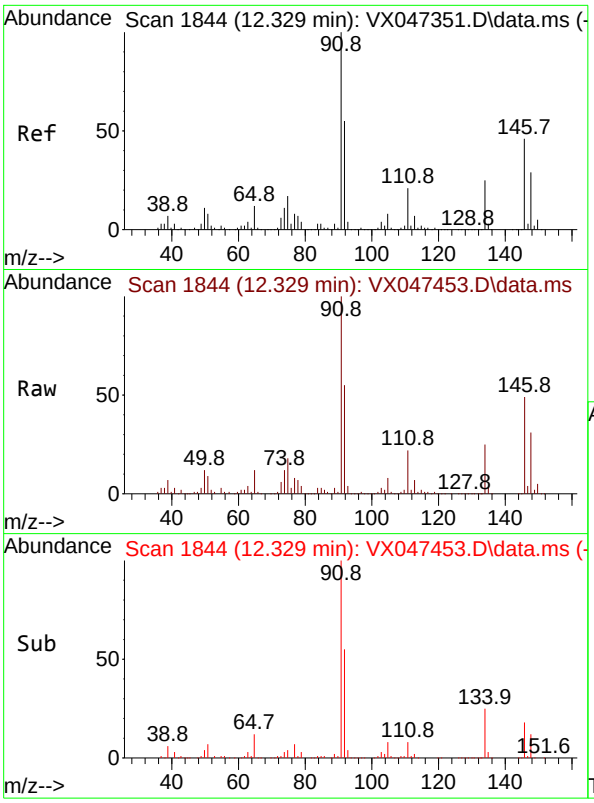


#88
1,4-Dichlorobenzene
Concen: 43.659 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:146 Resp: 292001

Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.4	61.2
148	64.2	31.7	95.1

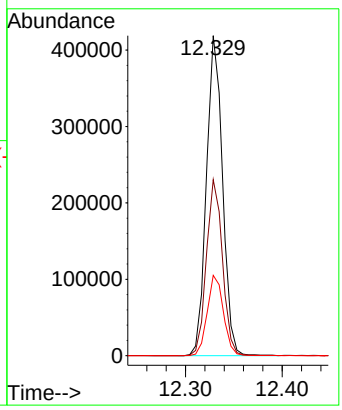




#89
n-Butylbenzene
Concen: 43.388 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 91 Resp: 48433

Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.2	81.5
134	25.3	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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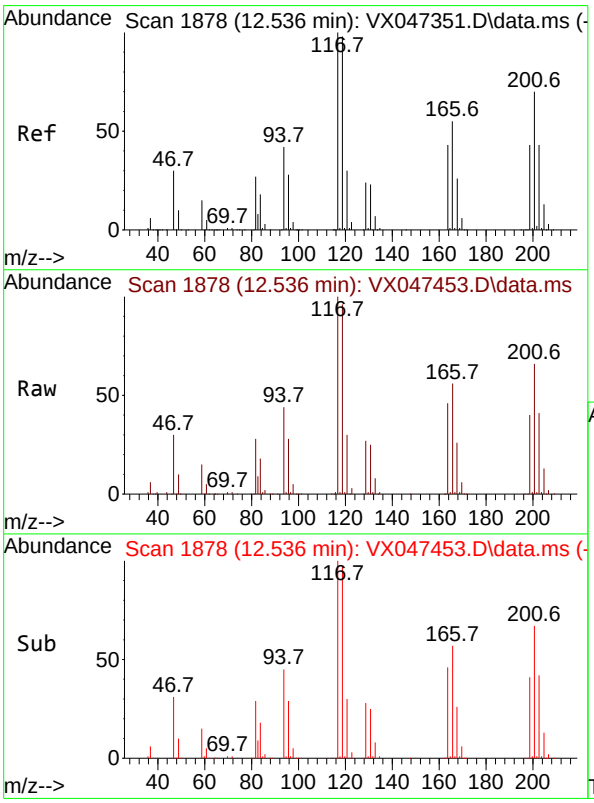
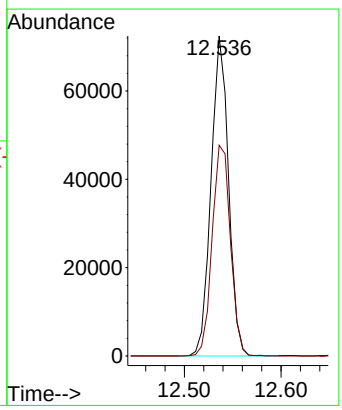
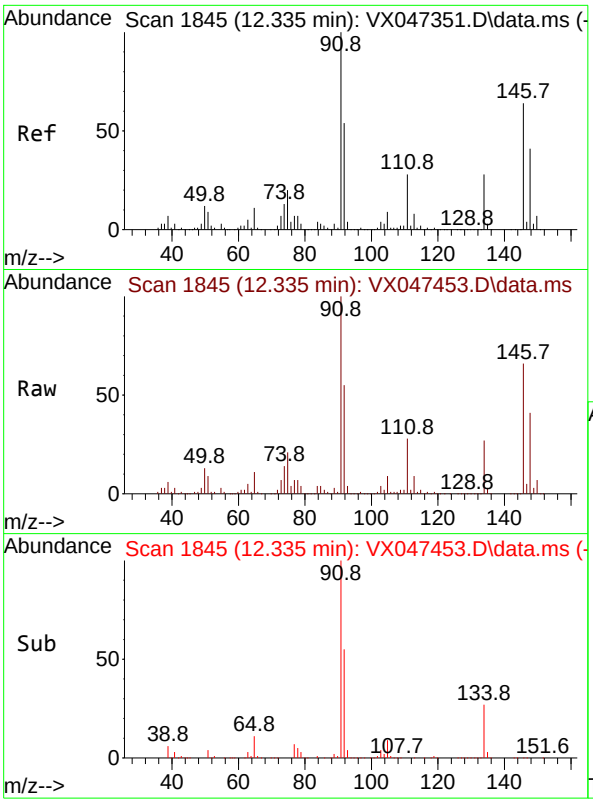


#90
Hexachloroethane
Concen: 43.186 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:117 Resp: 90925

Ion	Ratio	Lower	Upper
117	100		
201	69.1	35.1	105.3

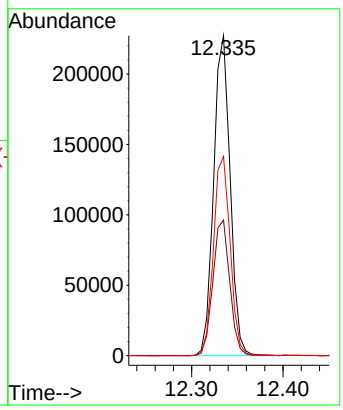




#91
1,2-Dichlorobenzene
Concen: 46.230 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:146 Resp: 28534

Ion	Ratio	Lower	Upper
146	100		
111	43.3	22.1	66.1
148	63.0	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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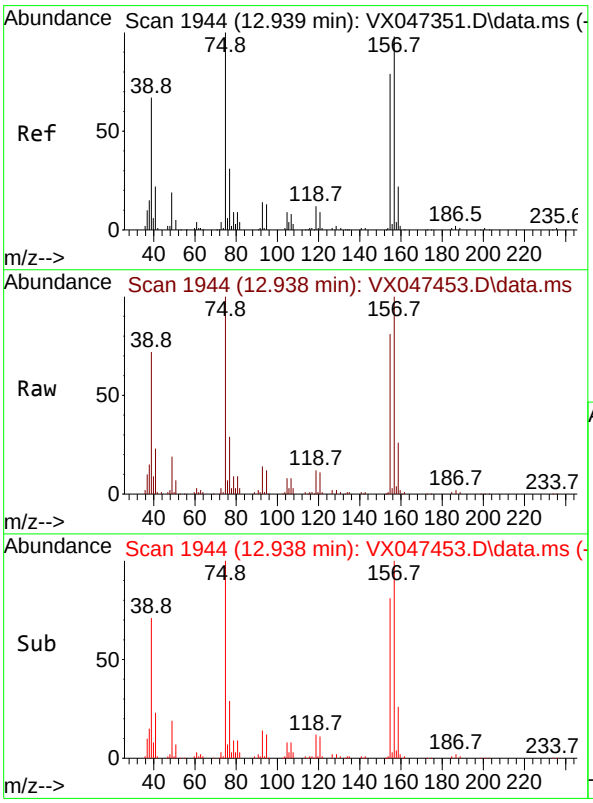
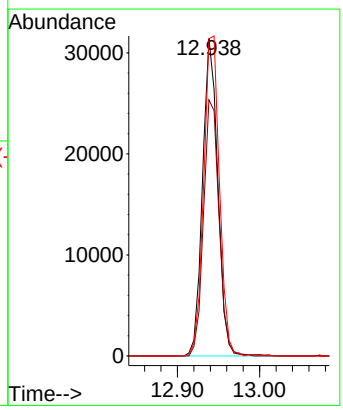
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

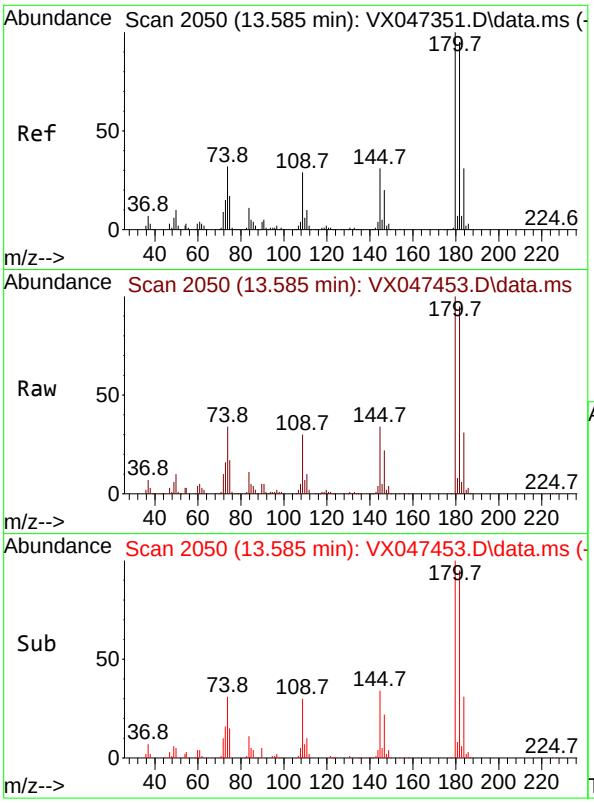


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.127 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 75 Resp: 40467

Ion	Ratio	Lower	Upper
75	100		
155	81.8	41.3	123.7
157	104.5	51.5	154.5

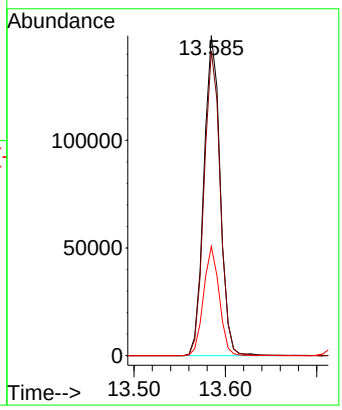




#93
1,2,4-Trichlorobenzene
Concen: 44.264 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:180 Resp: 18315

Ion	Ratio	Lower	Upper
180	100		
182	95.0	48.1	144.4
145	32.9	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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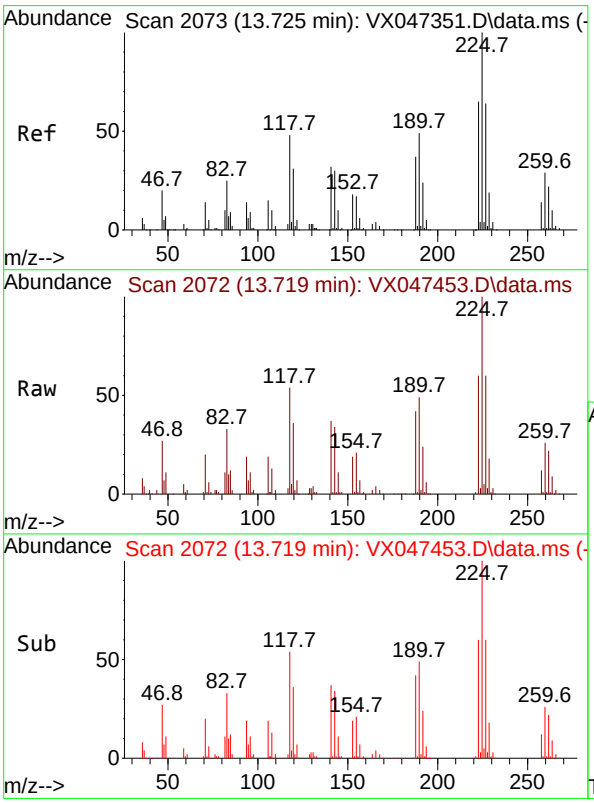
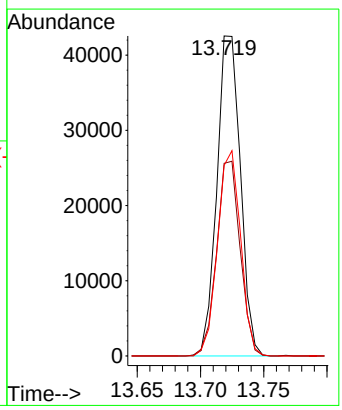
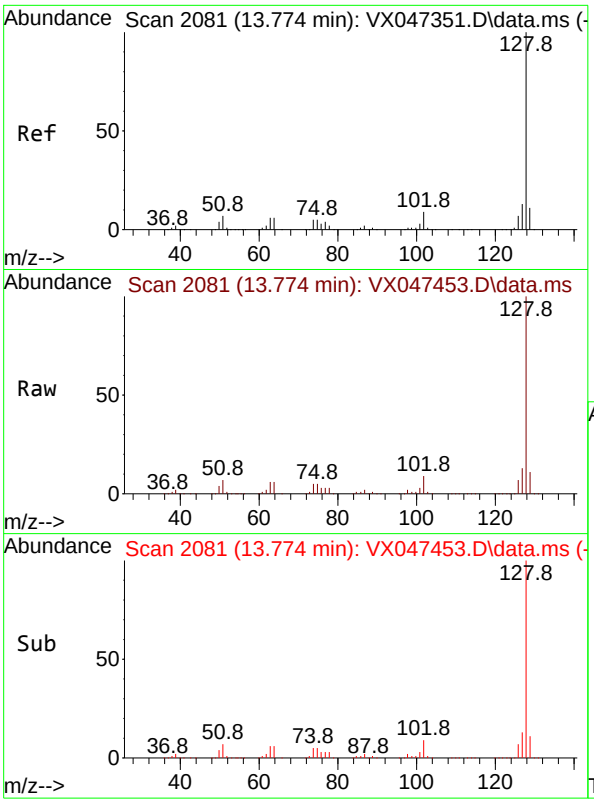


#94
Hexachlorobutadiene
Concen: 37.337 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:225 Resp: 54992

Ion	Ratio	Lower	Upper
225	100		
223	60.9	32.2	96.6
227	62.8	31.6	95.0

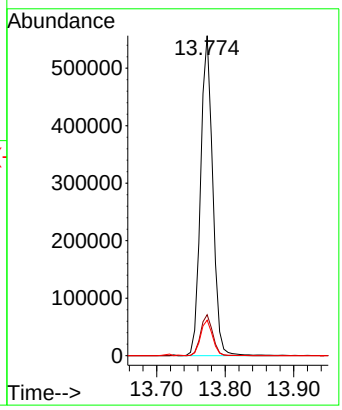




#95
Naphthalene
Concen: 57.969 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:128 Resp: 68547

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	11.1	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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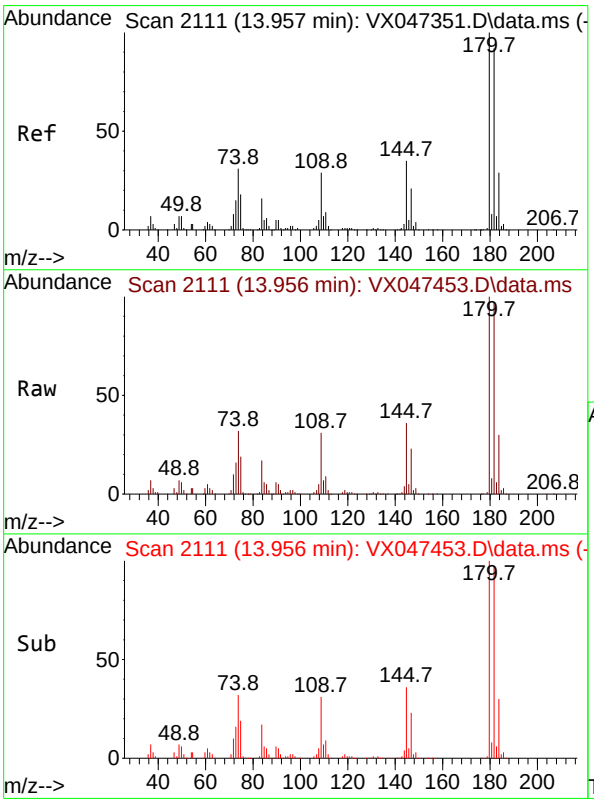
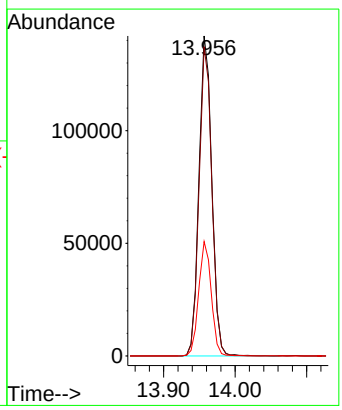


#96
1,2,3-Trichlorobenzene
Concen: 45.381 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:180 Resp: 176999

Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.0	144.2
145	35.0	17.4	52.2



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Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 21 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	92	0.00
2	T	Dichlorodifluoromethane	0.637	0.566	11.1	71	0.00
3	P	Chloromethane	0.573	0.541	5.6	80	0.00
4	C	Vinyl Chloride	0.720	0.667	7.4#	77	0.00
5	T	Bromomethane	0.291	0.202	30.6#	55	0.00
6	T	Chloroethane	0.440	0.421	4.3	84	0.00
7	T	Trichlorofluoromethane	1.065	0.957	10.1	74	0.00
8	T	Diethyl Ether	0.375	0.394	-5.1	87	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.618	0.557	9.9	73	0.00
10	T	Methyl Iodide	1.058	0.584	44.8#	46#	0.00
11	T	Tert butyl alcohol	0.061	0.082	-34.4#	111	0.00
12	CM	1,1-Dichloroethene	0.630	0.591	6.2#	78	0.00
13	T	Acrolein	0.129	0.151	-17.1	105	0.00
14	T	Allyl chloride	1.093	1.087	0.5	82	0.00
15	T	Acrylonitrile	0.294	0.338	-15.0	92	0.00
16	T	Acetone	0.263	0.271	-3.0	89	0.00
17	T	Carbon Disulfide	1.900	1.599	15.8	74	0.00
18	T	Methyl Acetate	0.682	0.860	-26.1#	103	0.00
19	T	Methyl tert-butyl Ether	1.915	2.097	-9.5	89	0.00
20	T	Methylene Chloride	0.697	0.705	-1.1	86	0.00
21	T	trans-1,2-Dichloroethene	0.668	0.645	3.4	82	0.00
22	T	Diisopropyl ether	2.161	2.343	-8.4	88	0.00
23	T	Vinyl Acetate	1.772	1.949	-10.0	88	0.00
24	P	1,1-Dichloroethane	1.222	1.236	-1.1	84	0.00
25	T	2-Butanone	0.344	0.424	-23.3	100	0.00
26	T	2,2-Dichloropropane	0.922	0.766	16.9	69	0.00
27	T	cis-1,2-Dichloroethene	0.778	0.790	-1.5	86	0.00
28	T	Bromochloromethane	0.508	0.596	-17.3	101	0.00
29	T	Tetrahydrofuran	0.223	0.264	-18.4	99	0.00
30	C	Chloroform	1.247	1.266	-1.5#	85	0.00
31	T	Cyclohexane	1.126	0.998	11.4	76	0.00
32	T	1,1,1-Trichloroethane	1.073	1.030	4.0	79	0.00
33	S	1,2-Dichloroethane-d4	0.700	0.774	-10.6	102	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
35	S	Dibromofluoromethane	0.325	0.329	-1.2	97	0.00
36	T	1,1-Dichloropropene	0.512	0.461	10.0	80	0.00
37	T	Ethyl Acetate	0.532	0.530	0.4	88	0.01
38	T	Carbon Tetrachloride	0.560	0.479	14.5	77	0.00
39	T	Methylcyclohexane	0.639	0.516	19.2	73	0.00
40	TM	Benzene	1.533	1.447	5.6	83	0.00
41	T	Methacrylonitrile	0.224	0.241	-7.6	92	0.00
42	TM	1,2-Dichloroethane	0.543	0.531	2.2	87	0.00
43	T	Isopropyl Acetate	0.764	0.829	-8.5	94	0.00
44	TM	Trichloroethene	0.393	0.357	9.2	81	0.00
45	C	1,2-Dichloropropane	0.384	0.375	2.3#	87	0.00
46	T	Dibromomethane	0.279	0.272	2.5	88	0.00
47	T	Bromodichloromethane	0.578	0.552	4.5	85	0.00
48	T	Methyl methacrylate	0.397	0.421	-6.0	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 21 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	104	0.00
50	S	Toluene-d8	1.160	1.140	1.7	95	0.00
51	T	4-Methyl-2-Pentanone	0.440	0.489	-11.1	94	0.00
52	CM	Toluene	0.947	0.892	5.8#	83	0.00
53	T	t-1,3-Dichloropropene	0.505	0.500	1.0	84	0.00
54	T	cis-1,3-Dichloropropene	0.571	0.552	3.3	84	0.00
55	T	1,1,2-Trichloroethane	0.360	0.359	0.3	89	0.00
56	T	Ethyl methacrylate	0.530	0.571	-7.7	91	0.00
57	T	1,3-Dichloropropane	0.613	0.610	0.5	89	0.00
58	T	2-Chloroethyl Vinyl ether	0.211	0.260	-23.2	93	0.00
59	T	2-Hexanone	0.304	0.334	-9.9	95	0.00
60	T	Dibromochloromethane	0.428	0.410	4.2	87	0.00
61	T	1,2-Dibromoethane	0.371	0.365	1.6	87	0.00
62	S	4-Bromofluorobenzene	0.428	0.439	-2.6	100	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
64	T	Tetrachloroethene	0.362	0.316	12.7	79	0.00
65	PM	Chlorobenzene	1.188	1.090	8.2	85	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.371	7.7	84	0.00
67	C	Ethyl Benzene	2.045	1.880	8.1#	83	0.00
68	T	m/p-Xylenes	0.763	0.697	8.7	81	0.00
69	T	o-Xylene	0.734	0.685	6.7	84	0.00
70	T	Styrene	1.240	1.201	3.1	85	0.00
71	P	Bromoform	0.302	0.292	3.3	87	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.913	3.568	8.8	81	0.00
74	T	N-amyl acetate	1.486	1.540	-3.6	89	0.00
75	P	1,1,2,2-Tetrachloroethane	1.149	1.149	0.0	91	0.00
76	T	1,2,3-Trichloropropane	0.917	0.918	-0.1	91	0.00
77	T	Bromobenzene	0.955	0.891	6.7	85	0.00
78	T	n-propylbenzene	4.673	4.200	10.1	81	0.00
79	T	2-Chlorotoluene	2.825	2.577	8.8	84	0.00
80	T	1,3,5-Trimethylbenzene	3.219	2.944	8.5	82	0.00
81	T	trans-1,4-Dichloro-2-butene	0.178	0.154	13.5	77	0.00
82	T	4-Chlorotoluene	3.330	3.014	9.5	83	0.00
83	T	tert-Butylbenzene	3.212	2.946	8.3	82	0.00
84	T	1,2,4-Trimethylbenzene	3.219	2.998	6.9	83	0.00
85	T	sec-Butylbenzene	3.981	3.573	10.2	81	0.00
86	T	p-Isopropyltoluene	3.369	2.996	11.1	81	0.00
87	T	1,3-Dichlorobenzene	1.825	1.644	9.9	83	0.00
88	T	1,4-Dichlorobenzene	1.877	1.639	12.7	83	0.00
89	T	n-Butylbenzene	3.133	2.719	13.2	79	0.00
90	T	Hexachloroethane	0.591	0.510	13.7	79	0.00
91	T	1,2-Dichlorobenzene	1.733	1.602	7.6	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.222	0.227	-2.3	92	0.00
93	T	1,2,4-Trichlorobenzene	1.161	1.028	11.5	84	0.00
94	T	Hexachlorobutadiene	0.413	0.309	25.2#	77	0.00
95	T	Naphthalene	3.319	3.848	-15.9	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 21 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1.095	0.994	9.2	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 21 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	92	0.00
2	T	Dichlorodifluoromethane	50.000	44.372	11.3	71	0.00
3	P	Chloromethane	50.000	47.189	5.6	80	0.00
4	C	Vinyl Chloride	50.000	46.337	7.3#	77	0.00
5	T	Bromomethane	50.000	34.789	30.4#	55	0.00
6	T	Chloroethane	50.000	47.777	4.4	84	0.00
7	T	Trichlorofluoromethane	50.000	44.935	10.1	74	0.00
8	T	Diethyl Ether	50.000	52.580	-5.2	87	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	45.126	9.7	73	0.00
10	T	Methyl Iodide	50.000	27.577	44.8#	46	0.00
11	T	Tert butyl alcohol	250.000	338.682	-35.5#	111	0.00
12	CM	1,1-Dichloroethene	50.000	46.960	6.1#	78	0.00
13	T	Acrolein	250.000	294.230	-17.7	105	0.00
14	T	Allyl chloride	50.000	49.697	0.6	82	0.00
15	T	Acrylonitrile	250.000	287.522	-15.0	92	0.00
16	T	Acetone	250.000	258.028	-3.2	89	0.00
17	T	Carbon Disulfide	50.000	42.091	15.8	74	0.00
18	T	Methyl Acetate	50.000	63.067	-26.1#	103	0.00
19	T	Methyl tert-butyl Ether	50.000	54.755	-9.5	89	0.00
20	T	Methylene Chloride	50.000	50.626	-1.3	86	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.285	3.4	82	0.00
22	T	Diisopropyl ether	50.000	54.195	-8.4	88	0.00
23	T	Vinyl Acetate	250.000	275.048	-10.0	88	0.00
24	P	1,1-Dichloroethane	50.000	50.593	-1.2	84	0.00
25	T	2-Butanone	250.000	307.630	-23.1	100	0.00
26	T	2,2-Dichloropropane	50.000	41.513	17.0	69	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.756	-1.5	86	0.00
28	T	Bromochloromethane	50.000	58.641	-17.3	101	0.00
29	T	Tetrahydrofuran	250.000	296.359	-18.5	99	0.00
30	C	Chloroform	50.000	50.776	-1.6#	85	0.00
31	T	Cyclohexane	50.000	44.313	11.4	76	0.00
32	T	1,1,1-Trichloroethane	50.000	47.987	4.0	79	0.00
33	S	1,2-Dichloroethane-d4	50.000	55.283	-10.6	102	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	98	0.00
35	S	Dibromofluoromethane	50.000	50.761	-1.5	97	0.00
36	T	1,1-Dichloropropene	50.000	45.011	10.0	80	0.00
37	T	Ethyl Acetate	50.000	49.833	0.3	88	0.01
38	T	Carbon Tetrachloride	50.000	42.744	14.5	77	0.00
39	T	Methylcyclohexane	50.000	40.357	19.3	73	0.00
40	TM	Benzene	50.000	47.193	5.6	83	0.00
41	T	Methacrylonitrile	50.000	53.767	-7.5	92	0.00
42	TM	1,2-Dichloroethane	50.000	48.905	2.2	87	0.00
43	T	Isopropyl Acetate	50.000	54.264	-8.5	94	0.00
44	TM	Trichloroethene	50.000	45.468	9.1	81	0.00
45	C	1,2-Dichloropropane	50.000	48.832	2.3#	87	0.00
46	T	Dibromomethane	50.000	48.823	2.4	88	0.00
47	T	Bromodichloromethane	50.000	47.732	4.5	85	0.00
48	T	Methyl methacrylate	50.000	53.107	-6.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 21 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1229.562	-23.0	104	0.00
50	S	Toluene-d8	50.000	49.137	1.7	95	0.00
51	T	4-Methyl-2-Pentanone	250.000	278.187	-11.3	94	0.00
52	CM	Toluene	50.000	47.090	5.8#	83	0.00
53	T	t-1,3-Dichloropropene	50.000	49.509	1.0	84	0.00
54	T	cis-1,3-Dichloropropene	50.000	48.331	3.3	84	0.00
55	T	1,1,2-Trichloroethane	50.000	49.854	0.3	89	0.00
56	T	Ethyl methacrylate	50.000	53.861	-7.7	91	0.00
57	T	1,3-Dichloropropane	50.000	49.771	0.5	89	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	256.814	-2.7	93	0.00
59	T	2-Hexanone	250.000	274.974	-10.0	95	0.00
60	T	Dibromochloromethane	50.000	47.975	4.0	87	0.00
61	T	1,2-Dibromoethane	50.000	49.181	1.6	87	0.00
62	S	4-Bromofluorobenzene	50.000	51.281	-2.6	100	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
64	T	Tetrachloroethene	50.000	43.671	12.7	79	0.00
65	PM	Chlorobenzene	50.000	45.872	8.3	85	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	46.245	7.5	84	0.00
67	C	Ethyl Benzene	50.000	45.975	8.0#	83	0.00
68	T	m/p-Xylenes	100.000	91.376	8.6	81	0.00
69	T	o-Xylene	50.000	46.690	6.6	84	0.00
70	T	Styrene	50.000	48.426	3.1	85	0.00
71	P	Bromoform	50.000	48.338	3.3	87	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	45.592	8.8	81	0.00
74	T	N-amyl acetate	50.000	51.837	-3.7	89	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.022	-0.0	91	0.00
76	T	1,2,3-Trichloropropane	50.000	50.078	-0.2	91	0.00
77	T	Bromobenzene	50.000	46.630	6.7	85	0.00
78	T	n-propylbenzene	50.000	44.937	10.1	81	0.00
79	T	2-Chlorotoluene	50.000	45.604	8.8	84	0.00
80	T	1,3,5-Trimethylbenzene	50.000	45.721	8.6	82	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	38.529	22.9	77	0.00
82	T	4-Chlorotoluene	50.000	45.262	9.5	83	0.00
83	T	tert-Butylbenzene	50.000	45.868	8.3	82	0.00
84	T	1,2,4-Trimethylbenzene	50.000	46.554	6.9	83	0.00
85	T	sec-Butylbenzene	50.000	44.881	10.2	81	0.00
86	T	p-Isopropyltoluene	50.000	44.464	11.1	81	0.00
87	T	1,3-Dichlorobenzene	50.000	45.035	9.9	83	0.00
88	T	1,4-Dichlorobenzene	50.000	43.659	12.7	83	0.00
89	T	n-Butylbenzene	50.000	43.388	13.2	79	0.00
90	T	Hexachloroethane	50.000	43.186	13.6	79	0.00
91	T	1,2-Dichlorobenzene	50.000	46.230	7.5	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.127	-2.3	92	0.00
93	T	1,2,4-Trichlorobenzene	50.000	44.264	11.5	84	0.00
94	T	Hexachlorobutadiene	50.000	37.337	25.3#	77	0.00
95	T	Naphthalene	50.000	57.969	-15.9	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 21 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	45.381	9.2	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

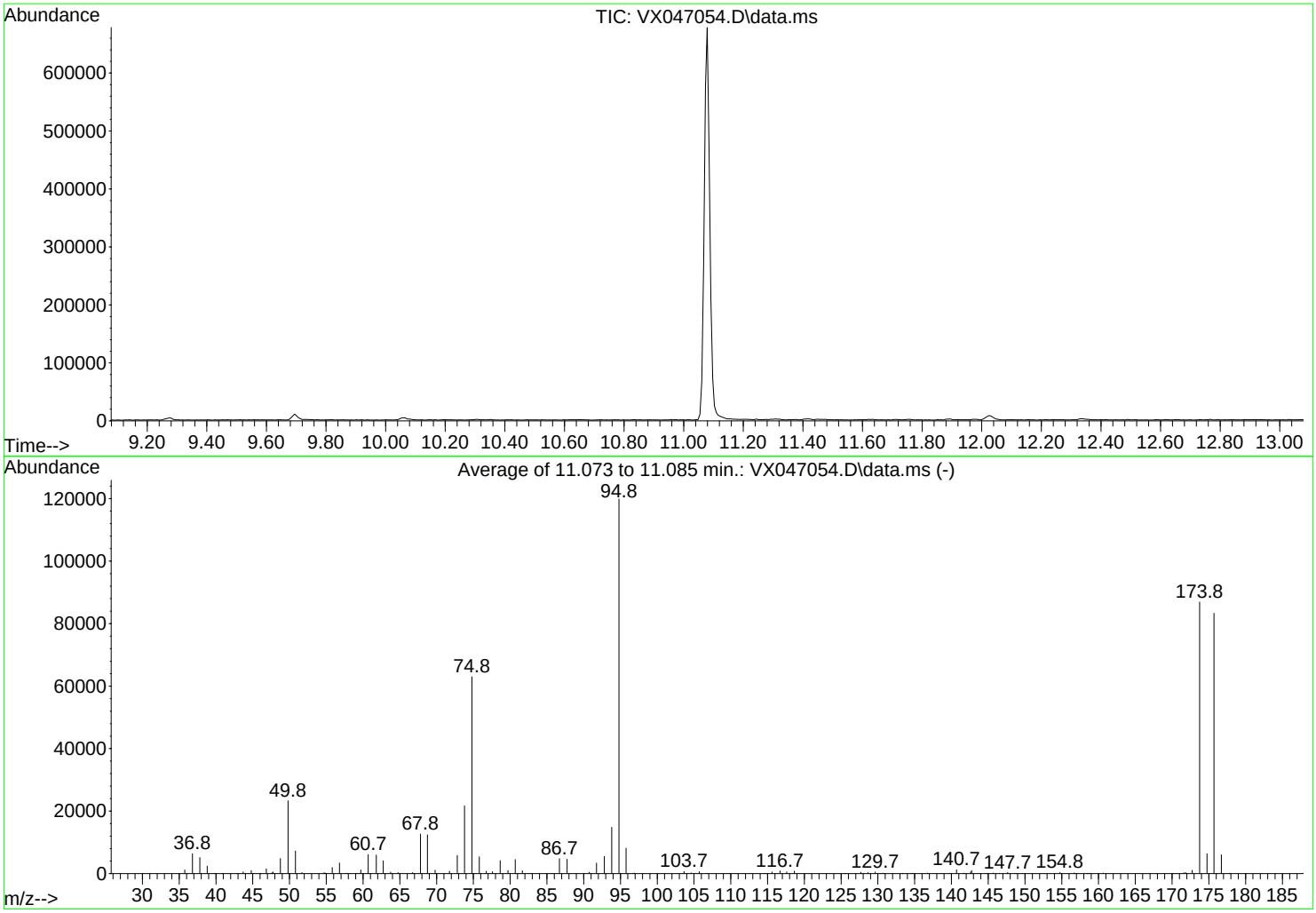
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047054.D
Acq On : 21 Jul 2025 08:53
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\82X072125W.M
Title : SW846 8260
Last Update : Tue Jul 22 03:59:51 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

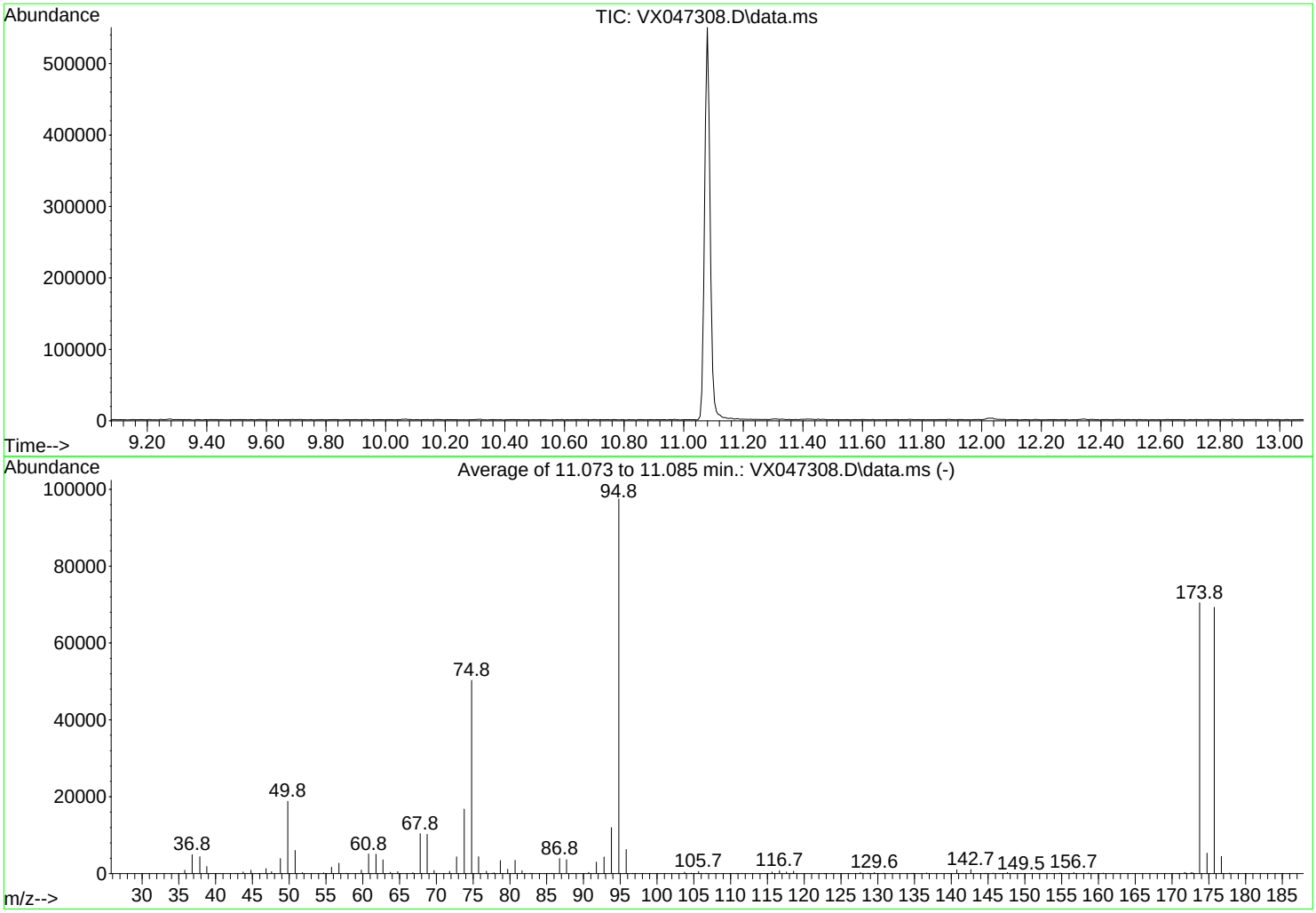
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	23312	PASS
75	95	30	60	52.5	62997	PASS
95	95	100	100	100.0	119888	PASS
96	95	5	9	6.8	8138	PASS
173	174	0.00	2	1.2	1064	PASS
174	95	50	100	72.5	86899	PASS
175	174	5	9	7.3	6373	PASS
176	174	95	101	95.9	83323	PASS
177	176	5	9	7.2	5999	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047308.D
Acq On : 13 Aug 2025 08:30
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\82X072125W.M
Title : SW846 8260
Last Update : Tue Jul 22 03:59:51 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

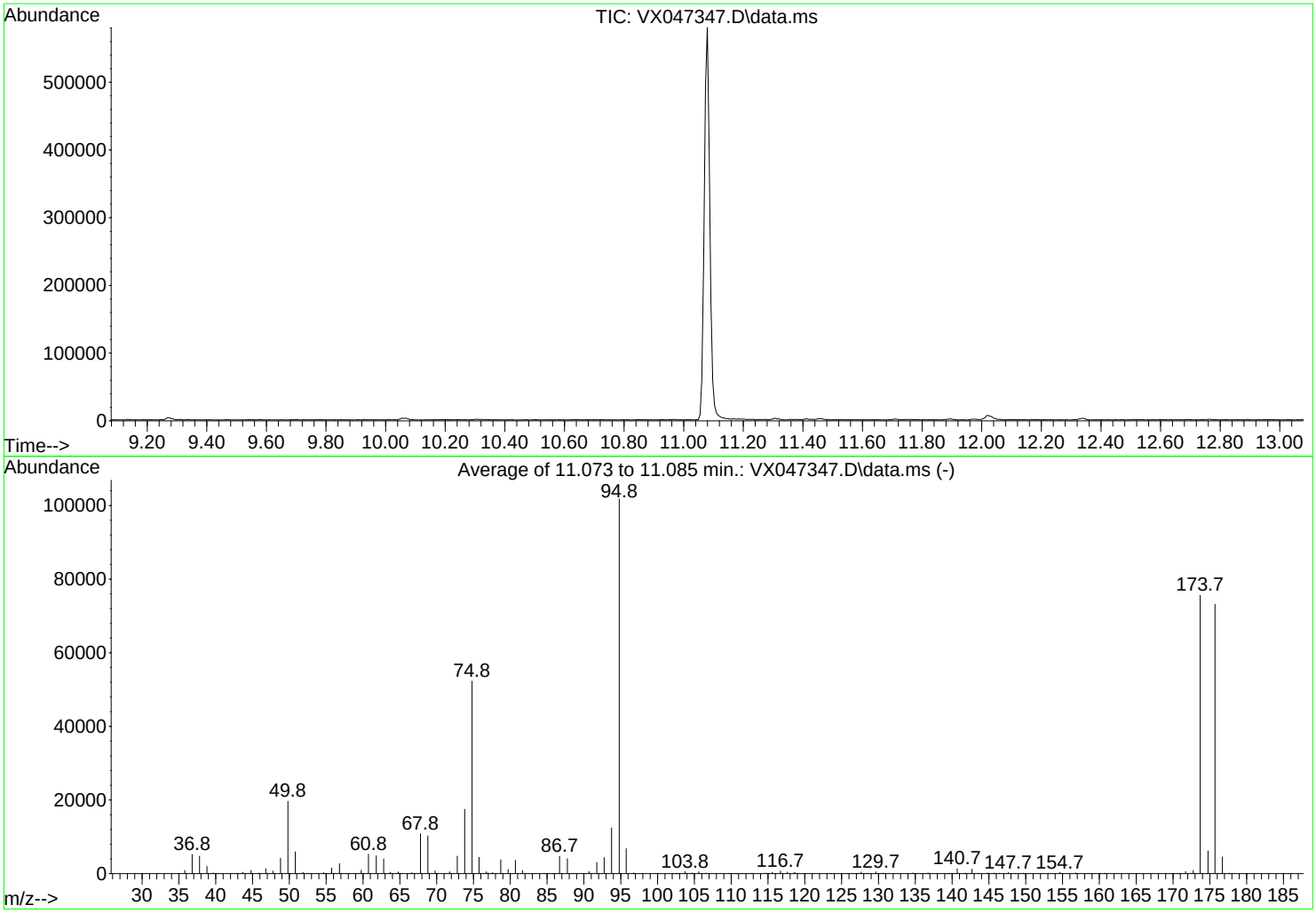
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	18818	PASS
75	95	30	60	51.6	50309	PASS
95	95	100	100	100.0	97485	PASS
96	95	5	9	6.5	6306	PASS
173	174	0.00	2	0.4	267	PASS
174	95	50	100	72.3	70472	PASS
175	174	5	9	7.6	5338	PASS
176	174	95	101	98.4	69315	PASS
177	176	5	9	6.4	4463	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047347.D
Acq On : 15 Aug 2025 08:28
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\82X081525W.M
Title : SW846 8260
Last Update : Mon Aug 18 04:18:28 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

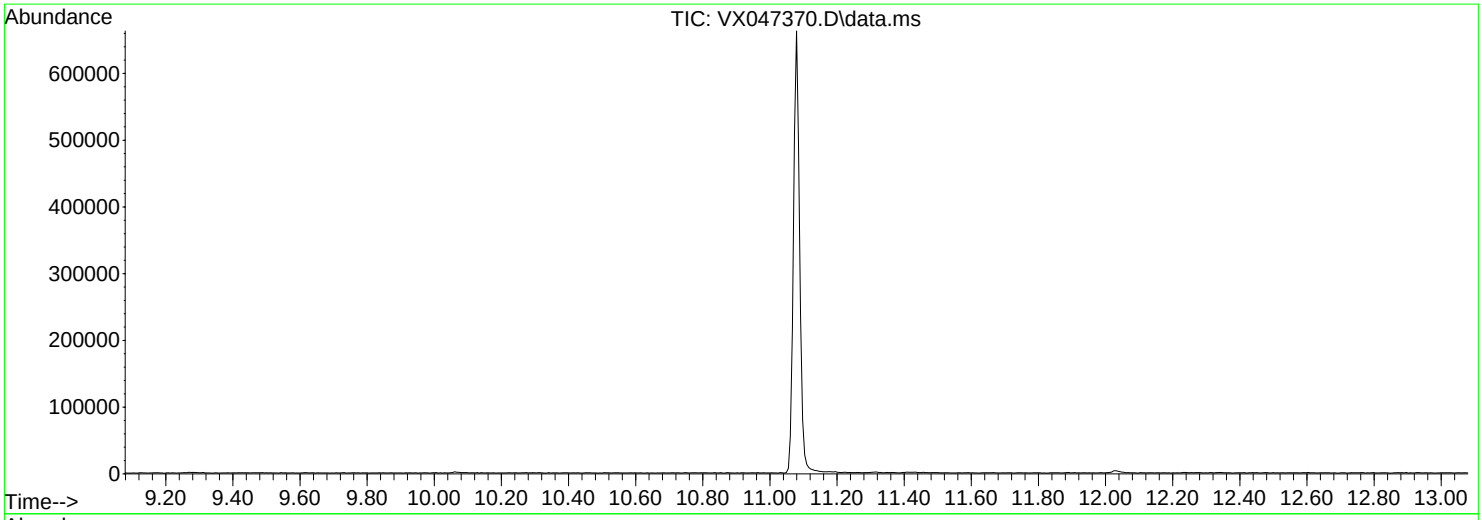
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	19650	PASS
75	95	30	60	51.4	52320	PASS
95	95	100	100	100.0	101773	PASS
96	95	5	9	6.7	6795	PASS
173	174	0.00	2	1.1	867	PASS
174	95	50	100	74.3	75603	PASS
175	174	5	9	8.2	6186	PASS
176	174	95	101	96.8	73213	PASS
177	176	5	9	6.2	4510	PASS

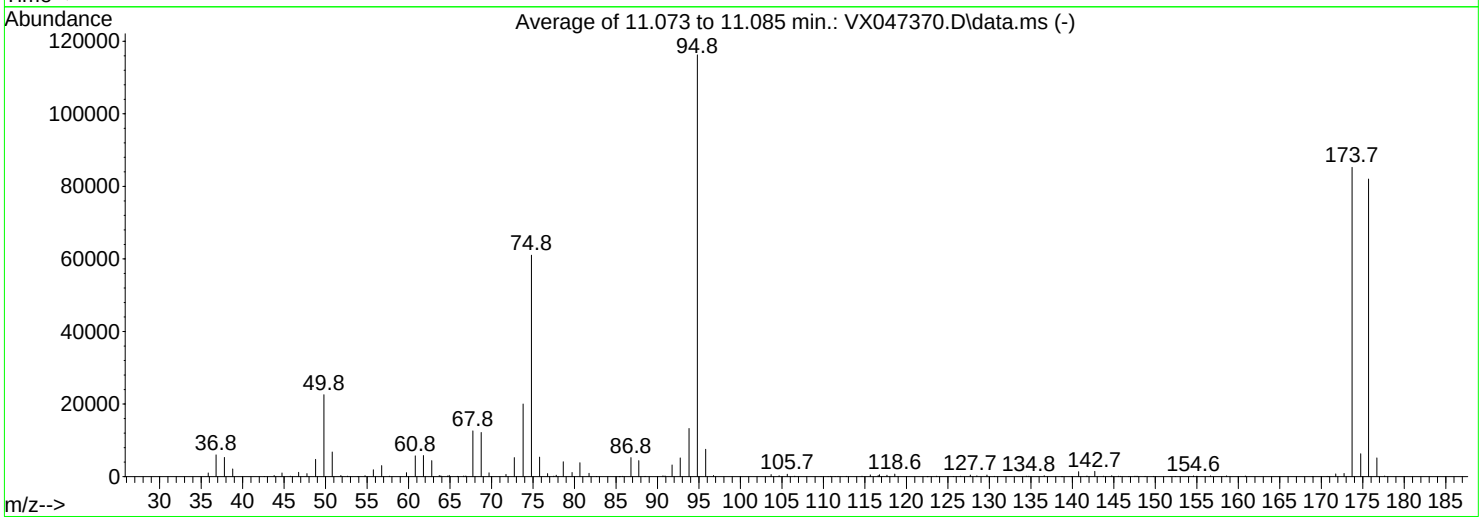
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047370.D
Acq On : 18 Aug 2025 09:32
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Title : SW846 8260
Last Update : Mon Aug 18 04:18:28 2025





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	22584	PASS
75	95	30	60	52.5	61051	PASS
95	95	100	100	100.0	116251	PASS
96	95	5	9	6.5	7552	PASS
173	174	0.00	2	1.0	866	PASS
174	95	50	100	73.3	85264	PASS
175	174	5	9	7.4	6293	PASS
176	174	95	101	96.2	82027	PASS
177	176	5	9	6.3	5172	PASS

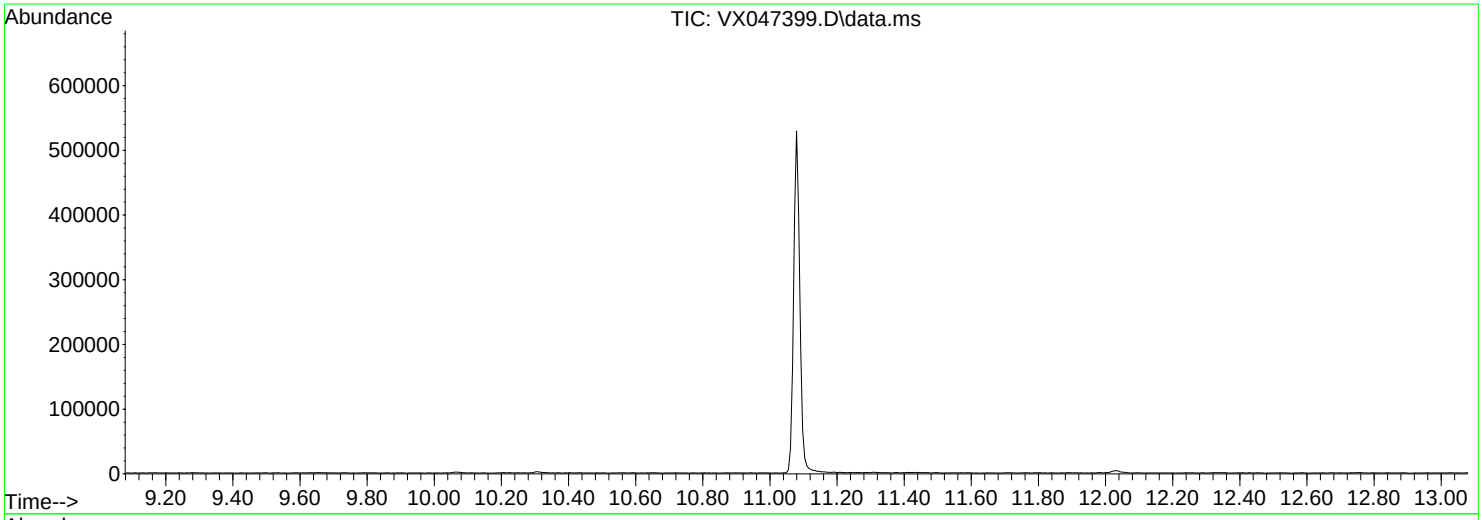
Sample Results: **VX047399.D**

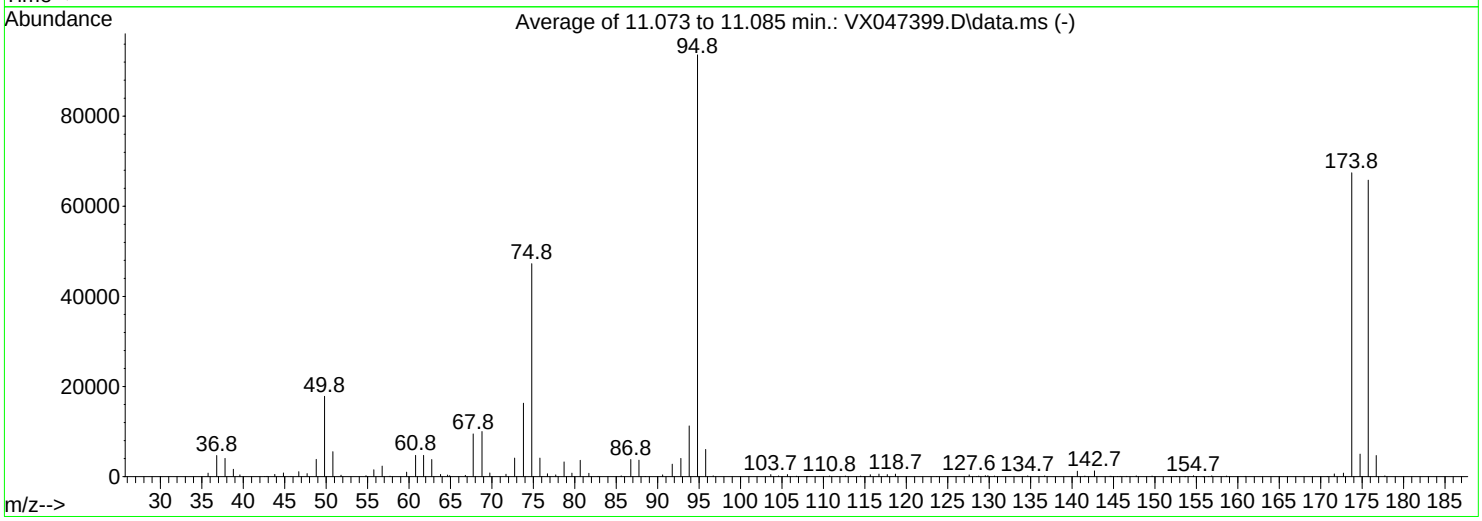
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047399.D
Acq On : 19 Aug 2025 08:38
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Title : SW846 8260
Last Update : Mon Aug 18 04:18:28 2025





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

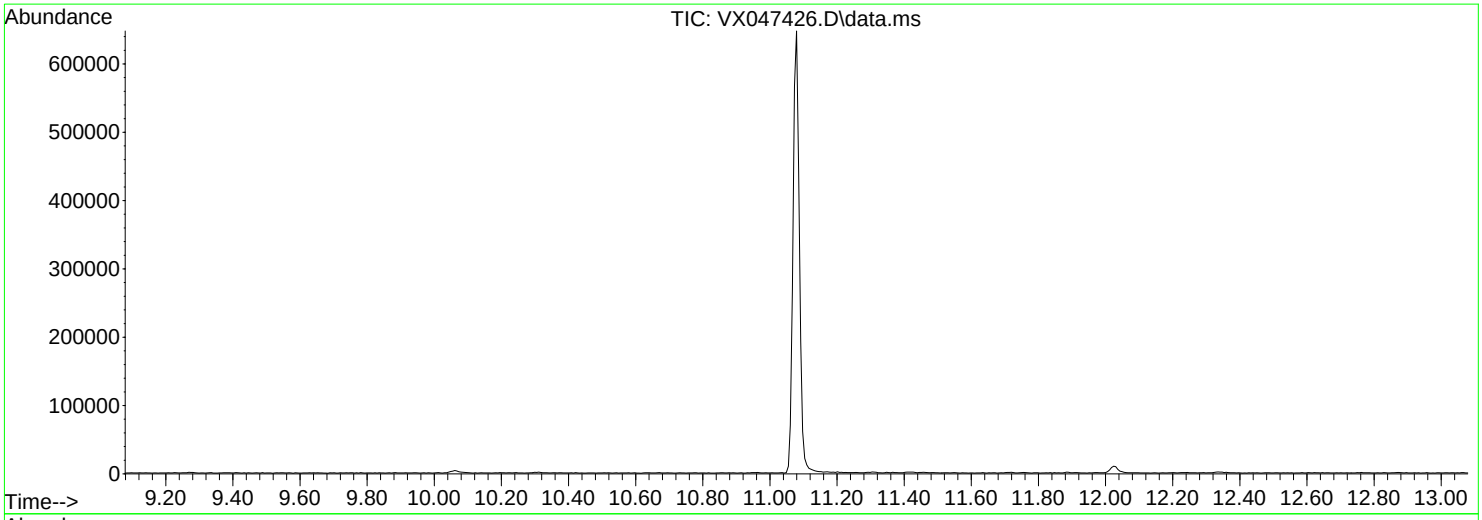
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	17812	PASS
75	95	30	60	50.5	47256	PASS
95	95	100	100	100.0	93616	PASS
96	95	5	9	6.5	6053	PASS
173	174	0.00	2	1.2	803	PASS
174	95	50	100	72.1	67451	PASS
175	174	5	9	7.4	5006	PASS
176	174	95	101	97.6	65808	PASS
177	176	5	9	7.1	4681	PASS

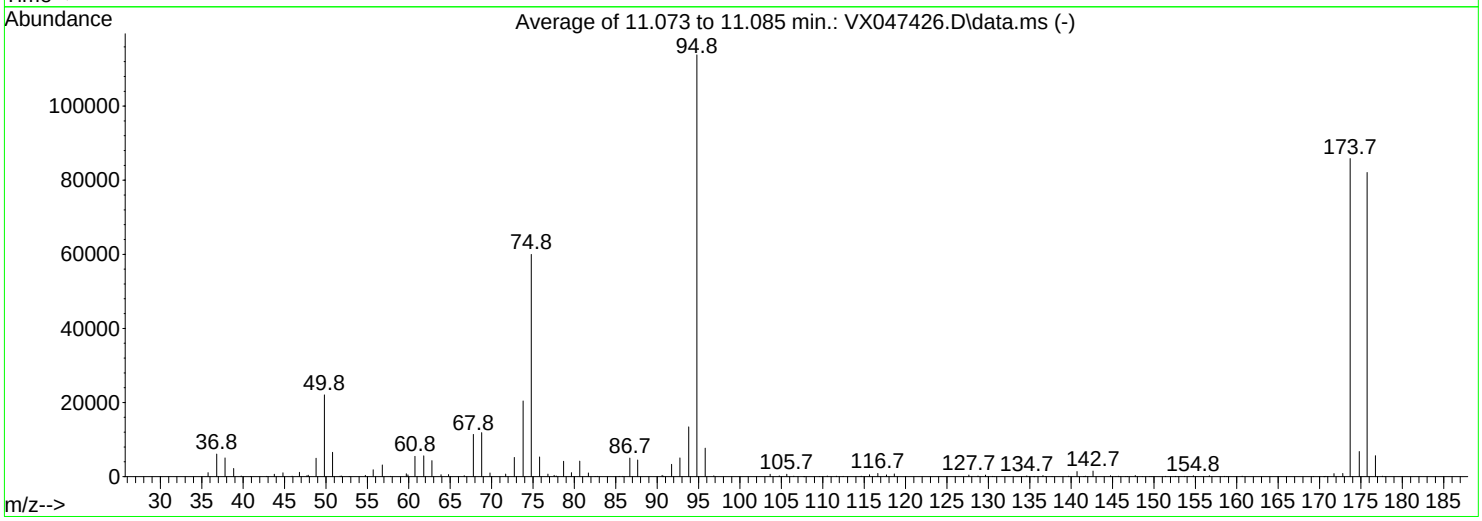
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047426.D
Acq On : 20 Aug 2025 07:50
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Title : SW846 8260
Last Update : Mon Aug 18 04:18:28 2025





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	22083	PASS
75	95	30	60	52.7	59984	PASS
95	95	100	100	100.0	113832	PASS
96	95	5	9	6.7	7668	PASS
173	174	0.00	2	1.0	862	PASS
174	95	50	100	75.4	85840	PASS
175	174	5	9	7.9	6779	PASS
176	174	95	101	95.6	82077	PASS
177	176	5	9	6.9	5652	PASS

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0813WBL01	SDG No.:	Q2815
Lab Sample ID:	VX0813WBL01	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
VX047311.D	1	08/13/25 11:02	VX081325

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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0813WBL01	SDG No.:	Q2815
Lab Sample ID:	VX0813WBL01	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
VX047311.D	1	08/13/25 11:02	VX081325

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	57.9		81 - 118		116%	SPK: 50
1868-53-7	Dibromofluoromethane	56.7		80 - 119		113%	SPK: 50
2037-26-5	Toluene-d8	47.1		89 - 112		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.6		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	202000	5.562				
540-36-3	1,4-Difluorobenzene	360000	6.763				
3114-55-4	Chlorobenzene-d5	332000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	173000	12.018				

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0813WBL01	SDG No.:	Q2815
Lab Sample ID:	VX0813WBL01	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
VX047311.D	1	08/13/25 11:02	VX081325

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\VX081325\
Data File : VX047311.D
Acq On : 13 Aug 2025 11:02
Operator : JC/MD
Sample : VX0813WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBL01

Quant Time: Aug 14 03:24:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

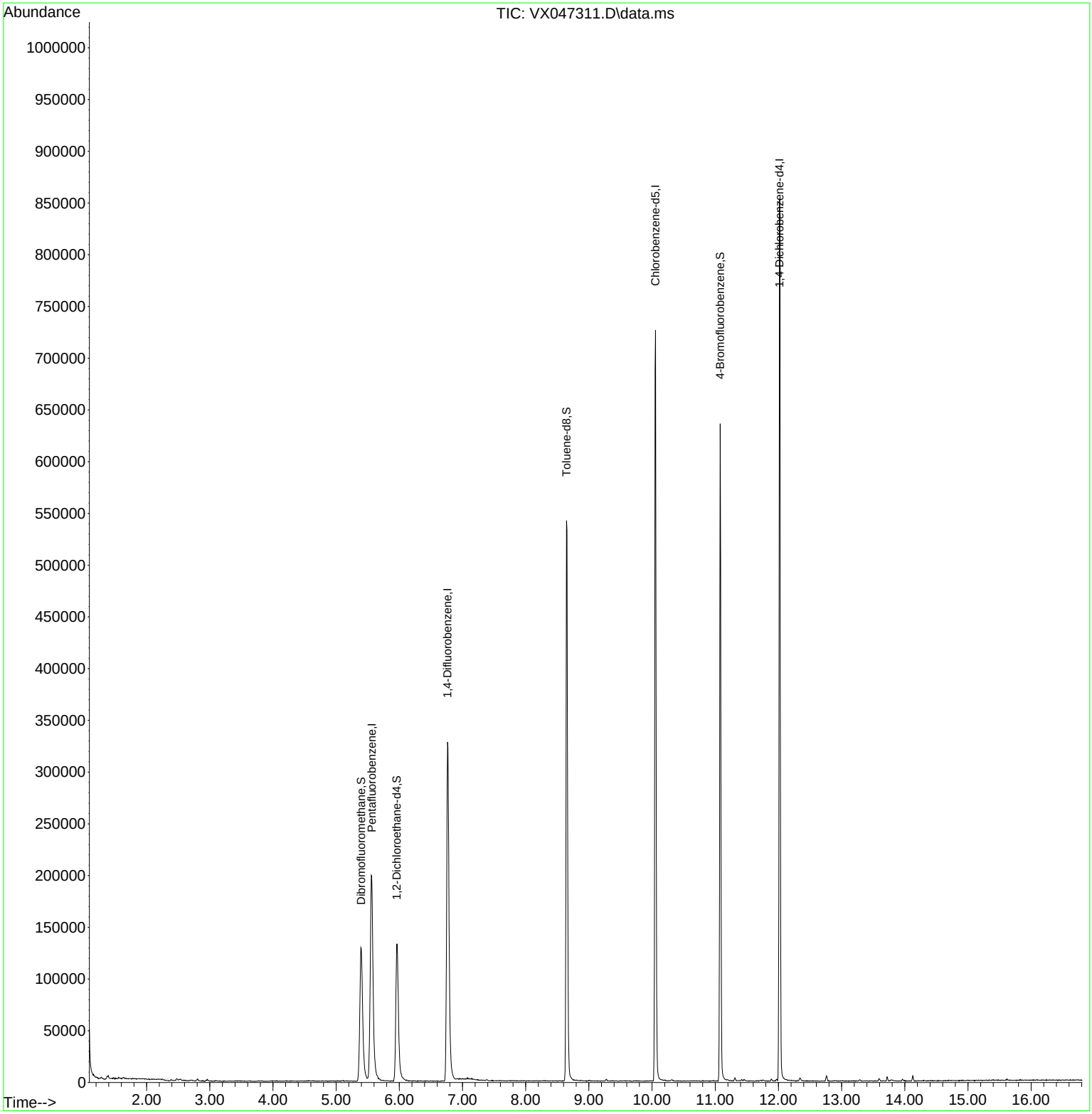
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	202155	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	360108	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	331541	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	172532	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	145798	57.897	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 115.800%			
35) Dibromofluoromethane	5.397	113	126048	56.691	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.380%			
50) Toluene-d8	8.647	98	338862	47.061	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 94.120%			
62) 4-Bromofluorobenzene	11.079	95	166185	53.556	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.120%			
Target Compounds						Qvalue

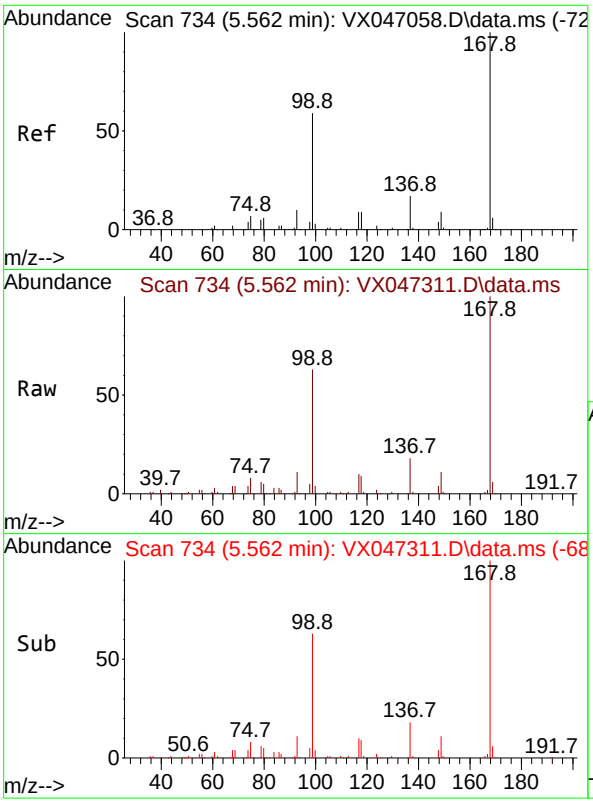
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047311.D
Acq On : 13 Aug 2025 11:02
Operator : JC/MD
Sample : VX0813WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBL01

Quant Time: Aug 14 03:24:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration



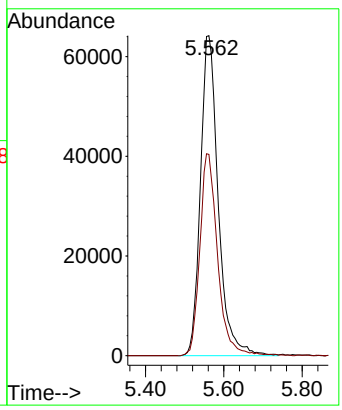


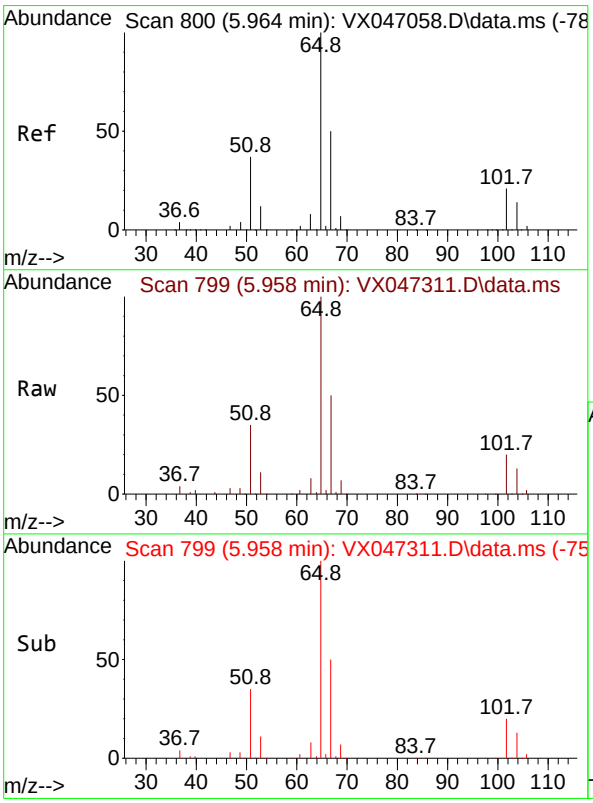
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047311.D
Acq: 13 Aug 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBL01

Tgt Ion:168 Resp: 202155

Ion	Ratio	Lower	Upper
168	100		
99	62.9	48.0	72.0

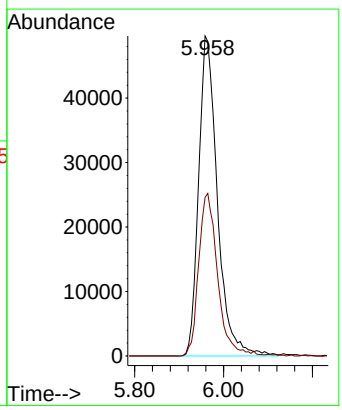


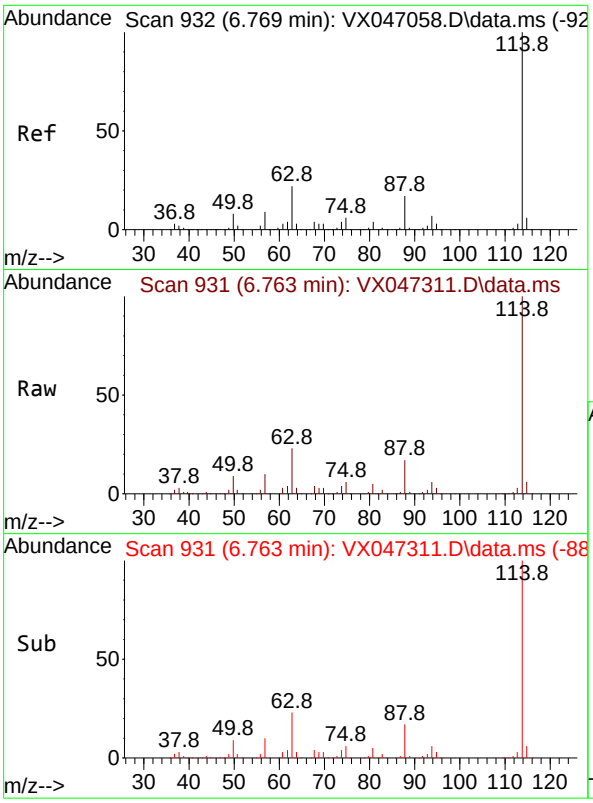


#33
1,2-Dichloroethane-d4
Concen: 57.897 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX047311.D
Acq: 13 Aug 2025 11:02

Tgt Ion: 65 Resp: 145798

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	104.8



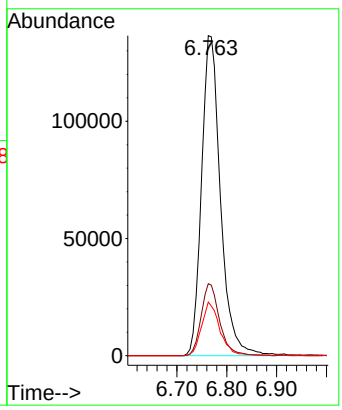


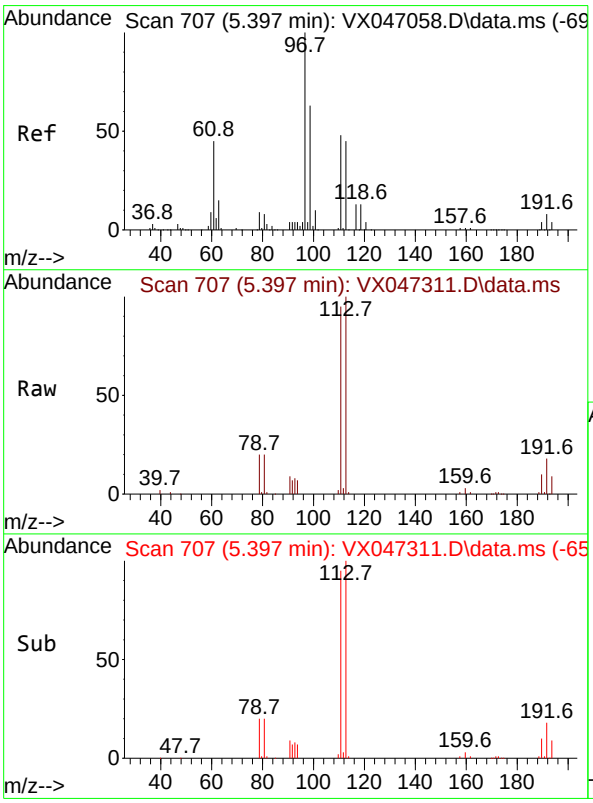
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 9
Delta R.T. -0.006 min
Lab File: VX047311.D
Acq: 13 Aug 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBL01

Tgt Ion:114 Resp: 360108

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	43.2
88	16.7	0.0	33.8

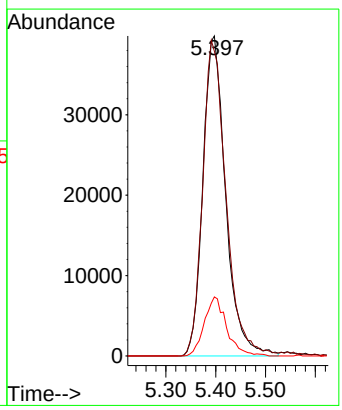


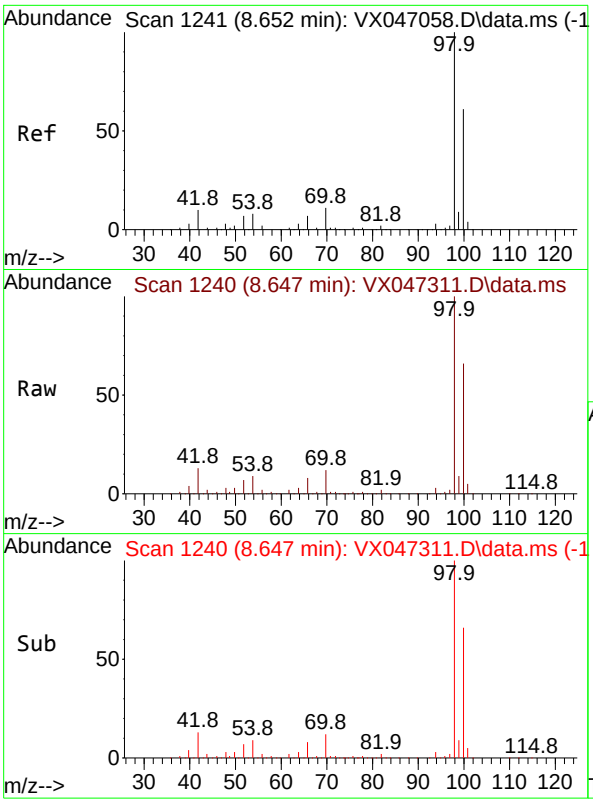


#35
Dibromofluoromethane
Concen: 56.691 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047311.D
Acq: 13 Aug 2025 11:02

Tgt Ion:113 Resp: 126048

Ion	Ratio	Lower	Upper
113	100		
111	101.0	82.6	124.0
192	18.2	14.9	22.3



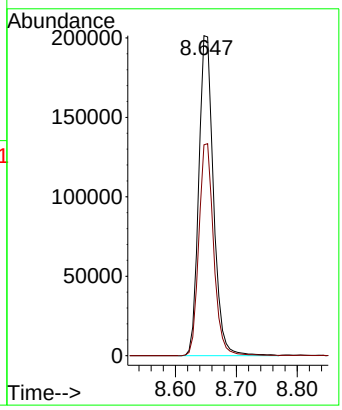


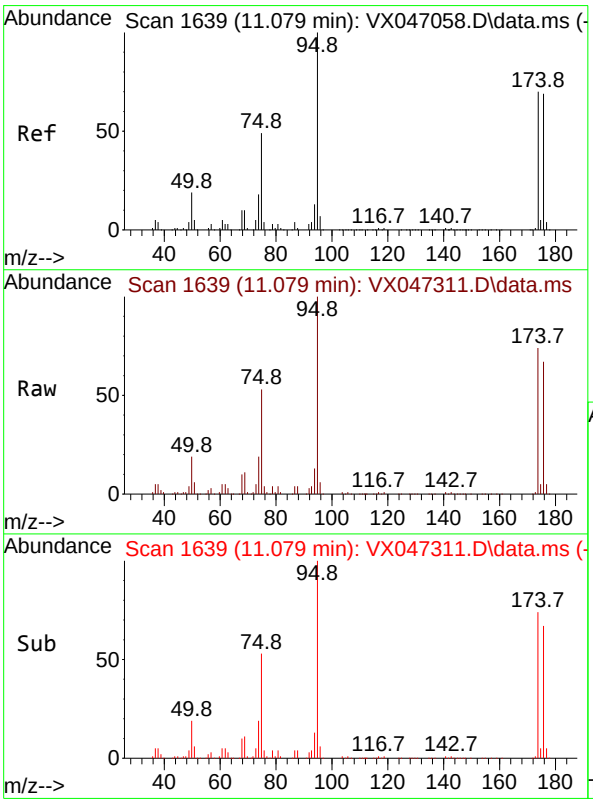
#50
Toluene-d8
Concen: 47.061 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047311.D
Acq: 13 Aug 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBL01

Tgt Ion: 98 Resp: 338862

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.3	79.9

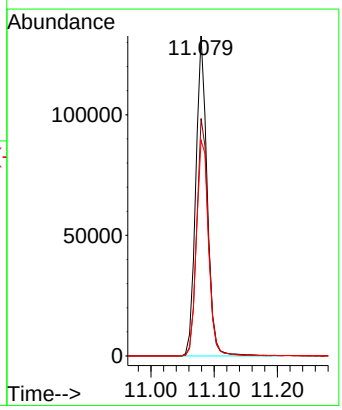


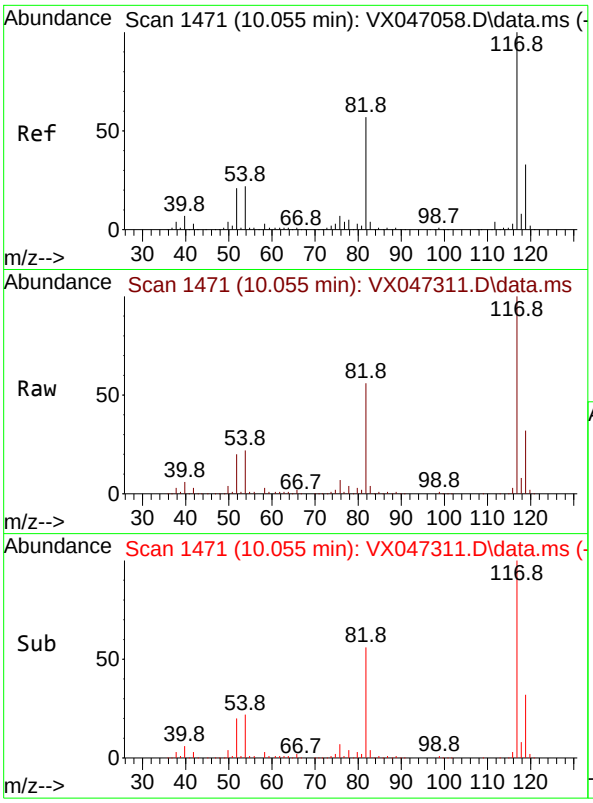


#62
4-Bromofluorobenzene
Concen: 53.556 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047311.D
Acq: 13 Aug 2025 11:02

Tgt Ion: 95 Resp: 166185

Ion	Ratio	Lower	Upper
95	100		
174	76.1	0.0	144.6
176	71.7	0.0	139.6



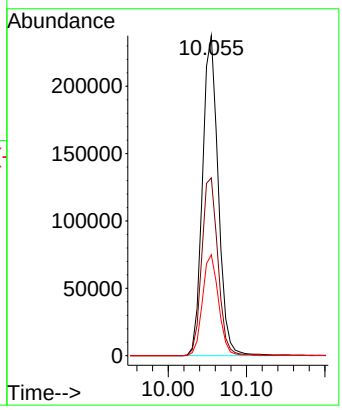


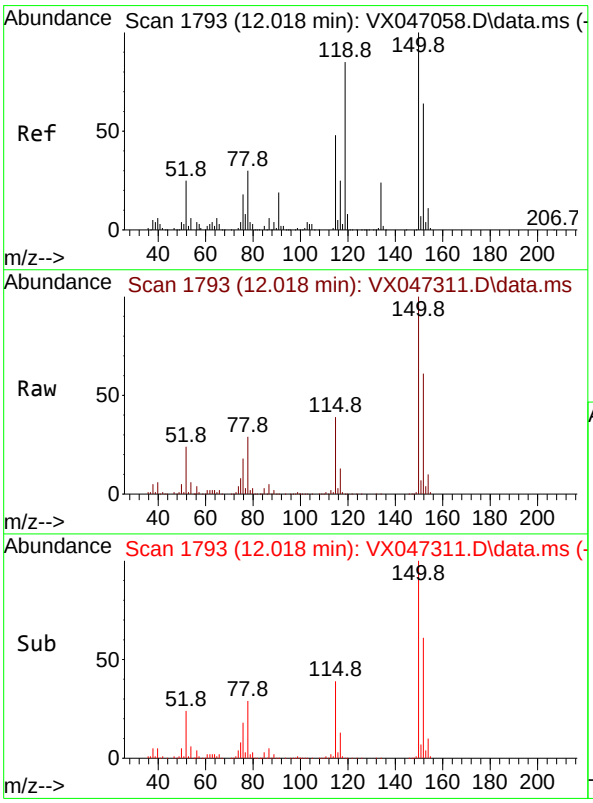
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047311.D
Acq: 13 Aug 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBL01

Tgt Ion:117 Resp: 331541

Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.4	68.2
119	31.6	26.1	39.1

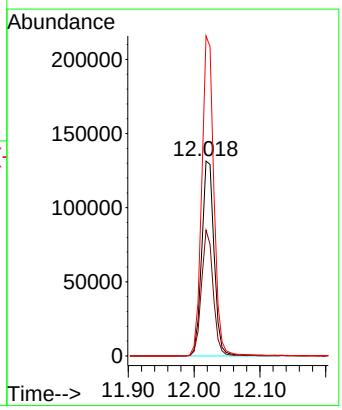




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047311.D
Acq: 13 Aug 2025 11:02

Tgt Ion:152 Resp: 172532

Ion	Ratio	Lower	Upper
152	100		
115	61.3	45.6	136.7
150	160.3	0.0	354.6



Sample Results: **VX047311.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047311.D
Acq On : 13 Aug 2025 11:02
Operator : JC/MD
Sample : VX0813WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBL01

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\82X072125W.M
Title : SW846 8260

Signal : TIC: VX047311.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.391	695	706	723	rBV5	129132	413124	38.41%	6.751%
2	5.556	723	733	753	rVB	197154	609804	56.69%	9.966%
3	5.964	790	800	823	rBV	132762	396905	36.90%	6.486%
4	6.763	922	931	950	rBV	327737	857766	79.74%	14.018%
5	8.647	1231	1240	1258	rBV	541751	918016	85.34%	15.003%
6	10.055	1465	1471	1484	rBV	725809	1041590	96.83%	17.022%
7	11.079	1633	1639	1651	rBV	635479	806156	74.94%	13.175%
8	12.018	1788	1793	1808	rBV	852141	1075677	100.00%	17.579%

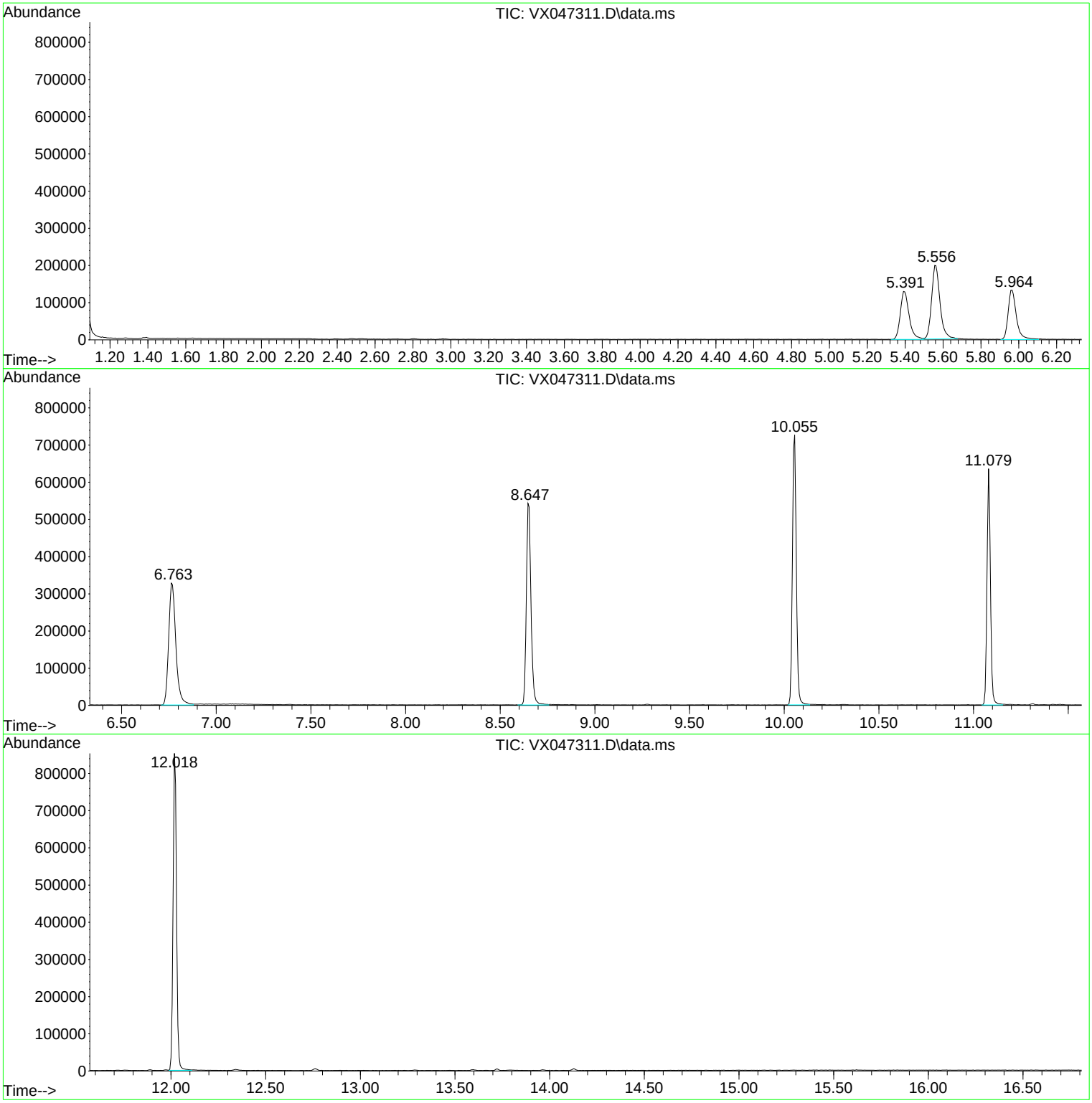
Sum of corrected areas: 6119038

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047311.D
Acq On : 13 Aug 2025 11:02
Operator : JC/MD
Sample : VX0813WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047311.D
Acq On : 13 Aug 2025 11:02
Operator : JC/MD
Sample : VX0813WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.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\VX081325\
Data File : VX047311.D
Acq On : 13 Aug 2025 11:02
Operator : JC/MD
Sample : VX0813WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.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:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0818WBL01	SDG No.:	Q2815
Lab Sample ID:	VX0818WBL01	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
VX047373.D	1	08/18/25 11:50	VX081825

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:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0818WBL01	SDG No.:	Q2815
Lab Sample ID:	VX0818WBL01	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
VX047373.D	1	08/18/25 11:50	VX081825

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	54.1		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.2		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.1		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	325000	5.562				
540-36-3	1,4-Difluorobenzene	631000	6.763				
3114-55-4	Chlorobenzene-d5	620000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	309000	12.018				

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0818WBL01	SDG No.:	Q2815
Lab Sample ID:	VX0818WBL01	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
VX047373.D	1	08/18/25 11:50	VX081825

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\VX081825\
Data File : VX047373.D
Acq On : 18 Aug 2025 11:50
Operator : JC/MD
Sample : VX0818WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBL01

Quant Time: Aug 19 01:38:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

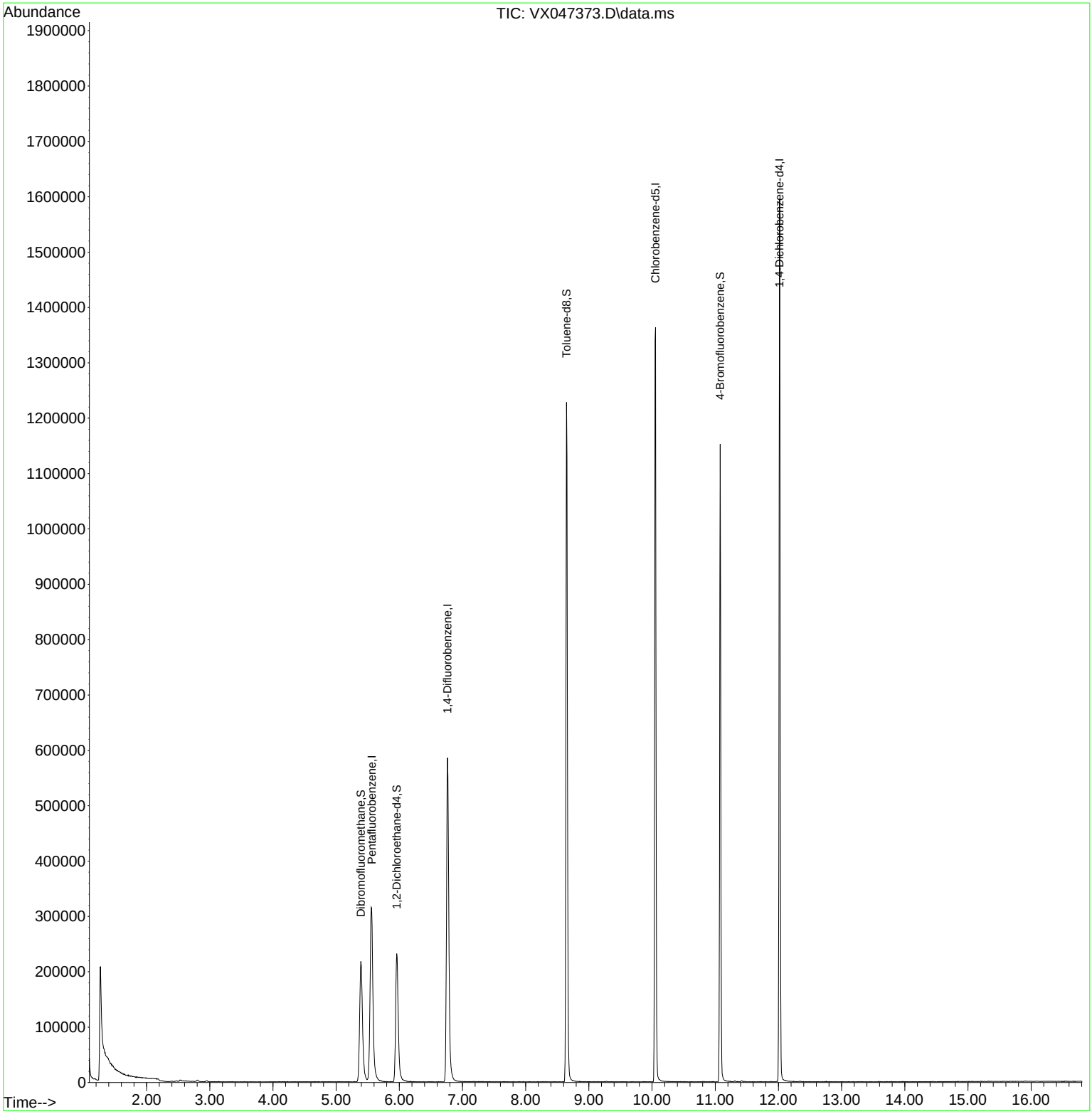
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	325331	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	630884	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	620229	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	309313	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	246116	54.054	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.100%			
35) Dibromofluoromethane	5.391	113	208435	50.906	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.820%			
50) Toluene-d8	8.647	98	734400	50.182	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.360%			
62) 4-Bromofluorobenzene	11.079	95	302912	56.089	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 112.180%			
Target Compounds						Qvalue

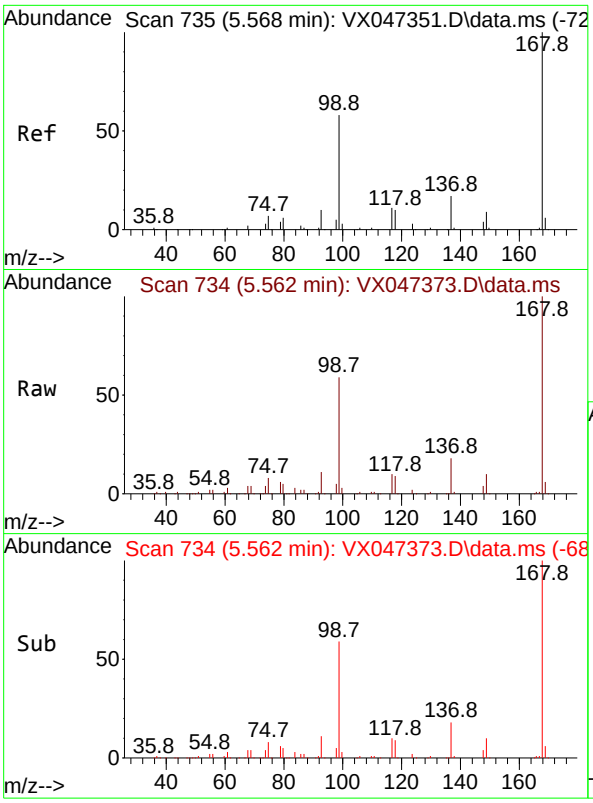
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047373.D
Acq On : 18 Aug 2025 11:50
Operator : JC/MD
Sample : VX0818WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBL01

Quant Time: Aug 19 01:38:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



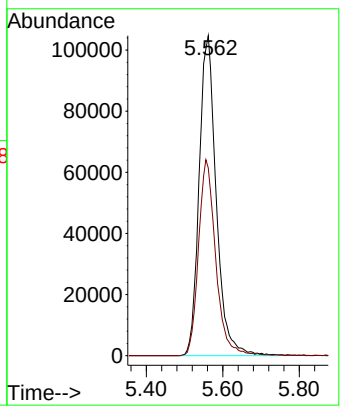


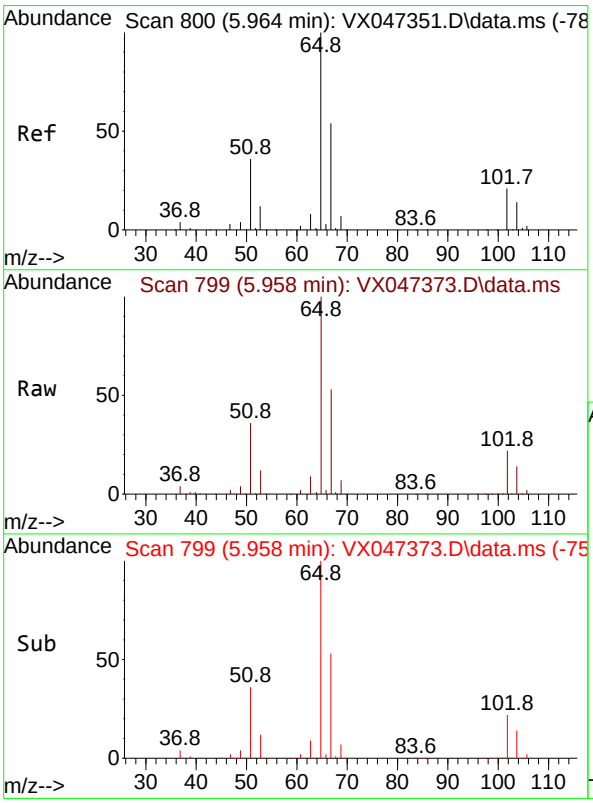
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047373.D
Acq: 18 Aug 2025 11:50

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBL01

Tgt Ion:168 Resp: 325331

Ion	Ratio	Lower	Upper
168	100		
99	58.7	47.9	71.9

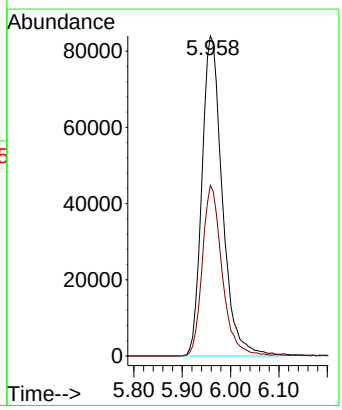


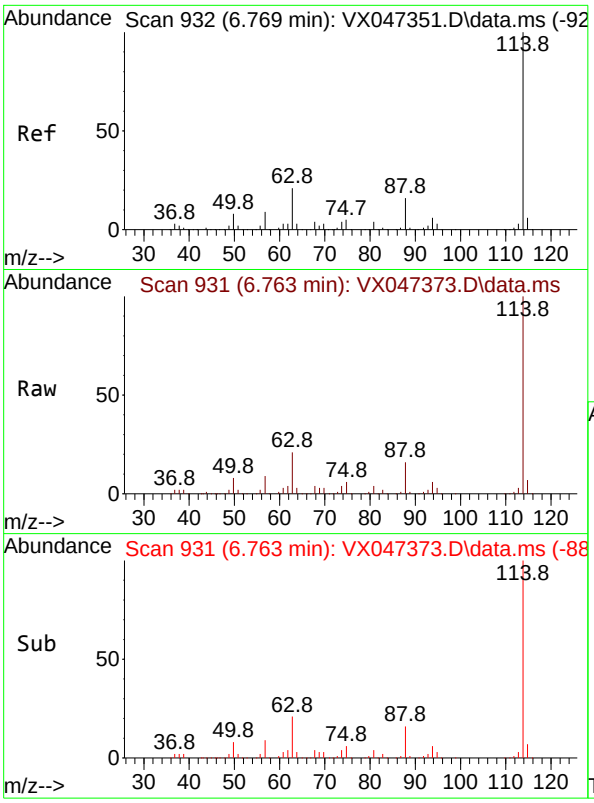


#33
1,2-Dichloroethane-d4
Concen: 54.054 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX047373.D
Acq: 18 Aug 2025 11:50

Tgt Ion: 65 Resp: 246116

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	106.0



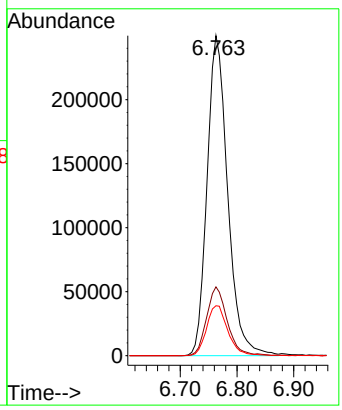


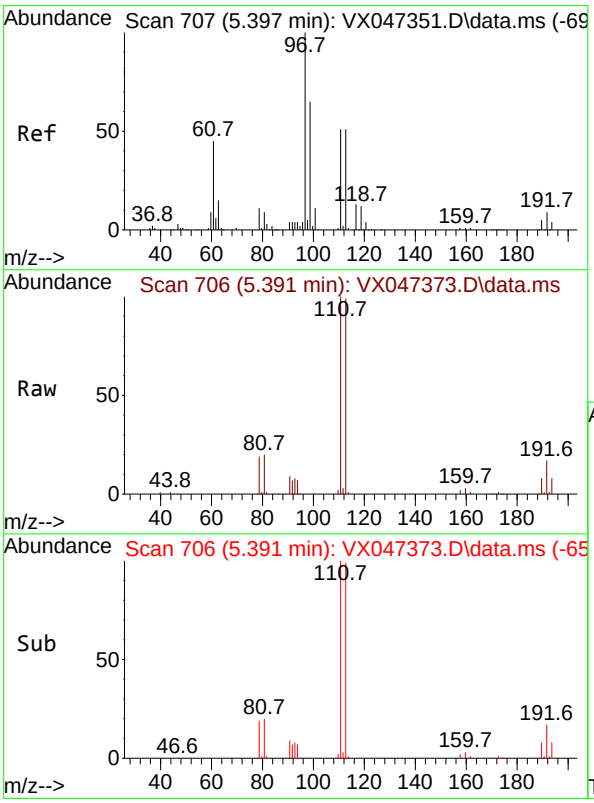
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 9
Delta R.T. -0.006 min
Lab File: VX047373.D
Acq: 18 Aug 2025 11:50

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBL01

Tgt Ion:114 Resp: 630884

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	42.4
88	15.6	0.0	33.0

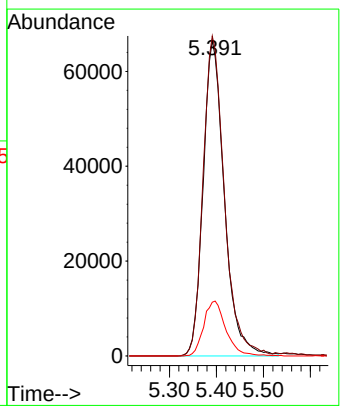


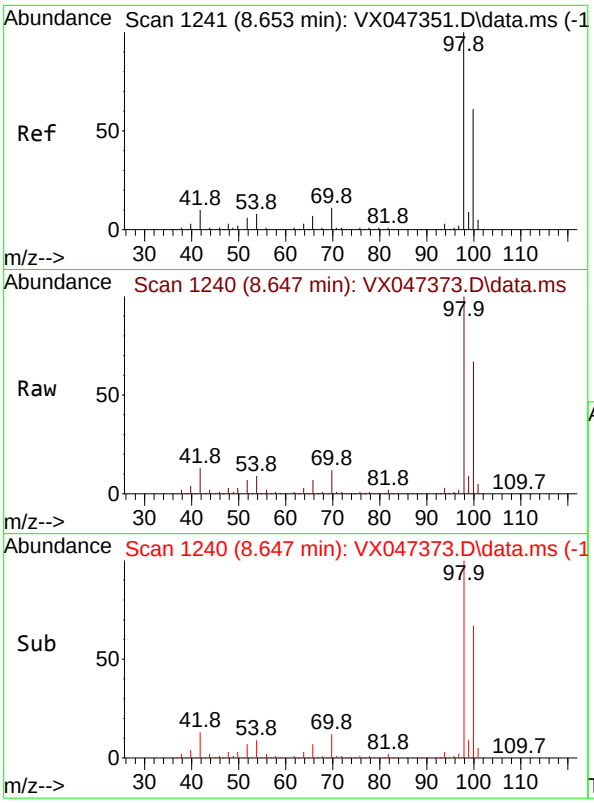


#35
Dibromofluoromethane
Concen: 50.906 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047373.D
Acq: 18 Aug 2025 11:50

Tgt Ion:113 Resp: 208435

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.4	122.2
192	18.2	14.1	21.1



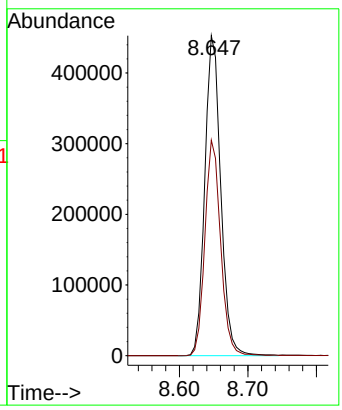


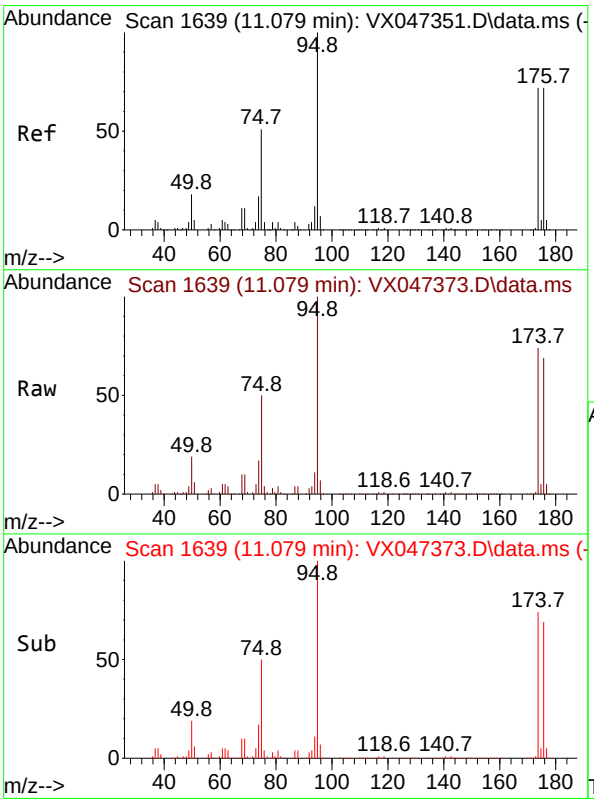
#50
Toluene-d8
Concen: 50.182 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047373.D
Acq: 18 Aug 2025 11:50

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBL01

Tgt Ion: 98 Resp: 734400

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.9	80.9

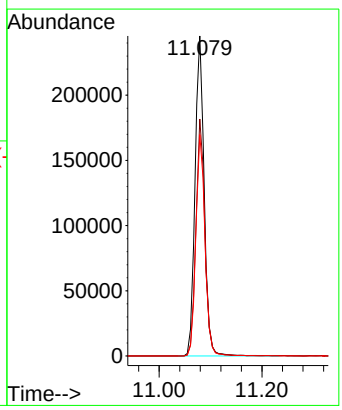


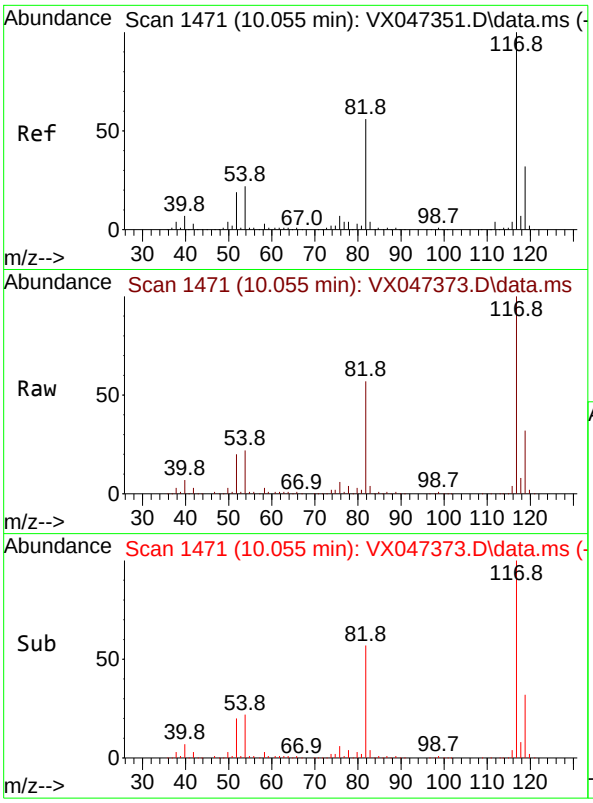


#62
4-Bromofluorobenzene
Concen: 56.089 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX047373.D
Acq: 18 Aug 2025 11:50

Tgt Ion: 95 Resp: 302912

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	148.0
176	69.2	0.0	145.4



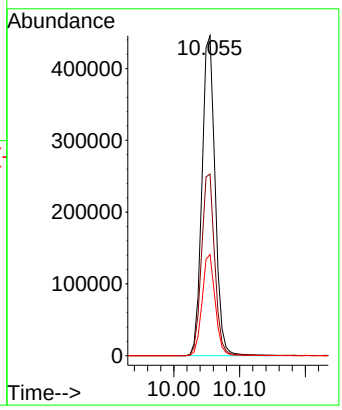


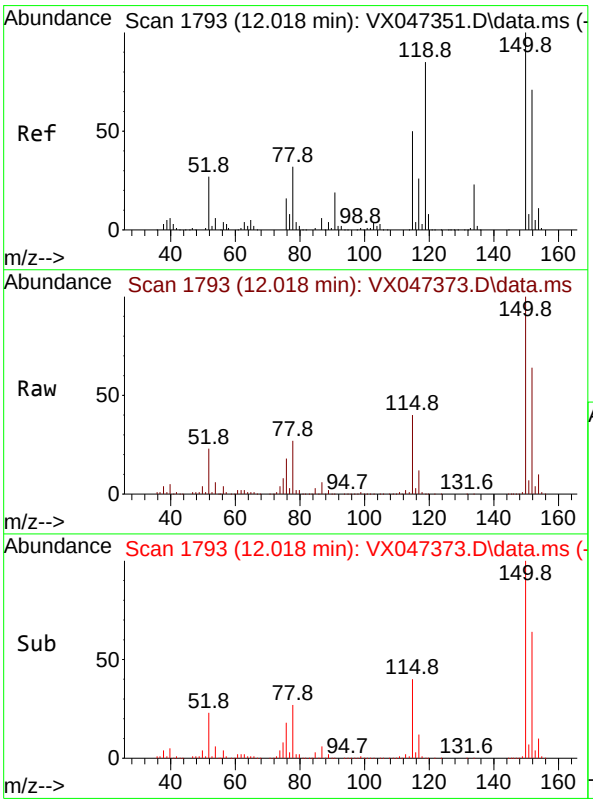
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047373.D
Acq: 18 Aug 2025 11:50

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBL01

Tgt Ion:117 Resp: 620229

Ion	Ratio	Lower	Upper
117	100		
82	56.7	45.0	67.4
119	31.6	25.8	38.8

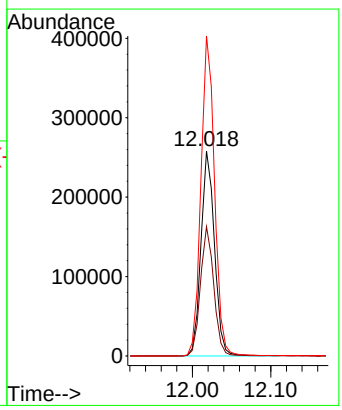




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX047373.D
Acq: 18 Aug 2025 11:50

Tgt Ion:152 Resp: 309313

Ion	Ratio	Lower	Upper
152	100		
115	62.8	44.6	133.8
150	157.1	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047373.D
Acq On : 18 Aug 2025 11:50
Operator : JC/MD
Sample : VX0818WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBL01

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047373.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.270	24	30	55	rBV	204938	757724	38.16%	6.391%
2	5.391	695	706	722	rBV3	217329	683282	34.41%	5.763%
3	5.556	722	733	754	rVB2	313039	984611	49.59%	8.304%
4	5.958	790	799	819	rBV	231338	668200	33.65%	5.636%
5	6.763	921	931	955	rBV	585476	1505315	75.81%	12.696%
6	8.647	1234	1240	1258	rBV	1227147	1985543	100.00%	16.746%
7	10.055	1465	1471	1488	rBV	1362737	1932188	97.31%	16.296%
8	11.079	1634	1639	1652	rBV	1151426	1425617	71.80%	12.023%
9	12.018	1788	1793	1807	rBV	1594125	1914468	96.42%	16.146%

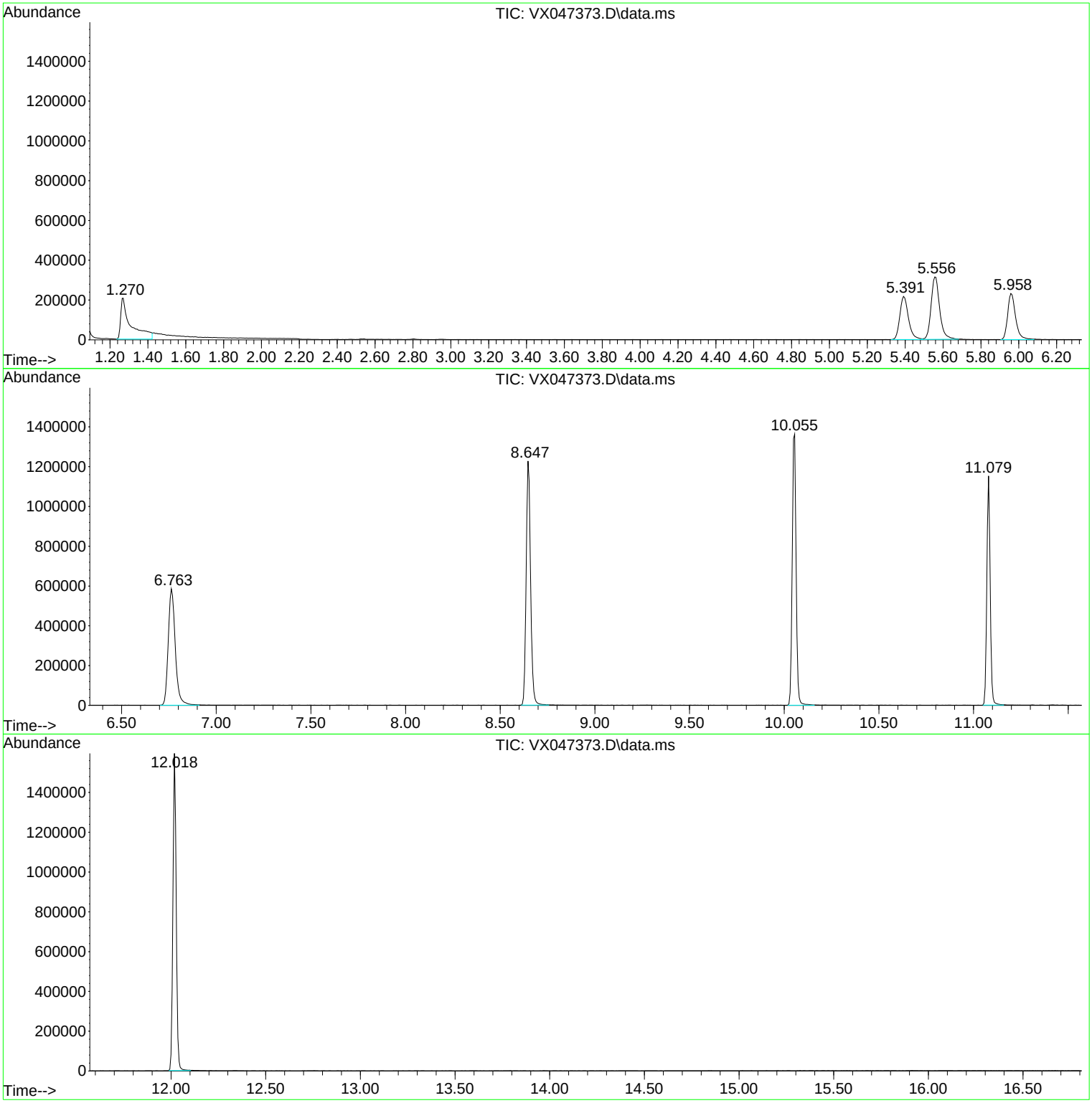
Sum of corrected areas: 11856948

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047373.D
Acq On : 18 Aug 2025 11:50
Operator : JC/MD
Sample : VX0818WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047373.D
Acq On : 18 Aug 2025 11:50
Operator : JC/MD
Sample : VX0818WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081825\
Data File : VX047373.D
Acq On : 18 Aug 2025 11:50
Operator : JC/MD
Sample : VX0818WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0819WBL01	SDG No.:	Q2815
Lab Sample ID:	VX0819WBL01	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
VX047402.D	1	08/19/25 10:55	VX081925

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:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0819WBL01	SDG No.:	Q2815
Lab Sample ID:	VX0819WBL01	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
VX047402.D	1	08/19/25 10:55	VX081925

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	57.2		81 - 118		114%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.5		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.1		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	205000	5.562				
540-36-3	1,4-Difluorobenzene	411000	6.763				
3114-55-4	Chlorobenzene-d5	416000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	213000	12.018				

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0819WBL01	SDG No.:	Q2815
Lab Sample ID:	VX0819WBL01	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
VX047402.D	1	08/19/25 10:55	VX081925

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047402.D
Acq On : 19 Aug 2025 10:55
Operator : JC/MD
Sample : VX0819WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

Quant Time: Aug 19 11:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	204625	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	410508	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	416324	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	212865	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	163941	57.246	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 114.500%			
35) Dibromofluoromethane	5.391	113	135590	50.893	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.780%			
50) Toluene-d8	8.647	98	471489	49.512	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.020%			
62) 4-Bromofluorobenzene	11.079	95	197272	56.138	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 112.280%			

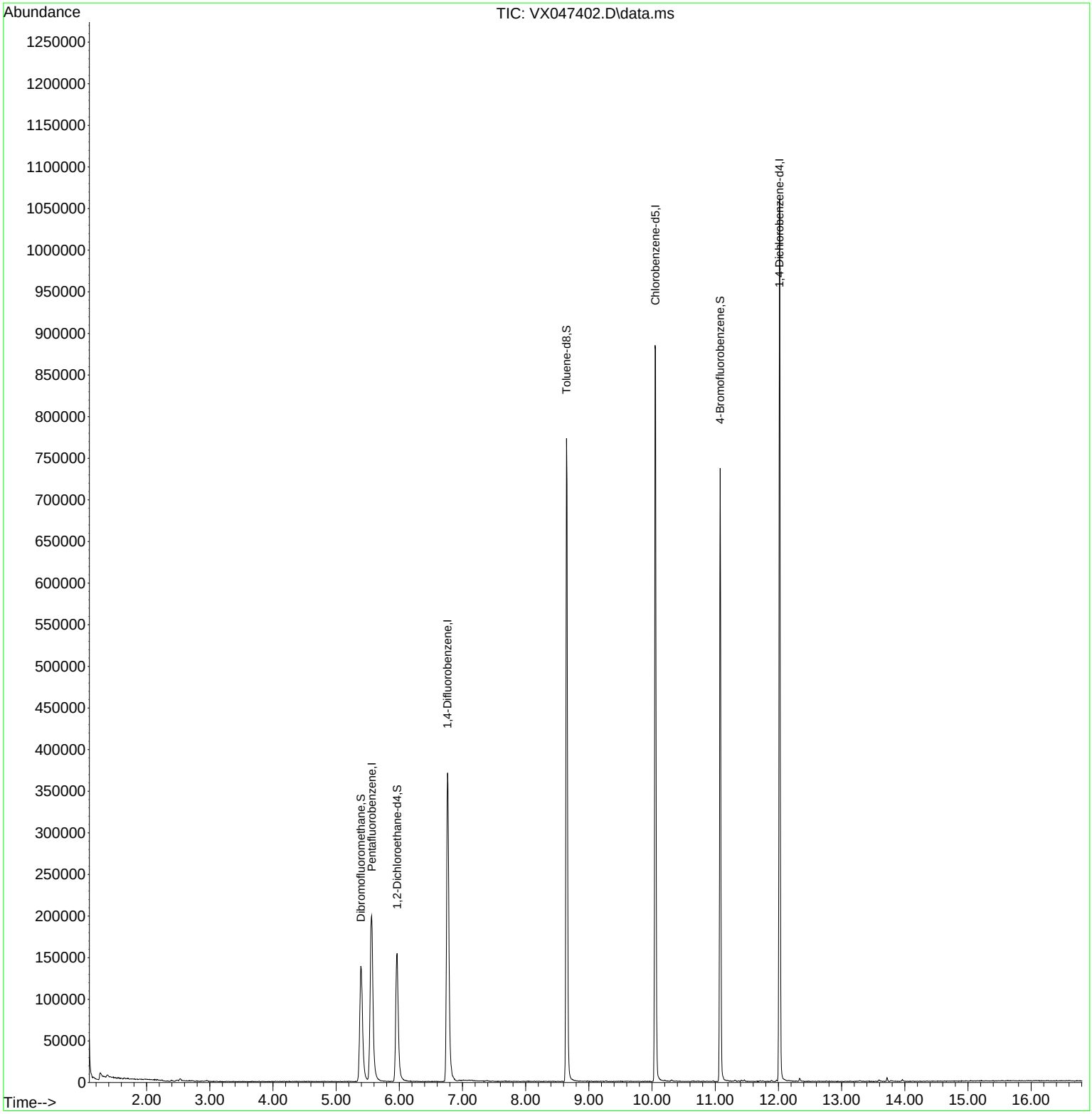
Target Compounds Qvalue

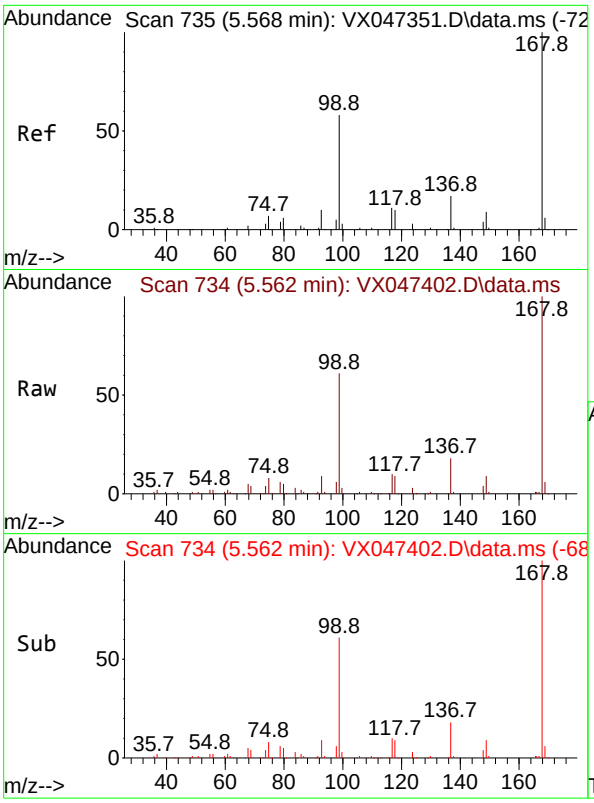
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047402.D
Acq On : 19 Aug 2025 10:55
Operator : JC/MD
Sample : VX0819WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

Quant Time: Aug 19 11:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



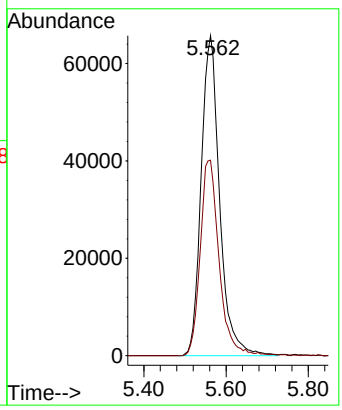


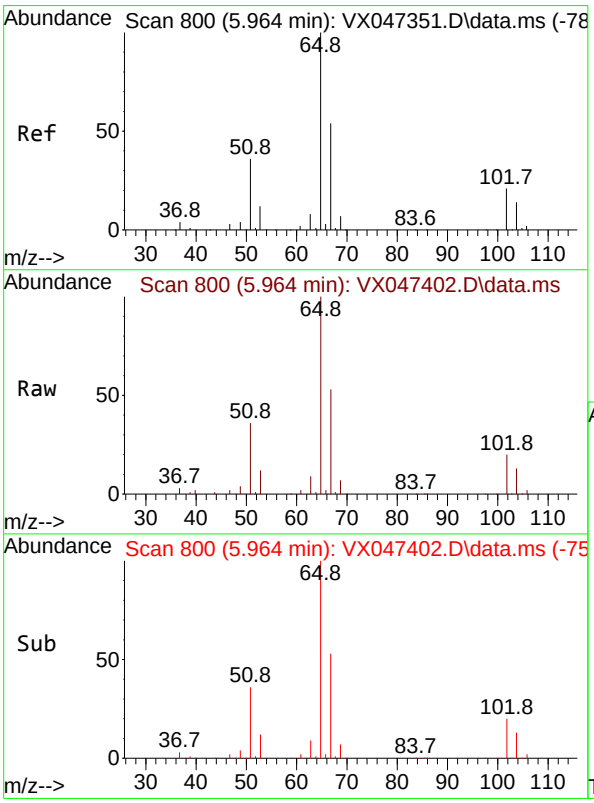
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047402.D
Acq: 19 Aug 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

Tgt Ion:168 Resp: 204625

Ion	Ratio	Lower	Upper
168	100		
99	61.1	47.9	71.9

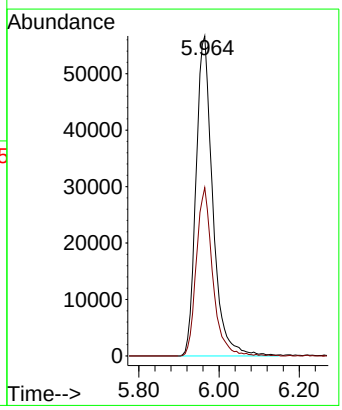


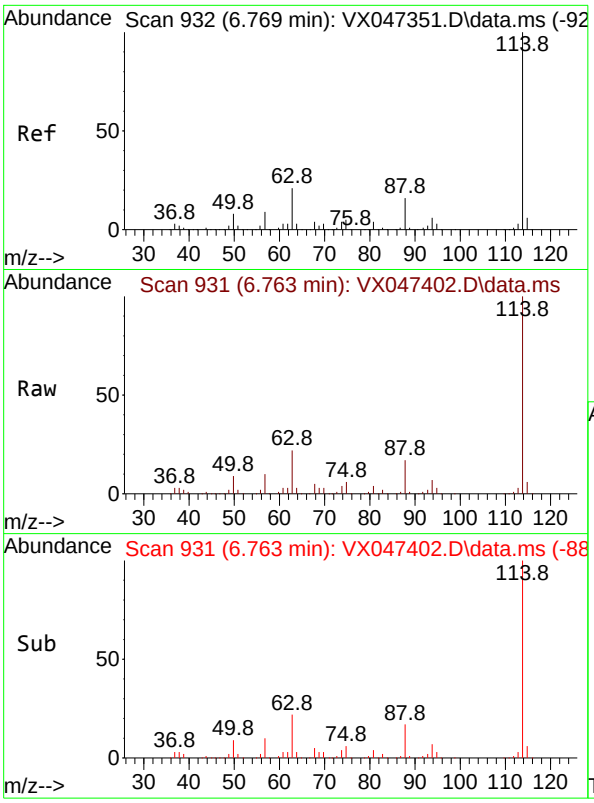


#33
1,2-Dichloroethane-d4
Concen: 57.246 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047402.D
Acq: 19 Aug 2025 10:55

Tgt Ion: 65 Resp: 163941

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	106.0



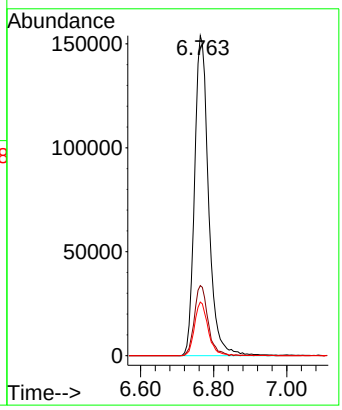


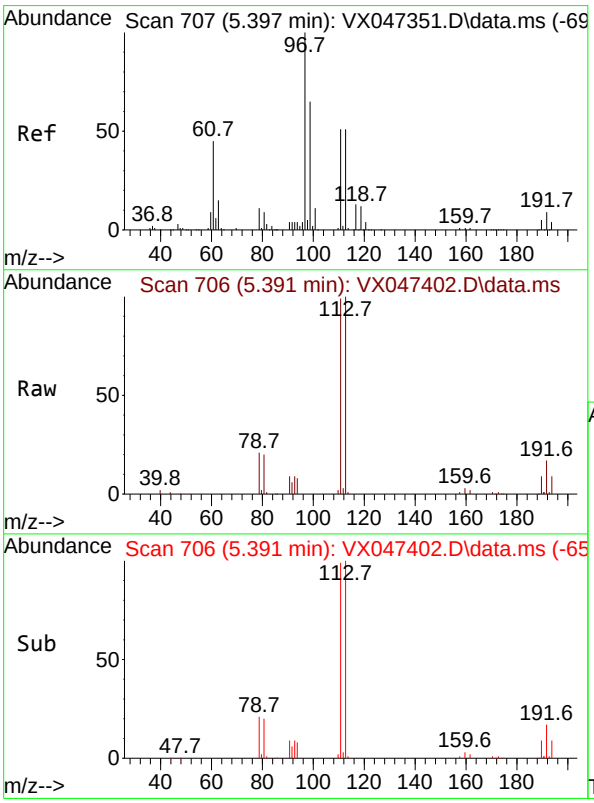
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 9
Delta R.T. -0.006 min
Lab File: VX047402.D
Acq: 19 Aug 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

Tgt Ion:114 Resp: 410508

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	42.4
88	16.7	0.0	33.0

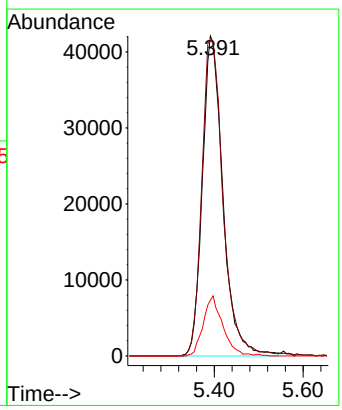


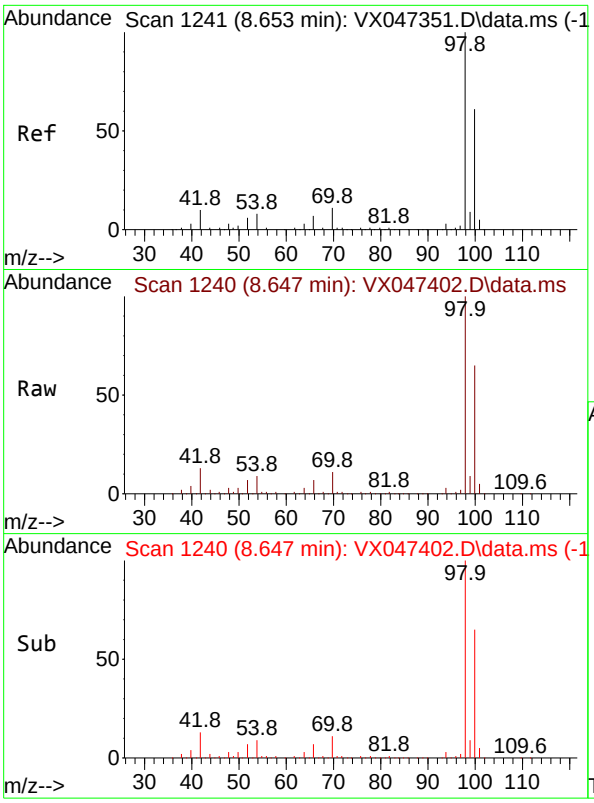


#35
Dibromofluoromethane
Concen: 50.893 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047402.D
Acq: 19 Aug 2025 10:55

Tgt Ion:113 Resp: 135590

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.4	122.2
192	17.8	14.1	21.1



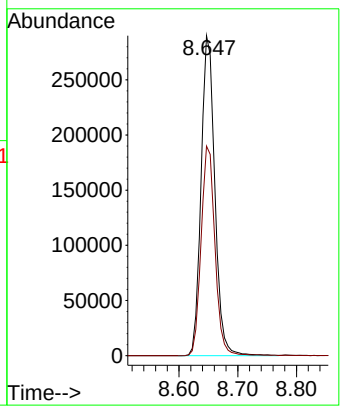


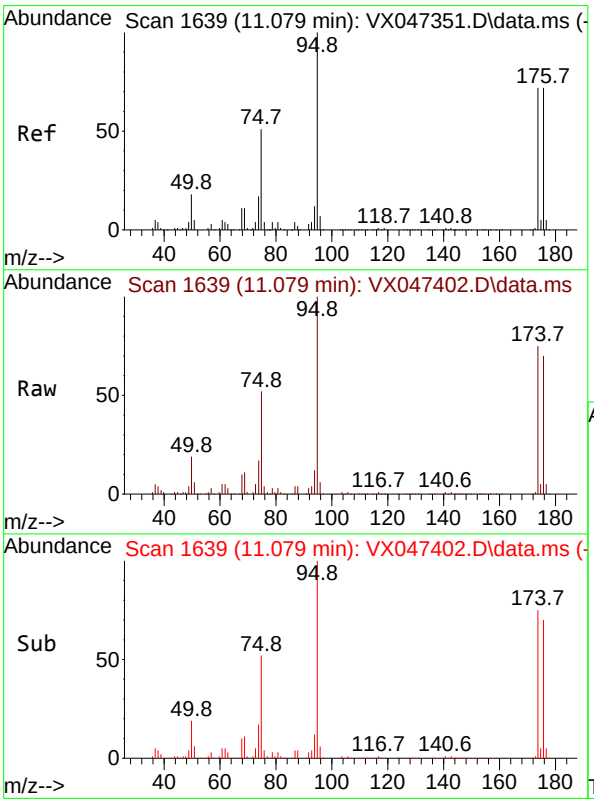
#50
Toluene-d8
Concen: 49.512 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047402.D
Acq: 19 Aug 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

Tgt Ion: 98 Resp: 471489

Ion	Ratio	Lower	Upper
98	100		
100	65.8	53.9	80.9

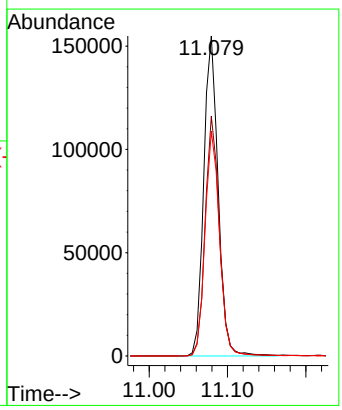


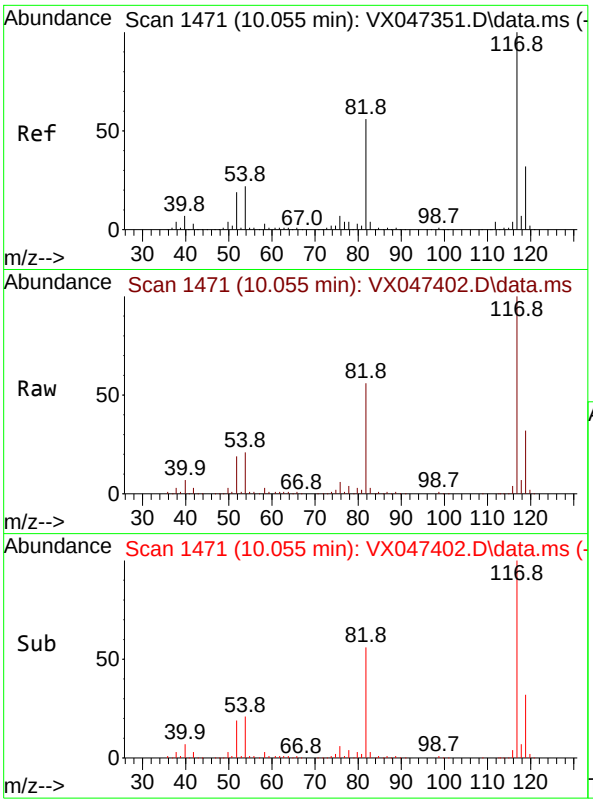


#62
4-Bromofluorobenzene
Concen: 56.138 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047402.D
Acq: 19 Aug 2025 10:55

Tgt Ion: 95 Resp: 197272

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	148.0
176	70.8	0.0	145.4



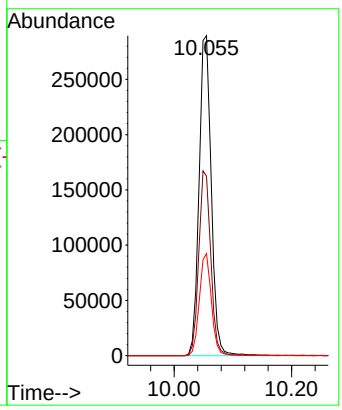


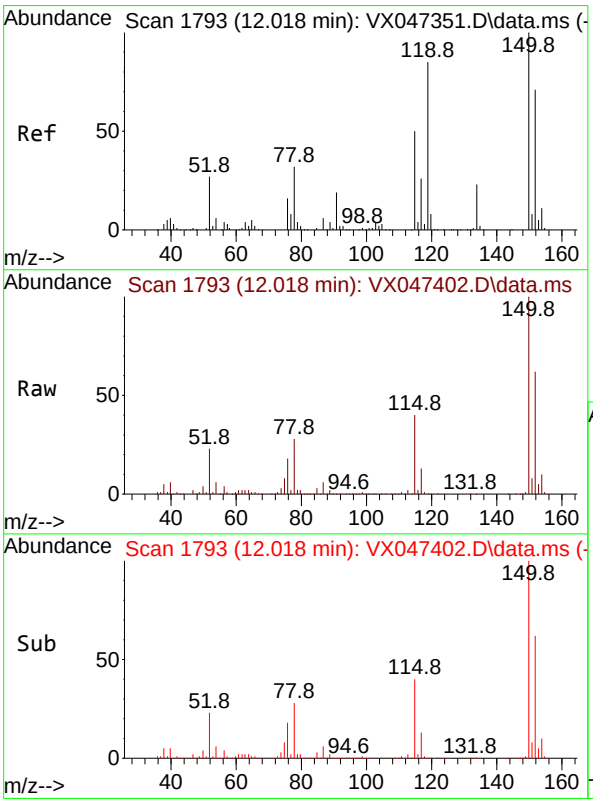
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047402.D
Acq: 19 Aug 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

Tgt Ion:117 Resp: 416324

Ion	Ratio	Lower	Upper
117	100		
82	56.1	45.0	67.4
119	31.9	25.8	38.8

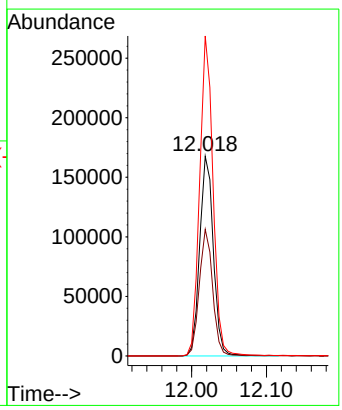




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047402.D
Acq: 19 Aug 2025 10:55

Tgt Ion:152 Resp: 212865

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.6	133.8
150	156.7	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047402.D
Acq On : 19 Aug 2025 10:55
Operator : JC/MD
Sample : VX0819WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047402.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.264	25	29	35	rBV	8351	20134	1.52%	0.275%
2	5.391	695	706	723	rBV4	138452	440655	33.30%	6.022%
3	5.562	723	734	758	rVB	198452	631890	47.75%	8.635%
4	5.964	788	800	818	rBV	154159	445845	33.69%	6.093%
5	6.763	922	931	956	rBV	370568	970698	73.36%	13.266%
6	8.647	1234	1240	1253	rBV	772240	1261375	95.32%	17.238%
7	10.049	1465	1470	1483	rBV	884131	1282649	96.93%	17.529%
8	11.079	1633	1639	1651	rBV	737055	940903	71.11%	12.858%
9	12.018	1788	1793	1805	rBV	1059759	1323237	100.00%	18.083%

Sum of corrected areas: 7317386

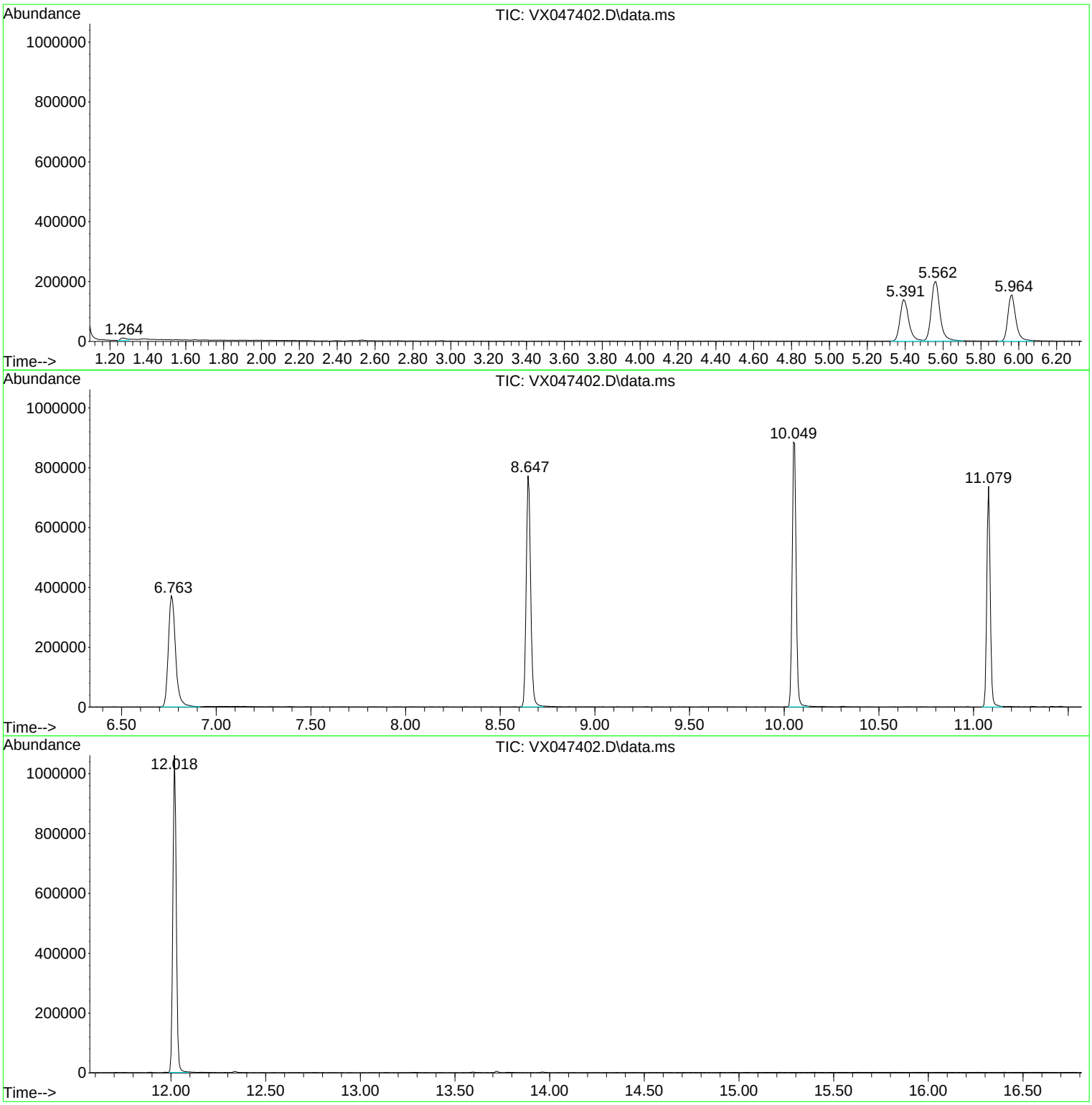
Sample Results: **VX047402.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047402.D
Acq On : 19 Aug 2025 10:55
Operator : JC/MD
Sample : VX0819WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047402.D
Acq On : 19 Aug 2025 10:55
Operator : JC/MD
Sample : VX0819WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX081925\
Data File : VX047402.D
Acq On : 19 Aug 2025 10:55
Operator : JC/MD
Sample : VX0819WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0820WBL01	SDG No.:	Q2815
Lab Sample ID:	VX0820WBL01	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
VX047429.D	1	08/20/25 10:07	VX082025

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:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0820WBL01	SDG No.:	Q2815
Lab Sample ID:	VX0820WBL01	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
VX047429.D	1	08/20/25 10:07	VX082025

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	57.9		81 - 118		116%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	50.7		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.9		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	281000	5.568				
540-36-3	1,4-Difluorobenzene	575000	6.769				
3114-55-4	Chlorobenzene-d5	561000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	280000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0820WBL01	SDG No.:	Q2815
Lab Sample ID:	VX0820WBL01	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
VX047429.D	1	08/20/25 10:07	VX082025

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047429.D
Acq On : 20 Aug 2025 10:07
Operator : JC/MD
Sample : VX0820WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBL01

Quant Time: Aug 21 01:26:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	280589	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	574542	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	560929	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	279679	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	227227	57.864	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 115.720%			
35) Dibromofluoromethane	5.397	113	191362	51.320	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.640%			
50) Toluene-d8	8.653	98	676059	50.725	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.460%			
62) 4-Bromofluorobenzene	11.079	95	274800	55.874	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.740%			

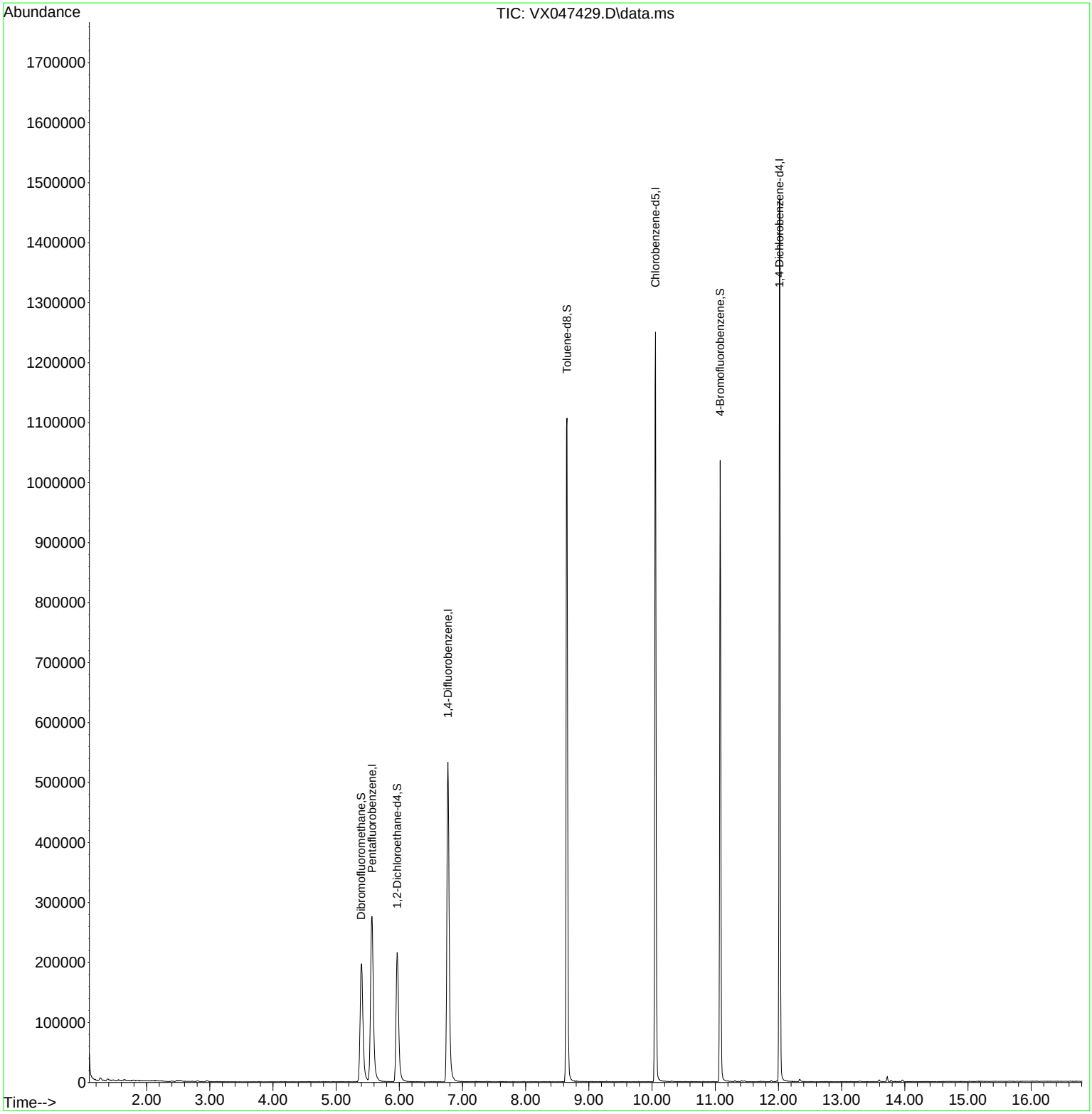
Target Compounds Qvalue

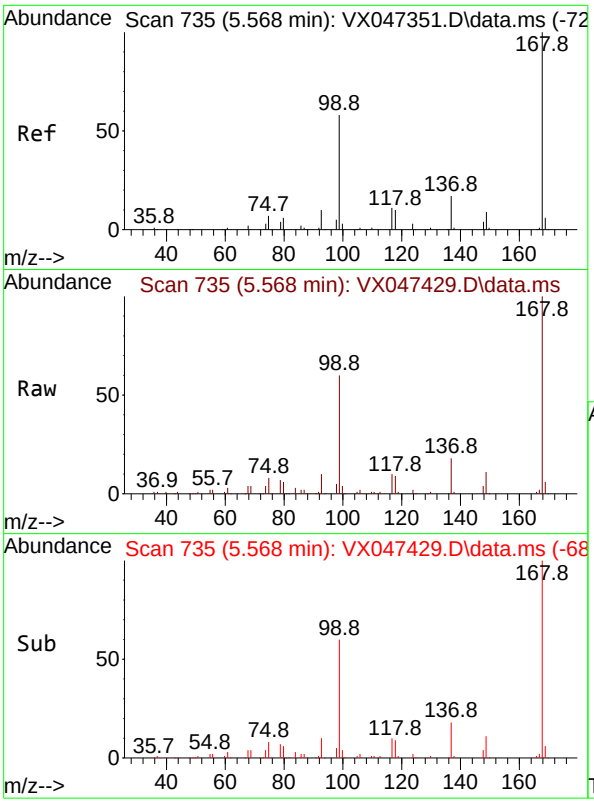
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047429.D
Acq On : 20 Aug 2025 10:07
Operator : JC/MD
Sample : VX0820WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBL01

Quant Time: Aug 21 01:26:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



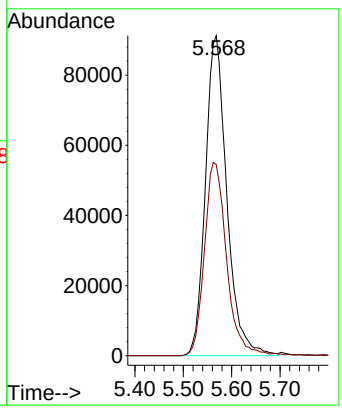


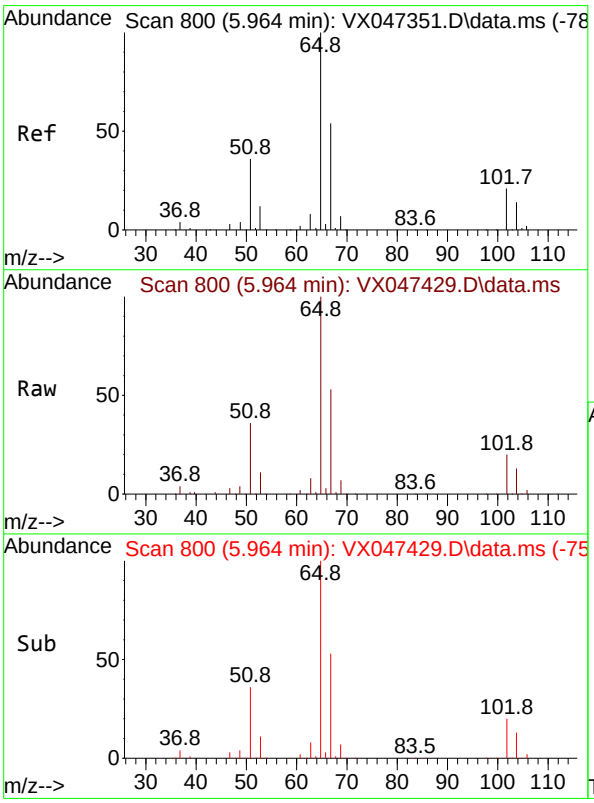
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047429.D
Acq: 20 Aug 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBL01

Tgt Ion:168 Resp: 280589

Ion	Ratio	Lower	Upper
168	100		
99	59.7	47.9	71.9

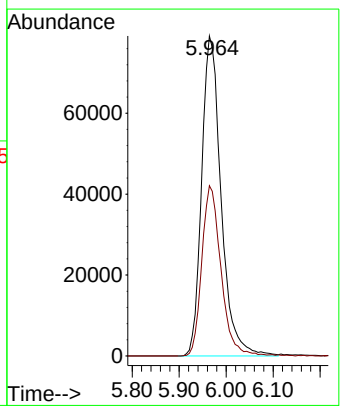


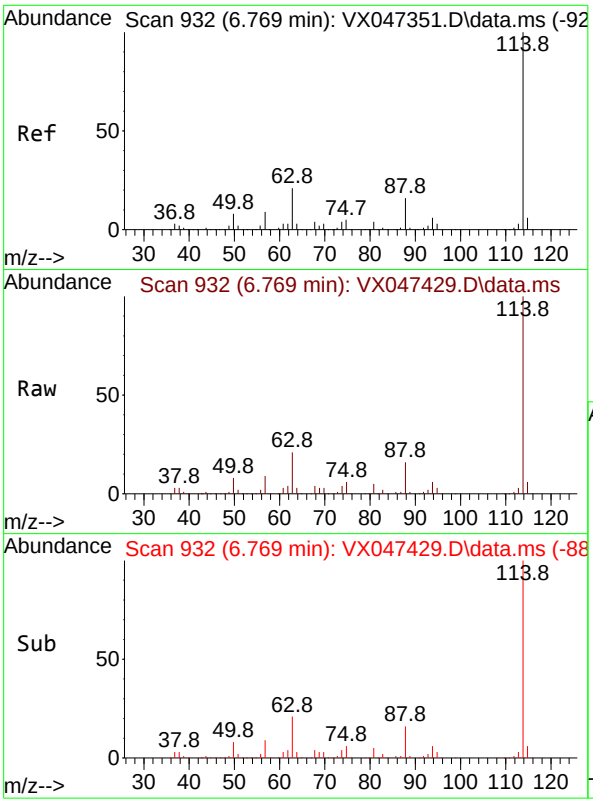


#33
1,2-Dichloroethane-d4
Concen: 57.864 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047429.D
Acq: 20 Aug 2025 10:07

Tgt Ion: 65 Resp: 227227

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.0



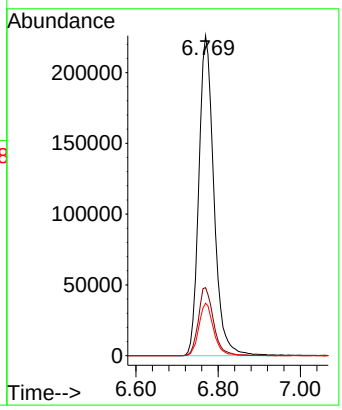


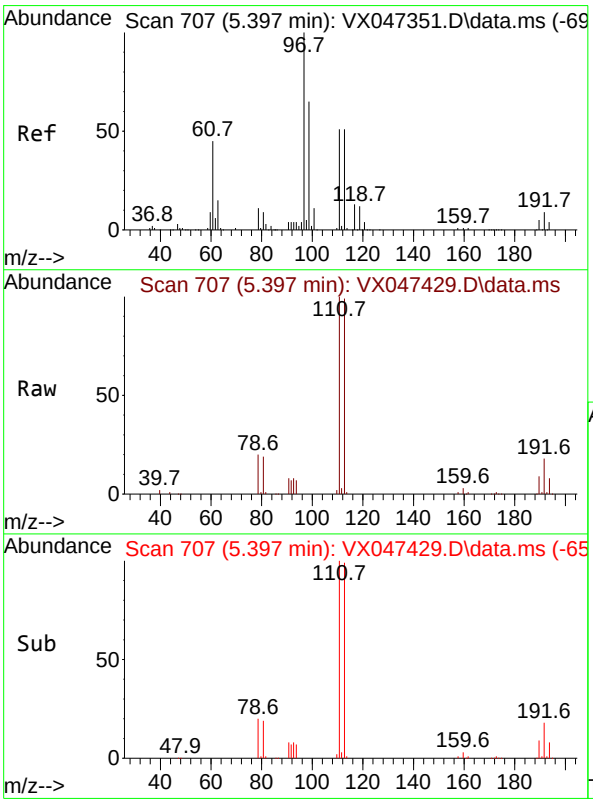
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047429.D
Acq: 20 Aug 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBL01

Tgt Ion:114 Resp: 574542

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	16.4	0.0	33.0

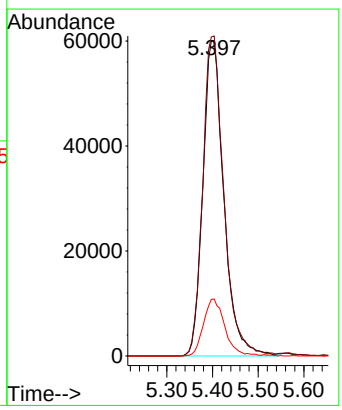


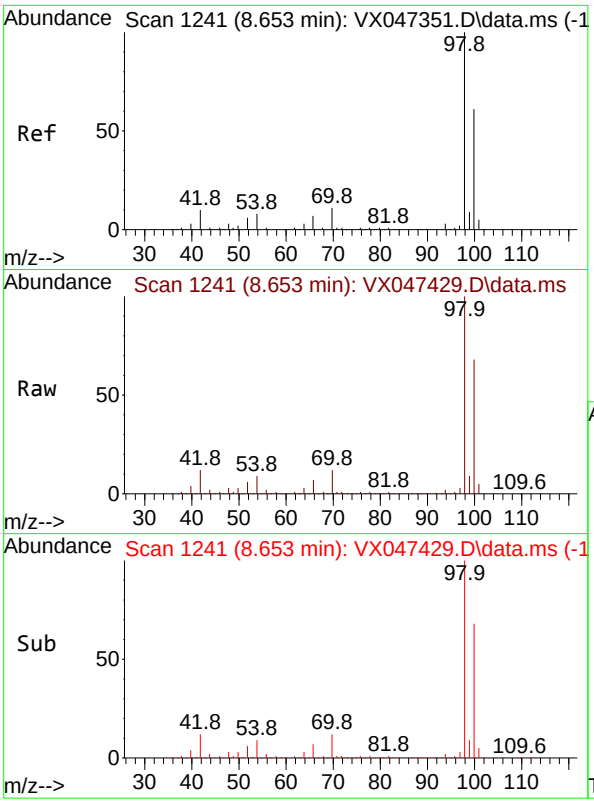


#35
Dibromofluoromethane
Concen: 51.320 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047429.D
Acq: 20 Aug 2025 10:07

Tgt Ion:113 Resp: 191362

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.4	122.2
192	18.3	14.1	21.1



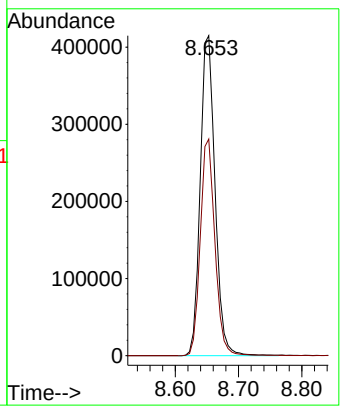


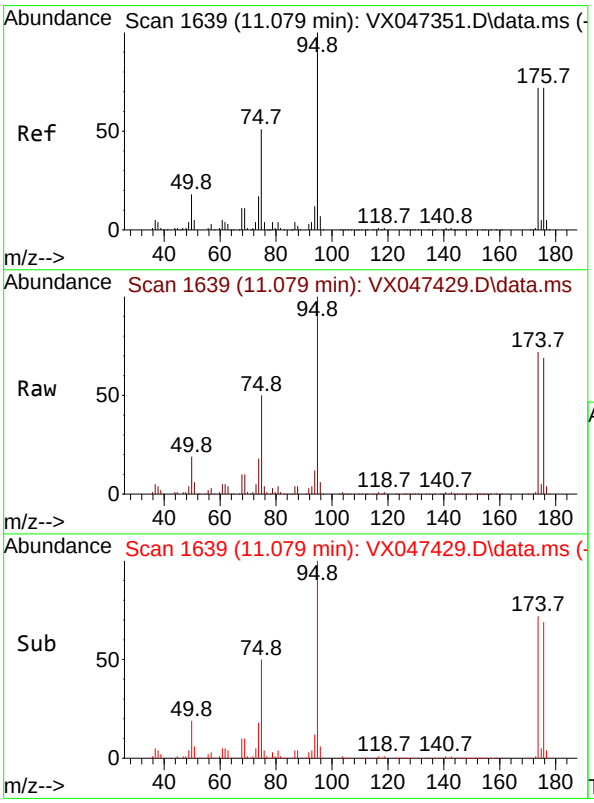
#50
Toluene-d8
Concen: 50.725 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047429.D
Acq: 20 Aug 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBL01

Tgt Ion: 98 Resp: 676059

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.9	80.9

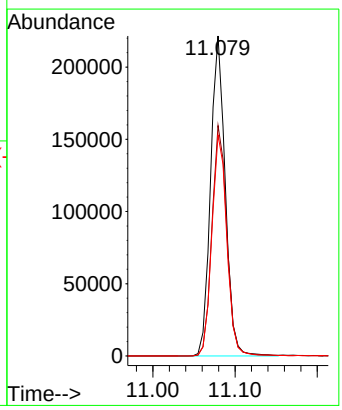


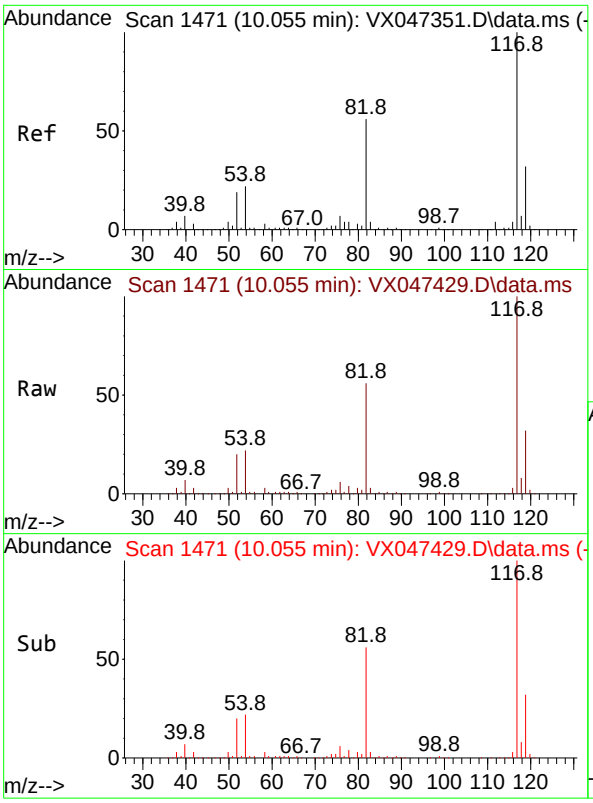


#62
4-Bromofluorobenzene
Concen: 55.874 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047429.D
Acq: 20 Aug 2025 10:07

Tgt Ion: 95 Resp: 274800

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	148.0
176	70.4	0.0	145.4



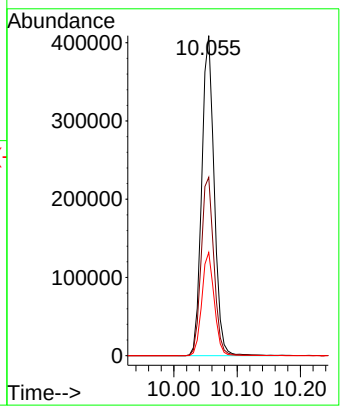


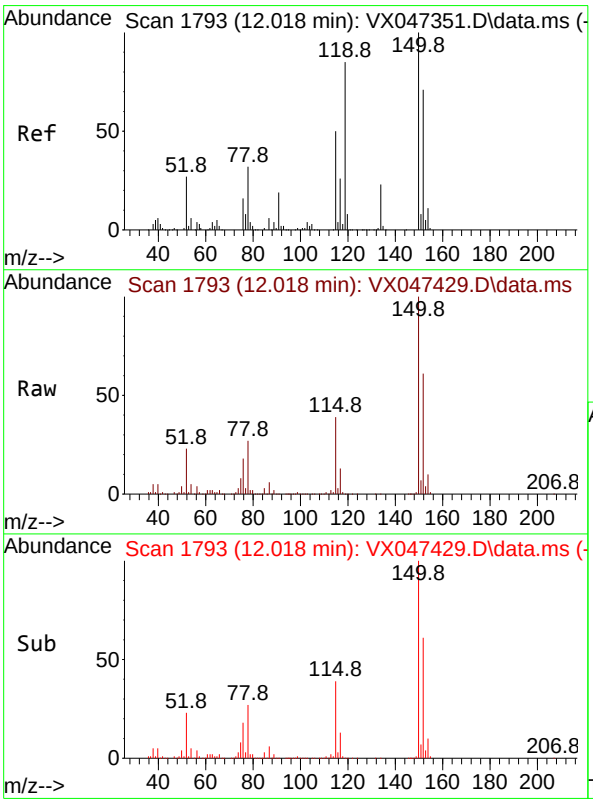
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047429.D
Acq: 20 Aug 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBL01

Tgt Ion:117 Resp: 560929

Ion	Ratio	Lower	Upper
117	100		
82	55.8	45.0	67.4
119	32.2	25.8	38.8

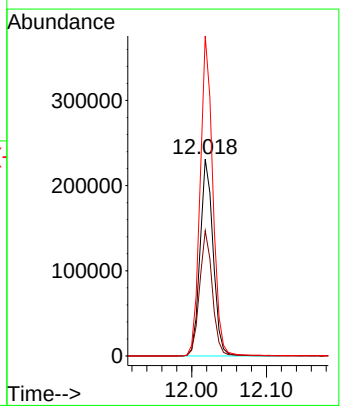




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047429.D
Acq: 20 Aug 2025 10:07

Tgt Ion:152 Resp: 279679

Ion	Ratio	Lower	Upper
152	100		
115	62.5	44.6	133.8
150	157.8	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047429.D
Acq On : 20 Aug 2025 10:07
Operator : JC/MD
Sample : VX0820WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBL01

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\82X081525W.M
Title : SW846 8260

Signal : TIC: VX047429.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.403	697	708	724	rBV3	196500	627596	34.30%	6.212%
2	5.568	724	735	756	rVB	274014	863104	47.17%	8.543%
3	5.964	791	800	827	rBV	215735	624085	34.11%	6.177%
4	6.769	922	932	957	rBV	532924	1361007	74.39%	13.471%
5	8.653	1234	1241	1259	rBV	1106923	1829617	100.00%	18.110%
6	10.055	1465	1471	1486	rBV	1249724	1750028	95.65%	17.322%
7	11.079	1634	1639	1657	rBV	1035804	1305595	71.36%	12.923%
8	12.018	1788	1793	1808	rBV	1471391	1741968	95.21%	17.242%

Sum of corrected areas: 10103000

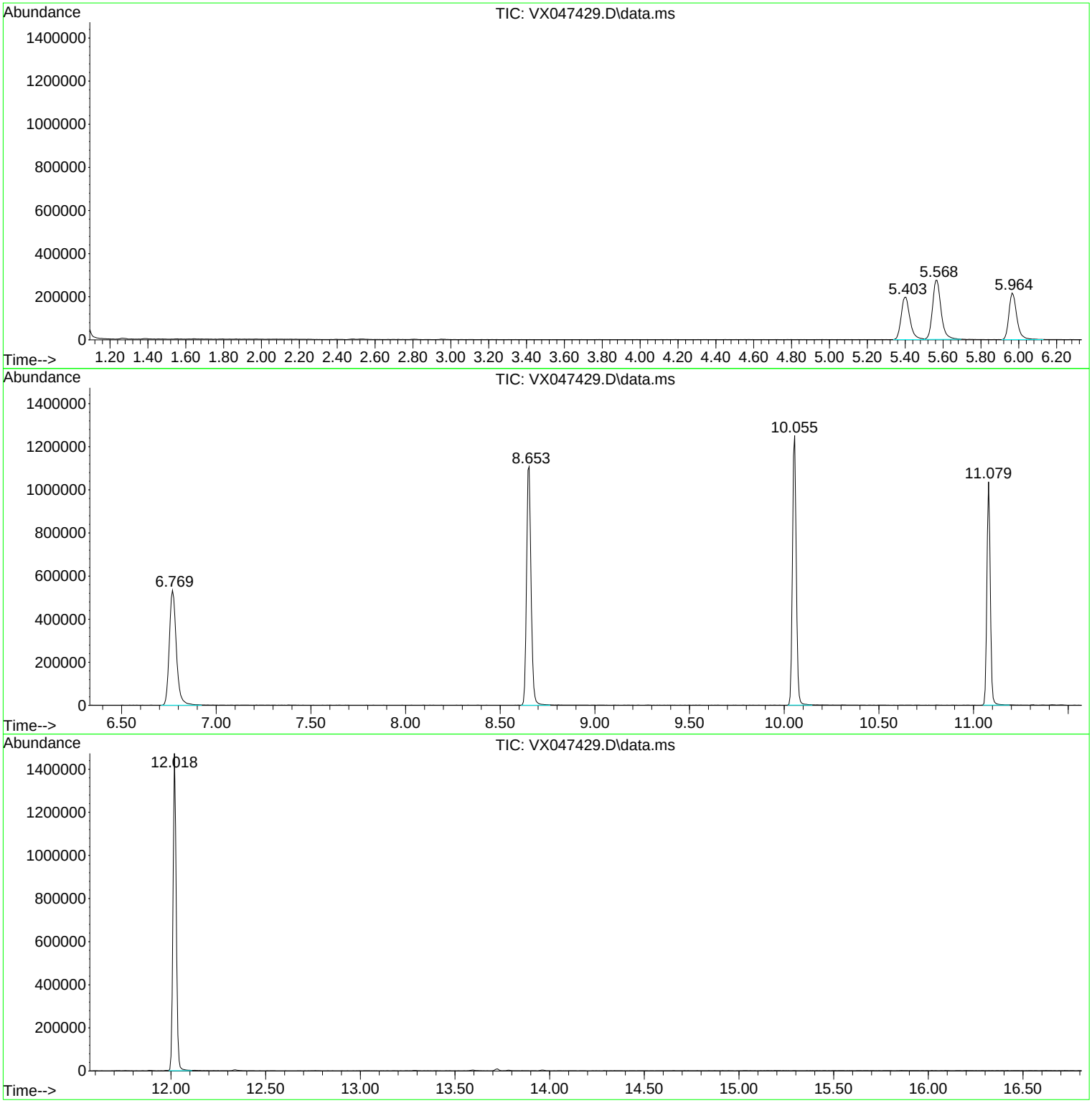
Sample Results: **VX047429.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047429.D
Acq On : 20 Aug 2025 10:07
Operator : JC/MD
Sample : VX0820WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047429.D
Acq On : 20 Aug 2025 10:07
Operator : JC/MD
Sample : VX0820WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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\VX082025\
Data File : VX047429.D
Acq On : 20 Aug 2025 10:07
Operator : JC/MD
Sample : VX0820WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.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:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0813WBS01	SDG No.:	Q2815
Lab Sample ID:	VX0813WBS01	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
VX047312.D	1	08/13/25 11:24	VX081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	18.9		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	19.3		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	20.5		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	19.2		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.2		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.4		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.7		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.0		0.23	0.75	1.00	ug/L
67-64-1	Acetone	110		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	18.9		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	22.2		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	25.3		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	22.0		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.5		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.1		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	17.8		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	19.2		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	23.8		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	21.5		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.4		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	16.9		0.16	0.50	1.00	ug/L
71-43-2	Benzene	20.7		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.0		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.6		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.7		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	21.2		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	20.6		0.14	0.50	1.00	ug/L

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0813WBS01	SDG No.:	Q2815
Lab Sample ID:	VX0813WBS01	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
VX047312.D	1	08/13/25 11:24	VX081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.7		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.4		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.2		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	120		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	21.8		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	19.3		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.1		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.6		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	40.4		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	20.1		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	21.1		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	18.9		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.3		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.0		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.9		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.8		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.1		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.4		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.6		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.7		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	55.7		80 - 119		111%	SPK: 50
2037-26-5	Toluene-d8	48.4		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.4		85 - 114		109%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	201000	5.568				
540-36-3	1,4-Difluorobenzene	351000	6.769				
3114-55-4	Chlorobenzene-d5	321000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	166000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0813WBS01	SDG No.:	Q2815
Lab Sample ID:	VX0813WBS01	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
VX047312.D	1	08/13/25 11:24	VX081325

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\VX081325\
Data File : VX047312.D
Acq On : 13 Aug 2025 11:24
Operator : JC/MD
Sample : VX0813WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 14 03:25:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	201153	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	351465	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	321390	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	166290	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.971	65	137106	54.717	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.440%			
35) Dibromofluoromethane	5.397	113	120946	55.734	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.460%			
50) Toluene-d8	8.653	98	340158	48.402	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.800%			
62) 4-Bromofluorobenzene	11.079	95	164675	54.374	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.740%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	50552	18.920	ug/l	99
3) Chloromethane	1.313	50	50910	19.263	ug/l	99
4) Vinyl Chloride	1.392	62	58156	20.470	ug/l	99
5) Bromomethane	1.630	94	29650	19.212	ug/l	96
6) Chloroethane	1.709	64	35844	19.210	ug/l	97
7) Trichlorofluoromethane	1.904	101	82128	19.387	ug/l	99
8) Diethyl Ether	2.148	74	32810	21.966	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.349	101	47828	18.739	ug/l	98
10) Methyl Iodide	2.471	142	77812	29.914	ug/l	98
11) Tert butyl alcohol	2.965	59	29334	93.714	ug/l	99
12) 1,1-Dichloroethene	2.337	96	50671	20.045	ug/l	95
13) Acrolein	2.252	56	75081	139.160	ug/l	99
14) Allyl chloride	2.678	41	90565	19.819	ug/l	99
15) Acrylonitrile	3.081	53	134855	112.844	ug/l	100
16) Acetone	2.392	43	109769	109.353	ug/l	99
17) Carbon Disulfide	2.532	76	138145	18.890	ug/l	99
18) Methyl Acetate	2.721	43	67472	25.293	ug/l	98
19) Methyl tert-butyl Ether	3.130	73	170912	22.215	ug/l	99
20) Methylene Chloride	2.806	84	60670	21.969	ug/l	96
21) trans-1,2-Dichloroethene	3.111	96	53110	20.531	ug/l	93
22) Diisopropyl ether	3.776	45	189542	21.575	ug/l	93
23) Vinyl Acetate	3.733	43	777071	110.278	ug/l	100
24) 1,1-Dichloroethane	3.630	63	103292	21.143	ug/l	98
25) 2-Butanone	4.574	43	155750	106.560	ug/l	93
26) 2,2-Dichloropropane	4.495	77	73431	19.417	ug/l	100
27) cis-1,2-Dichloroethene	4.507	96	64021	20.900	ug/l	99
28) Bromochloromethane	4.910	49	53405	23.761	ug/l	99
29) Tetrahydrofuran	5.026	42	97737	103.638	ug/l	96
30) Chloroform	5.105	83	106952	21.507	ug/l	98
31) Cyclohexane	5.489	56	83355	17.795	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	87950	20.362	ug/l	99
36) 1,1-Dichloropropene	5.708	75	68123	18.416	ug/l	97
37) Ethyl Acetate	4.727	43	79295	23.264	ug/l	97
38) Carbon Tetrachloride	5.690	117	75937	19.234	ug/l	97
39) Methylcyclohexane	7.385	83	77955	16.879	ug/l	95
40) Benzene	6.050	78	221589	20.699	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047312.D
Acq On : 13 Aug 2025 11:24
Operator : JC/MD
Sample : VX0813WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 14 03:25:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	36004	20.202	ug/l	#	90
42) 1,2-Dichloroethane	6.099	62	83097	22.036	ug/l		99
43) Isopropyl Acetate	6.349	43	115740	21.781	ug/l		99
44) Trichloroethene	7.129	130	53800	19.598	ug/l		99
45) 1,2-Dichloropropane	7.434	63	55625	20.747	ug/l		93
46) Dibromomethane	7.586	93	41993	22.334	ug/l		99
47) Bromodichloromethane	7.824	83	84762	21.180	ug/l		96
48) Methyl methacrylate	7.702	41	59981	20.720	ug/l		99
49) 1,4-Dioxane	7.684	88	12726	386.524	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	356346	112.824	ug/l		99
52) Toluene	8.720	92	135372	20.566	ug/l		100
53) t-1,3-Dichloropropene	8.982	75	74453	19.701	ug/l		94
54) cis-1,3-Dichloropropene	8.373	75	84401	20.406	ug/l		97
55) 1,1,2-Trichloroethane	9.153	97	54901	22.240	ug/l		97
56) Ethyl methacrylate	9.122	69	80865	22.128	ug/l		98
57) 1,3-Dichloropropane	9.311	76	93007	21.679	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.245	63	199555	98.129	ug/l		100
59) 2-Hexanone	9.433	43	247091	118.411	ug/l		99
60) Dibromochloromethane	9.519	129	63101	21.795	ug/l		100
61) 1,2-Dibromoethane	9.610	107	56802	22.006	ug/l		99
64) Tetrachloroethene	9.275	164	44694	19.291	ug/l		94
65) Chlorobenzene	10.080	112	151282	20.093	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.165	131	52881	20.861	ug/l		98
67) Ethyl Benzene	10.195	91	258375	19.627	ug/l		99
68) m/p-Xylenes	10.299	106	198849	40.364	ug/l		98
69) o-Xylene	10.640	106	94390	20.141	ug/l		98
70) Styrene	10.653	104	166666	20.739	ug/l		99
71) Bromoform	10.799	173	40688	21.130	ug/l	#	98
73) Isopropylbenzene	10.964	105	247425	18.860	ug/l		99
74) N-amyl acetate	10.842	43	101822	19.236	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	79675	21.261	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	62793m	20.401	ug/l		
77) Bromobenzene	11.195	156	63857	20.293	ug/l		96
78) n-propylbenzene	11.305	91	294861	18.808	ug/l		100
79) 2-Chlorotoluene	11.360	91	182451	19.469	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	207773	19.170	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	10307	8.627	ug/l		96
82) 4-Chlorotoluene	11.451	91	215901	19.738	ug/l		99
83) tert-Butylbenzene	11.713	119	202063	18.575	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	207952	19.236	ug/l		99
85) sec-Butylbenzene	11.890	105	246647	18.146	ug/l		99
86) p-Isopropyltoluene	12.006	119	209624	18.597	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	119434	19.976	ug/l		100
88) 1,4-Dichlorobenzene	12.037	146	120773	19.938	ug/l		98
89) n-Butylbenzene	12.329	91	188398	17.823	ug/l		98
90) Hexachloroethane	12.536	117	35864	17.786	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	113345	19.835	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	15204	21.136	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	73212	19.391	ug/l		98
94) Hexachlorobutadiene	13.719	225	21890	17.048	ug/l		97
95) Naphthalene	13.774	128	221152	19.981	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	67706	18.614	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047312.D
Acq On : 13 Aug 2025 11:24
Operator : JC/MD
Sample : VX0813WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 14 03:25:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

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\VX081325\
Data File : VX047312.D
Acq On : 13 Aug 2025 11:24
Operator : JC/MD
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Misc : 5.0mL/MSVOA_X/WATER
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Quant Time: Aug 14 03:25:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations APPROVED

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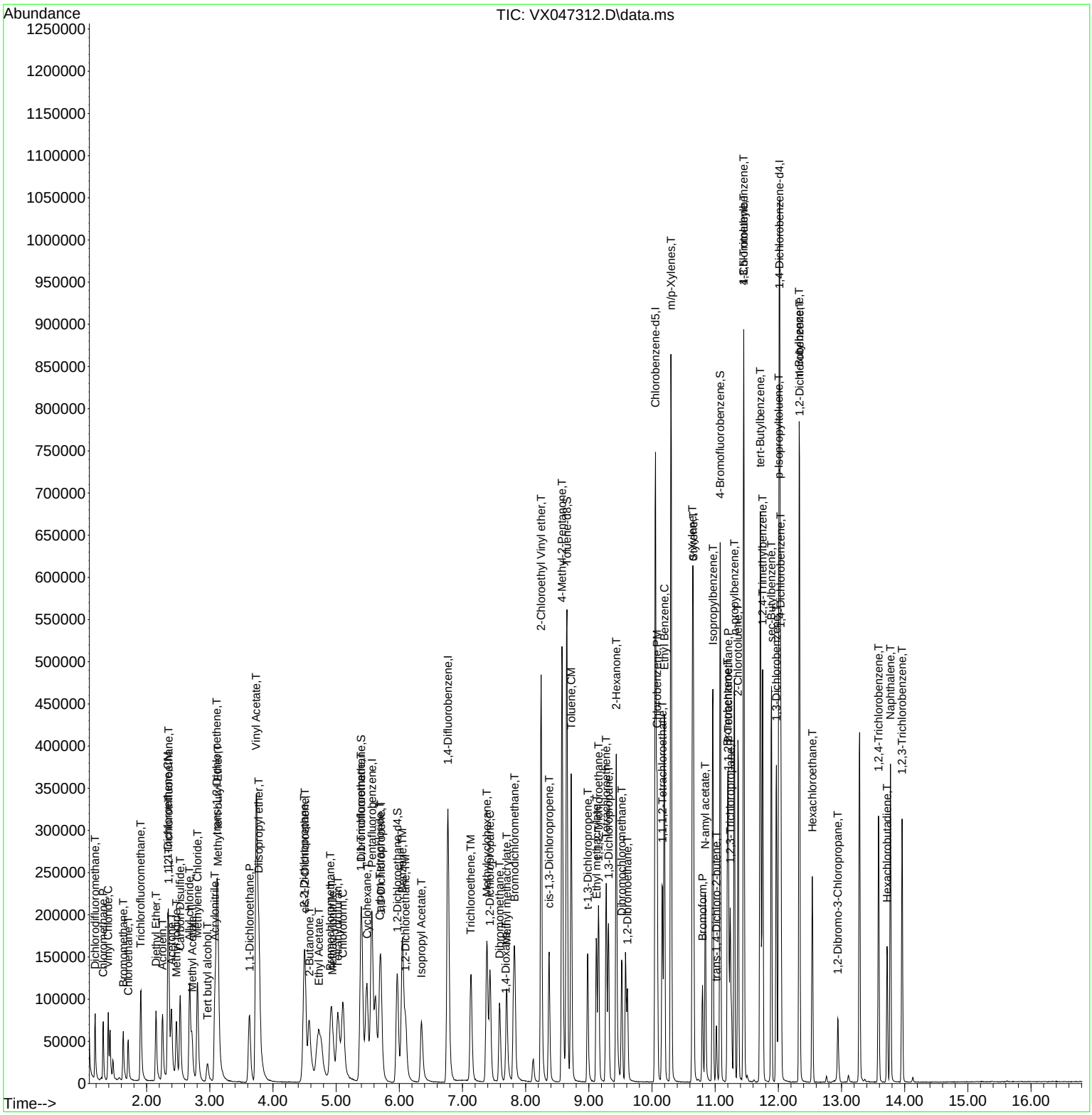
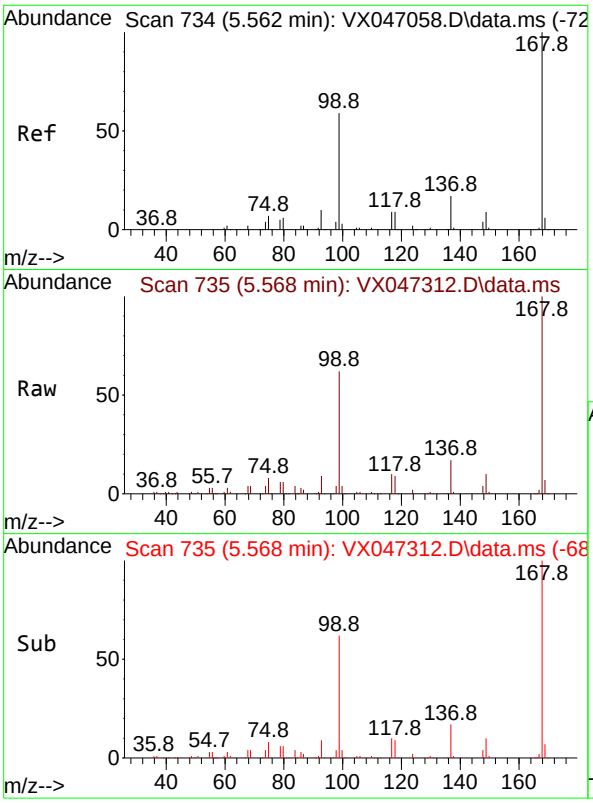
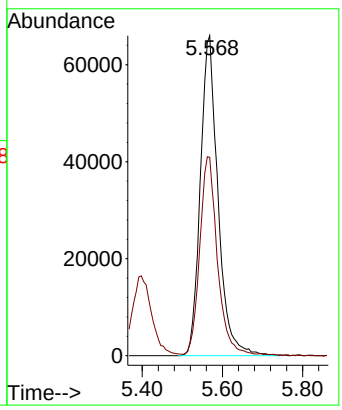




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:168 Resp: 20115

Ion	Ratio	Lower	Upper
168	100		
99	61.7	48.0	72.0



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations
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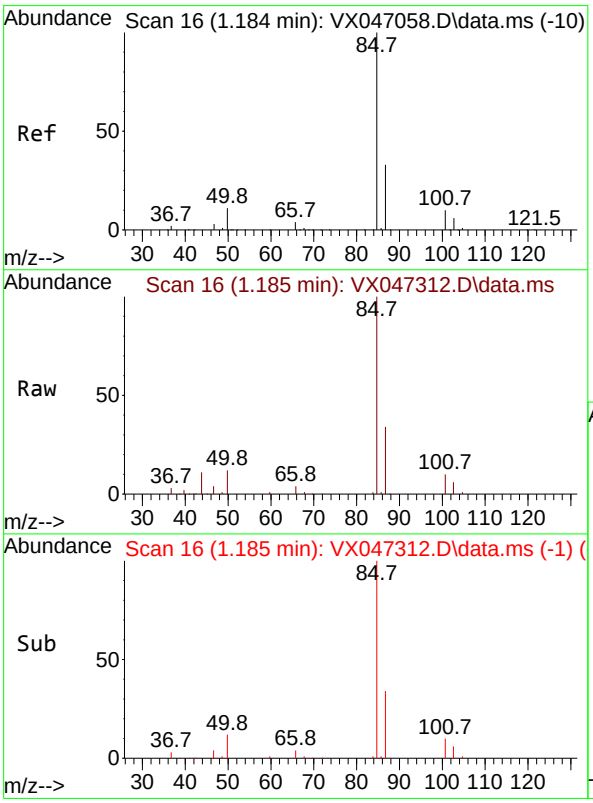
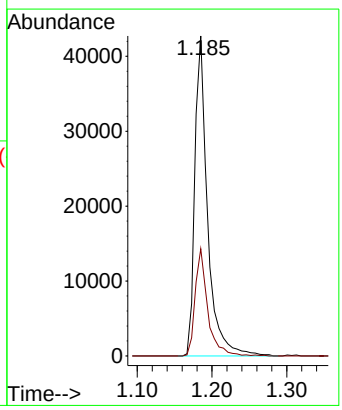
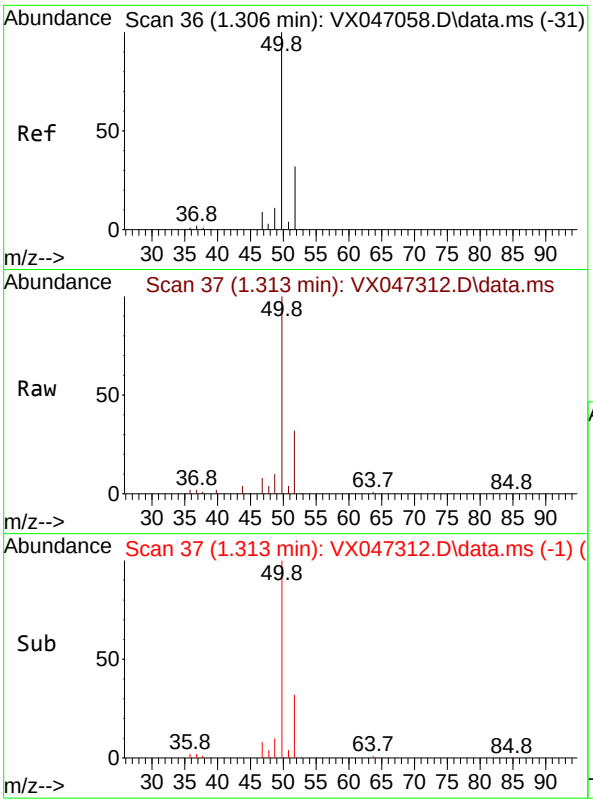


#2
Dichlorodifluoromethane
Concen: 18.920 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 85 Resp: 50552

Ion	Ratio	Lower	Upper
85	100		
87	33.5	16.6	49.8

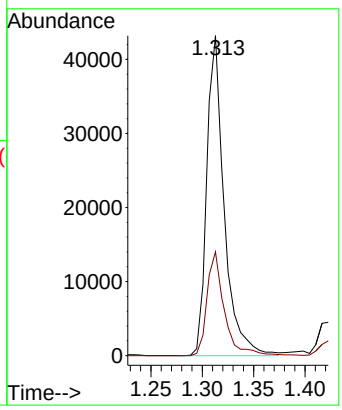




#3
Chloromethane
Concen: 19.263 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 50 Resp: 5091

Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations
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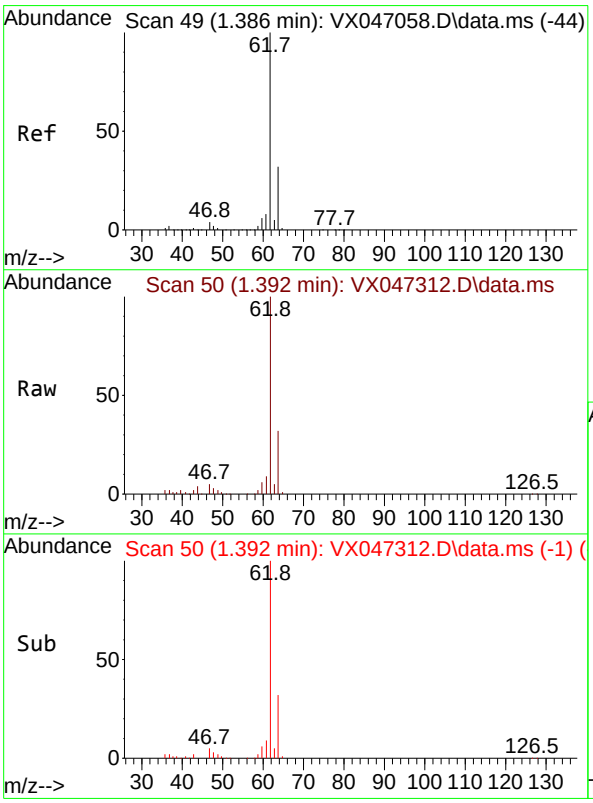
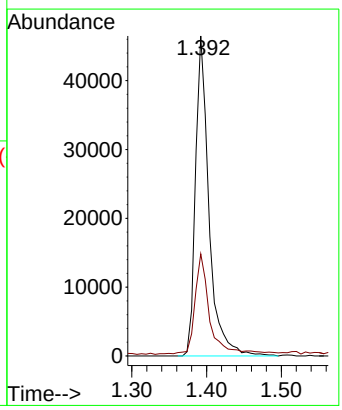
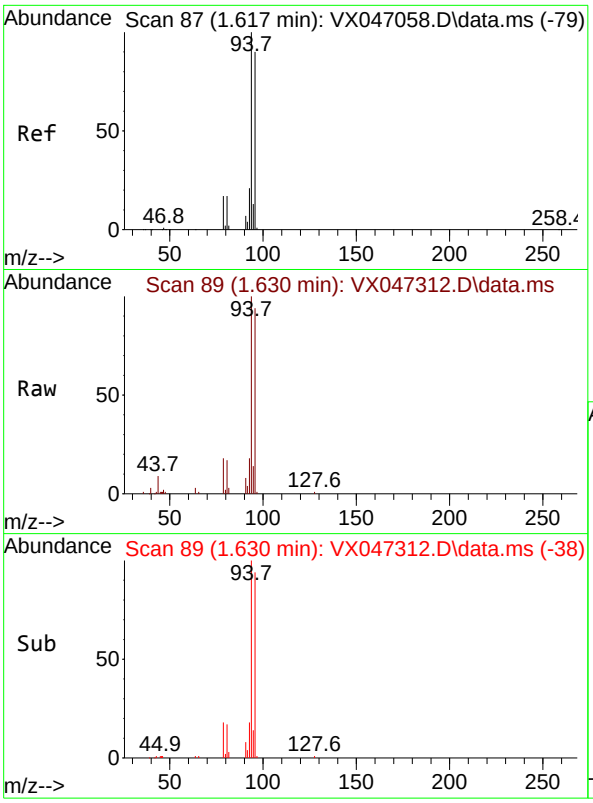


#4
Vinyl Chloride
Concen: 20.470 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 62 Resp: 58156

Ion	Ratio	Lower	Upper
62	100		
64	31.0	25.2	37.8

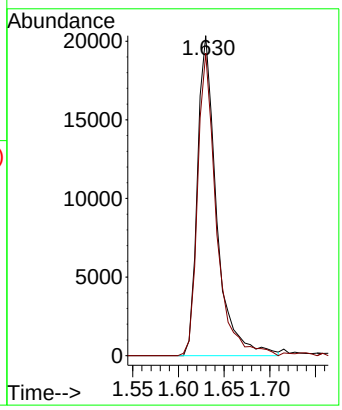




#5
Bromomethane
Concen: 19.212 ug/l
RT: 1.630 min Scan# 8
Delta R.T. 0.013 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 94 Resp: 2965

Ion	Ratio	Lower	Upper
94	100		
96	94.5	72.3	108.5



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations
APPROVED

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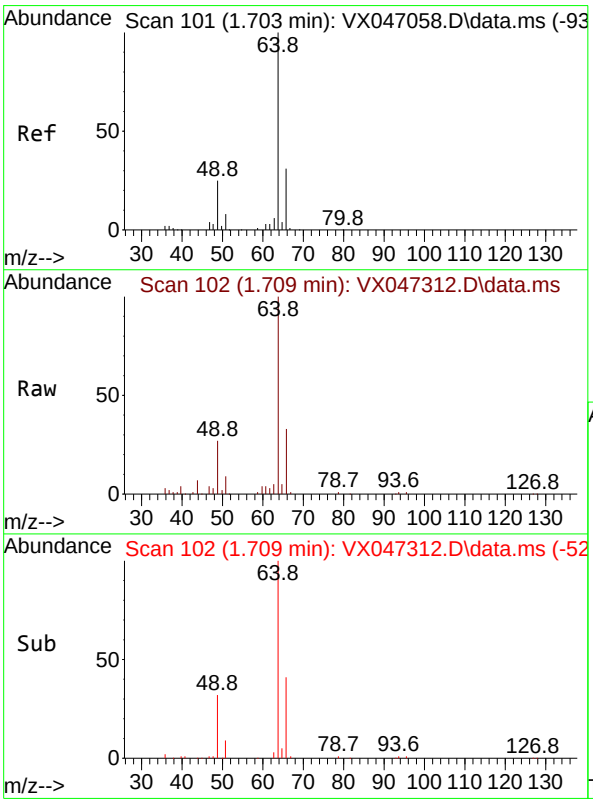
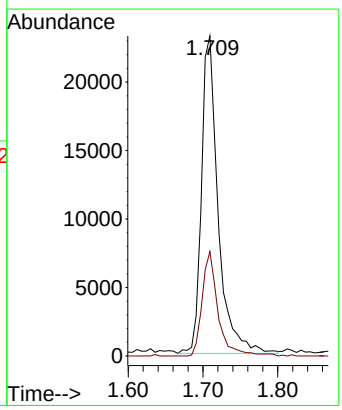
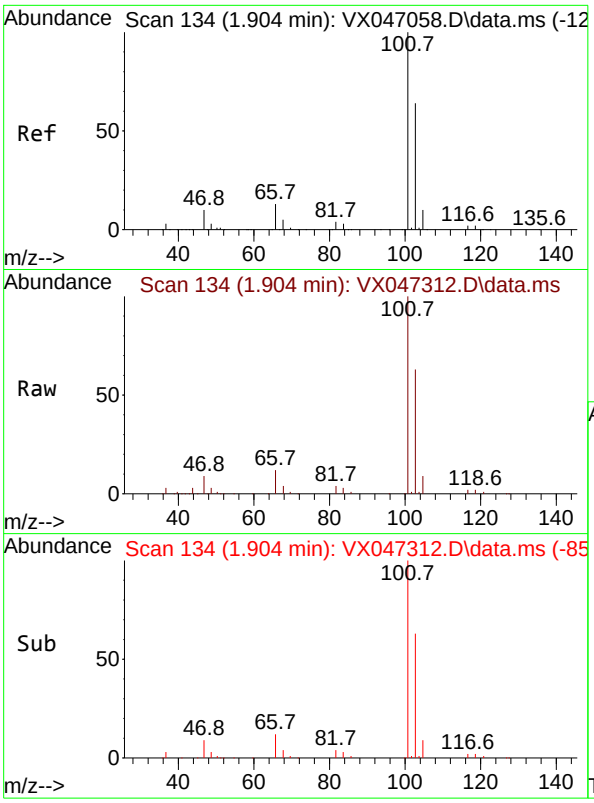


#6
Chloroethane
Concen: 19.210 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 64 Resp: 35844

Ion	Ratio	Lower	Upper
64	100		
66	32.9	25.0	37.6

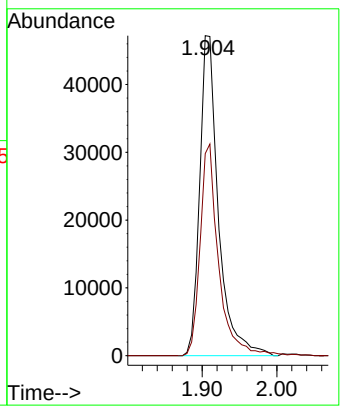




#7
Trichlorofluoromethane
Concen: 19.387 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:101 Resp: 8212

Ion	Ratio	Lower	Upper
101	100		
103	63.2	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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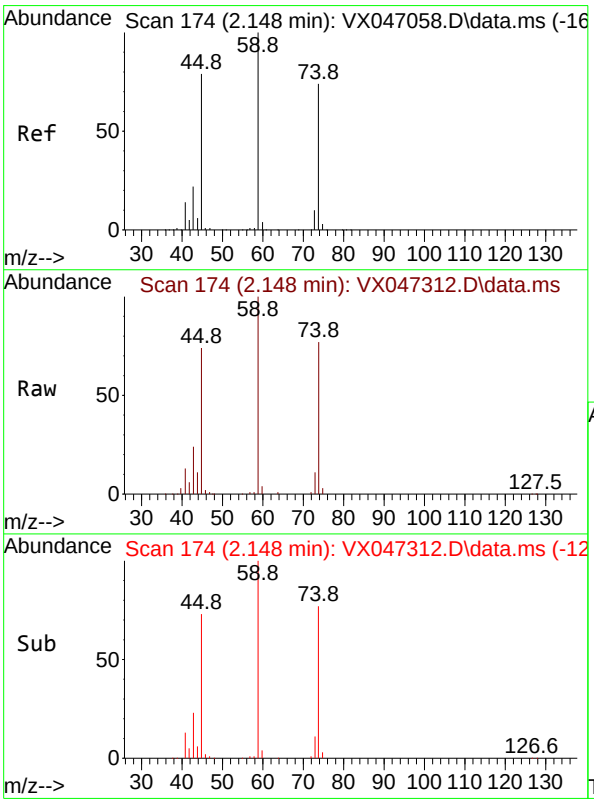
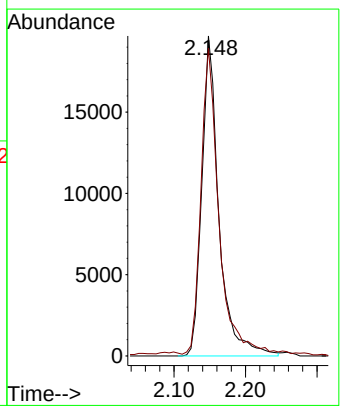
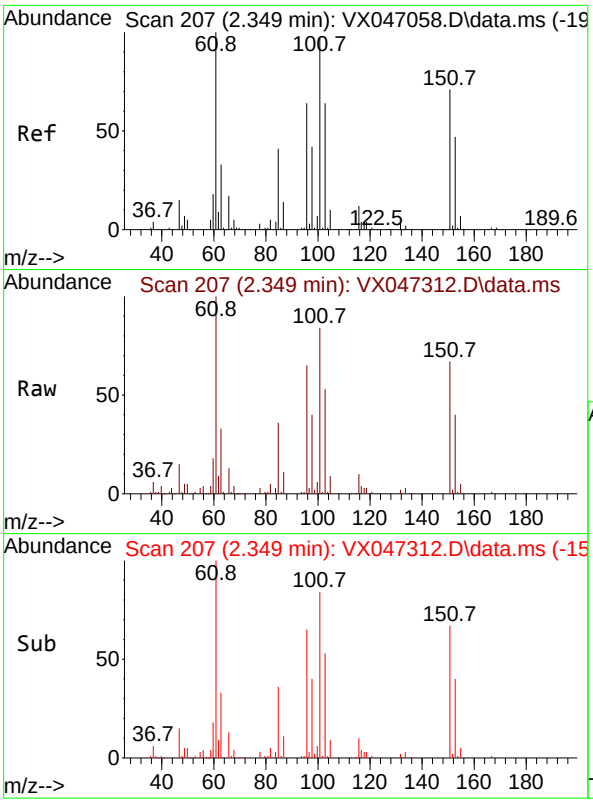


#8
Diethyl Ether
Concen: 21.966 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 74 Resp: 32810

Ion	Ratio	Lower	Upper
74	100		
45	103.7	53.0	159.0

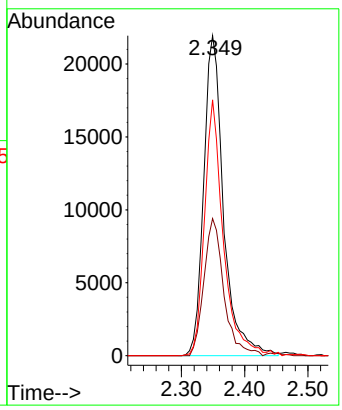




#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.739 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:101 Resp: 4782

Ion	Ratio	Lower	Upper
101	100		
85	43.0	35.4	53.0
151	75.3	59.2	88.8



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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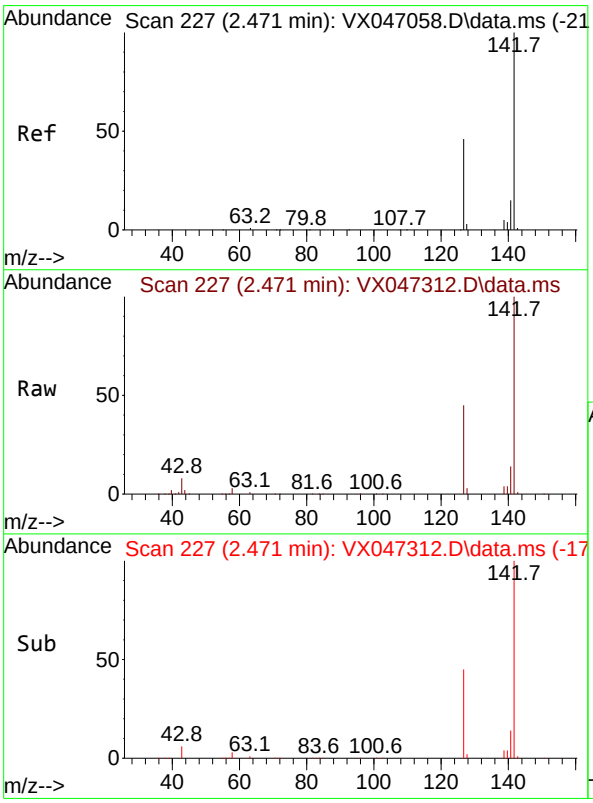
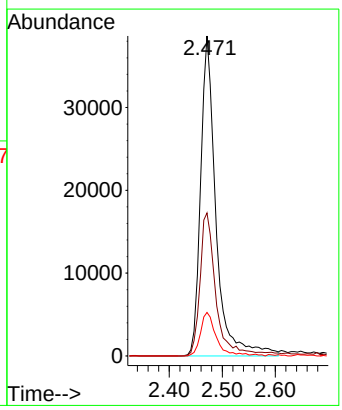
Supervised By :Mahesh Dadoda 08/18/2025

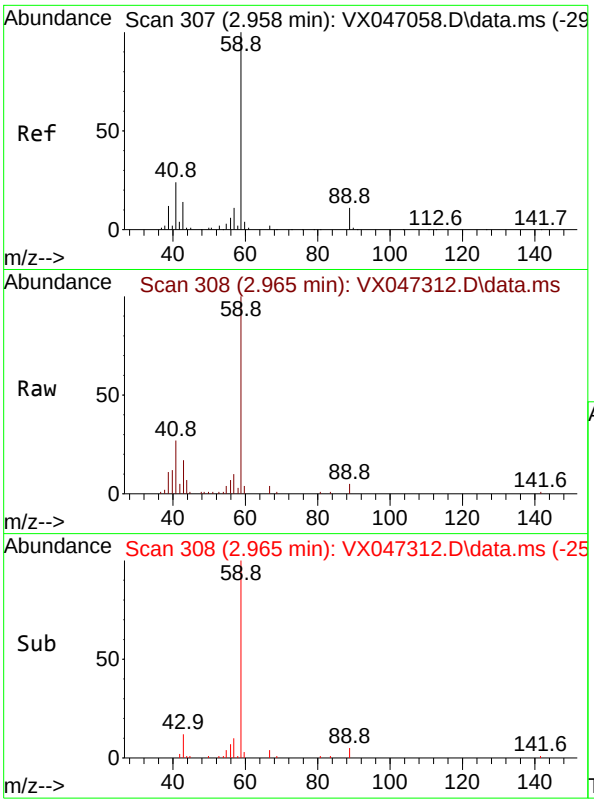


#10
Methyl Iodide
Concen: 29.914 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:142 Resp: 77812

Ion	Ratio	Lower	Upper
142	100		
127	46.9	36.6	54.8
141	13.9	10.9	16.3

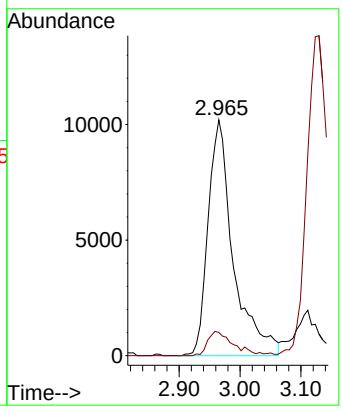




#11
Tert butyl alcohol
Concen: 93.714 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 59 Resp: 2933

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.5	12.7



Instrument :
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ClientSampleId :
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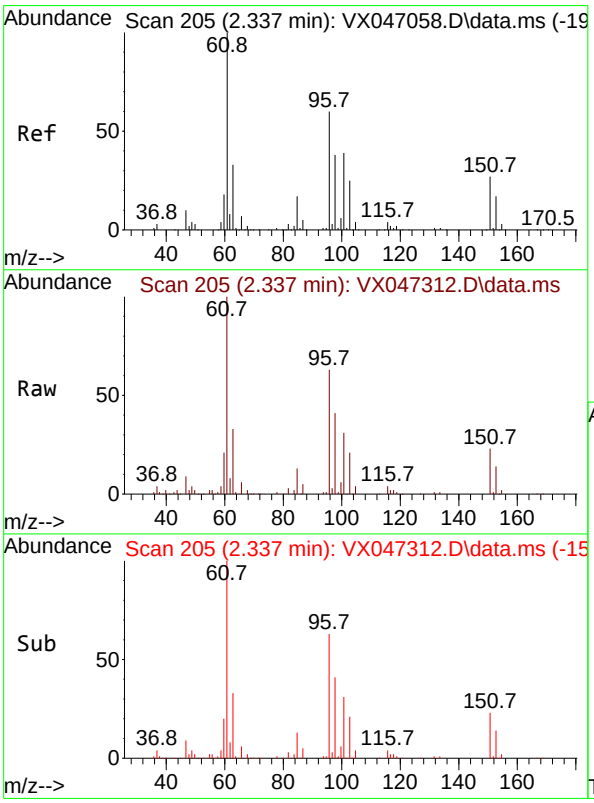
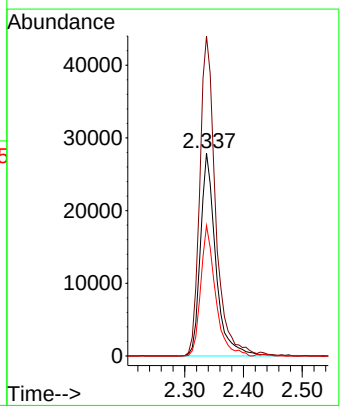
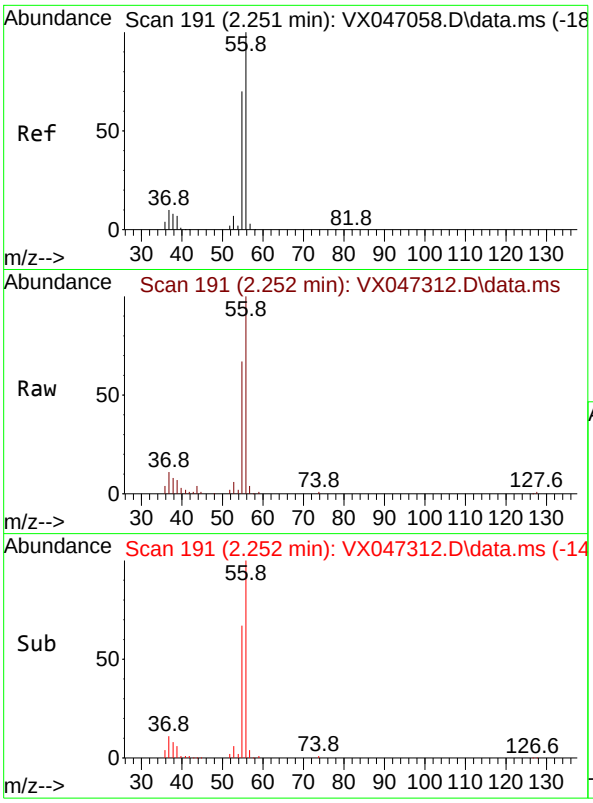


#12
1,1-Dichloroethene
Concen: 20.045 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 96 Resp: 50671

Ion	Ratio	Lower	Upper
96	100		
61	157.7	132.6	198.8
98	64.3	50.2	75.4

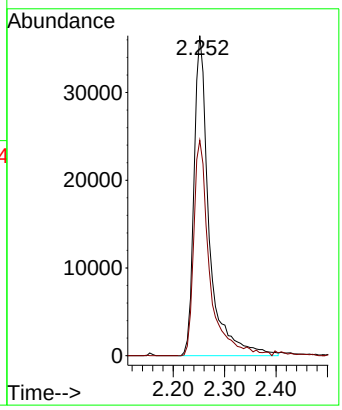




#13
Acrolein
Concen: 139.160 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 56 Resp: 7508

Ion	Ratio	Lower	Upper
56	100		
55	70.0	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
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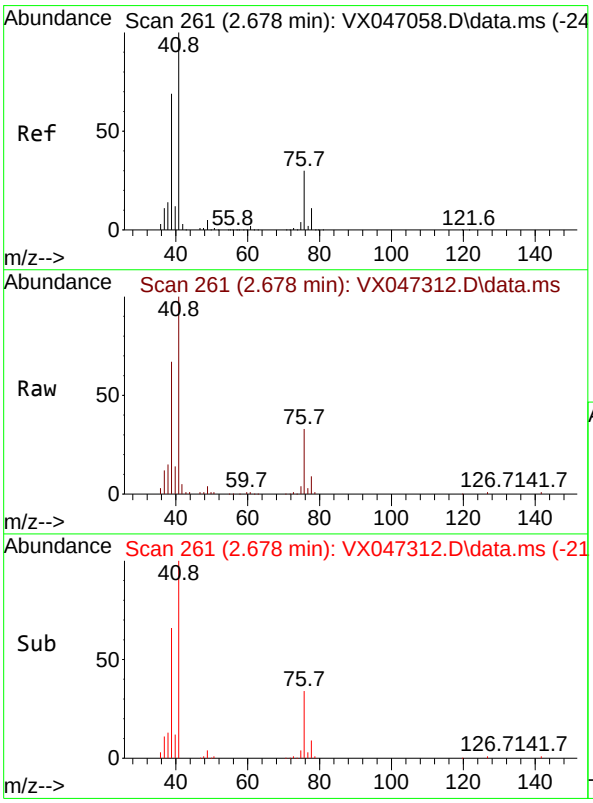
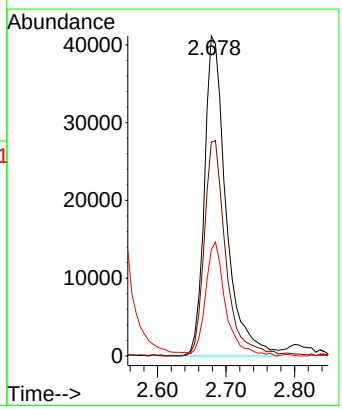
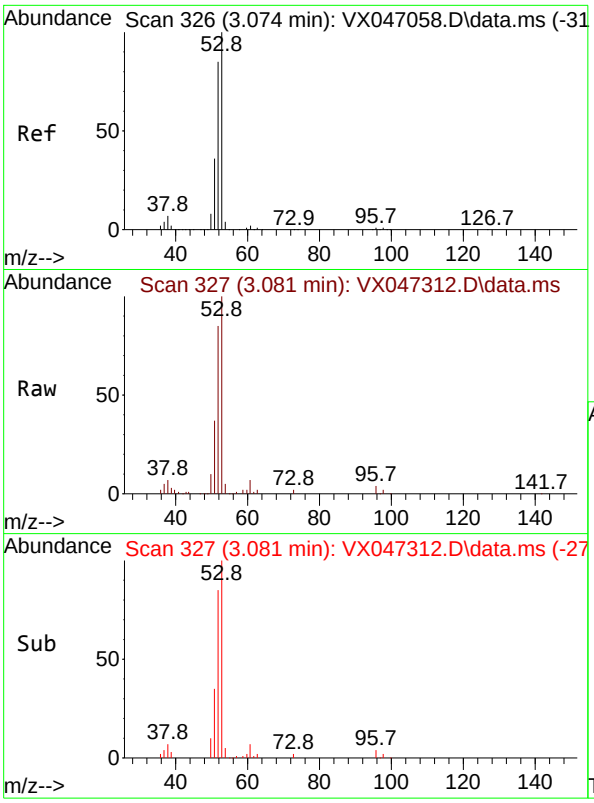


#14
Allyl chloride
Concen: 19.819 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 41 Resp: 90565

Ion	Ratio	Lower	Upper
41	100		
39	66.7	52.6	78.8
76	32.9	25.7	38.5

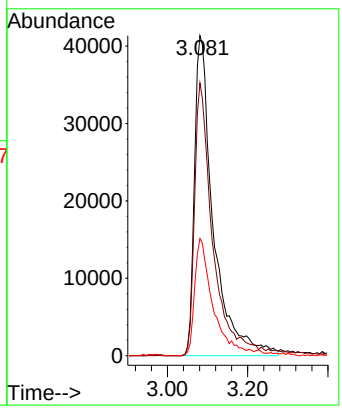




#15
Acrylonitrile
Concen: 112.844 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 53 Resp: 13485

Ion	Ratio	Lower	Upper
53	100		
52	81.8	65.7	98.5
51	35.6	28.8	43.2



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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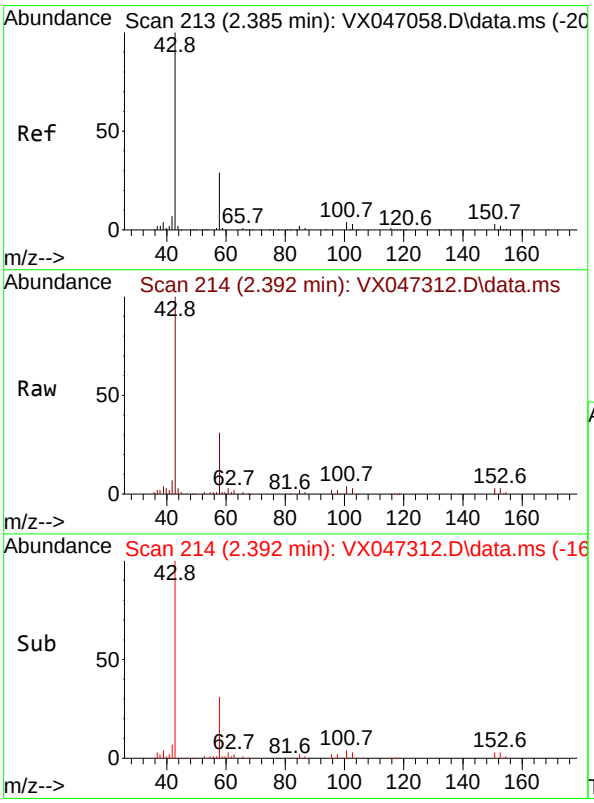
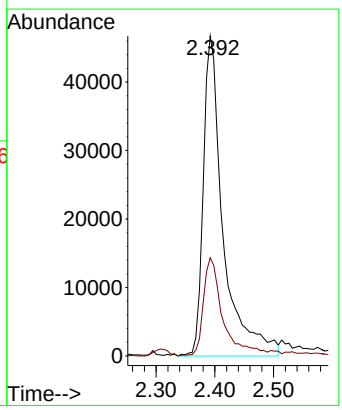
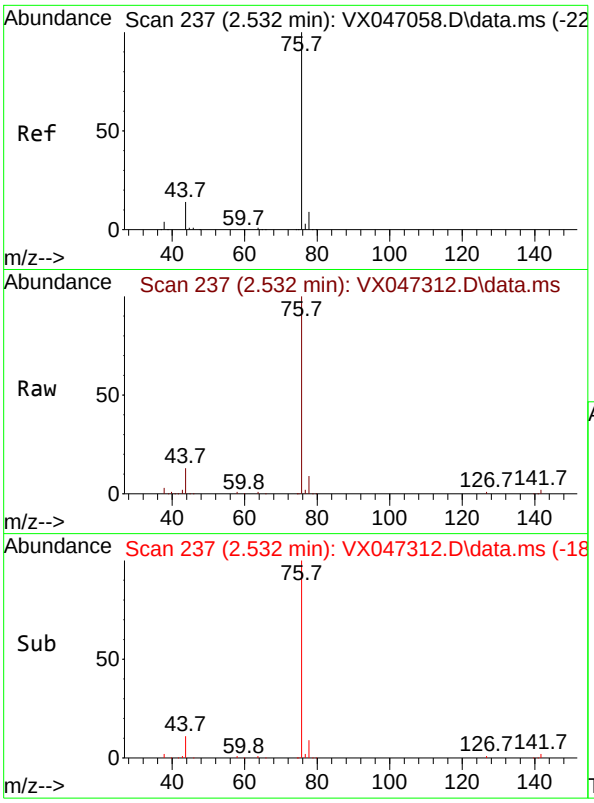


#16
Acetone
Concen: 109.353 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 43 Resp: 109769

Ion	Ratio	Lower	Upper
43	100		
58	30.6	24.0	36.0

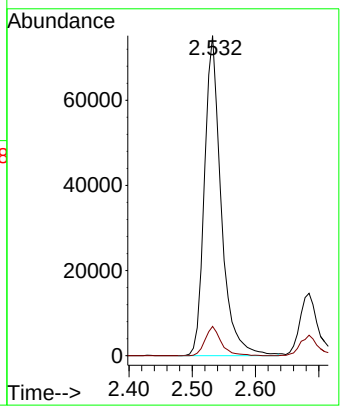




#17
Carbon Disulfide
Concen: 18.890 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 76 Resp: 13814

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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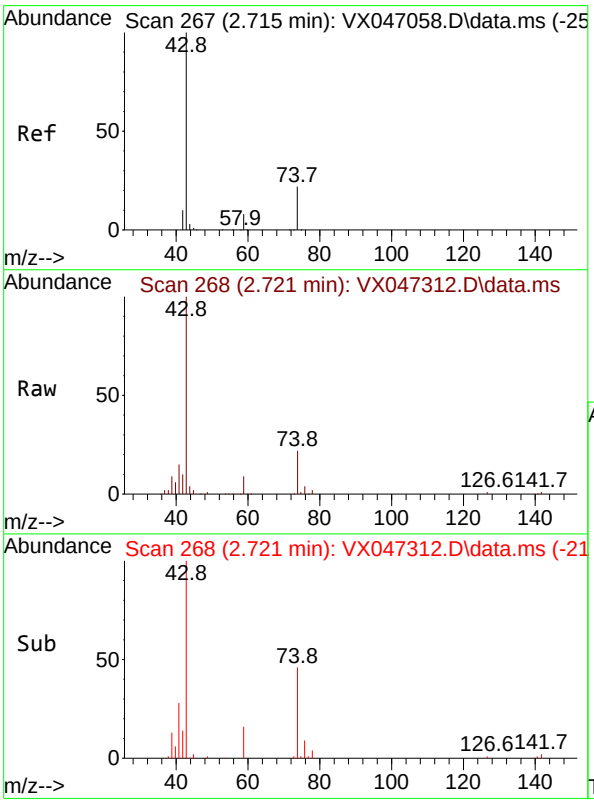
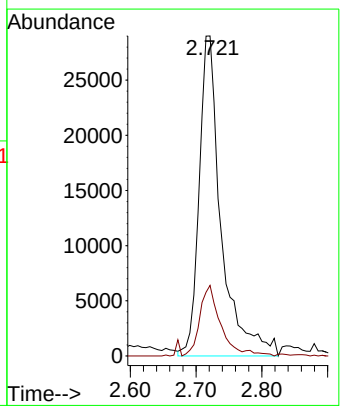
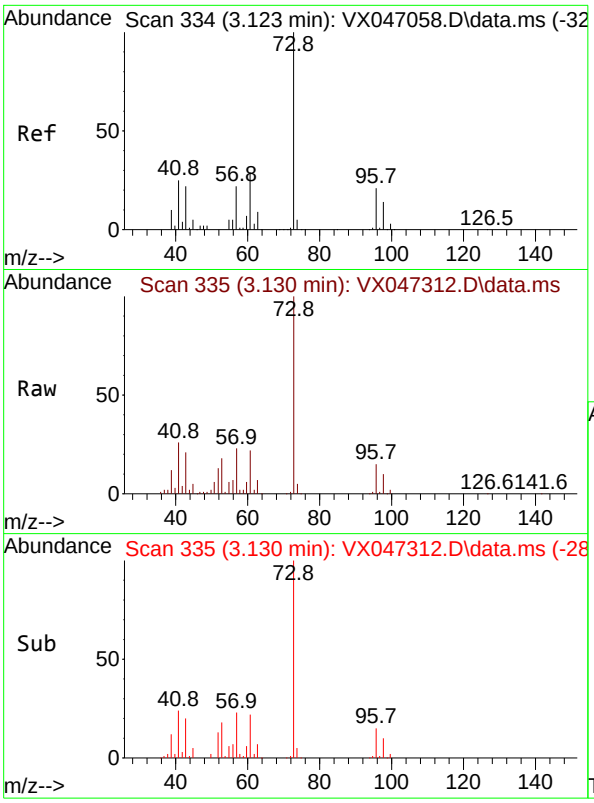


#18
Methyl Acetate
Concen: 25.293 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 43 Resp: 67472

Ion	Ratio	Lower	Upper
43	100		
74	20.9	17.7	26.5

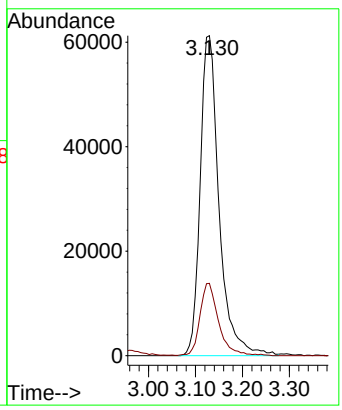




#19
Methyl tert-butyl Ether
Concen: 22.215 ug/l
RT: 3.130 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 73 Resp: 17091

Ion	Ratio	Lower	Upper
73	100		
57	22.6	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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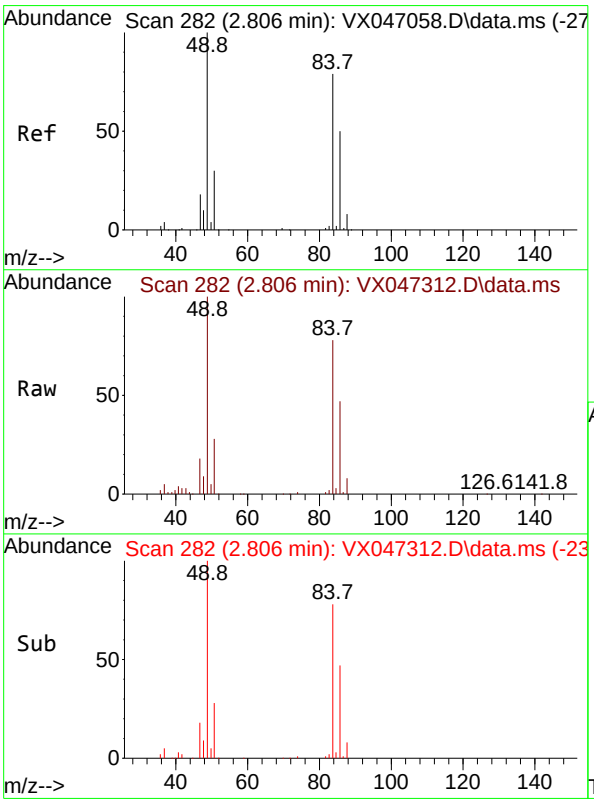
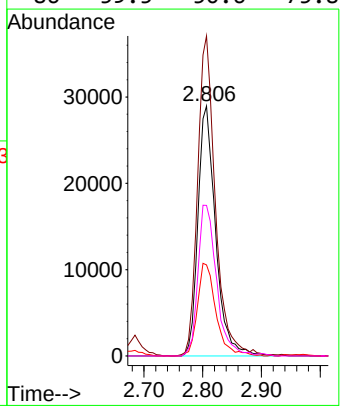
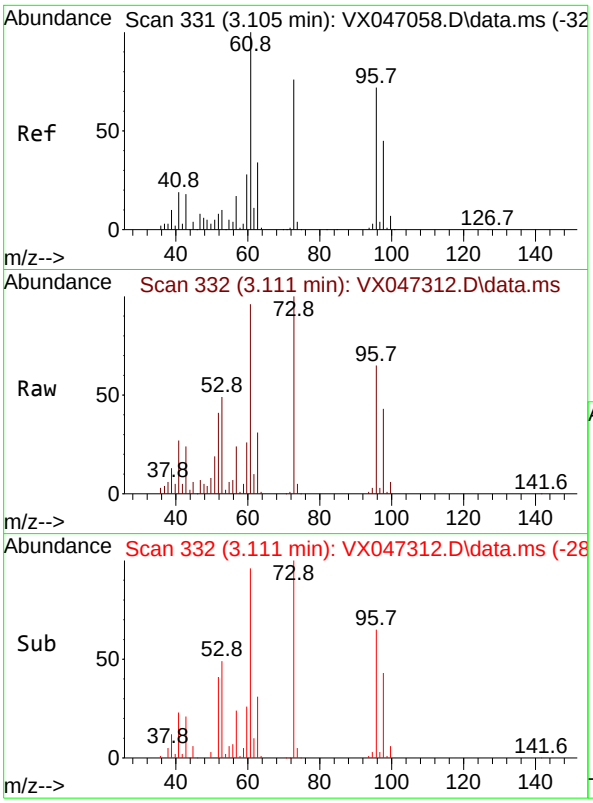


#20
Methylene Chloride
Concen: 21.969 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 84 Resp: 60670

Ion	Ratio	Lower	Upper
84	100		
49	123.6	101.6	152.4
51	35.2	30.3	45.5
86	59.5	50.6	75.8

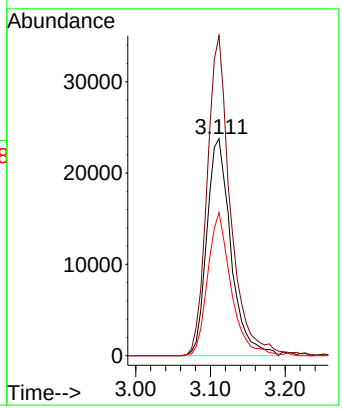




#21
trans-1,2-Dichloroethene
Concen: 20.531 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 96 Resp: 5311

Ion	Ratio	Lower	Upper
96	100		
61	147.5	111.1	166.7
98	66.0	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
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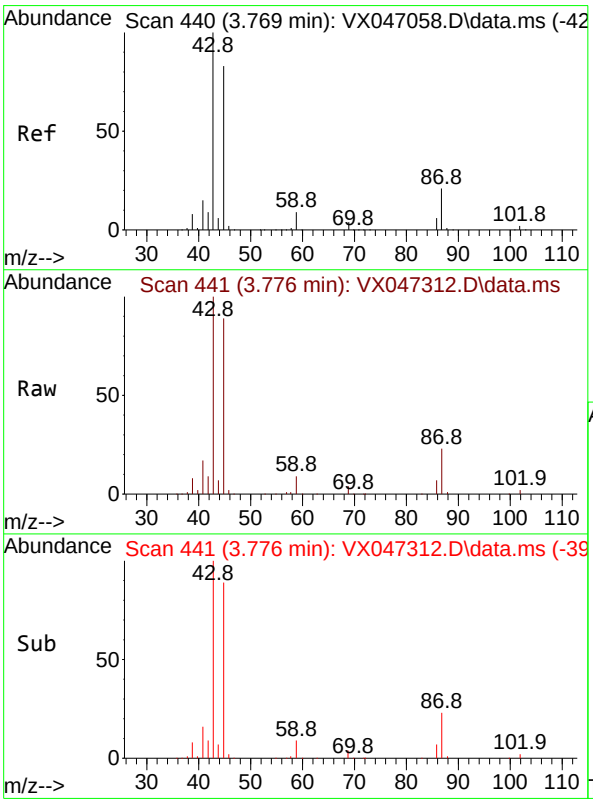
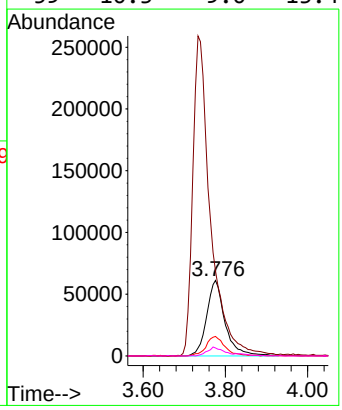
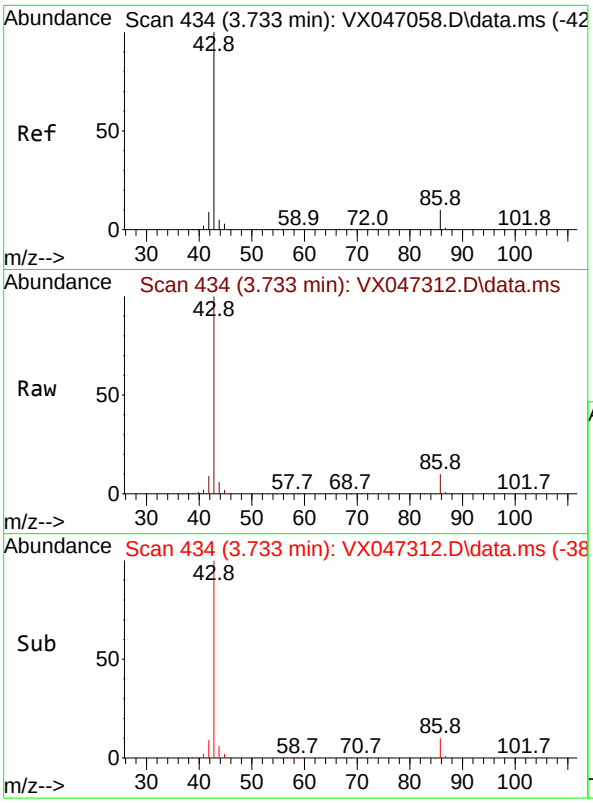


#22
Diisopropyl ether
Concen: 21.575 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 45 Resp: 189542

Ion	Ratio	Lower	Upper
45	100		
43	111.9	96.8	145.2
87	25.8	20.5	30.7
59	10.3	9.0	13.4





#23
Vinyl Acetate
Concen: 110.278 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 43 Resp: 77707

Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
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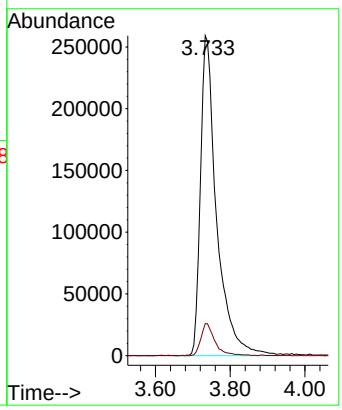
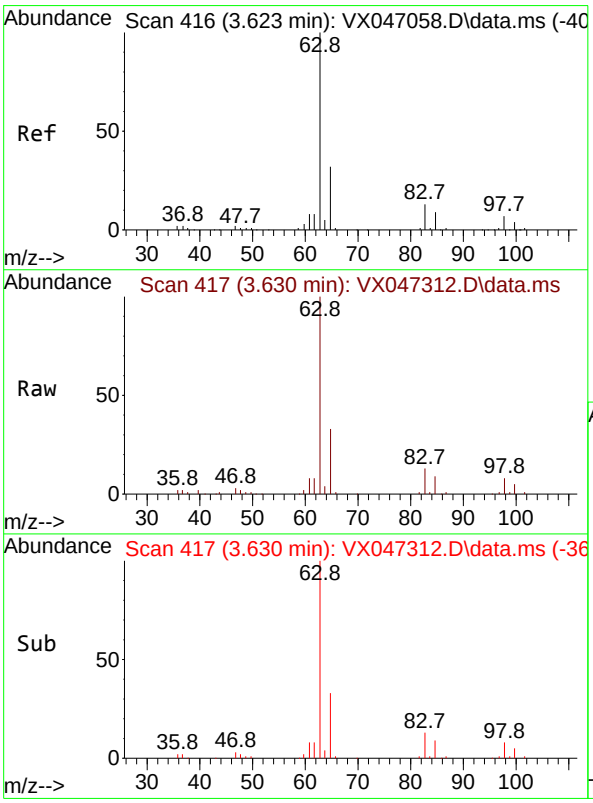
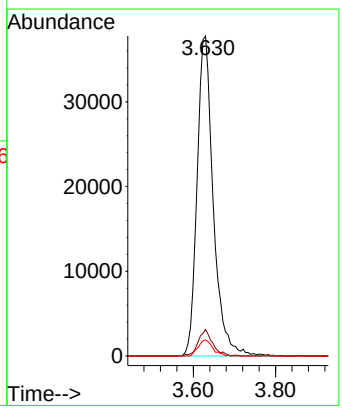


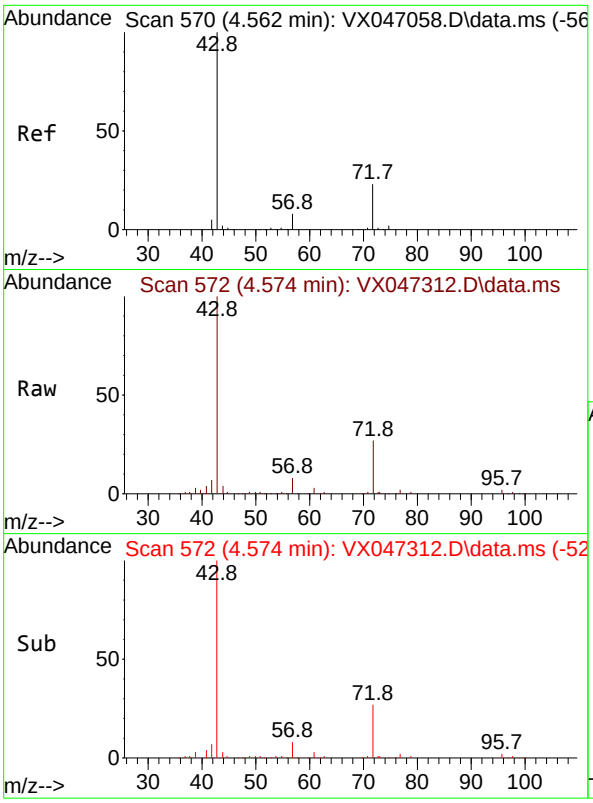


#24
1,1-Dichloroethane
Concen: 21.143 ug/l
RT: 3.630 min Scan# 417
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 63 Resp: 103292

Ion	Ratio	Lower	Upper
63	100		
98	8.3	3.6	10.8
100	5.0	2.3	6.8

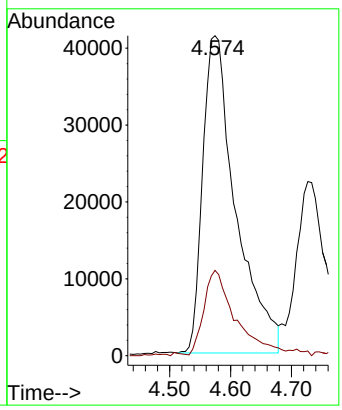




#25
2-Butanone
Concen: 106.560 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.013 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 43 Resp: 15575

Ion	Ratio	Lower	Upper
43	100		
72	27.1	18.8	28.2



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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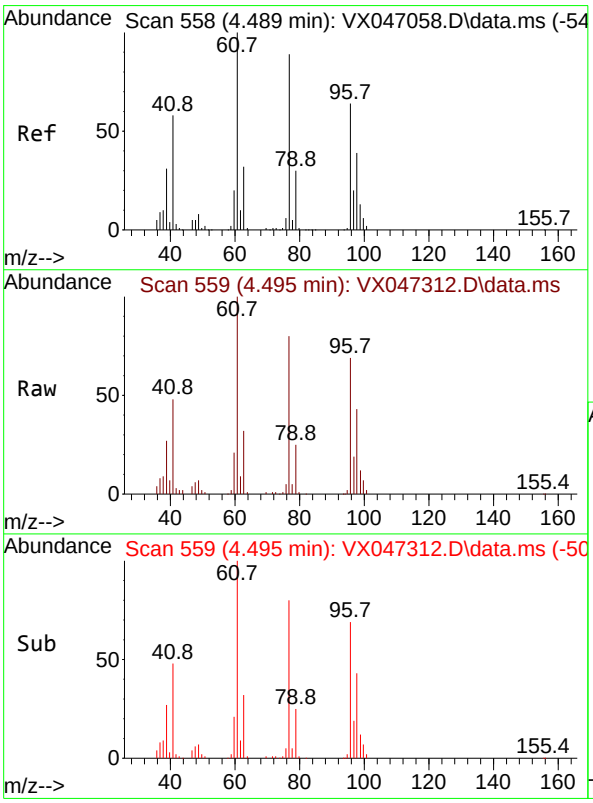
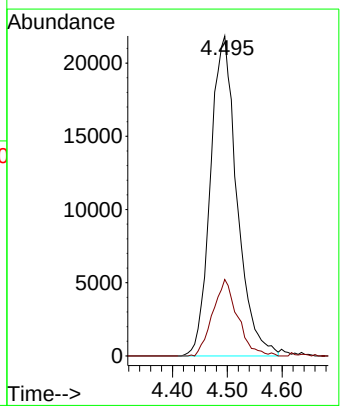
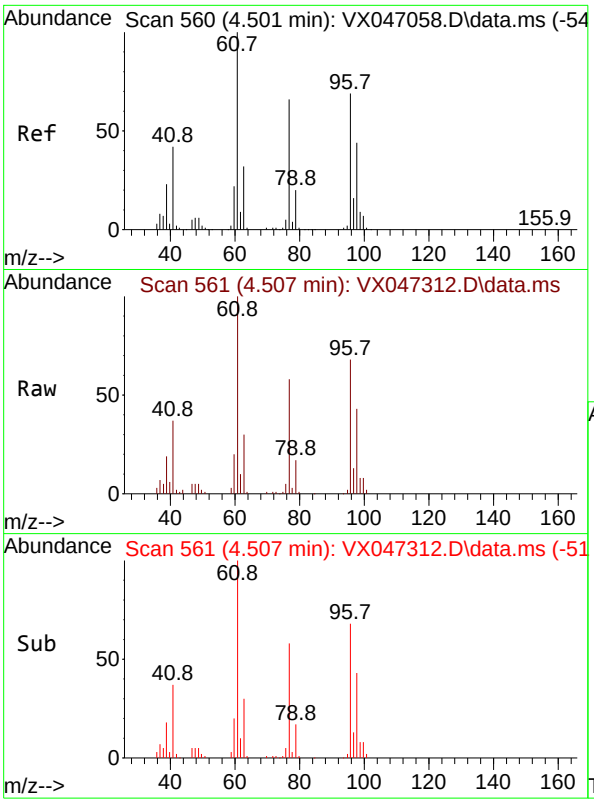


#26
2,2-Dichloropropane
Concen: 19.417 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 77 Resp: 73431

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.4	34.1

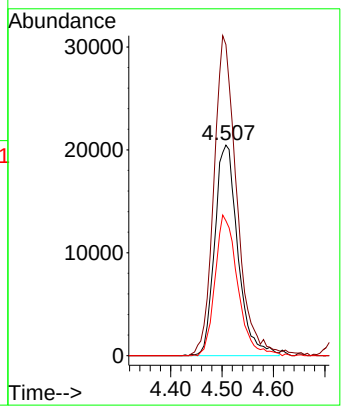




#27
cis-1,2-Dichloroethene
Concen: 20.900 ug/l
RT: 4.507 min Scan# 5
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 96 Resp: 6402

Ion	Ratio	Lower	Upper
96	100		
61	151.3	0.0	298.6
98	65.3	0.0	128.8



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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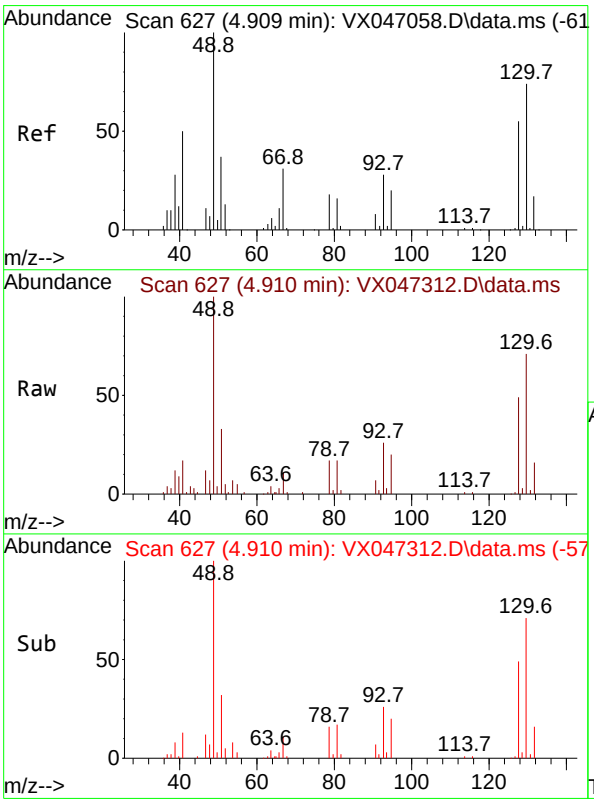
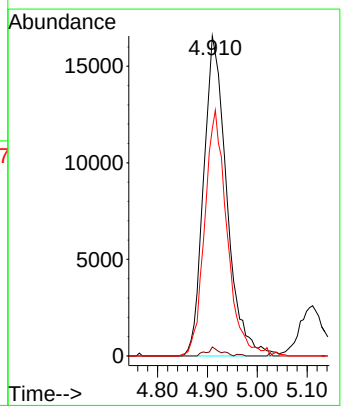
Supervised By :Mahesh Dadoda 08/18/2025

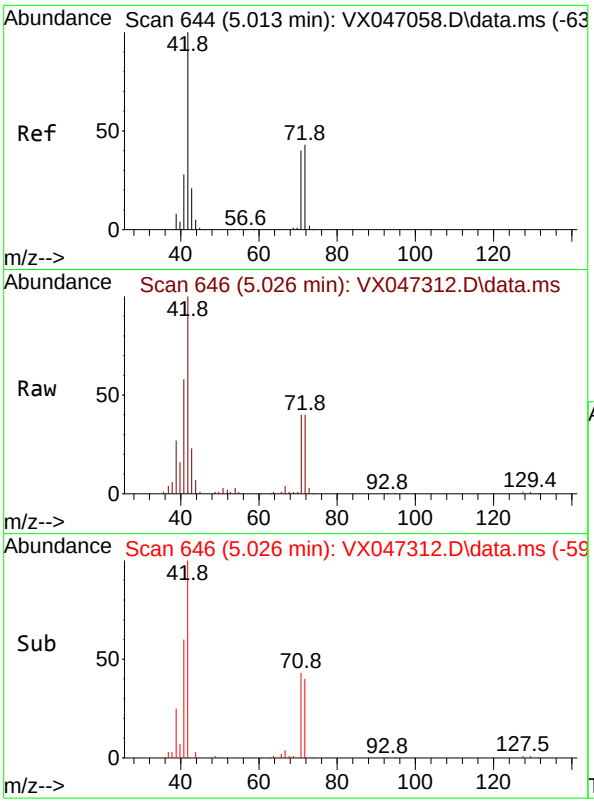


#28
Bromochloromethane
Concen: 23.761 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 49 Resp: 53405

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.8
130	74.4	59.0	88.4





#29
Tetrahydrofuran
Concen: 103.638 ug/l
RT: 5.026 min Scan# 64
Delta R.T. 0.013 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 42 Resp: 9773

Ion	Ratio	Lower	Upper
42	100		
72	44.0	33.7	50.5
71	42.0	31.0	46.4

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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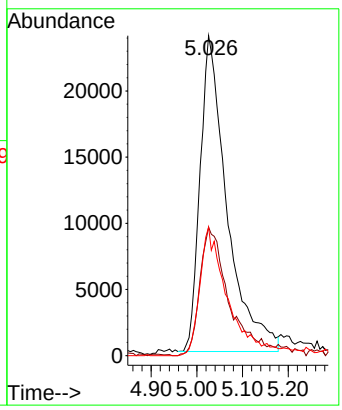
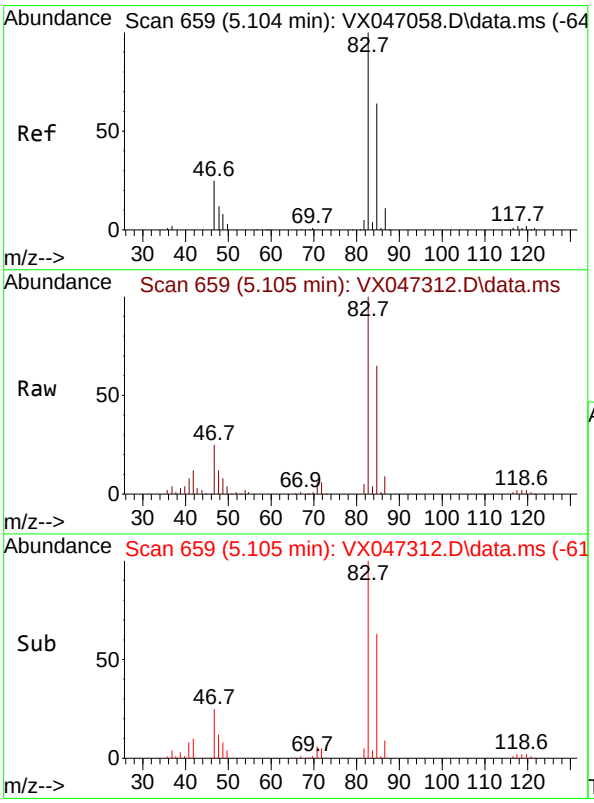
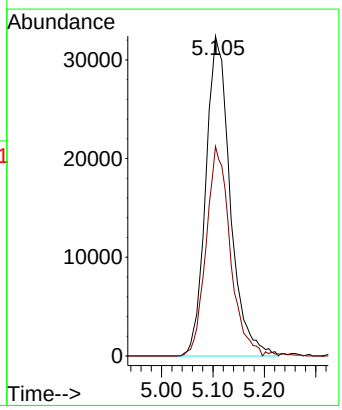


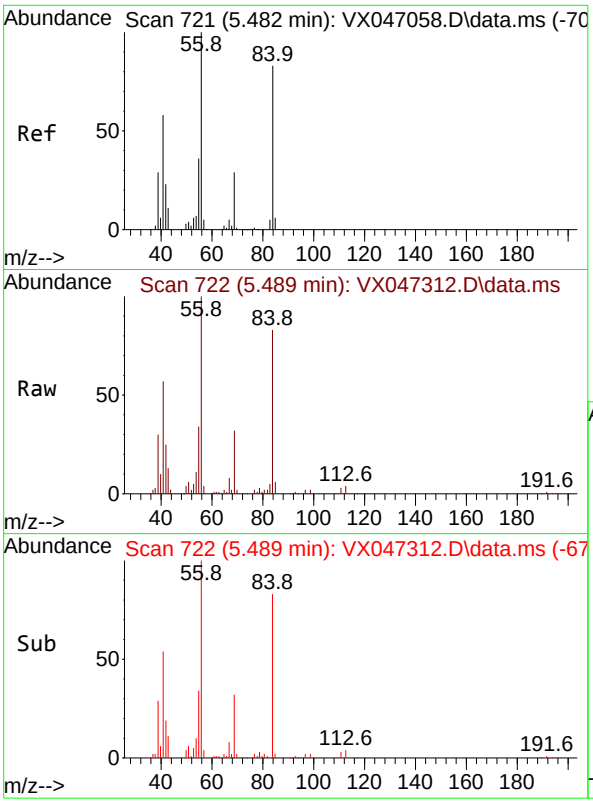


#30
Chloroform
Concen: 21.507 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 83 Resp: 106952

Ion	Ratio	Lower	Upper
83	100		
85	65.5	50.9	76.3

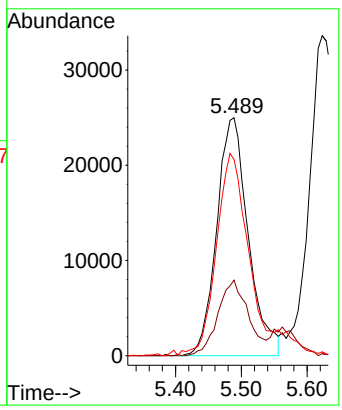




#31
Cyclohexane
Concen: 17.795 ug/l
RT: 5.489 min Scan# 7
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 56 Resp: 8335

Ion	Ratio	Lower	Upper
56	100		
69	31.1	23.3	34.9
84	82.5	66.5	99.7



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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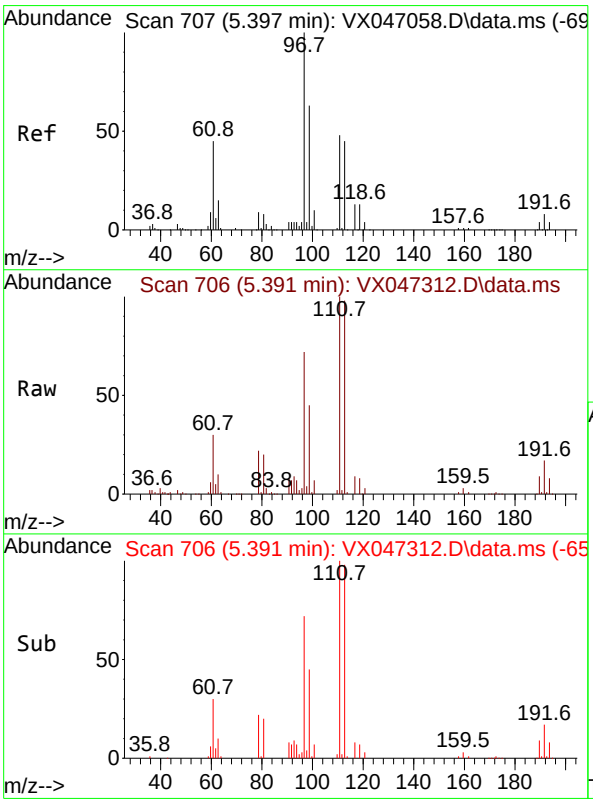
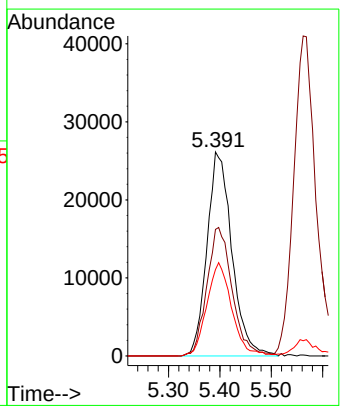
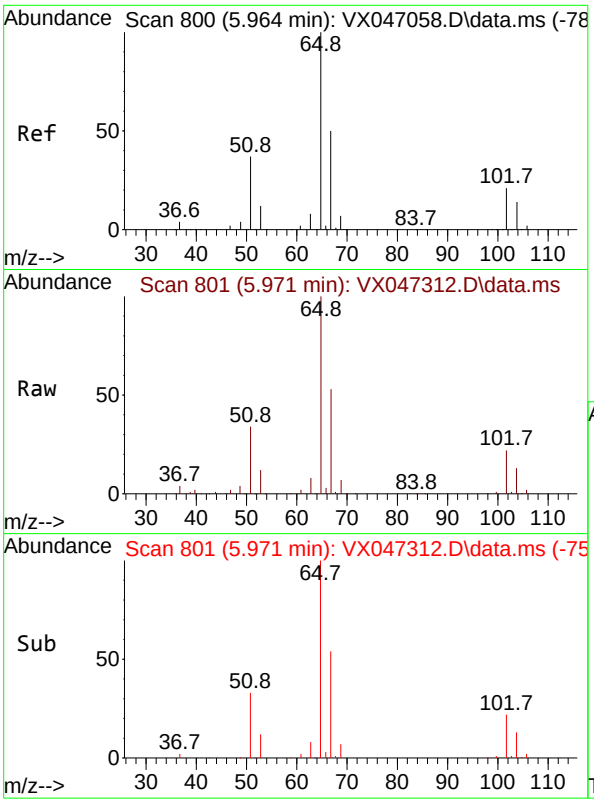


#32
1,1,1-Trichloroethane
Concen: 20.362 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 97 Resp: 87950

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.2	76.8
61	45.7	37.1	55.7

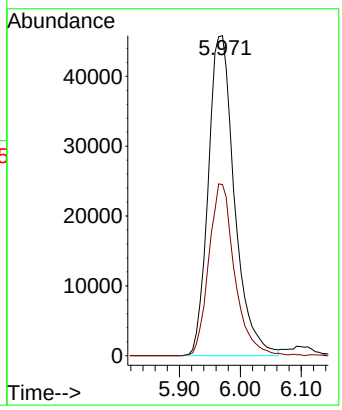




#33
1,2-Dichloroethane-d4
Concen: 54.717 ug/l
RT: 5.971 min Scan# 8
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 65 Resp: 13710

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.8



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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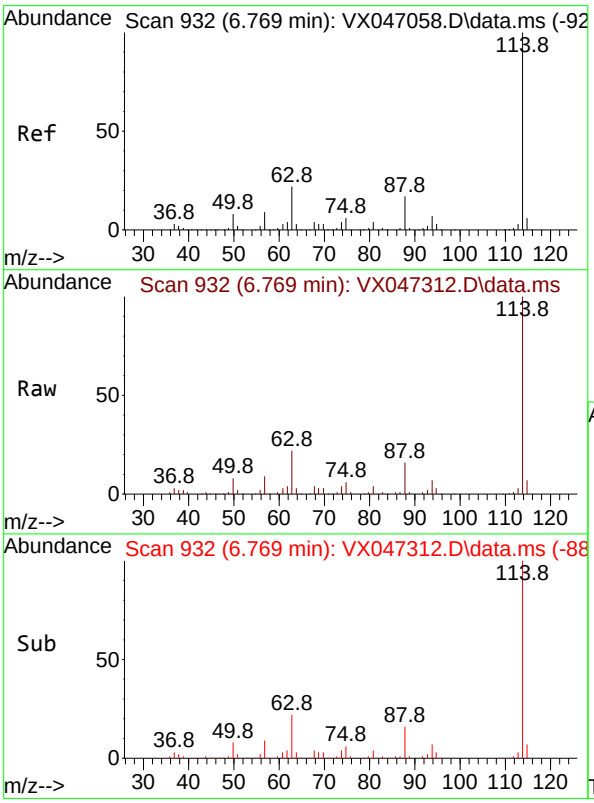
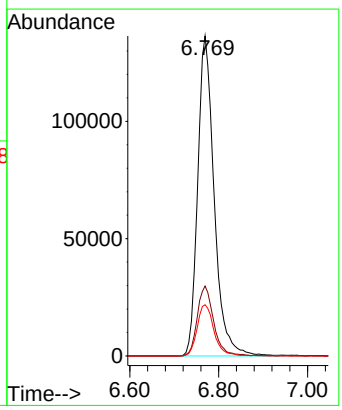
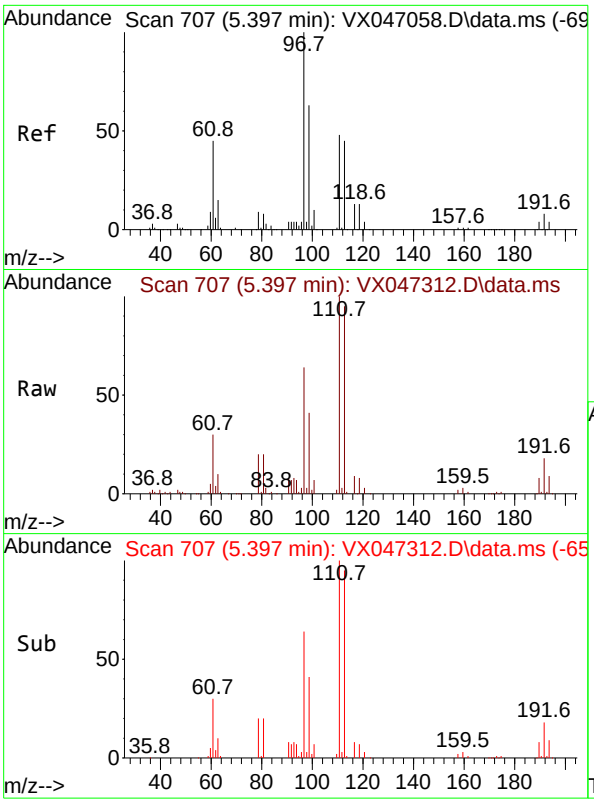


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:114 Resp: 351465

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	43.2
88	16.0	0.0	33.8

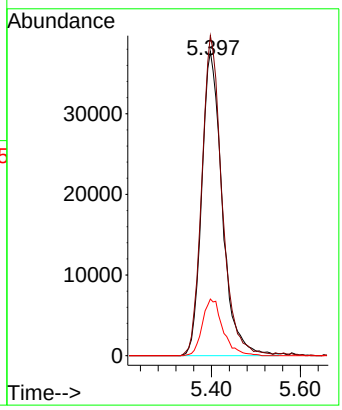




#35
Dibromofluoromethane
Concen: 55.734 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:113 Resp: 12094

Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.6	124.0
192	18.7	14.9	22.3



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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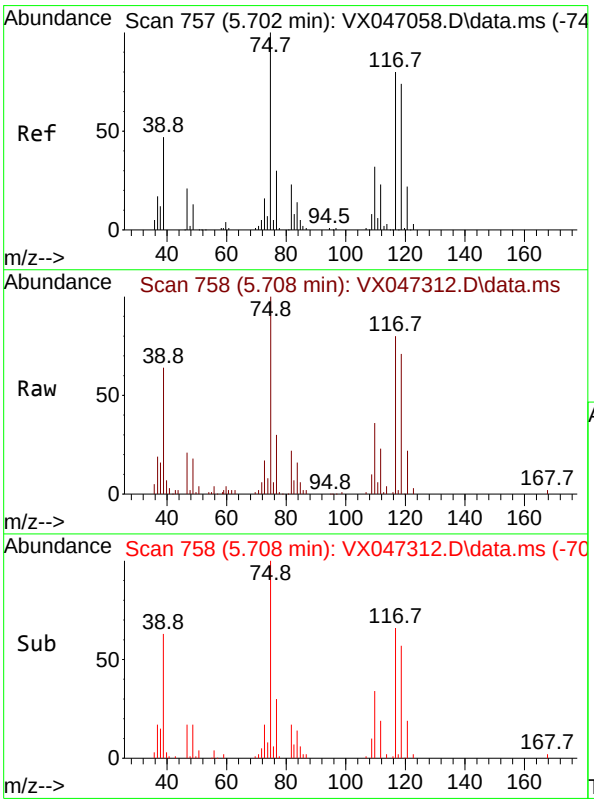
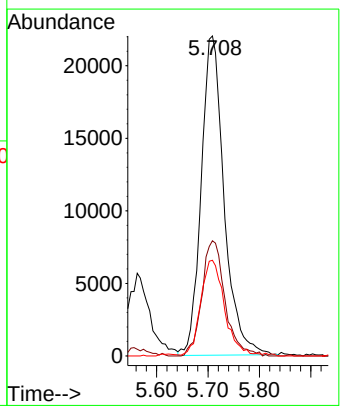
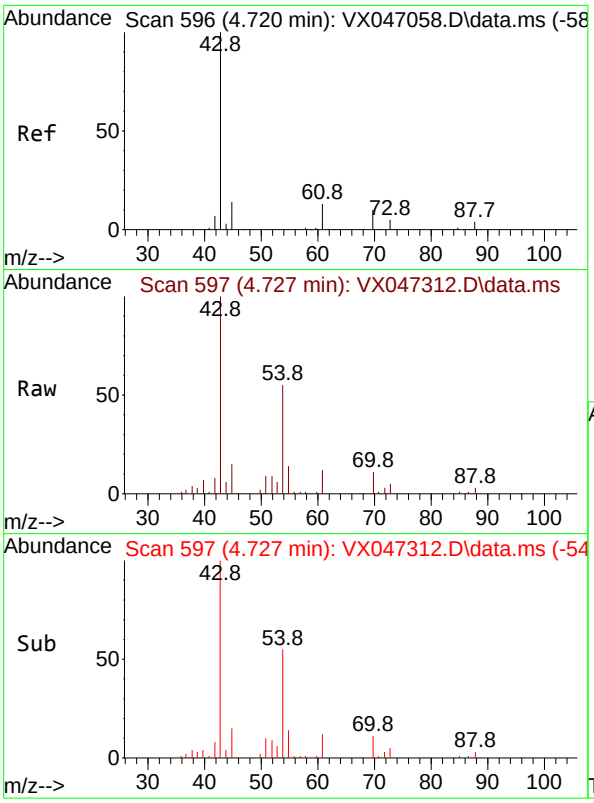


#36
1,1-Dichloropropene
Concen: 18.416 ug/l
RT: 5.708 min Scan# 758
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 75 Resp: 68123

Ion	Ratio	Lower	Upper
75	100		
110	36.5	17.2	51.5
77	30.7	25.1	37.7





#37
Ethyl Acetate
Concen: 23.264 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 43 Resp: 7929

Ion	Ratio	Lower	Upper
43	100		
61	12.1	10.2	15.2
70	8.5	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations
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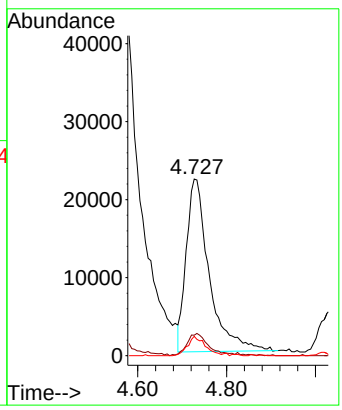
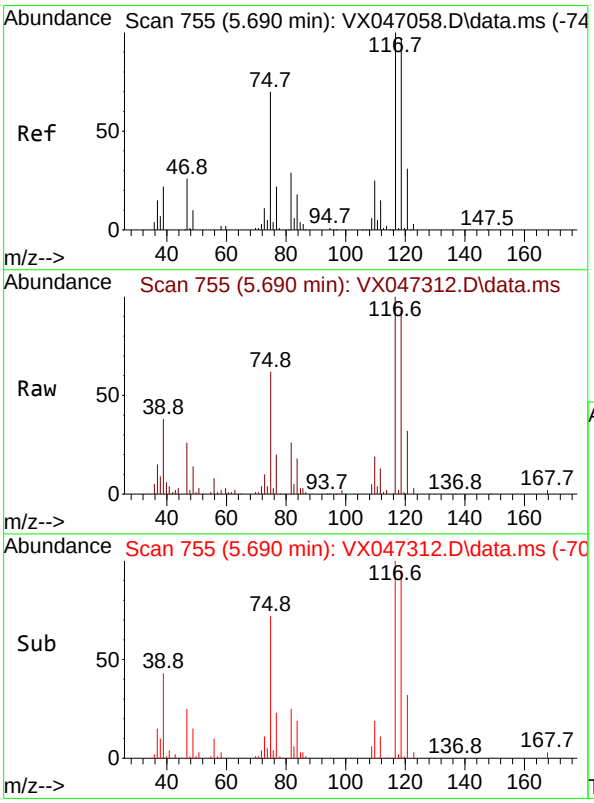
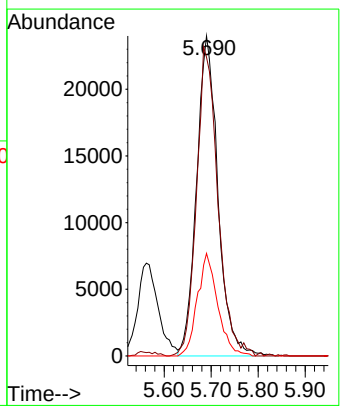


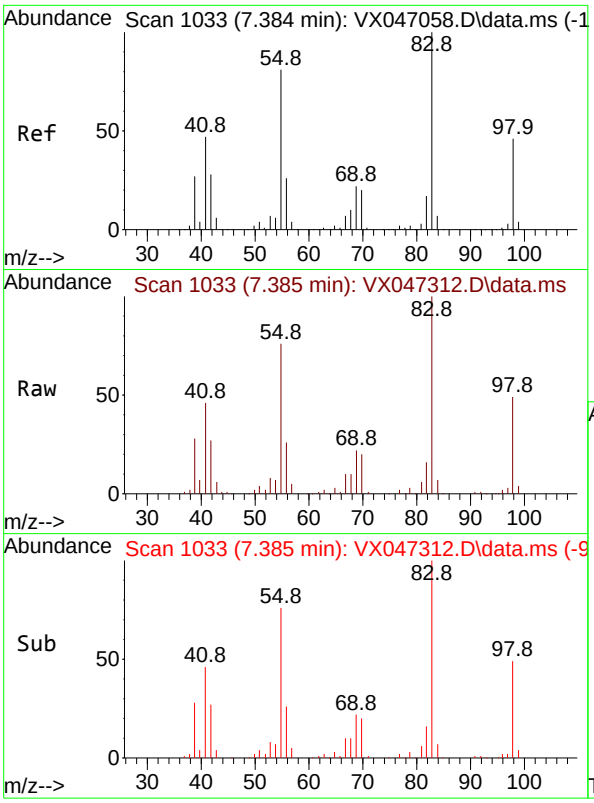


#38
Carbon Tetrachloride
Concen: 19.234 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:117 Resp: 75937

Ion	Ratio	Lower	Upper
117	100		
119	92.9	76.6	115.0
121	32.1	24.4	36.6

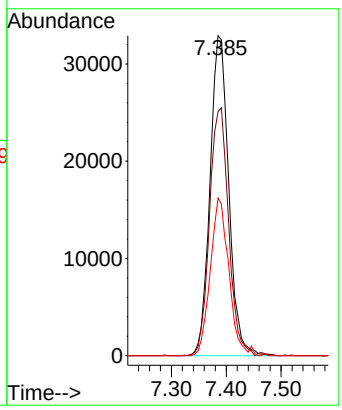




#39
Methylcyclohexane
Concen: 16.879 ug/l
RT: 7.385 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 83 Resp: 7795

Ion	Ratio	Lower	Upper
83	100		
55	76.3	64.5	96.7
98	49.2	36.9	55.3



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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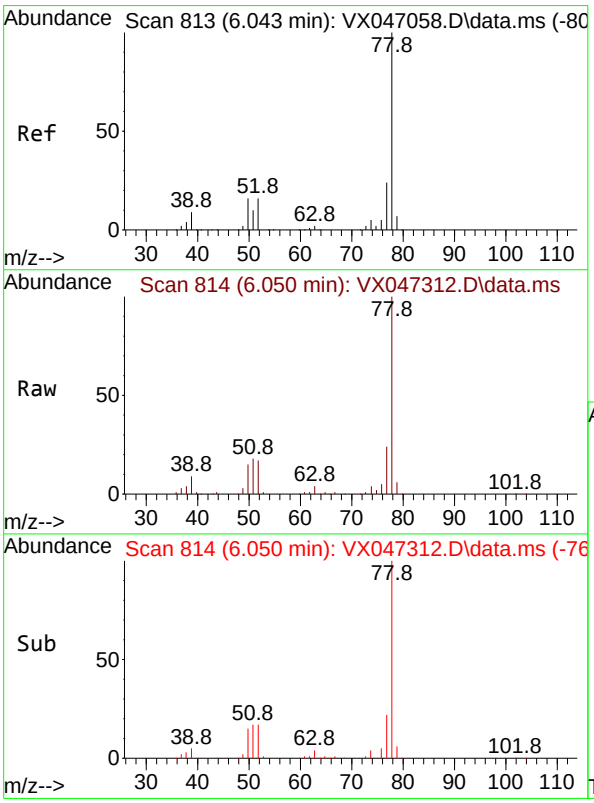
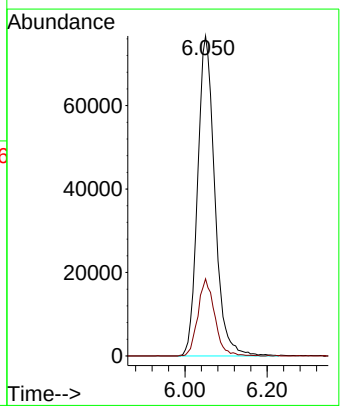
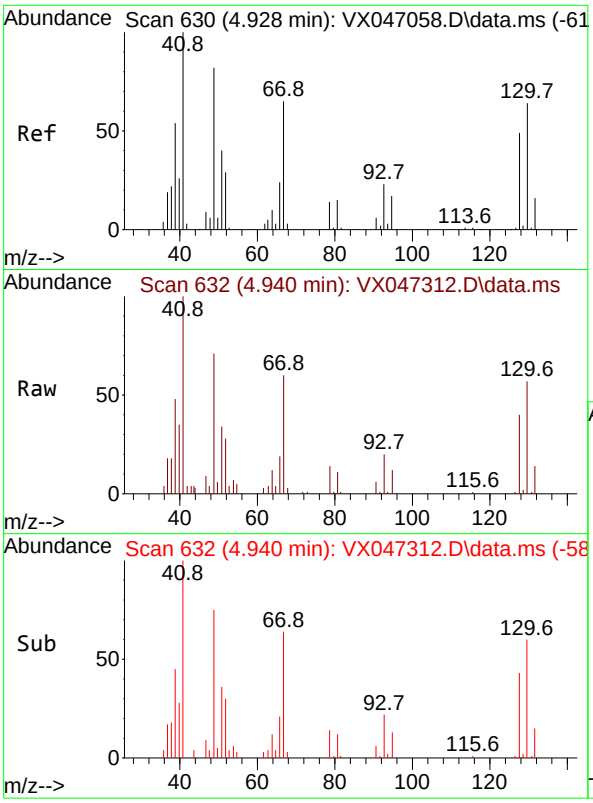


#40
Benzene
Concen: 20.699 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 78 Resp: 221589

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.4

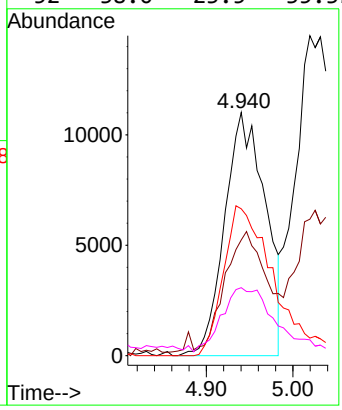




#41
Methacrylonitrile
Concen: 20.202 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.013 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 41 Resp: 3600

Ion	Ratio	Lower	Upper
41	100		
39	50.4	44.2	66.2
67	78.2	56.4	84.6
52	38.0	23.5	35.3#



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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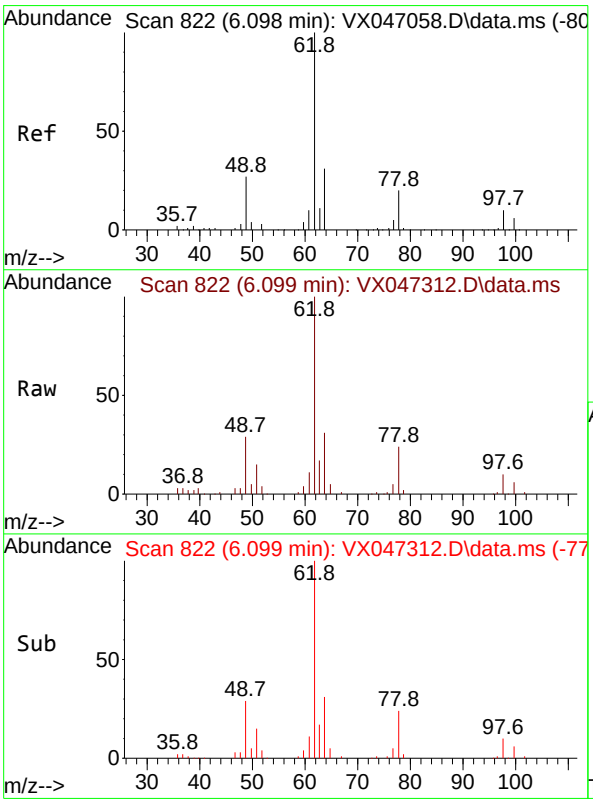
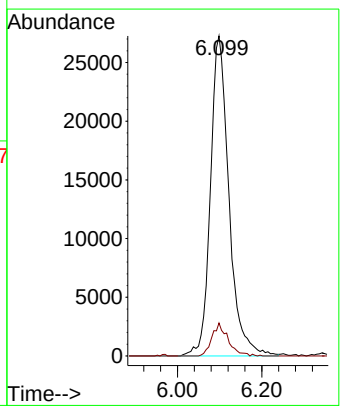
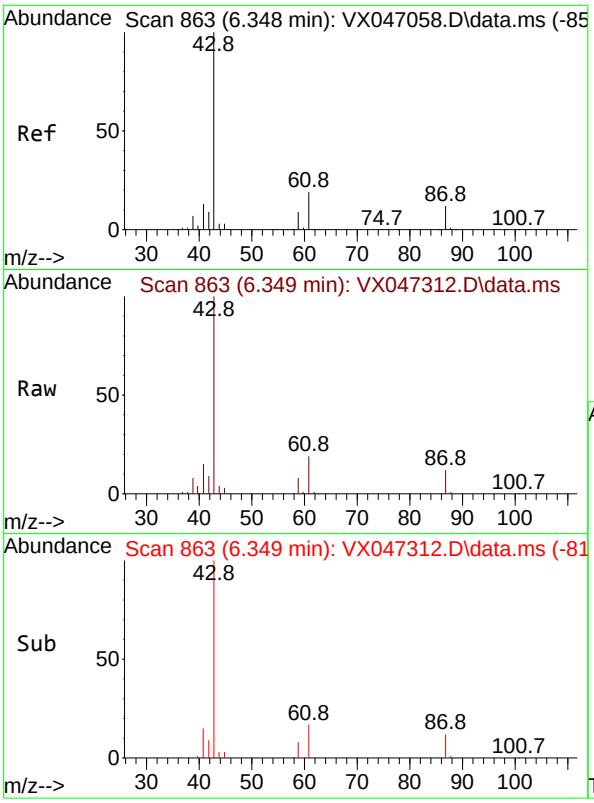


#42
1,2-Dichloroethane
Concen: 22.036 ug/l
RT: 6.099 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 62 Resp: 83097

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	18.8

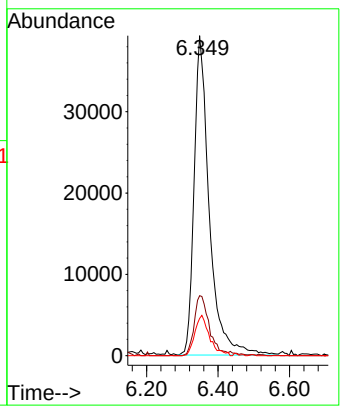




#43
Isopropyl Acetate
Concen: 21.781 ug/l
RT: 6.349 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 43 Resp: 11574

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.1	22.7
87	12.2	9.7	14.5



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations
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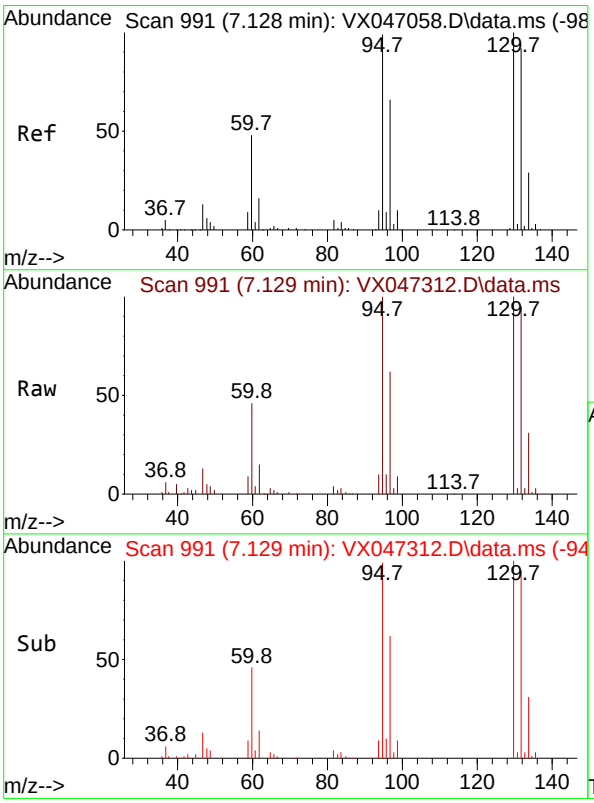
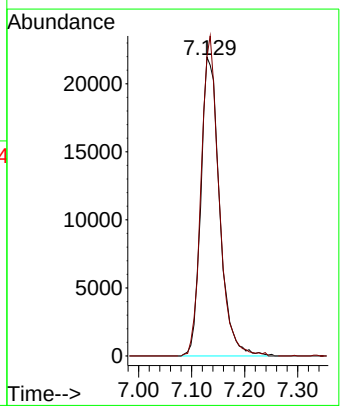
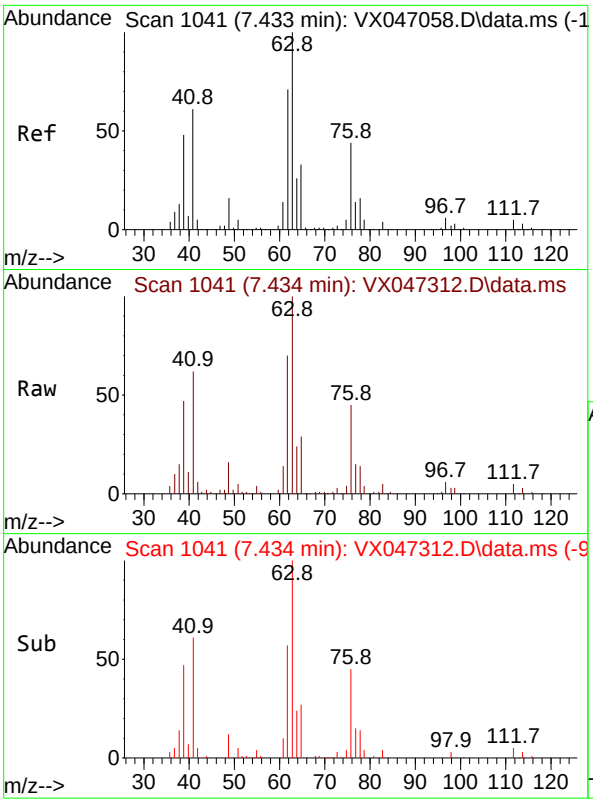


#44
Trichloroethene
Concen: 19.598 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:130 Resp: 53800

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	198.6

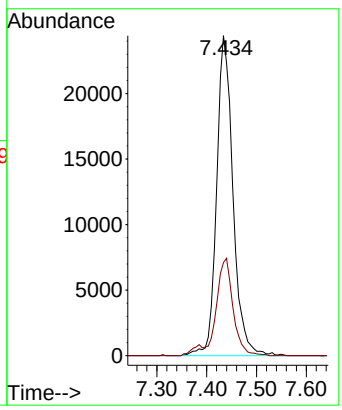




#45
1,2-Dichloropropane
Concen: 20.747 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 63 Resp: 5562

Ion	Ratio	Lower	Upper
63	100		
65	29.1	26.3	39.5



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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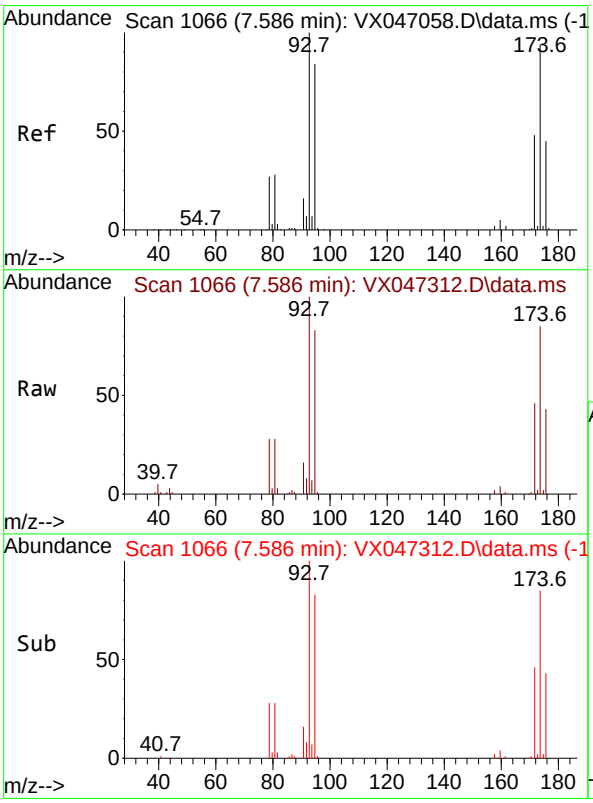
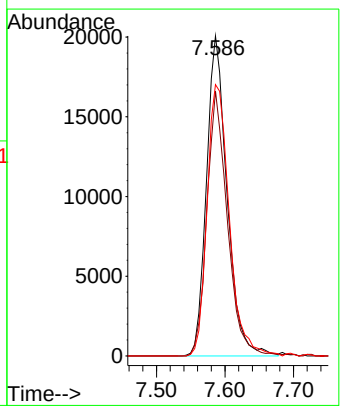
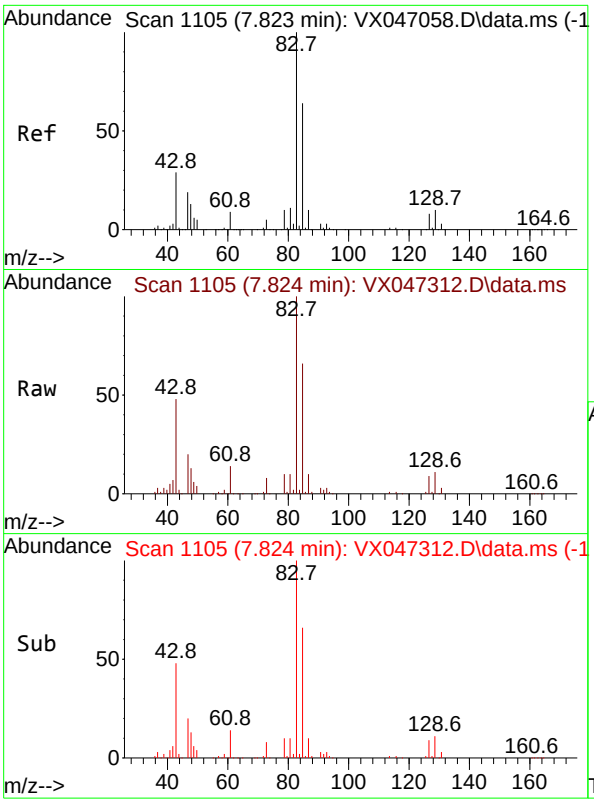


#46
Dibromomethane
Concen: 22.334 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 93 Resp: 41993

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.9	98.9
174	91.3	74.6	112.0

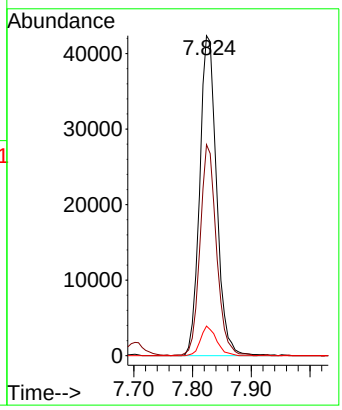




#47
Bromodichloromethane
Concen: 21.180 ug/l
RT: 7.824 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 83 Resp: 8476

Ion	Ratio	Lower	Upper
83	100		
85	65.9	49.9	74.9
127	9.2	6.6	10.0



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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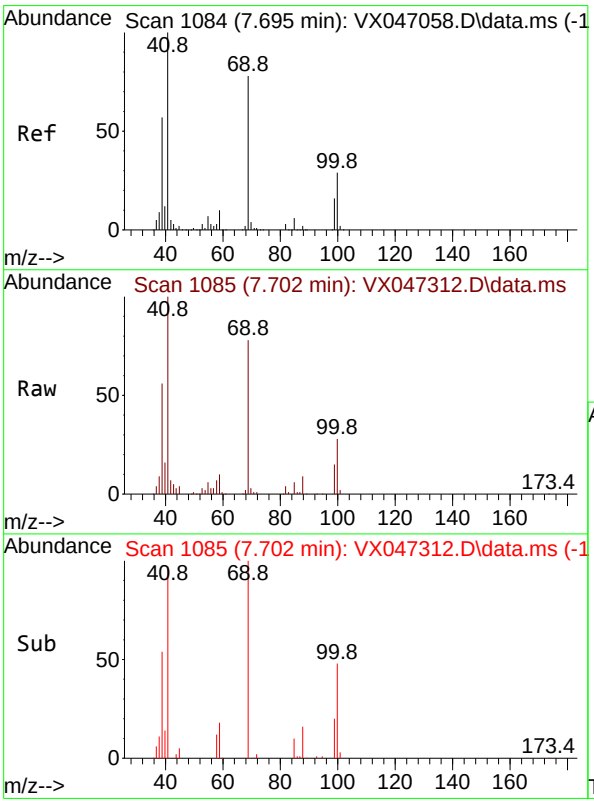
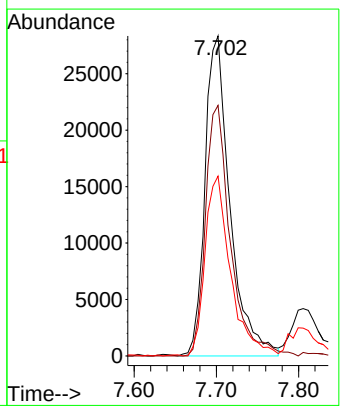
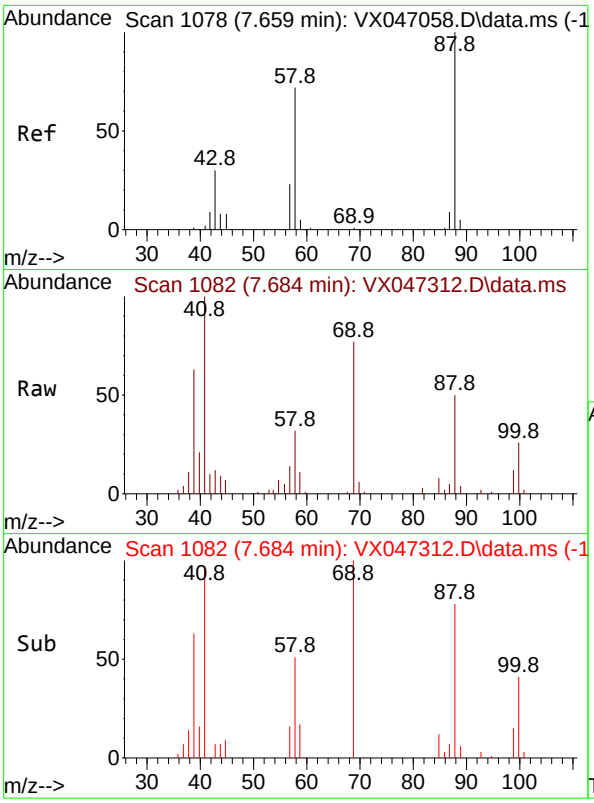


#48
Methyl methacrylate
Concen: 20.720 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 41 Resp: 59981

Ion	Ratio	Lower	Upper
41	100		
69	78.0	62.3	93.5
39	57.4	44.8	67.2





#49
1,4-Dioxane
Concen: 386.524 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.025 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 88 Resp: 1272

Ion	Ratio	Lower	Upper
88	100		
43	38.1	33.6	50.4
58	70.0	58.8	88.2

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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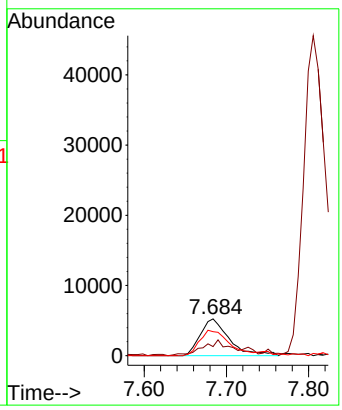
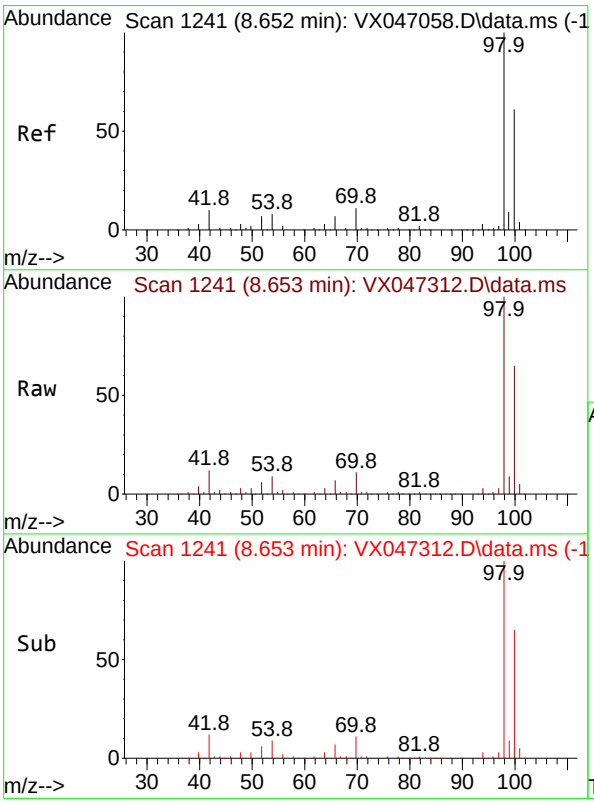
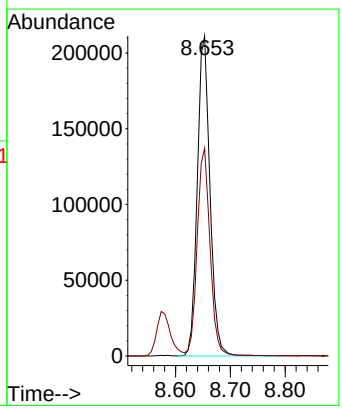


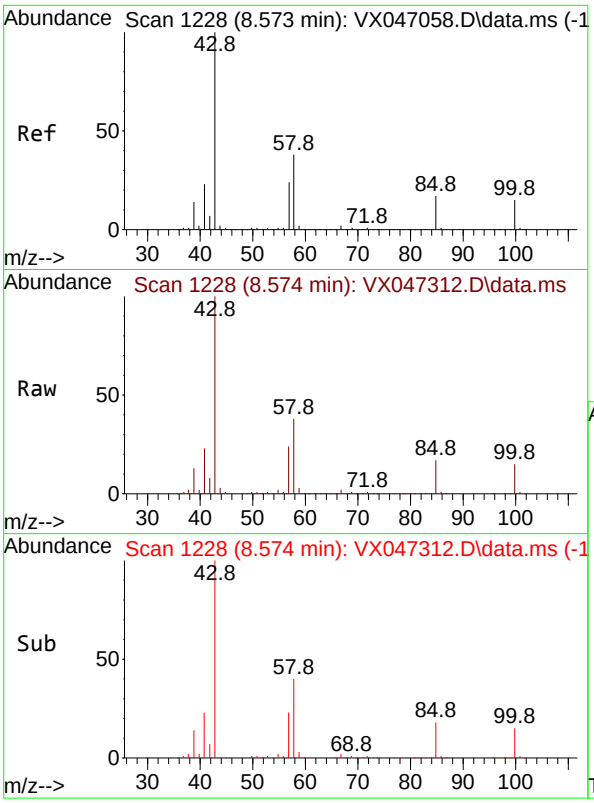


#50
Toluene-d8
Concen: 48.402 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 98 Resp: 340158

Ion	Ratio	Lower	Upper
98	100		
100	65.5	53.3	79.9

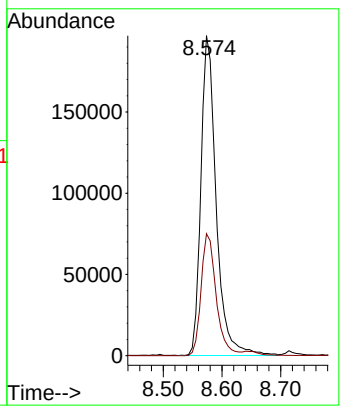




#51
4-Methyl-2-Pentanone
Concen: 112.824 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 43 Resp: 35634

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.6	45.8



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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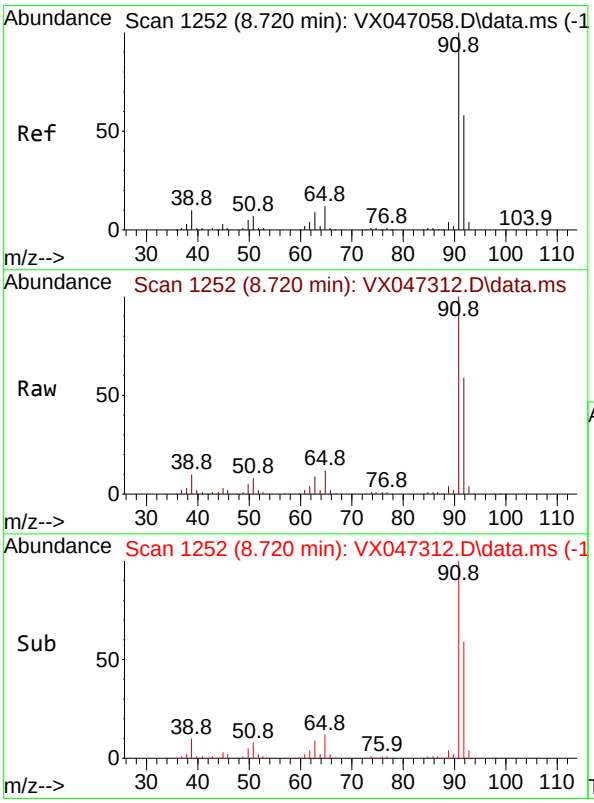
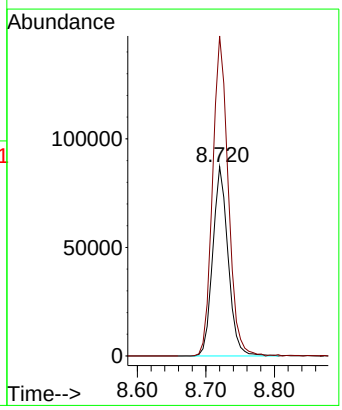
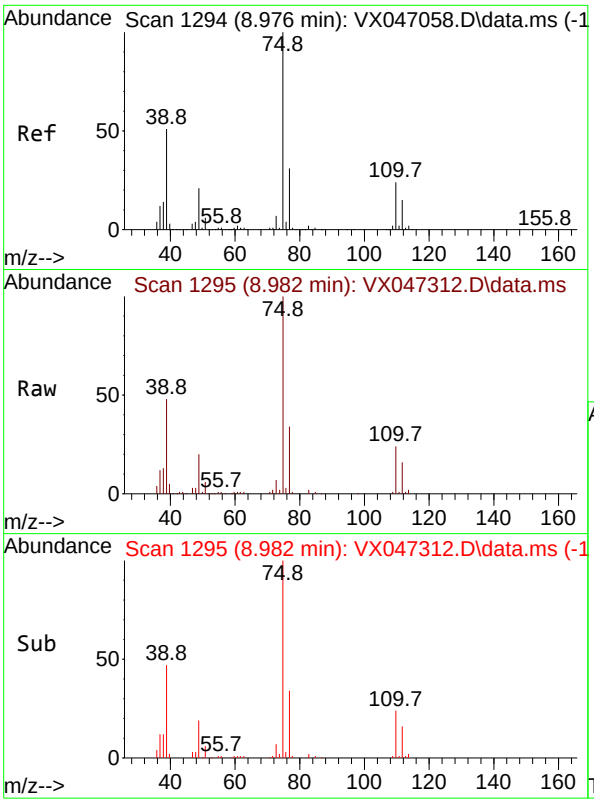


#52
Toluene
Concen: 20.566 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 92 Resp: 135372

Ion	Ratio	Lower	Upper
92	100		
91	172.2	137.9	206.9

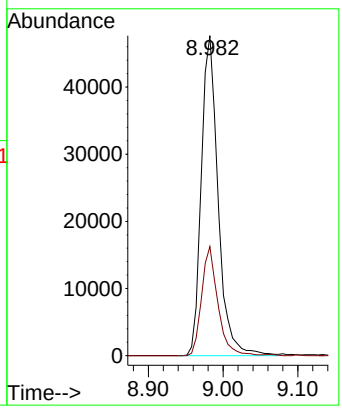




#53
t-1,3-Dichloropropene
Concen: 19.701 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 75 Resp: 7445

Ion	Ratio	Lower	Upper
75	100		
77	34.1	24.5	36.7



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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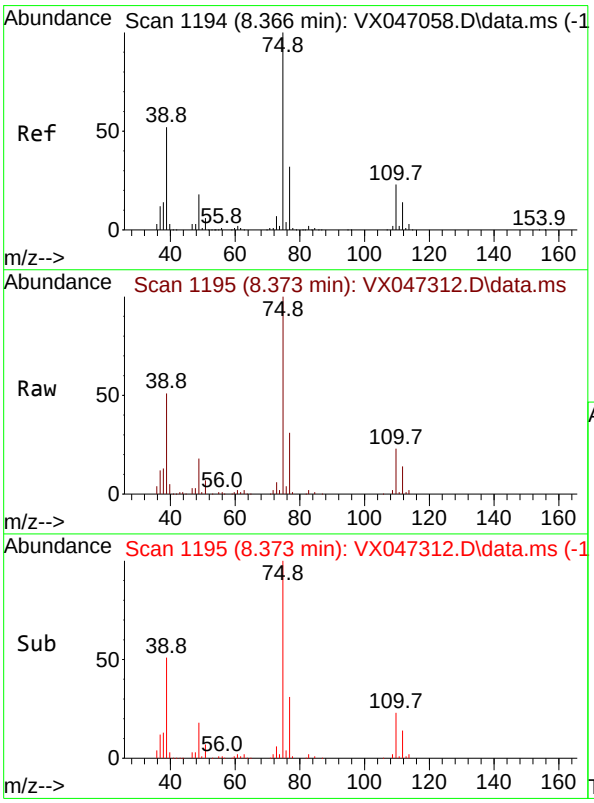
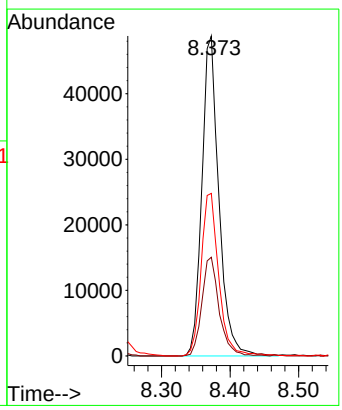
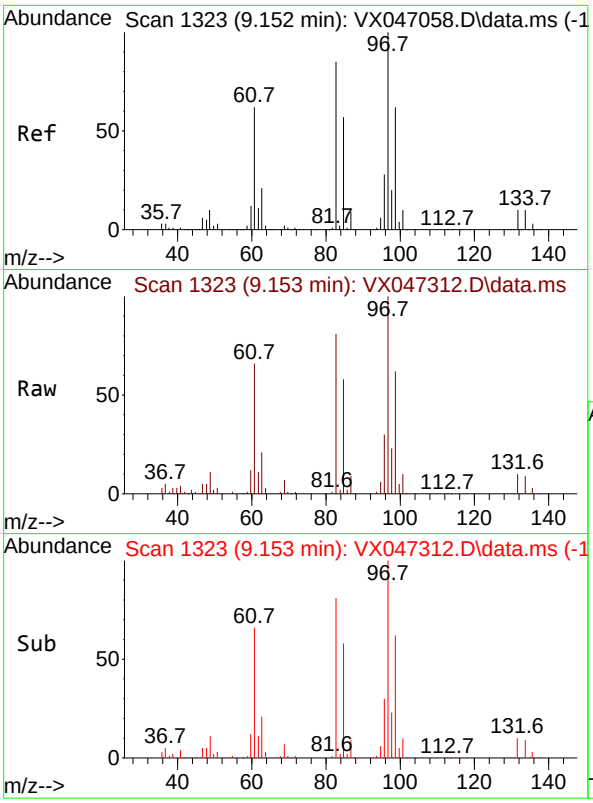


#54
cis-1,3-Dichloropropene
Concen: 20.406 ug/l
RT: 8.373 min Scan# 1195
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 75 Resp: 84401

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.4	38.0
39	48.9	41.8	62.6

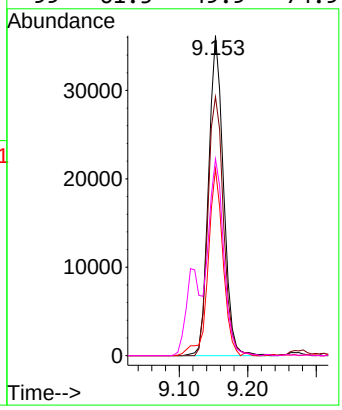




#55
1,1,2-Trichloroethane
Concen: 22.240 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 97 Resp: 5490

Ion	Ratio	Lower	Upper
97	100		
83	80.9	68.0	102.0
85	58.3	45.2	67.8
99	61.5	49.9	74.9



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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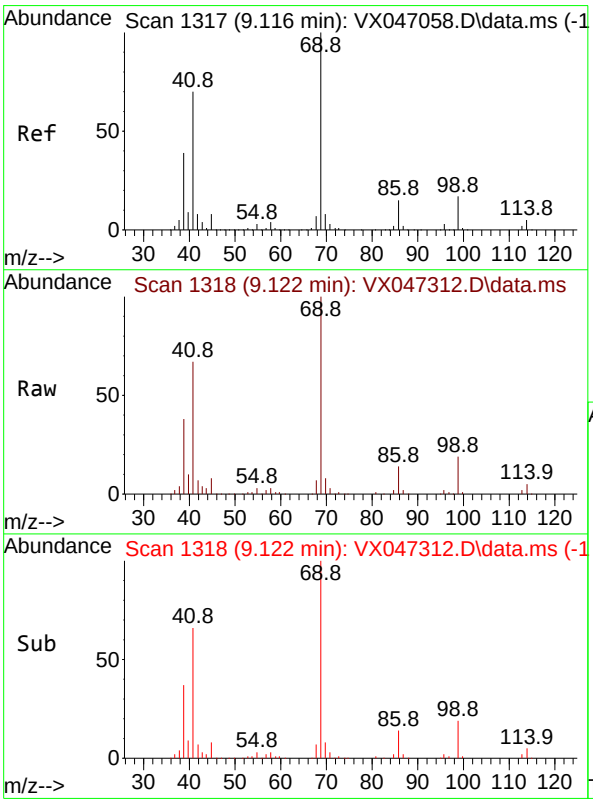
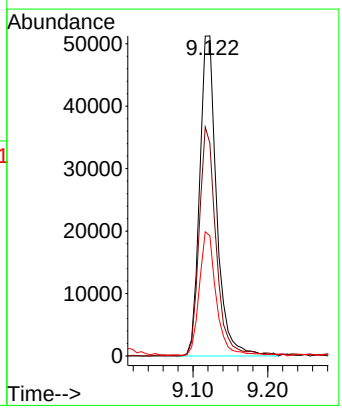
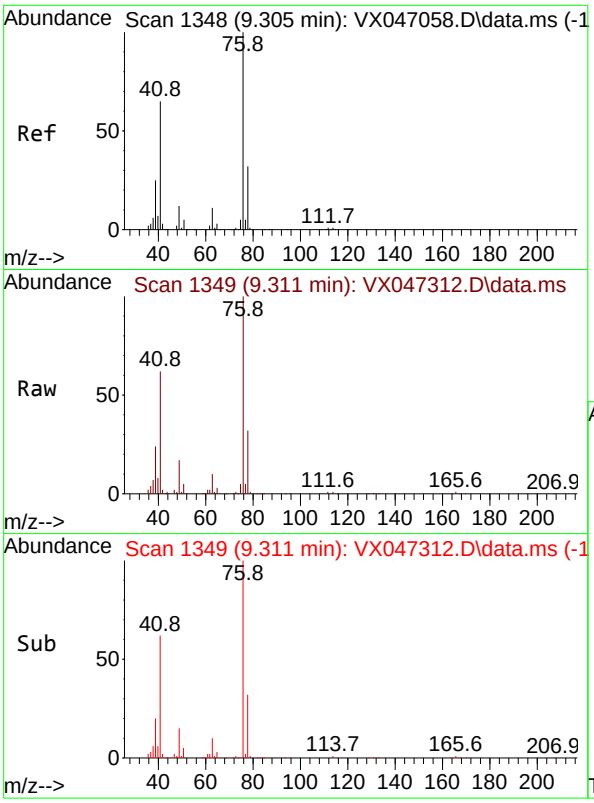


#56
Ethyl methacrylate
Concen: 22.128 ug/l
RT: 9.122 min Scan# 1318
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 69 Resp: 80865

Ion	Ratio	Lower	Upper
69	100		
41	71.9	56.1	84.1
39	39.5	31.1	46.7

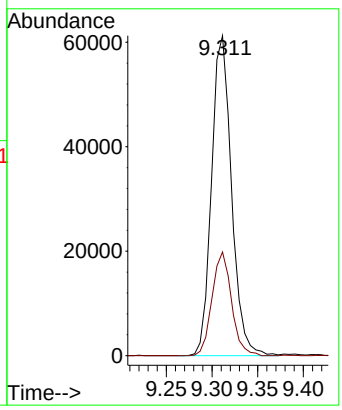




#57
1,3-Dichloropropane
Concen: 21.679 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 76 Resp: 9300

Ion	Ratio	Lower	Upper
76	100		
78	31.5	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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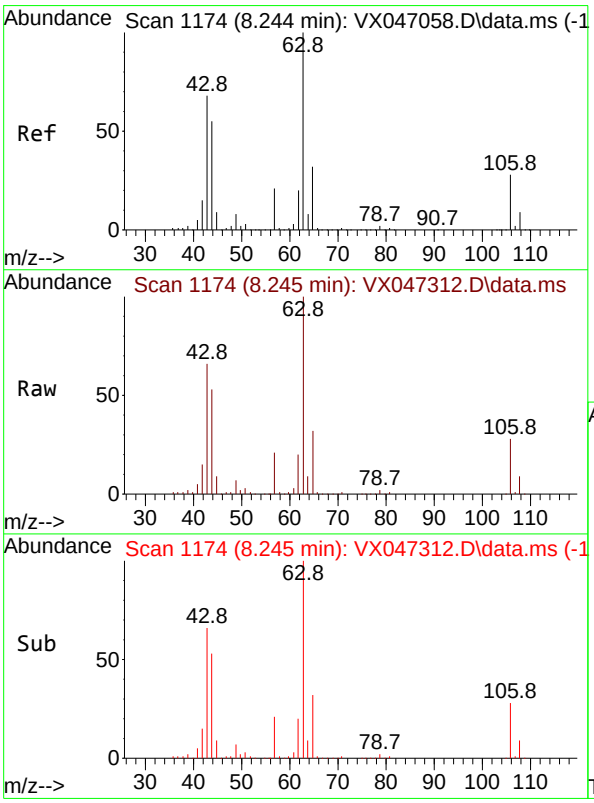
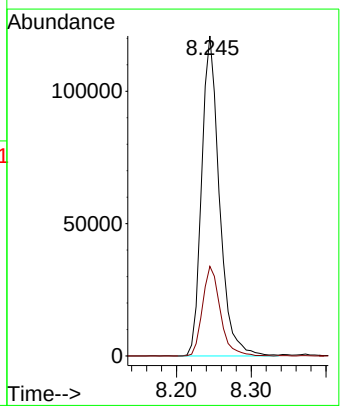
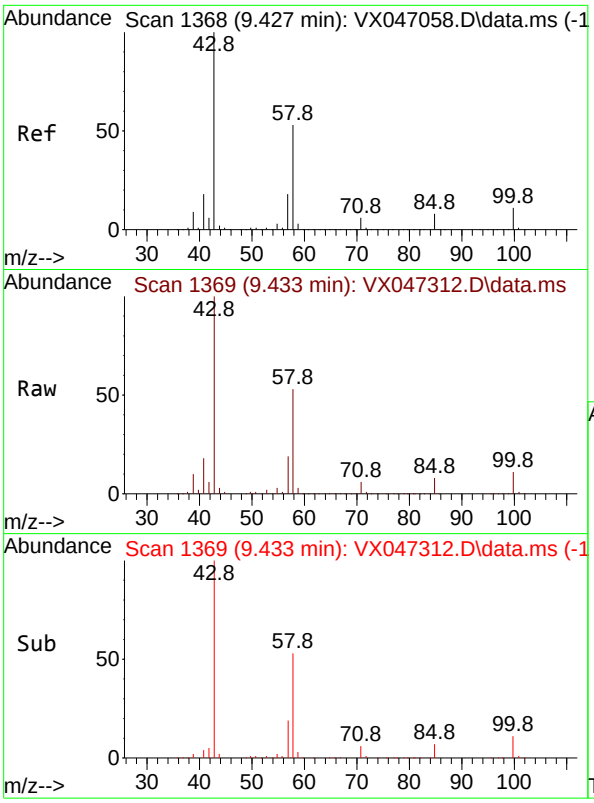


#58
2-Chloroethyl Vinyl ether
Concen: 98.129 ug/l
RT: 8.245 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 63 Resp: 199555

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.2	33.4

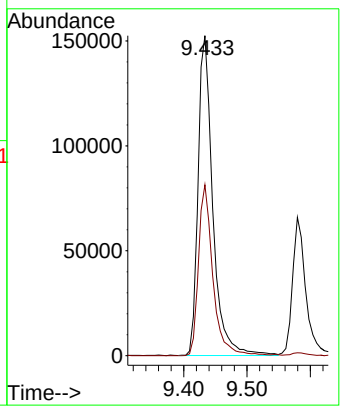




#59
2-Hexanone
Concen: 118.411 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 43 Resp: 24709

Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.5	79.5



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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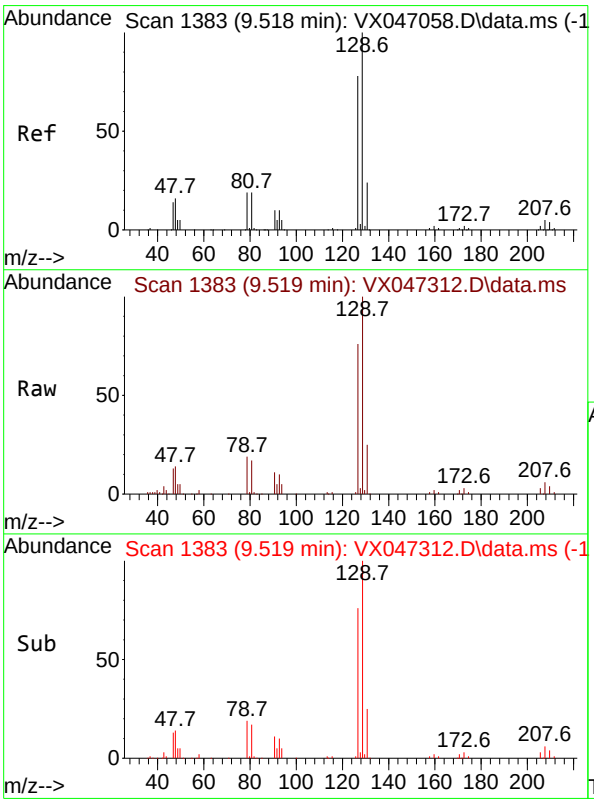
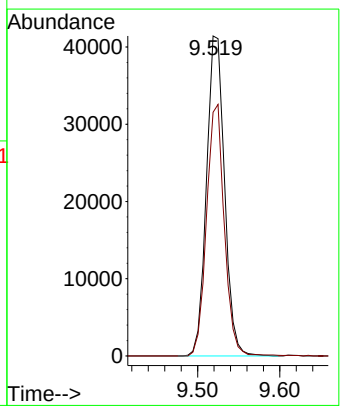
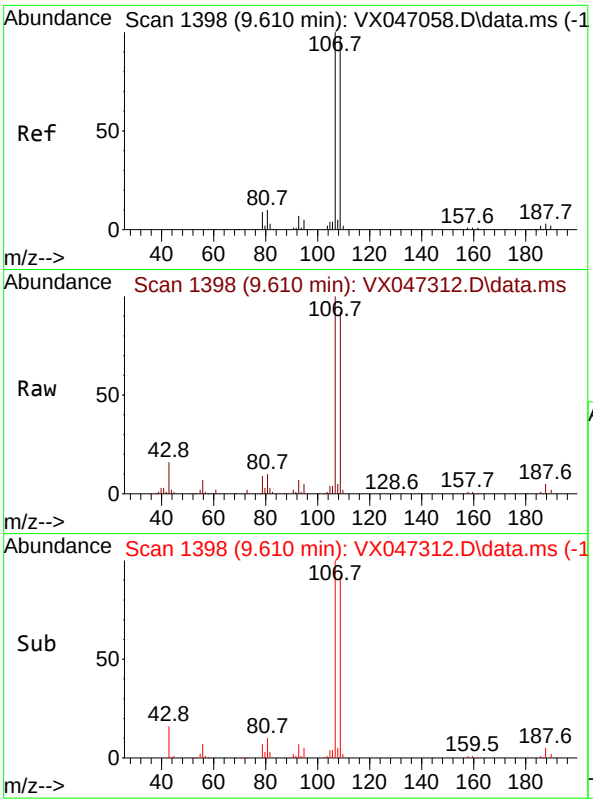


#60
Dibromochloromethane
Concen: 21.795 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:129 Resp: 63101

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.6	115.8

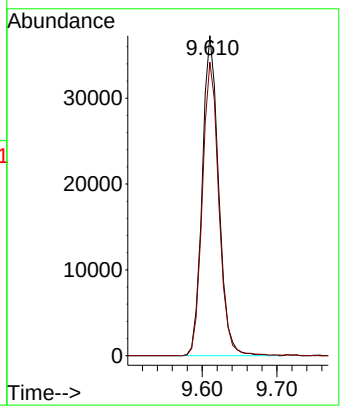




#61
1,2-Dibromoethane
Concen: 22.006 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:107 Resp: 5680

Ion	Ratio	Lower	Upper
107	100		
109	92.1	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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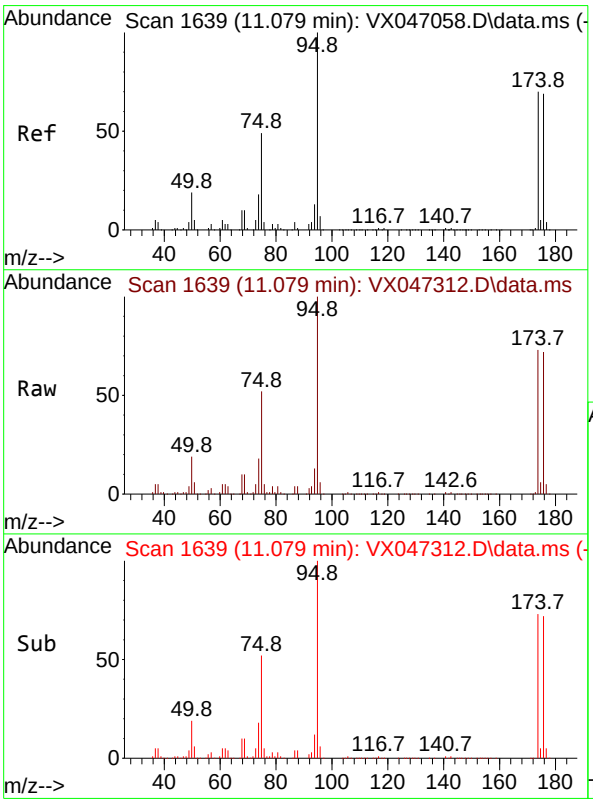
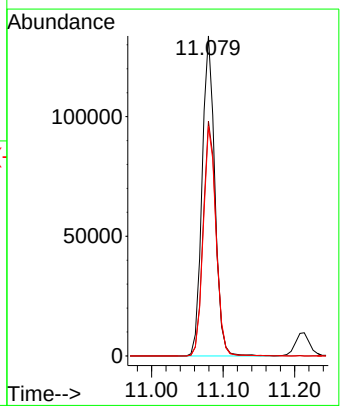
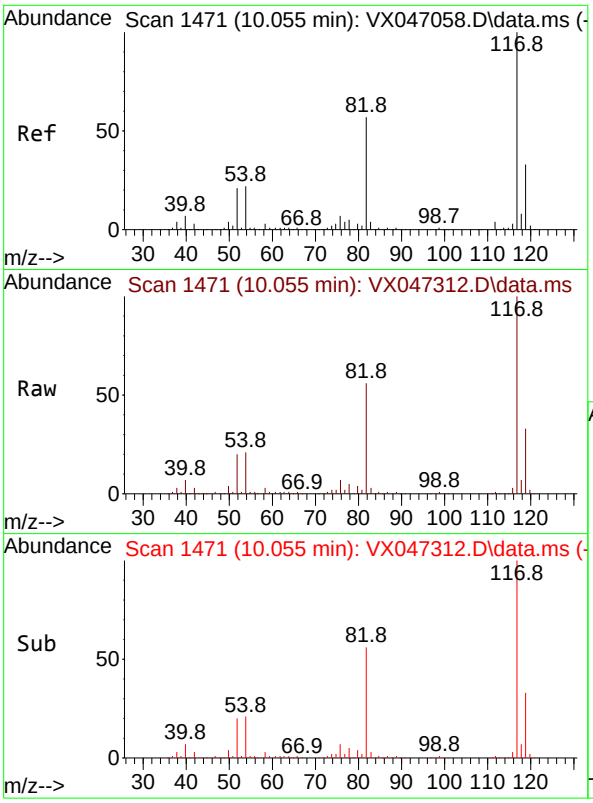


#62
4-Bromofluorobenzene
Concen: 54.374 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 95 Resp: 164675

Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	144.6
176	72.3	0.0	139.6

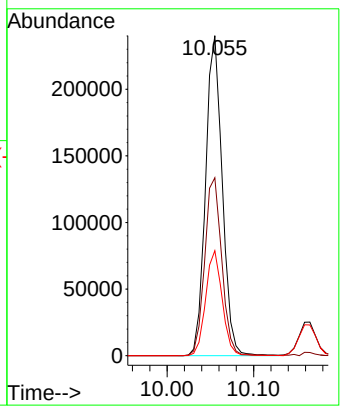




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:117 Resp: 32139

Ion	Ratio	Lower	Upper
117	100		
82	55.6	45.4	68.2
119	32.8	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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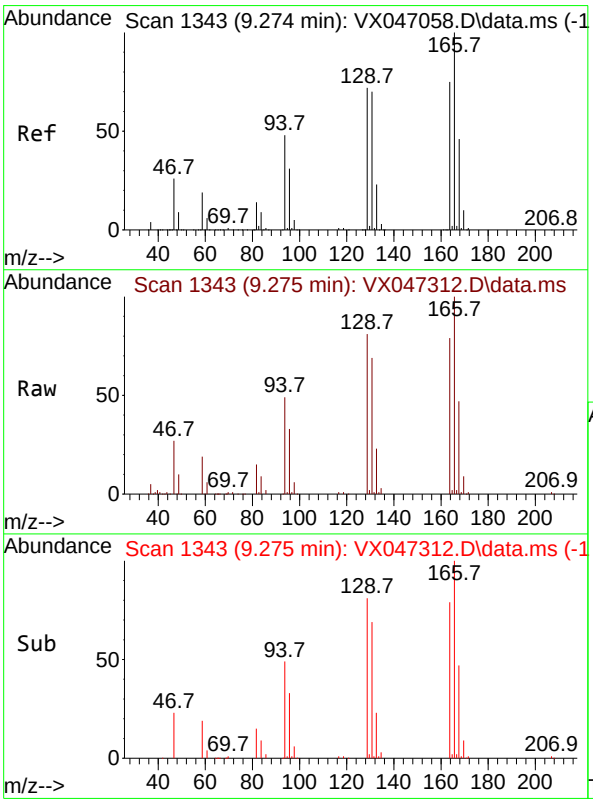
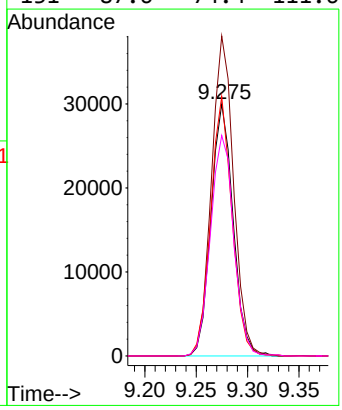
Supervised By :Mahesh Dadoda 08/18/2025

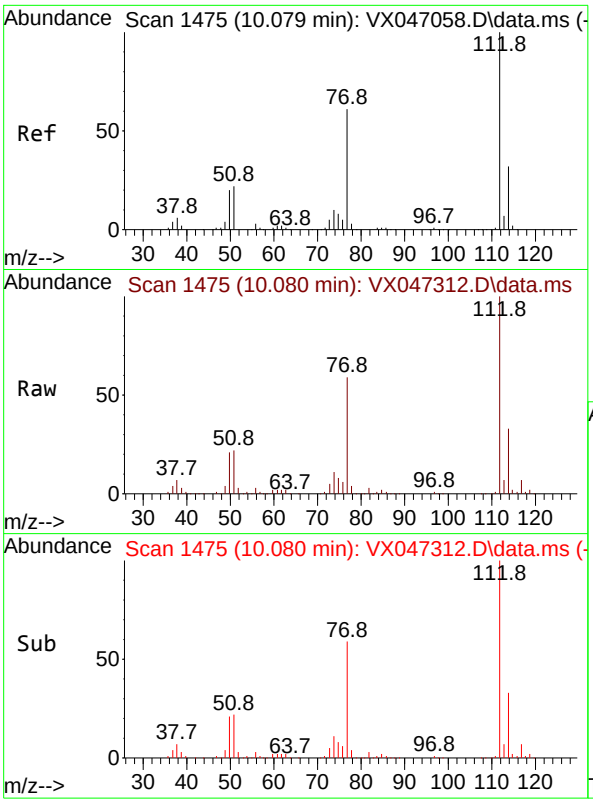


#64
Tetrachloroethene
Concen: 19.291 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:164 Resp: 44694

Ion	Ratio	Lower	Upper
164	100		
166	127.1	106.2	159.4
129	103.0	76.6	114.8
131	87.6	74.4	111.6

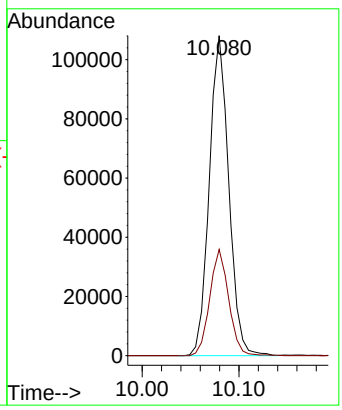




#65
Chlorobenzene
Concen: 20.093 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:112 Resp: 15128

Ion	Ratio	Lower	Upper
112	100		
114	33.2	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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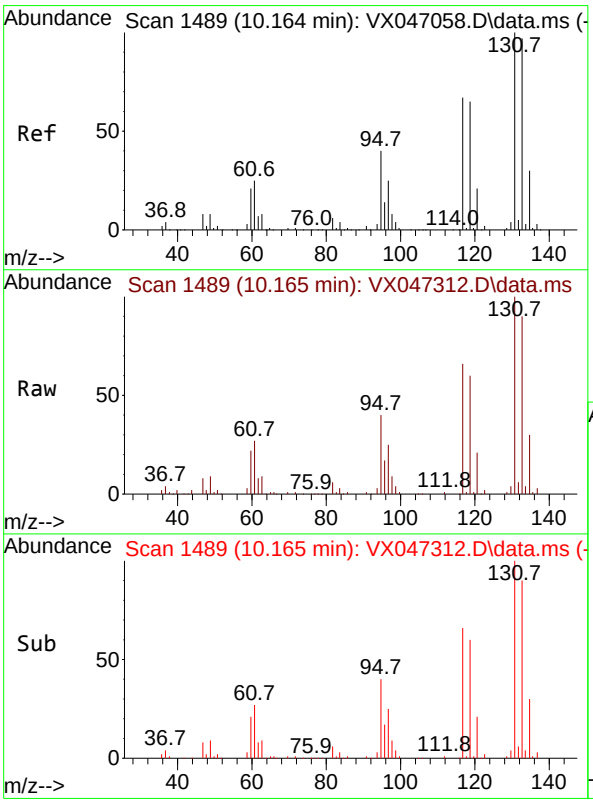
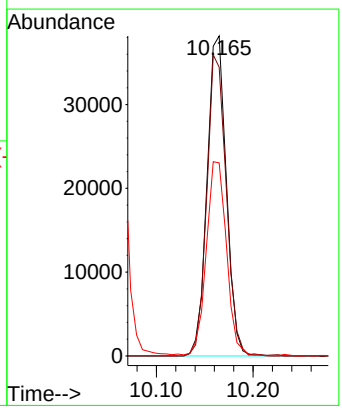
Supervised By :Mahesh Dadoda 08/18/2025

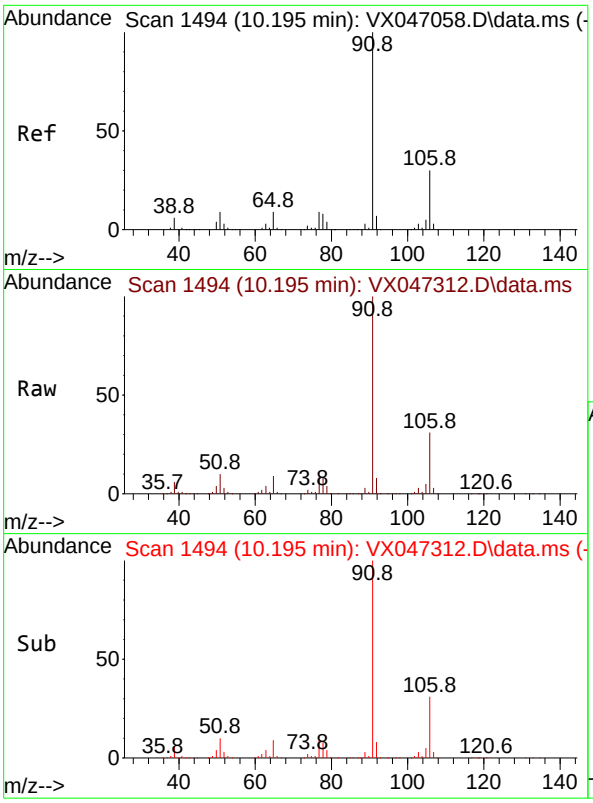


#66
1,1,1,2-Tetrachloroethane
Concen: 20.861 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:131 Resp: 52881

Ion	Ratio	Lower	Upper
131	100		
133	94.9	48.4	145.3
119	63.8	32.4	97.0

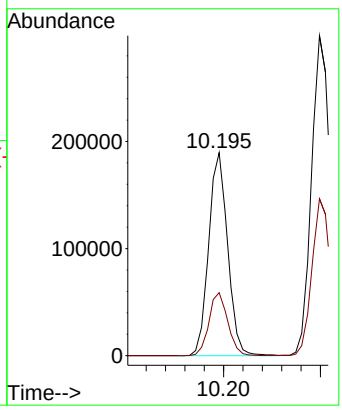




#67
Ethyl Benzene
Concen: 19.627 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 91 Resp: 25837

Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.2	36.4



Instrument :
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ClientSampleId :
VX0813WBS01

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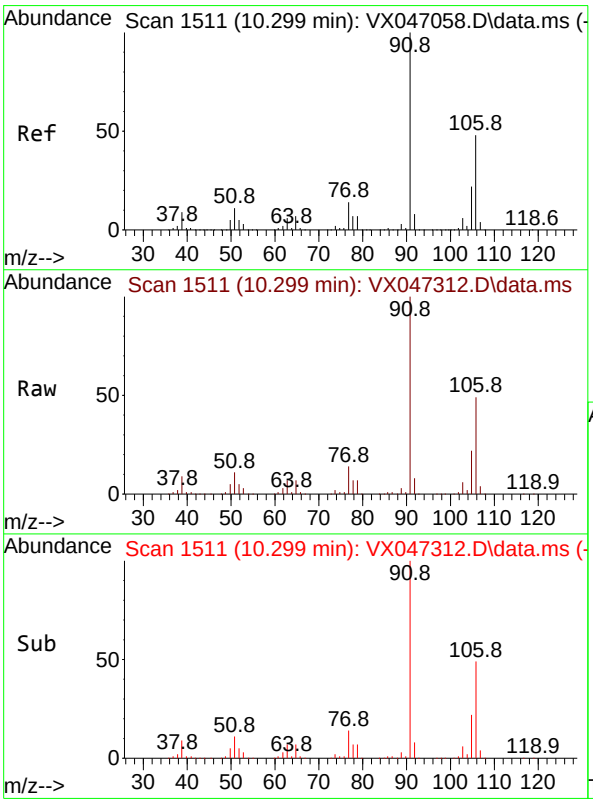
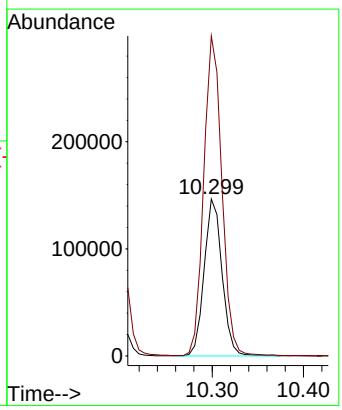
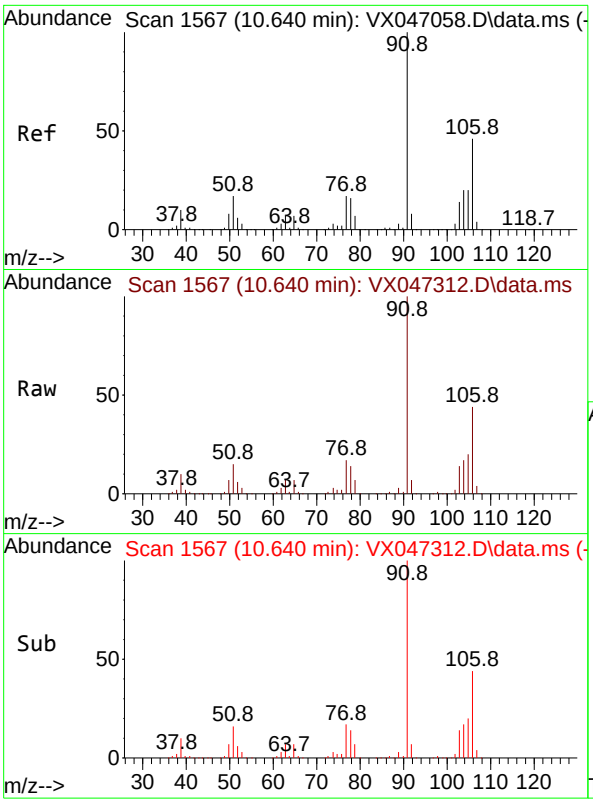


#68
m/p-Xylenes
Concen: 40.364 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:106 Resp: 198849

Ion	Ratio	Lower	Upper
106	100		
91	206.2	167.4	251.0

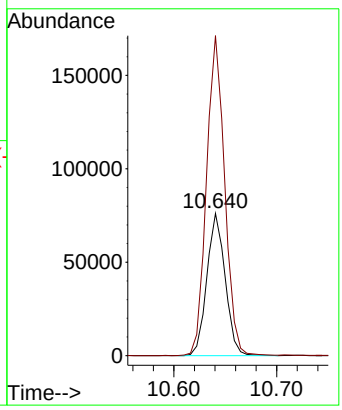




#69
o-Xylene
Concen: 20.141 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:106 Resp: 9439

Ion	Ratio	Lower	Upper
106	100		
91	223.9	110.3	331.0



Instrument :
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ClientSampleId :
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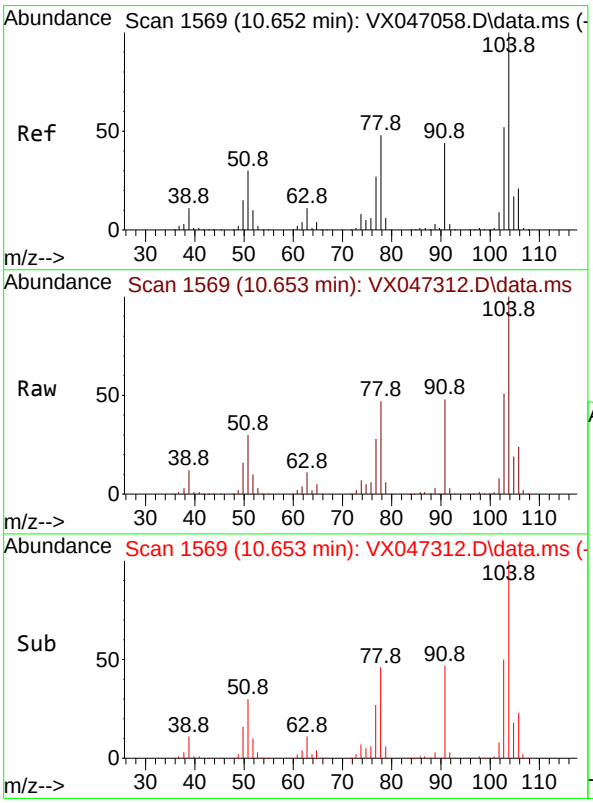
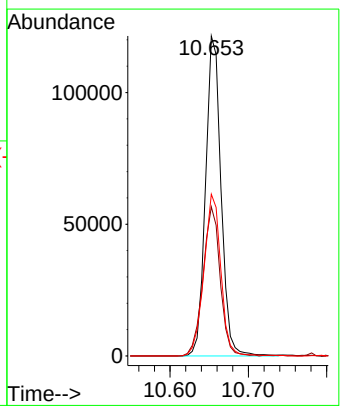
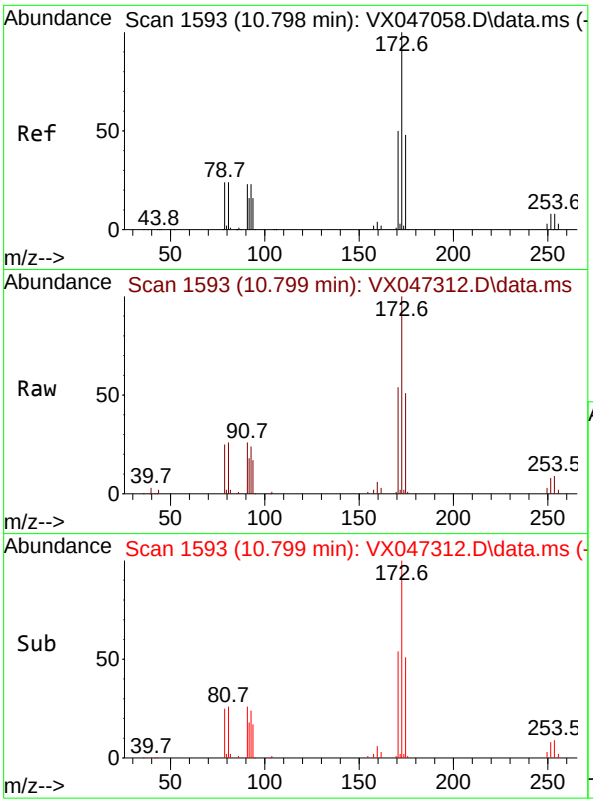


#70
Styrene
Concen: 20.739 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:104 Resp: 166666

Ion	Ratio	Lower	Upper
104	100		
78	51.6	42.0	63.0
103	55.3	43.8	65.6

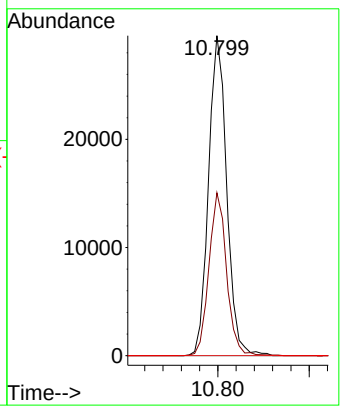




#71
Bromoform
Concen: 21.130 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:173 Resp: 4068

Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.2	72.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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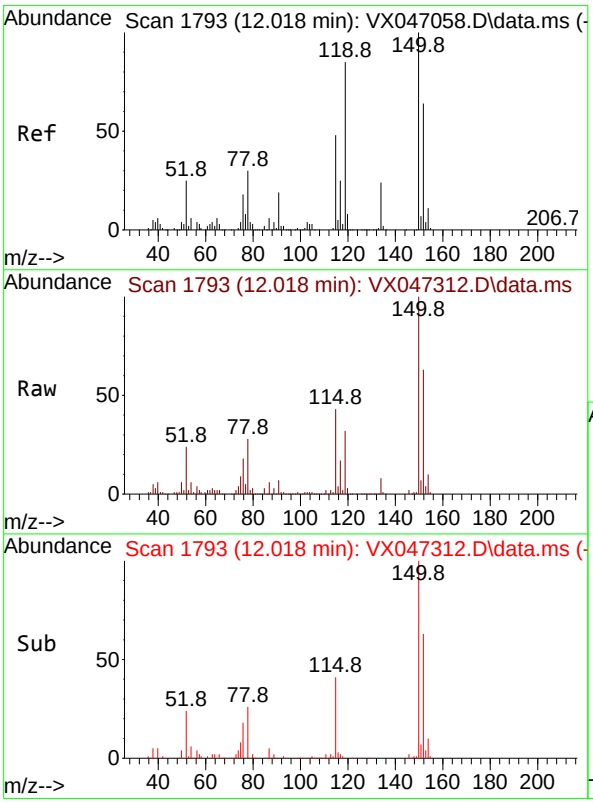
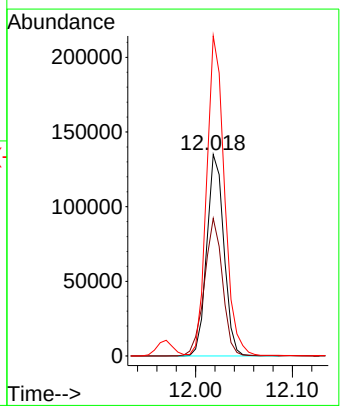
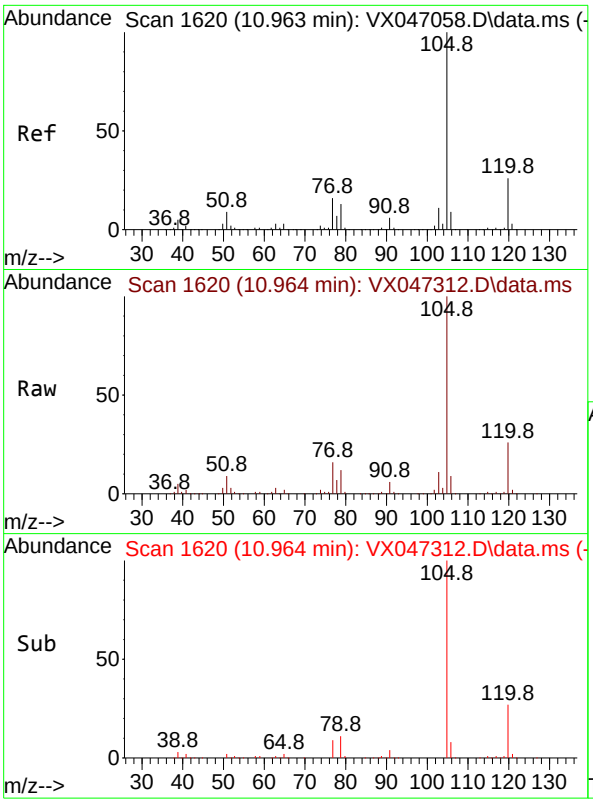


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:152 Resp: 166290

Ion	Ratio	Lower	Upper
152	100		
115	72.3	45.6	136.7
150	164.5	0.0	354.6

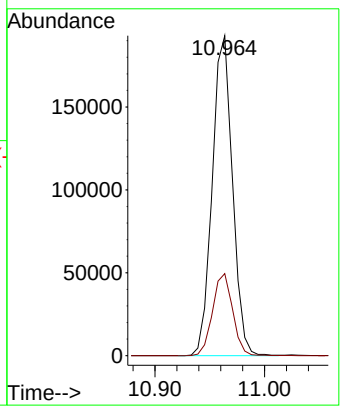




#73
Isopropylbenzene
Concen: 18.860 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:105 Resp: 24742

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.9	38.7



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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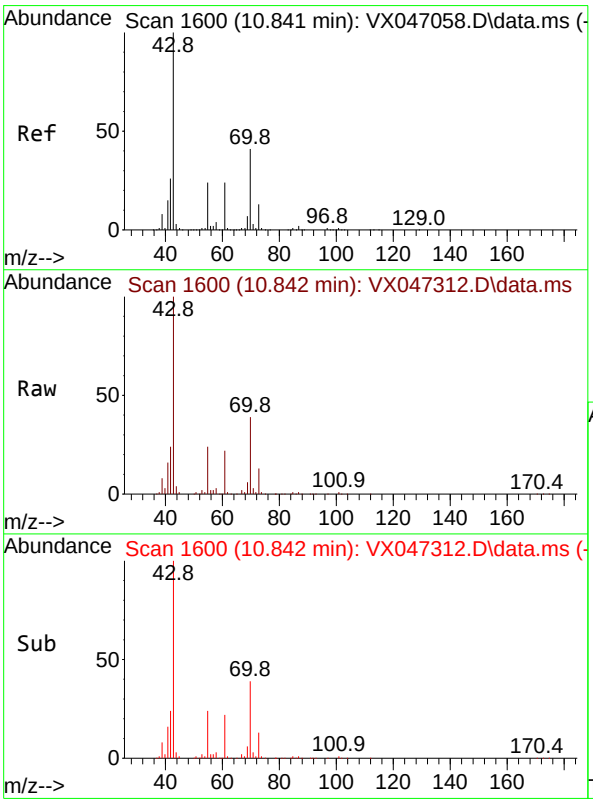
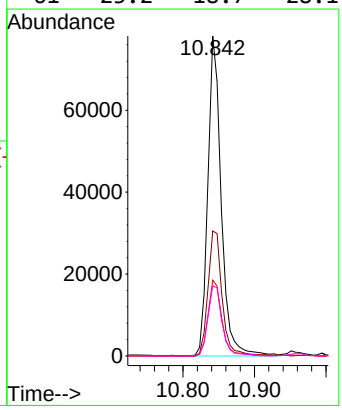
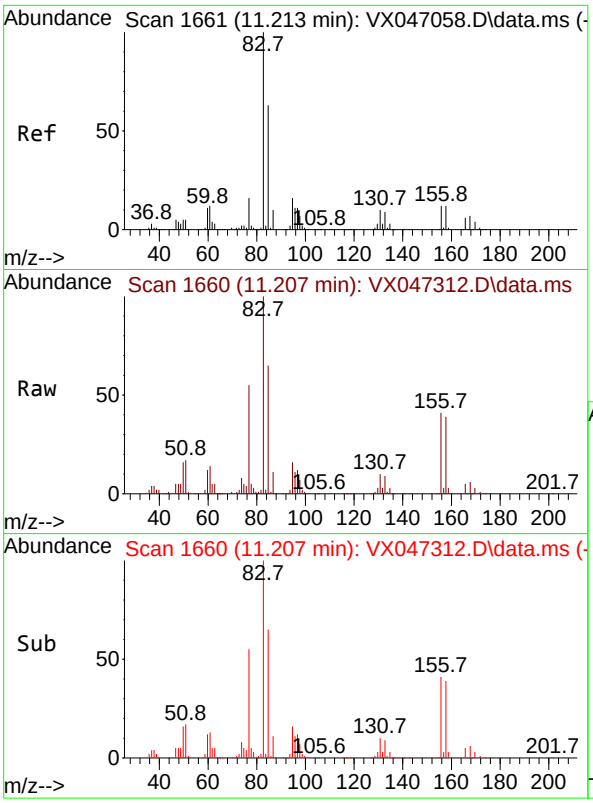


#74
N-amyl acetate
Concen: 19.236 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 43 Resp: 101822

Ion	Ratio	Lower	Upper
43	100		
70	41.3	32.3	48.5
55	24.6	18.9	28.3
61	23.2	18.7	28.1

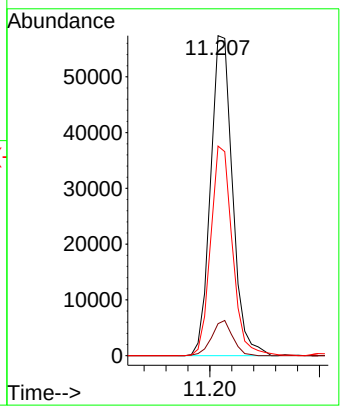




#75
1,1,2,2-Tetrachloroethane
Concen: 21.261 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 83 Resp: 7967

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.0	14.9
85	64.9	32.0	96.2



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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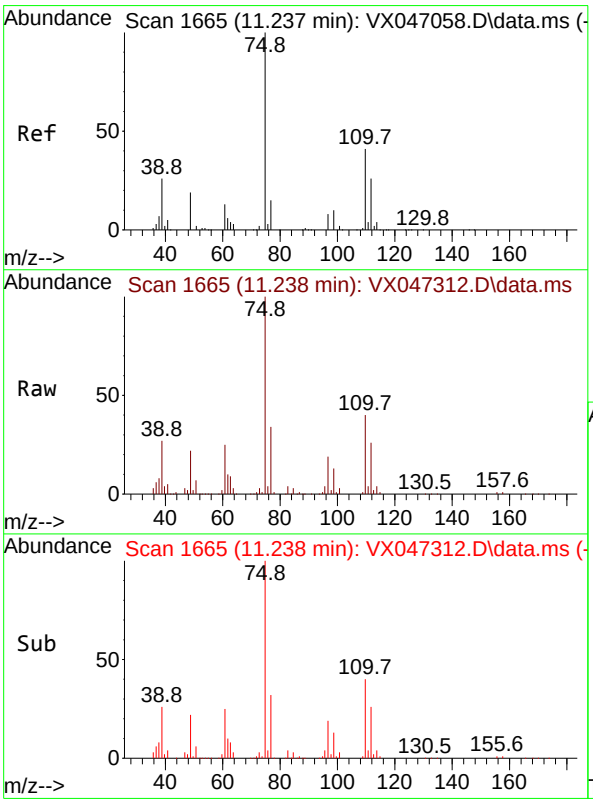
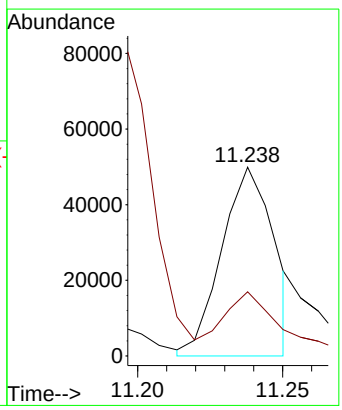
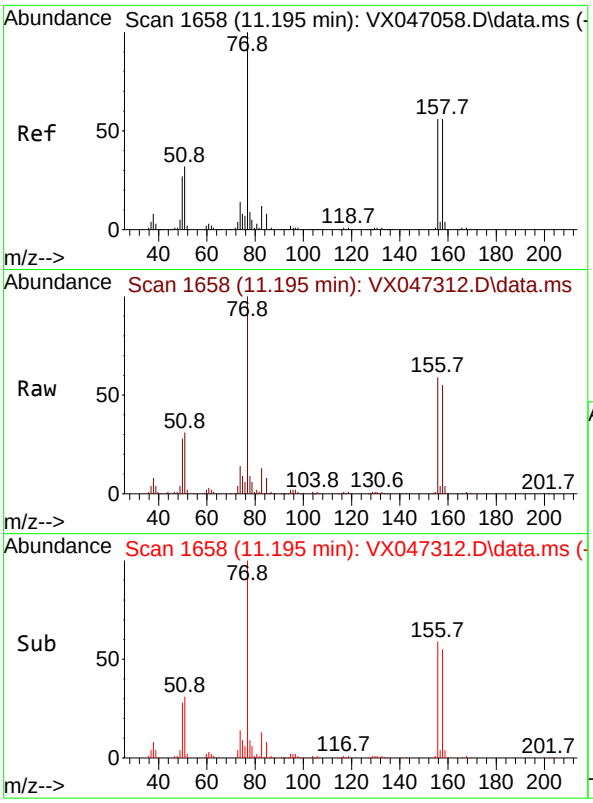


#76
1,2,3-Trichloropropane
Concen: 20.401 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 75 Resp: 62793

Ion	Ratio	Lower	Upper
75	100		
77	39.3	21.6	65.0

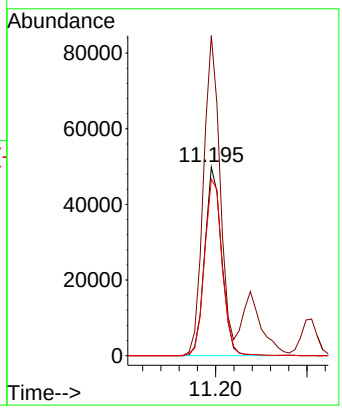




#77
Bromobenzene
Concen: 20.293 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:156 Resp: 6385

Ion	Ratio	Lower	Upper
156	100		
77	167.1	87.3	261.9
158	97.4	48.9	146.6



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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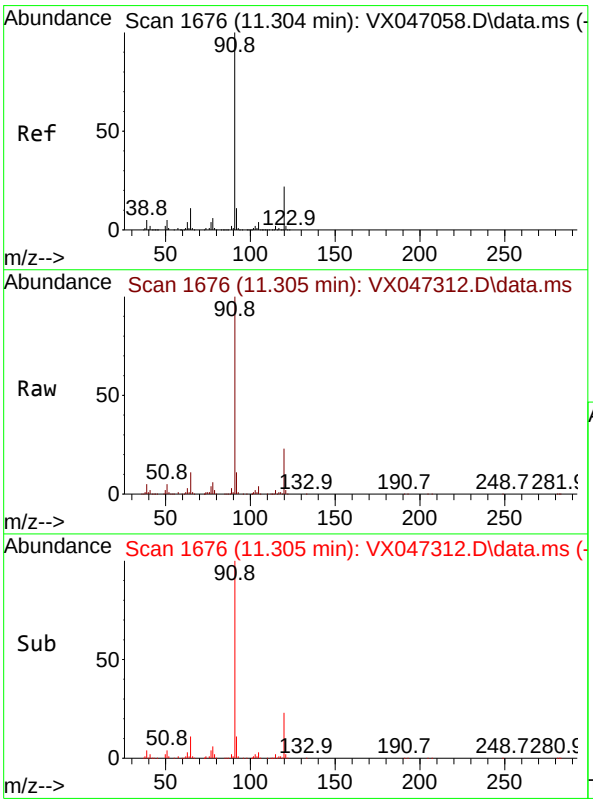
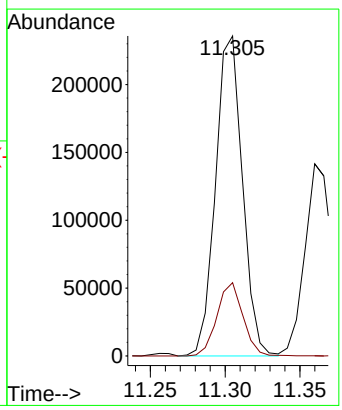
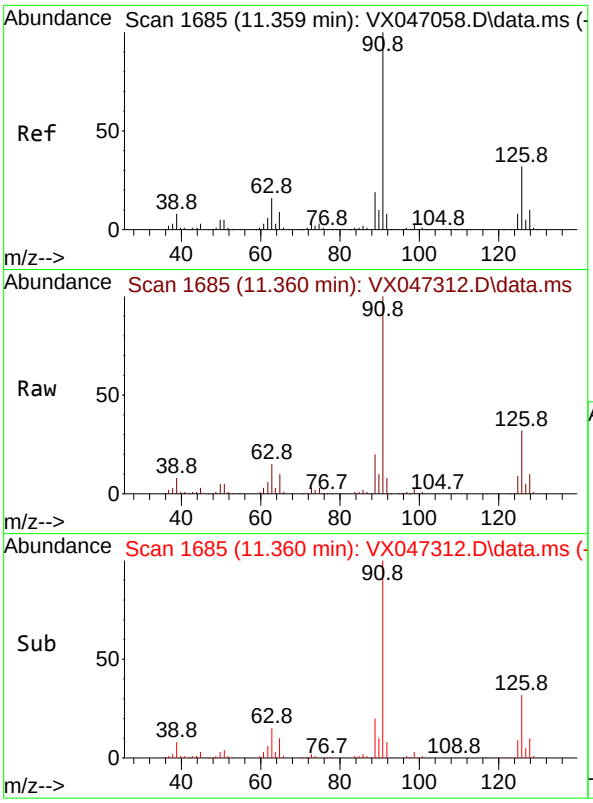


#78
n-propylbenzene
Concen: 18.808 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 91 Resp: 294861

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0





#79
2-Chlorotoluene
Concen: 19.469 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 91 Resp: 18245

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

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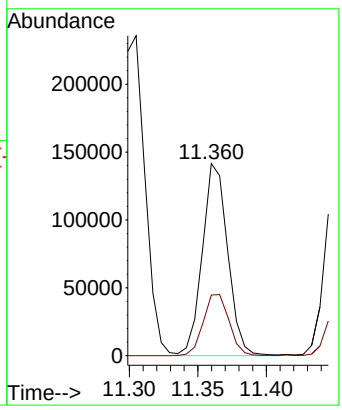
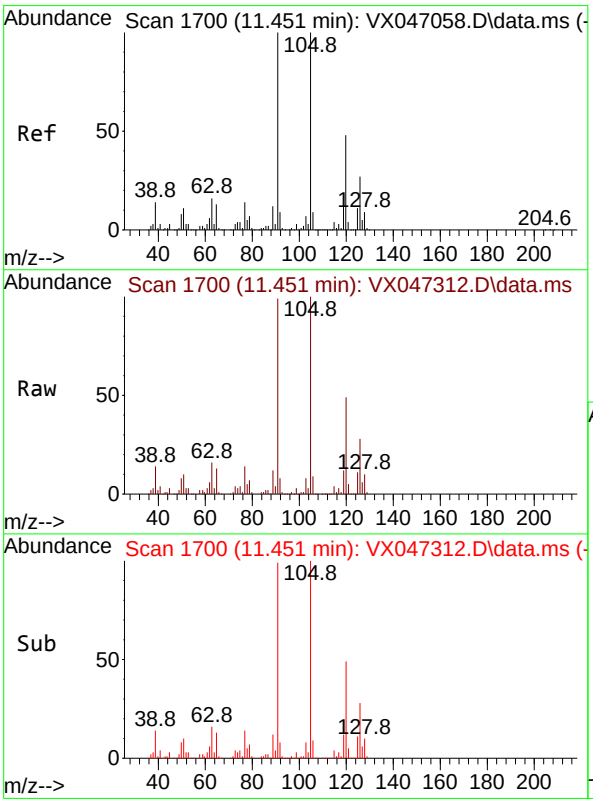
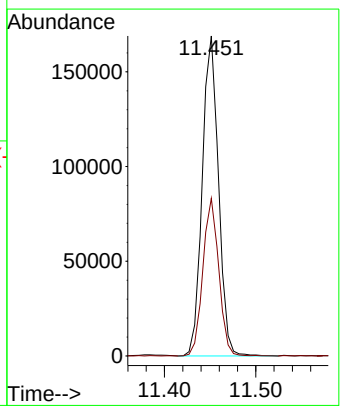


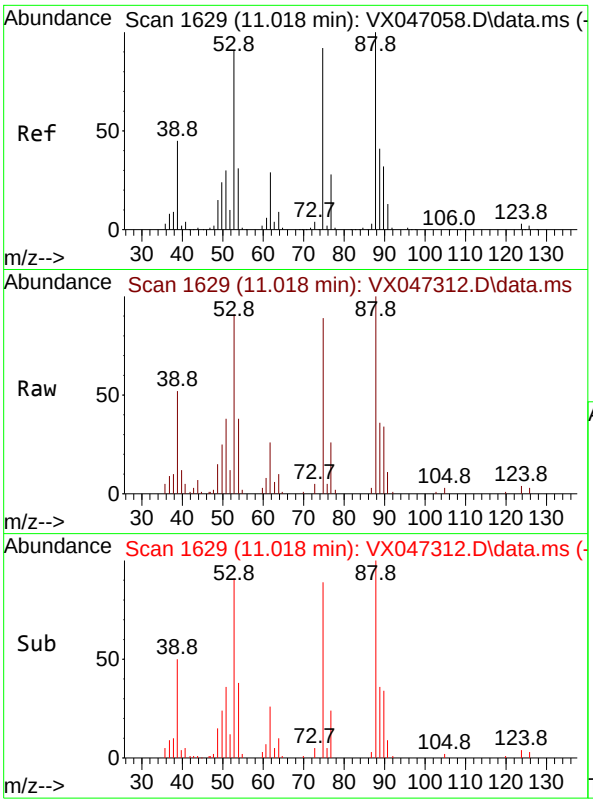


#80
1,3,5-Trimethylbenzene
Concen: 19.170 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:105 Resp: 207773

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.8	71.5

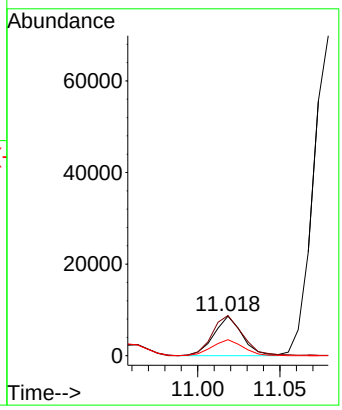




#81
trans-1,4-Dichloro-2-butene
Concen: 8.627 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 75 Resp: 1030

Ion	Ratio	Lower	Upper
75	100		
53	111.2	84.2	126.4
89	44.2	36.0	54.0



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations
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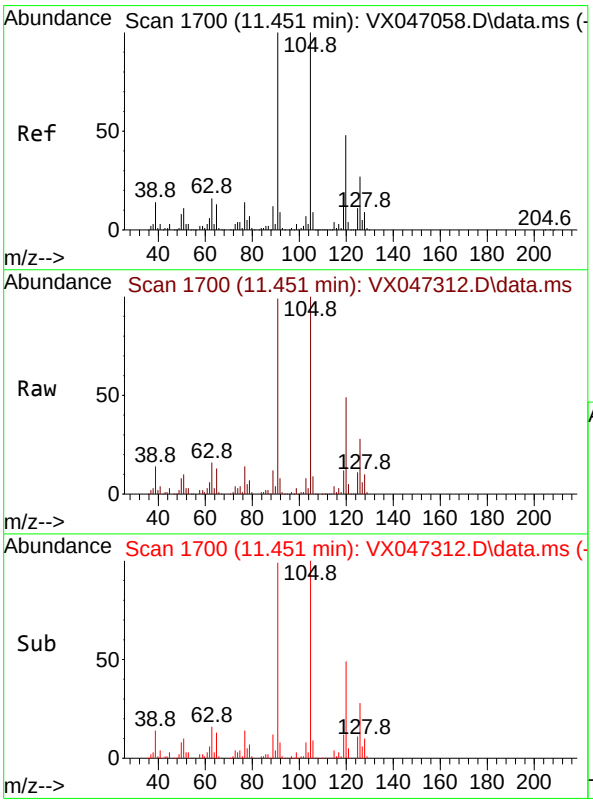
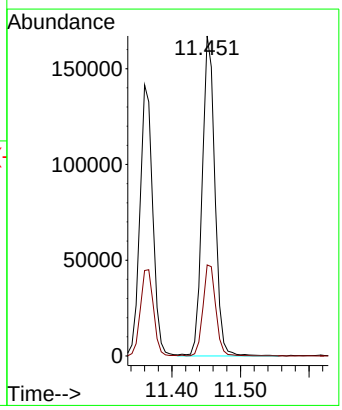
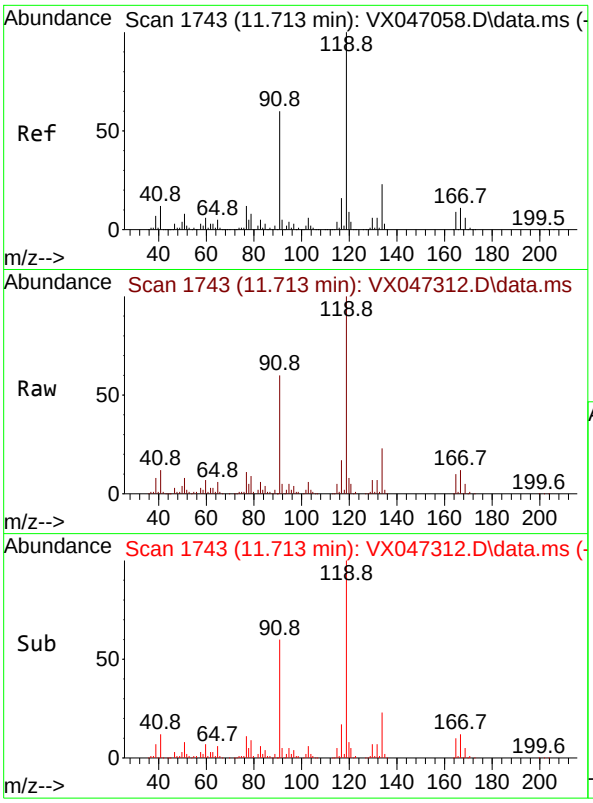


#82
4-Chlorotoluene
Concen: 19.738 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 91 Resp: 215901

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.1	42.3

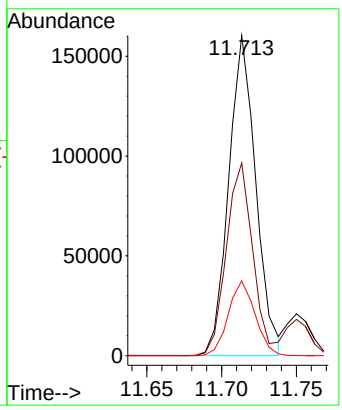




#83
tert-Butylbenzene
Concen: 18.575 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:119 Resp: 20206

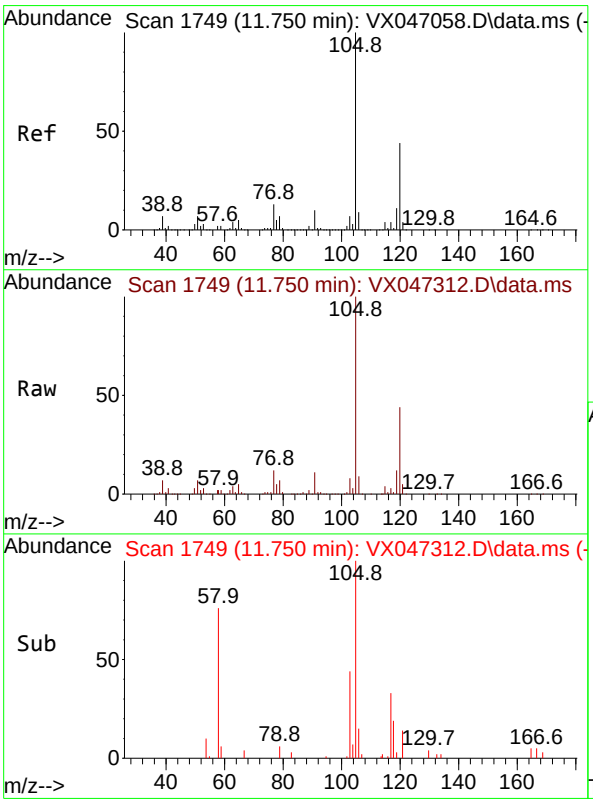
Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.6	88.8
134	23.2	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations
APPROVED

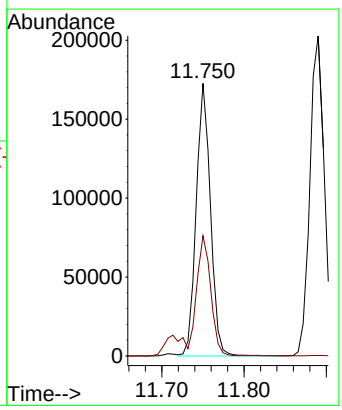
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

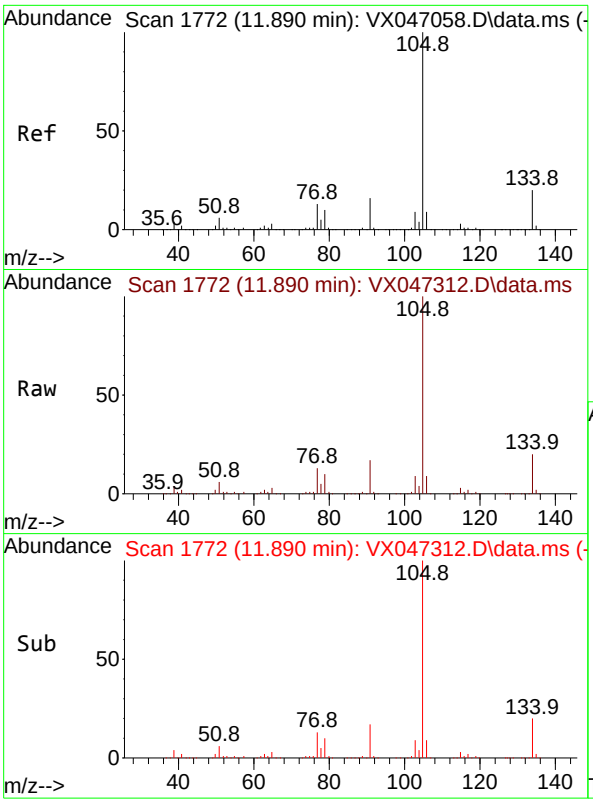


#84
1,2,4-Trimethylbenzene
Concen: 19.236 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:105 Resp: 207952

Ion	Ratio	Lower	Upper
105	100		
120	43.2	22.0	66.0

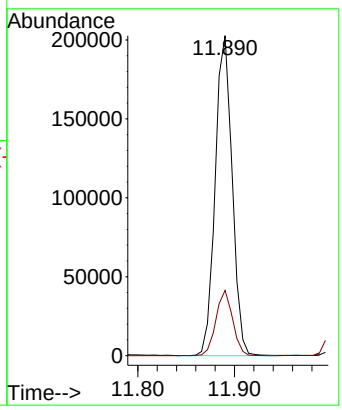




#85
sec-Butylbenzene
Concen: 18.146 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:105 Resp: 24664

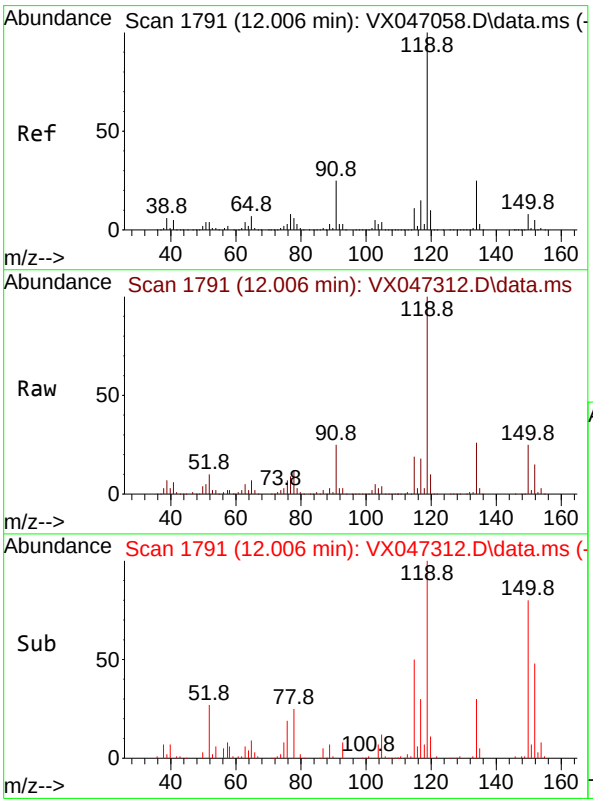
Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations
APPROVED

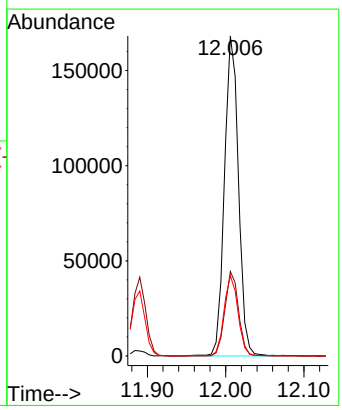
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

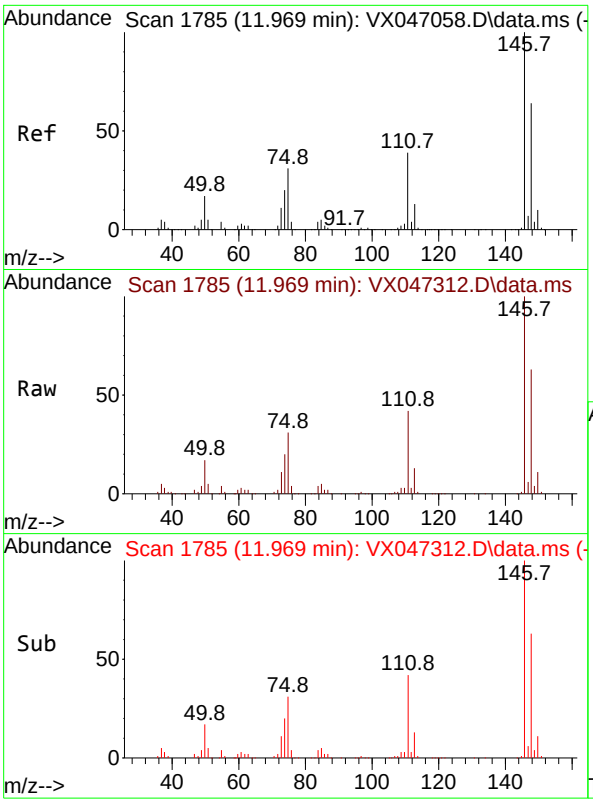


#86
p-Isopropyltoluene
Concen: 18.597 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:119 Resp: 209624

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.8	38.4
91	24.9	12.4	37.4

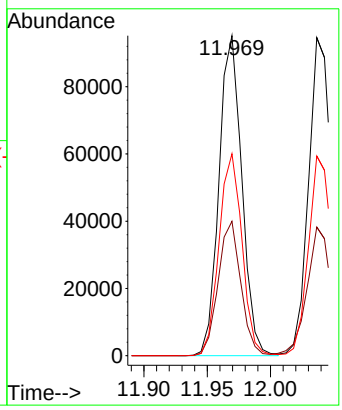




#87
1,3-Dichlorobenzene
Concen: 19.976 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:146 Resp: 11943

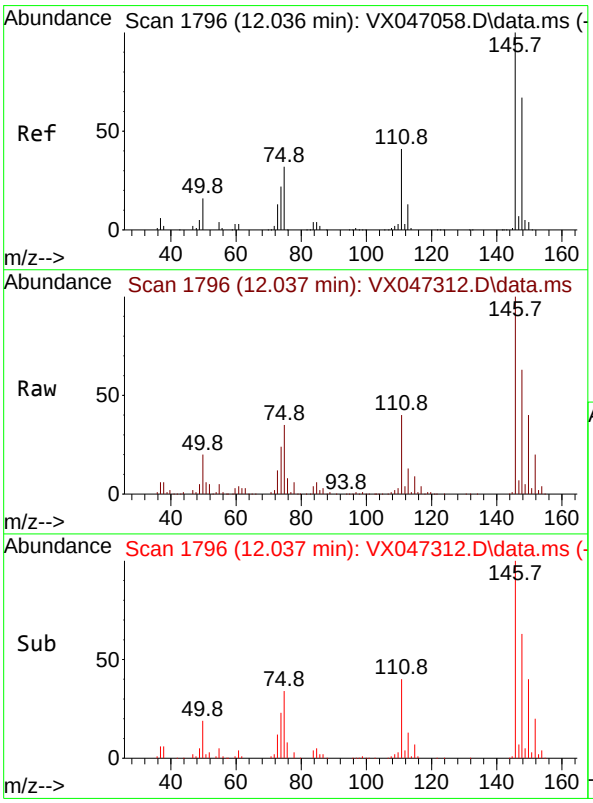
Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.0	63.0
148	63.6	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations APPROVED

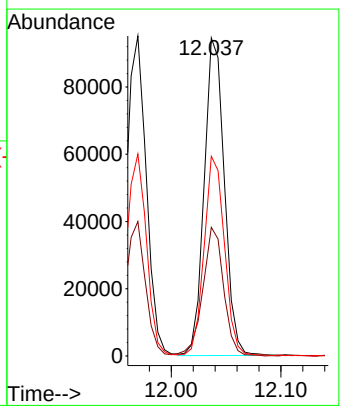
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

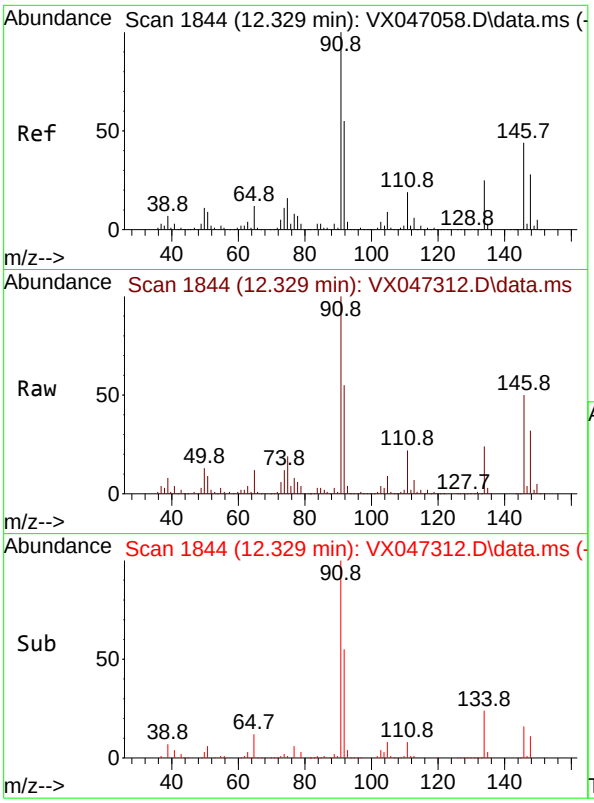


#88
1,4-Dichlorobenzene
Concen: 19.938 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:146 Resp: 120773

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.6	61.9
148	63.5	33.0	98.9

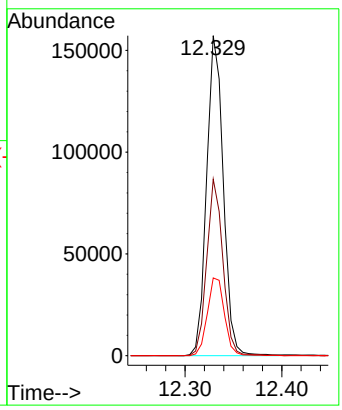




#89
n-Butylbenzene
Concen: 17.823 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 91 Resp: 18839

Ion	Ratio	Lower	Upper
91	100		
92	53.5	27.5	82.5
134	25.1	12.8	38.3



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations
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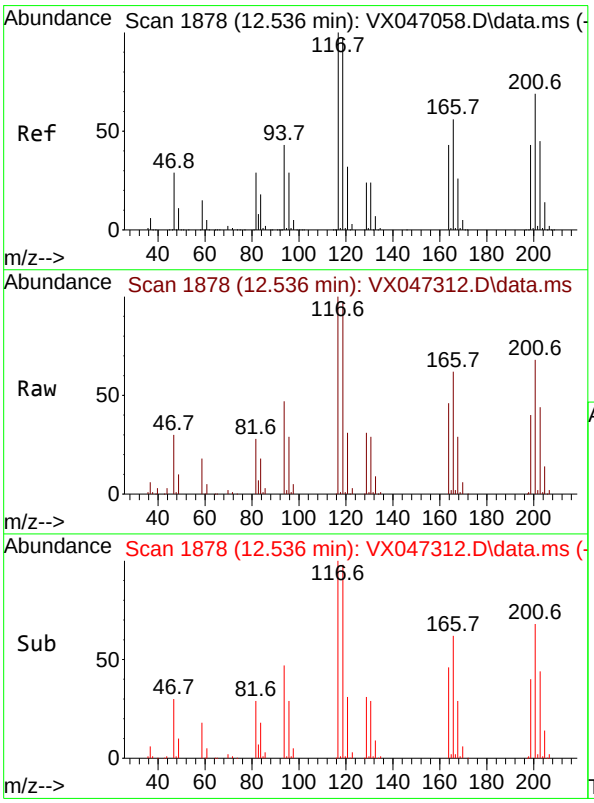
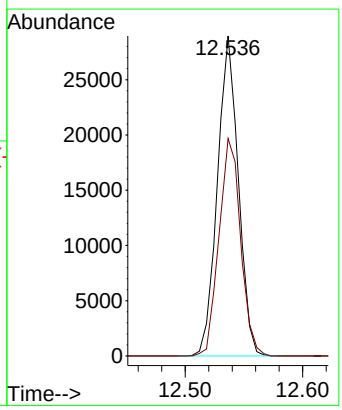
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

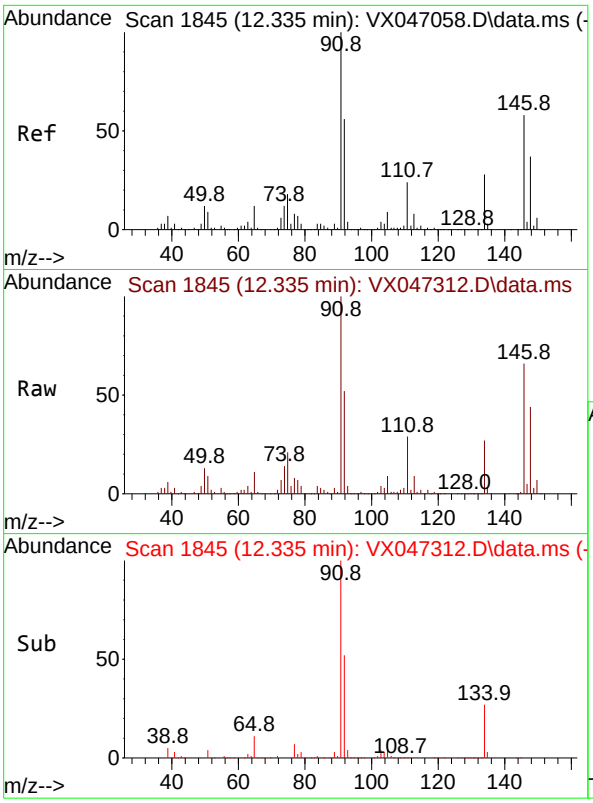


#90
Hexachloroethane
Concen: 17.786 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:117 Resp: 35864

Ion	Ratio	Lower	Upper
117	100		
201	70.3	34.8	104.5

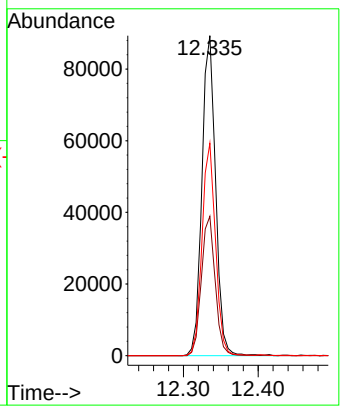




#91
1,2-Dichlorobenzene
Concen: 19.835 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:146 Resp: 11334

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.6	64.6
148	65.6	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations
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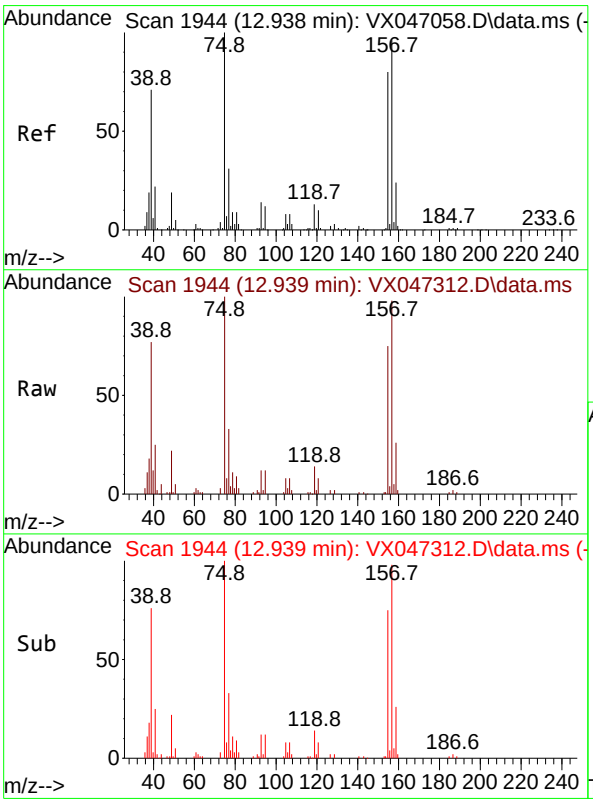
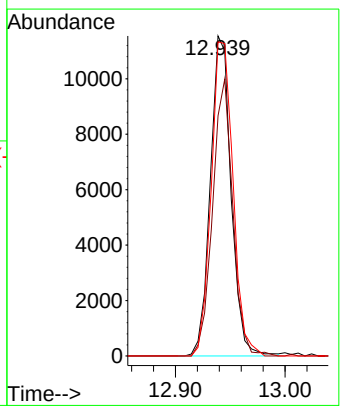
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

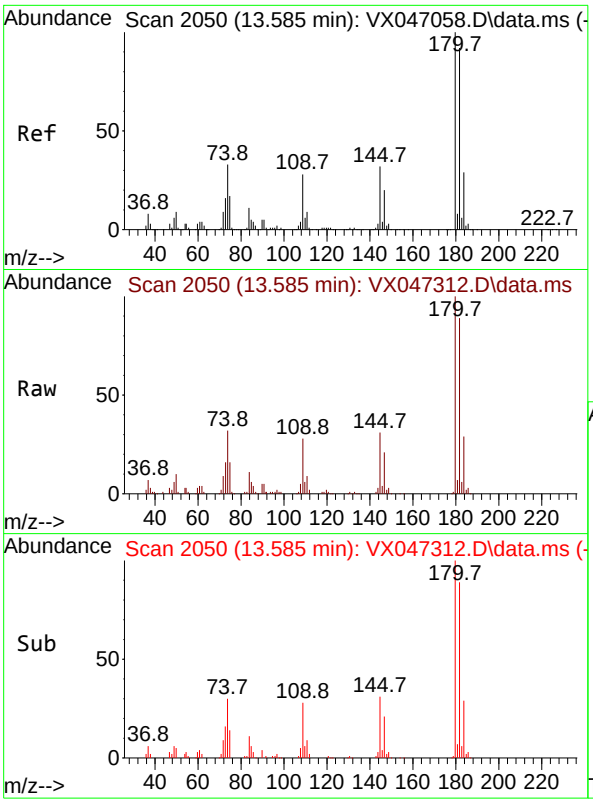


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.136 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 75 Resp: 15204

Ion	Ratio	Lower	Upper
75	100		
155	84.2	41.3	124.1
157	103.1	52.8	158.3

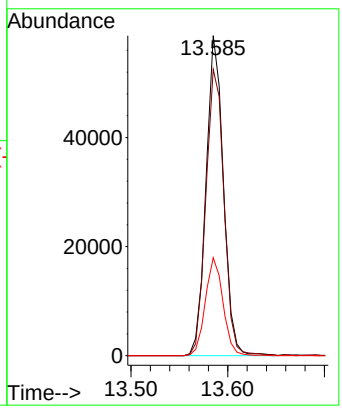




#93
1,2,4-Trichlorobenzene
Concen: 19.391 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:180 Resp: 7321

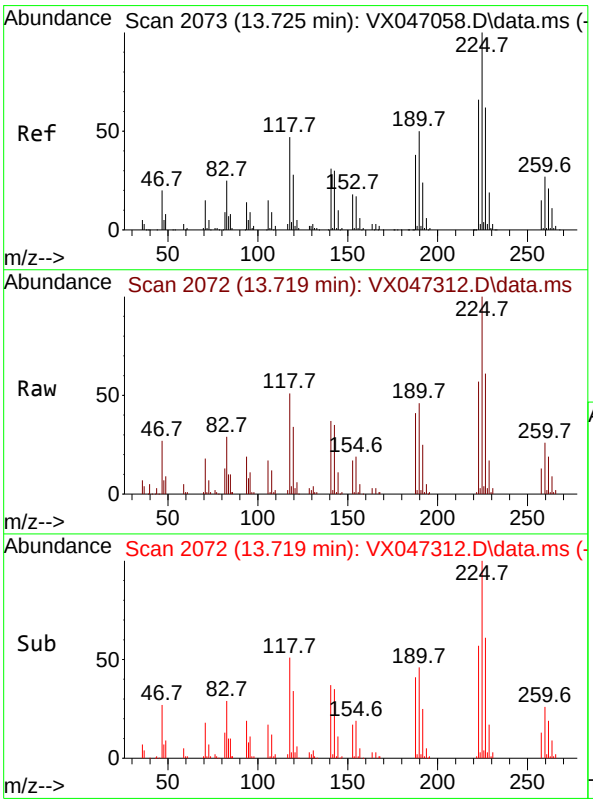
Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.3	141.8
145	31.2	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations APPROVED

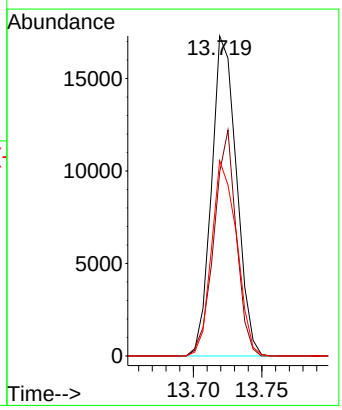
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

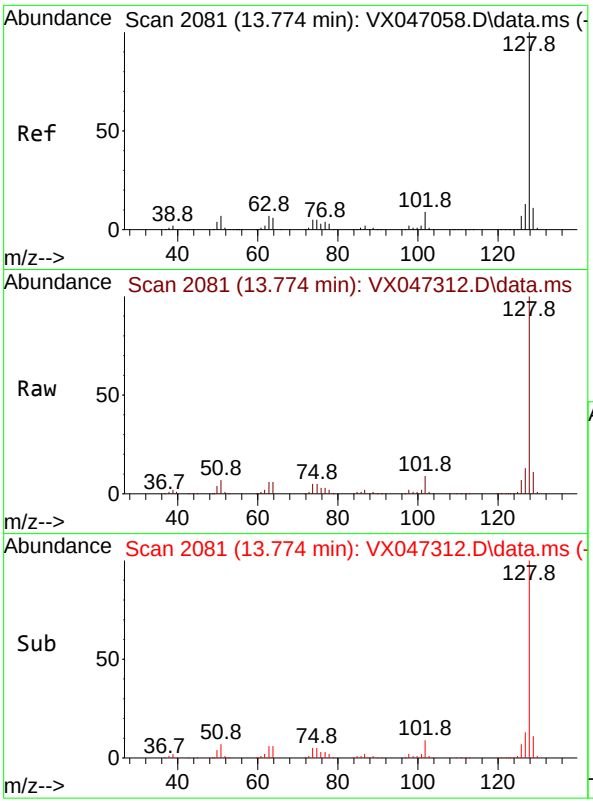


#94
Hexachlorobutadiene
Concen: 17.048 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:225 Resp: 21890

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.6	95.0
227	61.5	32.9	98.6

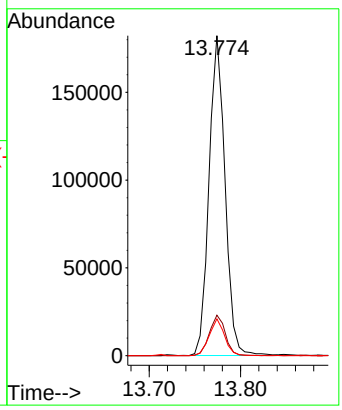




#95
Naphthalene
Concen: 19.981 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:128 Resp: 22115

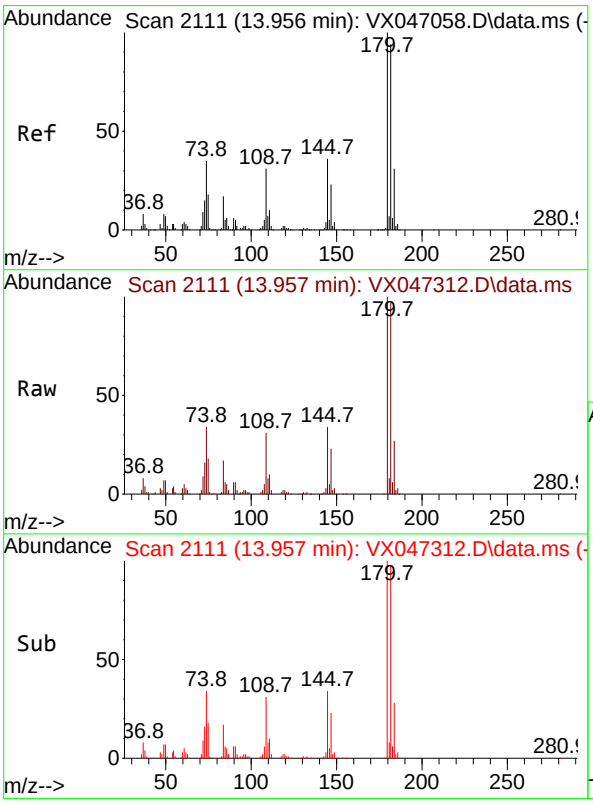
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	11.1	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Manual Integrations
APPROVED

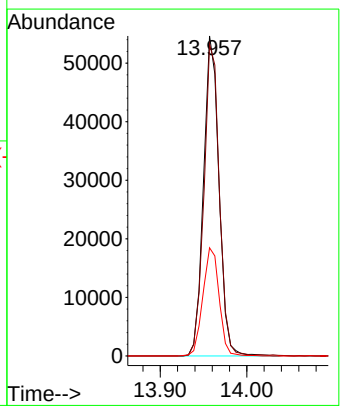
Reviewed By :John Carlone 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.614 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:180 Resp: 67706

Ion	Ratio	Lower	Upper
180	100		
182	97.6	46.9	140.6
145	35.6	17.3	52.0



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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0818WBS01	SDG No.:	Q2815
Lab Sample ID:	VX0818WBS01	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
VX047374.D	1	08/18/25 12:17	VX081825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	20.5		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	22.6		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	19.1		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	13.9		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	26.7		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.7		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.9		0.23	0.75	1.00	ug/L
67-64-1	Acetone	97.8		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	21.1		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.1		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	20.1		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	19.2		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.2		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.4		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	19.9		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	99.2		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.4		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.1		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	19.3		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	20.0		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.7		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	20.0		0.16	0.50	1.00	ug/L
71-43-2	Benzene	20.1		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.6		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.8		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.8		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.3		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.68	2.50	5.00	ug/L
108-88-3	Toluene	20.5		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:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0818WBS01	SDG No.:	Q2815
Lab Sample ID:	VX0818WBS01	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
VX047374.D	1	08/18/25 12:17	VX081825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.7		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.5		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.4		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	100		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	20.4		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.9		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.0		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.8		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.9		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	40.7		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	20.0		0.12	0.50	1.00	ug/L
100-42-5	Styrene	20.2		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	20.4		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.8		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.4		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.5		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.0		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.3		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.8		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.0		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.0		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.7		81 - 118		99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	50.7		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	256000	5.562				
540-36-3	1,4-Difluorobenzene	426000	6.769				
3114-55-4	Chlorobenzene-d5	389000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	198000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0818WBS01	SDG No.:	Q2815
Lab Sample ID:	VX0818WBS01	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
VX047374.D	1	08/18/25 12:17	VX081825

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\VX081825\
Data File : VX047374.D
Acq On : 18 Aug 2025 12:17
Operator : JC/MD
Sample : VX0818WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	256302	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	426348	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	389002	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	197596	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	178254	49.694	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.380%			
35) Dibromofluoromethane	5.391	113	142113	51.359	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.720%			
50) Toluene-d8	8.647	98	501625	50.720	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.440%			
62) 4-Bromofluorobenzene	11.079	95	190251	52.129	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	67016	20.511	ug/l	99
3) Chloromethane	1.313	50	66512	22.629	ug/l	96
4) Vinyl Chloride	1.392	62	70527	19.117	ug/l #	34
5) Bromomethane	1.630	94	20713	13.900	ug/l	91
6) Chloroethane	1.703	64	60368	26.745	ug/l	96
7) Trichlorofluoromethane	1.904	101	107298	19.663	ug/l	99
8) Diethyl Ether	2.148	74	36957	19.234	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.349	101	64346	20.328	ug/l	98
10) Methyl Iodide	2.471	142	82052	15.126	ug/l	97
11) Tert butyl alcohol	2.959	59	31857	102.089	ug/l	98
12) 1,1-Dichloroethene	2.337	96	64232	19.904	ug/l	95
13) Acrolein	2.245	56	613	0.931	ug/l #	33
14) Allyl chloride	2.678	41	91338	16.296	ug/l	96
15) Acrylonitrile	3.075	53	148399	98.415	ug/l	98
16) Acetone	2.386	43	131812	97.762	ug/l	98
17) Carbon Disulfide	2.532	76	205259	21.078	ug/l	99
18) Methyl Acetate	2.715	43	70302	20.121	ug/l	100
19) Methyl tert-butyl Ether	3.123	73	187203	19.069	ug/l	97
20) Methylene Chloride	2.806	84	68704	19.243	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	65926	19.248	ug/l	96
22) Diisopropyl ether	3.770	45	221531	19.995	ug/l	92
23) Vinyl Acetate	3.733	43	885489	97.510	ug/l	98
24) 1,1-Dichloroethane	3.623	63	121482	19.399	ug/l	99
25) 2-Butanone	4.568	43	175245	99.242	ug/l	97
26) 2,2-Dichloropropane	4.483	77	87410	18.494	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	76181	19.096	ug/l	100
28) Bromochloromethane	4.910	49	50307	19.305	ug/l	98
29) Tetrahydrofuran	5.025	42	110222	96.574	ug/l	97
30) Chloroform	5.099	83	127625	19.969	ug/l	100
31) Cyclohexane	5.483	56	114604	19.853	ug/l	93
32) 1,1,1-Trichloroethane	5.397	97	108545	19.732	ug/l	98
36) 1,1-Dichloropropene	5.702	75	88168	20.185	ug/l	99
37) Ethyl Acetate	4.727	43	84412	18.615	ug/l	99
38) Carbon Tetrachloride	5.684	117	97536	20.434	ug/l	96
39) Methylcyclohexane	7.385	83	108722	19.955	ug/l	96
40) Benzene	6.044	78	262740	20.096	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047374.D
Acq On : 18 Aug 2025 12:17
Operator : JC/MD
Sample : VX0818WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	37848	19.793	ug/l		98
42) 1,2-Dichloroethane	6.092	62	95188	20.554	ug/l		100
43) Isopropyl Acetate	6.342	43	127724	19.606	ug/l		99
44) Trichloroethene	7.129	130	66400	19.835	ug/l		99
45) 1,2-Dichloropropane	7.434	63	64842	19.797	ug/l		96
46) Dibromomethane	7.586	93	47290	19.887	ug/l		99
47) Bromodichloromethane	7.824	83	100235	20.333	ug/l		99
48) Methyl methacrylate	7.696	41	65407	19.343	ug/l		99
49) 1,4-Dioxane	7.690	88	11672	355.080	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	384202	102.487	ug/l		98
52) Toluene	8.720	92	165801	20.523	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	84674	19.681	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	95068	19.522	ug/l		99
55) 1,1,2-Trichloroethane	9.153	97	62518	20.382	ug/l		99
56) Ethyl methacrylate	9.116	69	88182	19.499	ug/l		98
57) 1,3-Dichloropropane	9.305	76	105761	20.234	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	182812	90.181	ug/l		98
59) 2-Hexanone	9.433	43	260233	100.356	ug/l		99
60) Dibromochloromethane	9.519	129	74313	20.386	ug/l		100
61) 1,2-Dibromoethane	9.610	107	62983	19.912	ug/l		97
64) Tetrachloroethene	9.275	164	56403	20.046	ug/l		94
65) Chlorobenzene	10.079	112	182846	19.780	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	61571	19.703	ug/l		99
67) Ethyl Benzene	10.189	91	317013	19.925	ug/l		98
68) m/p-Xylenes	10.299	106	241301	40.673	ug/l		99
69) o-Xylene	10.640	106	114422	20.042	ug/l		99
70) Styrene	10.652	104	194838	20.197	ug/l		99
71) Bromoform	10.799	173	47781	20.353	ug/l	#	98
73) Isopropylbenzene	10.957	105	305580	19.762	ug/l		100
74) N-amyl acetate	10.841	43	113146	19.269	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	87881	19.357	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	68334m	18.855	ug/l		
77) Bromobenzene	11.195	156	74393	19.702	ug/l		98
78) n-propylbenzene	11.305	91	367285	19.888	ug/l		100
79) 2-Chlorotoluene	11.360	91	218232	19.548	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	250724	19.707	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	6799	14.737	ug/l		98
82) 4-Chlorotoluene	11.451	91	256557	19.496	ug/l		100
83) tert-Butylbenzene	11.713	119	254465	20.048	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	256880	20.190	ug/l		98
85) sec-Butylbenzene	11.890	105	317850	20.203	ug/l		100
86) p-Isopropyltoluene	12.006	119	266082	19.987	ug/l		99
87) 1,3-Dichlorobenzene	11.963	146	140744	19.511	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	141033	19.010	ug/l		99
89) n-Butylbenzene	12.329	91	245865	19.856	ug/l		99
90) Hexachloroethane	12.536	117	43179	18.488	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	132017	19.282	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	16513	18.808	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	87089	18.974	ug/l		99
94) Hexachlorobutadiene	13.719	225	29173	17.856	ug/l		99
95) Naphthalene	13.774	128	252094	19.219	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	82149	18.987	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047374.D
Acq On : 18 Aug 2025 12:17
Operator : JC/MD
Sample : VX0818WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

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\VX081825\
Data File : VX047374.D
Acq On : 18 Aug 2025 12:17
Operator : JC/MD
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Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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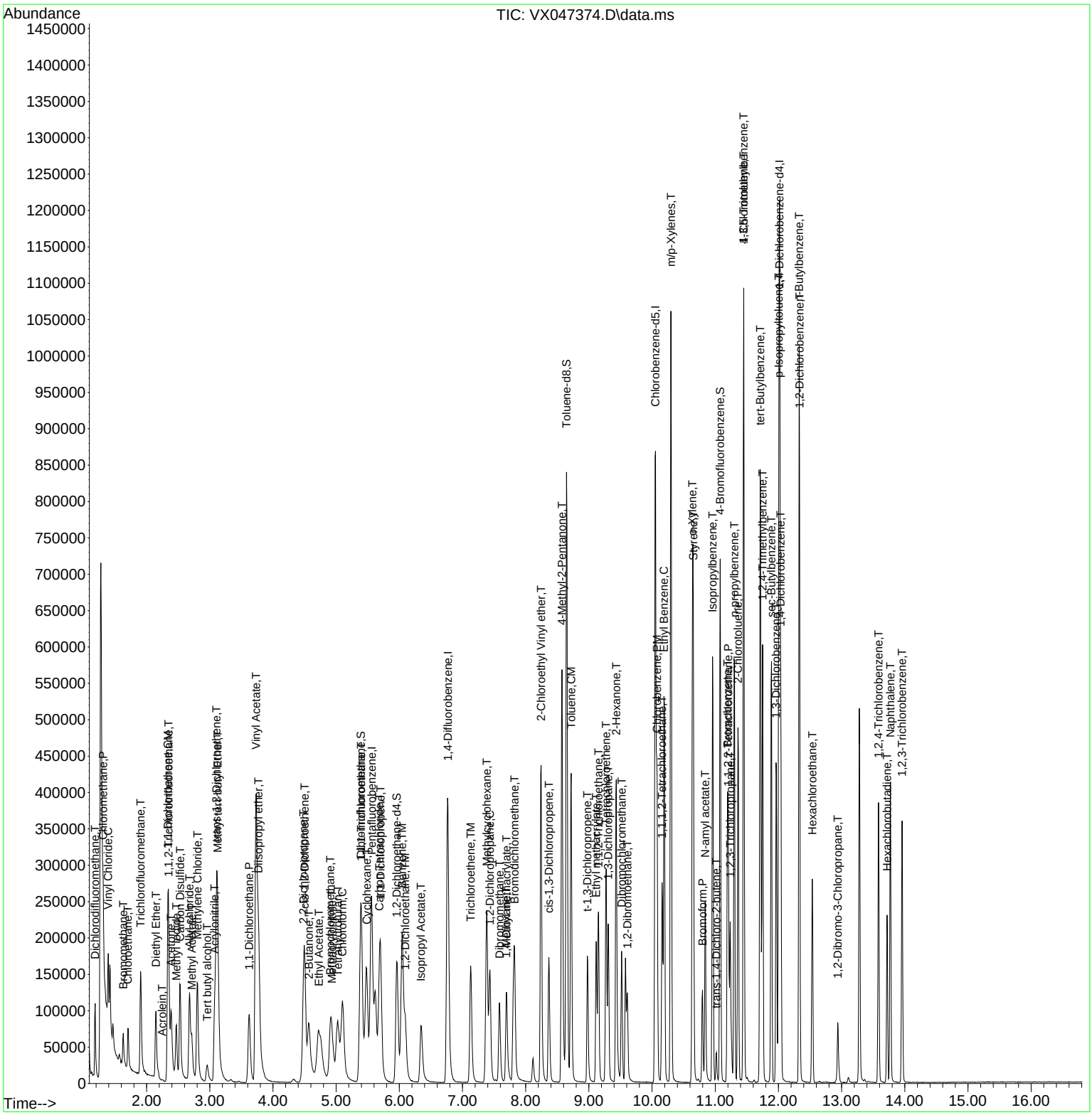
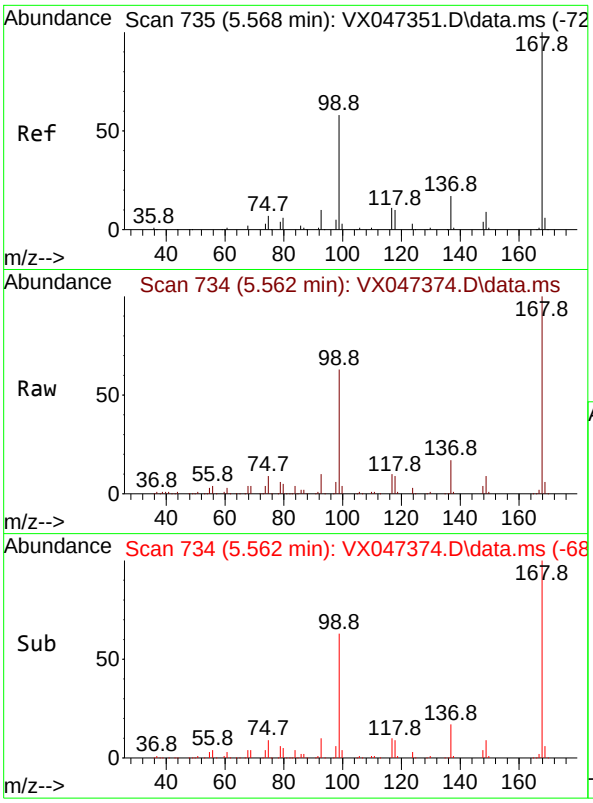
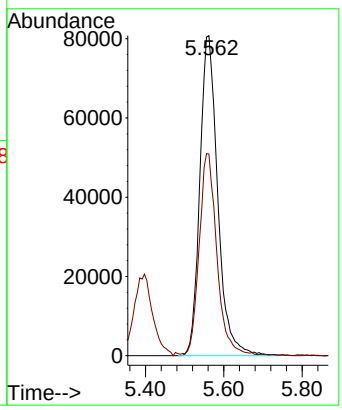




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:168 Resp: 25630

Ion	Ratio	Lower	Upper
168	100		
99	62.8	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Manual Integrations
APPROVED

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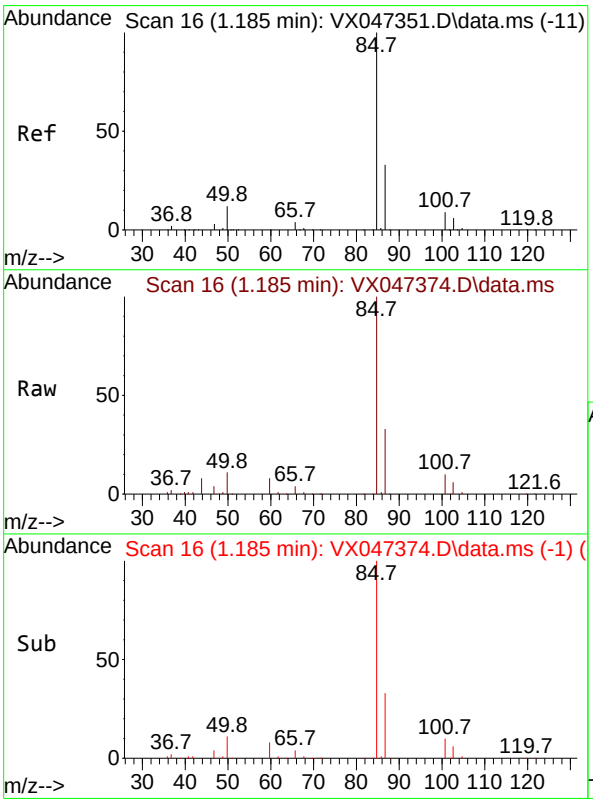
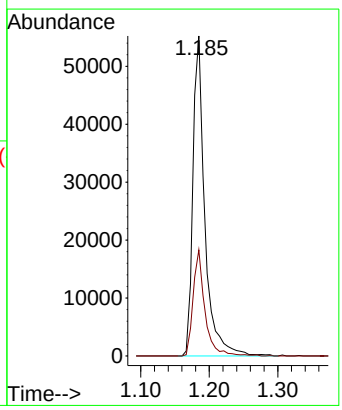
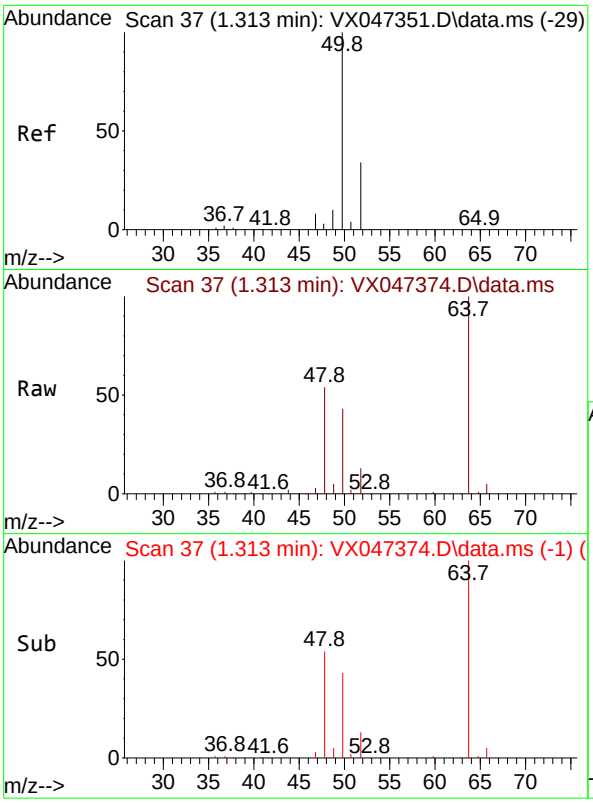


#2
Dichlorodifluoromethane
Concen: 20.511 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 85 Resp: 67016

Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.4	49.1

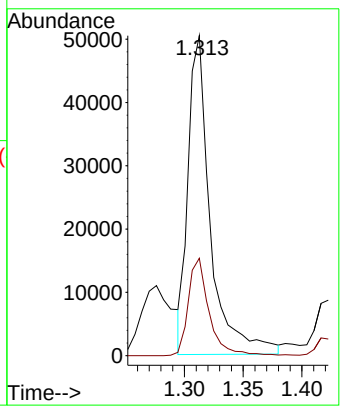




#3
Chloromethane
Concen: 22.629 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 50 Resp: 6651

Ion	Ratio	Lower	Upper
50	100		
52	31.3	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Manual Integrations APPROVED

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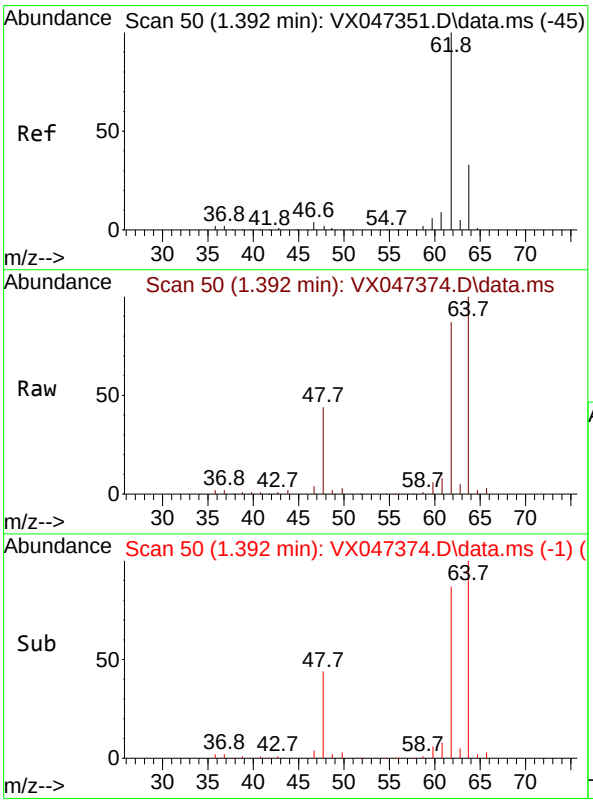
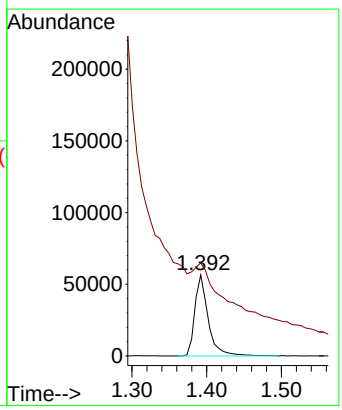
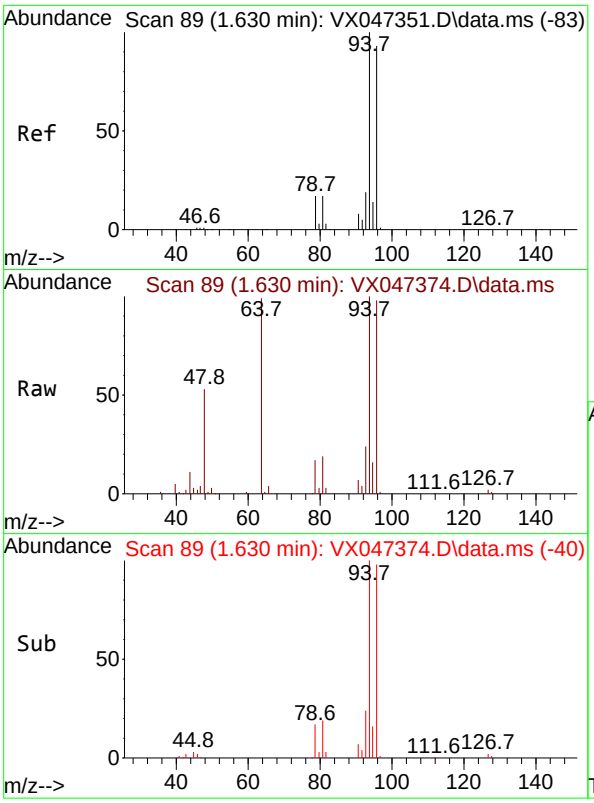


#4
Vinyl Chloride
Concen: 19.117 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 62 Resp: 70527

Ion	Ratio	Lower	Upper
62	100		
64	70.4	26.5	39.7#

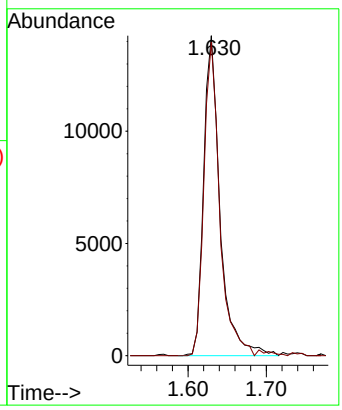




#5
Bromomethane
Concen: 13.900 ug/l
RT: 1.630 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 94 Resp: 2071

Ion	Ratio	Lower	Upper
94	100		
96	84.5	74.7	112.1



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Manual Integrations APPROVED

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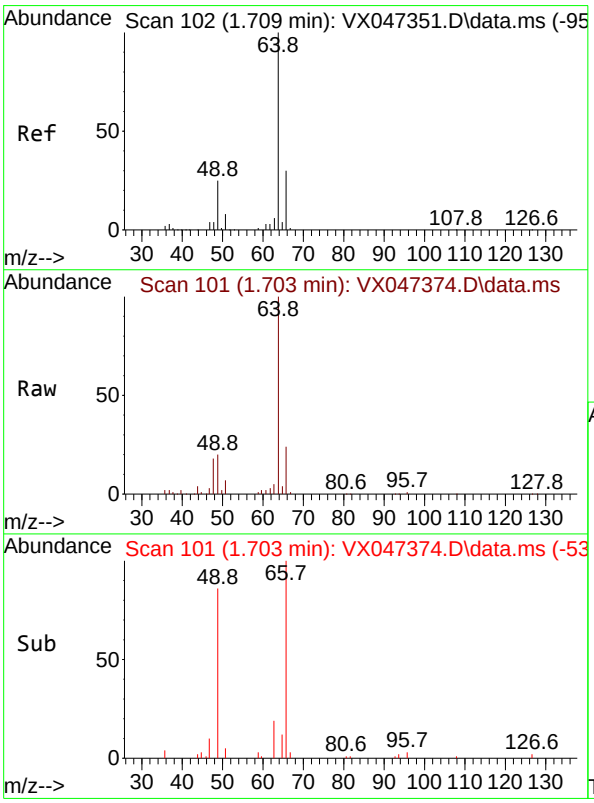
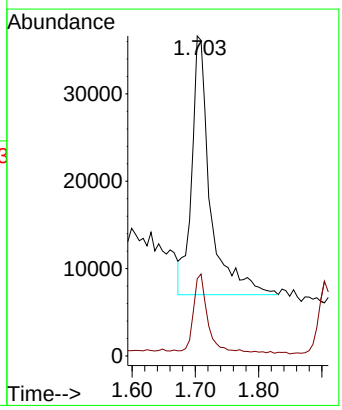
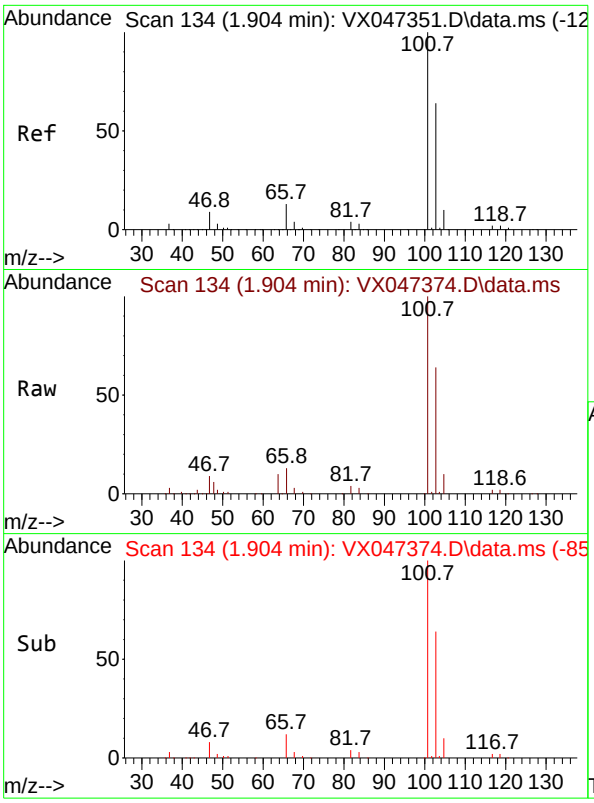


#6
Chloroethane
Concen: 26.745 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 64 Resp: 60368

Ion	Ratio	Lower	Upper
64	100		
66	28.4	24.4	36.6

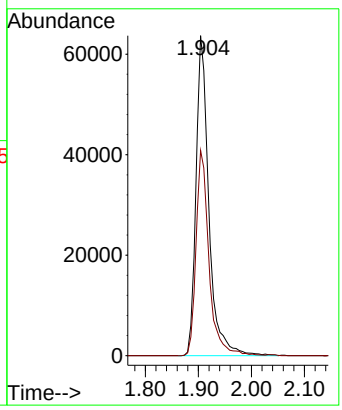




#7
Trichlorofluoromethane
Concen: 19.663 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:101 Resp: 10729

Ion	Ratio	Lower	Upper
101	100		
103	64.2	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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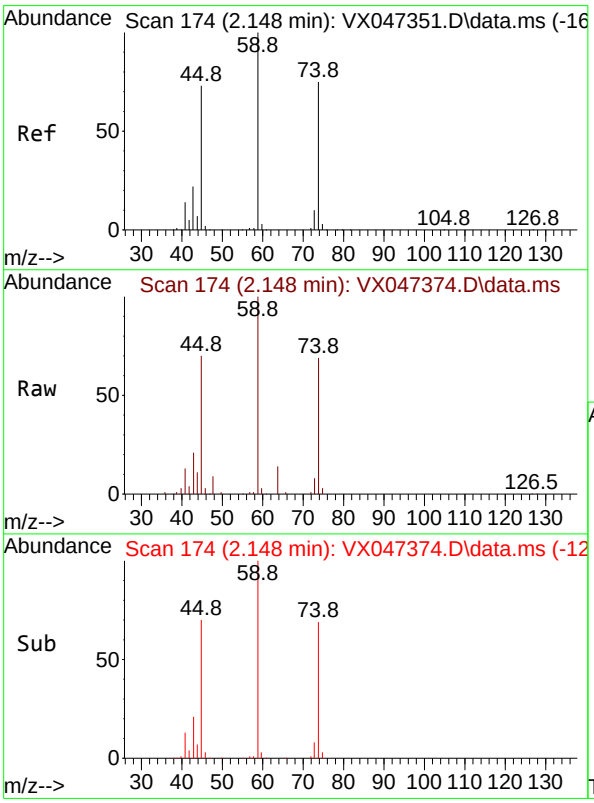
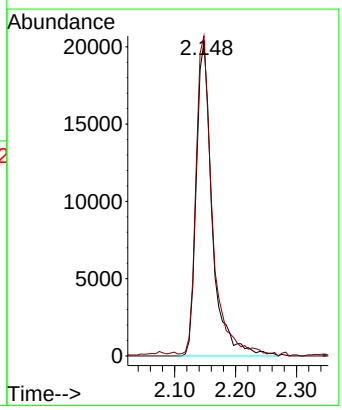
Supervised By :Mahesh Dadoda 08/20/2025

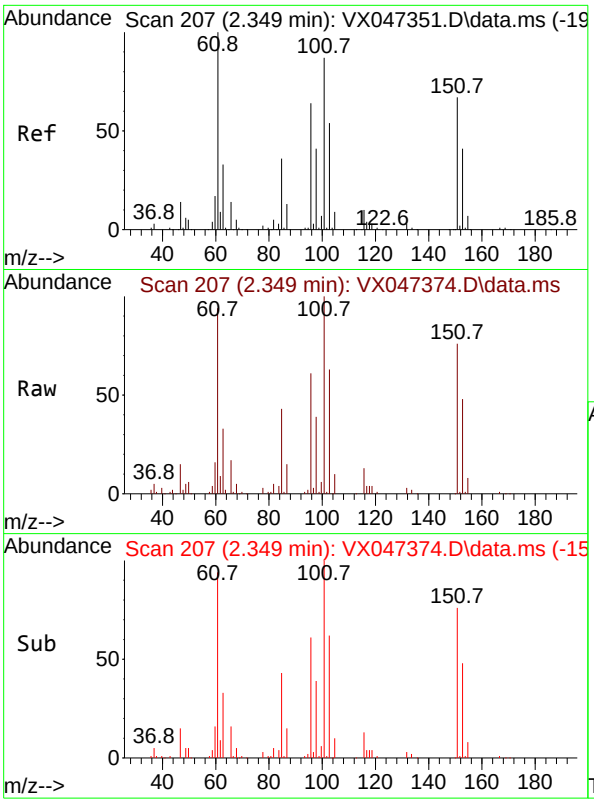


#8
Diethyl Ether
Concen: 19.234 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 74 Resp: 36957

Ion	Ratio	Lower	Upper
74	100		
45	105.3	51.3	154.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.328 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:101 Resp: 6434

Ion	Ratio	Lower	Upper
101	100		
85	43.6	34.3	51.5
151	75.5	59.2	88.8

Instrument :
MSVOA_X
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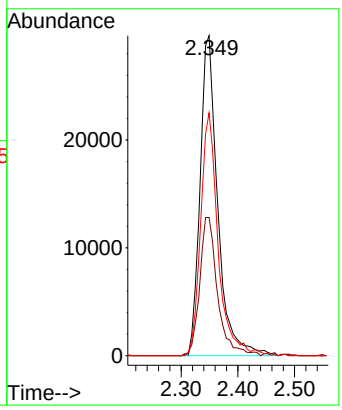
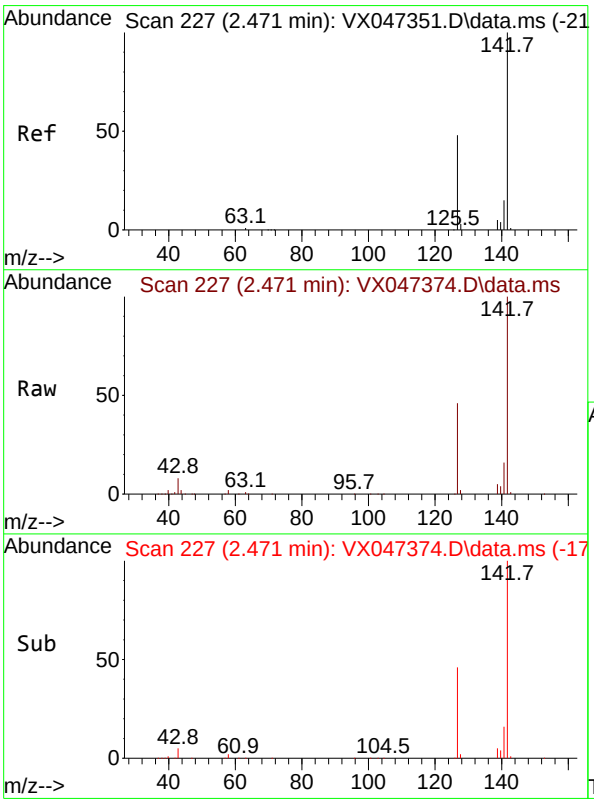
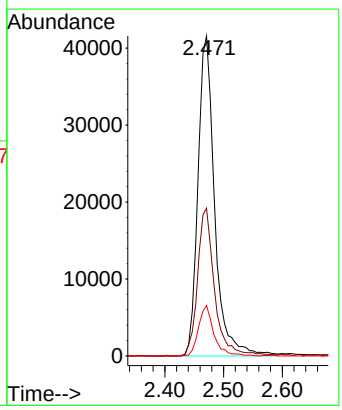


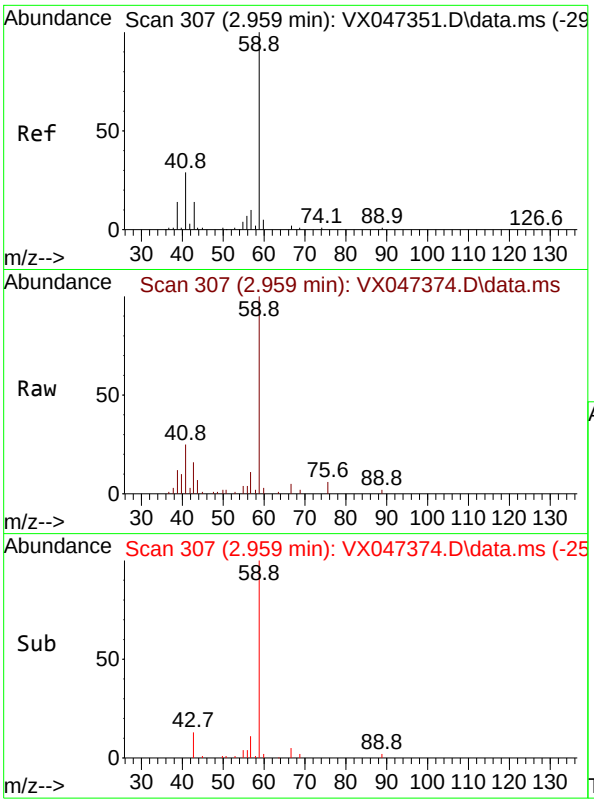


#10
Methyl Iodide
Concen: 15.126 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:142 Resp: 82052

Ion	Ratio	Lower	Upper
142	100		
127	47.0	36.1	54.1
141	14.5	11.1	16.7

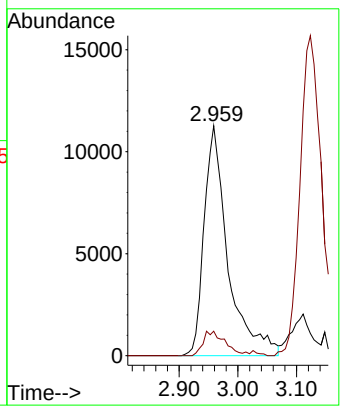




#11
Tert butyl alcohol
Concen: 102.089 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 59 Resp: 3185

Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.3	12.5



Instrument :
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ClientSampleId :
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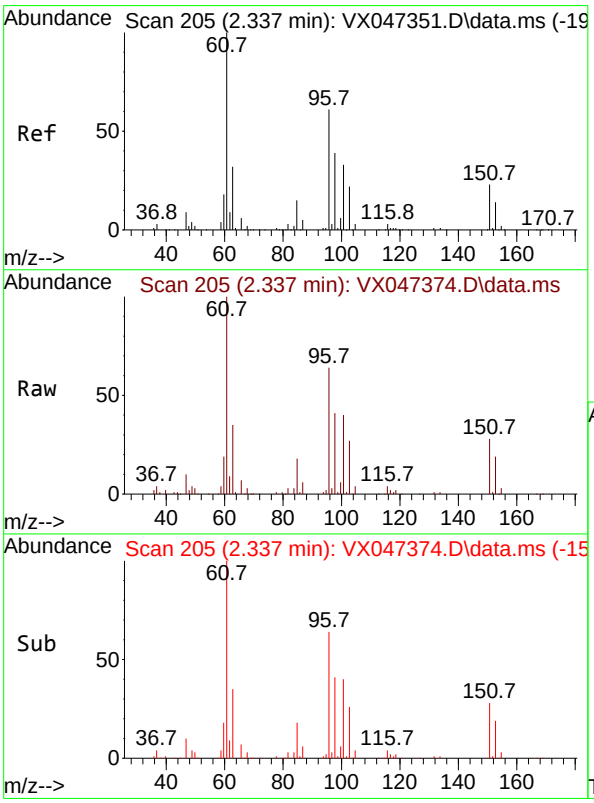
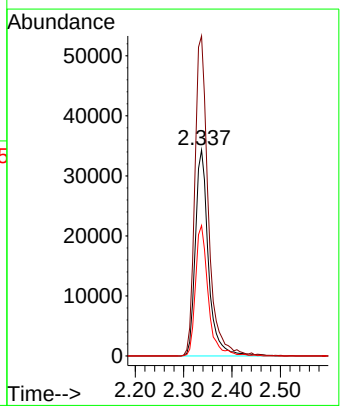
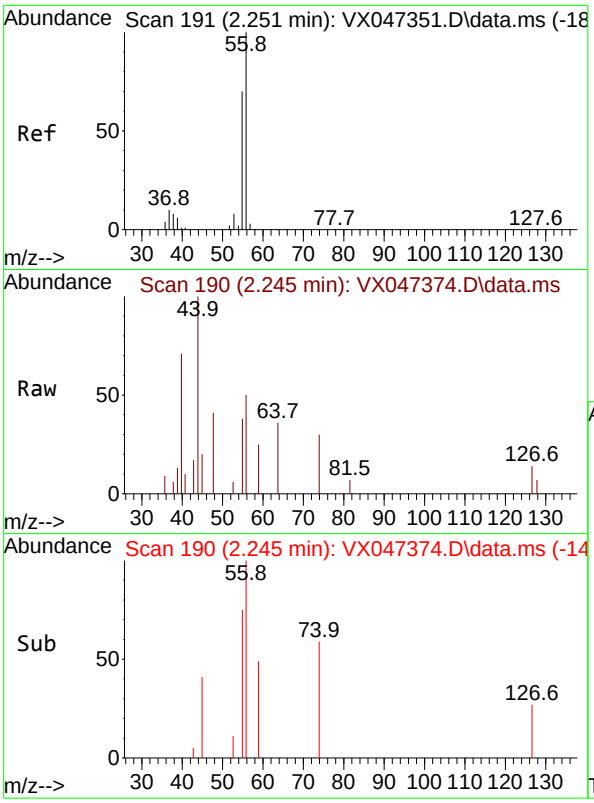


#12
1,1-Dichloroethene
Concen: 19.904 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 96 Resp: 64232

Ion	Ratio	Lower	Upper
96	100		
61	155.4	132.2	198.2
98	63.3	51.2	76.8





#13
Acrolein
Concen: 0.931 ug/l
RT: 2.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 56 Resp: 61

Ion	Ratio	Lower	Upper
56	100		
55	124.0	55.5	83.3#

Instrument :
MSVOA_X
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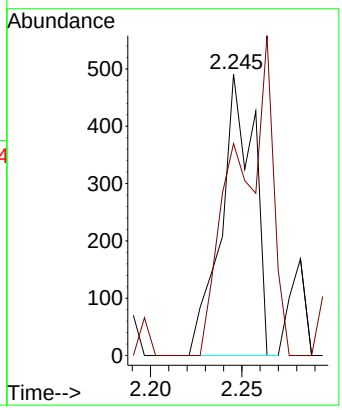
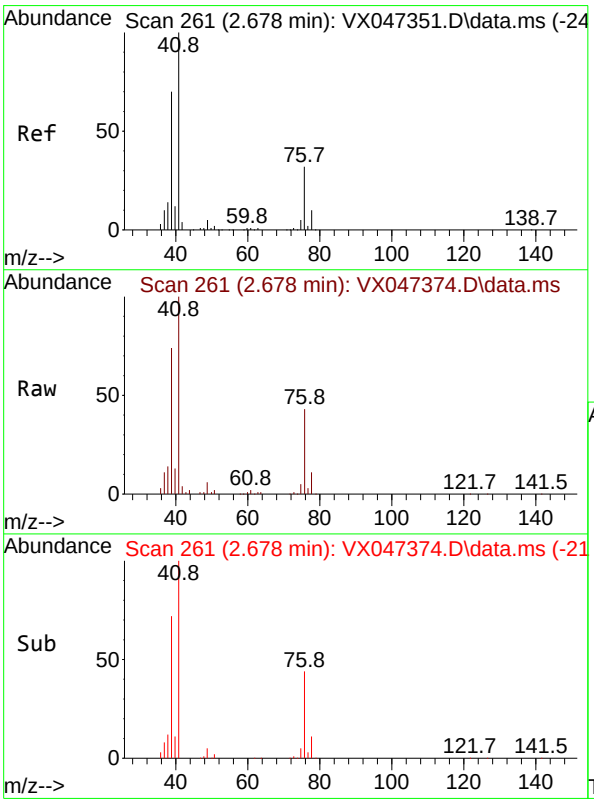
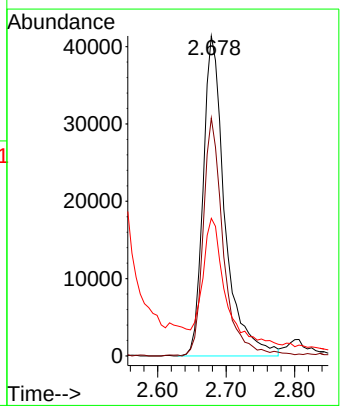


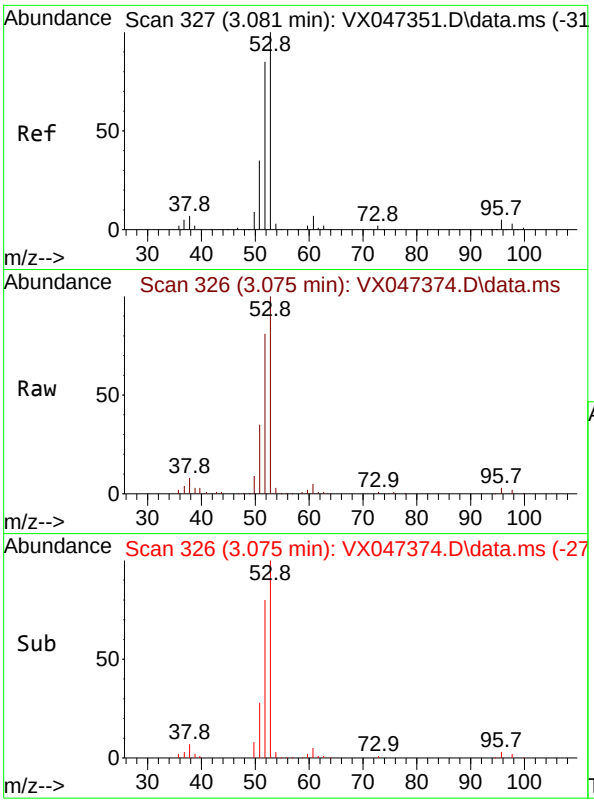


#14
Allyl chloride
Concen: 16.296 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 41 Resp: 91338

Ion	Ratio	Lower	Upper
41	100		
39	69.1	54.6	81.8
76	40.2	27.6	41.4

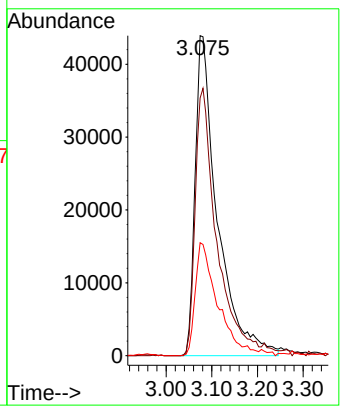




#15
Acrylonitrile
Concen: 98.415 ug/l
RT: 3.075 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 53 Resp: 14839

Ion	Ratio	Lower	Upper
53	100		
52	80.2	65.8	98.6
51	35.6	28.2	42.2



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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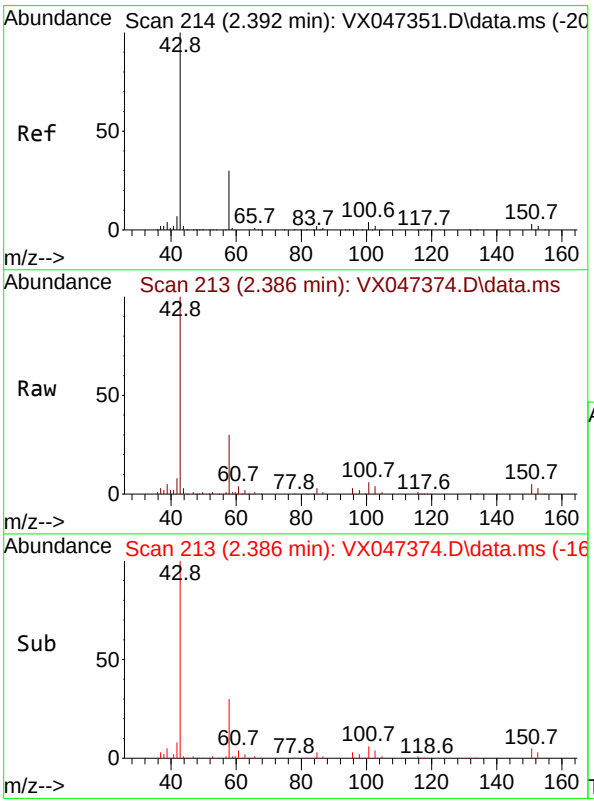
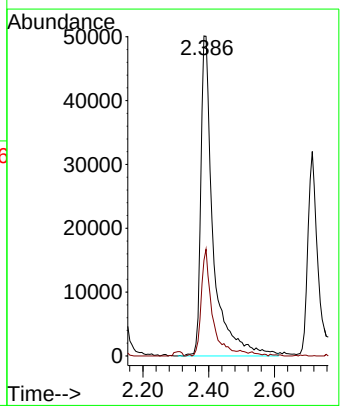
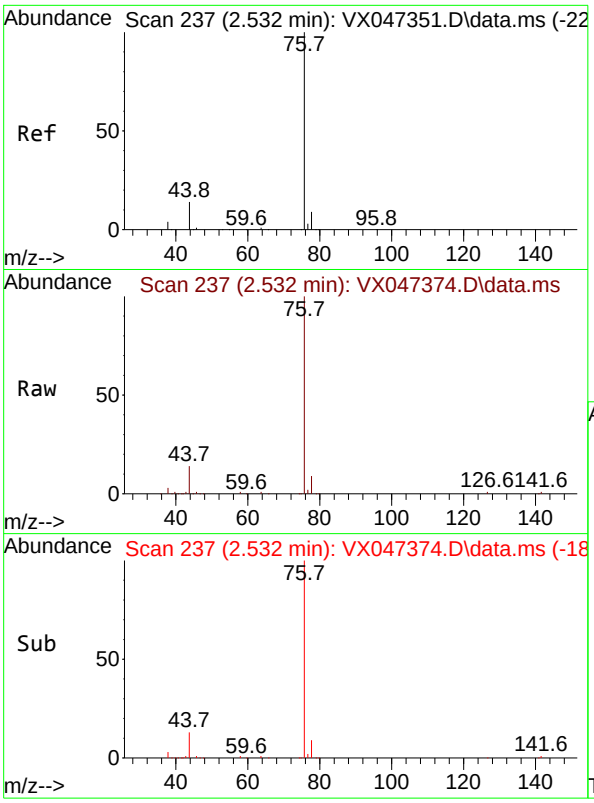


#16
Acetone
Concen: 97.762 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 43 Resp: 131812

Ion	Ratio	Lower	Upper
43	100		
58	30.0	24.8	37.2

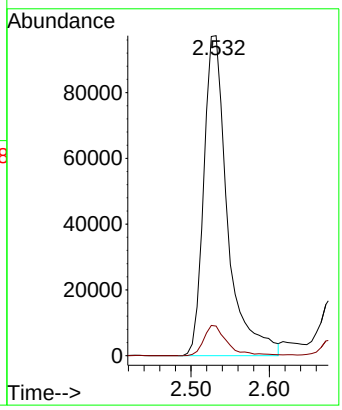




#17
Carbon Disulfide
Concen: 21.078 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 76 Resp: 20525

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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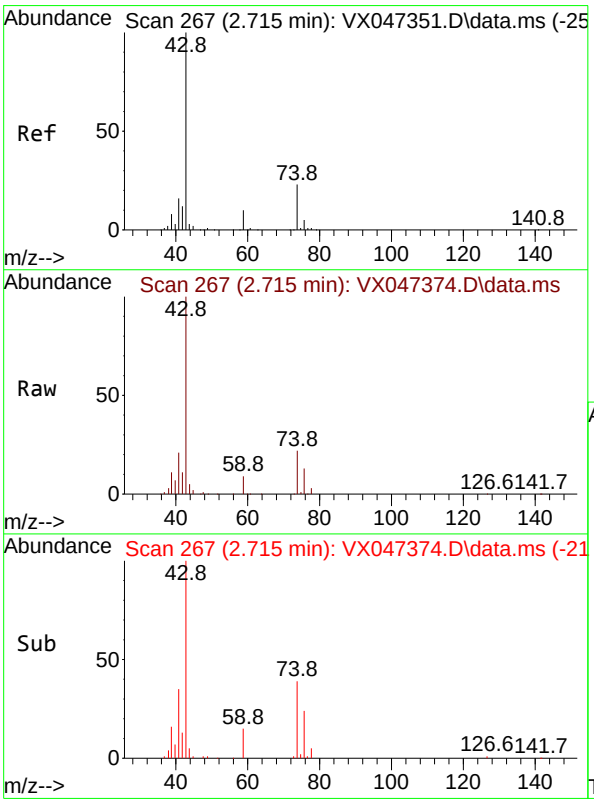
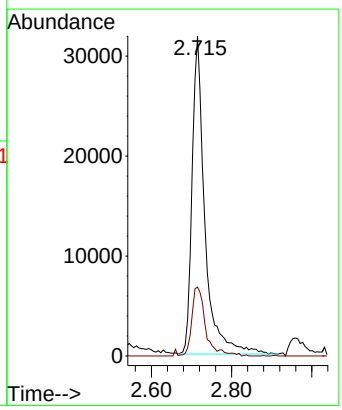
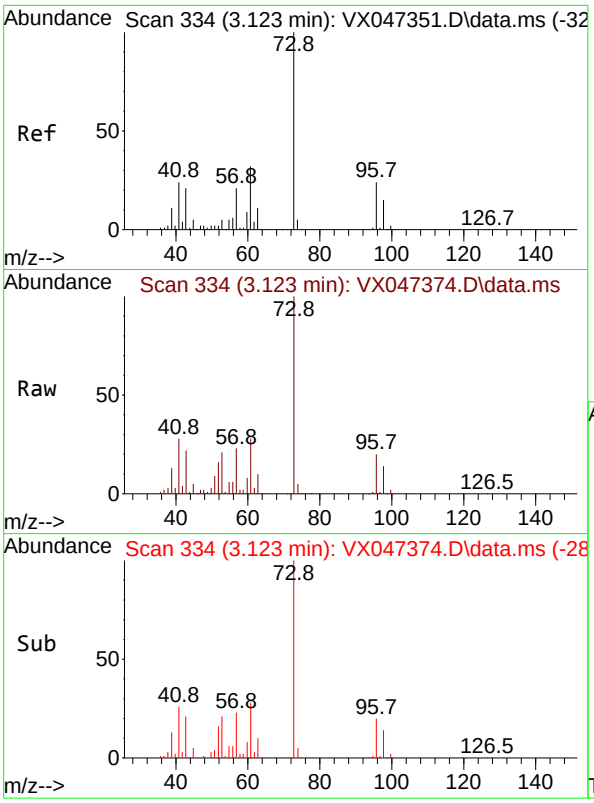


#18
Methyl Acetate
Concen: 20.121 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 43 Resp: 70302

Ion	Ratio	Lower	Upper
43	100		
74	23.0	18.4	27.6

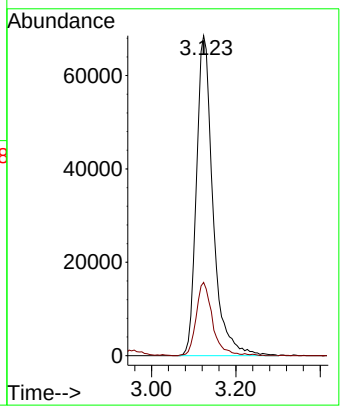




#19
Methyl tert-butyl Ether
Concen: 19.069 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 73 Resp: 18720

Ion	Ratio	Lower	Upper
73	100		
57	22.9	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
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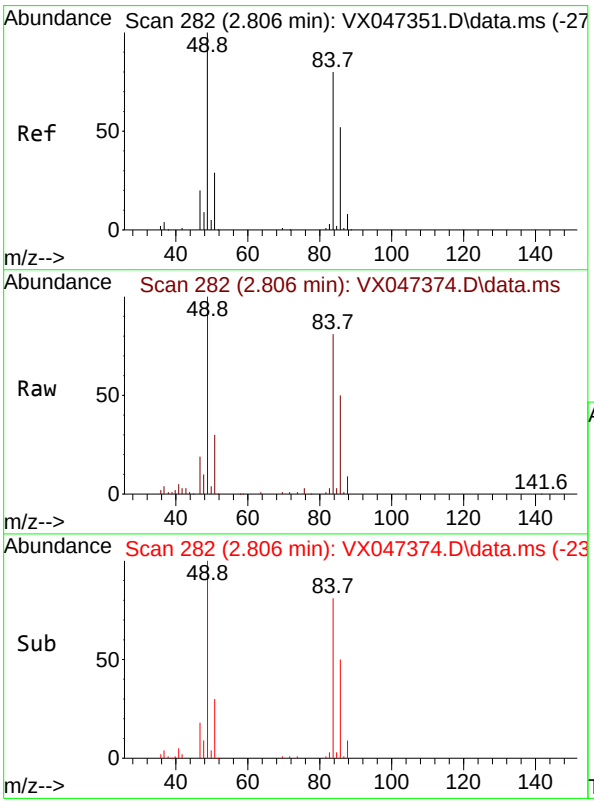
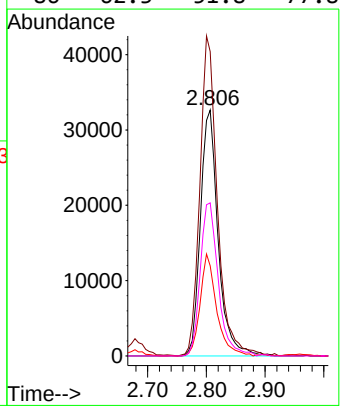
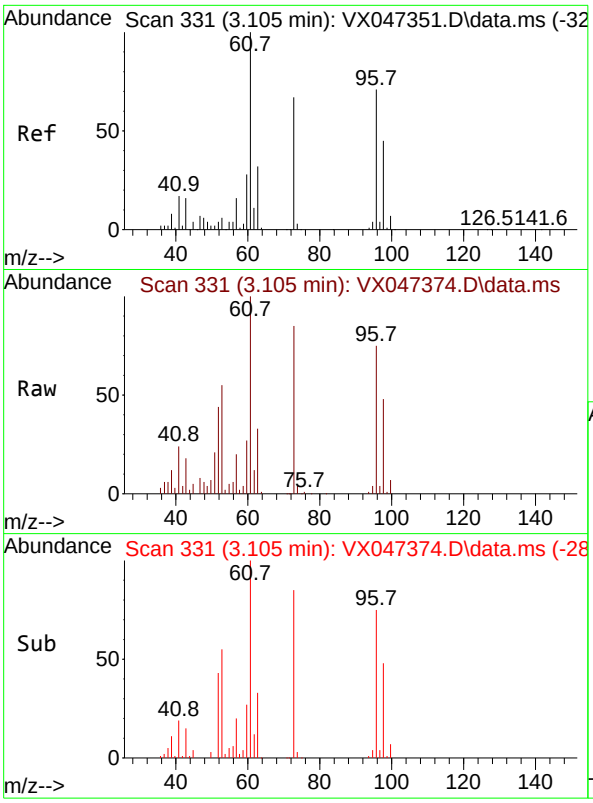


#20
Methylene Chloride
Concen: 19.243 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 84 Resp: 68704

Ion	Ratio	Lower	Upper
84	100		
49	123.8	100.1	150.1
51	36.7	29.5	44.3
86	62.3	51.8	77.8

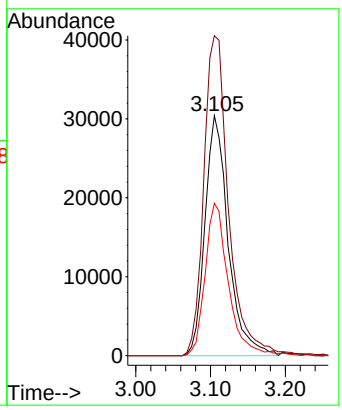




#21
trans-1,2-Dichloroethene
Concen: 19.248 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 96 Resp: 6592

Ion	Ratio	Lower	Upper
96	100		
61	133.3	112.6	169.0
98	63.5	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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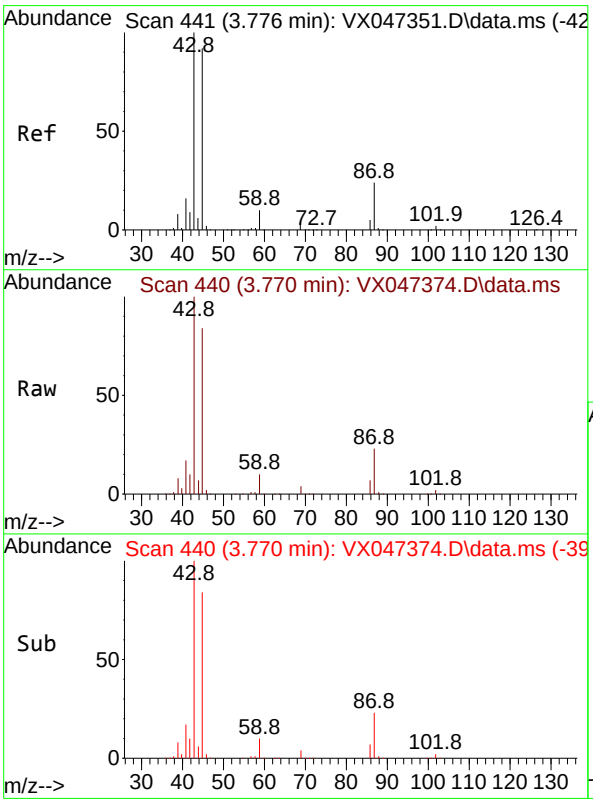
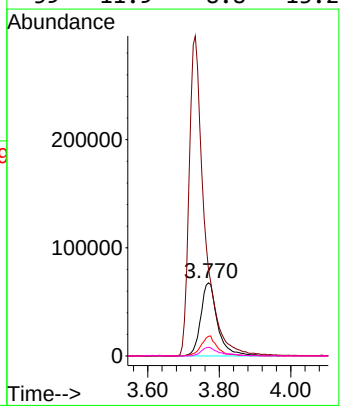
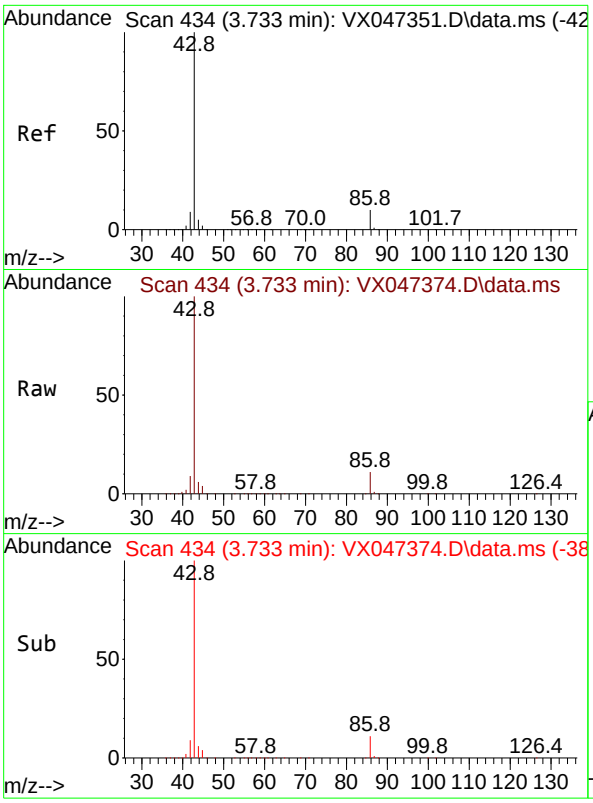


#22
Diisopropyl ether
Concen: 19.995 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 45 Resp: 221531

Ion	Ratio	Lower	Upper
45	100		
43	118.8	86.8	130.2
87	27.0	20.4	30.6
59	11.9	8.8	13.2

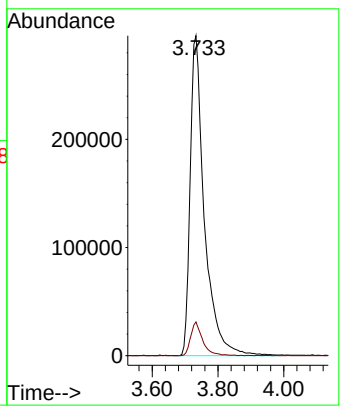




#23
Vinyl Acetate
Concen: 97.510 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 43 Resp: 88548

Ion	Ratio	Lower	Upper
43	100		
86	10.6	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
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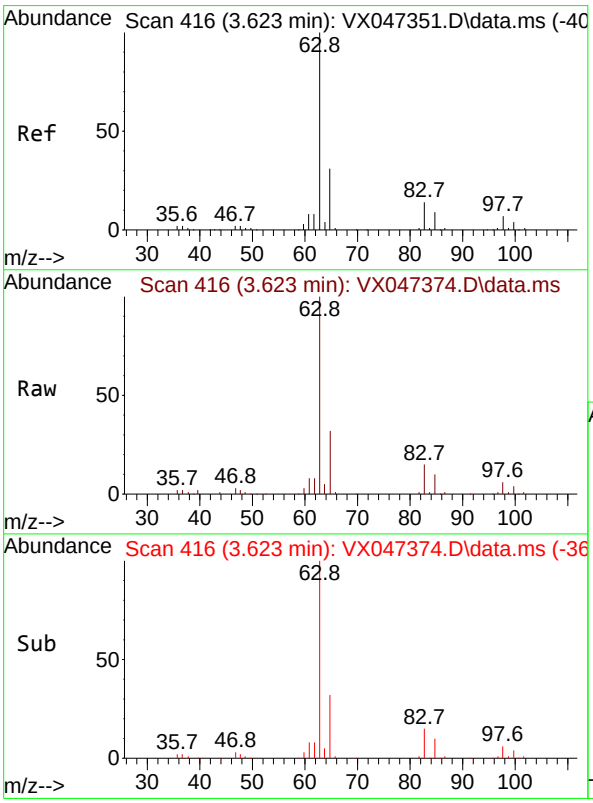
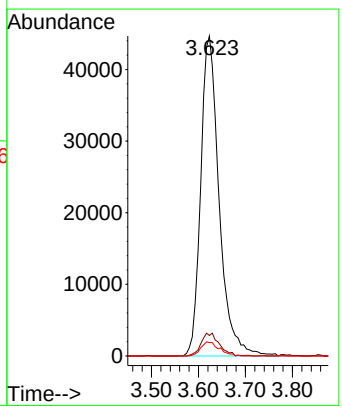
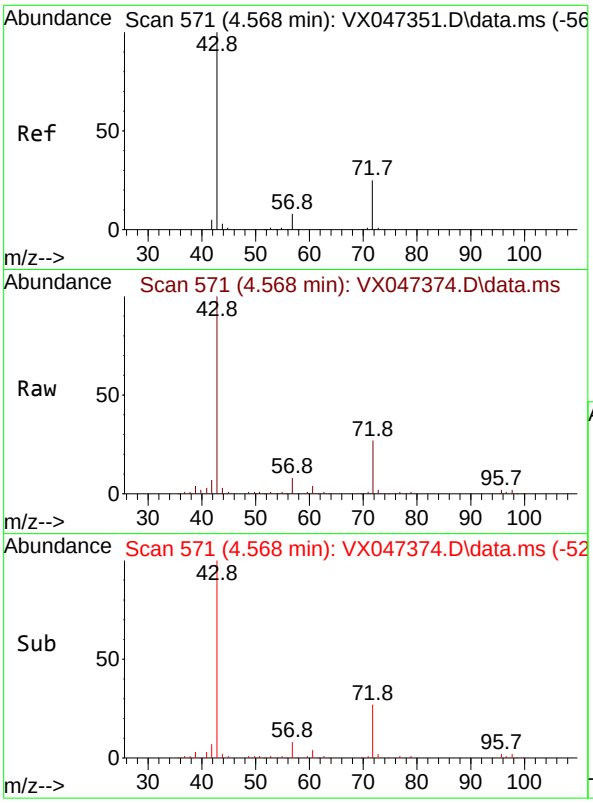


#24
1,1-Dichloroethane
Concen: 19.399 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 63 Resp: 121482

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.3	9.9
100	4.3	2.1	6.3

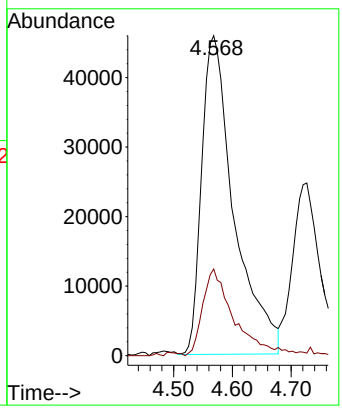




#25
2-Butanone
Concen: 99.242 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 43 Resp: 17524

Ion	Ratio	Lower	Upper
43	100		
72	26.1	19.8	29.8



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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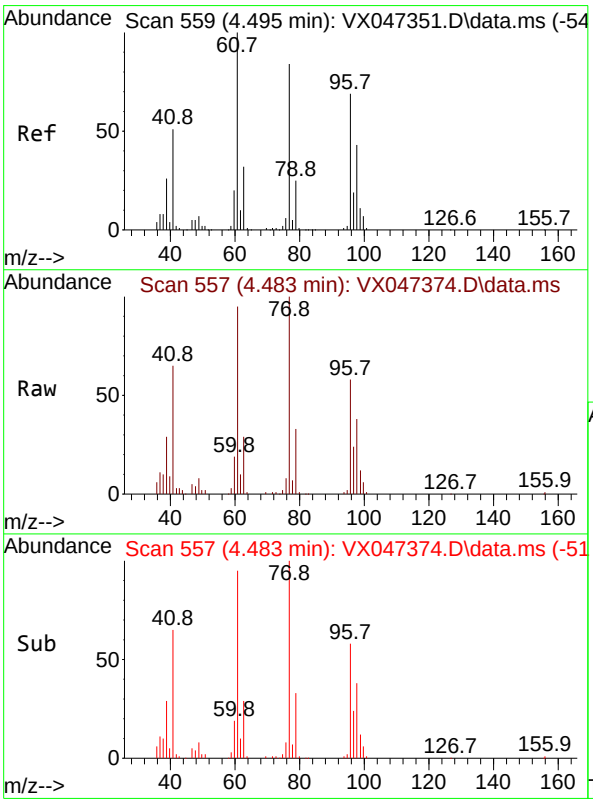
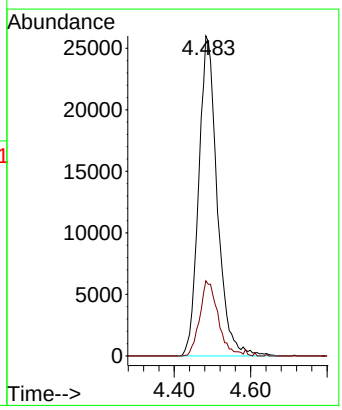
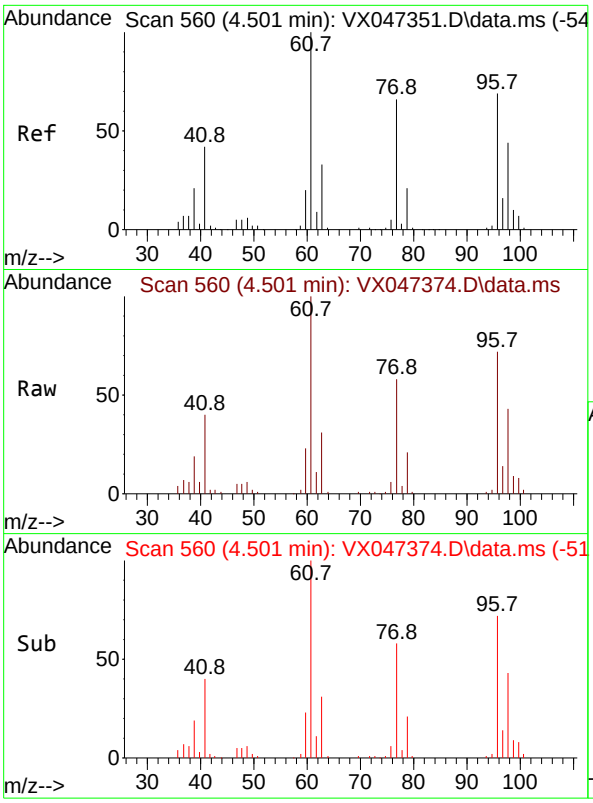


#26
2,2-Dichloropropane
Concen: 18.494 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.012 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 77 Resp: 87410

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.4	34.1

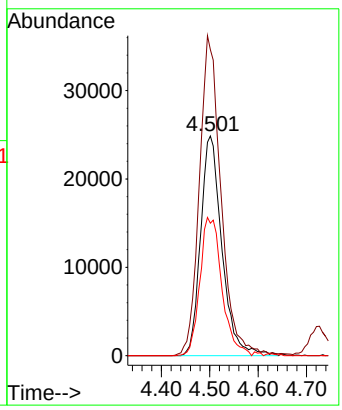




#27
cis-1,2-Dichloroethene
Concen: 19.096 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 96 Resp: 7618

Ion	Ratio	Lower	Upper
96	100		
61	148.4	0.0	296.6
98	64.8	0.0	130.4



Instrument :
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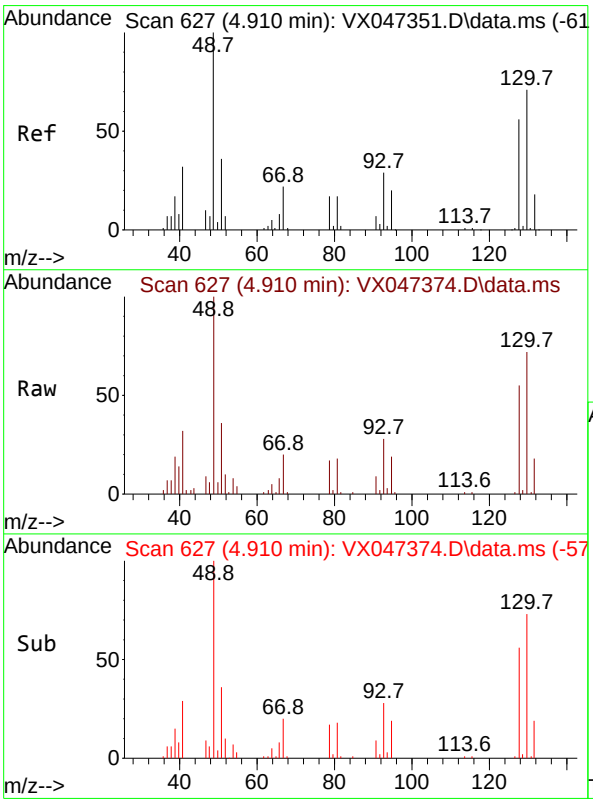
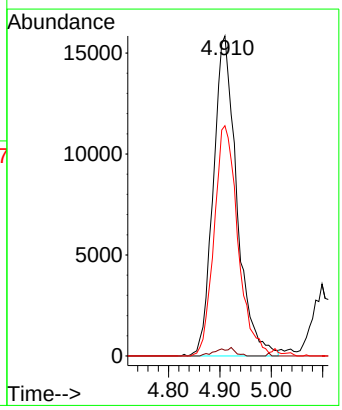
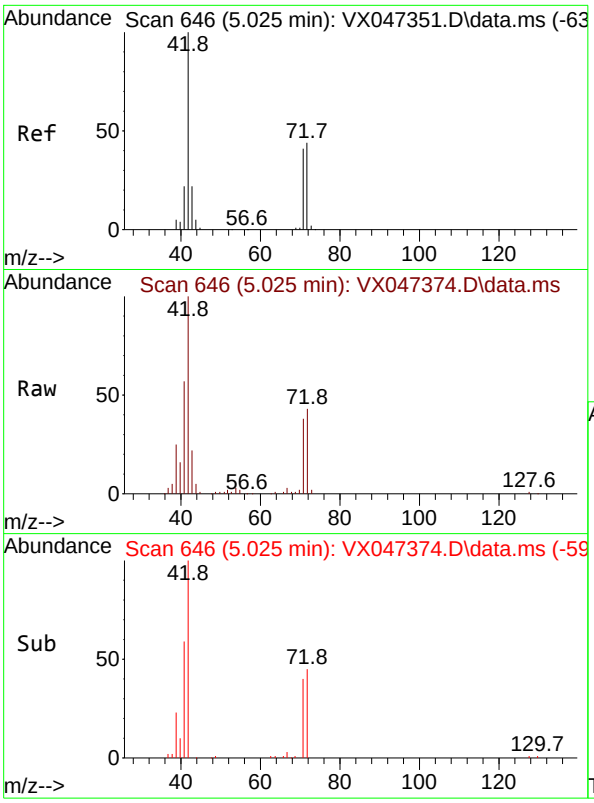


#28
Bromochloromethane
Concen: 19.305 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 49 Resp: 50307

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.0
130	72.8	59.8	89.6

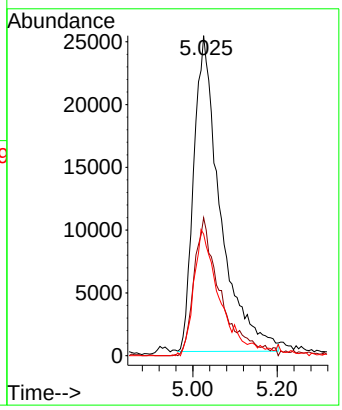




#29
Tetrahydrofuran
Concen: 96.574 ug/l
RT: 5.025 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 42 Resp: 11022

Ion	Ratio	Lower	Upper
42	100		
72	42.5	34.6	51.8
71	37.4	32.6	49.0



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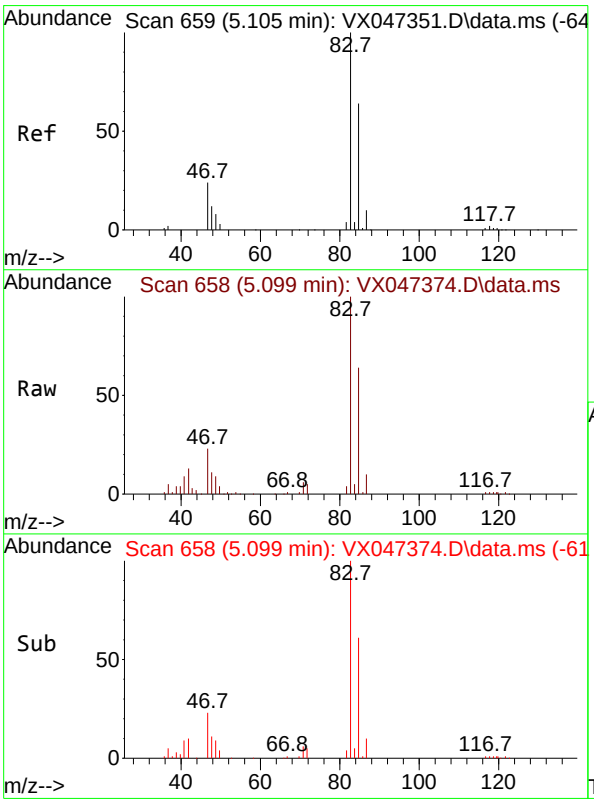
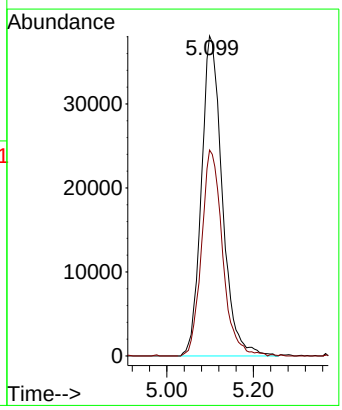
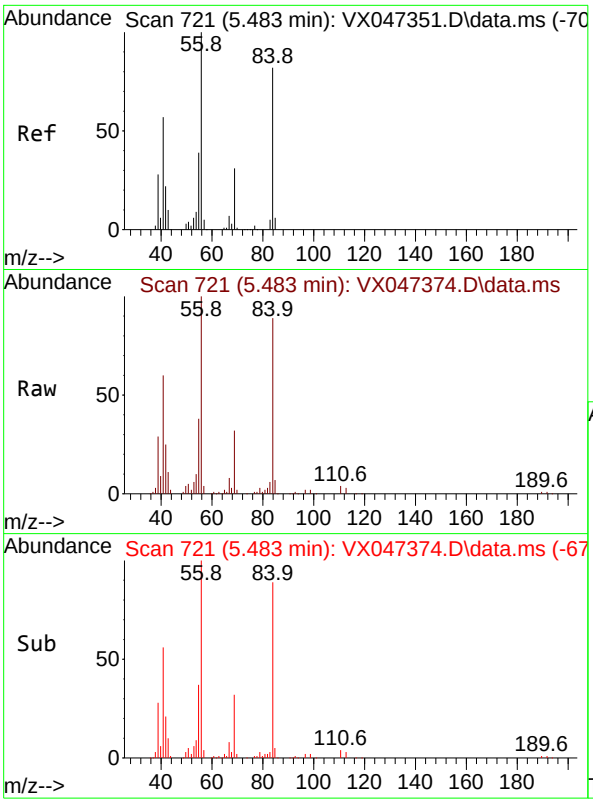


#30
Chloroform
Concen: 19.969 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 83 Resp: 127625

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.2	76.8

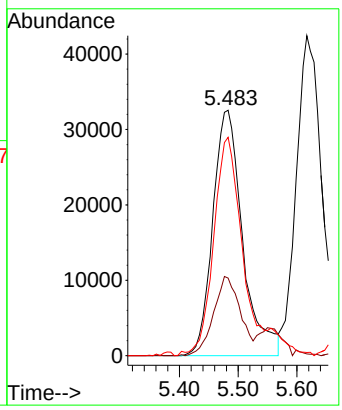




#31
Cyclohexane
Concen: 19.853 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 56 Resp: 11460

Ion	Ratio	Lower	Upper
56	100		
69	31.6	24.3	36.5
84	88.9	65.3	97.9



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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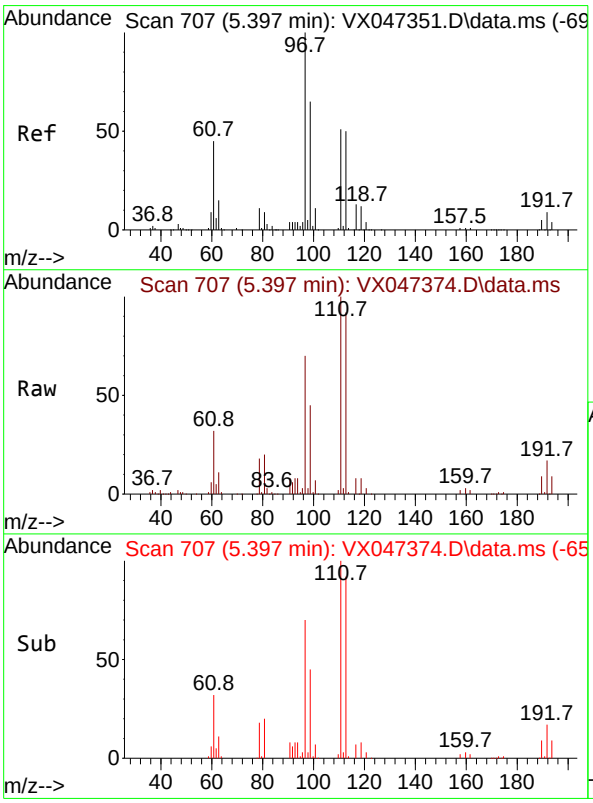
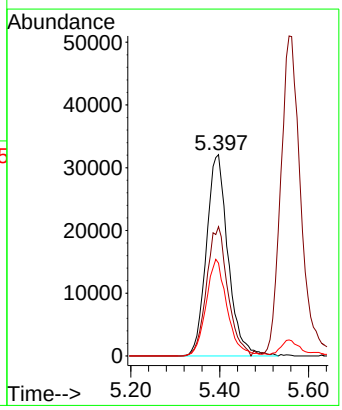
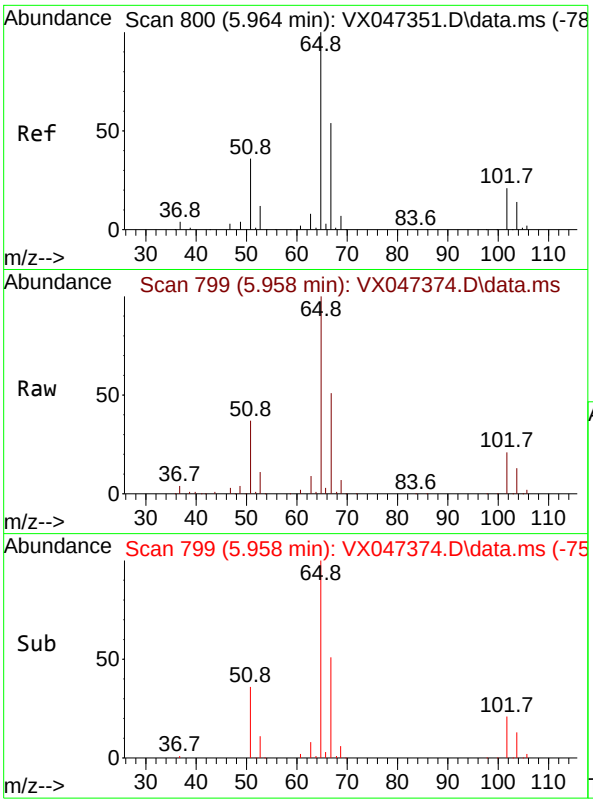


#32
1,1,1-Trichloroethane
Concen: 19.732 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 97 Resp: 108545

Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.4	77.0
61	46.7	35.7	53.5

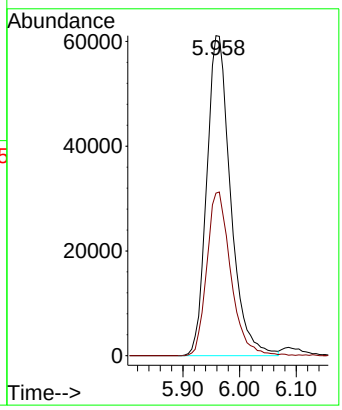




#33
1,2-Dichloroethane-d4
Concen: 49.694 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 65 Resp: 17825

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
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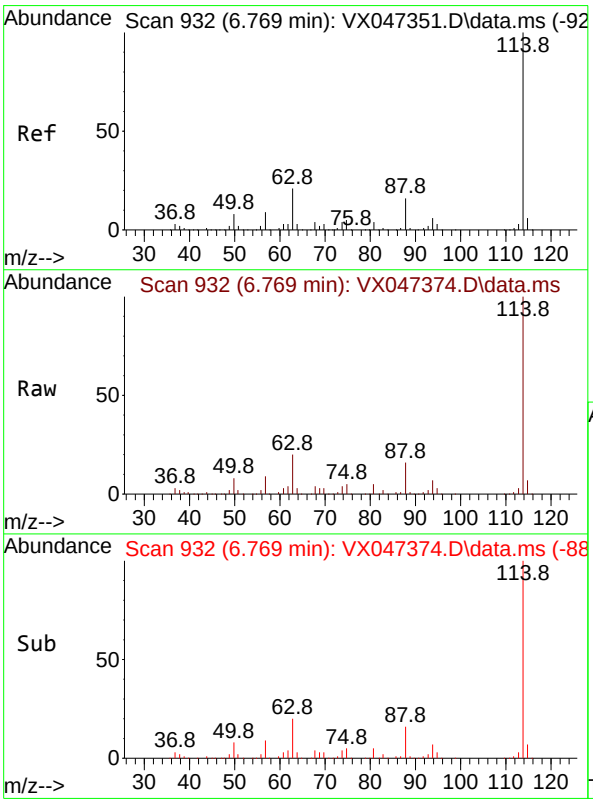
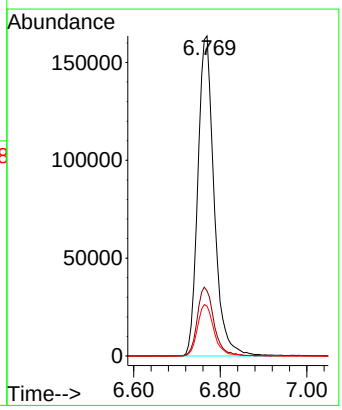
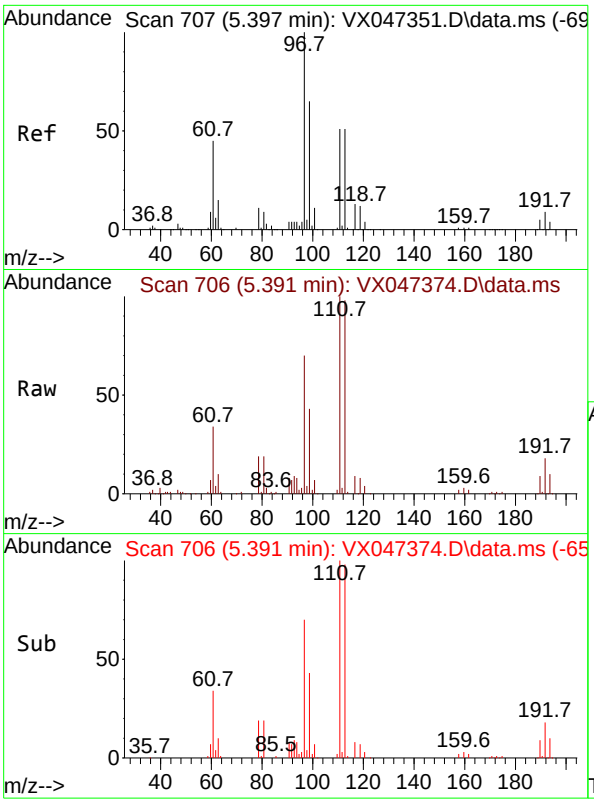


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:114 Resp: 426348

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.4
88	15.6	0.0	33.0

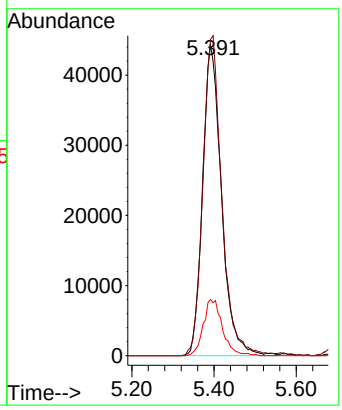




#35
Dibromofluoromethane
Concen: 51.359 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:113 Resp: 14211

Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.4	122.2
192	18.2	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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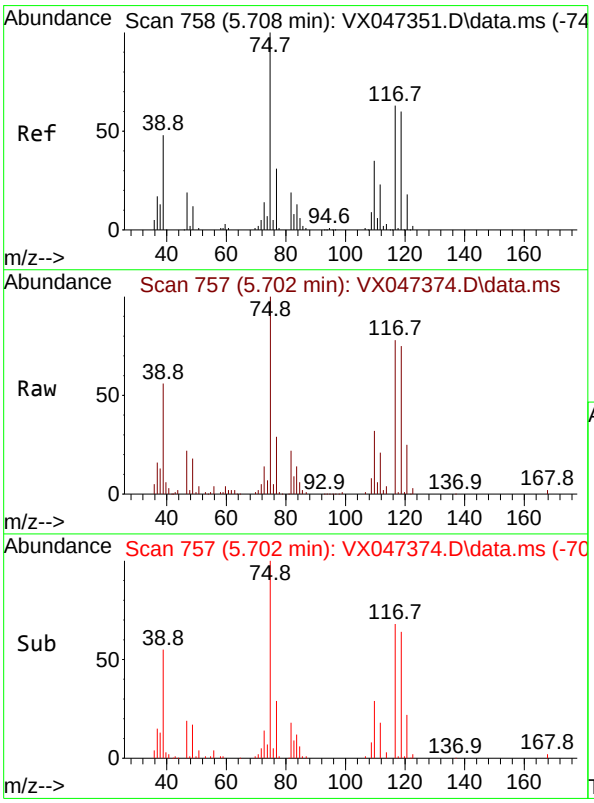
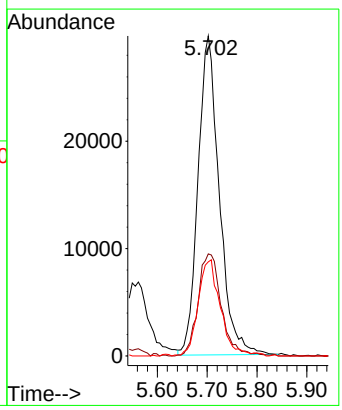
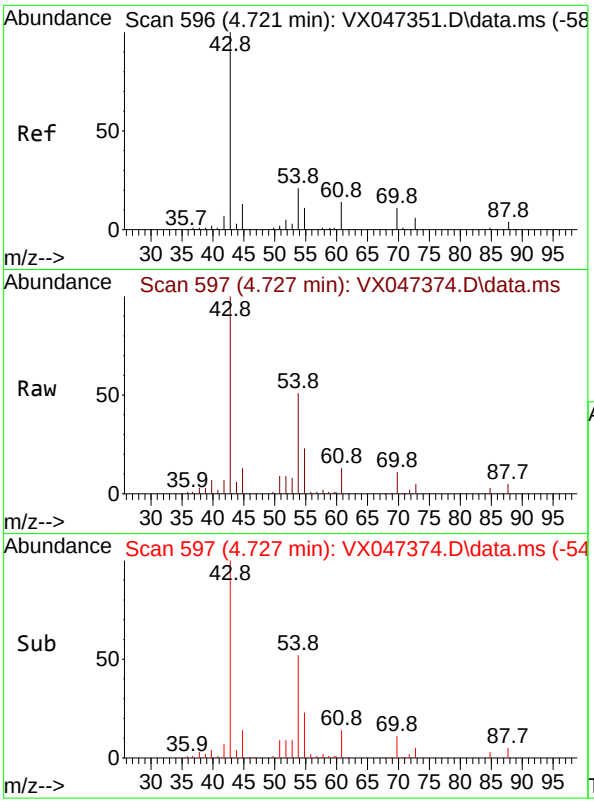


#36
1,1-Dichloropropene
Concen: 20.185 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 75 Resp: 88168

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.4	52.2
77	31.1	24.4	36.6

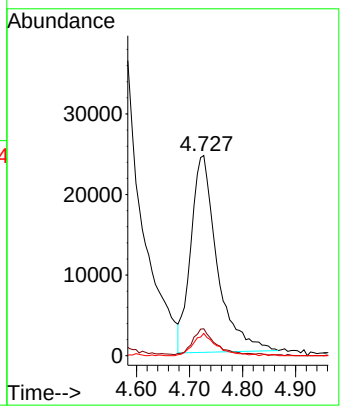




#37
Ethyl Acetate
Concen: 18.615 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 43 Resp: 8441

Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.4	14.2
70	10.0	7.0	10.6



Instrument :
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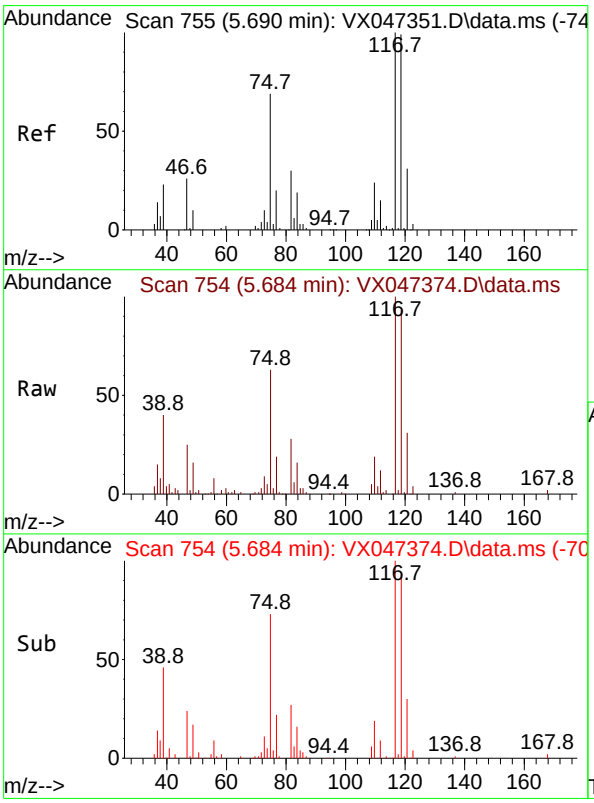
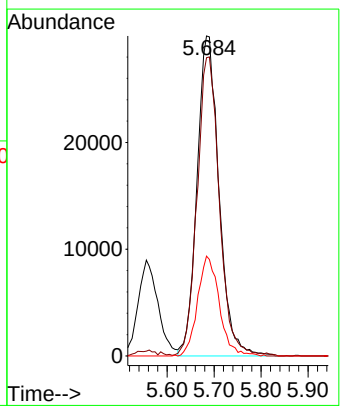
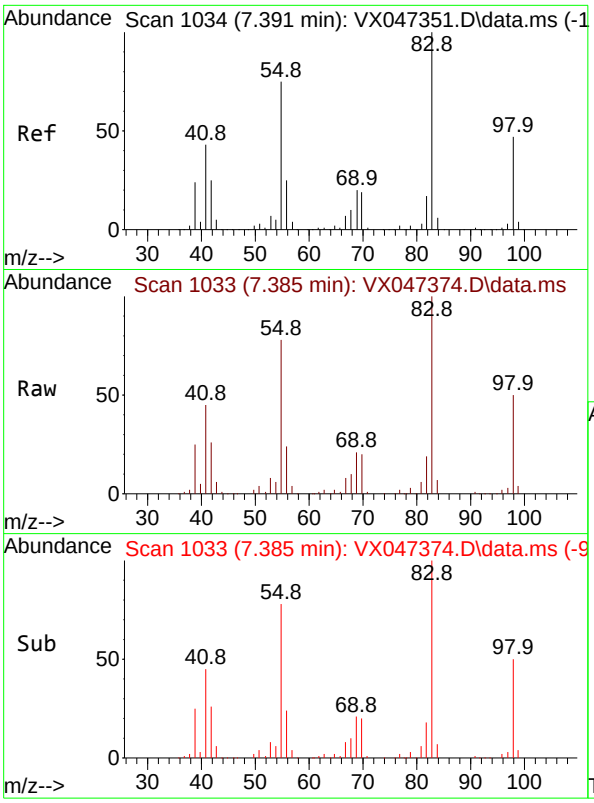


#38
Carbon Tetrachloride
Concen: 20.434 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:117 Resp: 97536

Ion	Ratio	Lower	Upper
117	100		
119	93.2	78.5	117.7
121	31.2	24.7	37.1

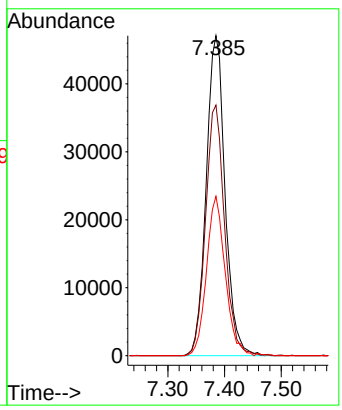




#39
Methylcyclohexane
Concen: 19.955 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 83 Resp: 10872

Ion	Ratio	Lower	Upper
83	100		
55	78.3	60.0	90.0
98	49.8	37.2	55.8



Instrument :
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ClientSampleId :
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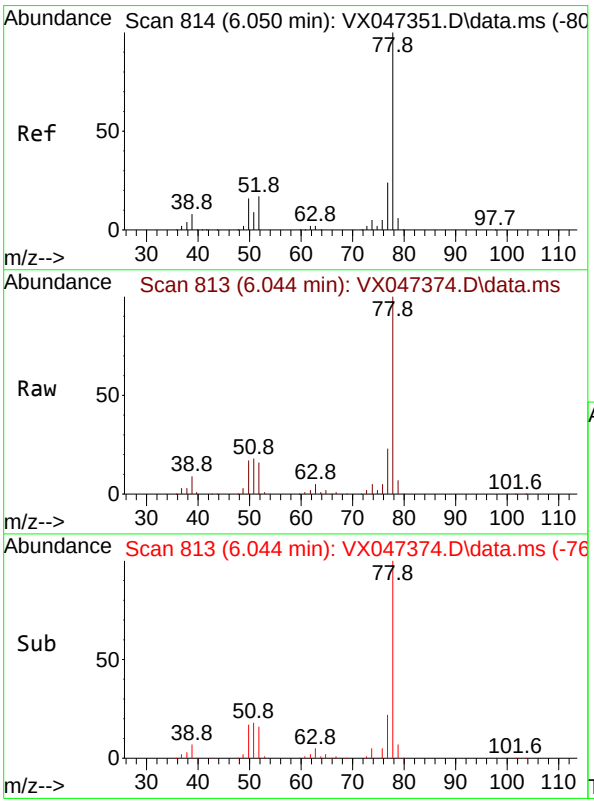
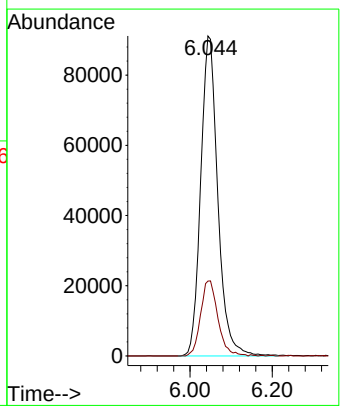
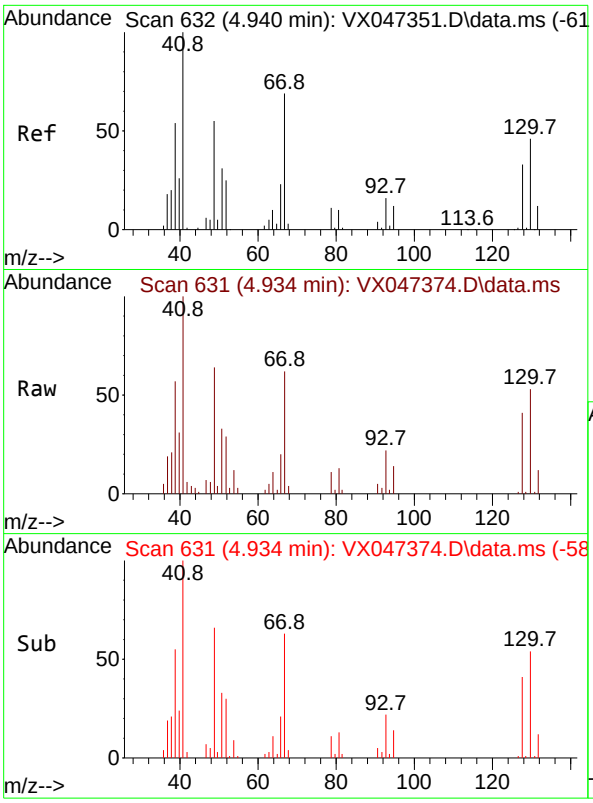


#40
Benzene
Concen: 20.096 ug/l
RT: 6.044 min Scan# 813
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 78 Resp: 262740

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4

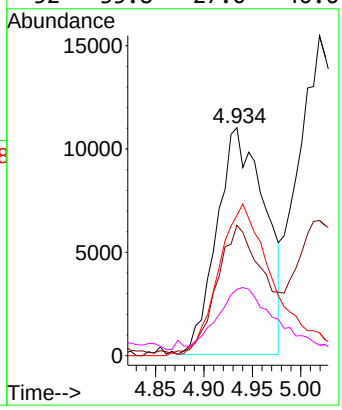




#41
Methacrylonitrile
Concen: 19.793 ug/l
RT: 4.934 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 41 Resp: 3784

Ion	Ratio	Lower	Upper
41	100		
39	57.0	45.4	68.2
67	78.4	64.0	96.0
52	35.8	27.0	40.6



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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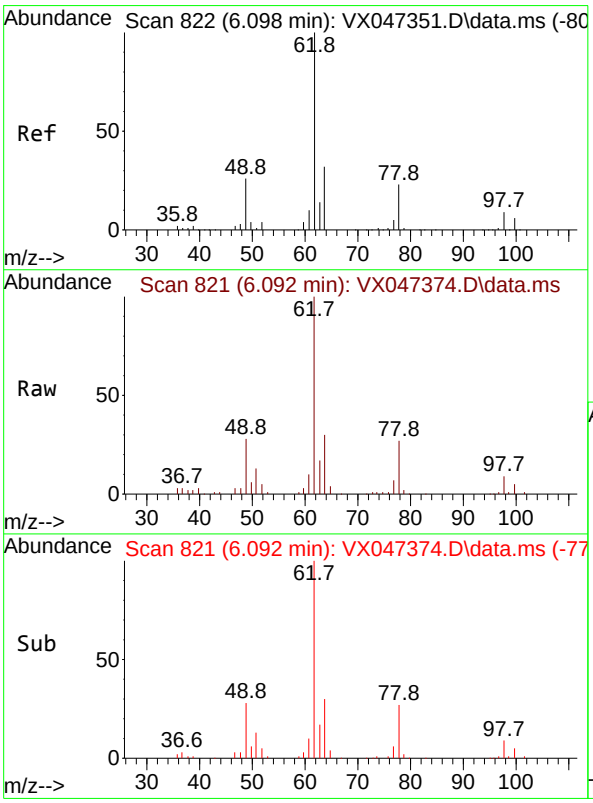
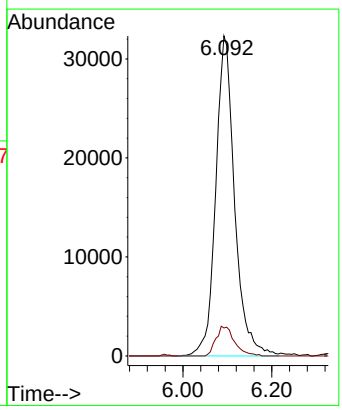
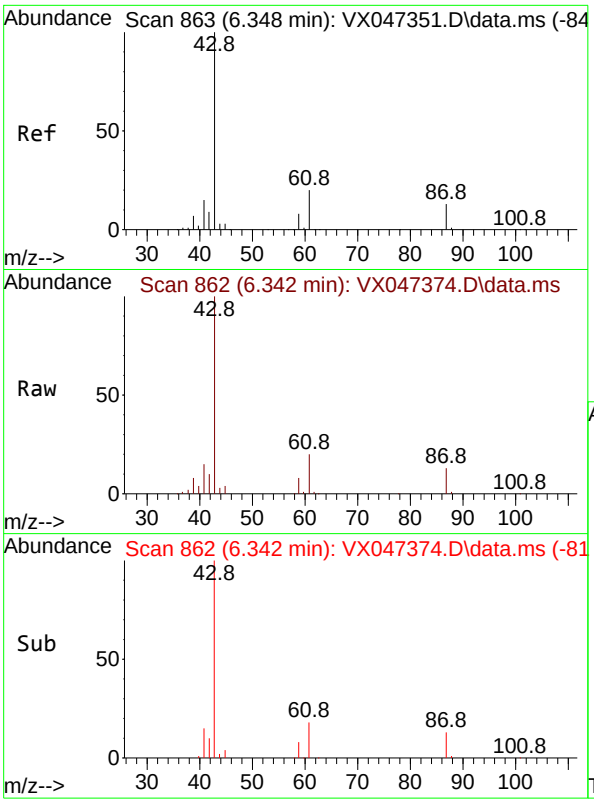


#42
1,2-Dichloroethane
Concen: 20.554 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 62 Resp: 95188

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.0

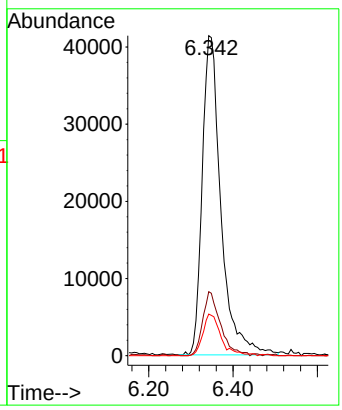




#43
Isopropyl Acetate
Concen: 19.606 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 43 Resp: 12772

Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.4	23.0
87	12.4	10.2	15.4



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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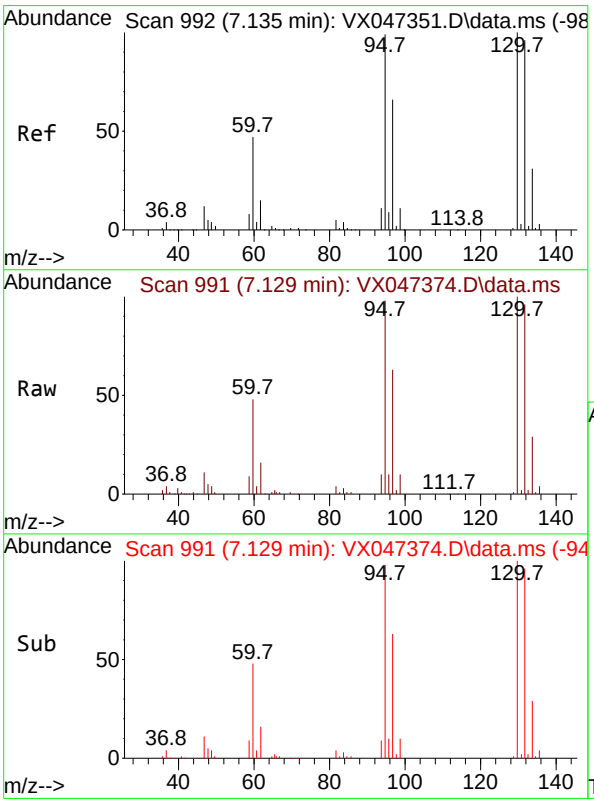
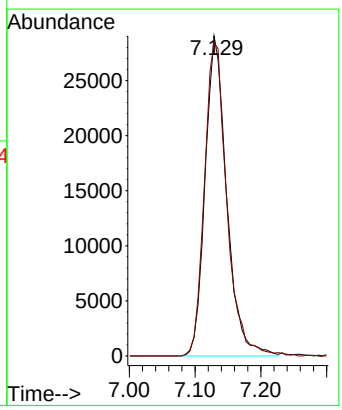
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

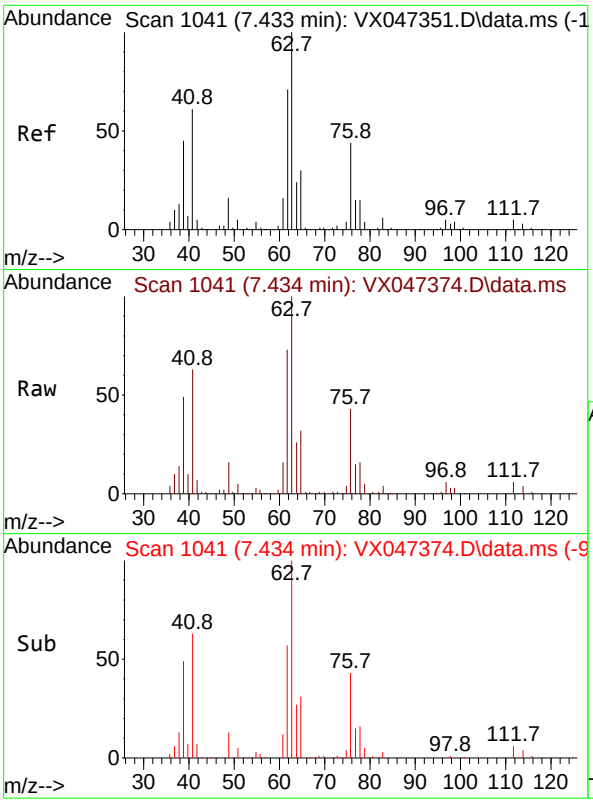


#44
Trichloroethene
Concen: 19.835 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:130 Resp: 66400

Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	198.6

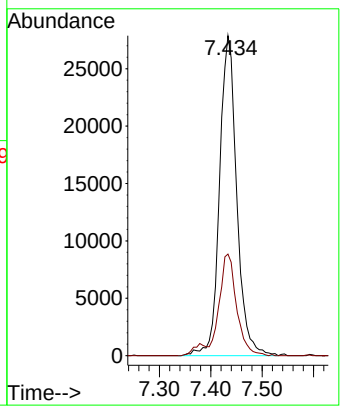




#45
1,2-Dichloropropane
Concen: 19.797 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 63 Resp: 6484

Ion	Ratio	Lower	Upper
63	100		
65	31.7	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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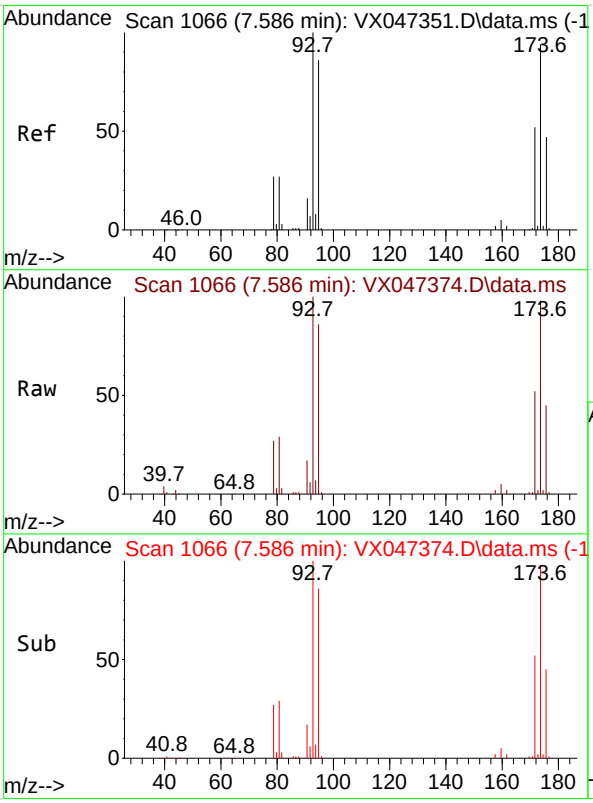
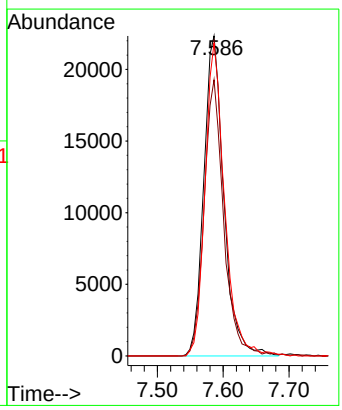
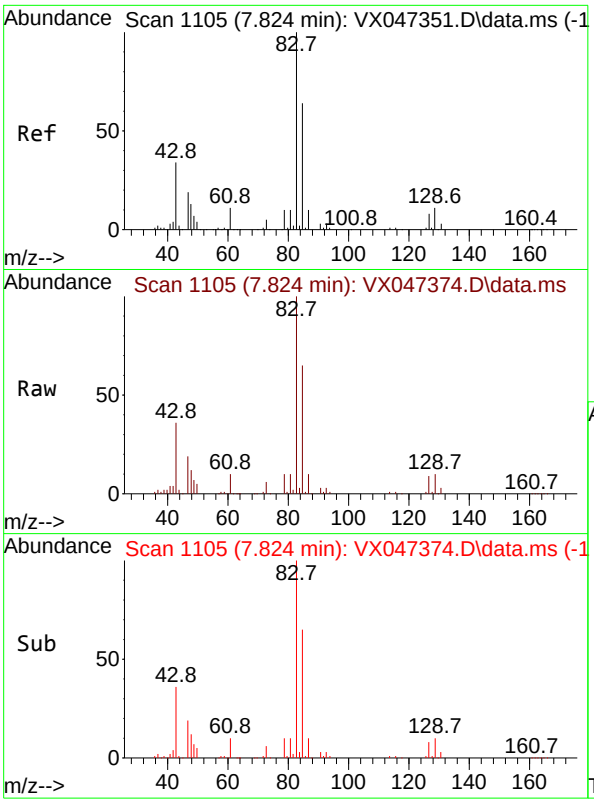


#46
Dibromomethane
Concen: 19.887 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 93 Resp: 47290

Ion	Ratio	Lower	Upper
93	100		
95	84.6	68.0	102.0
174	95.5	75.8	113.6

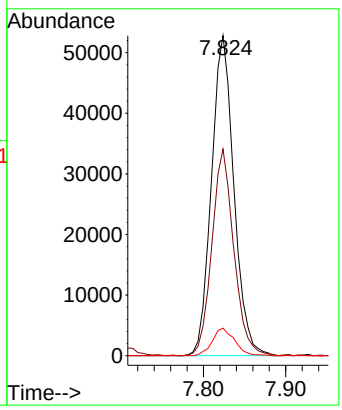




#47
Bromodichloromethane
Concen: 20.333 ug/l
RT: 7.824 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 83 Resp: 10023

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.0	76.6
127	8.6	7.0	10.4



Instrument :
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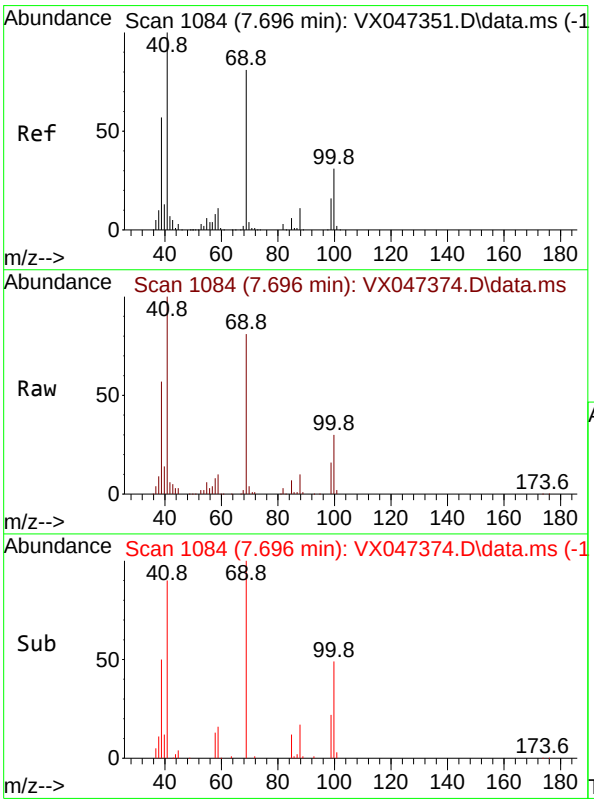
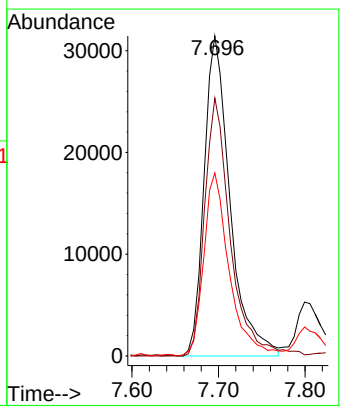
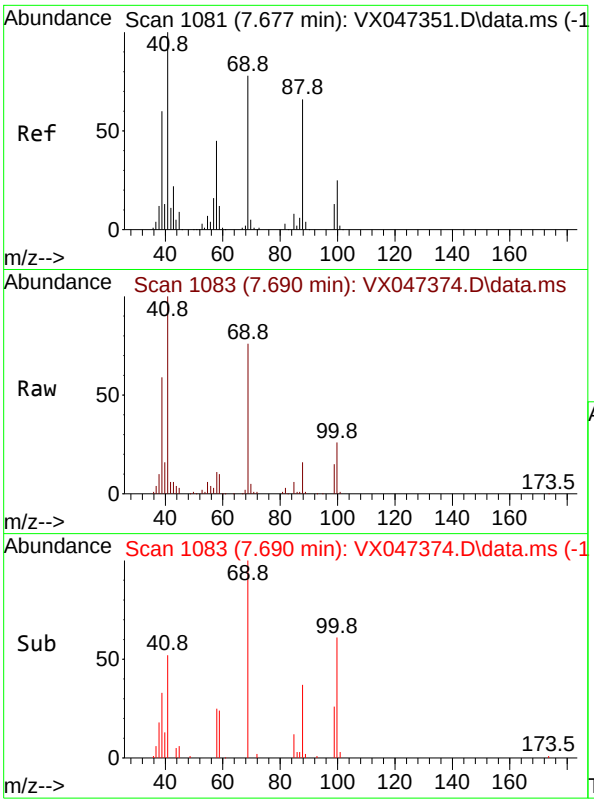


#48
Methyl methacrylate
Concen: 19.343 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 41 Resp: 65407

Ion	Ratio	Lower	Upper
41	100		
69	79.9	65.0	97.4
39	56.3	45.7	68.5





#49
1,4-Dioxane
Concen: 355.080 ug/l
RT: 7.690 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 88 Resp: 1167

Ion	Ratio	Lower	Upper
88	100		
43	40.3	32.4	48.6
58	77.4	56.9	85.3

Instrument :
MSVOA_X
ClientSampleId :
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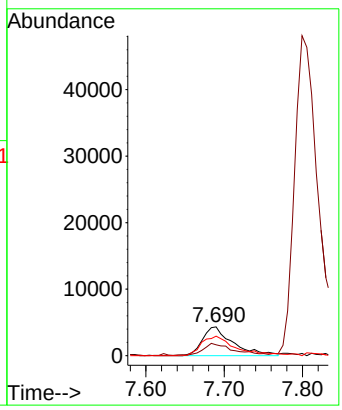
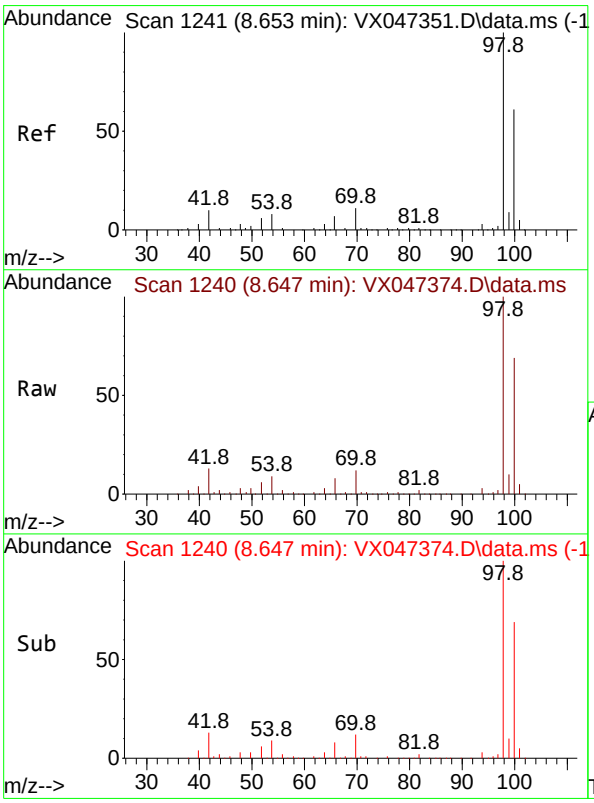
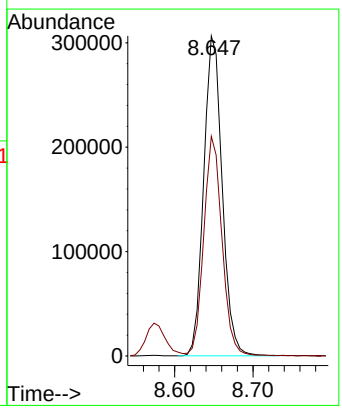


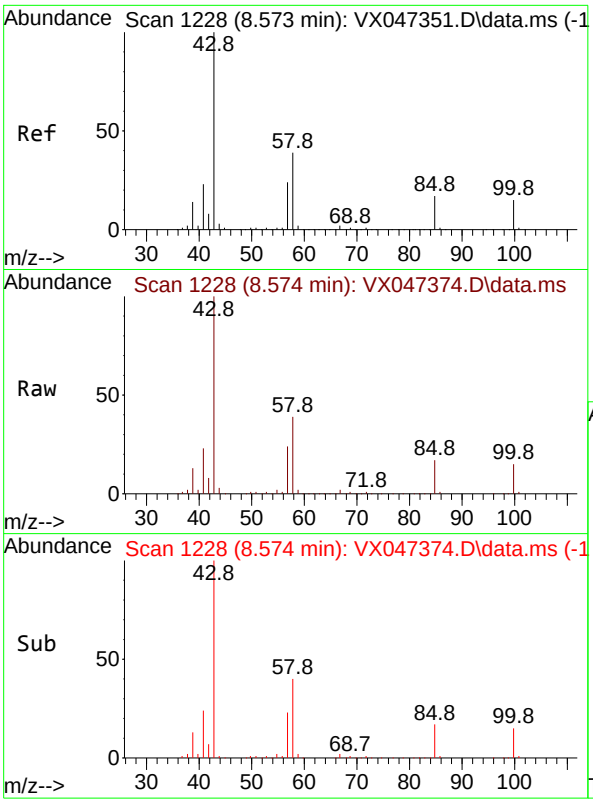


#50
Toluene-d8
Concen: 50.720 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 98 Resp: 501625

Ion	Ratio	Lower	Upper
98	100		
100	67.8	53.9	80.9

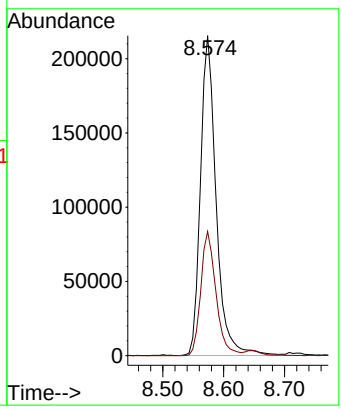




#51
4-Methyl-2-Pentanone
Concen: 102.487 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 43 Resp: 38420

Ion	Ratio	Lower	Upper
43	100		
58	37.7	31.2	46.8



Instrument :
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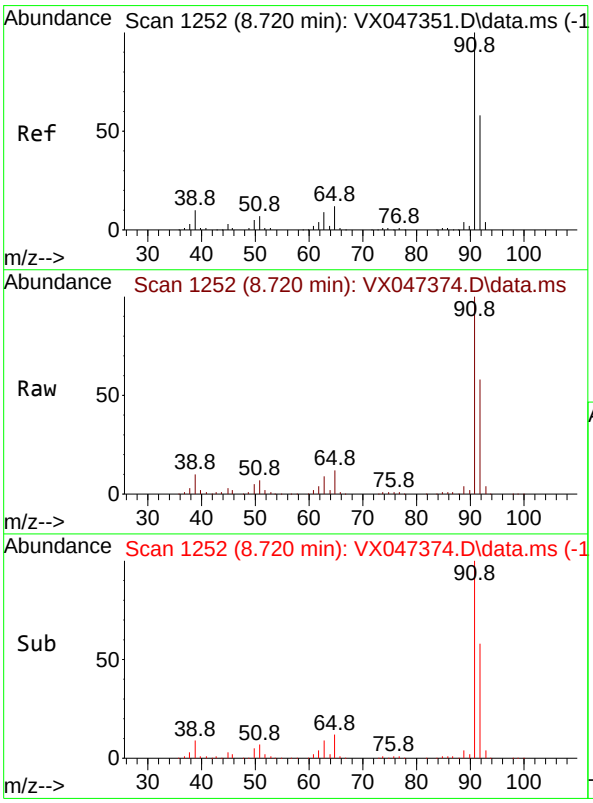
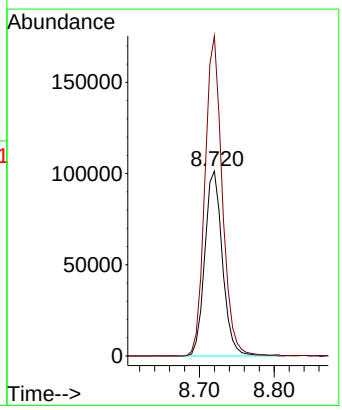
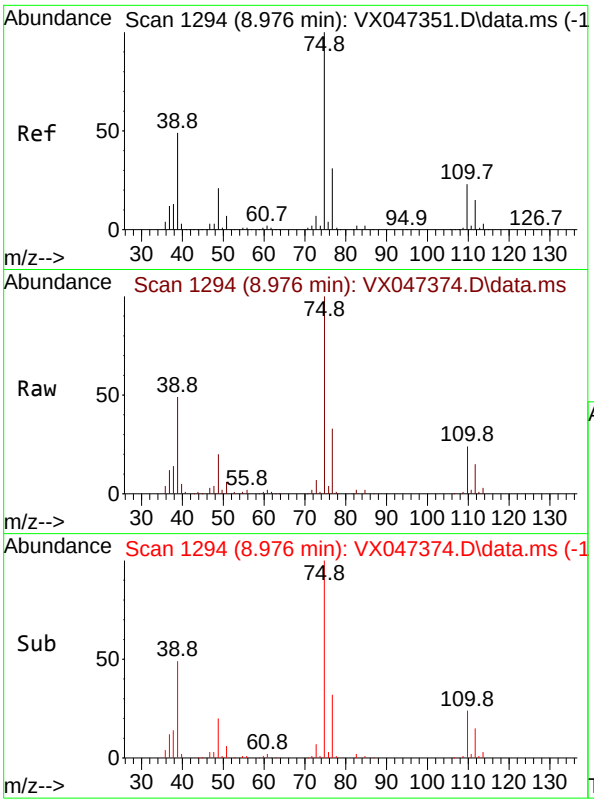


#52
Toluene
Concen: 20.523 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 92 Resp: 165801

Ion	Ratio	Lower	Upper
92	100		
91	170.3	136.3	204.5

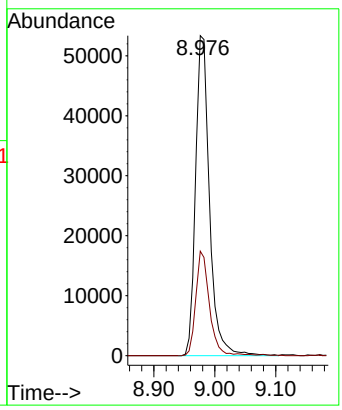




#53
t-1,3-Dichloropropene
Concen: 19.681 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 75 Resp: 8467

Ion	Ratio	Lower	Upper
75	100		
77	32.7	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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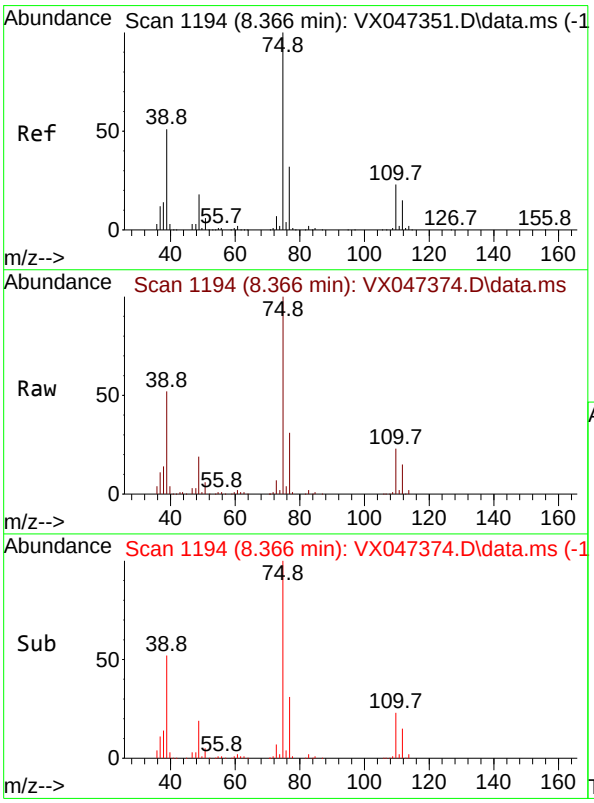
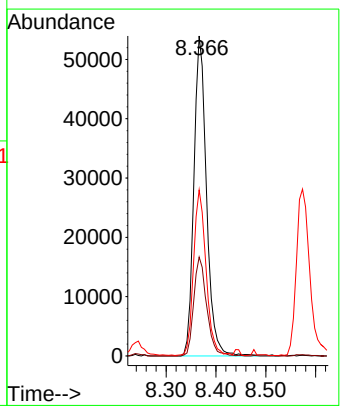
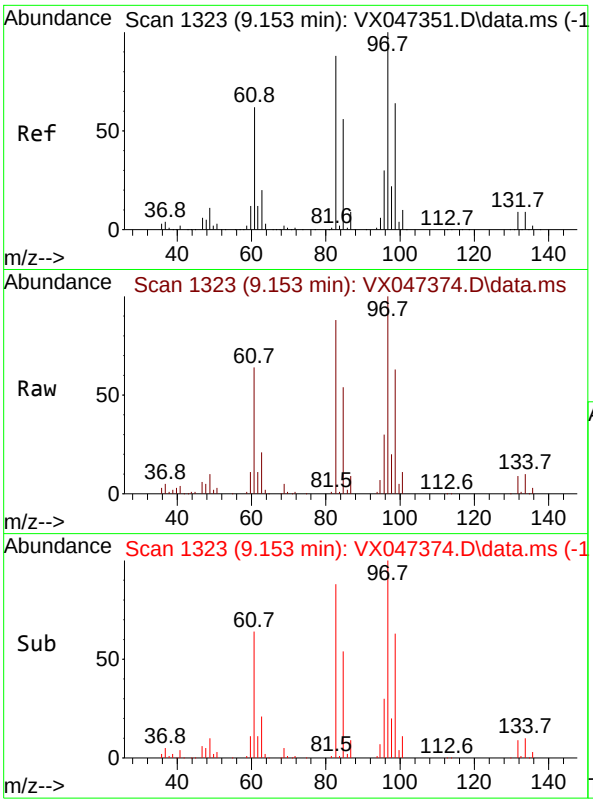


#54
cis-1,3-Dichloropropene
Concen: 19.522 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 75 Resp: 95068

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.6	38.4
39	51.8	40.9	61.3

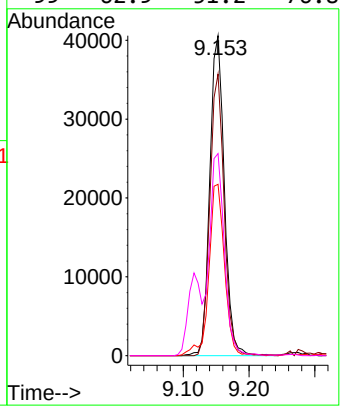




#55
1,1,2-Trichloroethane
Concen: 20.382 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 97 Resp: 6251

Ion	Ratio	Lower	Upper
97	100		
83	88.0	70.6	106.0
85	53.5	44.7	67.1
99	62.9	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
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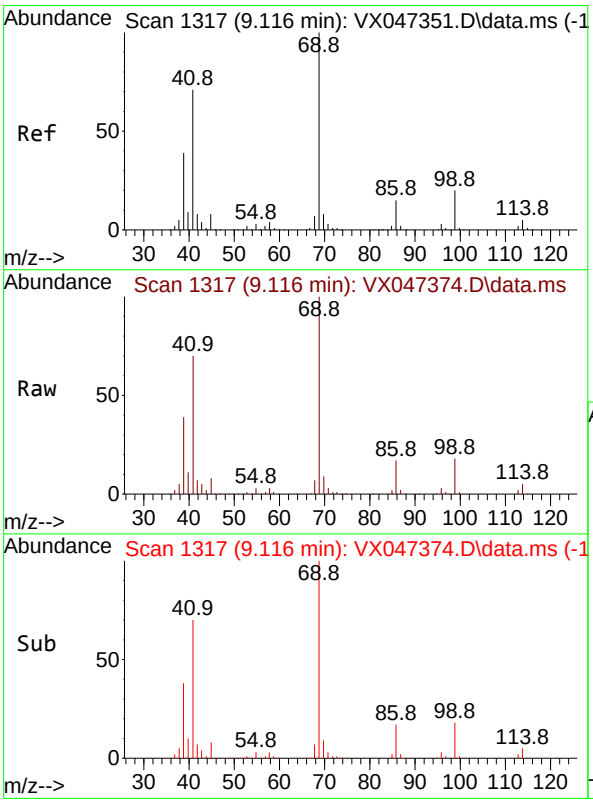
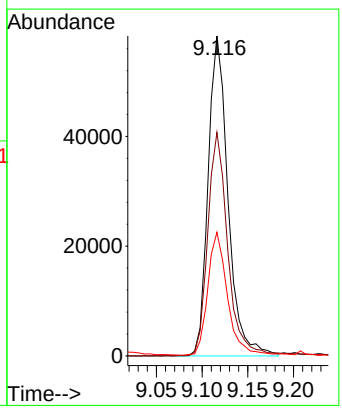
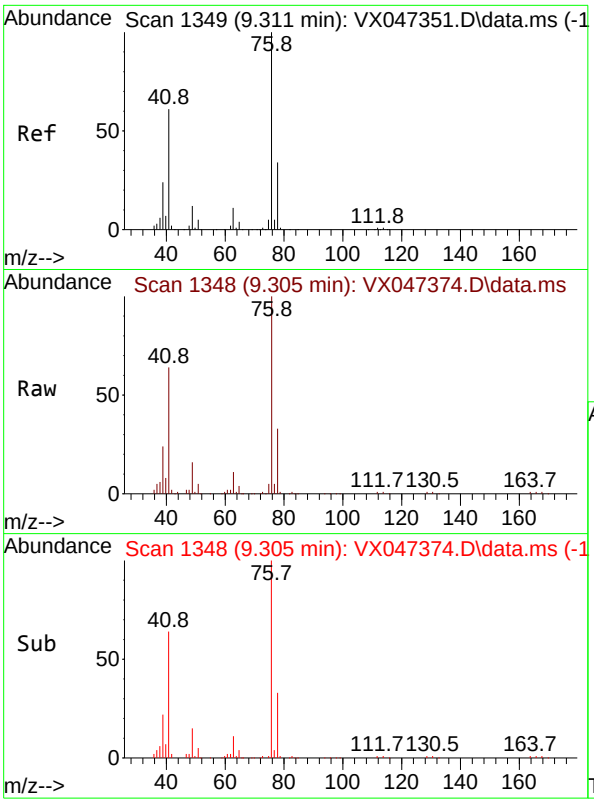


#56
Ethyl methacrylate
Concen: 19.499 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 69 Resp: 88182

Ion	Ratio	Lower	Upper
69	100		
41	71.3	55.3	82.9
39	37.9	30.2	45.2





#57
1,3-Dichloropropane
Concen: 20.234 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 76 Resp: 10576

Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.2	39.2

Instrument :
MSVOA_X
ClientSampleId :
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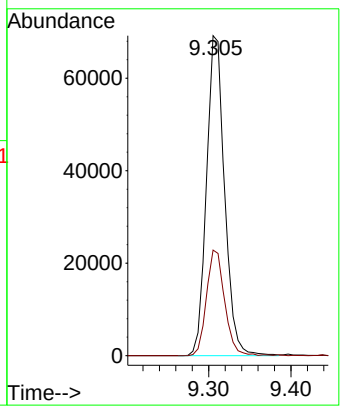
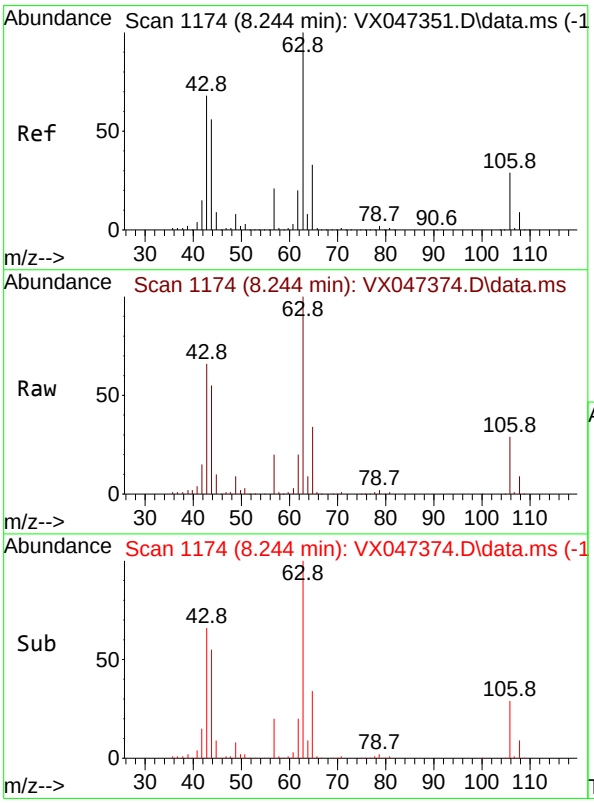
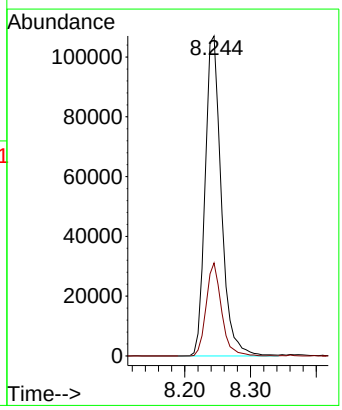


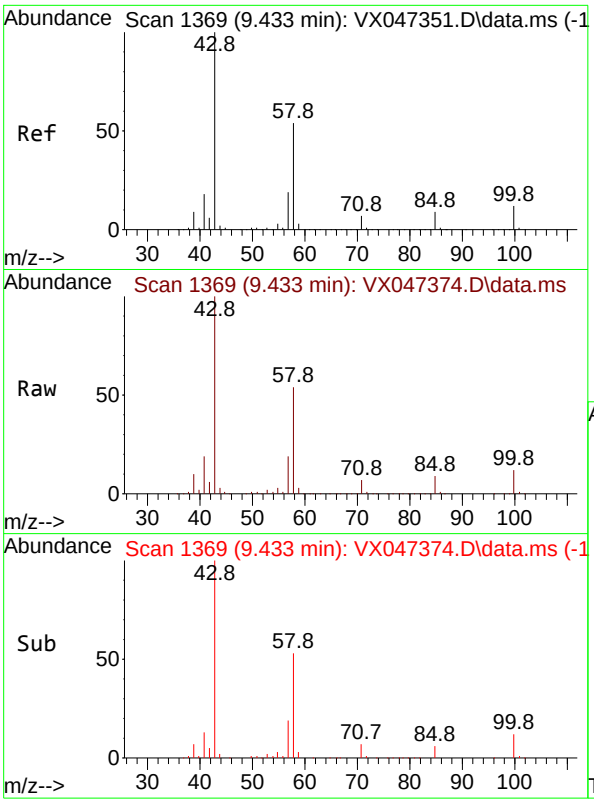


#58
2-Chloroethyl Vinyl ether
Concen: 90.181 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 63 Resp: 182812

Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.8	34.2

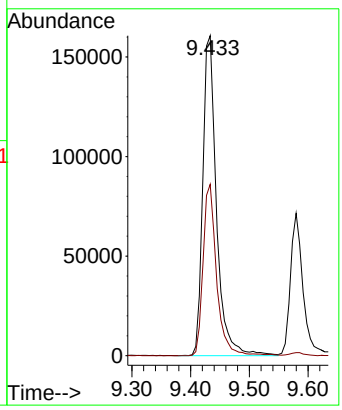




#59
2-Hexanone
Concen: 100.356 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 43 Resp: 26023

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.9	80.7



Instrument :
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ClientSampleId :
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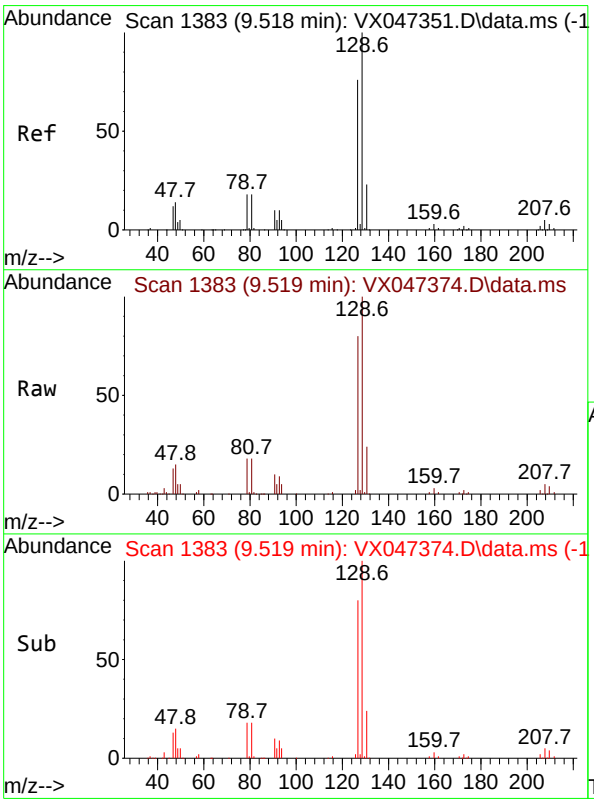
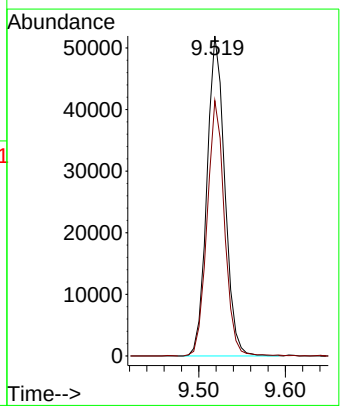
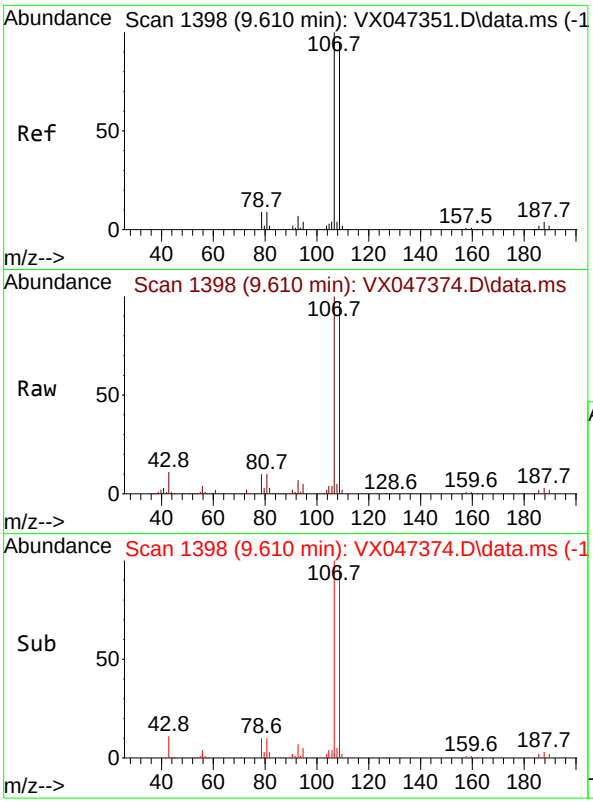


#60
Dibromochloromethane
Concen: 20.386 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:129 Resp: 74313

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.9	116.6

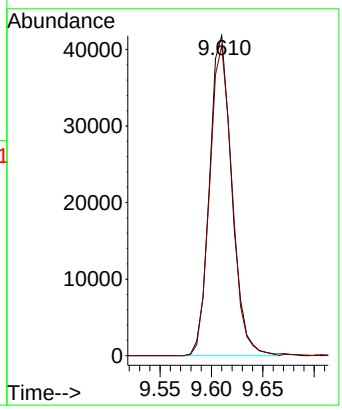




#61
1,2-Dibromoethane
Concen: 19.912 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:107 Resp: 6298

Ion	Ratio	Lower	Upper
107	100		
109	97.9	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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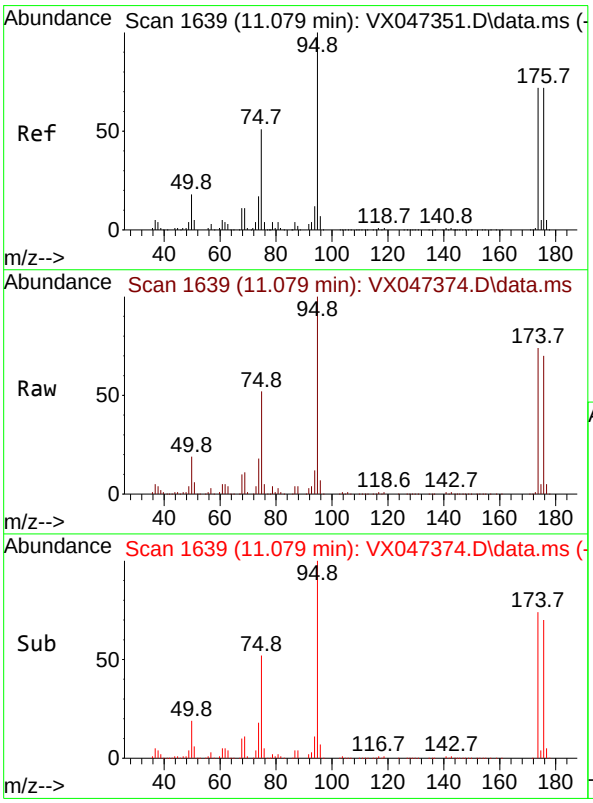
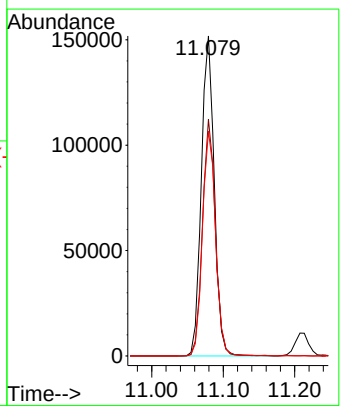
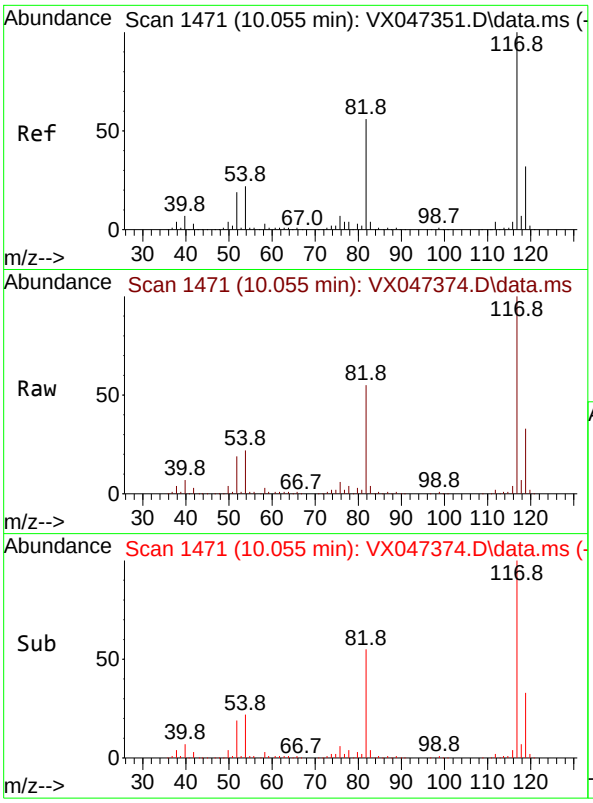


#62
4-Bromofluorobenzene
Concen: 52.129 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 95 Resp: 190251

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	148.0
176	71.6	0.0	145.4

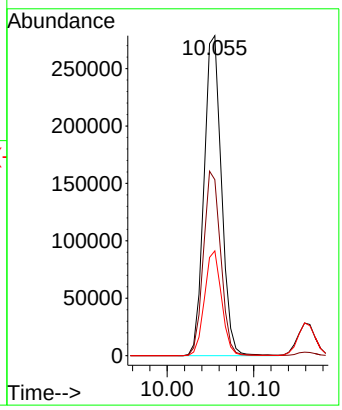




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:117 Resp: 38900

Ion	Ratio	Lower	Upper
117	100		
82	55.0	45.0	67.4
119	32.7	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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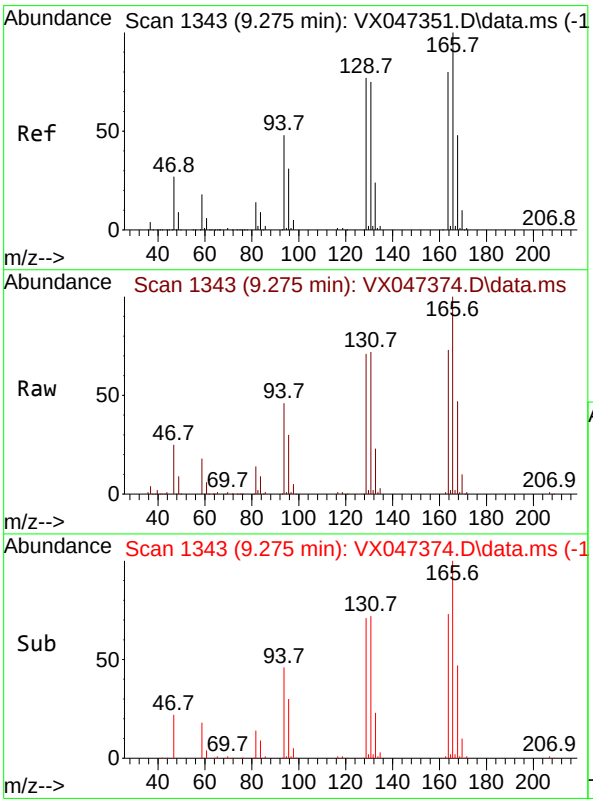
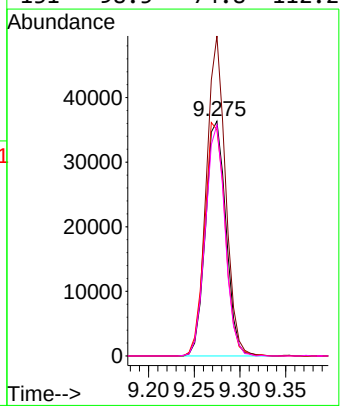
Supervised By :Mahesh Dadoda 08/20/2025

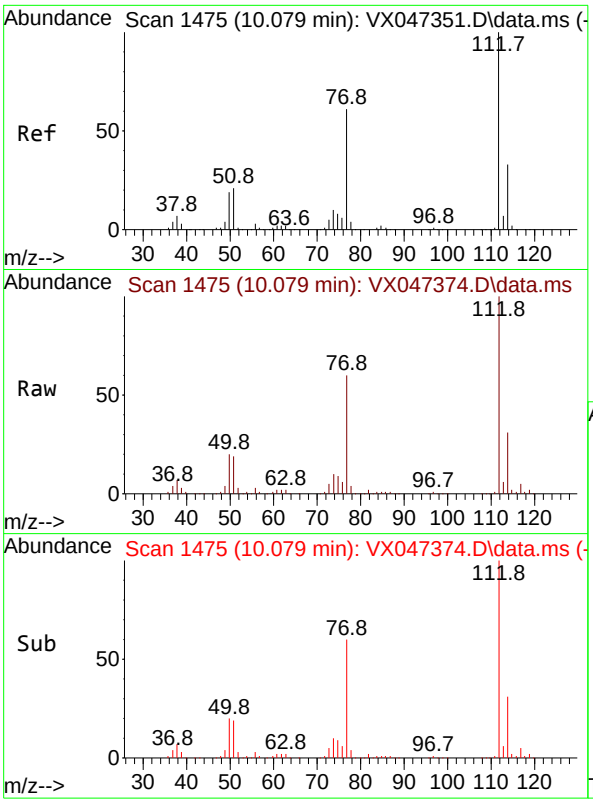


#64
Tetrachloroethene
Concen: 20.046 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:164 Resp: 56403

Ion	Ratio	Lower	Upper
164	100		
166	136.3	100.3	150.5
129	96.4	77.7	116.5
131	98.5	74.8	112.2

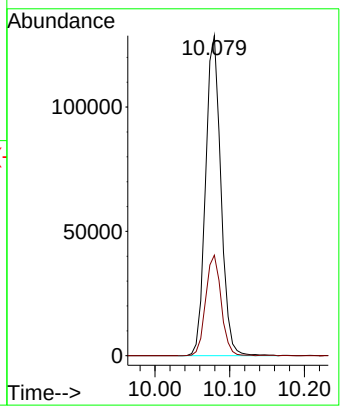




#65
Chlorobenzene
Concen: 19.780 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:112 Resp: 18284

Ion	Ratio	Lower	Upper
112	100		
114	31.4	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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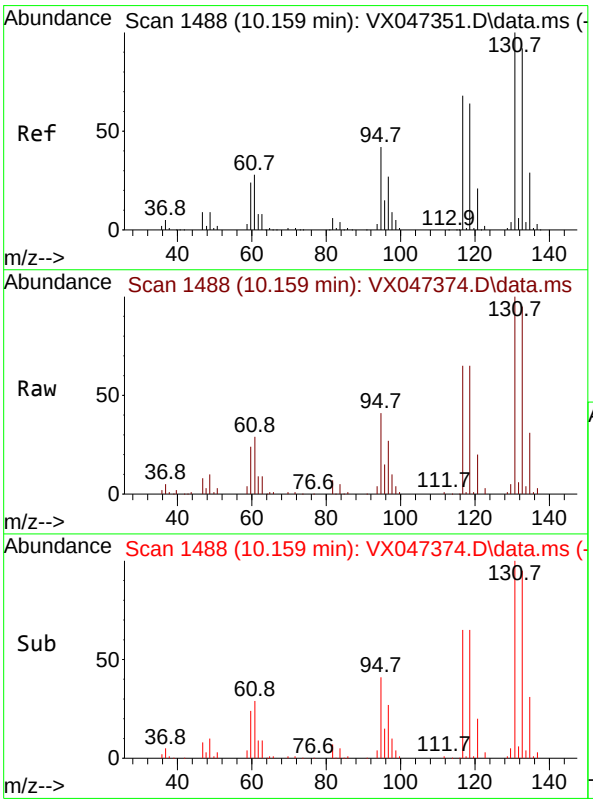
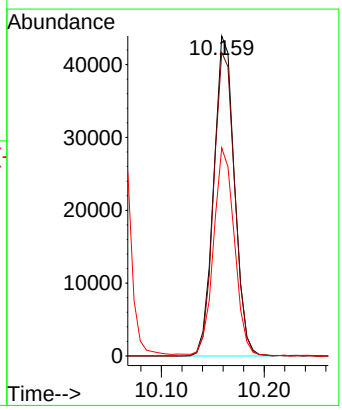
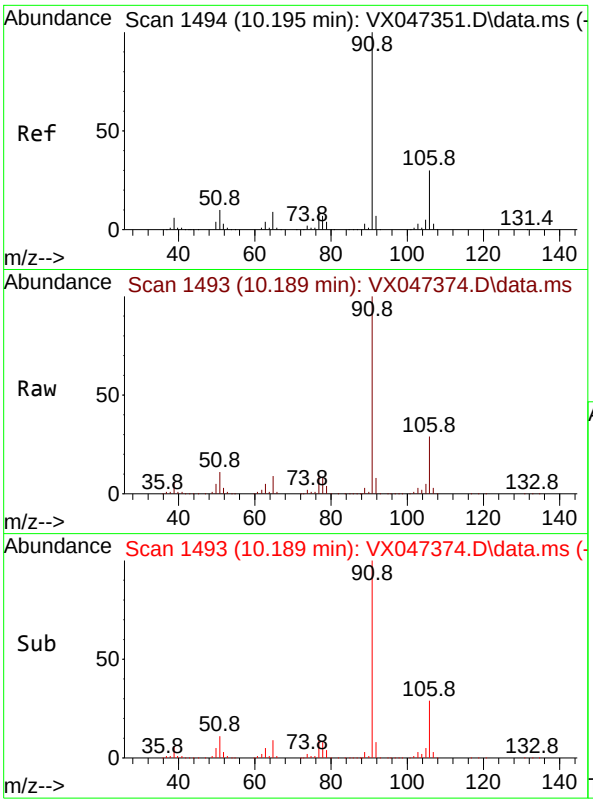


#66
1,1,1,2-Tetrachloroethane
Concen: 19.703 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:131 Resp: 61571

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.6	142.9
119	65.5	32.3	96.8

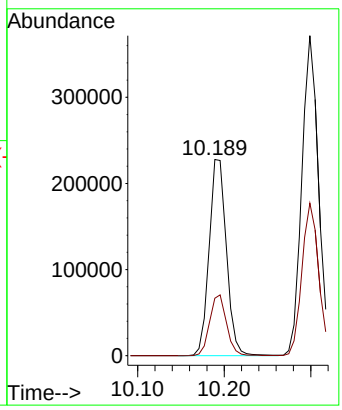




#67
Ethyl Benzene
Concen: 19.925 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 91 Resp: 31701

Ion	Ratio	Lower	Upper
91	100		
106	29.3	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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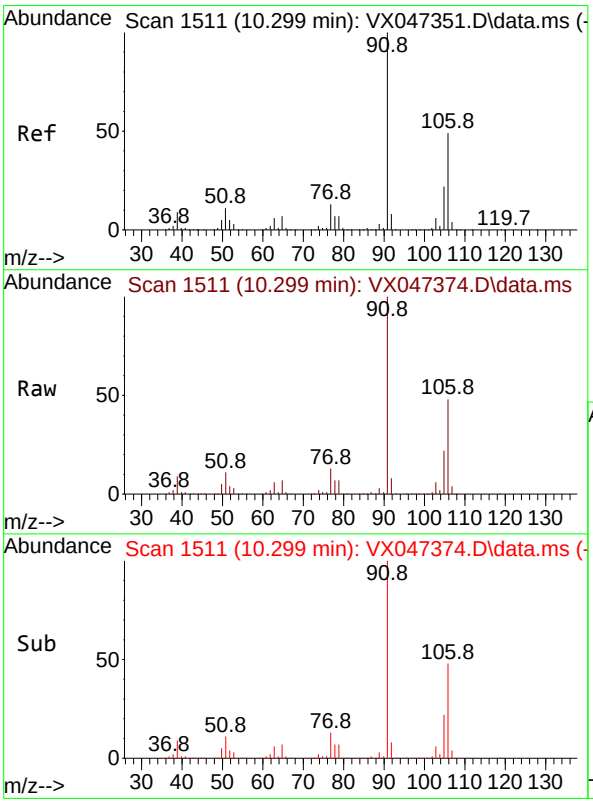
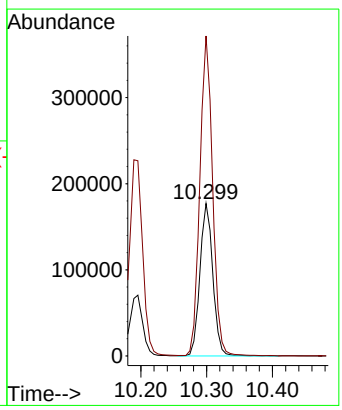
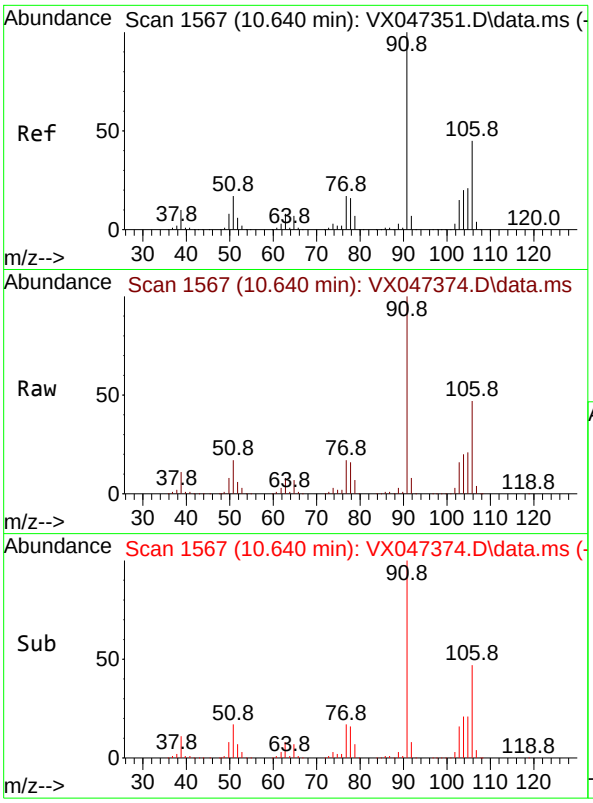


#68
m/p-Xylenes
Concen: 40.673 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:106 Resp: 241301

Ion	Ratio	Lower	Upper
106	100		
91	206.7	164.7	247.1

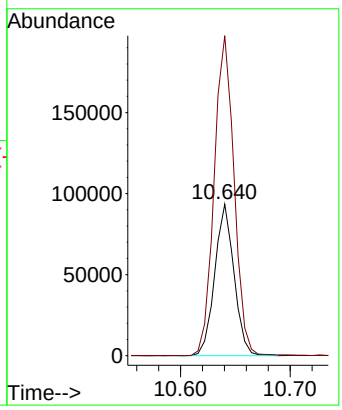




#69
o-Xylene
Concen: 20.042 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:106 Resp: 11442

Ion	Ratio	Lower	Upper
106	100		
91	219.2	110.6	331.8



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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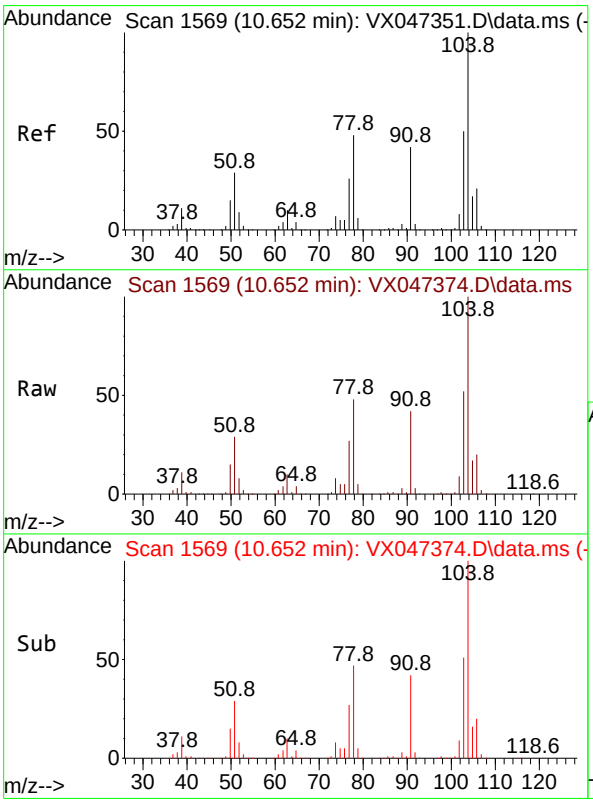
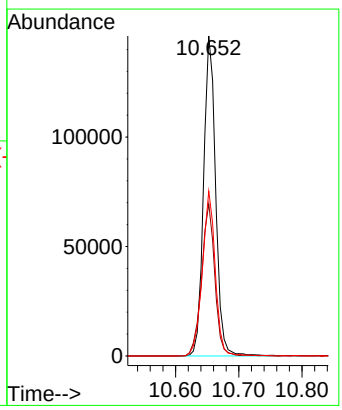
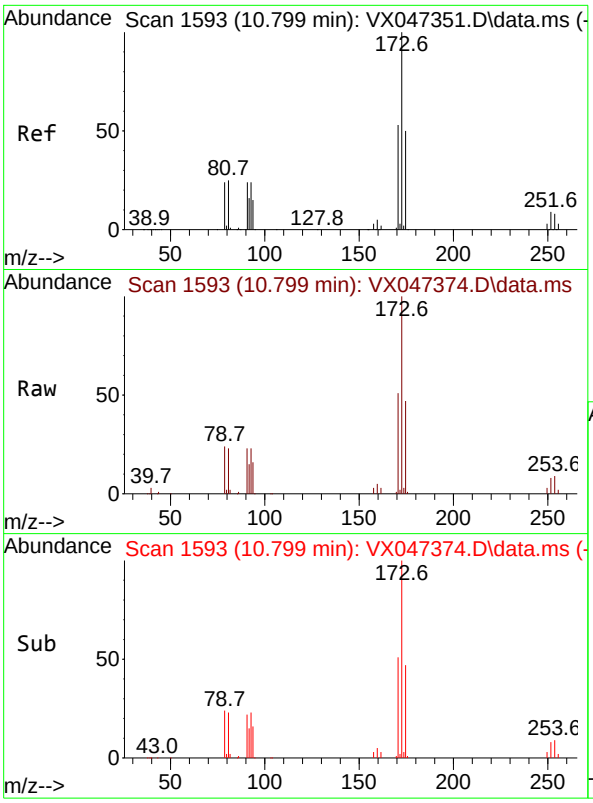


#70
Styrene
Concen: 20.197 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:104 Resp: 194838

Ion	Ratio	Lower	Upper
104	100		
78	51.9	41.8	62.8
103	55.0	43.6	65.4

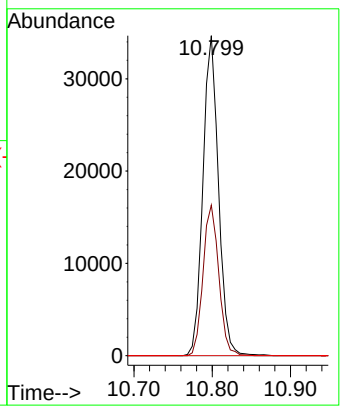




#71
Bromoform
Concen: 20.353 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:173 Resp: 4778

Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.4	73.4
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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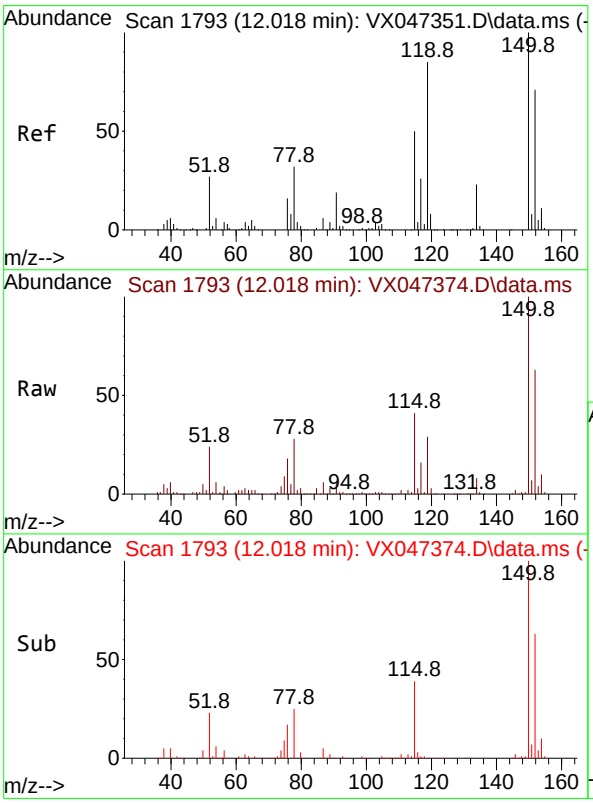
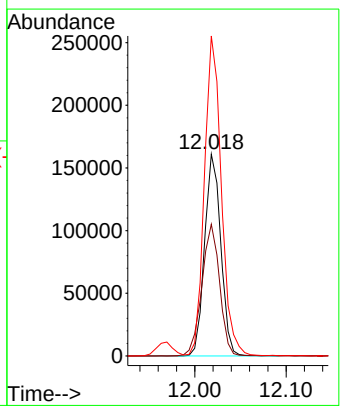
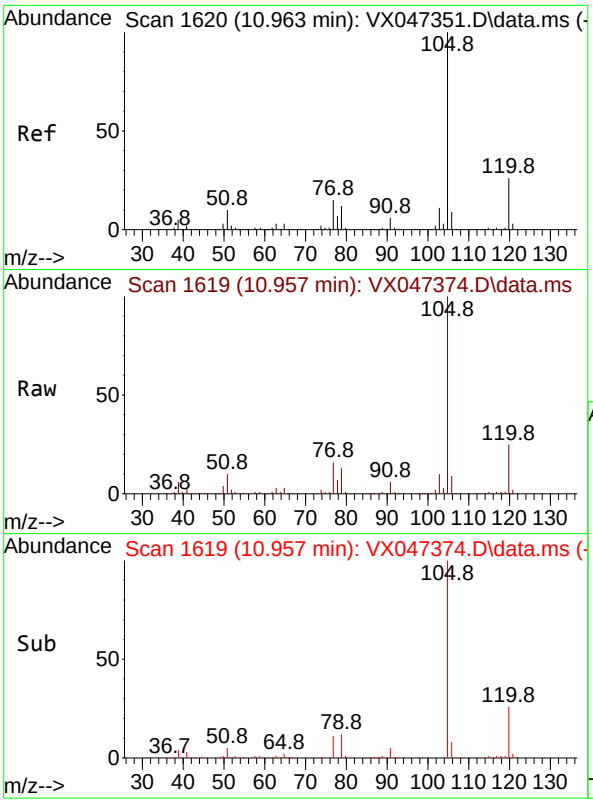


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:152 Resp: 197596

Ion	Ratio	Lower	Upper
152	100		
115	71.6	44.6	133.8
150	165.3	0.0	349.8

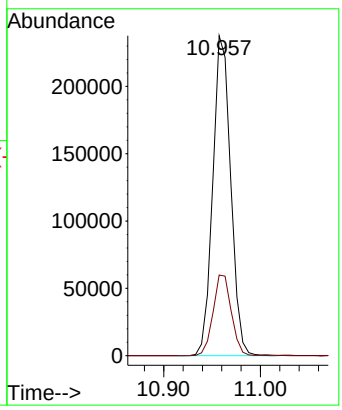




#73
Isopropylbenzene
Concen: 19.762 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:105 Resp: 30558

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Manual Integrations
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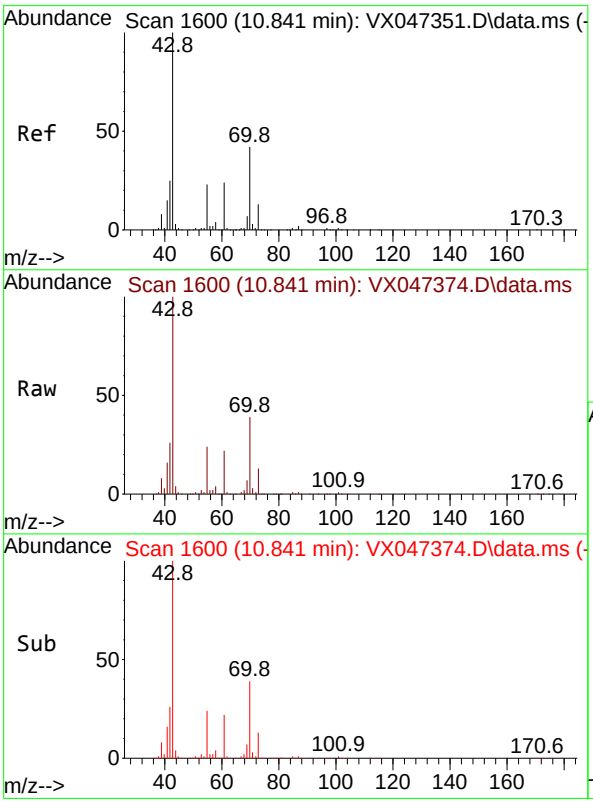
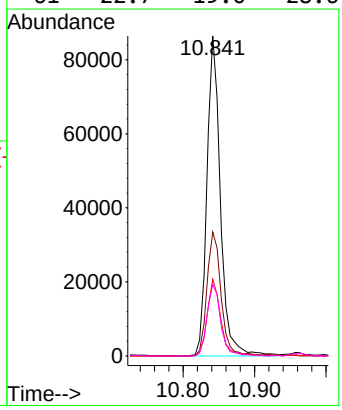
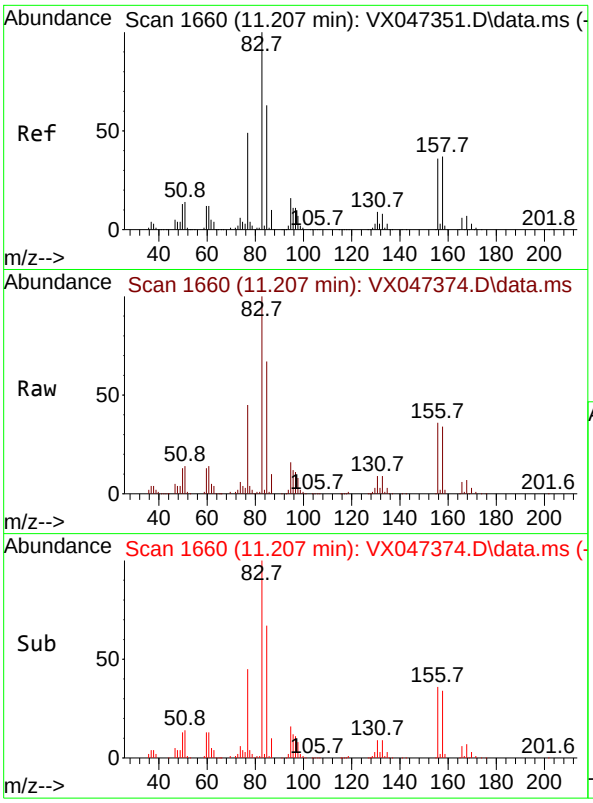


#74
N-amyl acetate
Concen: 19.269 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 43 Resp: 113146

Ion	Ratio	Lower	Upper
43	100		
70	40.6	33.1	49.7
55	24.0	19.0	28.6
61	22.7	19.0	28.6

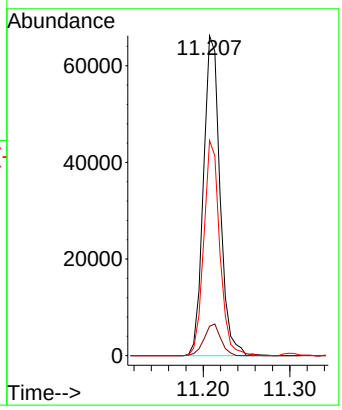




#75
1,1,2,2-Tetrachloroethane
Concen: 19.357 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 83 Resp: 8788

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	15.0
85	64.9	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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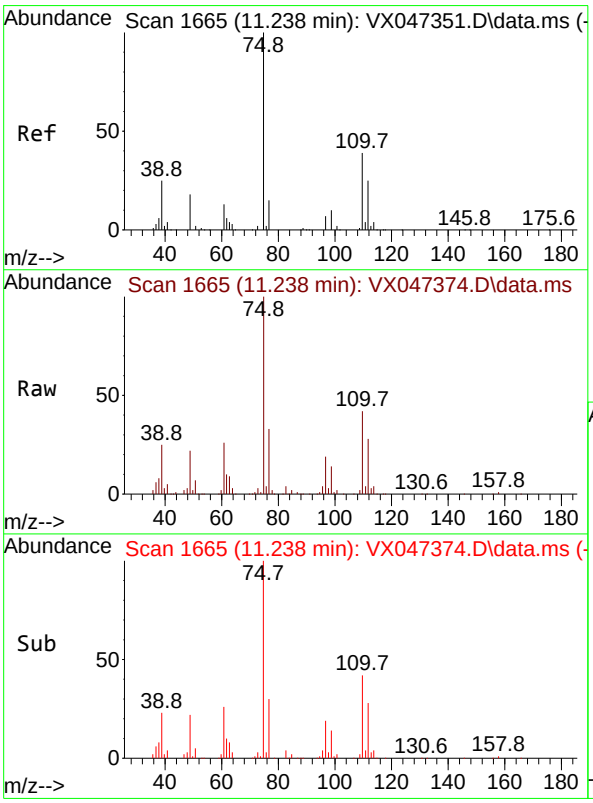
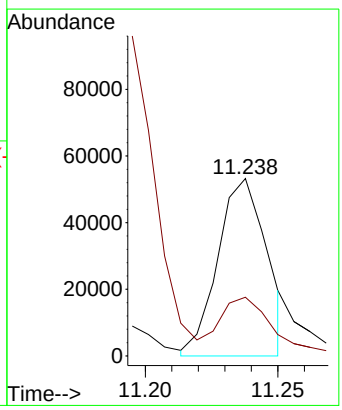
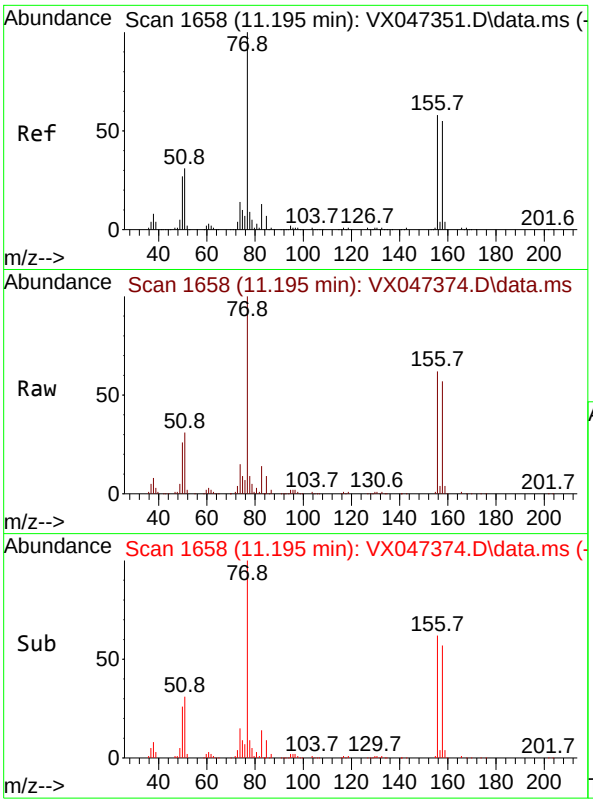


#76
1,2,3-Trichloropropane
Concen: 18.855 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 75 Resp: 68334

Ion	Ratio	Lower	Upper
75	100		
77	37.3	19.4	58.2

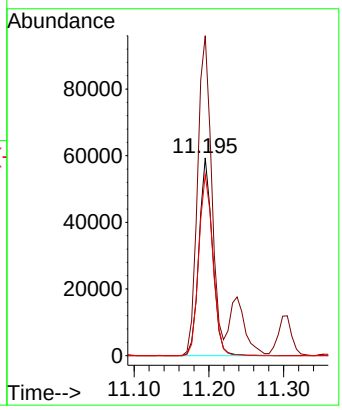




#77
Bromobenzene
Concen: 19.702 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:156 Resp: 7439

Ion	Ratio	Lower	Upper
156	100		
77	168.5	86.3	258.9
158	95.5	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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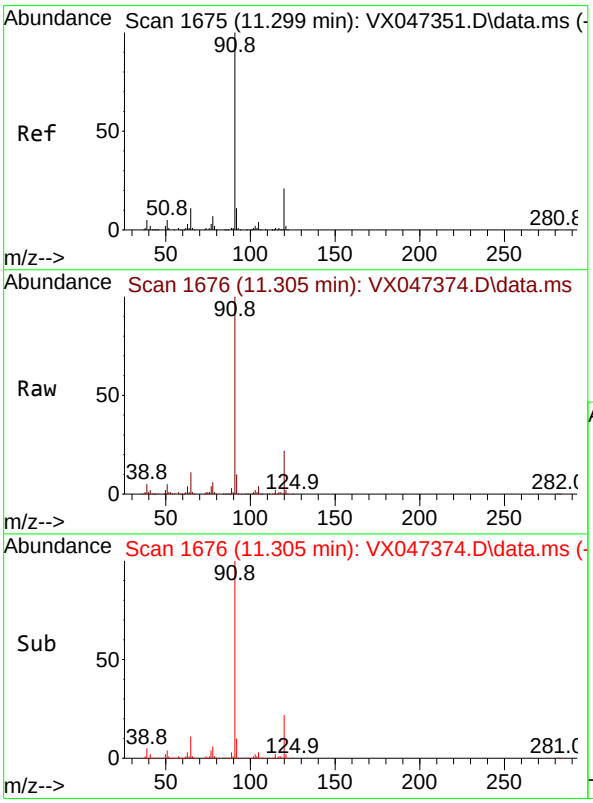
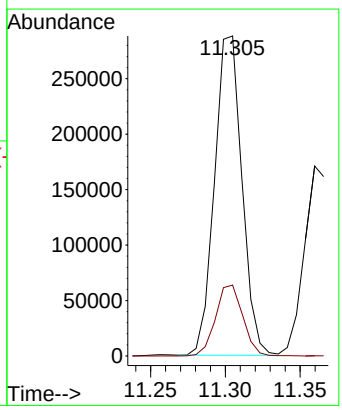
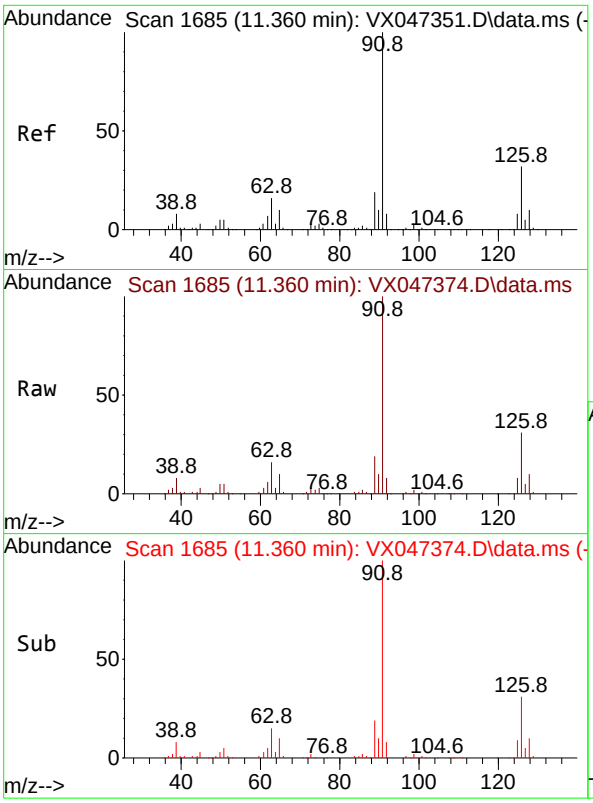


#78
n-propylbenzene
Concen: 19.888 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 91 Resp: 367285

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.0	33.0

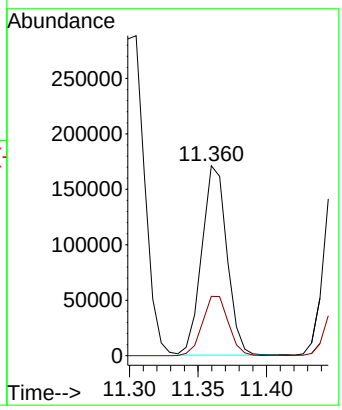




#79
2-Chlorotoluene
Concen: 19.548 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 91 Resp: 21823

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.7	50.1



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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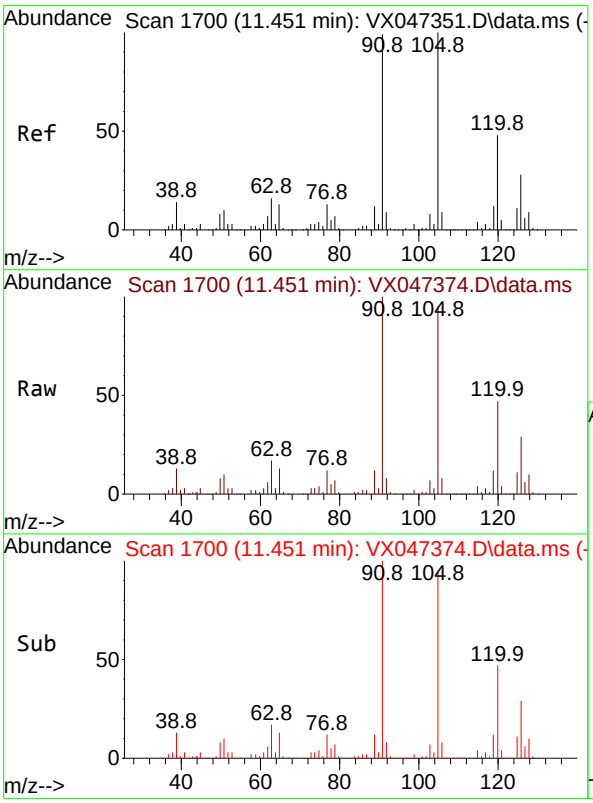
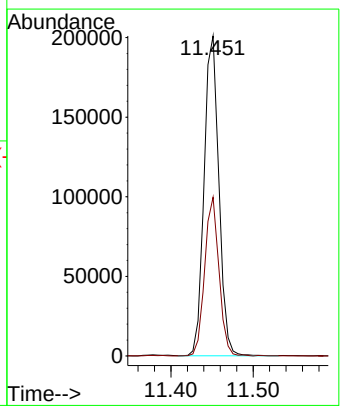
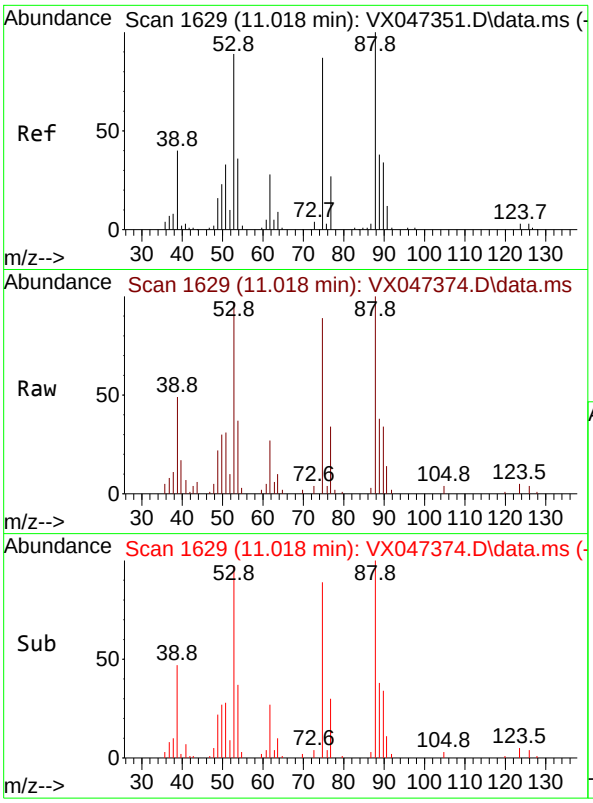


#80
1,3,5-Trimethylbenzene
Concen: 19.707 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:105 Resp: 250724

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.9	71.7

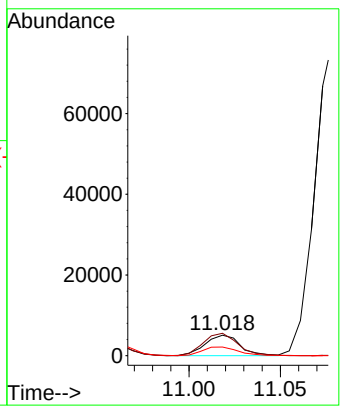




#81
trans-1,4-Dichloro-2-butene
Concen: 14.737 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 75 Resp: 679

Ion	Ratio	Lower	Upper
75	100		
53	107.7	85.2	127.8
89	44.1	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Manual Integrations
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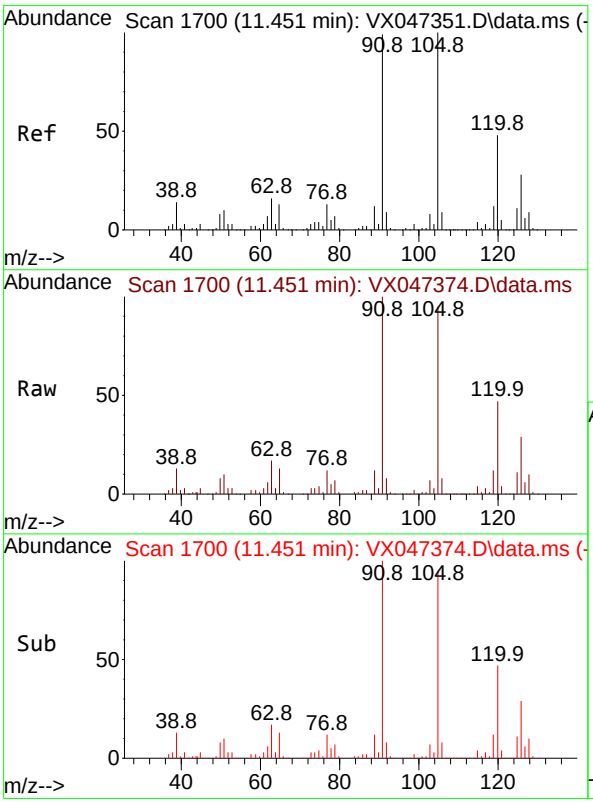
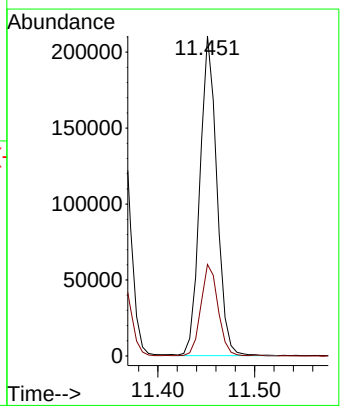
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

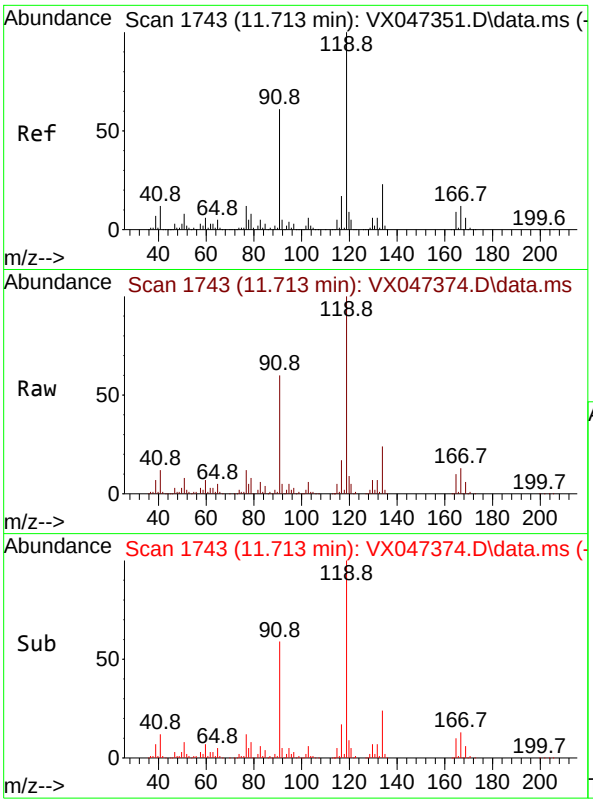


#82
4-Chlorotoluene
Concen: 19.496 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 91 Resp: 256557

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.4	43.0

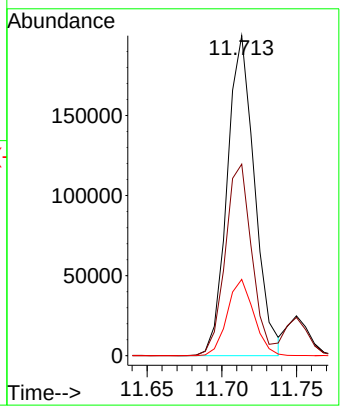




#83
tert-Butylbenzene
Concen: 20.048 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:119 Resp: 25446

Ion	Ratio	Lower	Upper
119	100		
91	57.9	29.1	87.4
134	23.1	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Manual Integrations
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Reviewed By :John Carlone 08/19/2025
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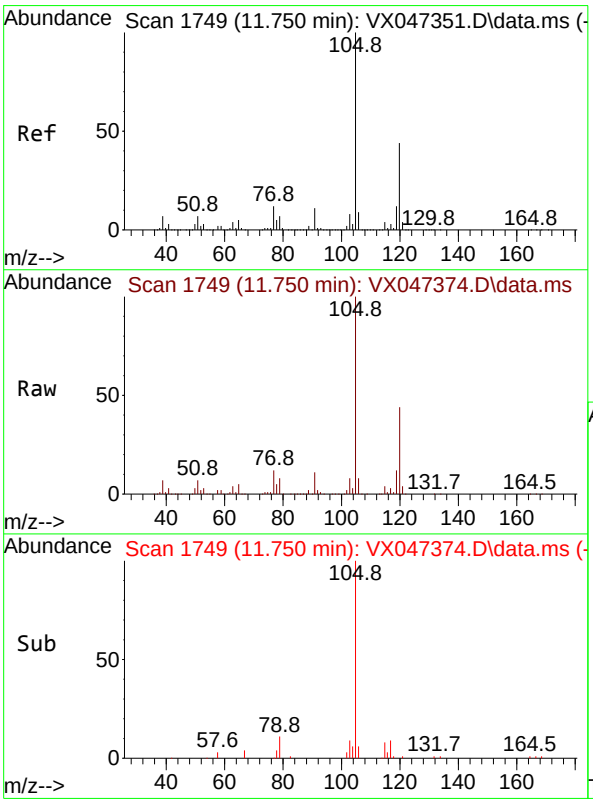
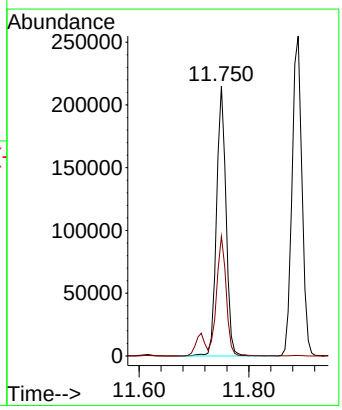
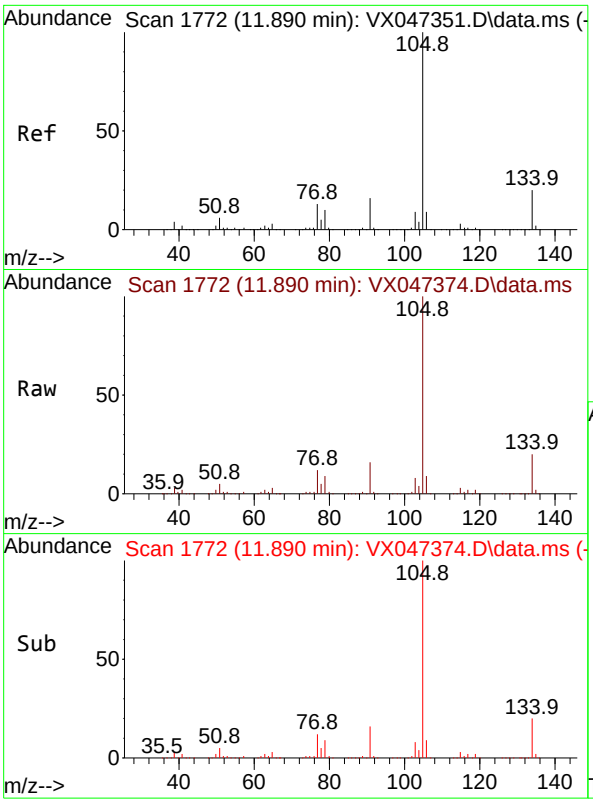


#84
1,2,4-Trimethylbenzene
Concen: 20.190 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:105 Resp: 256880

Ion	Ratio	Lower	Upper
105	100		
120	44.8	21.9	65.7

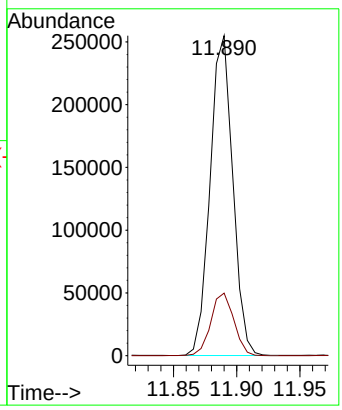




#85
sec-Butylbenzene
Concen: 20.203 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:105 Resp: 31785

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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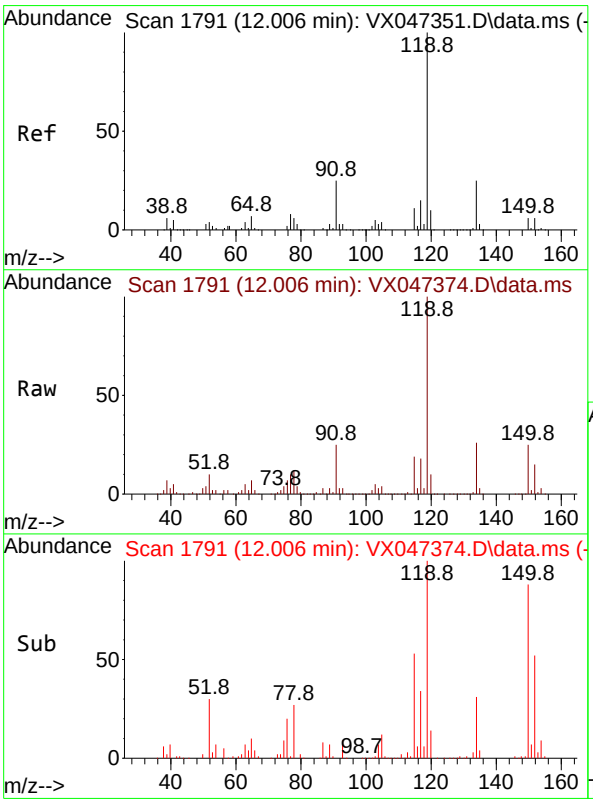
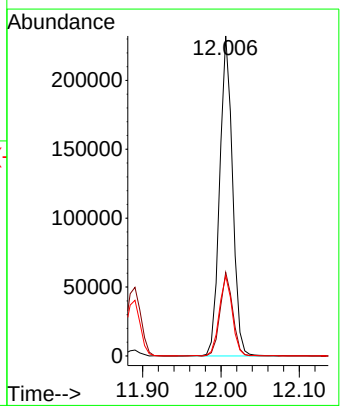
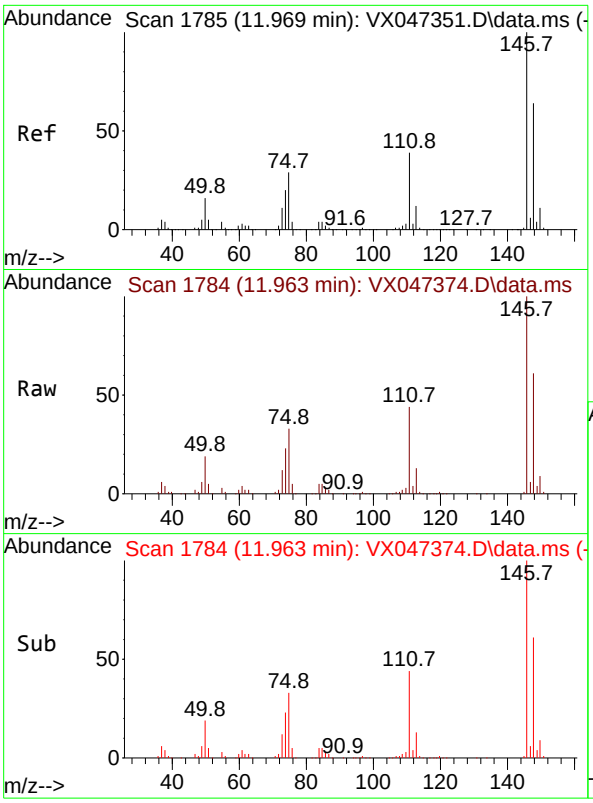


#86
p-Isopropyltoluene
Concen: 19.987 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:119 Resp: 266082

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.4
91	25.4	12.4	37.4

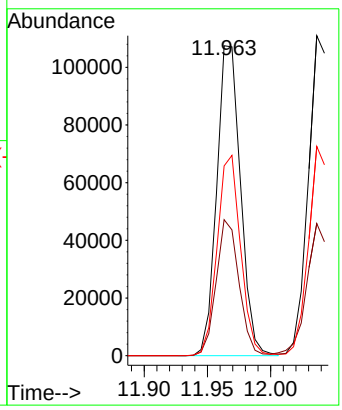




#87
1,3-Dichlorobenzene
Concen: 19.511 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:146 Resp: 14074

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.6	61.8
148	63.4	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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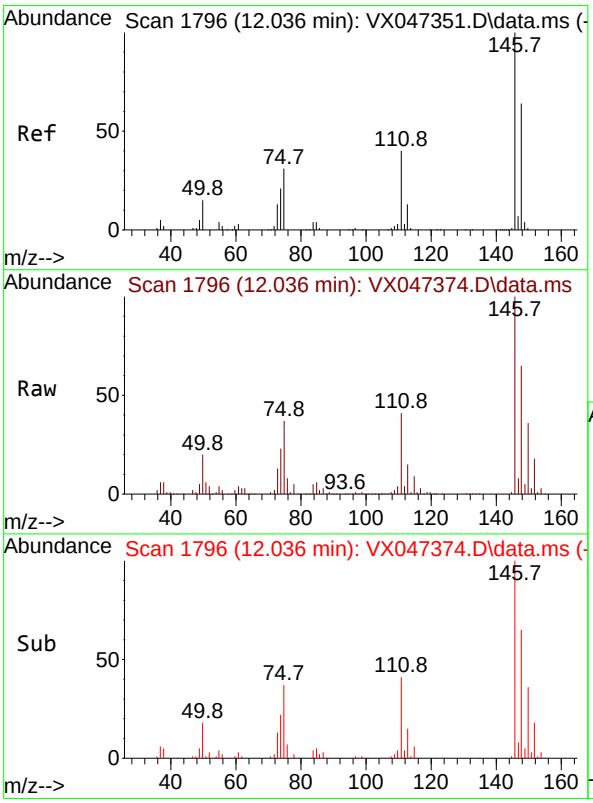
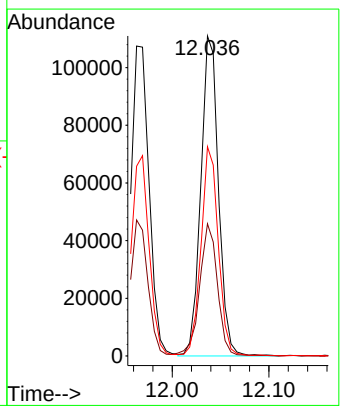
Supervised By :Mahesh Dadoda 08/20/2025

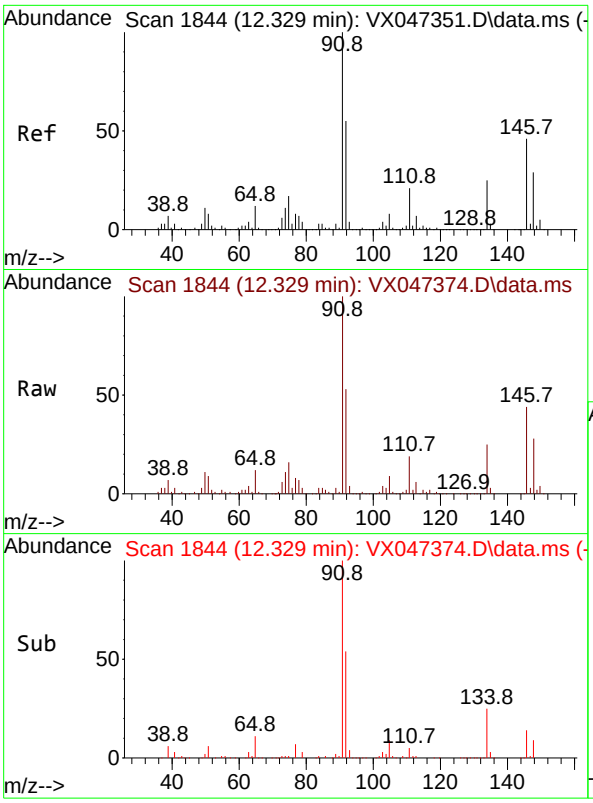


#88
1,4-Dichlorobenzene
Concen: 19.010 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:146 Resp: 141033

Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.4	61.2
148	63.5	31.7	95.1

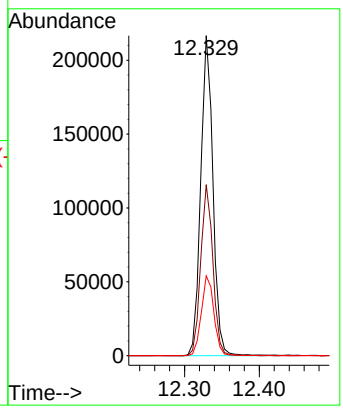




#89
n-Butylbenzene
Concen: 19.856 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 91 Resp: 24586

Ion	Ratio	Lower	Upper
91	100		
92	53.2	27.2	81.5
134	25.7	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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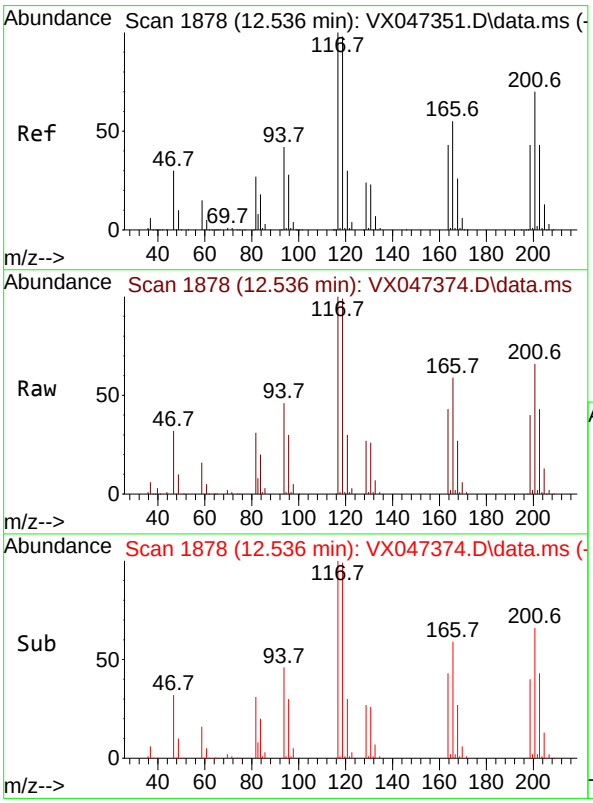
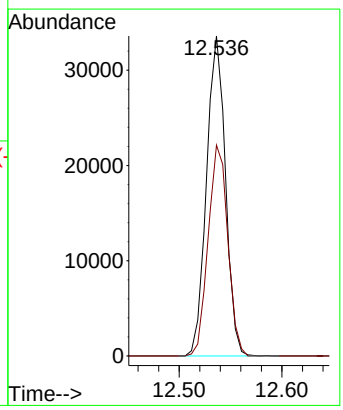
Supervised By :Mahesh Dadoda 08/20/2025

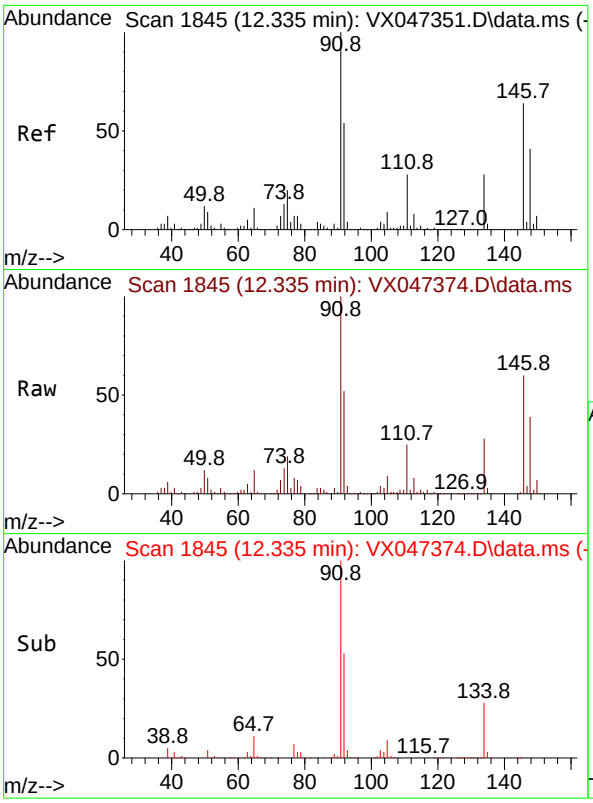


#90
Hexachloroethane
Concen: 18.488 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:117 Resp: 43179

Ion	Ratio	Lower	Upper
117	100		
201	68.1	35.1	105.3

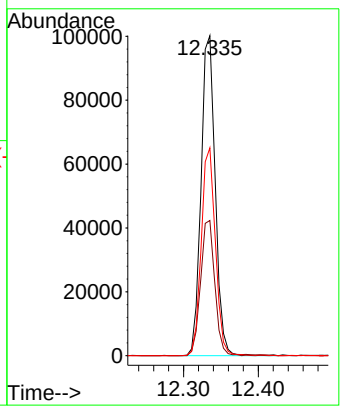




#91
1,2-Dichlorobenzene
Concen: 19.282 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:146 Resp: 13201

Ion	Ratio	Lower	Upper
146	100		
111	42.4	22.1	66.1
148	64.9	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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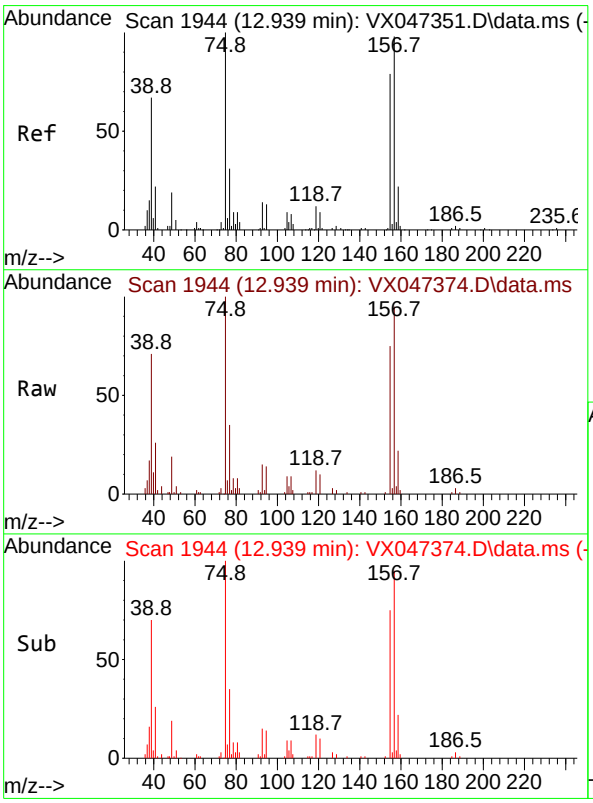
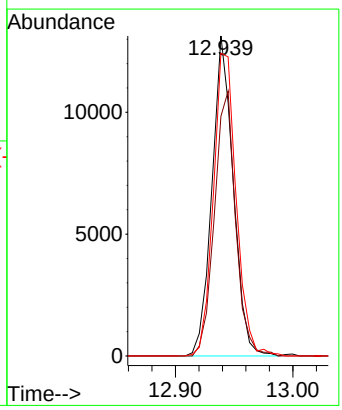
Supervised By :Mahesh Dadoda 08/20/2025

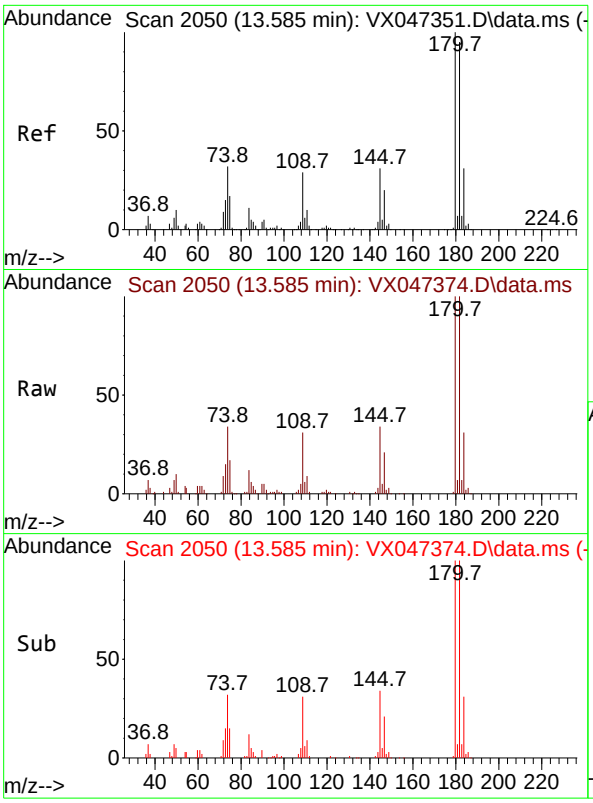


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.808 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 75 Resp: 16513

Ion	Ratio	Lower	Upper
75	100		
155	82.7	41.3	123.7
157	101.8	51.5	154.5

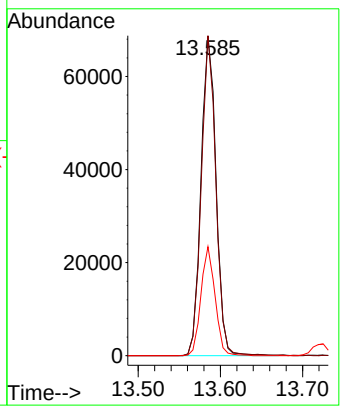




#93
1,2,4-Trichlorobenzene
Concen: 18.974 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:180 Resp: 8708

Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.1	144.4
145	32.0	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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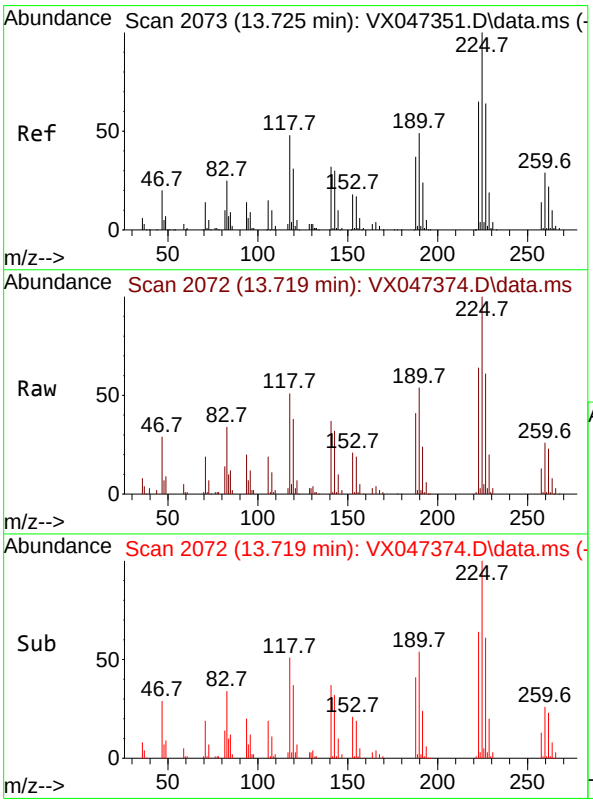
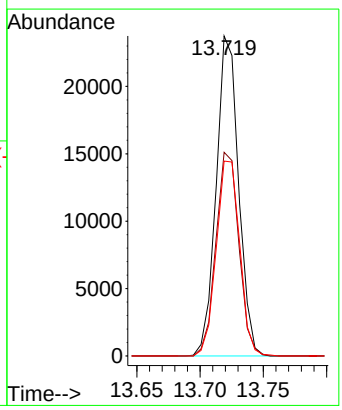
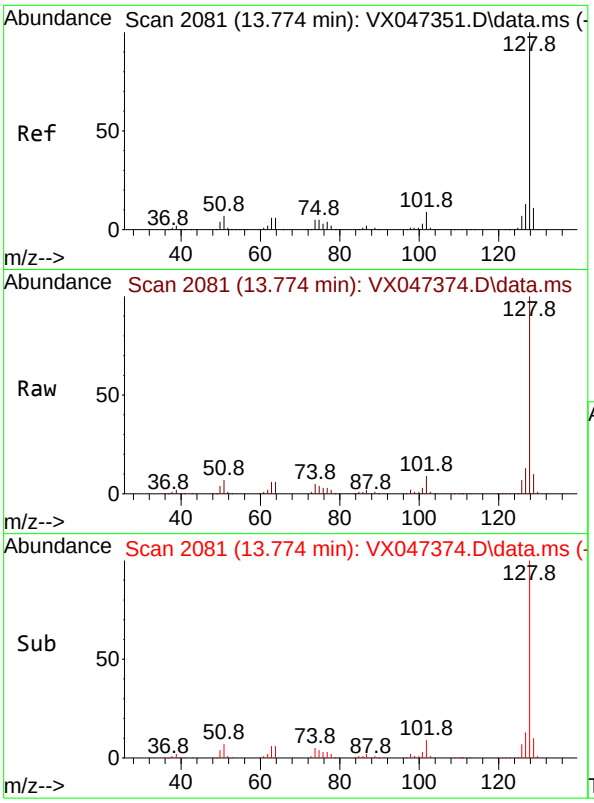


#94
Hexachlorobutadiene
Concen: 17.856 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:225 Resp: 29173

Ion	Ratio	Lower	Upper
225	100		
223	65.1	32.2	96.6
227	63.8	31.6	95.0

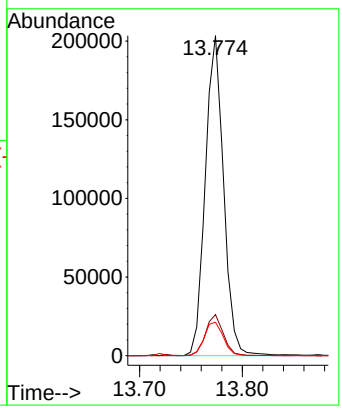




#95
Naphthalene
Concen: 19.219 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:128 Resp: 25209

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.1	15.1
129	11.0	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

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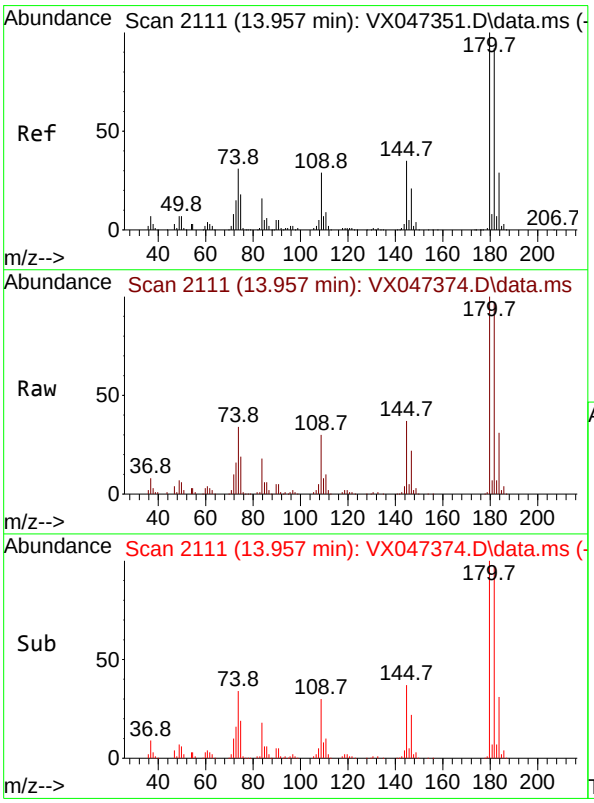
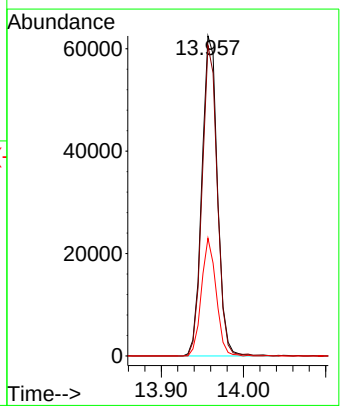


#96
1,2,3-Trichlorobenzene
Concen: 18.987 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:180 Resp: 82149

Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.0	144.2
145	34.7	17.4	52.2



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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0819WBS01	SDG No.:	Q2815
Lab Sample ID:	VX0819WBS01	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
VX047403.D	1	08/19/25 11:55	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	16.6		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	17.2		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	16.6		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	18.2		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	17.5		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	16.4		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	16.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.3		0.23	0.75	1.00	ug/L
67-64-1	Acetone	110		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	16.4		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.2		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	19.3		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	19.0		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.7		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.6		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	110		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	16.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.5		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	22.9		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	18.9		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.9		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	15.2		0.16	0.50	1.00	ug/L
71-43-2	Benzene	18.0		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.7		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	17.2		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.3		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	18.3		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	95.7		0.68	2.50	5.00	ug/L
108-88-3	Toluene	18.1		0.14	0.50	1.00	ug/L

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0819WBS01	SDG No.:	Q2815
Lab Sample ID:	VX0819WBS01	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
VX047403.D	1	08/19/25 11:55	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.7		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.6		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	97.3		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	18.8		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.7		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	16.7		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	17.6		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	17.1		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	35.1		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	17.6		0.12	0.50	1.00	ug/L
100-42-5	Styrene	18.3		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	17.9		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	16.6		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.0		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.2		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	16.8		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.6		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	54.3		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.8		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	226000	5.556				
540-36-3	1,4-Difluorobenzene	401000	6.763				
3114-55-4	Chlorobenzene-d5	371000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	190000	12.018				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0819WBS01	SDG No.:	Q2815
Lab Sample ID:	VX0819WBS01	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
VX047403.D	1	08/19/25 11:55	VX081925

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\VX081925\
Data File : VX047403.D
Acq On : 19 Aug 2025 11:55
Operator : JC/MD
Sample : VX0819WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 12:13:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.556	168	225610	50.000 ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	400778	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.049	117	370967	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	189862	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.958	65	171357	54.270 ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.540%		
35) Dibromofluoromethane	5.391	113	135576	52.123 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.240%		
50) Toluene-d8	8.647	98	470012	50.555 ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.120%		
62) 4-Bromofluorobenzene	11.079	95	181013	52.762 ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.520%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.185	85	47669	16.575 ug/l	100
3) Chloromethane	1.313	50	44596	17.237 ug/l	98
4) Vinyl Chloride	1.392	62	53957	16.616 ug/l	98
5) Bromomethane	1.630	94	23833	18.170 ug/l	82
6) Chloroethane	1.709	64	34734	17.482 ug/l	98
7) Trichlorofluoromethane	1.904	101	78843	16.414 ug/l	94
8) Diethyl Ether	2.142	74	31787	18.794 ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.343	101	46101	16.545 ug/l	99
10) Methyl Iodide	2.471	142	67548	14.146 ug/l	98
11) Tert butyl alcohol	2.959	59	27543	100.272 ug/l	99
12) 1,1-Dichloroethene	2.337	96	49153	17.304 ug/l	97
13) Acrolein	2.252	56	49678	85.675 ug/l	98
14) Allyl chloride	2.678	41	88890	18.017 ug/l	98
15) Acrylonitrile	3.081	53	129576	97.623 ug/l	99
16) Acetone	2.386	43	134660	113.461 ug/l	99
17) Carbon Disulfide	2.526	76	140642	16.407 ug/l	100
18) Methyl Acetate	2.715	43	59381	19.307 ug/l	99
19) Methyl tert-butyl Ether	3.123	73	165987	19.208 ug/l	99
20) Methylene Chloride	2.800	84	59628	18.973 ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	53480	17.738 ug/l	95
22) Diisopropyl ether	3.770	45	188286	19.306 ug/l	94
23) Vinyl Acetate	3.733	43	775713	97.042 ug/l	98
24) 1,1-Dichloroethane	3.623	63	102305	18.559 ug/l	97
25) 2-Butanone	4.562	43	164408	105.771 ug/l	98
26) 2,2-Dichloropropane	4.483	77	76816	18.463 ug/l	98
27) cis-1,2-Dichloroethene	4.501	96	65115	18.543 ug/l	99
28) Bromochloromethane	4.904	49	52508	22.891 ug/l	96
29) Tetrahydrofuran	5.019	42	97079	96.629 ug/l	96
30) Chloroform	5.099	83	106302	18.896 ug/l	97
31) Cyclohexane	5.477	56	84972	16.722 ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	86840	17.934 ug/l	98
36) 1,1-Dichloropropene	5.702	75	69481	16.922 ug/l	99
37) Ethyl Acetate	4.715	43	70075	16.439 ug/l	96
38) Carbon Tetrachloride	5.684	117	75969	16.931 ug/l	98
39) Methylcyclohexane	7.385	83	77886	15.207 ug/l	97
40) Benzene	6.044	78	220693	17.957 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047403.D
Acq On : 19 Aug 2025 11:55
Operator : JC/MD
Sample : VX0819WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 12:13:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	35045	19.496	ug/l		92
42) 1,2-Dichloroethane	6.092	62	81344	18.686	ug/l		99
43) Isopropyl Acetate	6.348	43	110451	18.037	ug/l		99
44) Trichloroethene	7.129	130	54266	17.244	ug/l		99
45) 1,2-Dichloropropane	7.434	63	56455	18.336	ug/l		98
46) Dibromomethane	7.580	93	41245	18.452	ug/l		98
47) Bromodichloromethane	7.824	83	84911	18.324	ug/l		95
48) Methyl methacrylate	7.696	41	58149	18.294	ug/l		98
49) 1,4-Dioxane	7.690	88	11911	385.469	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	337359	95.733	ug/l		98
52) Toluene	8.720	92	137617	18.121	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	75672	18.711	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	85316	18.637	ug/l		99
55) 1,1,2-Trichloroethane	9.153	97	54306	18.834	ug/l		100
56) Ethyl methacrylate	9.116	69	76225	17.930	ug/l		96
57) 1,3-Dichloropropane	9.305	76	94506	19.235	ug/l		97
58) 2-Chloroethyl Vinyl ether	8.238	63	194420	100.929	ug/l		98
59) 2-Hexanone	9.433	43	237159	97.292	ug/l		100
60) Dibromochloromethane	9.519	129	64471	18.814	ug/l		100
61) 1,2-Dibromoethane	9.610	107	55618	18.705	ug/l		99
64) Tetrachloroethene	9.269	164	44832	16.708	ug/l		98
65) Chlorobenzene	10.079	112	155025	17.585	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.159	131	53110	17.822	ug/l		99
67) Ethyl Benzene	10.189	91	259370	17.094	ug/l		99
68) m/p-Xylenes	10.299	106	198745	35.129	ug/l		100
69) o-Xylene	10.640	106	95777	17.591	ug/l		99
70) Styrene	10.653	104	168799	18.349	ug/l		99
71) Bromoform	10.799	173	40177	17.946	ug/l	#	99
73) Isopropylbenzene	10.957	105	247370	16.649	ug/l		100
74) N-amyl acetate	10.842	43	100954	17.893	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	78682	18.037	ug/l		97
76) 1,2,3-Trichloropropane	11.238	75	57347m	16.468	ug/l		
77) Bromobenzene	11.195	156	63986	17.636	ug/l		98
78) n-propylbenzene	11.299	91	295566	16.657	ug/l		100
79) 2-Chlorotoluene	11.360	91	182492	17.013	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	206597	16.900	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	10138	18.529	ug/l		97
82) 4-Chlorotoluene	11.451	91	216373	17.112	ug/l		100
83) tert-Butylbenzene	11.713	119	203328	16.671	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	214157	17.518	ug/l		100
85) sec-Butylbenzene	11.890	105	254977	16.867	ug/l		100
86) p-Isopropyltoluene	12.006	119	214549	16.772	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	118907	17.156	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	122086	17.126	ug/l		99
89) n-Butylbenzene	12.329	91	197431	16.594	ug/l		99
90) Hexachloroethane	12.536	117	35860	15.980	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	115308	17.527	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	14165	16.791	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	73210	16.600	ug/l		99
94) Hexachlorobutadiene	13.719	225	25313	16.124	ug/l		98
95) Naphthalene	13.774	128	217150	17.229	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	71038	17.088	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047403.D
Acq On : 19 Aug 2025 11:55
Operator : JC/MD
Sample : VX0819WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 12:13:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

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\VX081925\
Data File : VX047403.D
Acq On : 19 Aug 2025 11:55
Operator : JC/MD
Sample : VX0819WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 12:13:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Manual Integrations APPROVED

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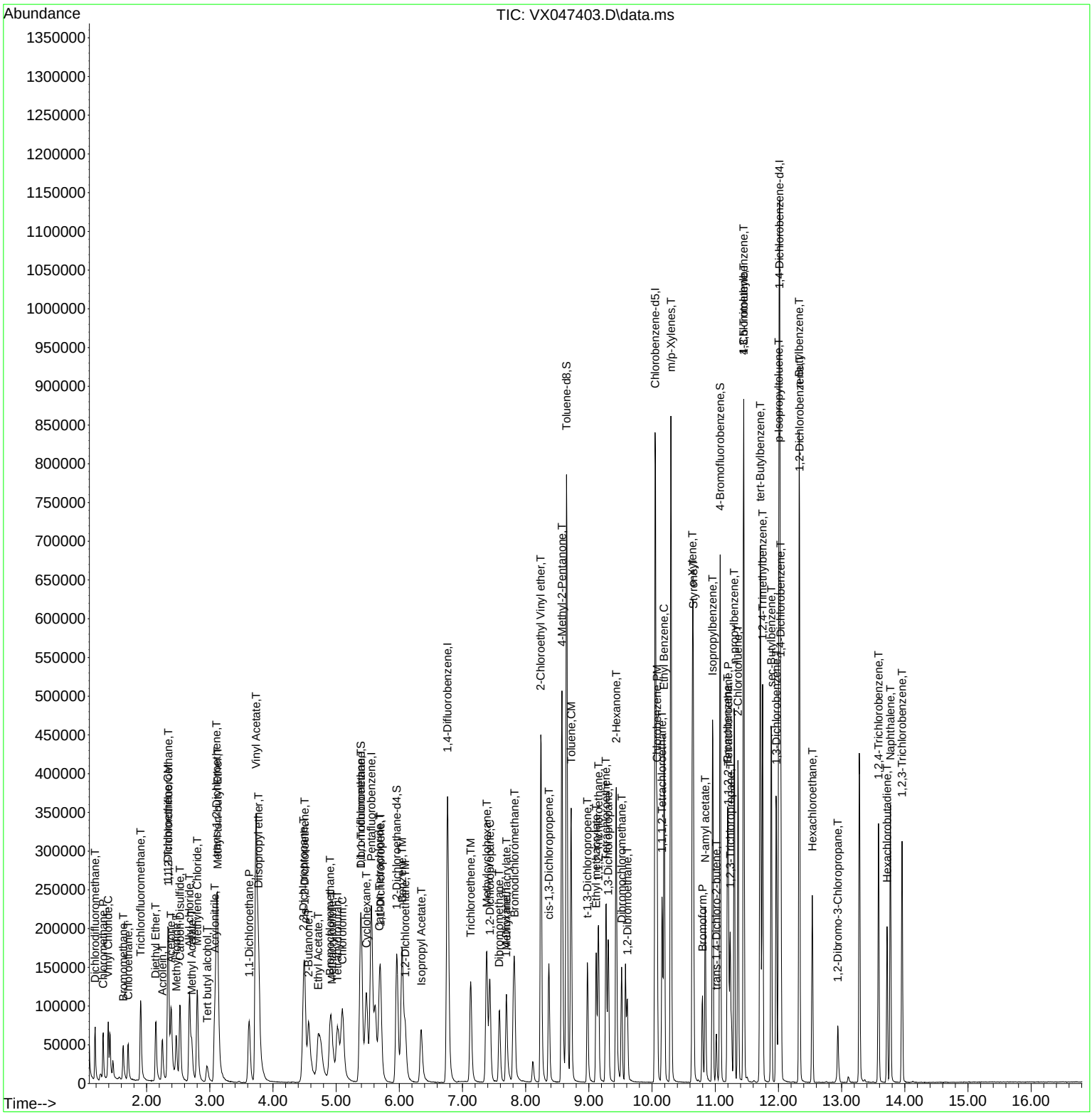
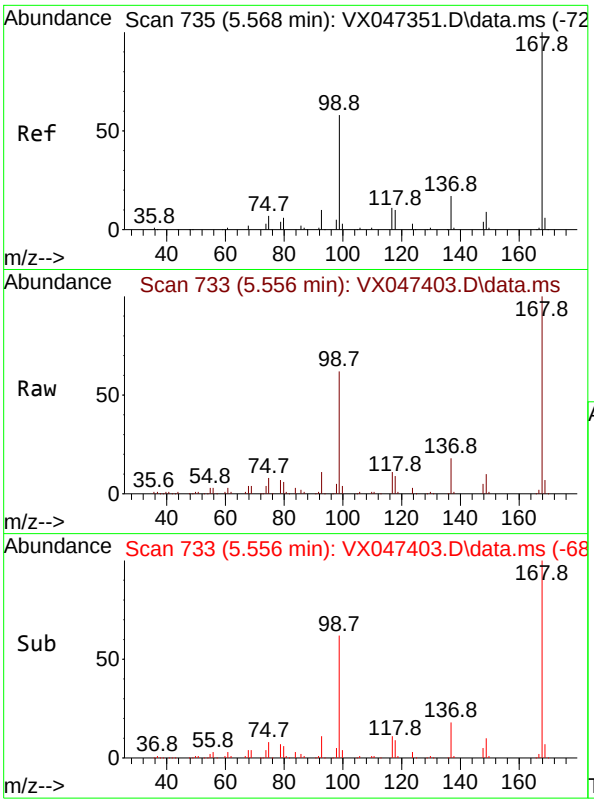
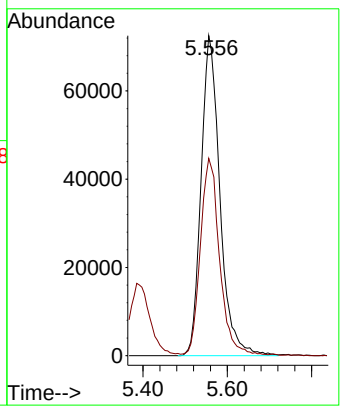




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:168 Resp: 22561

Ion	Ratio	Lower	Upper
168	100		
99	61.4	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Manual Integrations
APPROVED

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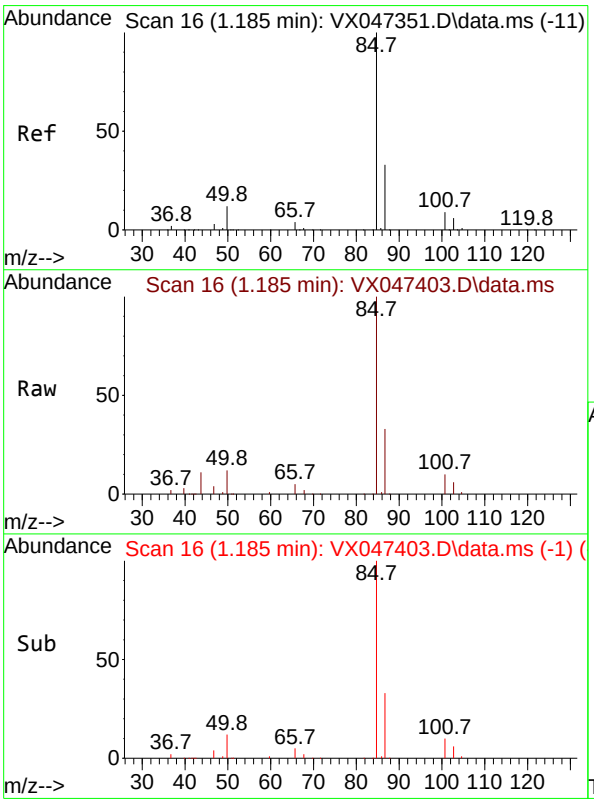
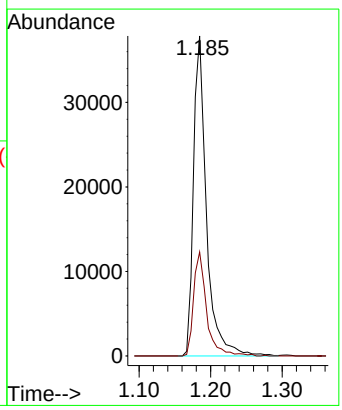
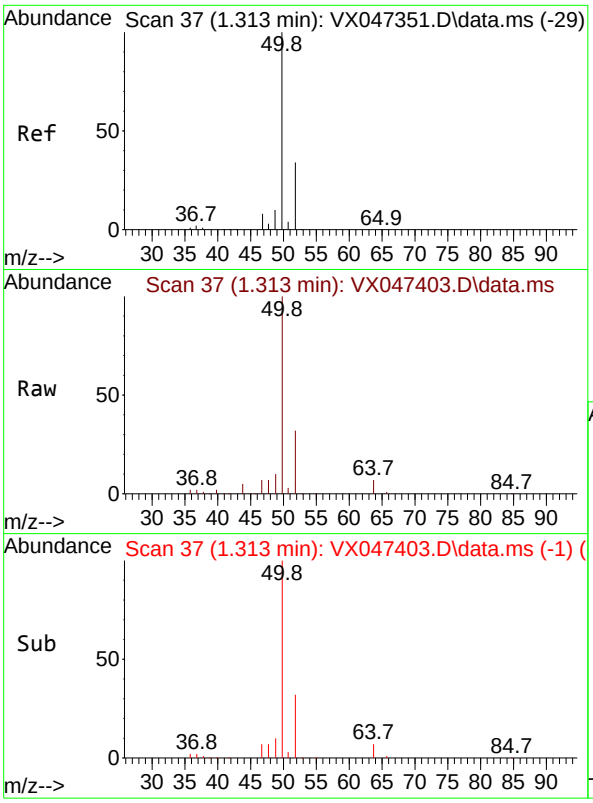


#2
Dichlorodifluoromethane
Concen: 16.575 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 85 Resp: 47669

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.4	49.1

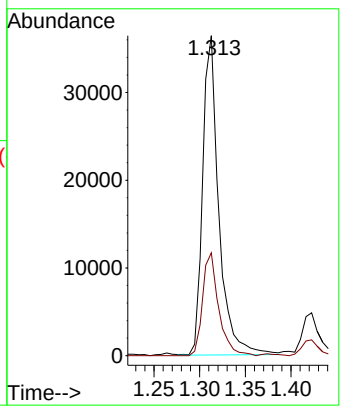




#3
Chloromethane
Concen: 17.237 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 50 Resp: 4459

Ion	Ratio	Lower	Upper
50	100		
52	32.3	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/20/2025
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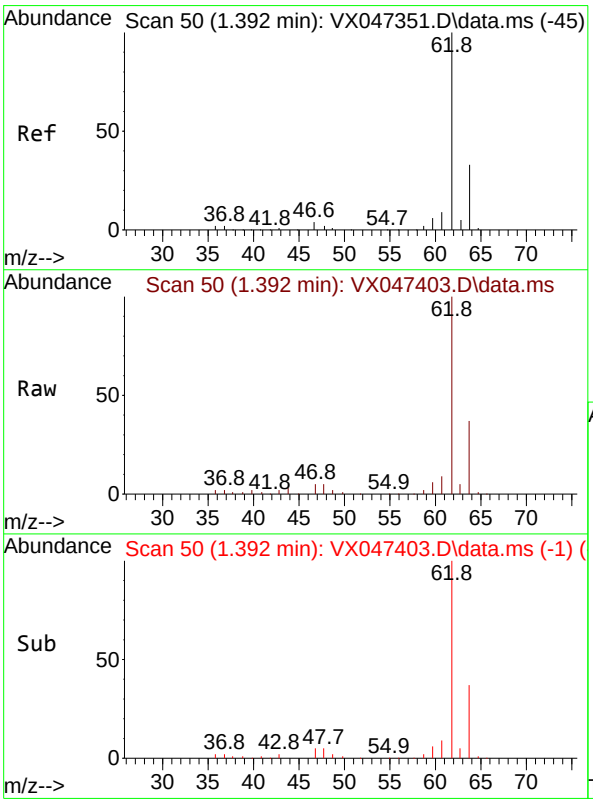
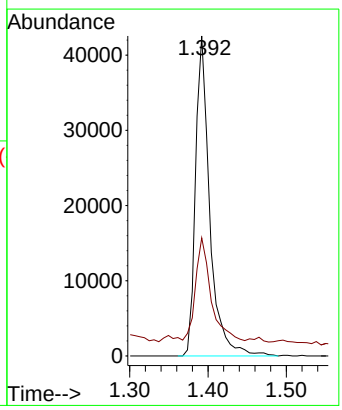
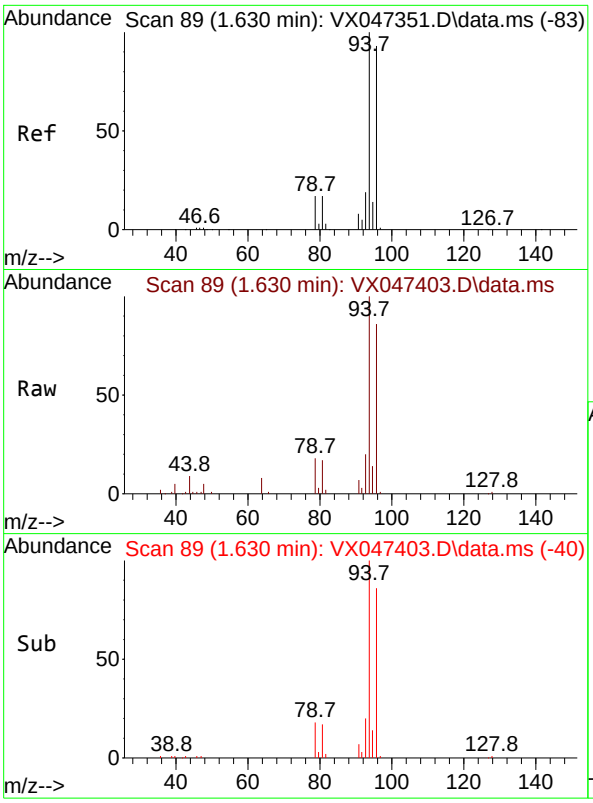


#4
Vinyl Chloride
Concen: 16.616 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 62 Resp: 53957

Ion	Ratio	Lower	Upper
62	100		
64	32.2	26.5	39.7

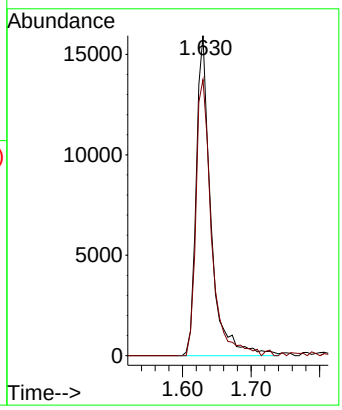




#5
Bromomethane
Concen: 18.170 ug/l
RT: 1.630 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 94 Resp: 2383

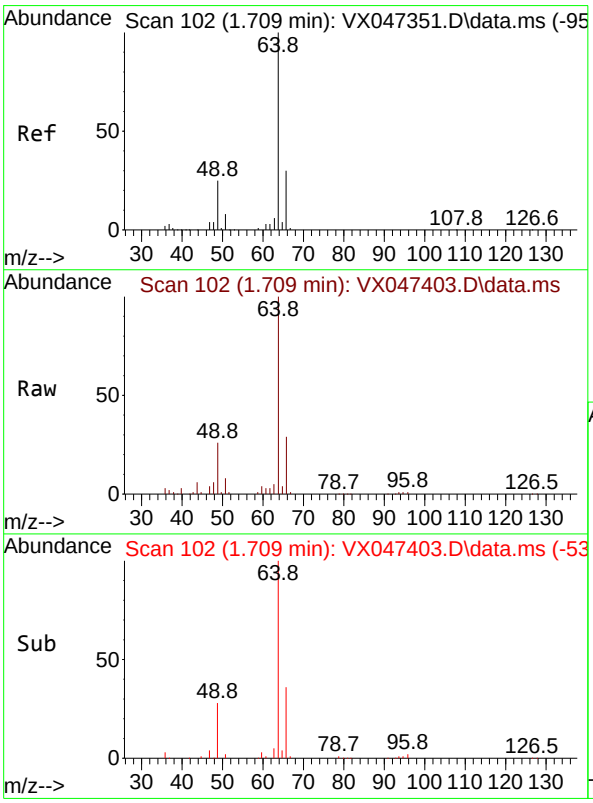
Ion	Ratio	Lower	Upper
94	100		
96	75.7	74.7	112.1



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Manual Integrations
APPROVED

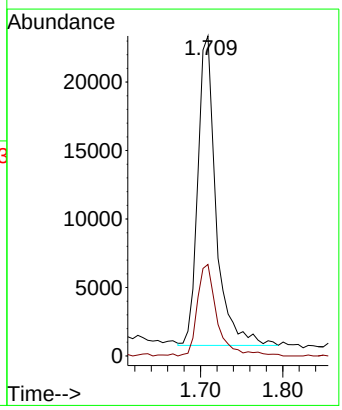
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

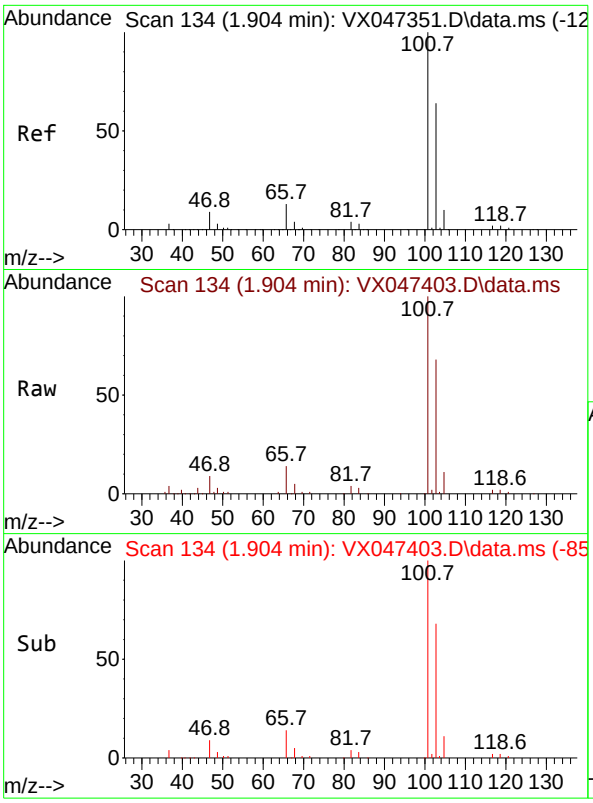


#6
Chloroethane
Concen: 17.482 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 64 Resp: 34734

Ion	Ratio	Lower	Upper
64	100		
66	29.6	24.4	36.6

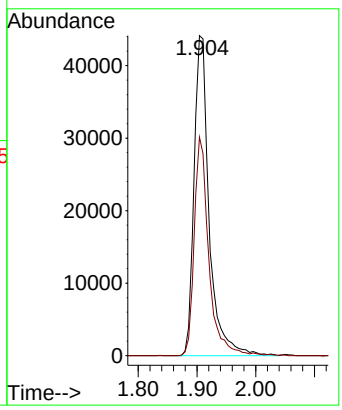




#7
Trichlorofluoromethane
Concen: 16.414 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:101 Resp: 7884

Ion	Ratio	Lower	Upper
101	100		
103	68.3	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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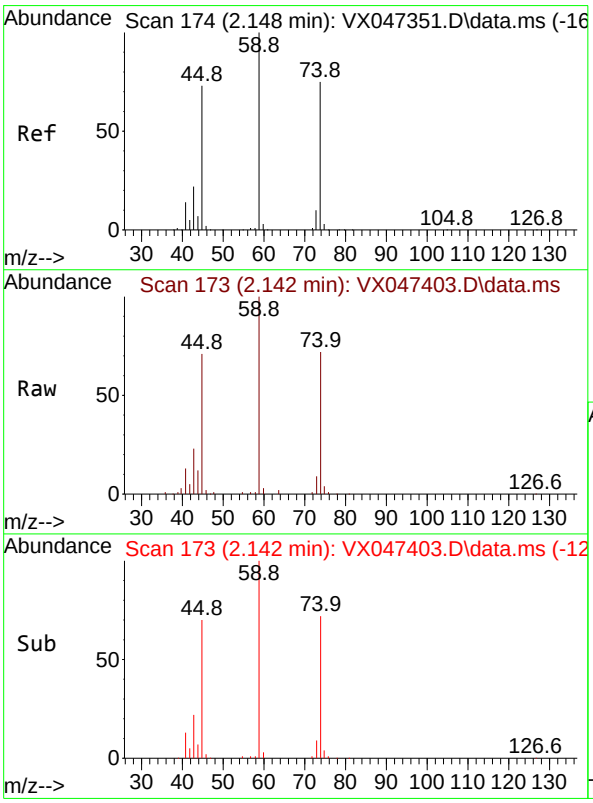
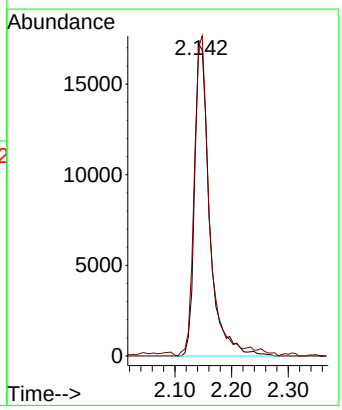
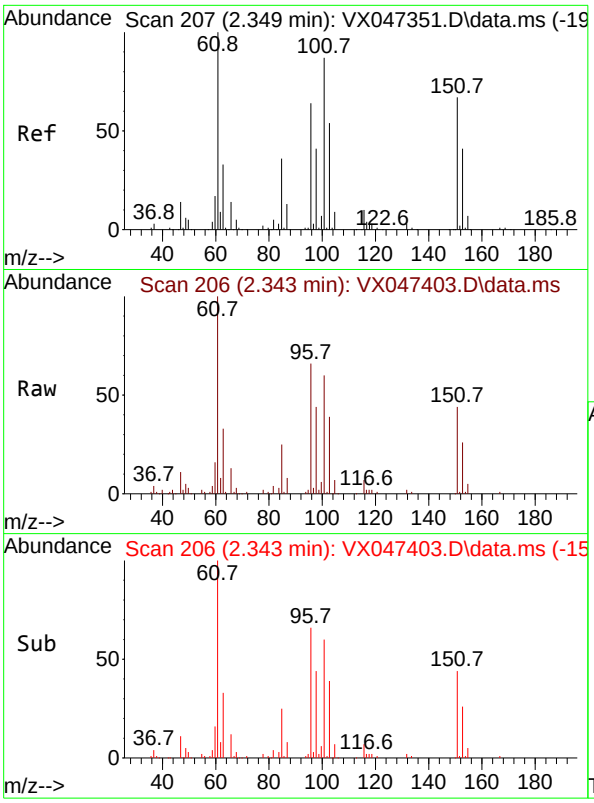


#8
Diethyl Ether
Concen: 18.794 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 74 Resp: 31787

Ion	Ratio	Lower	Upper
74	100		
45	103.0	51.3	154.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 16.545 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:101 Resp: 4610

Ion	Ratio	Lower	Upper
101	100		
85	43.8	34.3	51.5
151	74.2	59.2	88.8

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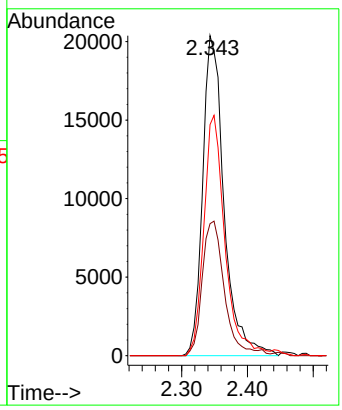
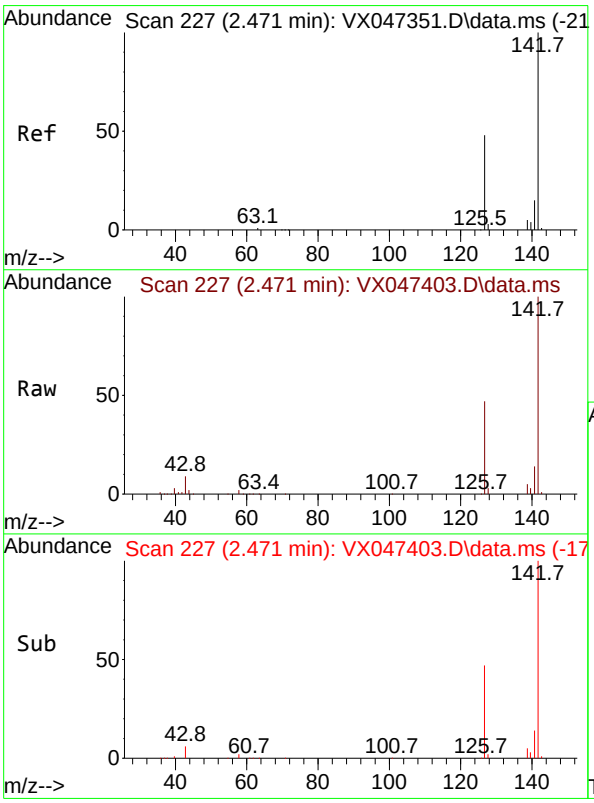
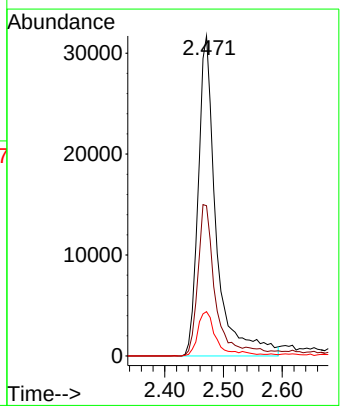


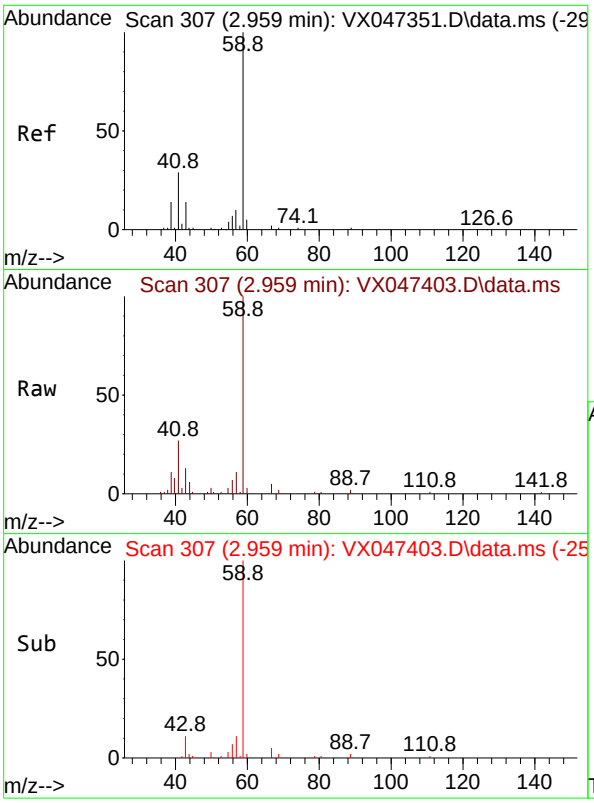


#10
Methyl Iodide
Concen: 14.146 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:142 Resp: 67548

Ion	Ratio	Lower	Upper
142	100		
127	46.6	36.1	54.1
141	13.5	11.1	16.7

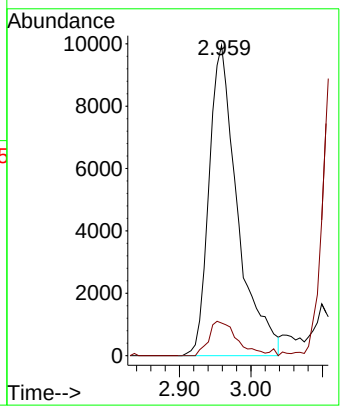




#11
Tert butyl alcohol
Concen: 100.272 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 59 Resp: 2754

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.3	12.5



Instrument :
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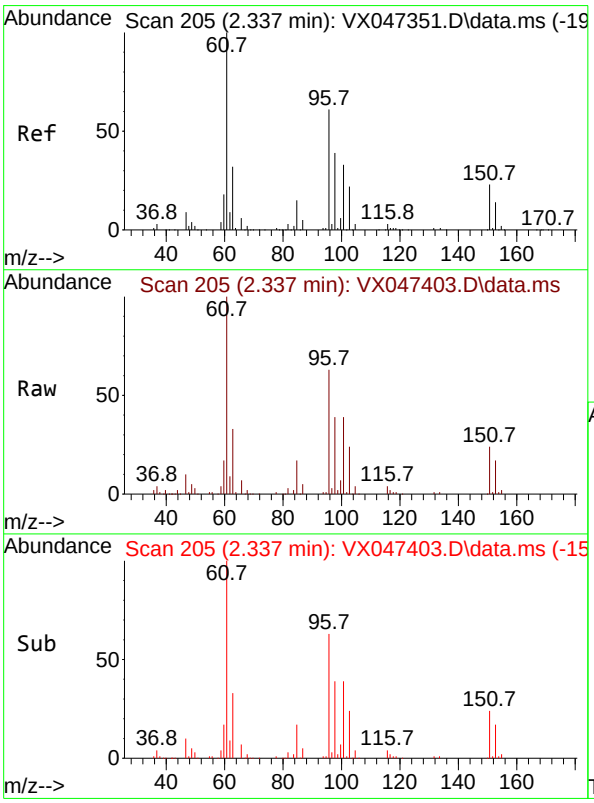
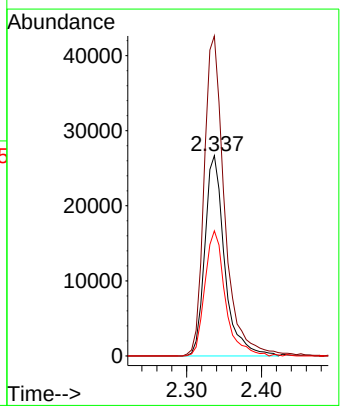
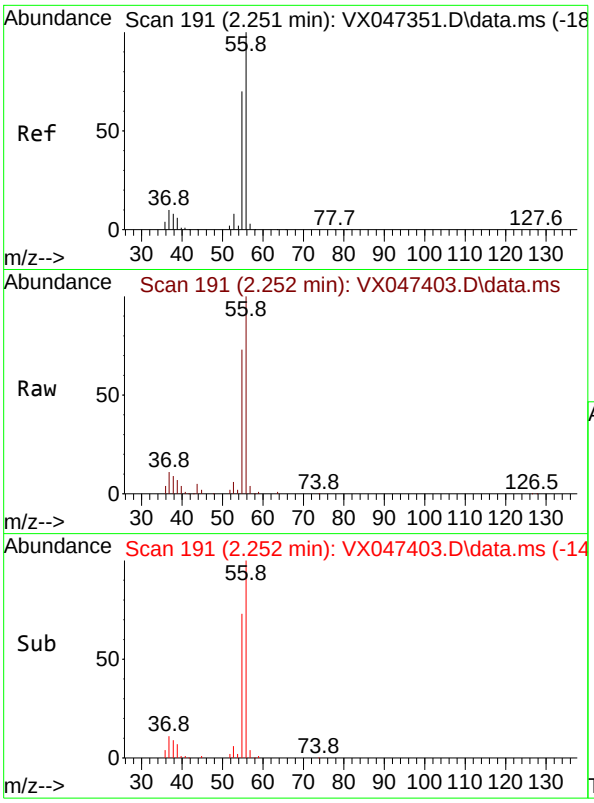


#12
1,1-Dichloroethene
Concen: 17.304 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 96 Resp: 49153

Ion	Ratio	Lower	Upper
96	100		
61	159.7	132.2	198.2
98	62.4	51.2	76.8

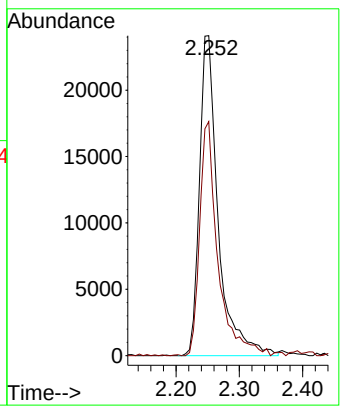




#13
Acrolein
Concen: 85.675 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 56 Resp: 4967

Ion	Ratio	Lower	Upper
56	100		
55	70.9	55.5	83.3



Instrument :
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ClientSampleId :
VX0819WBS01

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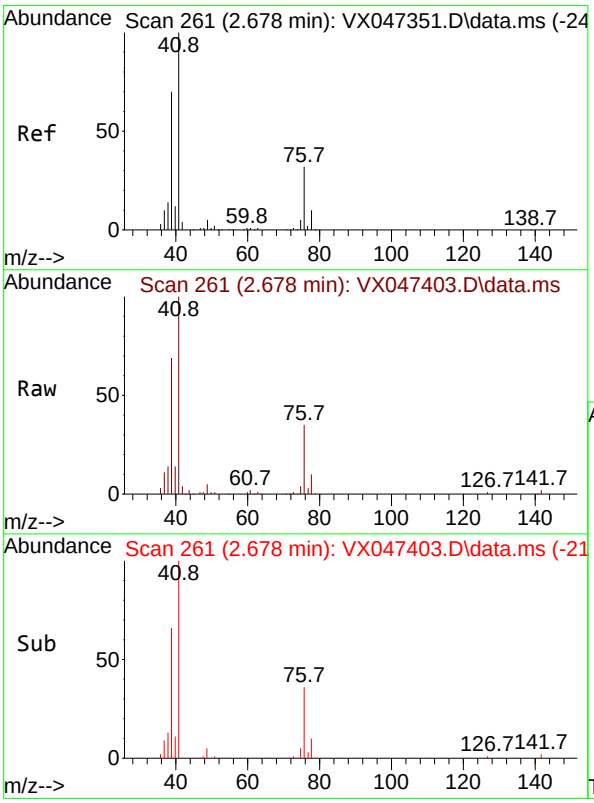
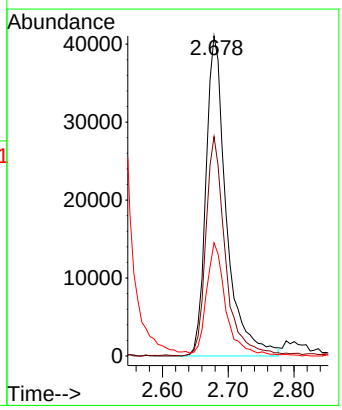
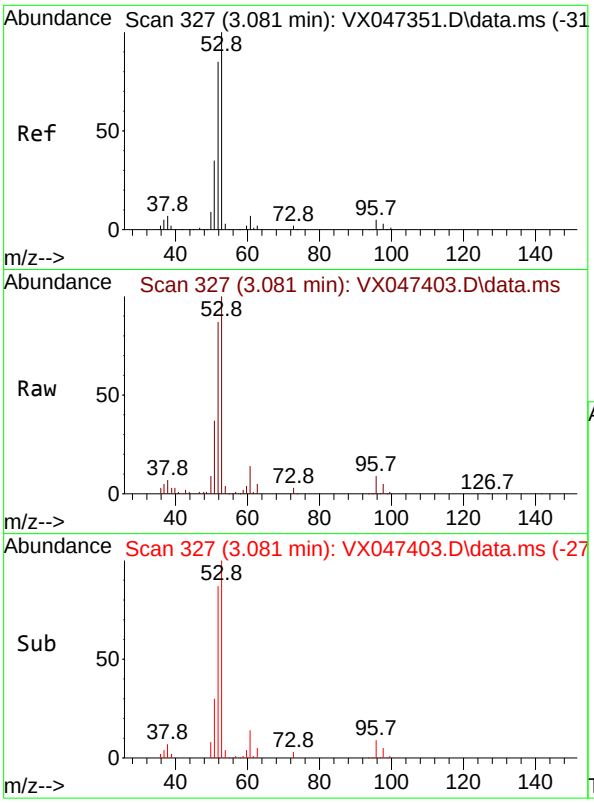


#14
Allyl chloride
Concen: 18.017 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 41 Resp: 88890

Ion	Ratio	Lower	Upper
41	100		
39	66.1	54.6	81.8
76	33.8	27.6	41.4

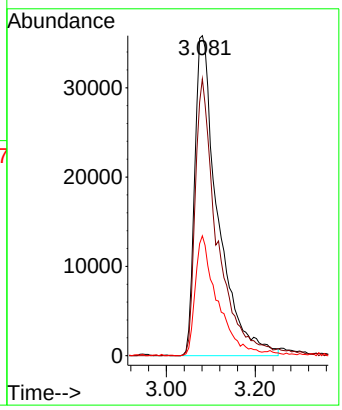




#15
Acrylonitrile
Concen: 97.623 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 53 Resp: 12957

Ion	Ratio	Lower	Upper
53	100		
52	81.7	65.8	98.6
51	35.9	28.2	42.2



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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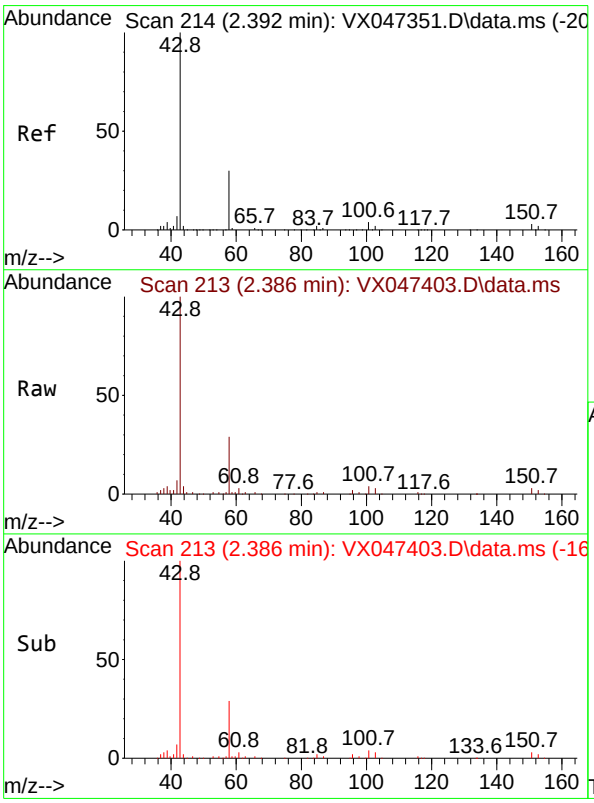
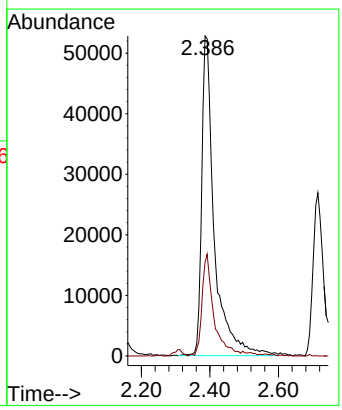
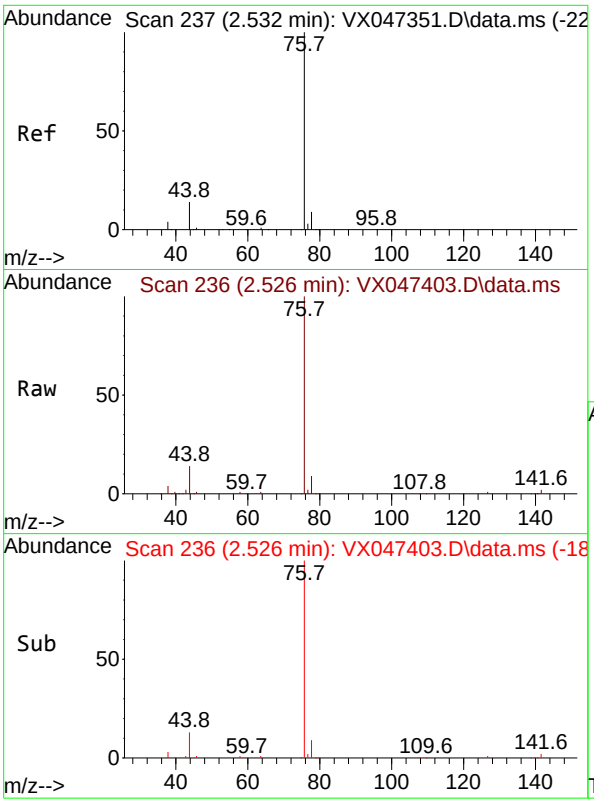


#16
Acetone
Concen: 113.461 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 134660

Ion	Ratio	Lower	Upper
43	100		
58	30.5	24.8	37.2





#17
Carbon Disulfide
Concen: 16.407 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 76 Resp: 14064

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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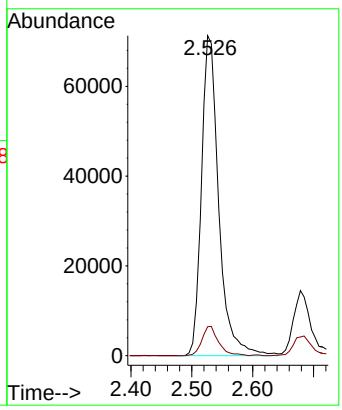
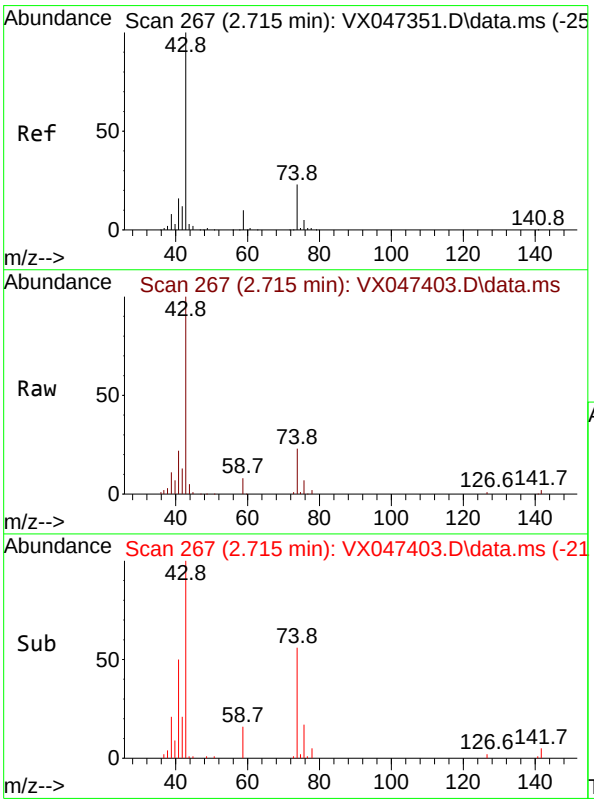
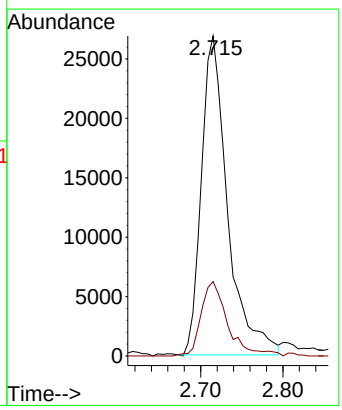


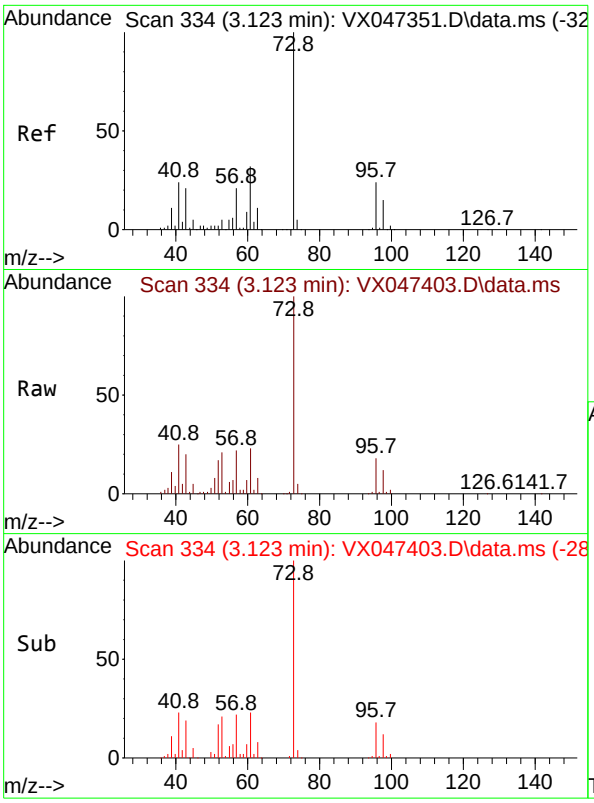


#18
Methyl Acetate
Concen: 19.307 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 59381

Ion	Ratio	Lower	Upper
43	100		
74	23.6	18.4	27.6

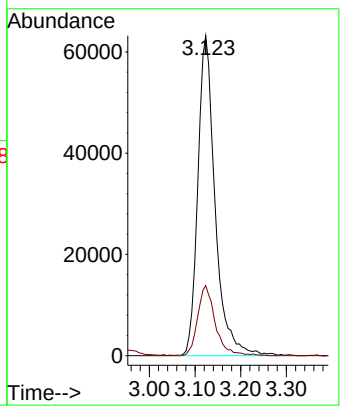




#19
Methyl tert-butyl Ether
Concen: 19.208 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 73 Resp: 16598

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.0	25.6



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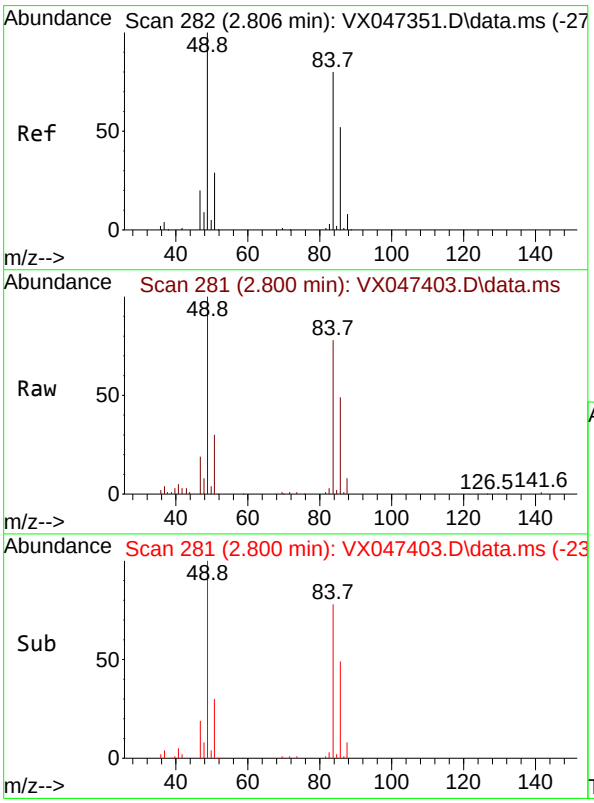
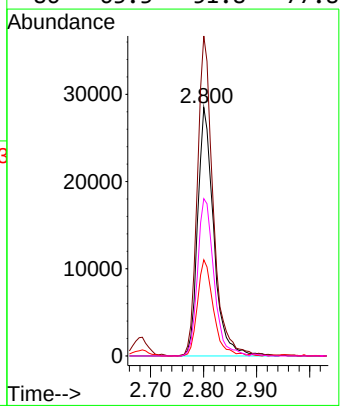
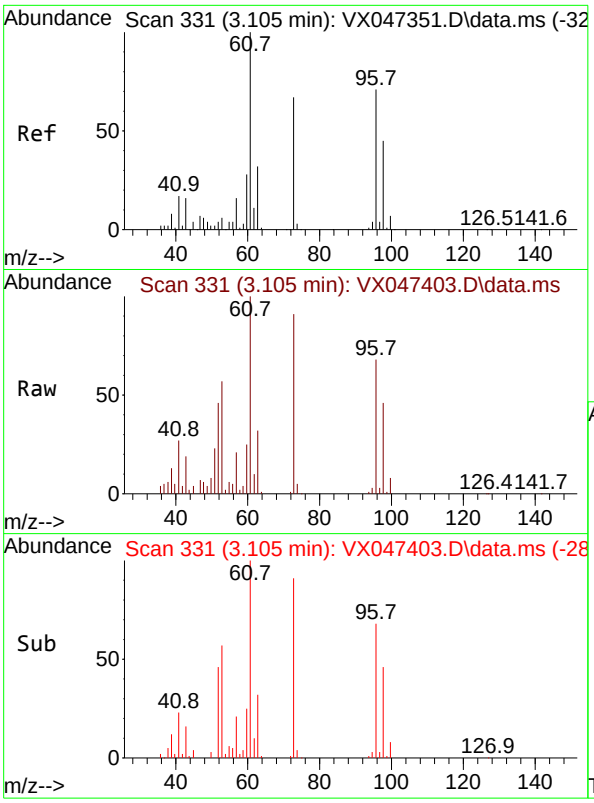


#20
Methylene Chloride
Concen: 18.973 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 84 Resp: 59628

Ion	Ratio	Lower	Upper
84	100		
49	128.7	100.1	150.1
51	38.7	29.5	44.3
86	63.3	51.8	77.8

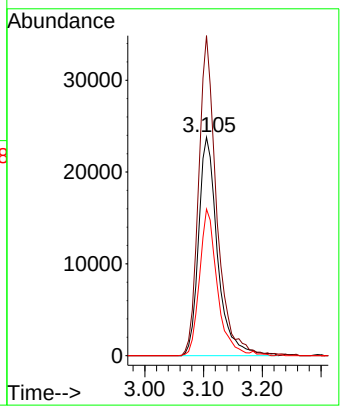




#21
trans-1,2-Dichloroethene
Concen: 17.738 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 96 Resp: 5348

Ion	Ratio	Lower	Upper
96	100		
61	146.6	112.6	169.0
98	67.1	50.9	76.3



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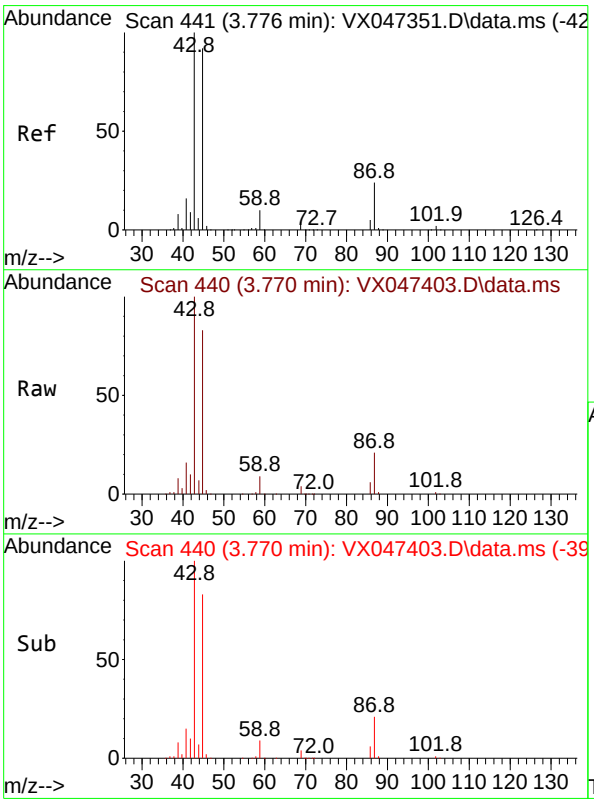
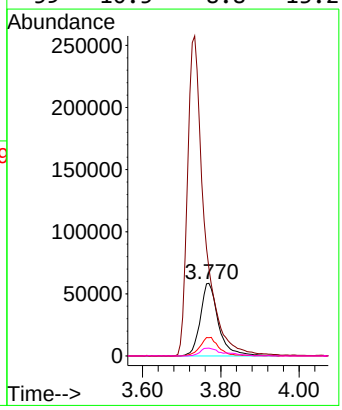
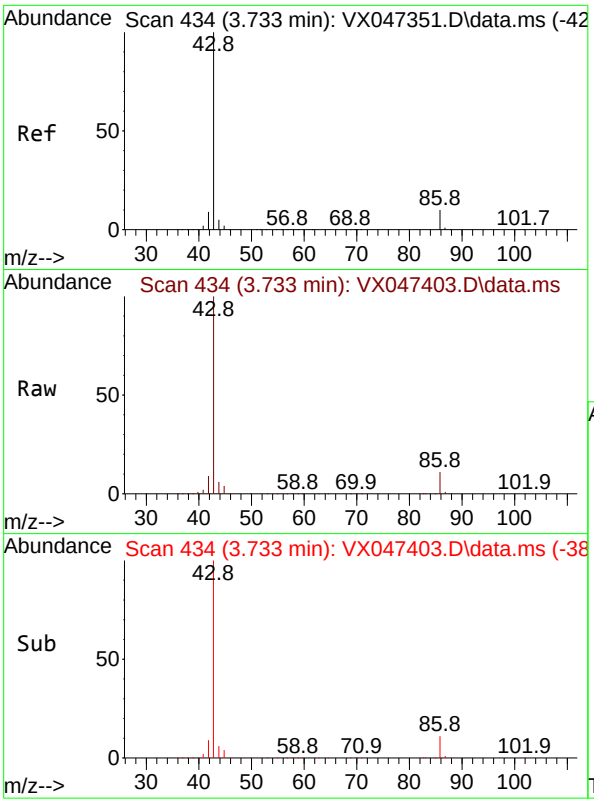


#22
Diisopropyl ether
Concen: 19.306 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 45 Resp: 188286

Ion	Ratio	Lower	Upper
45	100		
43	116.0	86.8	130.2
87	24.7	20.4	30.6
59	10.5	8.8	13.2





#23
Vinyl Acetate
Concen: 97.042 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 77571

Ion	Ratio	Lower	Upper
43	100		
86	10.6	7.9	11.9

Instrument :
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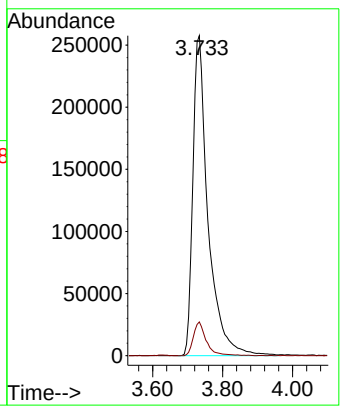
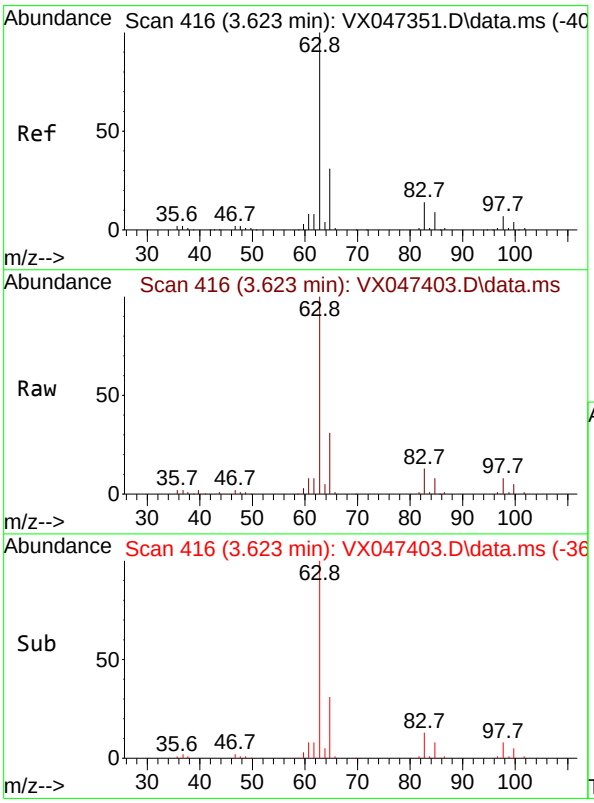
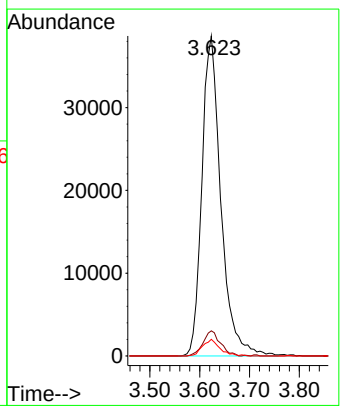


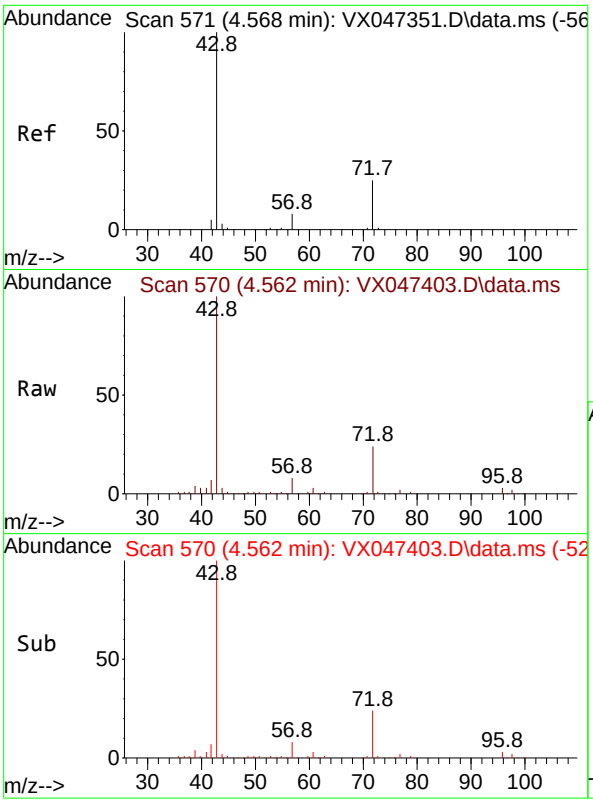


#24
1,1-Dichloroethane
Concen: 18.559 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 63 Resp: 102305

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.3	9.9
100	5.2	2.1	6.3

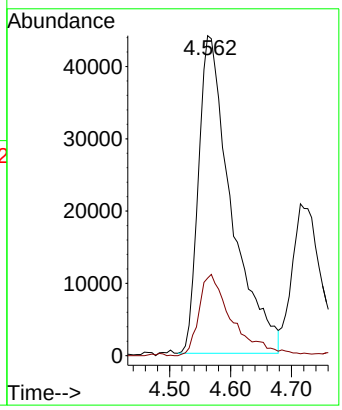




#25
2-Butanone
Concen: 105.771 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 16440

Ion	Ratio	Lower	Upper
43	100		
72	25.9	19.8	29.8



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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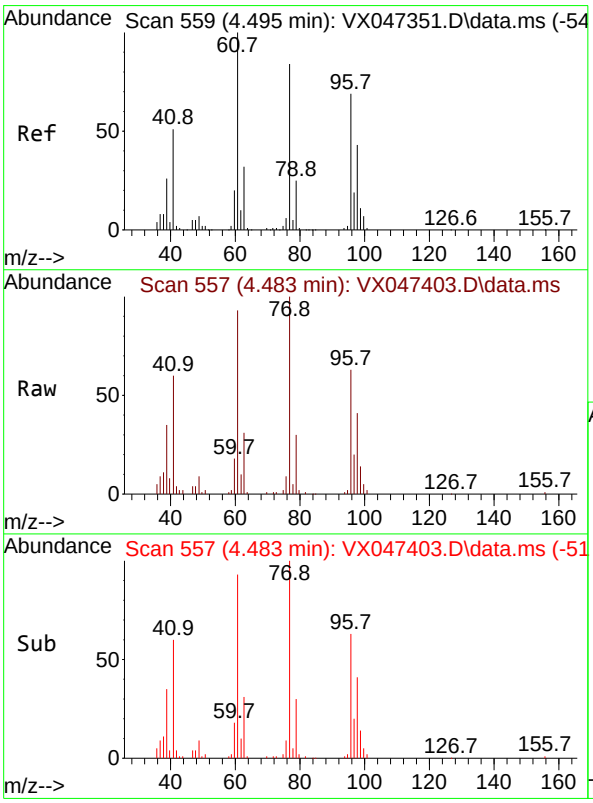
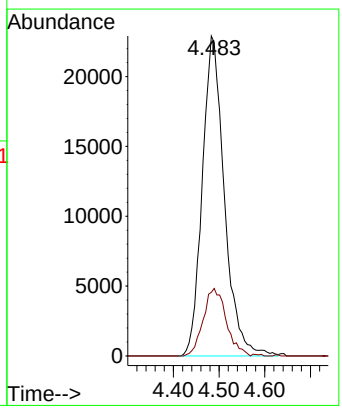
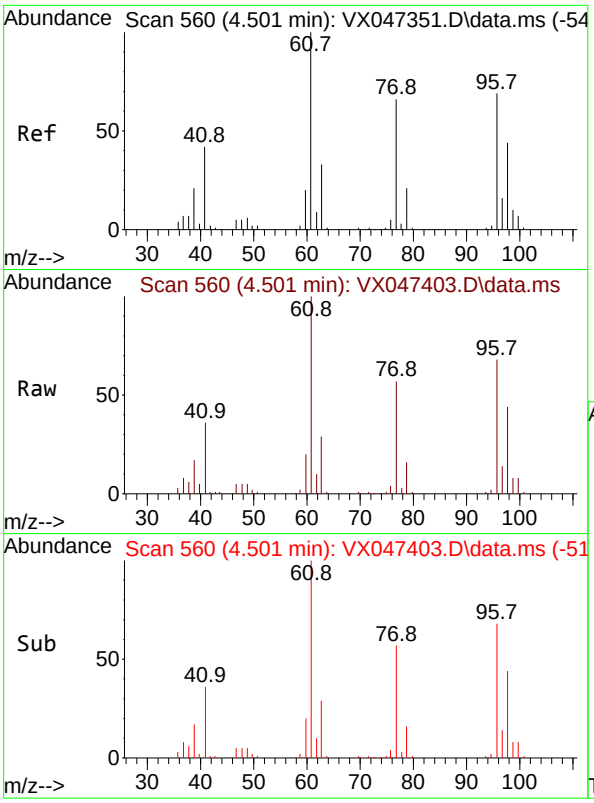


#26
2,2-Dichloropropane
Concen: 18.463 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.012 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 77 Resp: 76816

Ion	Ratio	Lower	Upper
77	100		
97	22.0	11.4	34.1

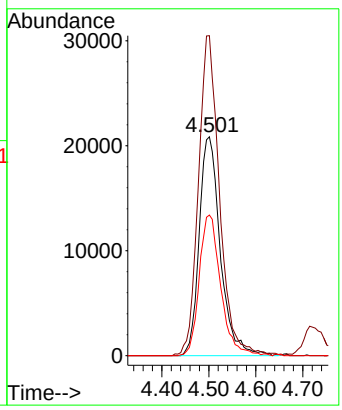




#27
cis-1,2-Dichloroethene
Concen: 18.543 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 96 Resp: 6511

Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	296.6
98	65.3	0.0	130.4



Instrument :
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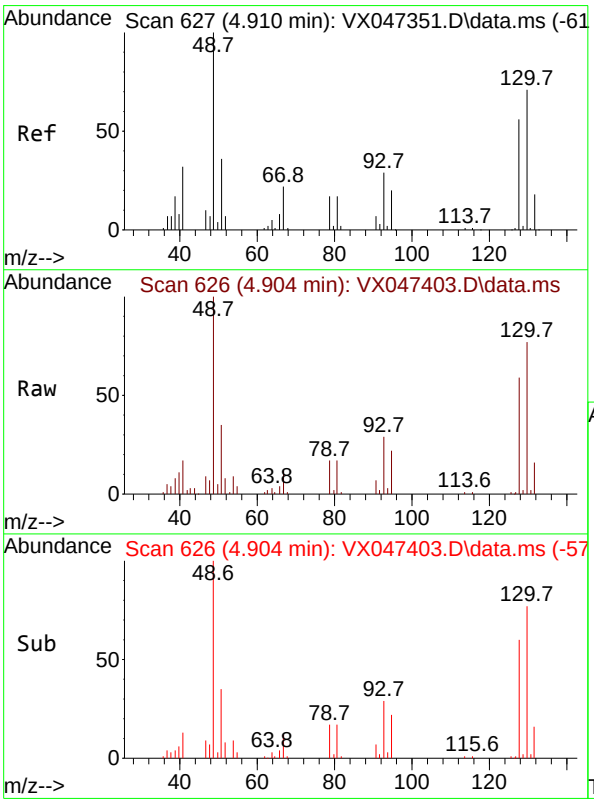
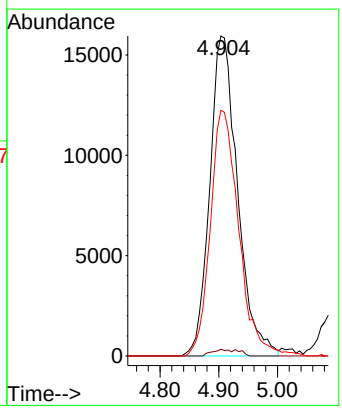
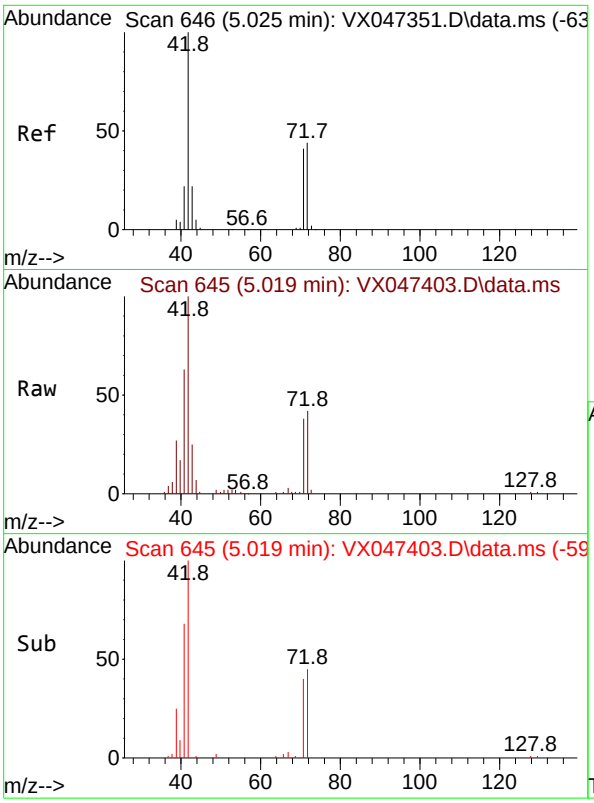


#28
Bromochloromethane
Concen: 22.891 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 49 Resp: 52508

Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	4.0
130	78.3	59.8	89.6

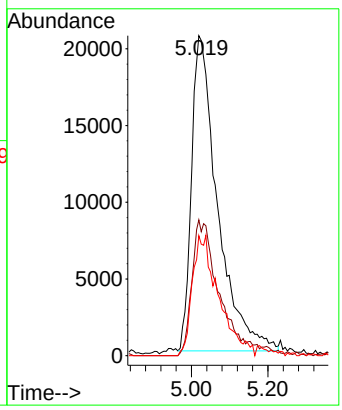




#29
Tetrahydrofuran
Concen: 96.629 ug/l
RT: 5.019 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 42 Resp: 9707

Ion	Ratio	Lower	Upper
42	100		
72	45.1	34.6	51.8
71	37.5	32.6	49.0



Instrument :
MSVOA_X
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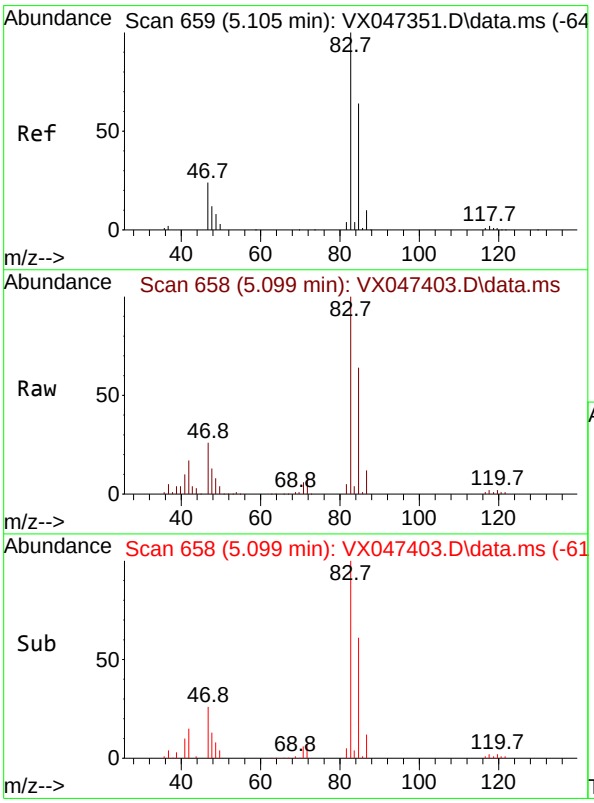
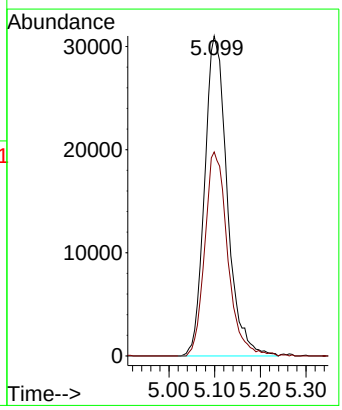
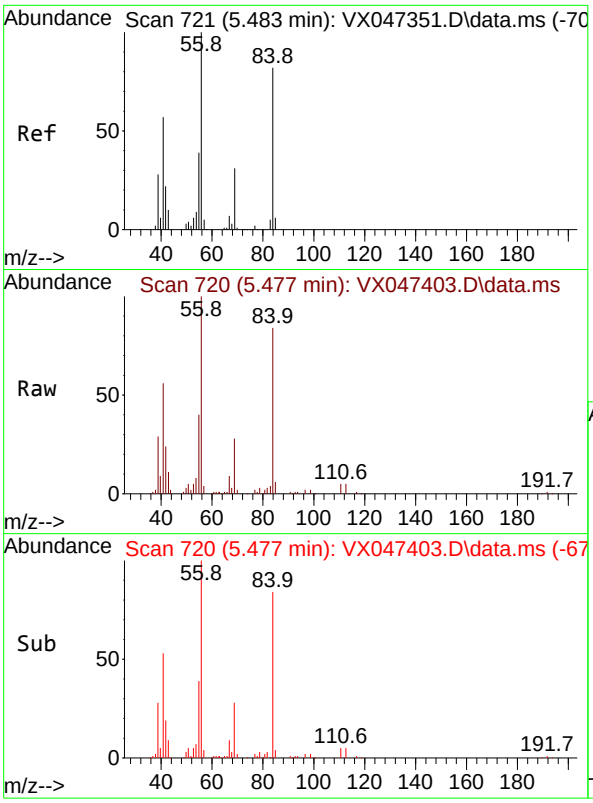


#30
Chloroform
Concen: 18.896 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 83 Resp: 106302

Ion	Ratio	Lower	Upper
83	100		
85	61.3	51.2	76.8

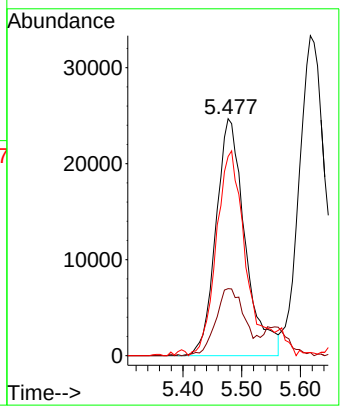




#31
Cyclohexane
Concen: 16.722 ug/l
RT: 5.477 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 56 Resp: 8497

Ion	Ratio	Lower	Upper
56	100		
69	27.8	24.3	36.5
84	82.4	65.3	97.9



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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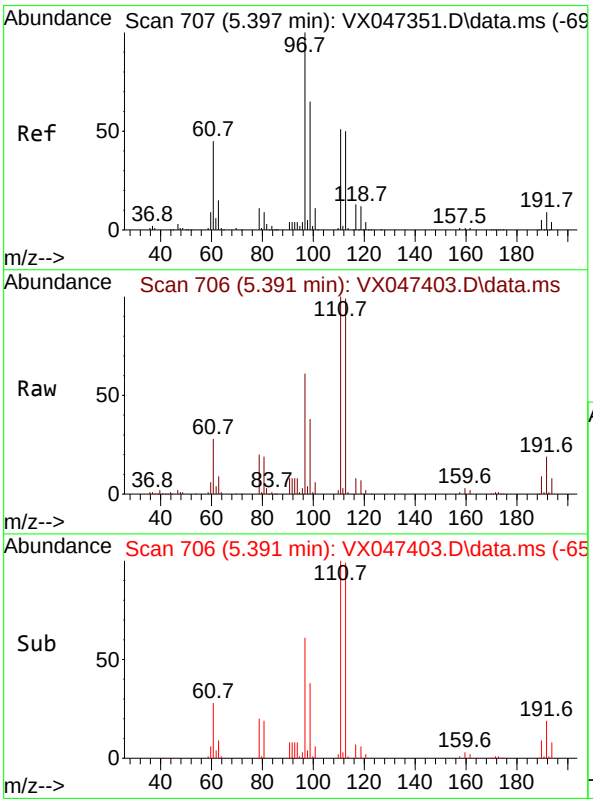
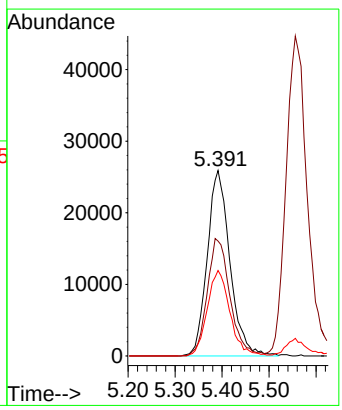
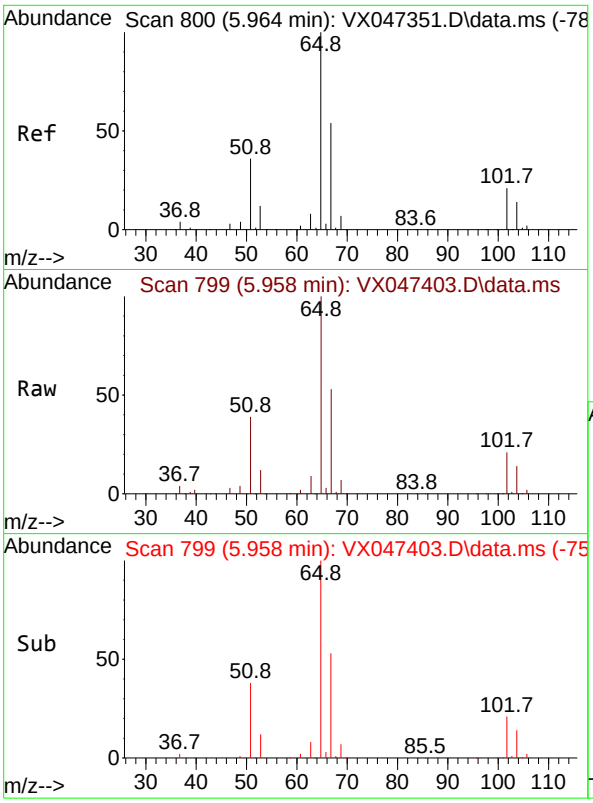


#32
1,1,1-Trichloroethane
Concen: 17.934 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 97 Resp: 86840

Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.4	77.0
61	46.2	35.7	53.5

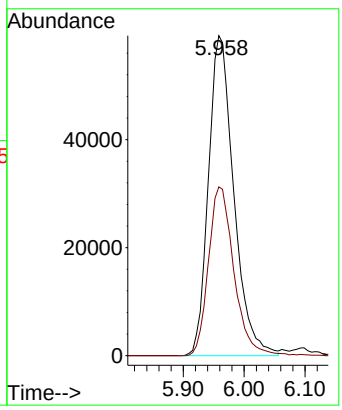




#33
1,2-Dichloroethane-d4
Concen: 54.270 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 65 Resp: 17135

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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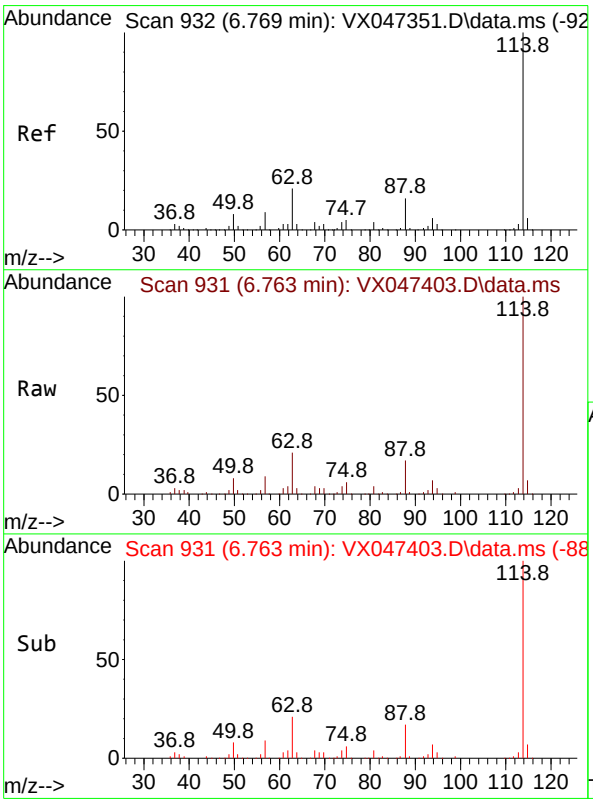
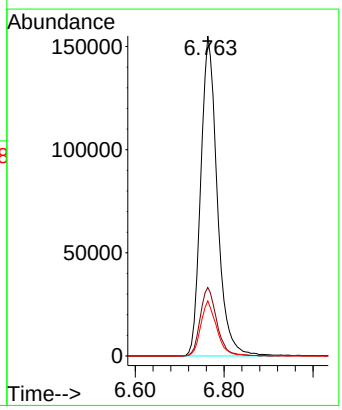
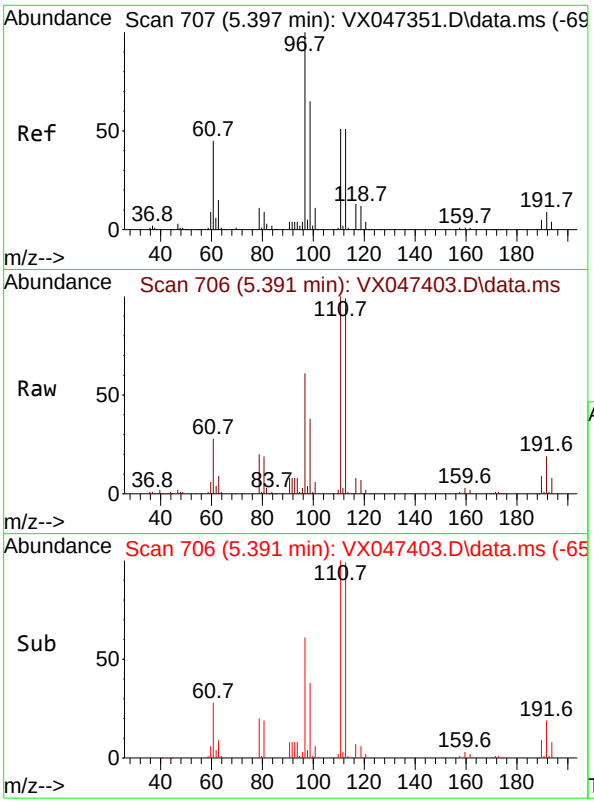


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:114 Resp: 400778

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	42.4
88	17.2	0.0	33.0

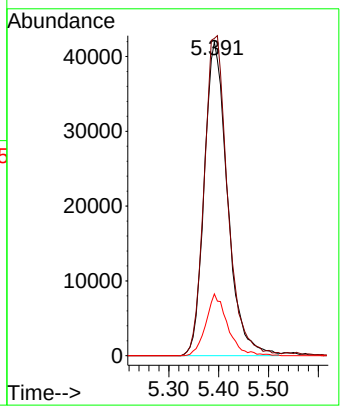




#35
Dibromofluoromethane
Concen: 52.123 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:113 Resp: 13557

Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.4	122.2
192	18.5	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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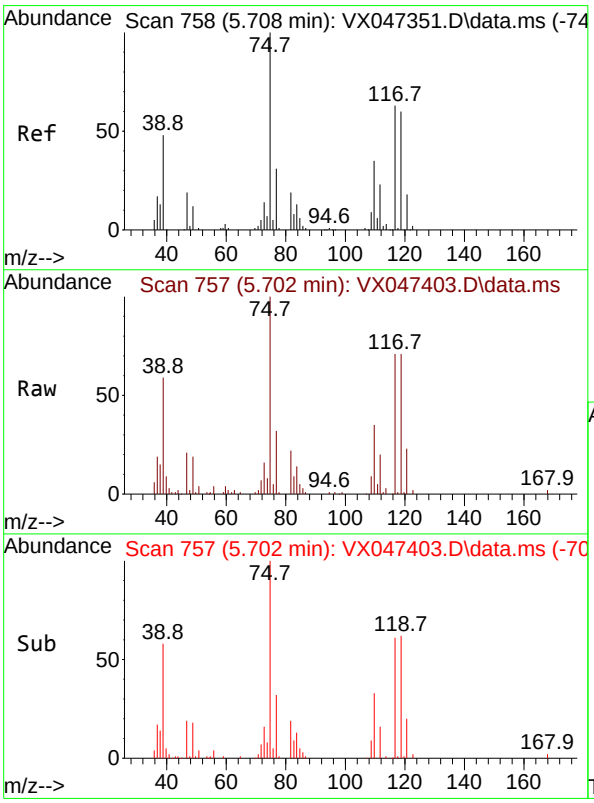
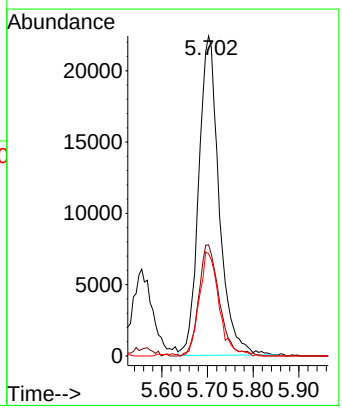
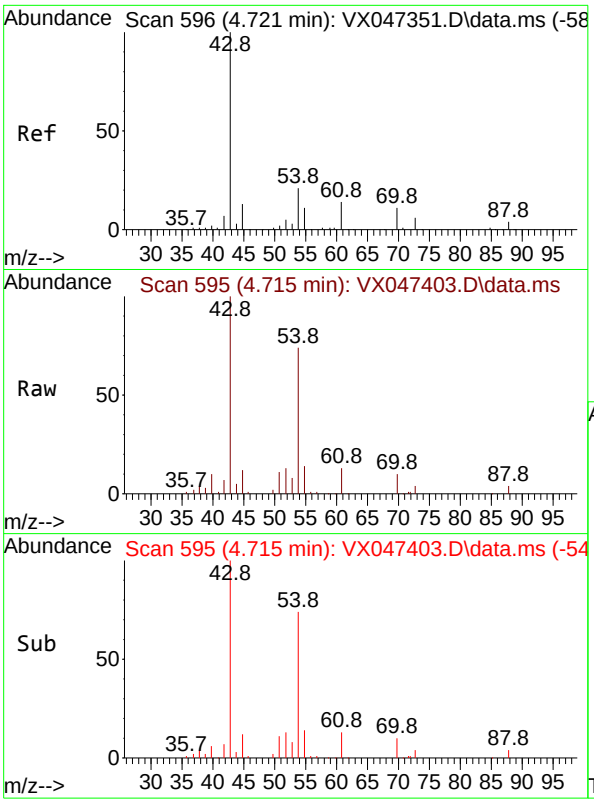


#36
1,1-Dichloropropene
Concen: 16.922 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 75 Resp: 69481

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.4	52.2
77	31.6	24.4	36.6





#37
Ethyl Acetate
Concen: 16.439 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 7007

Ion	Ratio	Lower	Upper
43	100		
61	13.8	9.4	14.2
70	9.5	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
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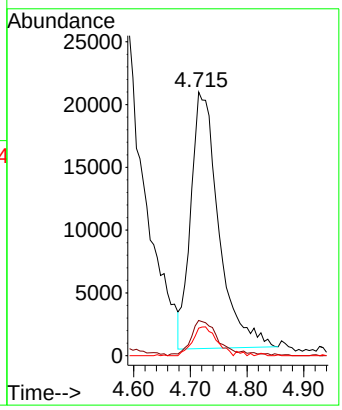
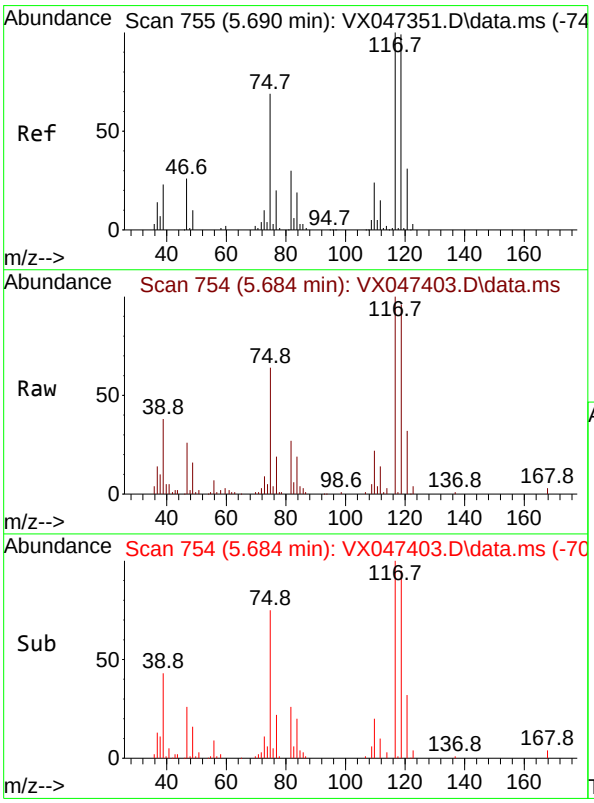
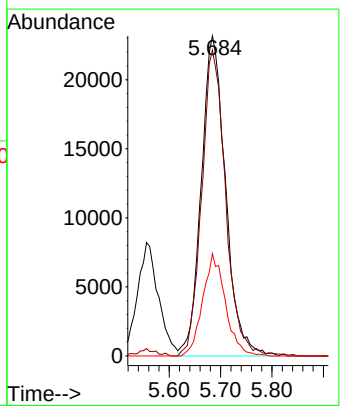


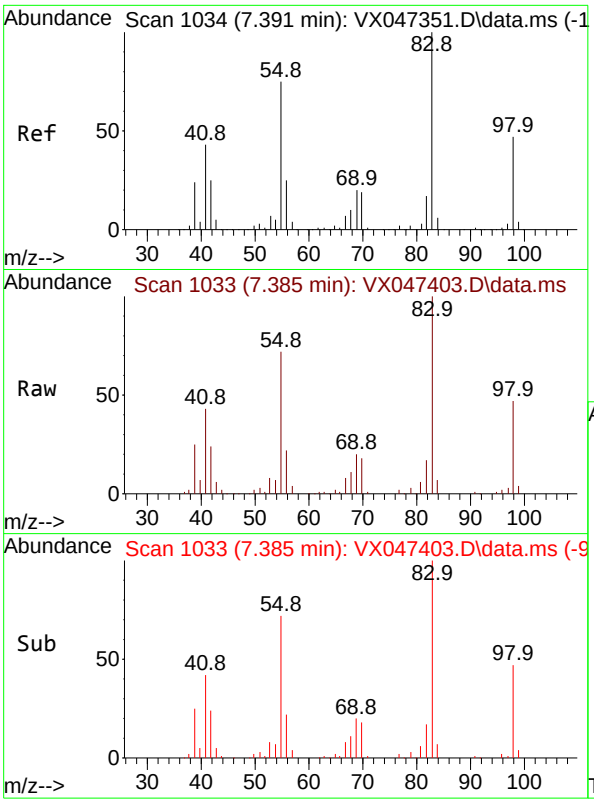


#38
Carbon Tetrachloride
Concen: 16.931 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:117 Resp: 75969

Ion	Ratio	Lower	Upper
117	100		
119	95.5	78.5	117.7
121	32.0	24.7	37.1

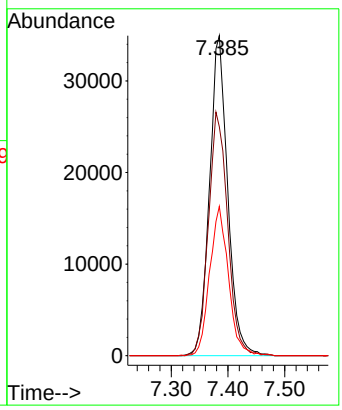




#39
Methylcyclohexane
Concen: 15.207 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 83 Resp: 7788

Ion	Ratio	Lower	Upper
83	100		
55	71.6	60.0	90.0
98	46.7	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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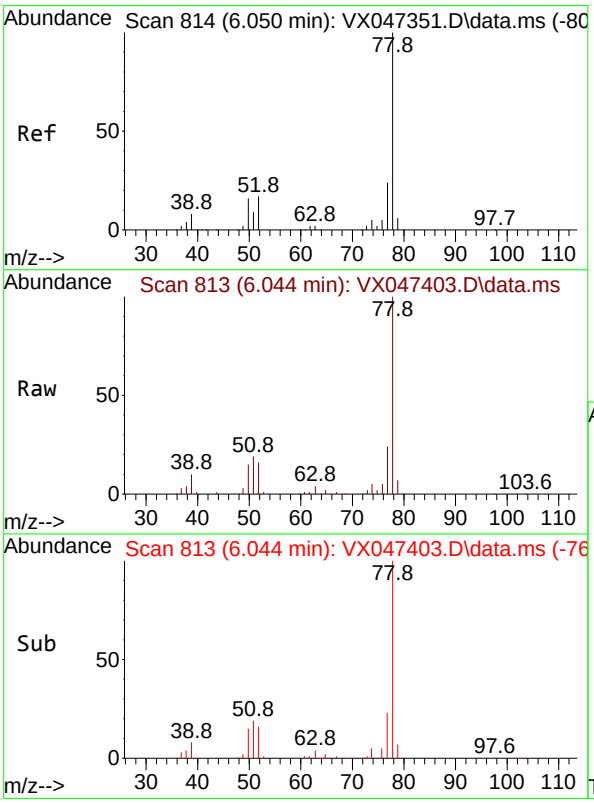
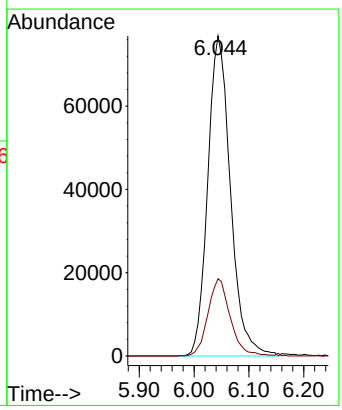
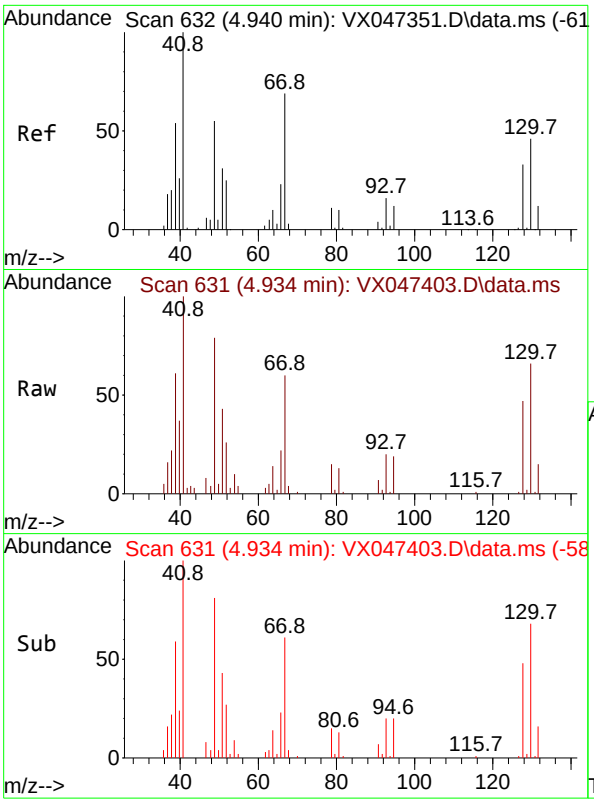


#40
Benzene
Concen: 17.957 ug/l
RT: 6.044 min Scan# 813
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 78 Resp: 220693

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.4

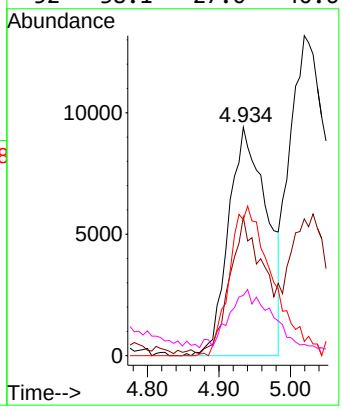




#41
Methacrylonitrile
Concen: 19.496 ug/l
RT: 4.934 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 41 Resp: 3504

Ion	Ratio	Lower	Upper
41	100		
39	51.1	45.4	68.2
67	73.4	64.0	96.0
52	38.1	27.0	40.6



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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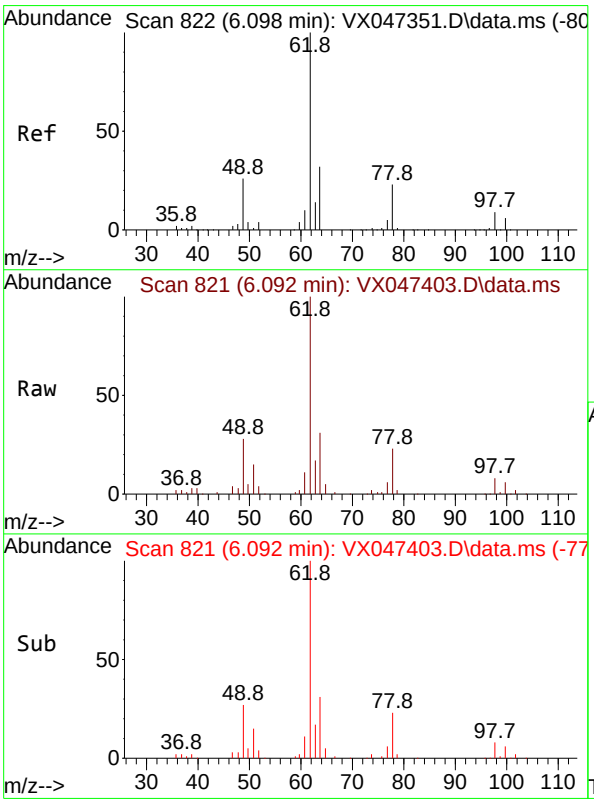
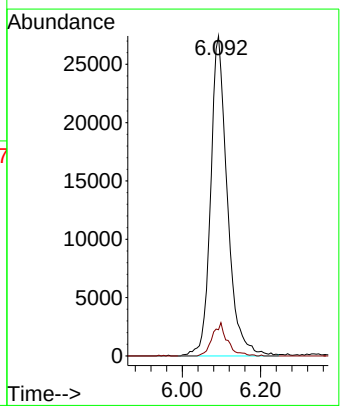
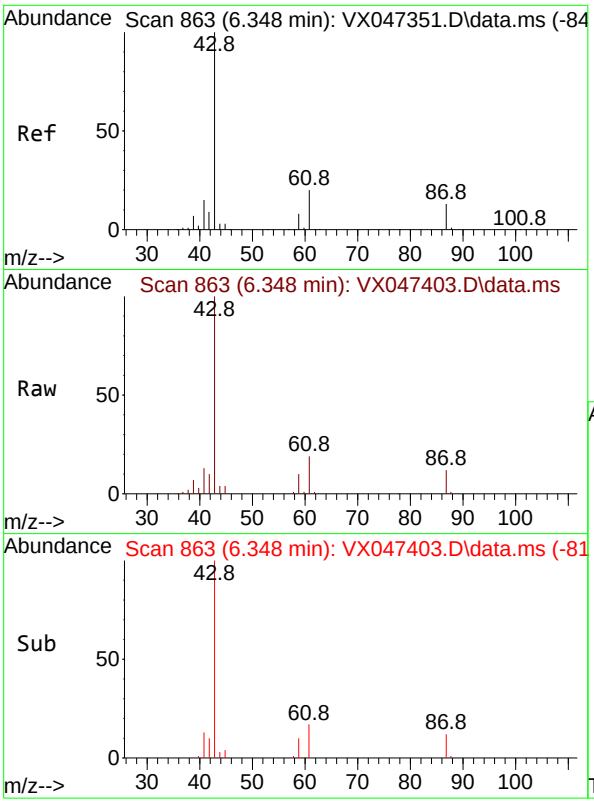


#42
1,2-Dichloroethane
Concen: 18.686 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 62 Resp: 81344

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.0

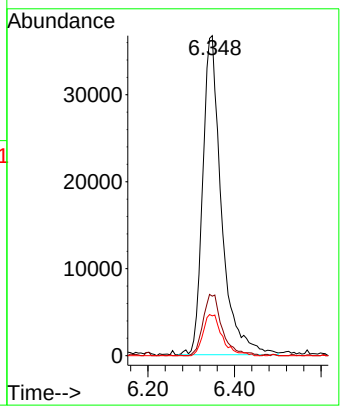




#43
Isopropyl Acetate
Concen: 18.037 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 11045

Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.4	23.0
87	13.2	10.2	15.4



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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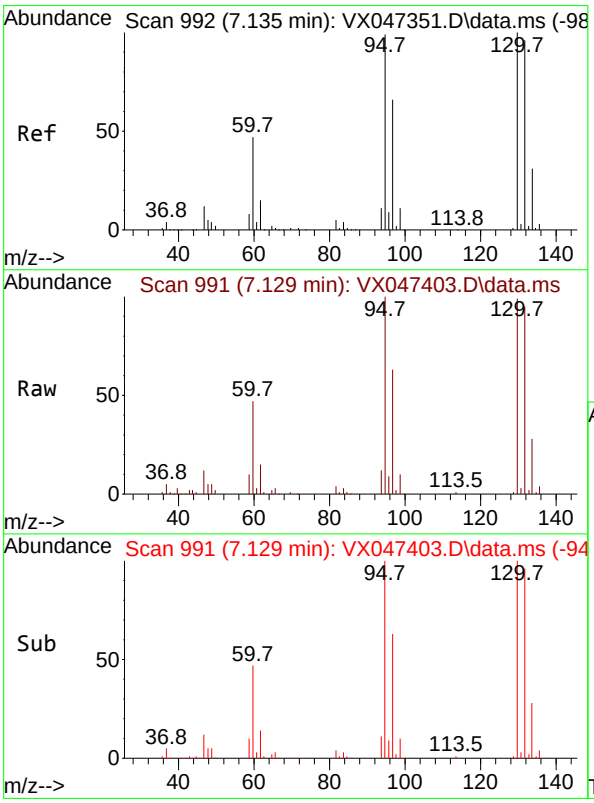
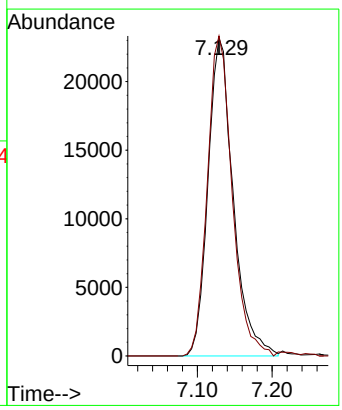
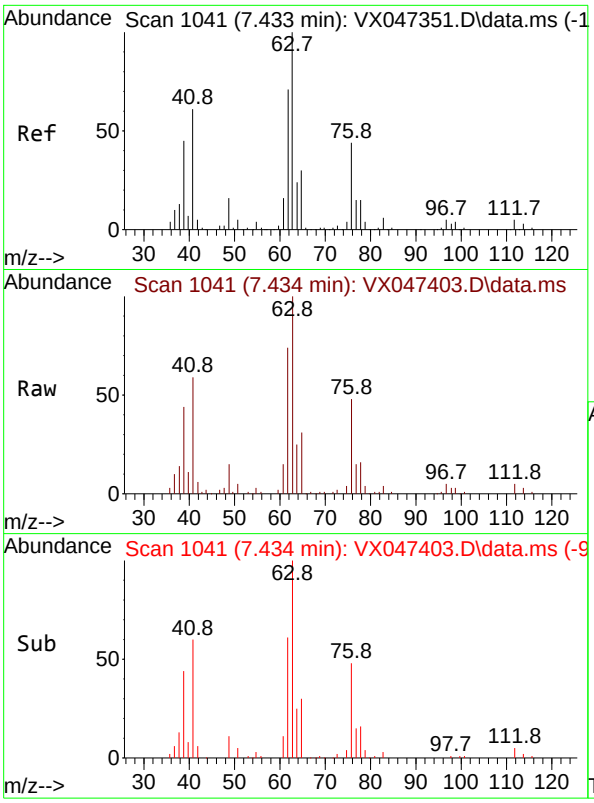


#44
Trichloroethene
Concen: 17.244 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:130 Resp: 54266

Ion	Ratio	Lower	Upper
130	100		
95	100.7	0.0	198.6

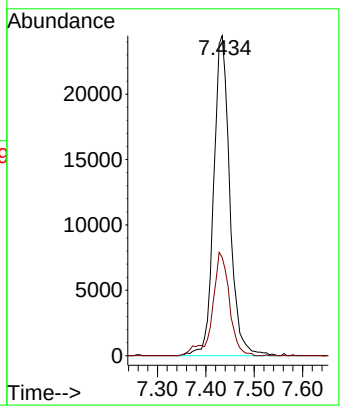




#45
1,2-Dichloropropane
Concen: 18.336 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 63 Resp: 5645

Ion	Ratio	Lower	Upper
63	100		
65	30.7	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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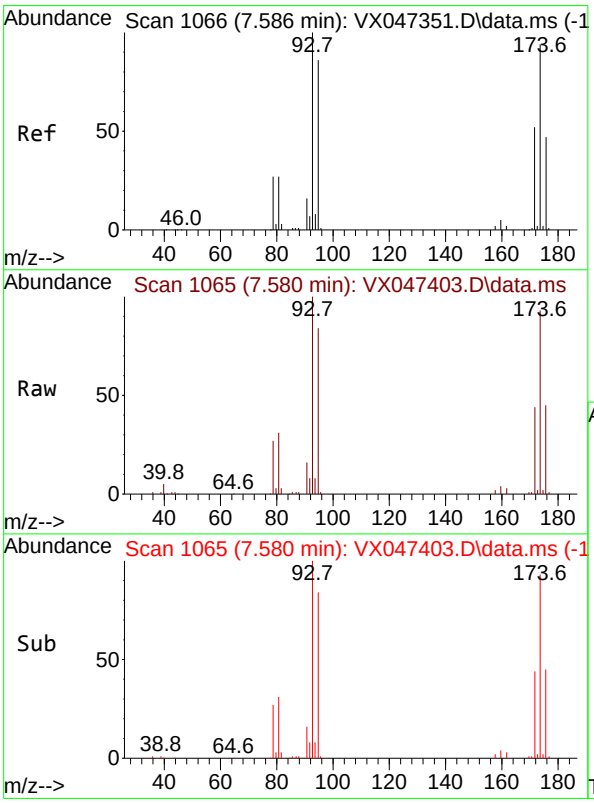
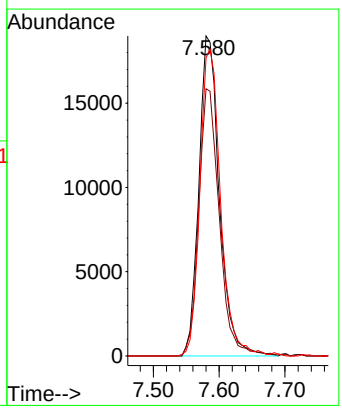
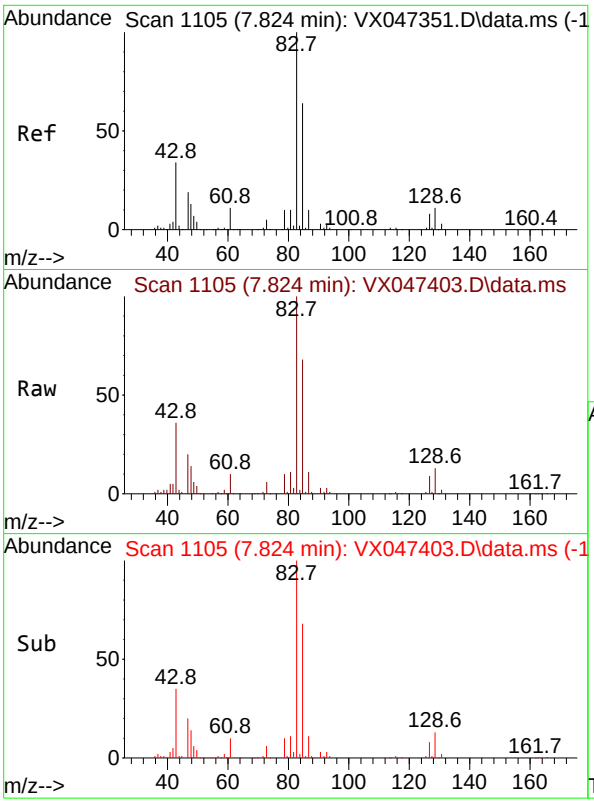


#46
Dibromomethane
Concen: 18.452 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 93 Resp: 41245

Ion	Ratio	Lower	Upper
93	100		
95	84.0	68.0	102.0
174	96.7	75.8	113.6

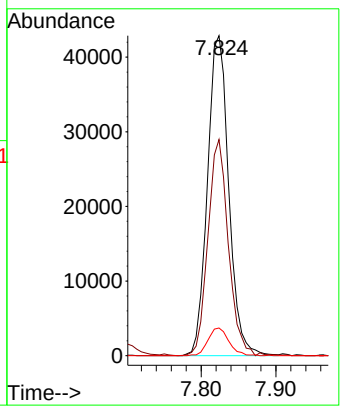




#47
Bromodichloromethane
Concen: 18.324 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 83 Resp: 8491

Ion	Ratio	Lower	Upper
83	100		
85	67.6	51.0	76.6
127	9.6	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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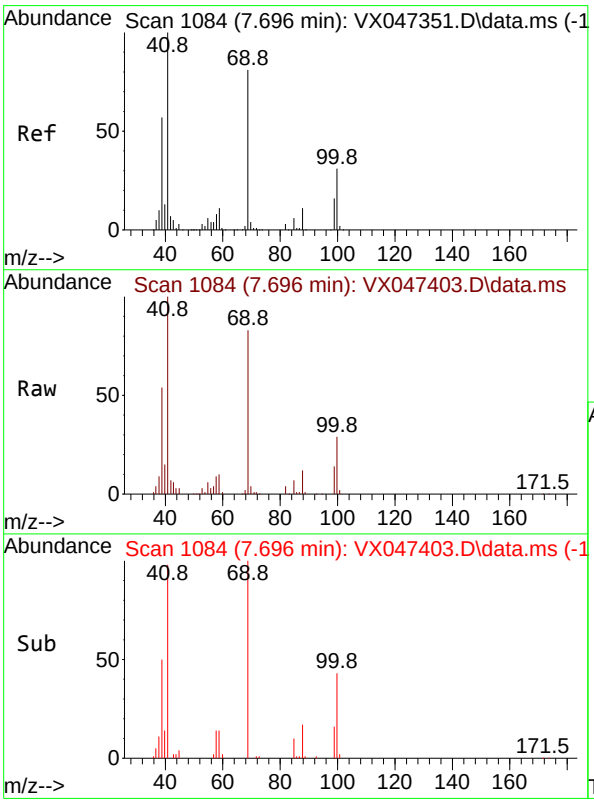
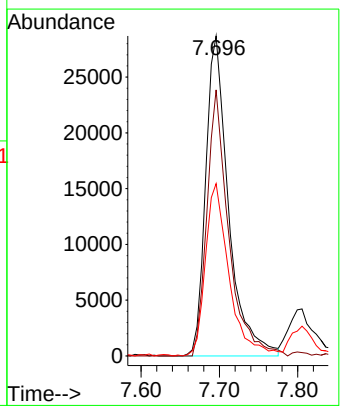
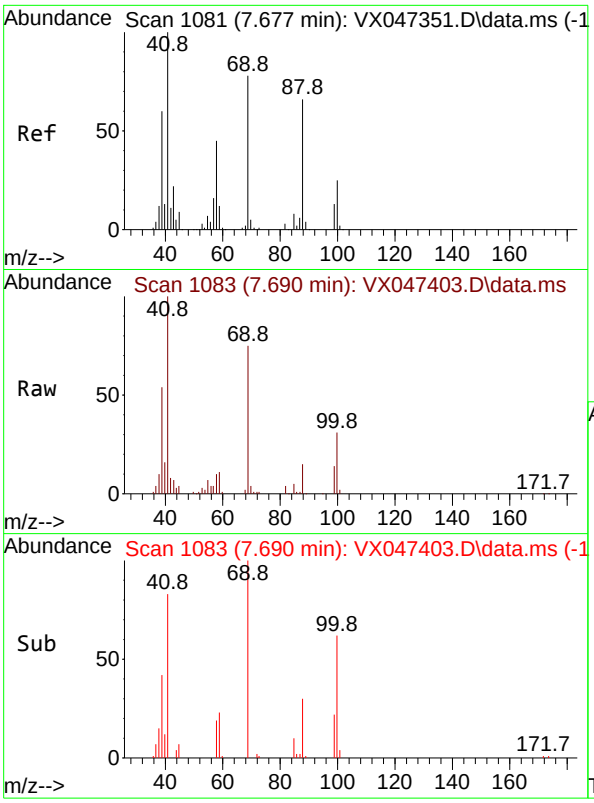


#48
Methyl methacrylate
Concen: 18.294 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 41 Resp: 58149

Ion	Ratio	Lower	Upper
41	100		
69	79.1	65.0	97.4
39	55.7	45.7	68.5





#49
1,4-Dioxane
Concen: 385.469 ug/l
RT: 7.690 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 88 Resp: 1191

Ion	Ratio	Lower	Upper
88	100		
43	36.9	32.4	48.6
58	71.5	56.9	85.3

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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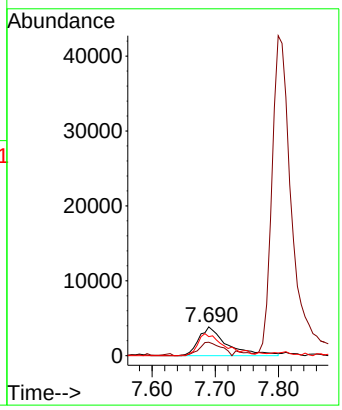
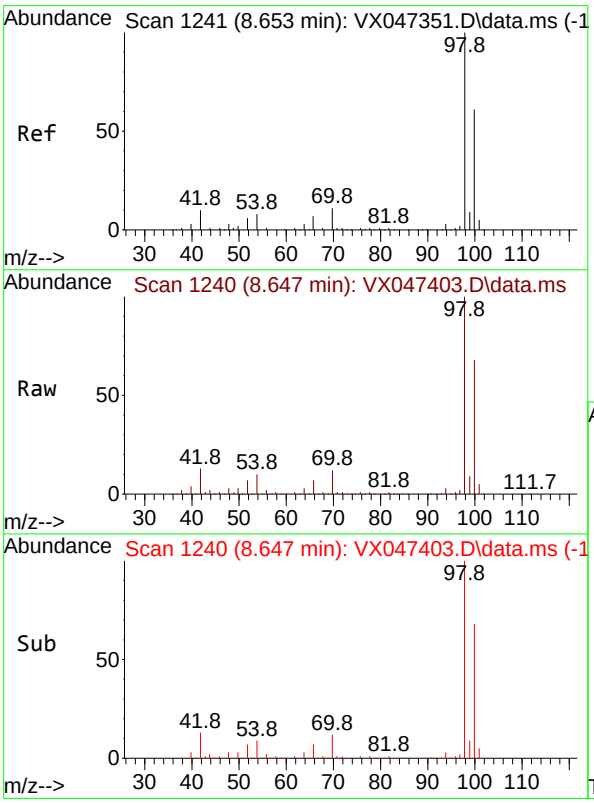
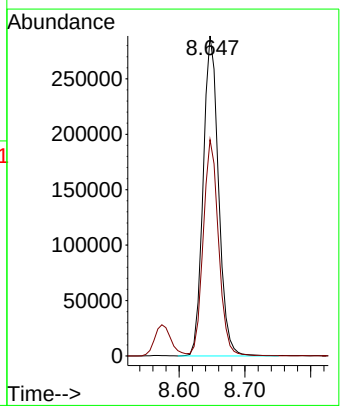


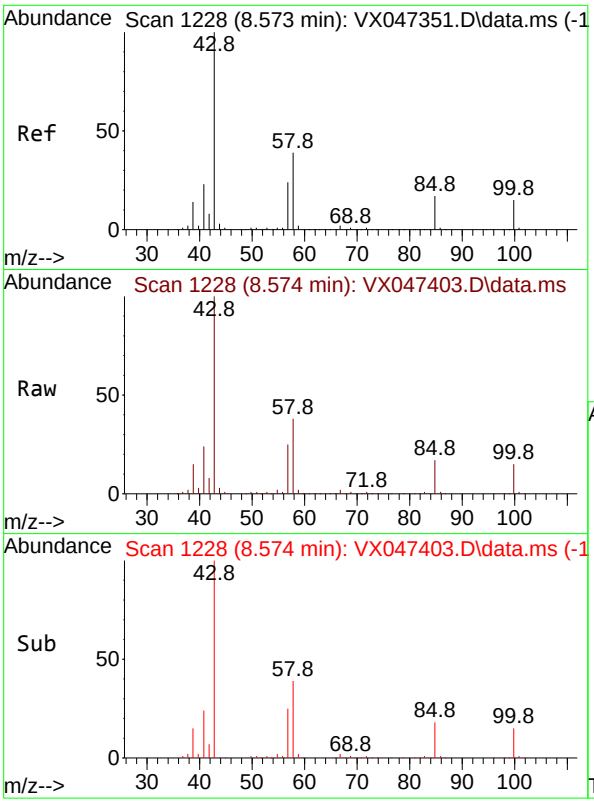


#50
Toluene-d8
Concen: 50.555 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 98 Resp: 470012

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.9	80.9

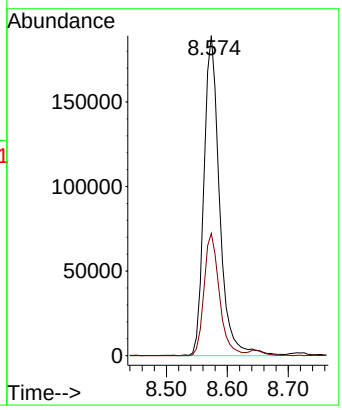




#51
4-Methyl-2-Pentanone
Concen: 95.733 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 33735

Ion	Ratio	Lower	Upper
43	100		
58	37.6	31.2	46.8



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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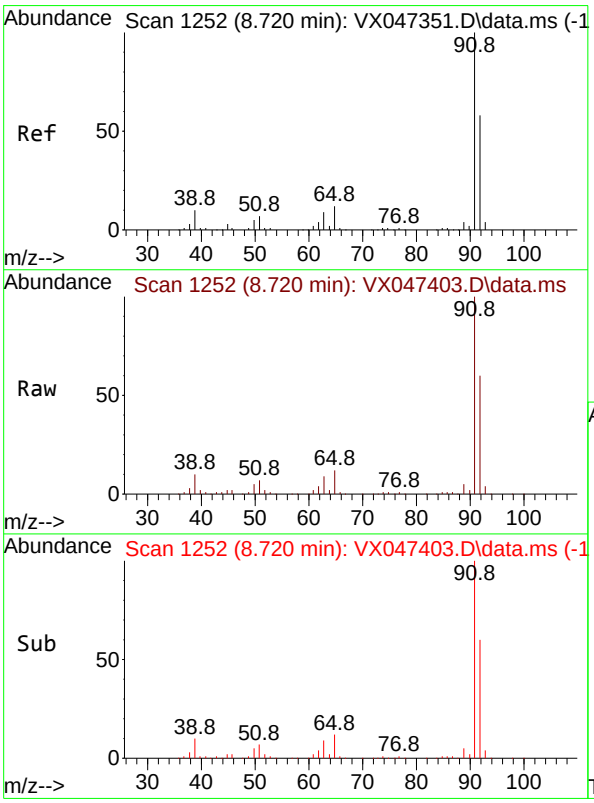
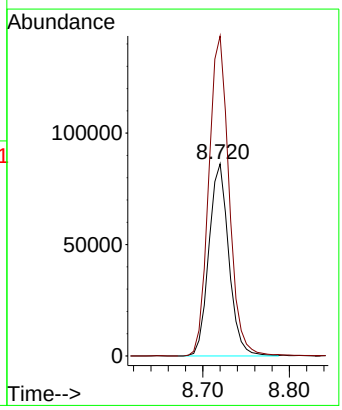
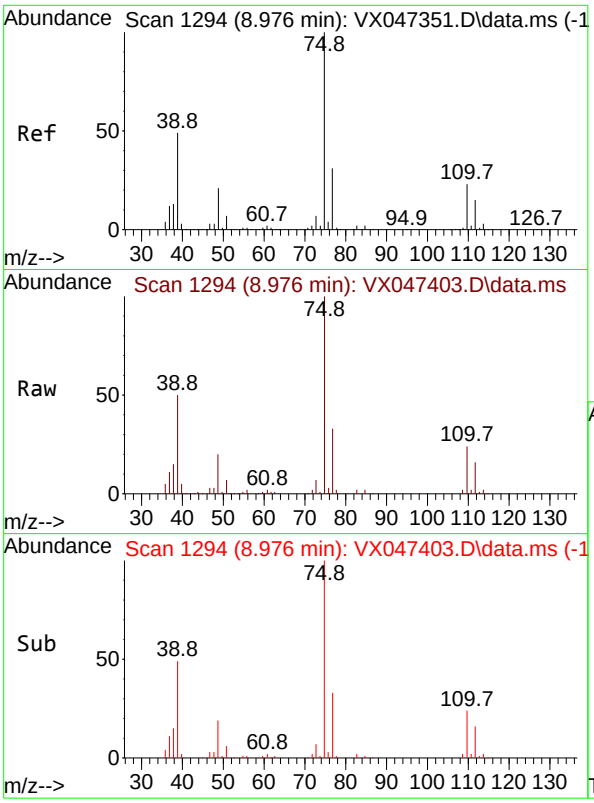


#52
Toluene
Concen: 18.121 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 92 Resp: 137617

Ion	Ratio	Lower	Upper
92	100		
91	170.4	136.3	204.5

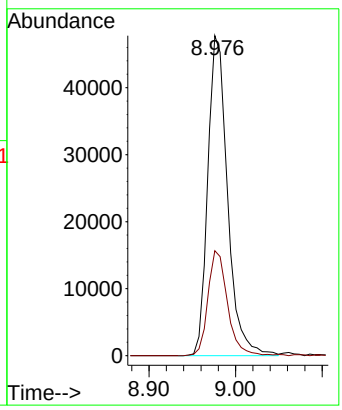




#53
t-1,3-Dichloropropene
Concen: 18.711 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 75 Resp: 7567

Ion	Ratio	Lower	Upper
75	100		
77	32.8	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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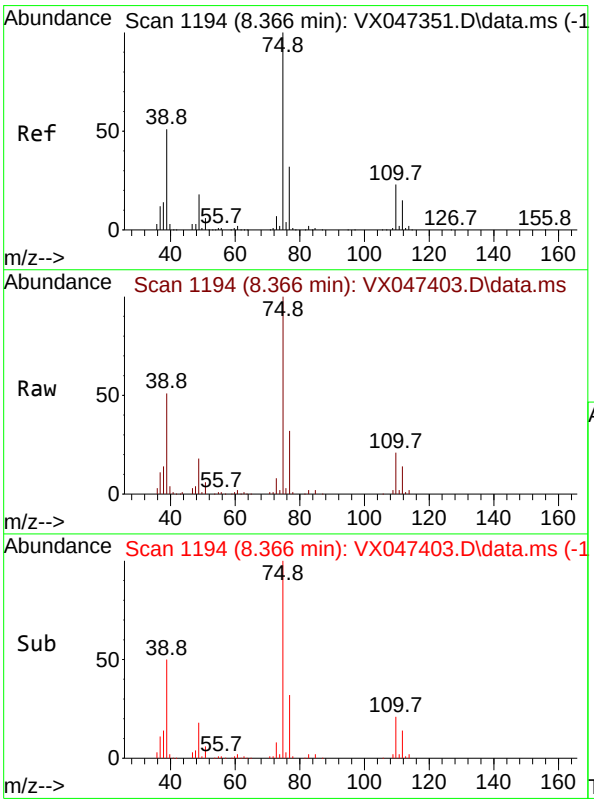
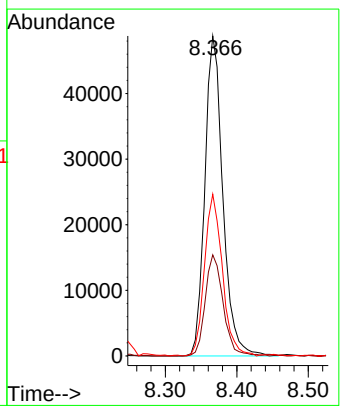
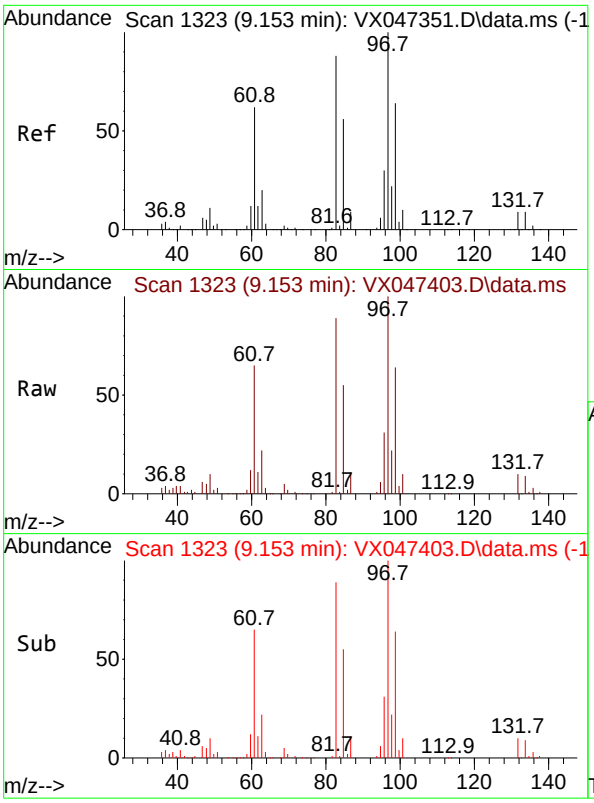


#54
cis-1,3-Dichloropropene
Concen: 18.637 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 75 Resp: 85316

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4
39	50.3	40.9	61.3

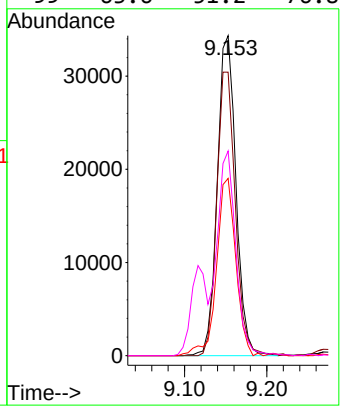




#55
1,1,2-Trichloroethane
Concen: 18.834 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 97 Resp: 5430

Ion	Ratio	Lower	Upper
97	100		
83	88.6	70.6	106.0
85	55.4	44.7	67.1
99	63.6	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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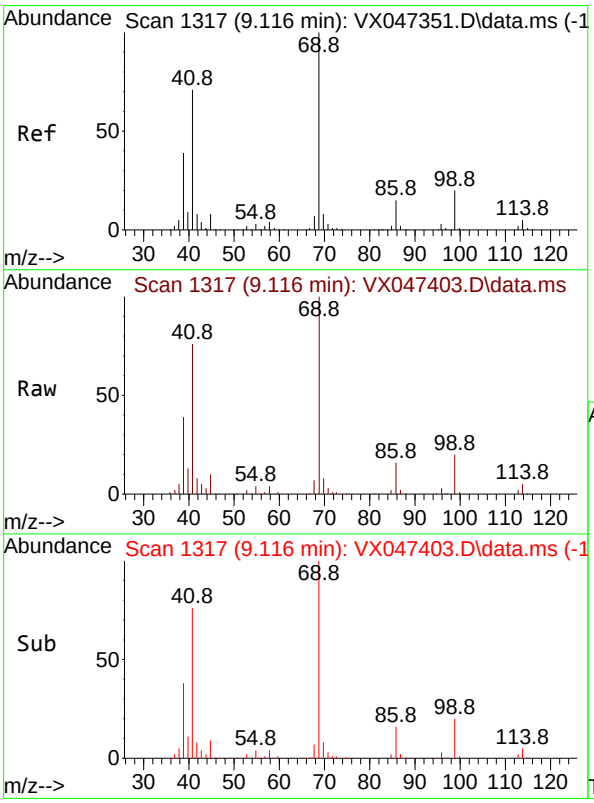
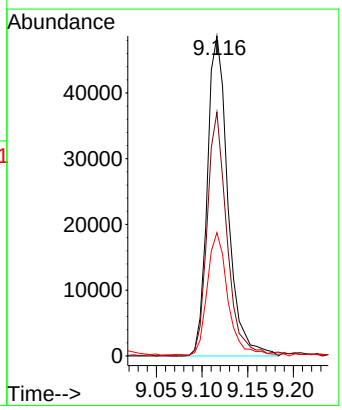
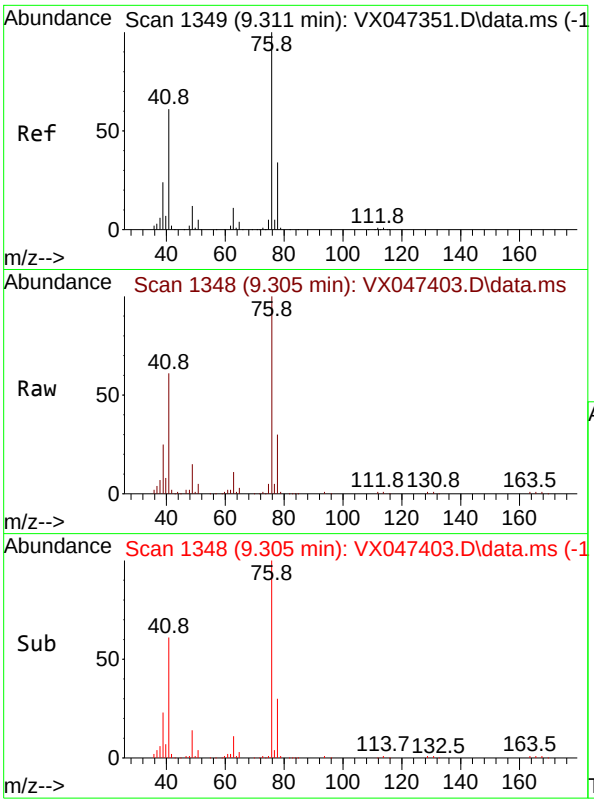


#56
Ethyl methacrylate
Concen: 17.930 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 69 Resp: 76225

Ion	Ratio	Lower	Upper
69	100		
41	72.6	55.3	82.9
39	39.3	30.2	45.2

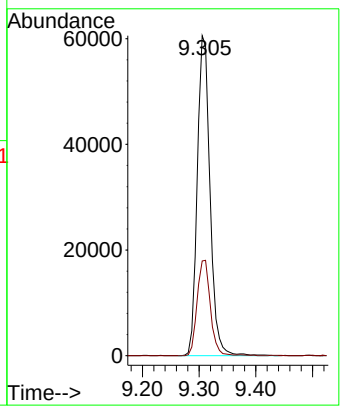




#57
1,3-Dichloropropane
Concen: 19.235 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 76 Resp: 9450

Ion	Ratio	Lower	Upper
76	100		
78	30.9	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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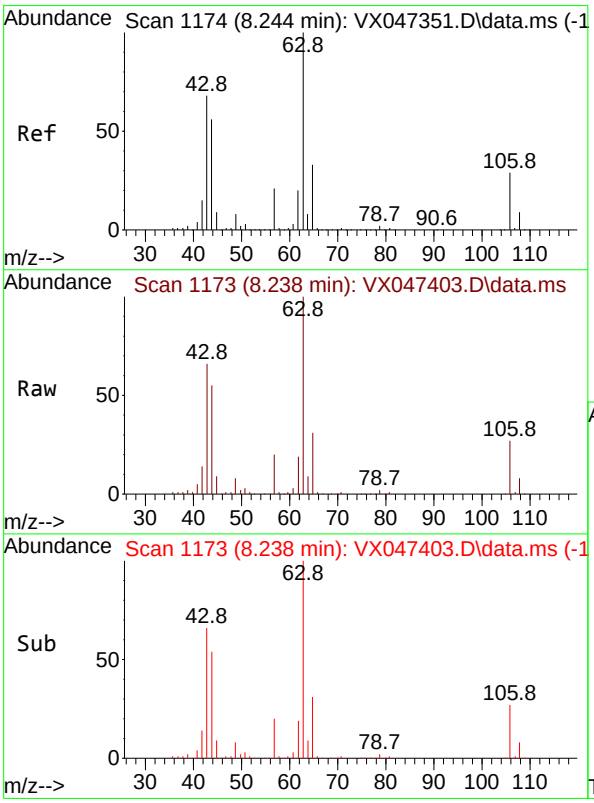
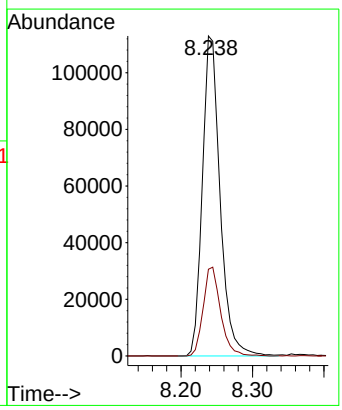
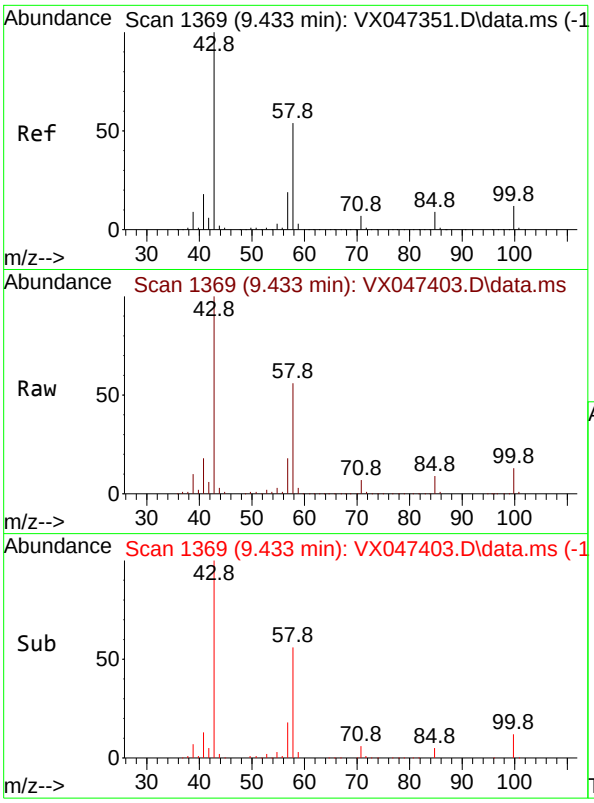


#58
2-Chloroethyl Vinyl ether
Concen: 100.929 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 63 Resp: 194420

Ion	Ratio	Lower	Upper
63	100		
106	27.3	22.8	34.2





#59
2-Hexanone
Concen: 97.292 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 23715

Ion	Ratio	Lower	Upper
43	100		
58	53.6	26.9	80.7

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Manual Integrations
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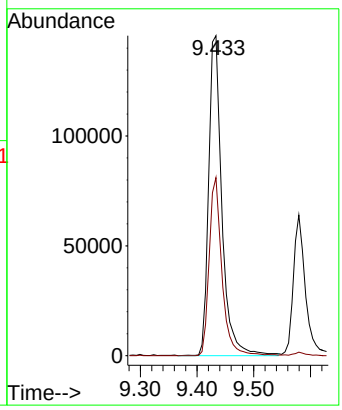
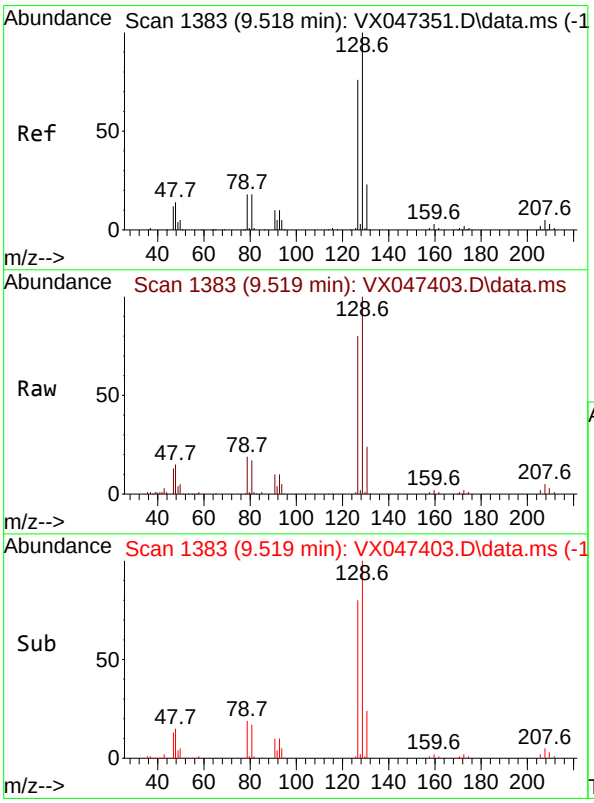
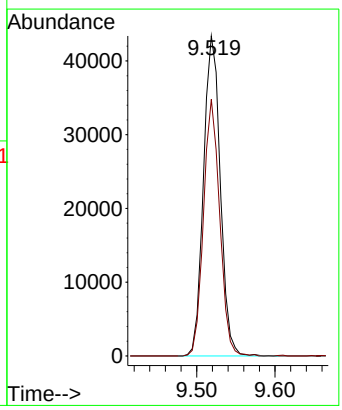


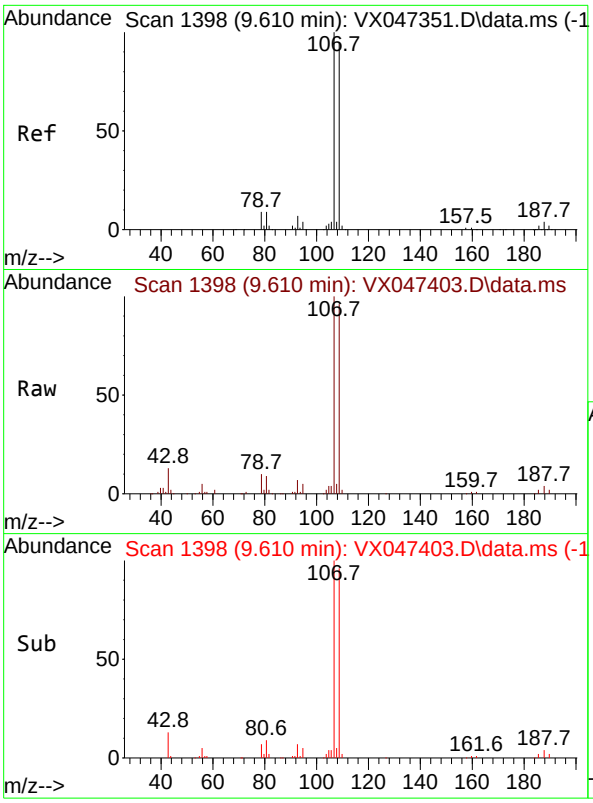


#60
Dibromochloromethane
Concen: 18.814 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:129 Resp: 64471

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.9	116.6

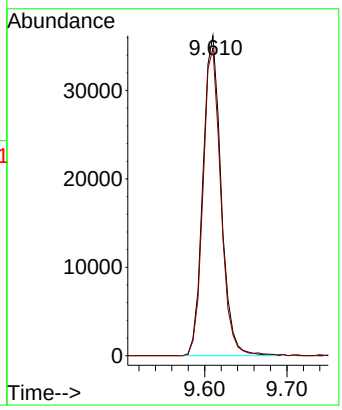




#61
1,2-Dibromoethane
Concen: 18.705 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:107 Resp: 5561

Ion	Ratio	Lower	Upper
107	100		
109	94.5	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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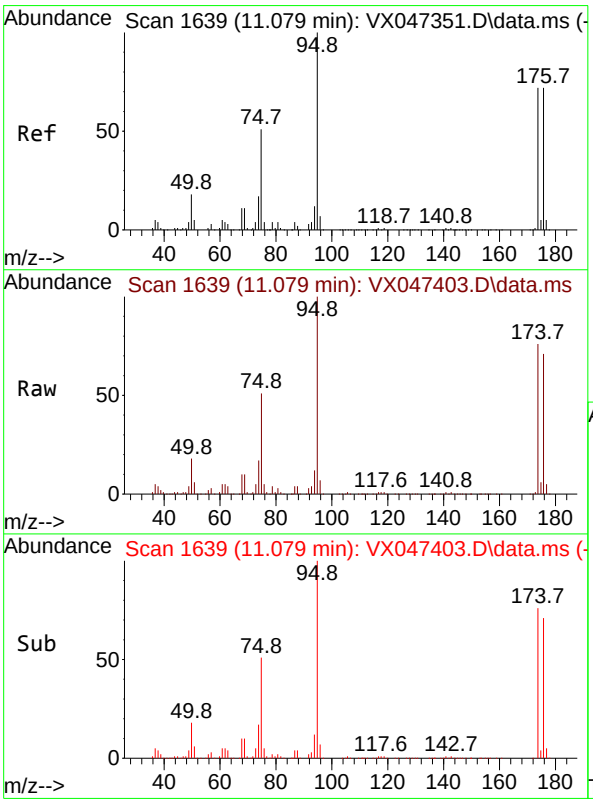
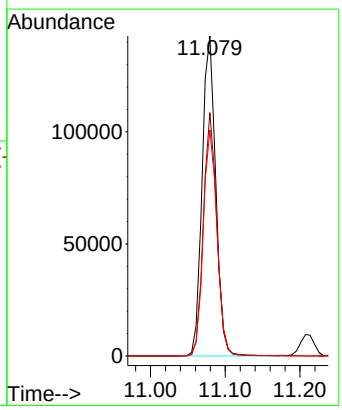
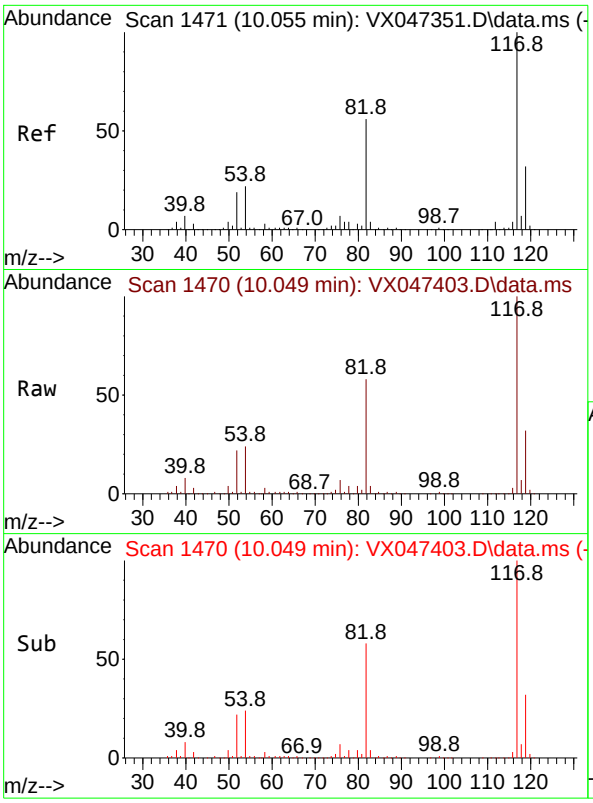


#62
4-Bromofluorobenzene
Concen: 52.762 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 95 Resp: 181013

Ion	Ratio	Lower	Upper
95	100		
174	74.6	0.0	148.0
176	71.1	0.0	145.4

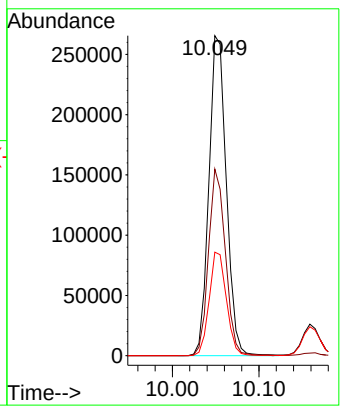




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:117 Resp: 37096

Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.0	67.4
119	32.4	25.8	38.8



Instrument :
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ClientSampleId :
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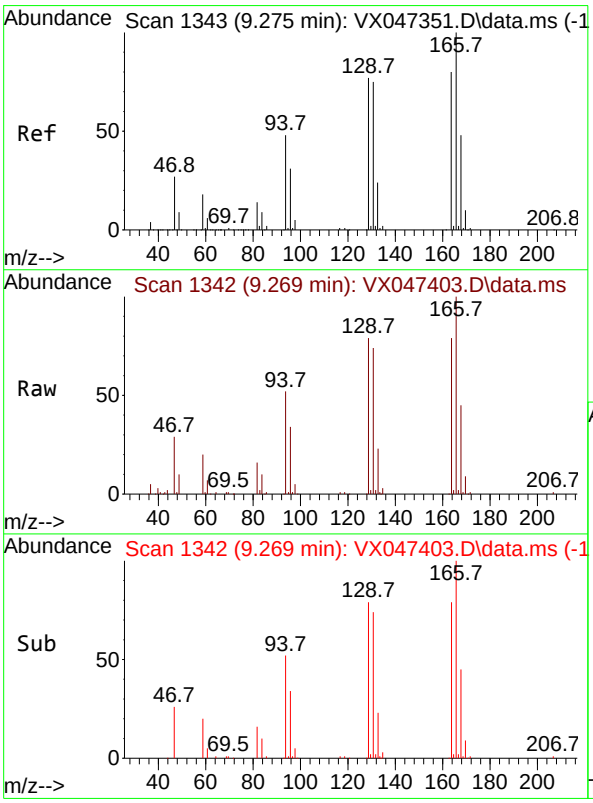
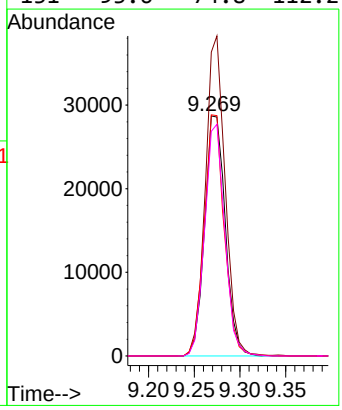
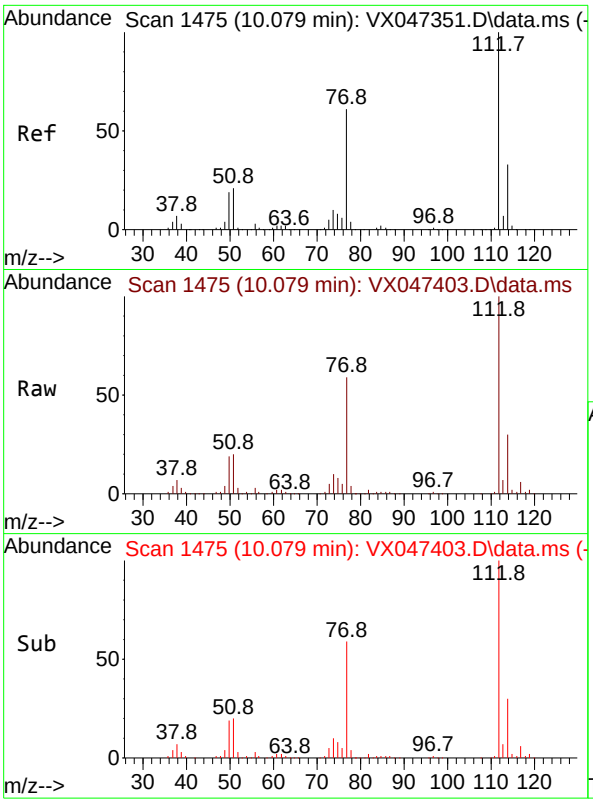


#64
Tetrachloroethene
Concen: 16.708 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:164 Resp: 44832

Ion	Ratio	Lower	Upper
164	100		
166	126.6	100.3	150.5
129	100.5	77.7	116.5
131	93.6	74.8	112.2

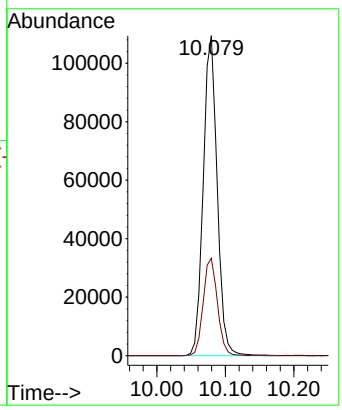




#65
Chlorobenzene
Concen: 17.585 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:112 Resp: 15502

Ion	Ratio	Lower	Upper
112	100		
114	30.5	26.4	39.6



Instrument :
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ClientSampleId :
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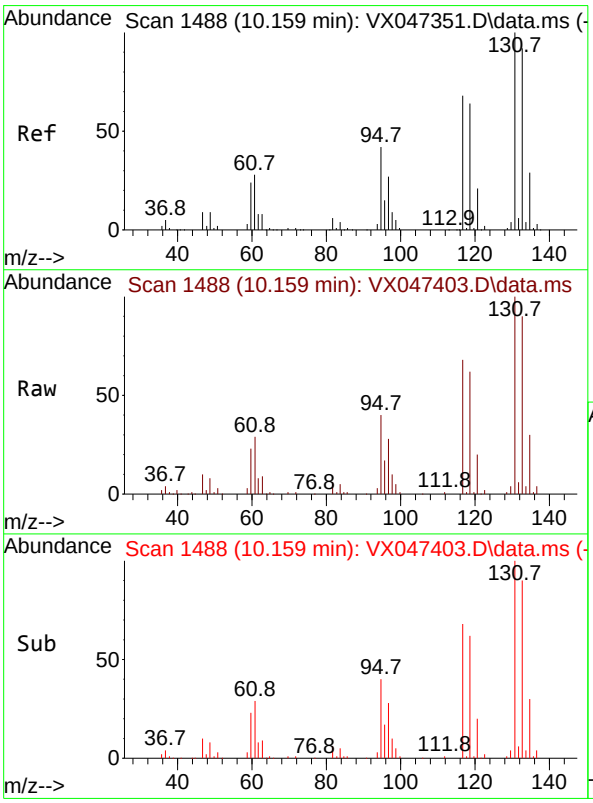
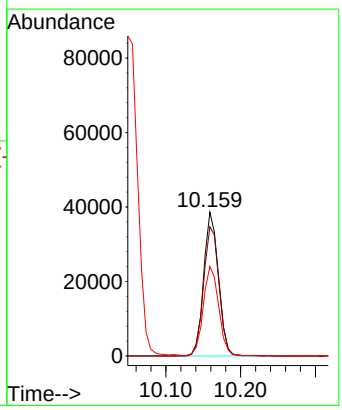
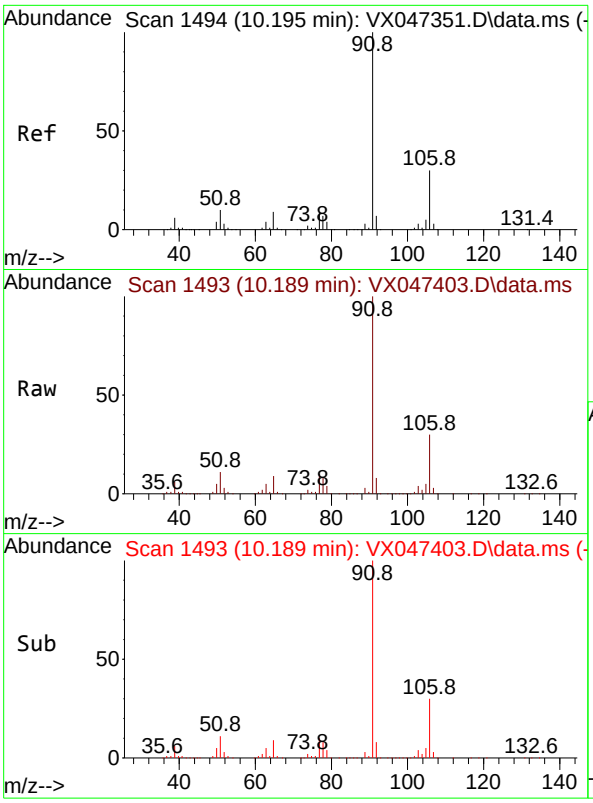


#66
1,1,1,2-Tetrachloroethane
Concen: 17.822 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:131 Resp: 53110

Ion	Ratio	Lower	Upper
131	100		
133	93.3	47.6	142.9
119	65.0	32.3	96.8





#67
Ethyl Benzene
Concen: 17.094 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 91 Resp: 25937

Ion	Ratio	Lower	Upper
91	100		
106	29.8	24.4	36.6

Instrument :
MSVOA_X
ClientSampleId :
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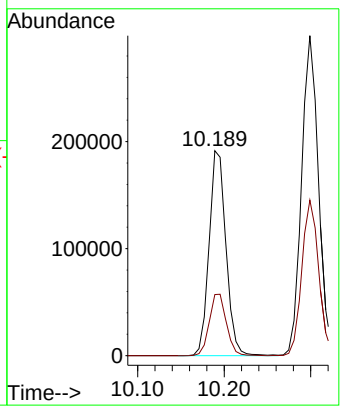
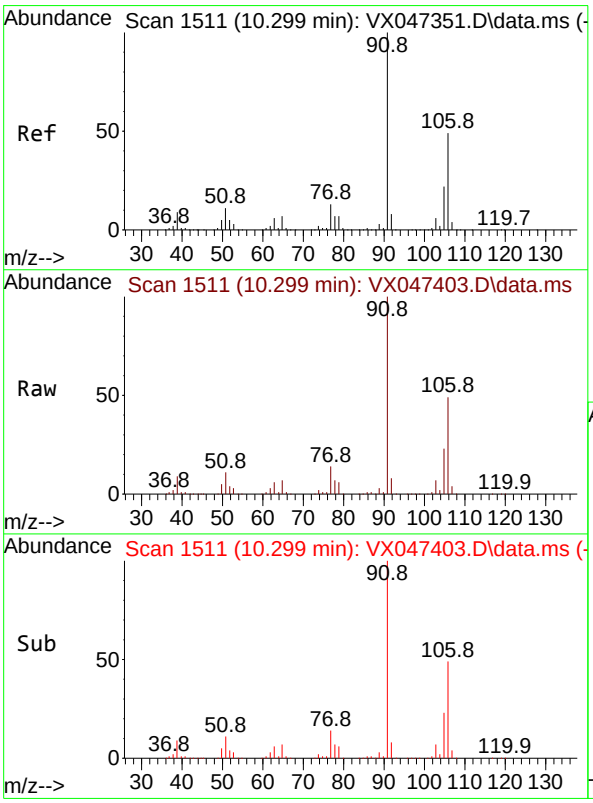
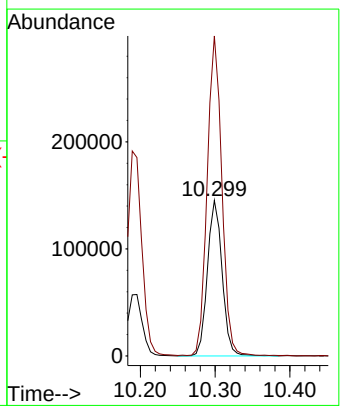


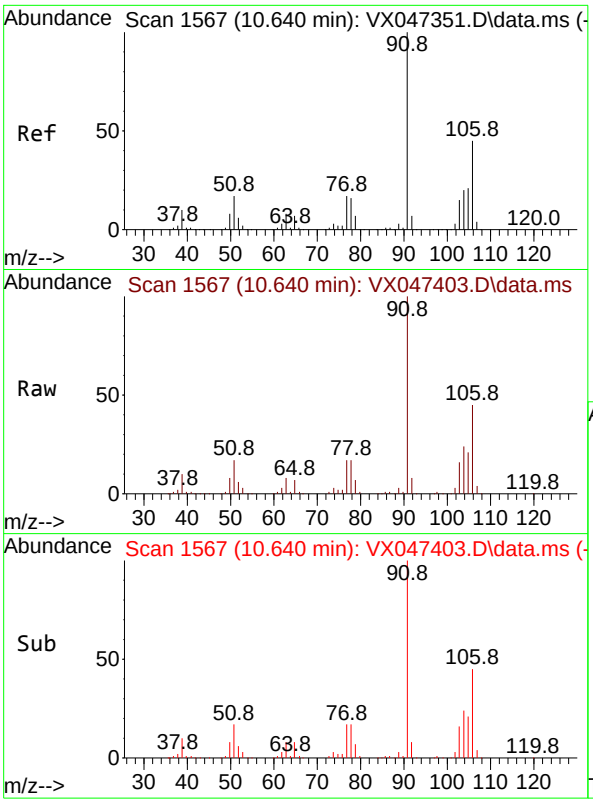


#68
m/p-Xylenes
Concen: 35.129 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:106 Resp: 198745

Ion	Ratio	Lower	Upper
106	100		
91	205.9	164.7	247.1

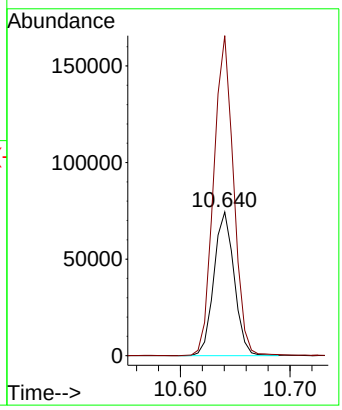




#69
o-Xylene
Concen: 17.591 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:106 Resp: 9577

Ion	Ratio	Lower	Upper
106	100		
91	219.2	110.6	331.8



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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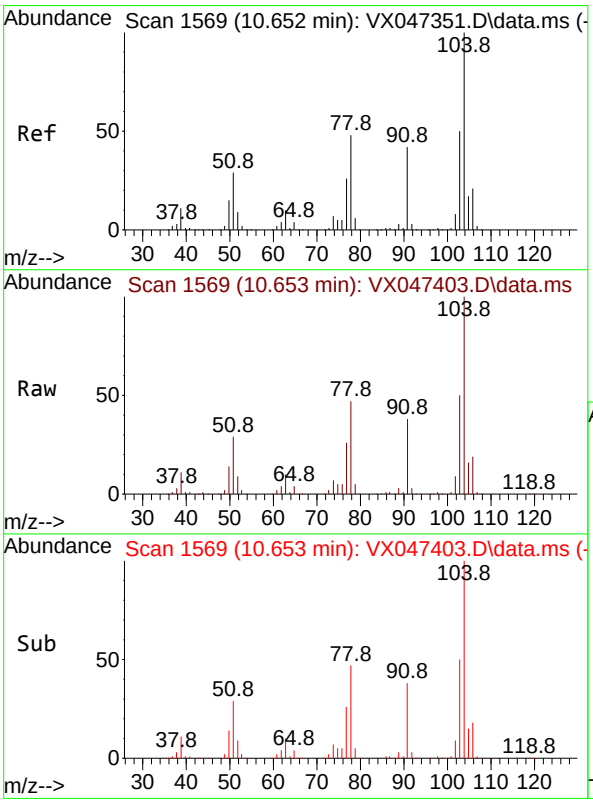
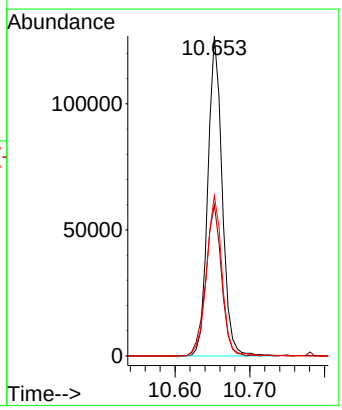
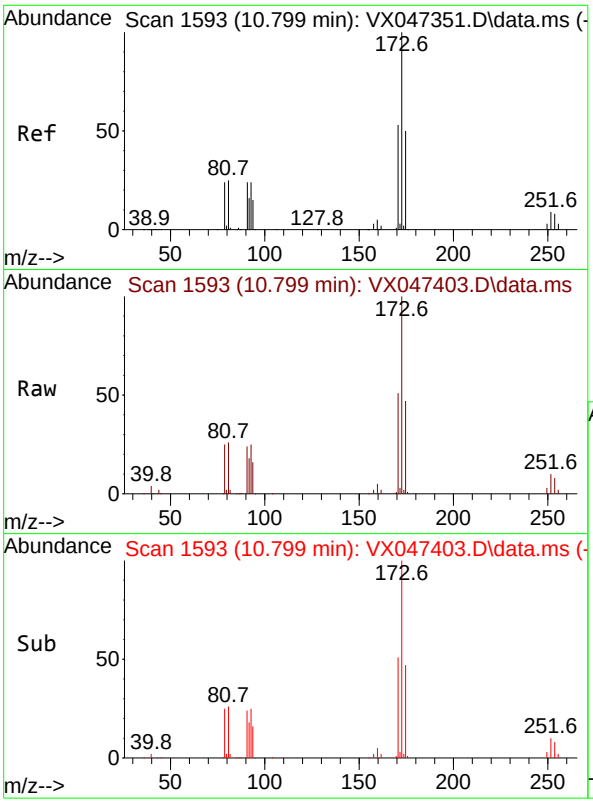


#70
Styrene
Concen: 18.349 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:104 Resp: 168799

Ion	Ratio	Lower	Upper
104	100		
78	51.9	41.8	62.8
103	53.8	43.6	65.4

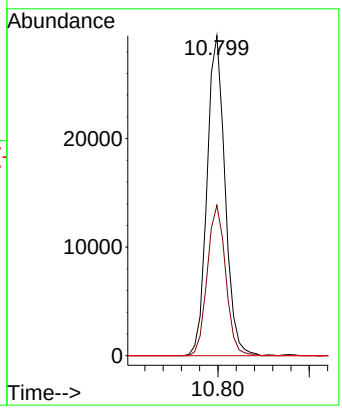




#71
Bromoform
Concen: 17.946 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:173 Resp: 4017

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.4	73.4
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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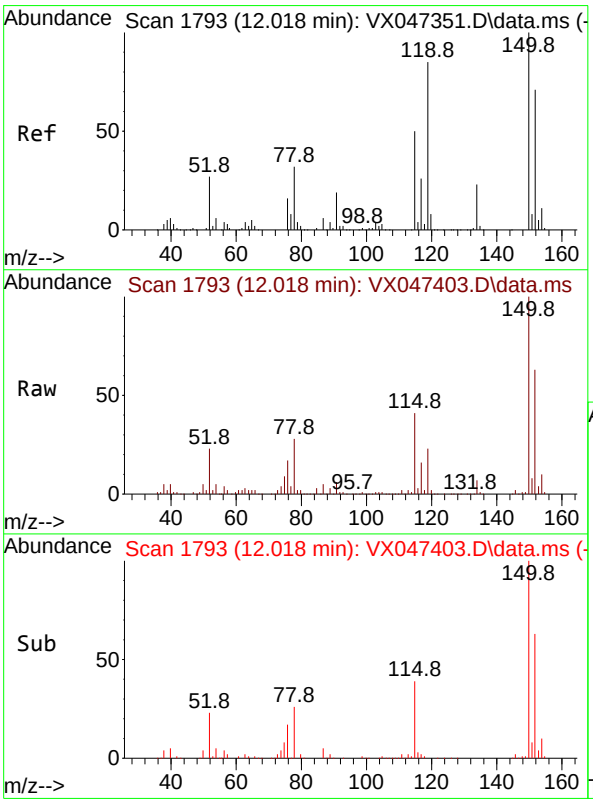
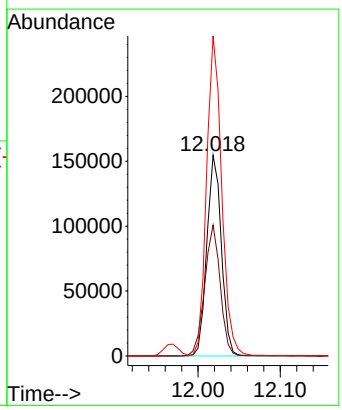
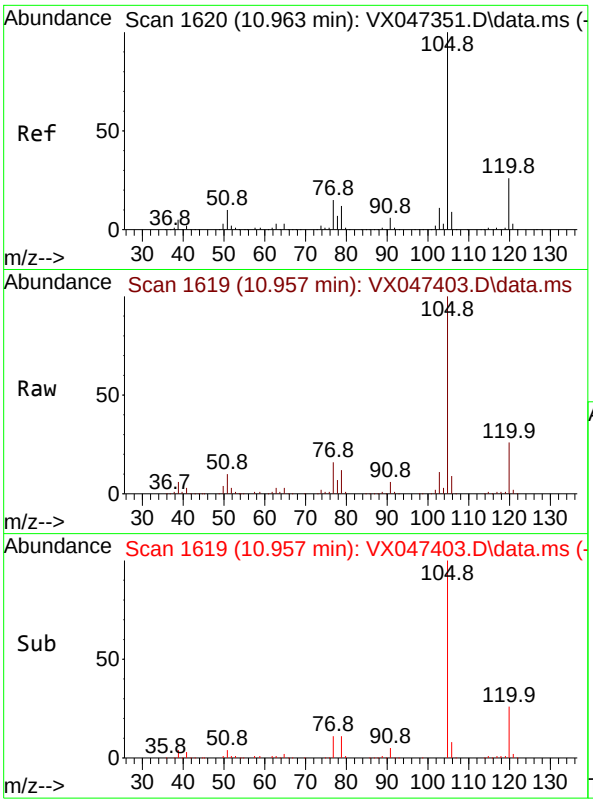


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:152 Resp: 189862

Ion	Ratio	Lower	Upper
152	100		
115	69.8	44.6	133.8
150	165.4	0.0	349.8

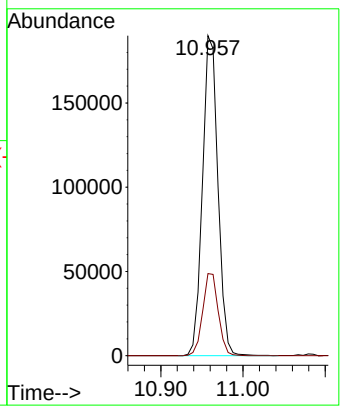




#73
Isopropylbenzene
Concen: 16.649 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:105 Resp: 24737

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.9	38.6



Instrument :
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ClientSampleId :
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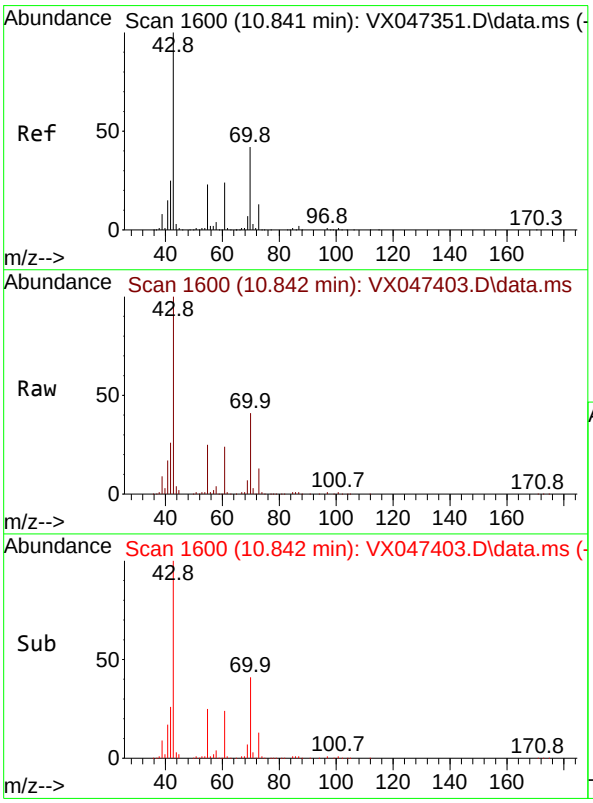
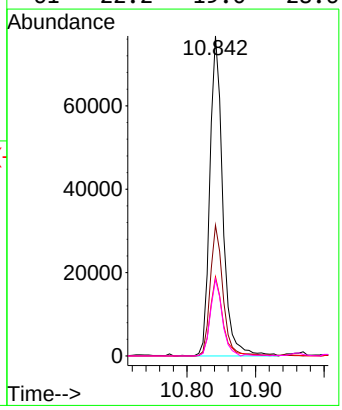
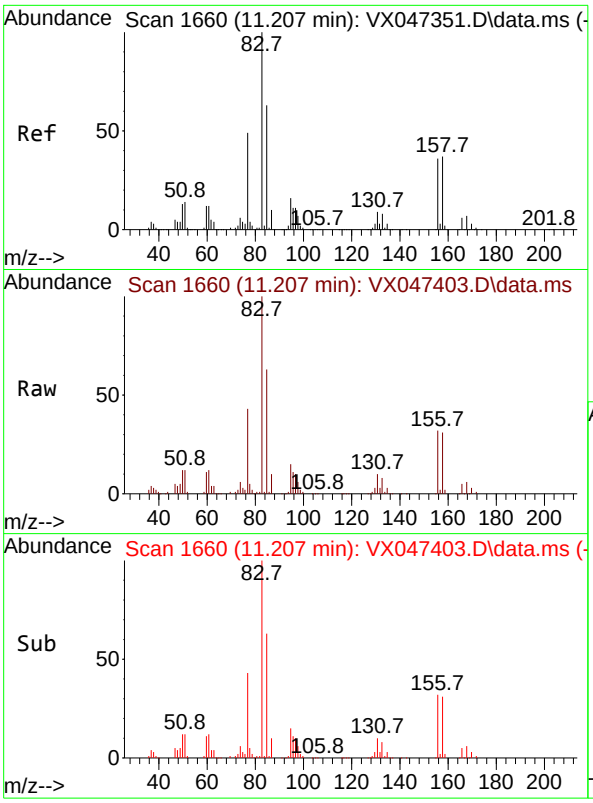


#74
N-amyl acetate
Concen: 17.893 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 100954

Ion	Ratio	Lower	Upper
43	100		
70	40.0	33.1	49.7
55	24.3	19.0	28.6
61	22.2	19.0	28.6

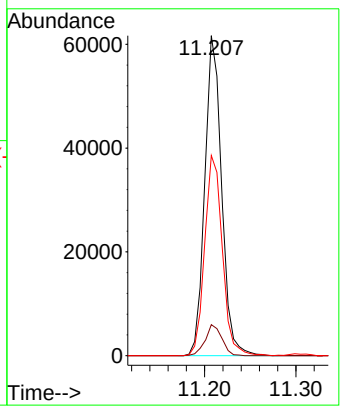




#75
1,1,2,2-Tetrachloroethane
Concen: 18.037 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 83 Resp: 7868

Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.0	15.0
85	65.6	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
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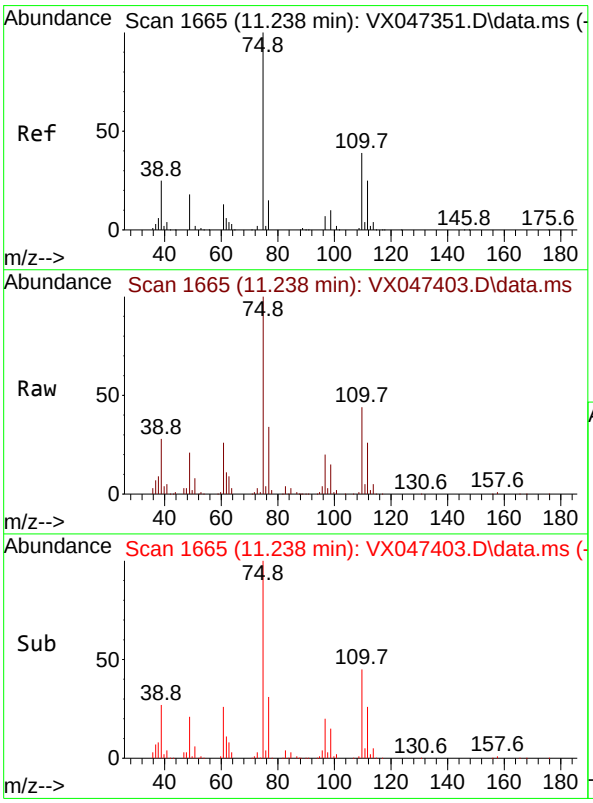
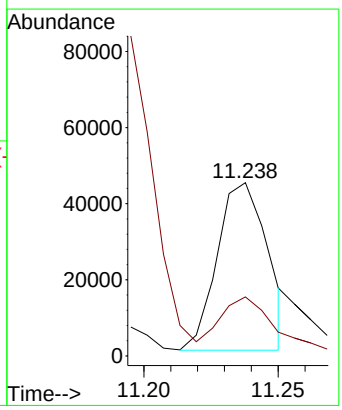
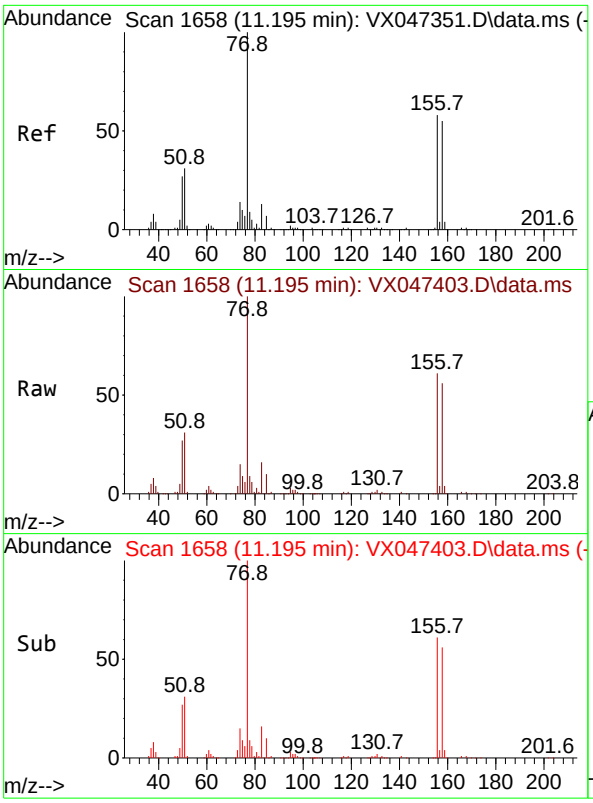


#76
1,2,3-Trichloropropane
Concen: 16.468 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 75 Resp: 57347

Ion	Ratio	Lower	Upper
75	100		
77	41.4	19.4	58.2

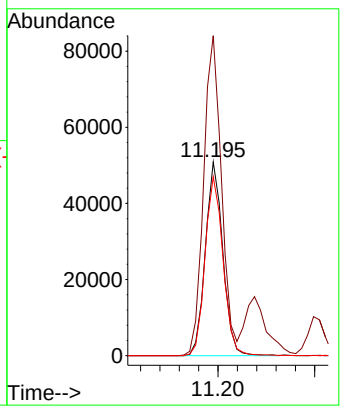




#77
Bromobenzene
Concen: 17.636 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:156 Resp: 6398

Ion	Ratio	Lower	Upper
156	100		
77	168.8	86.3	258.9
158	95.4	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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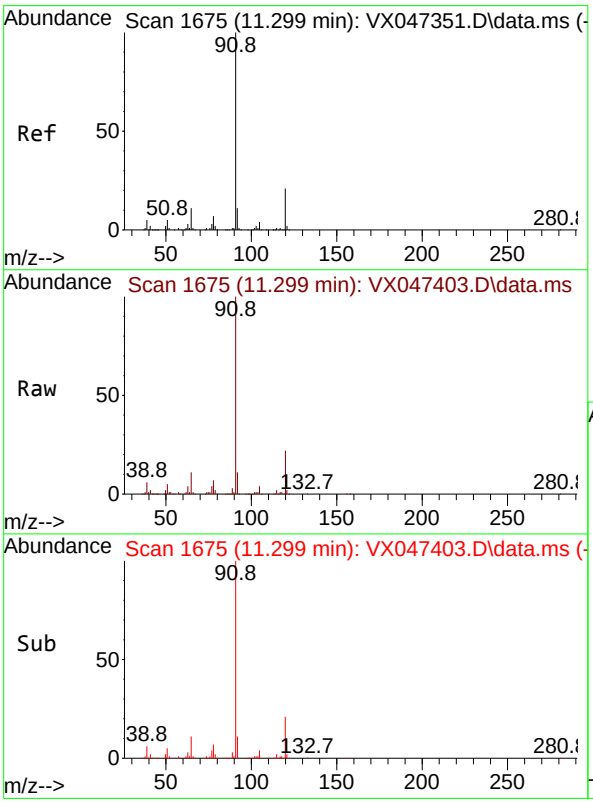
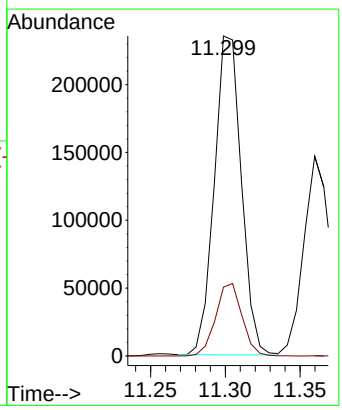
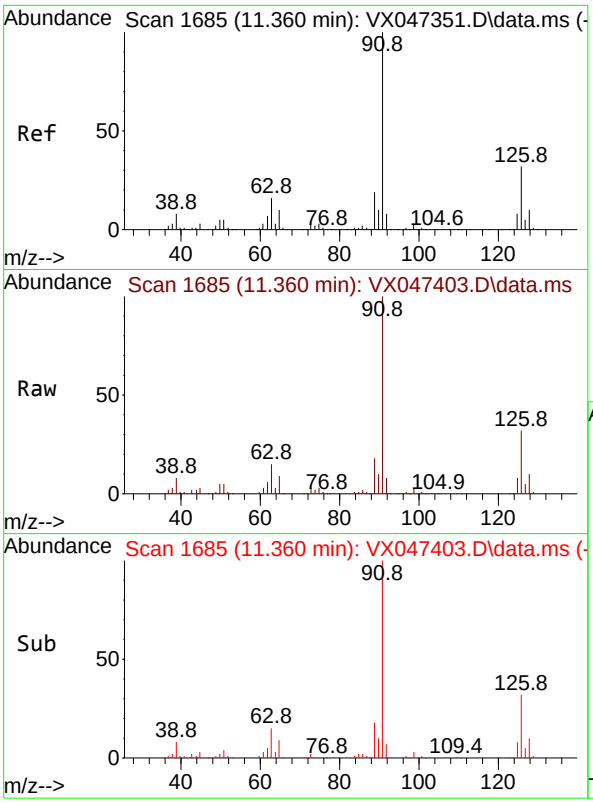


#78
n-propylbenzene
Concen: 16.657 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 91 Resp: 295566

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0

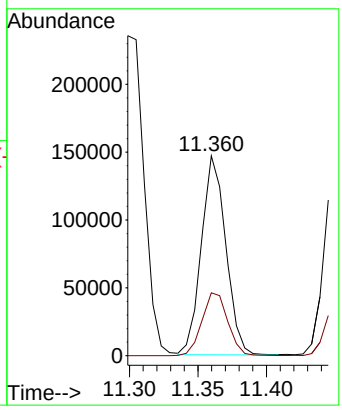




#79
2-Chlorotoluene
Concen: 17.013 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 91 Resp: 18249

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.7	50.1



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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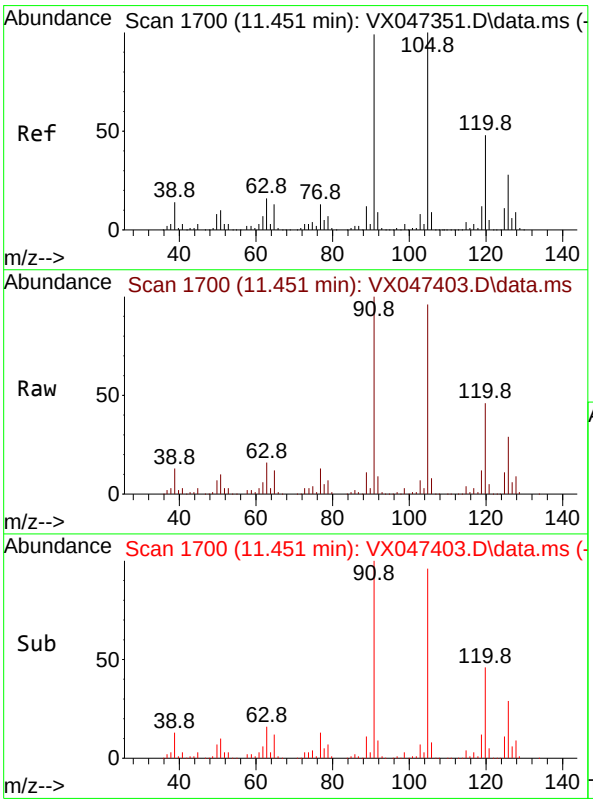
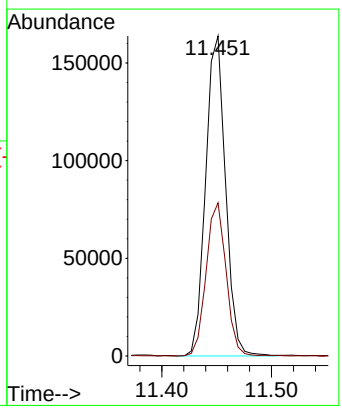
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

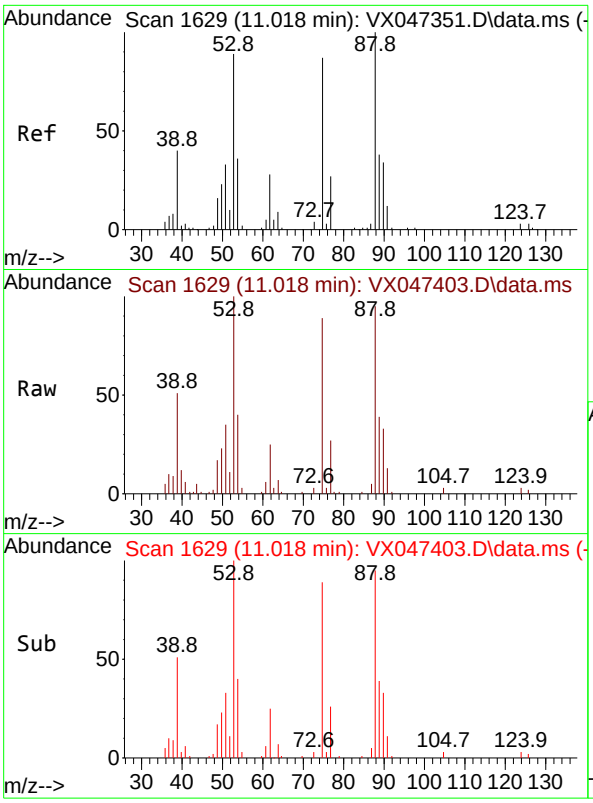


#80
1,3,5-Trimethylbenzene
Concen: 16.900 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:105 Resp: 206597

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.9	71.7

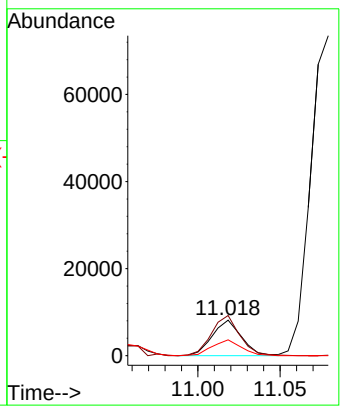




#81
trans-1,4-Dichloro-2-butene
Concen: 18.529 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 75 Resp: 1013

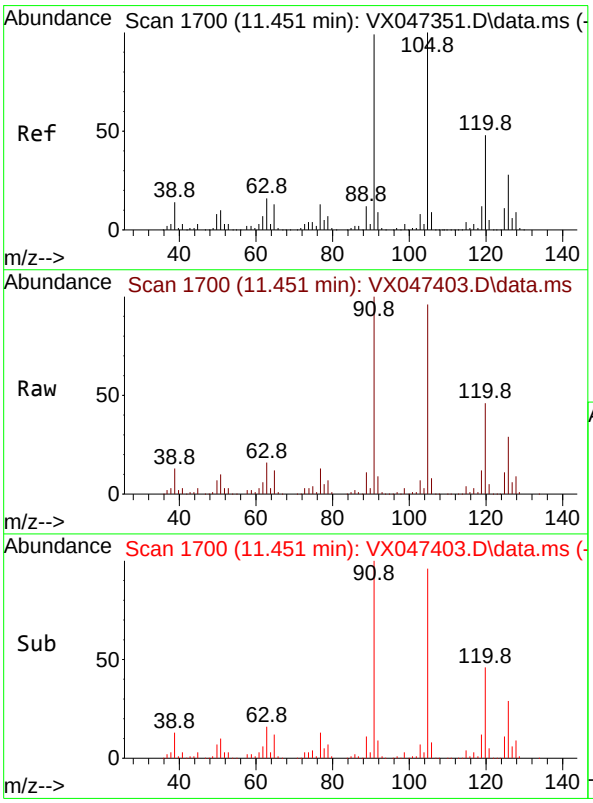
Ion	Ratio	Lower	Upper
75	100		
53	109.6	85.2	127.8
89	44.5	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Manual Integrations APPROVED

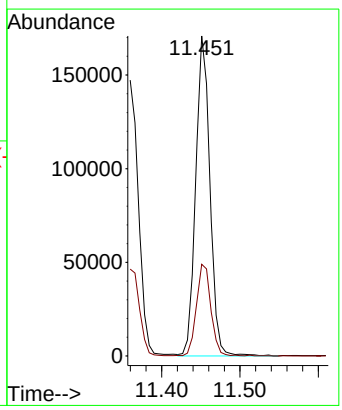
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

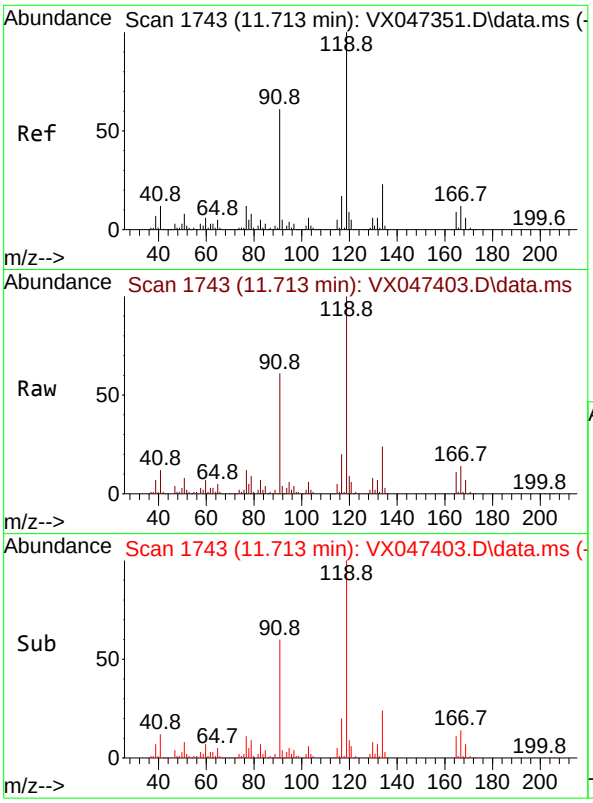


#82
4-Chlorotoluene
Concen: 17.112 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 91 Resp: 216373

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.4	43.0

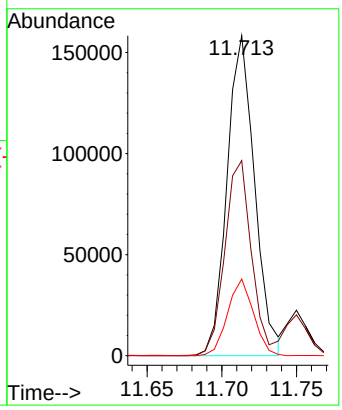




#83
tert-Butylbenzene
Concen: 16.671 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:119 Resp: 20332

Ion	Ratio	Lower	Upper
119	100		
91	58.3	29.1	87.4
134	22.5	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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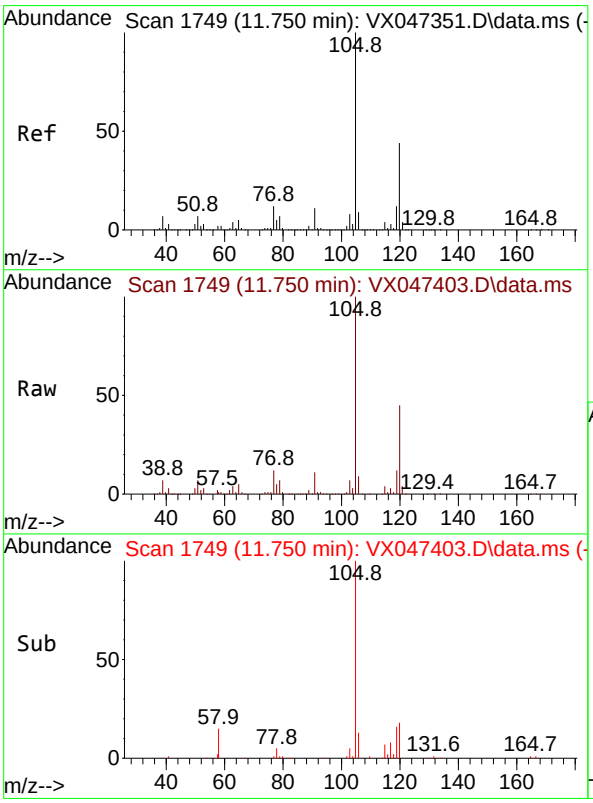
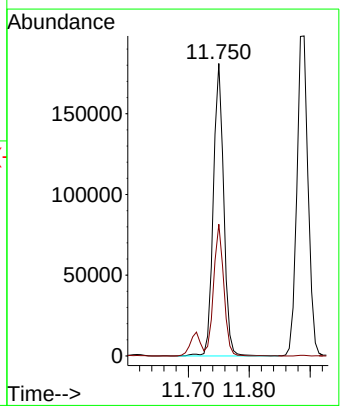
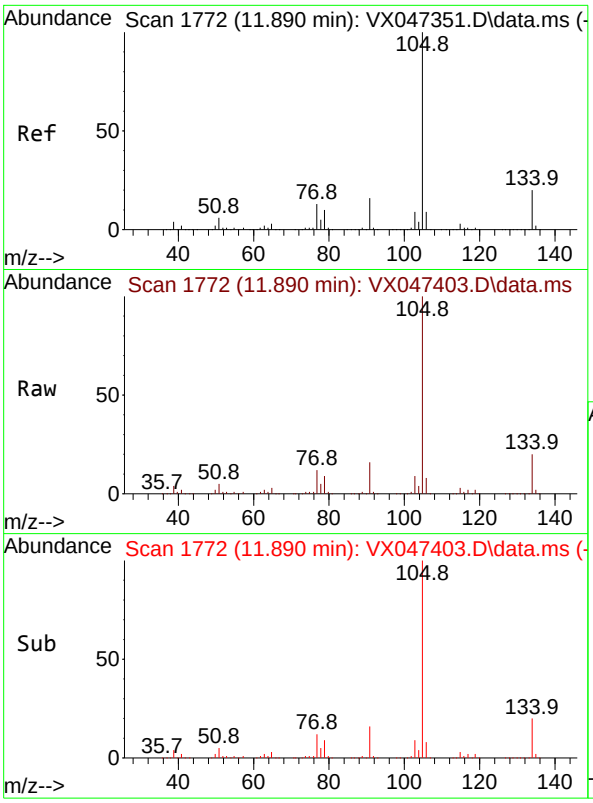


#84
1,2,4-Trimethylbenzene
Concen: 17.518 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:105 Resp: 214157

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.9	65.7

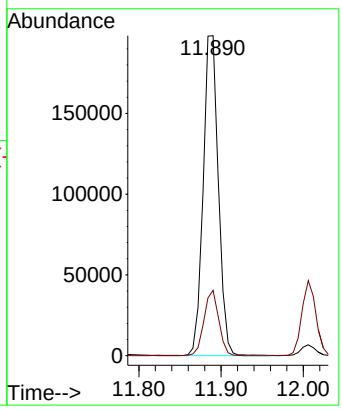




#85
sec-Butylbenzene
Concen: 16.867 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:105 Resp: 25497

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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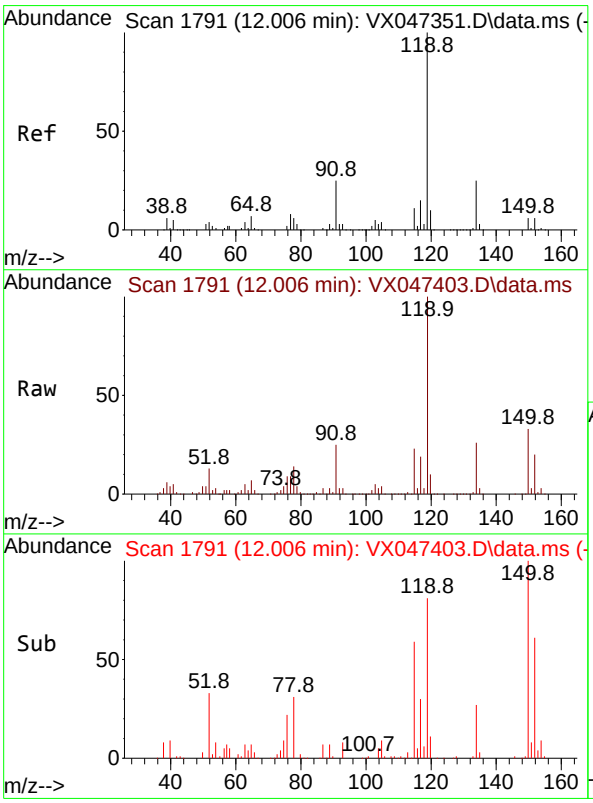
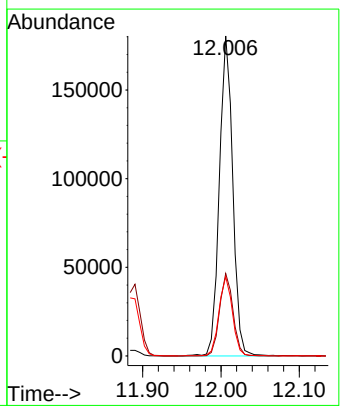
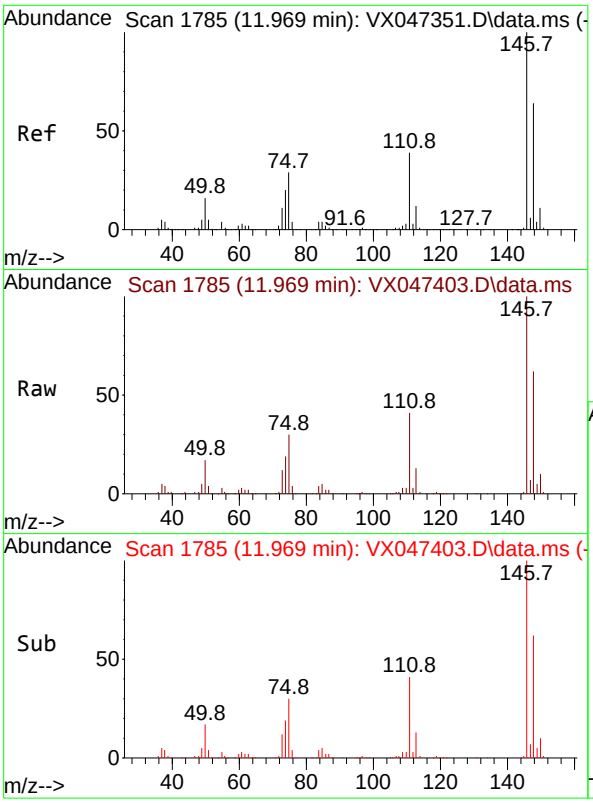


#86
p-Isopropyltoluene
Concen: 16.772 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:119 Resp: 214549

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.8	38.4
91	25.1	12.4	37.4

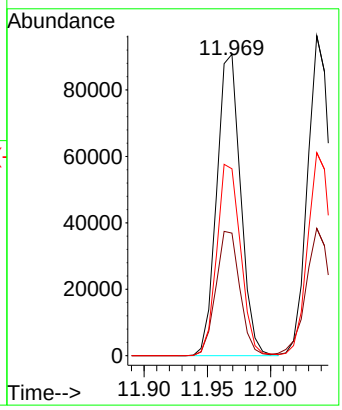




#87
1,3-Dichlorobenzene
Concen: 17.156 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:146 Resp: 11890

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.6	61.8
148	63.5	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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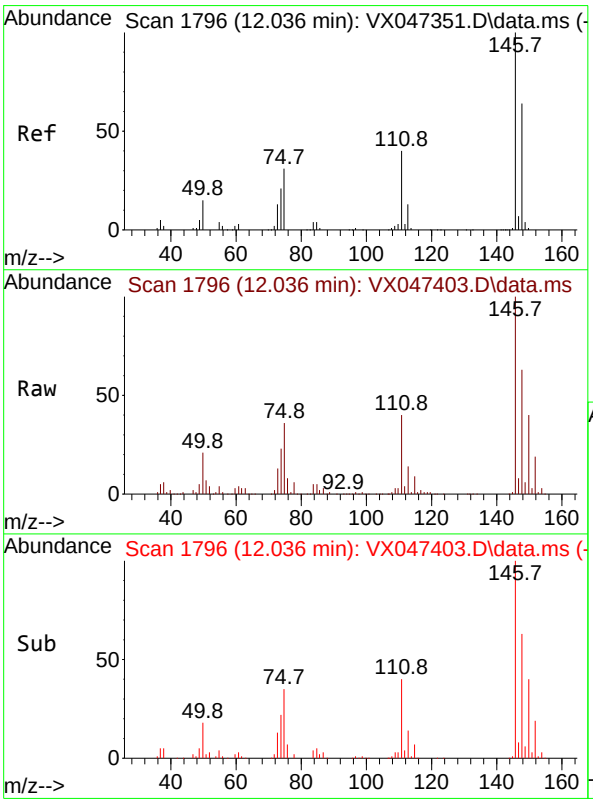
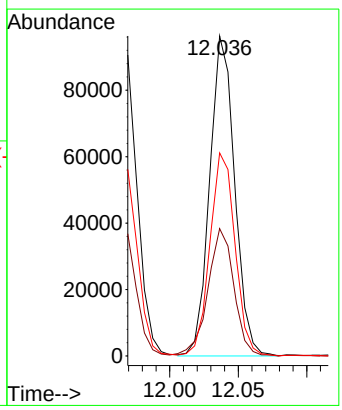
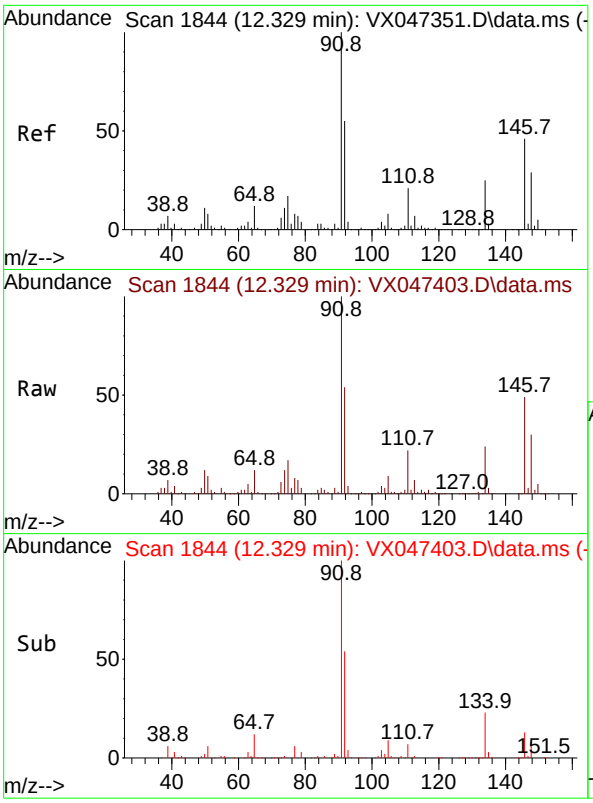


#88
1,4-Dichlorobenzene
Concen: 17.126 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:146 Resp: 122086

Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.4	61.2
148	64.0	31.7	95.1

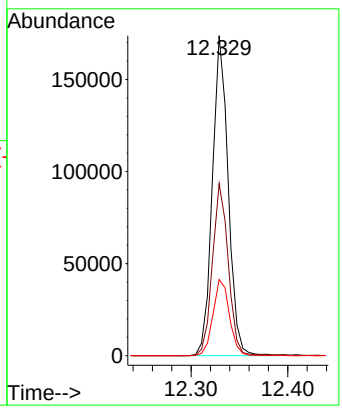




#89
n-Butylbenzene
Concen: 16.594 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 91 Resp: 19743

Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.2	81.5
134	24.9	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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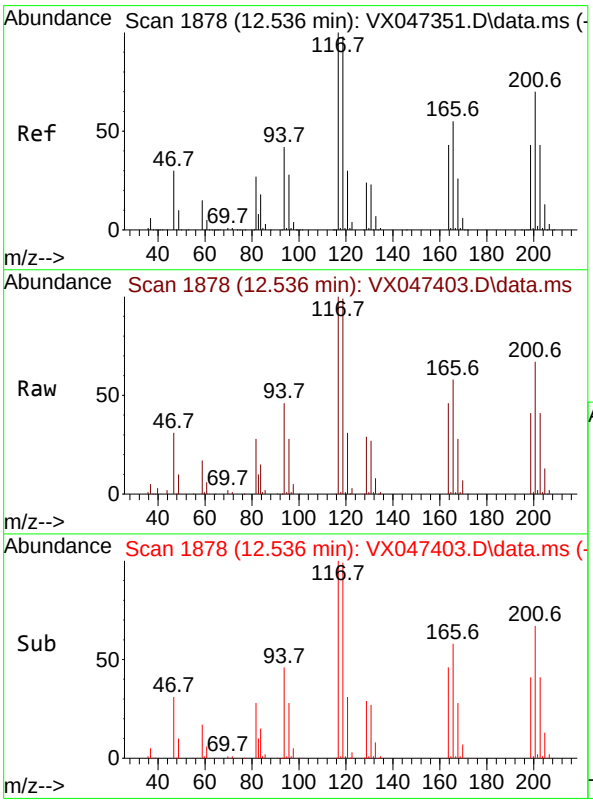
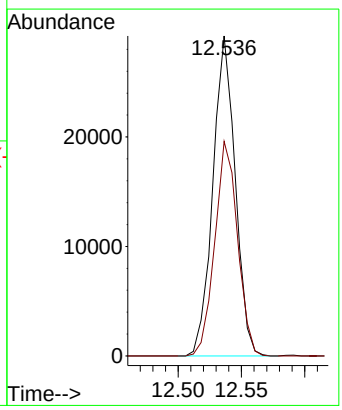
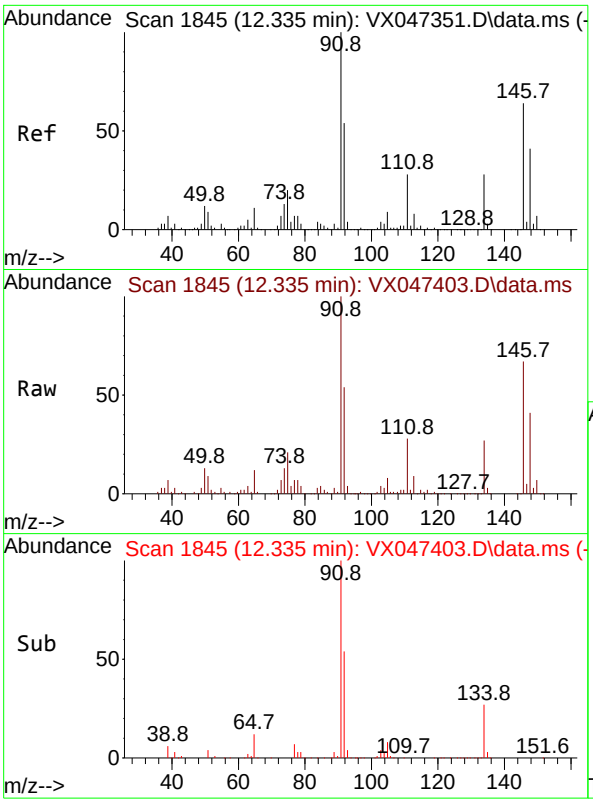


#90
Hexachloroethane
Concen: 15.980 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:117 Resp: 35860

Ion	Ratio	Lower	Upper
117	100		
201	68.2	35.1	105.3

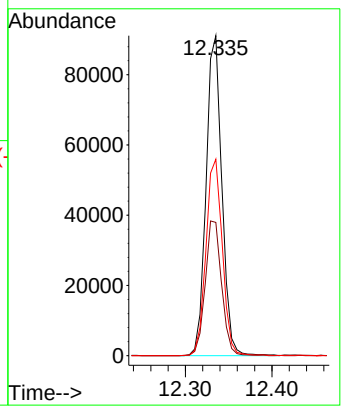




#91
1,2-Dichlorobenzene
Concen: 17.527 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:146 Resp: 11530

Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.1	66.1
148	63.8	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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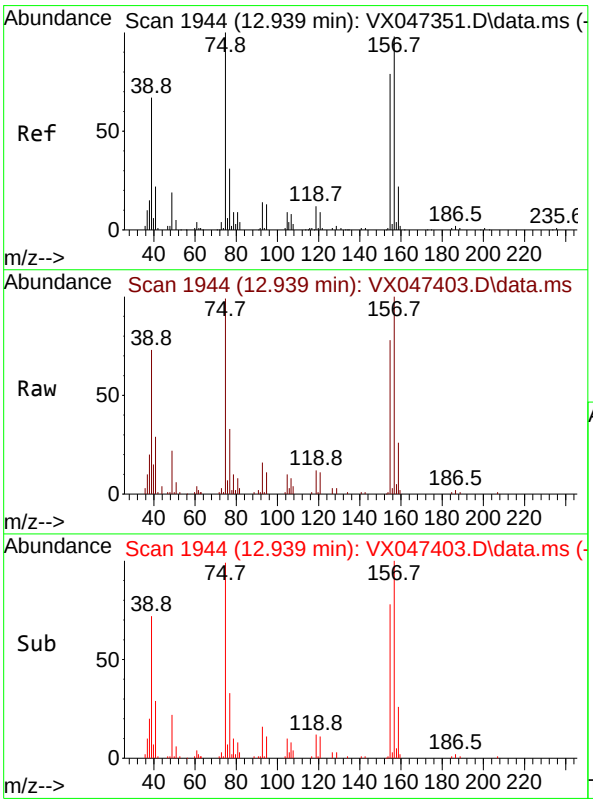
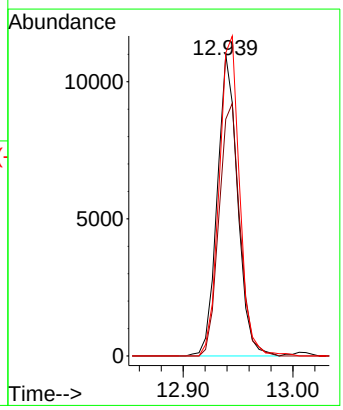
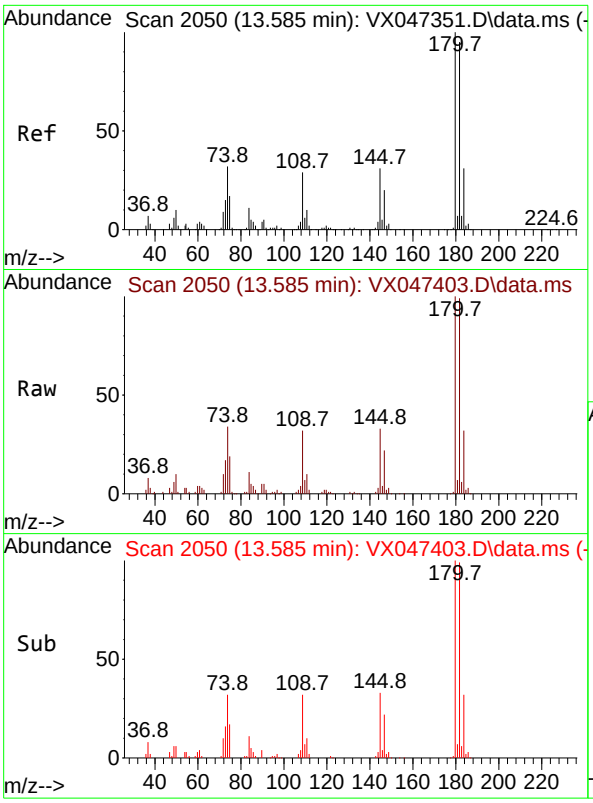


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.791 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 75 Resp: 14165

Ion	Ratio	Lower	Upper
75	100		
155	86.2	41.3	123.7
157	106.6	51.5	154.5

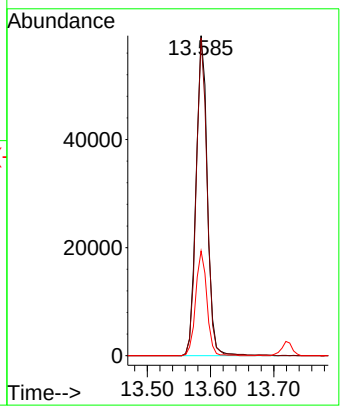




#93
1,2,4-Trichlorobenzene
Concen: 16.600 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:180 Resp: 7321

Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.1	144.4
145	32.6	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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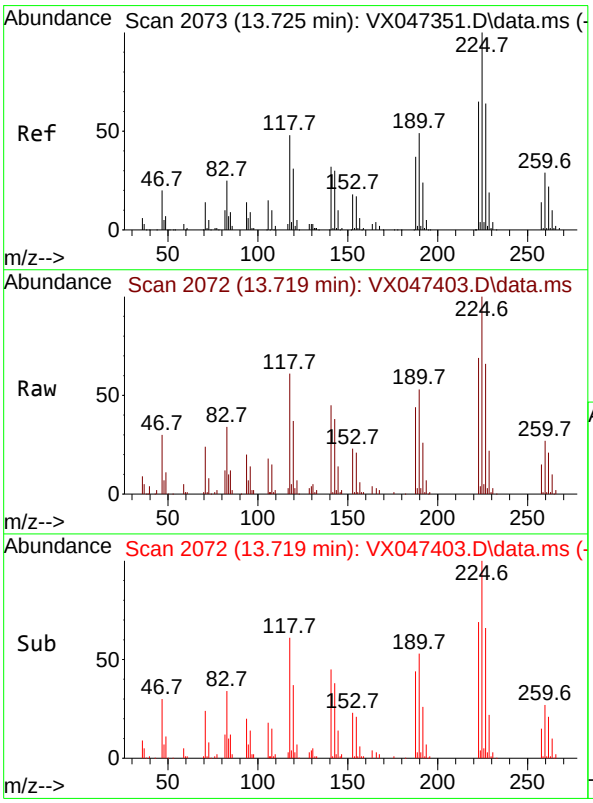
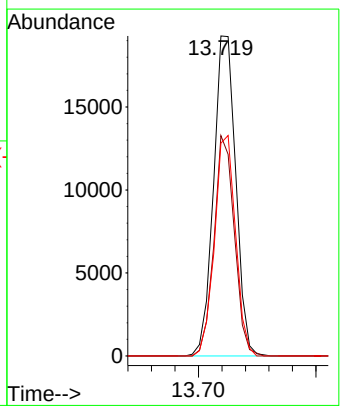
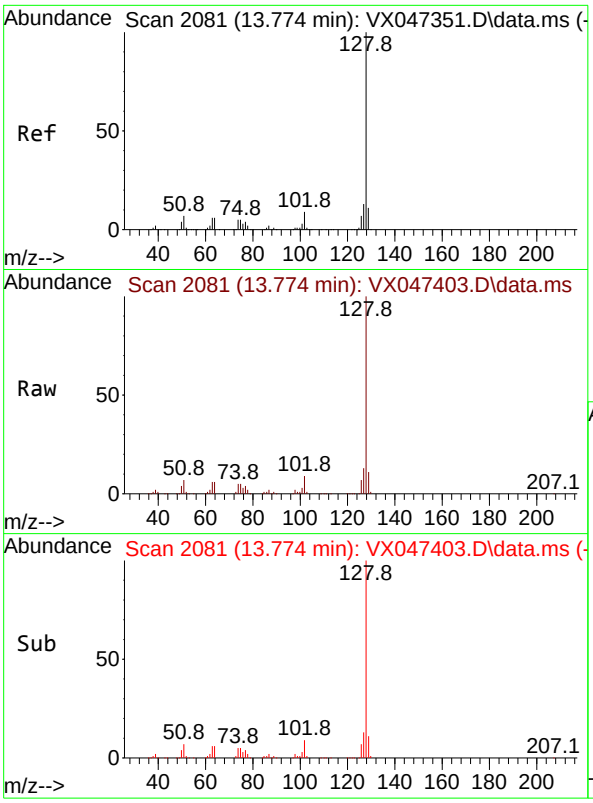


#94
Hexachlorobutadiene
Concen: 16.124 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:225 Resp: 25313

Ion	Ratio	Lower	Upper
225	100		
223	63.2	32.2	96.6
227	65.3	31.6	95.0

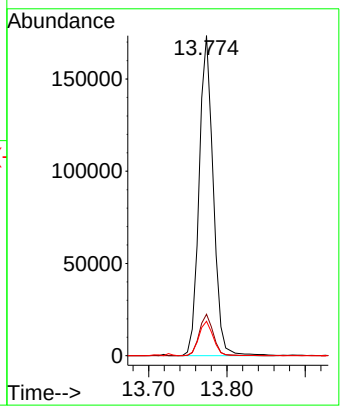




#95
Naphthalene
Concen: 17.229 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:128 Resp: 21715

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	11.0	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

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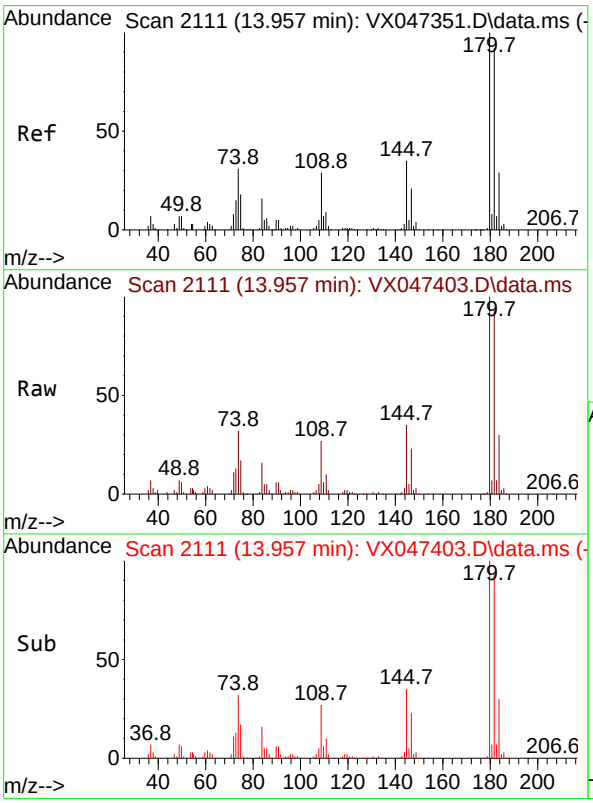
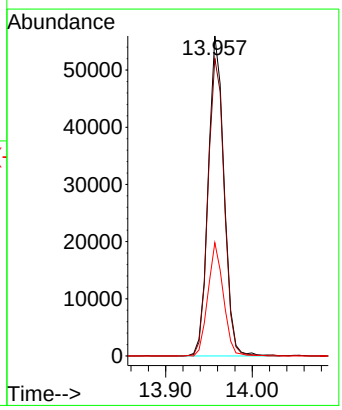


#96
1,2,3-Trichlorobenzene
Concen: 17.088 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:180 Resp: 71038

Ion	Ratio	Lower	Upper
180	100		
182	94.8	48.0	144.2
145	34.4	17.4	52.2



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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0820WBS01	SDG No.:	Q2815
Lab Sample ID:	VX0820WBS01	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
VX047430.D	1	08/20/25 10:35	VX082025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	17.2		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	16.6		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	16.1		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	16.7		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	15.8		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.1		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.8		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	16.8		0.23	0.75	1.00	ug/L
67-64-1	Acetone	89.6		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	15.5		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.0		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	18.7		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	17.2		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	16.7		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.2		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	17.0		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	93.1		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.5		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.1		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	19.9		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	17.4		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.2		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	17.1		0.16	0.50	1.00	ug/L
71-43-2	Benzene	17.6		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	17.6		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	17.2		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	17.3		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	93.5		0.68	2.50	5.00	ug/L
108-88-3	Toluene	18.0		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:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0820WBS01	SDG No.:	Q2815
Lab Sample ID:	VX0820WBS01	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
VX047430.D	1	08/20/25 10:35	VX082025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.6		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.4		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.1		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	91.6		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	17.7		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	17.2		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	17.3		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	17.6		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	35.8		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	17.9		0.12	0.50	1.00	ug/L
100-42-5	Styrene	18.0		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	17.6		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	17.3		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.6		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	17.0		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.2		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.5		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.3		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.9		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	49.8		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	49.2		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	245000	5.556				
540-36-3	1,4-Difluorobenzene	408000	6.763				
3114-55-4	Chlorobenzene-d5	368000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	189000	12.018				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0820WBS01	SDG No.:	Q2815
Lab Sample ID:	VX0820WBS01	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
VX047430.D	1	08/20/25 10:35	VX082025

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\VX082025\
Data File : VX047430.D
Acq On : 20 Aug 2025 10:35
Operator : JC/MD
Sample : VX0820WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 01:26:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	244648	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	407608	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	368354	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	188940	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	167819	49.014	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.020%			
35) Dibromofluoromethane	5.391	113	131872	49.849	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.700%			
50) Toluene-d8	8.647	98	465580	49.239	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.480%			
62) 4-Bromofluorobenzene	11.079	95	175075	50.176	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	53608	17.189	ug/l	99
3) Chloromethane	1.313	50	46690	16.642	ug/l	98
4) Vinyl Chloride	1.392	62	56657	16.089	ug/l	98
5) Bromomethane	1.630	94	23724	16.679	ug/l	97
6) Chloroethane	1.703	64	34003	15.782	ug/l	97
7) Trichlorofluoromethane	1.904	101	88810	17.050	ug/l	92
8) Diethyl Ether	2.148	74	30454	16.605	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.349	101	53855	17.824	ug/l	99
10) Methyl Iodide	2.471	142	60929	11.767	ug/l	96
11) Tert butyl alcohol	2.959	59	28713	96.397	ug/l	99
12) 1,1-Dichloroethene	2.337	96	51780	16.810	ug/l	100
13) Acrolein	2.246	56	55598	88.423	ug/l	97
14) Allyl chloride	2.678	41	88985	16.632	ug/l	100
15) Acrylonitrile	3.081	53	129142	89.724	ug/l	100
16) Acetone	2.386	43	115342	89.622	ug/l	96
17) Carbon Disulfide	2.526	76	143721	15.462	ug/l	98
18) Methyl Acetate	2.715	43	62524	18.747	ug/l	98
19) Methyl tert-butyl Ether	3.124	73	159152	16.984	ug/l	98
20) Methylene Chloride	2.800	84	58590	17.192	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	54587	16.697	ug/l	98
22) Diisopropyl ether	3.770	45	186733	17.657	ug/l	91
23) Vinyl Acetate	3.733	43	739375	85.298	ug/l	100
24) 1,1-Dichloroethane	3.623	63	102911	17.216	ug/l	99
25) 2-Butanone	4.568	43	156985	93.136	ug/l	100
26) 2,2-Dichloropropane	4.483	77	77655	17.212	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	64958	17.059	ug/l	98
28) Bromochloromethane	4.904	49	49457	19.883	ug/l #	14
29) Tetrahydrofuran	5.020	42	100323	92.088	ug/l	98
30) Chloroform	5.105	83	106236	17.414	ug/l	97
31) Cyclohexane	5.483	56	93514	16.971	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	90227	17.183	ug/l	98
36) 1,1-Dichloropropene	5.696	75	72507	17.363	ug/l	98
37) Ethyl Acetate	4.721	43	69374	16.002	ug/l #	96
38) Carbon Tetrachloride	5.690	117	80032	17.538	ug/l	97
39) Methylcyclohexane	7.385	83	89125	17.110	ug/l	94
40) Benzene	6.050	78	220365	17.630	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047430.D
Acq On : 20 Aug 2025 10:35
Operator : JC/MD
Sample : VX0820WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 01:26:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	32344	17.692	ug/l		93
42) 1,2-Dichloroethane	6.099	62	77919	17.599	ug/l		99
43) Isopropyl Acetate	6.349	43	110163	17.688	ug/l		99
44) Trichloroethene	7.135	130	54954	17.170	ug/l		99
45) 1,2-Dichloropropane	7.434	63	54273	17.332	ug/l		100
46) Dibromomethane	7.586	93	40698	17.902	ug/l		98
47) Bromodichloromethane	7.824	83	82328	17.469	ug/l		100
48) Methyl methacrylate	7.696	41	56854	17.587	ug/l		97
49) 1,4-Dioxane	7.690	88	11406	362.941	ug/l		93
51) 4-Methyl-2-Pentanone	8.574	43	335125	93.506	ug/l		98
52) Toluene	8.720	92	138882	17.981	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	72403	17.602	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	81220	17.445	ug/l		97
55) 1,1,2-Trichloroethane	9.153	97	53137	18.120	ug/l		96
56) Ethyl methacrylate	9.116	69	75185	17.389	ug/l		99
57) 1,3-Dichloropropane	9.305	76	89328	17.876	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.245	63	187096	95.949	ug/l		98
59) 2-Hexanone	9.433	43	226987	91.559	ug/l		99
60) Dibromochloromethane	9.519	129	61655	17.691	ug/l		98
61) 1,2-Dibromoethane	9.610	107	52535	17.373	ug/l		100
64) Tetrachloroethene	9.275	164	45932	17.239	ug/l		97
65) Chlorobenzene	10.080	112	151755	17.336	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.159	131	52523	17.750	ug/l		98
67) Ethyl Benzene	10.195	91	264573	17.561	ug/l		98
68) m/p-Xylenes	10.299	106	200944	35.769	ug/l		99
69) o-Xylene	10.640	106	97003	17.943	ug/l		96
70) Styrene	10.653	104	164340	17.991	ug/l		100
71) Bromoform	10.799	173	39163	17.617	ug/l	#	99
73) Isopropylbenzene	10.964	105	256220	17.329	ug/l		99
74) N-amyl acetate	10.842	43	93750	16.697	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	76376	17.594	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	60088m	17.340	ug/l		
77) Bromobenzene	11.195	156	62108	17.202	ug/l		98
78) n-propylbenzene	11.305	91	305865	17.321	ug/l		100
79) 2-Chlorotoluene	11.360	91	181694	17.021	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	210710	17.321	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	10400	18.858	ug/l		96
82) 4-Chlorotoluene	11.451	91	216515	17.207	ug/l		99
83) tert-Butylbenzene	11.713	119	211697	17.442	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	213463	17.547	ug/l		99
85) sec-Butylbenzene	11.890	105	268675	17.860	ug/l		100
86) p-Isopropyltoluene	12.006	119	225219	17.692	ug/l		99
87) 1,3-Dichlorobenzene	11.970	146	116436	16.881	ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	120251	16.951	ug/l		99
89) n-Butylbenzene	12.329	91	208015	17.569	ug/l		99
90) Hexachloroethane	12.536	117	37901	16.972	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	112636	17.205	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	14705	17.516	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	71685	16.333	ug/l		99
94) Hexachlorobutadiene	13.719	225	27248	17.442	ug/l		98
95) Naphthalene	13.774	128	212701	16.959	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	70071	16.938	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047430.D
Acq On : 20 Aug 2025 10:35
Operator : JC/MD
Sample : VX0820WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 01:26:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

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

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

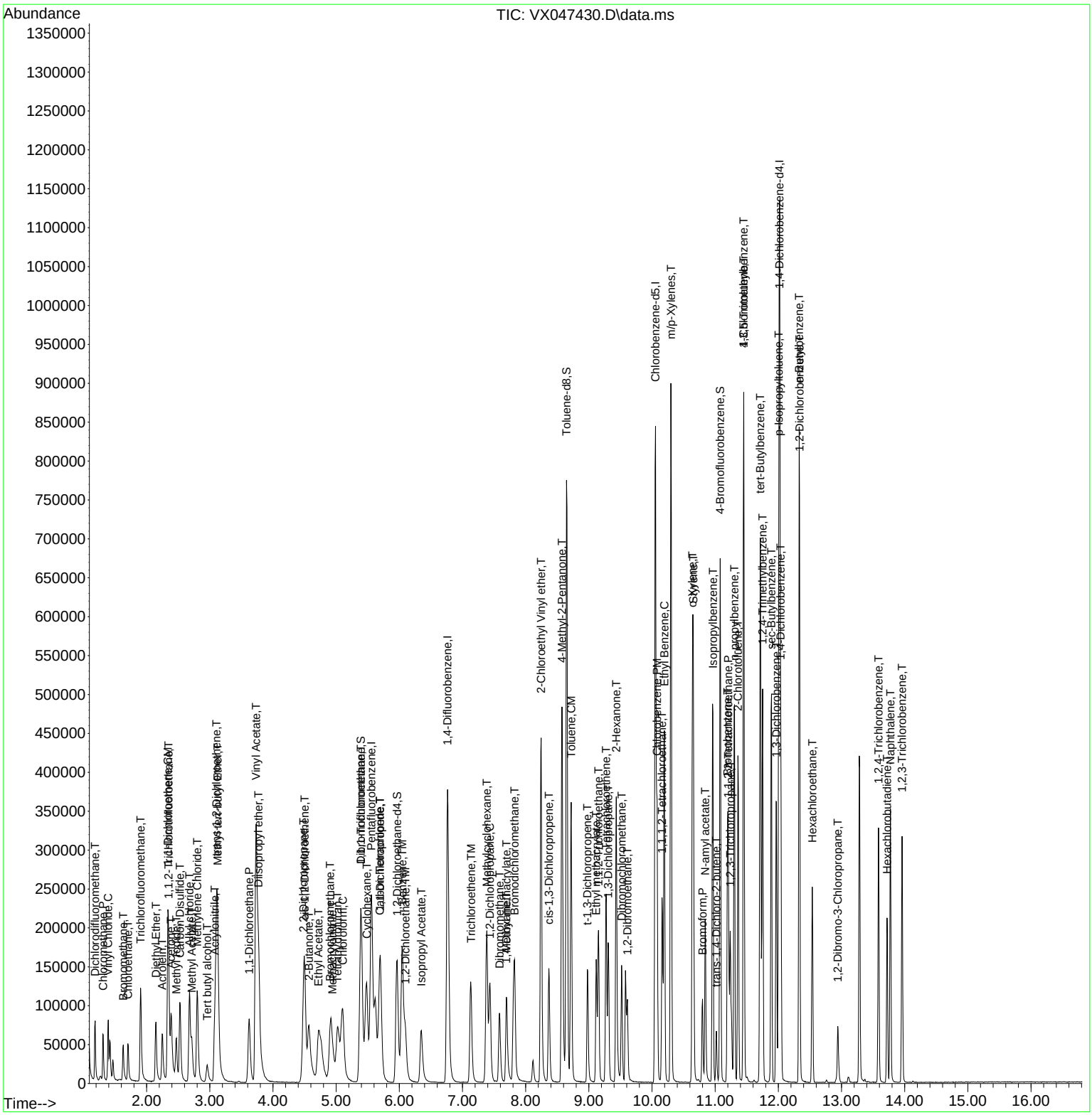
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047430.D
Acq On : 20 Aug 2025 10:35
Operator : JC/MD
Sample : VX0820WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

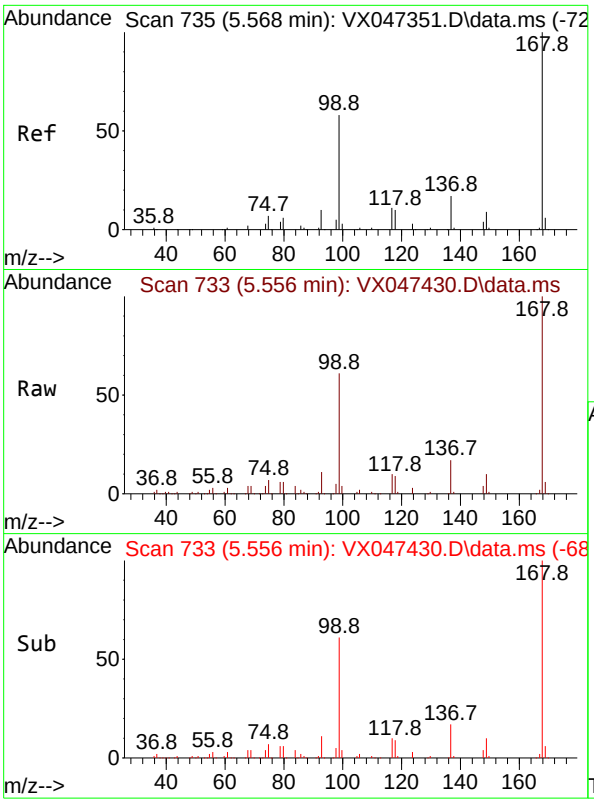
Quant Time: Aug 21 01:26:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

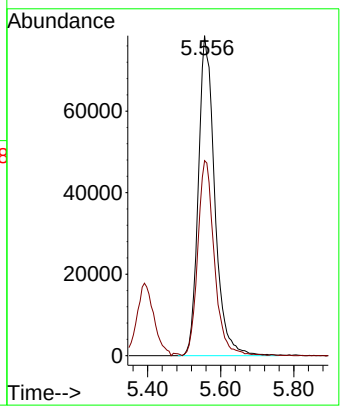




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:168 Resp: 24464

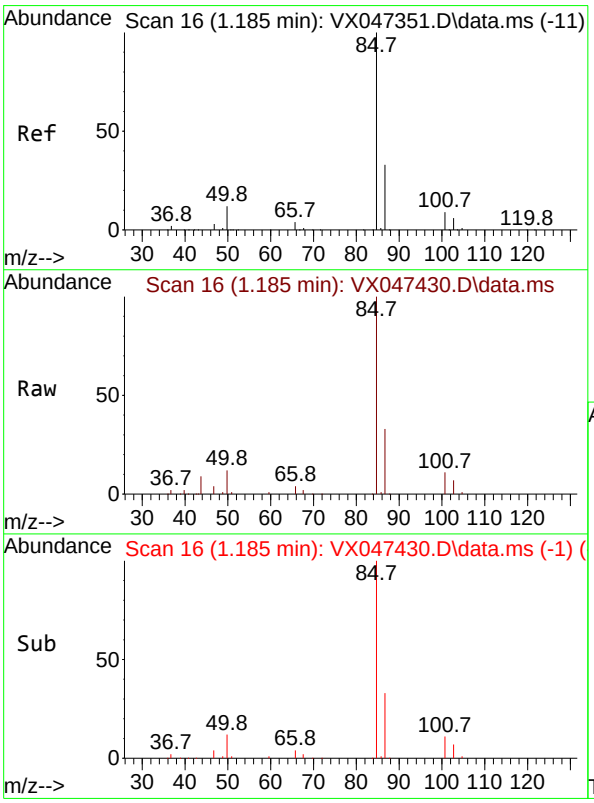
Ion	Ratio	Lower	Upper
168	100		
99	60.9	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Manual Integrations APPROVED

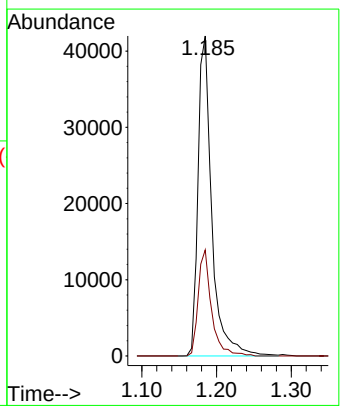
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

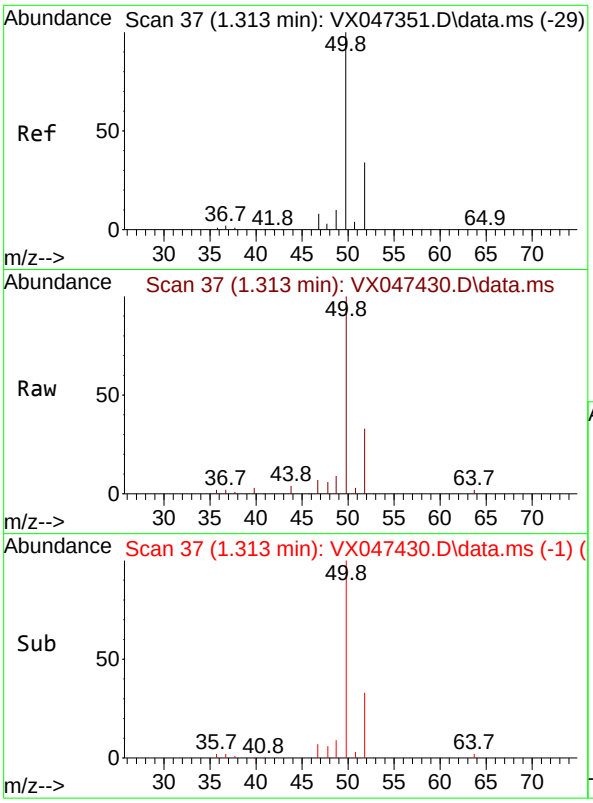


#2
Dichlorodifluoromethane
Concen: 17.189 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 85 Resp: 53608

Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.4	49.1

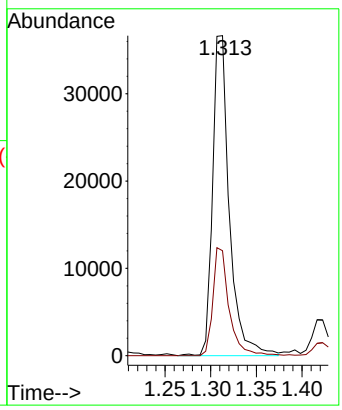




#3
Chloromethane
Concen: 16.642 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 50 Resp: 4669

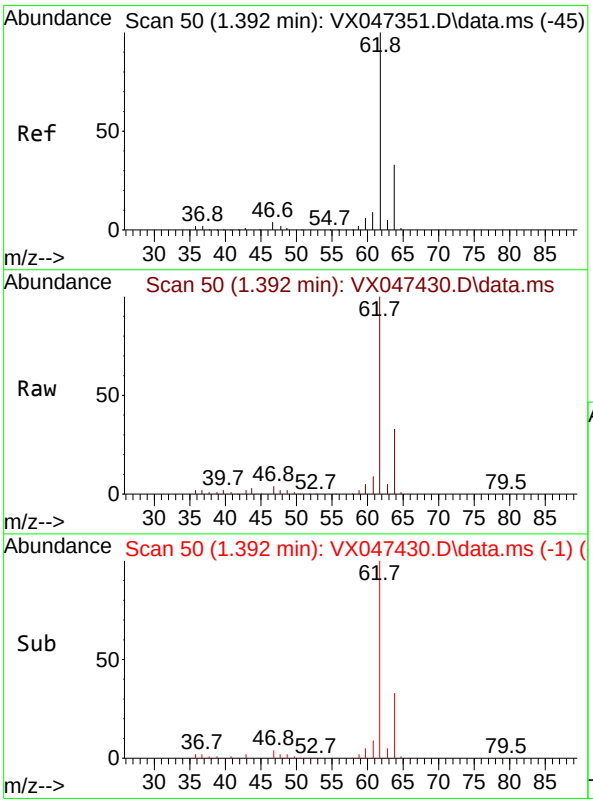
Ion	Ratio	Lower	Upper
50	100		
52	32.8	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Manual Integrations
APPROVED

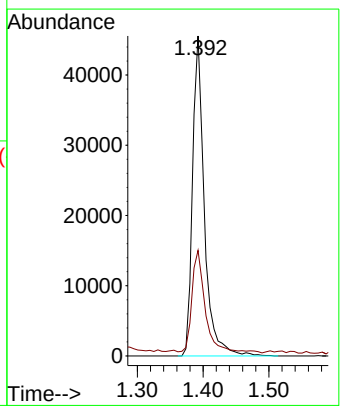
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

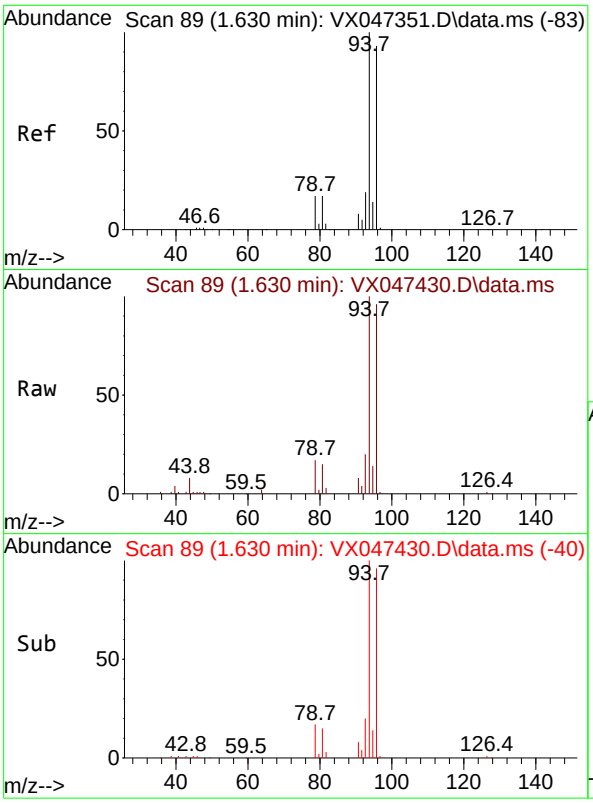


#4
Vinyl Chloride
Concen: 16.089 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 62 Resp: 56657

Ion	Ratio	Lower	Upper
62	100		
64	31.7	26.5	39.7

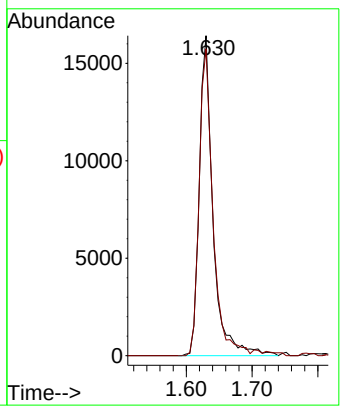




#5
Bromomethane
Concen: 16.679 ug/l
RT: 1.630 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 94 Resp: 2372

Ion	Ratio	Lower	Upper
94	100		
96	95.9	74.7	112.1



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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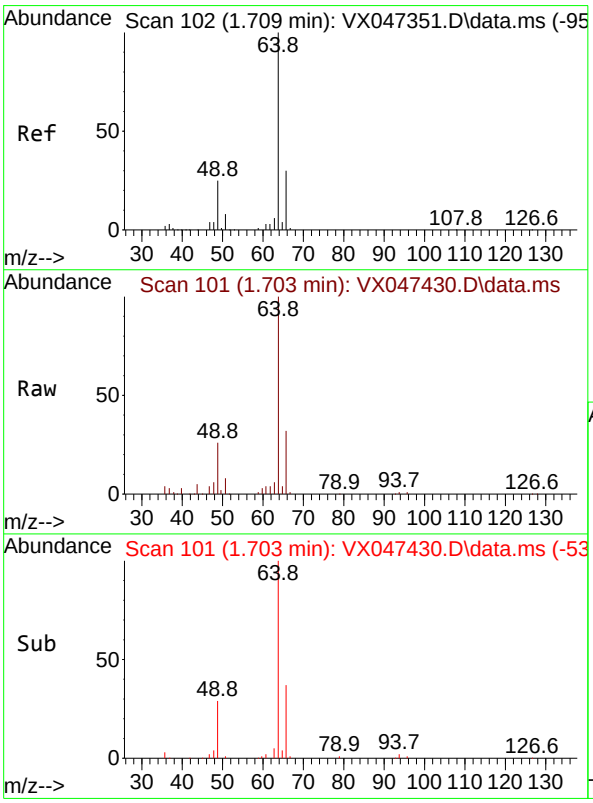
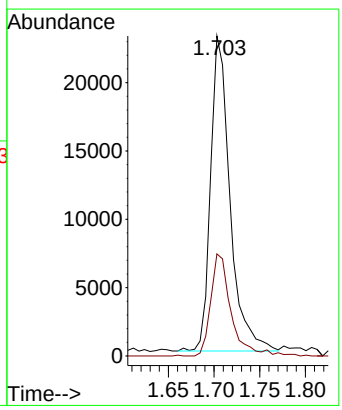
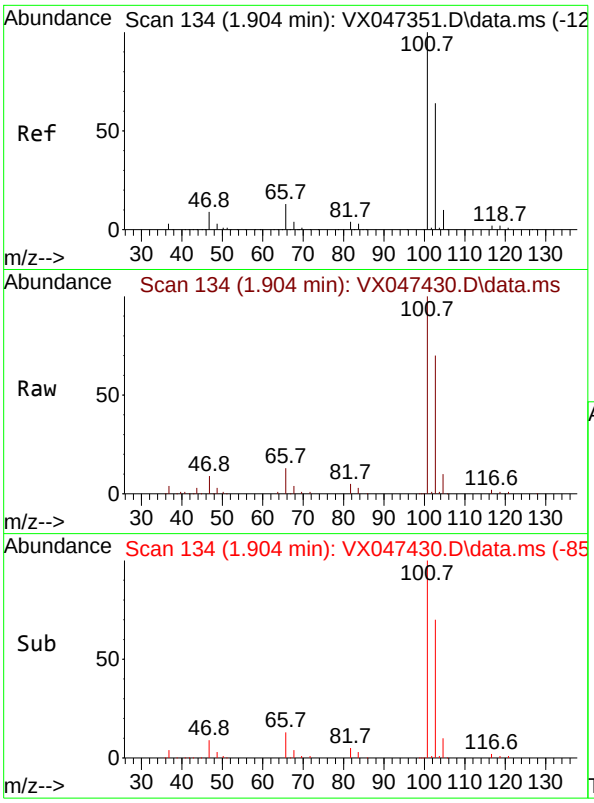


#6
Chloroethane
Concen: 15.782 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 64 Resp: 34003

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.4	36.6





#7
Trichlorofluoromethane
Concen: 17.050 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:101 Resp: 8881

Ion	Ratio	Lower	Upper
101	100		
103	69.9	50.9	76.3

Instrument :
MSVOA_X
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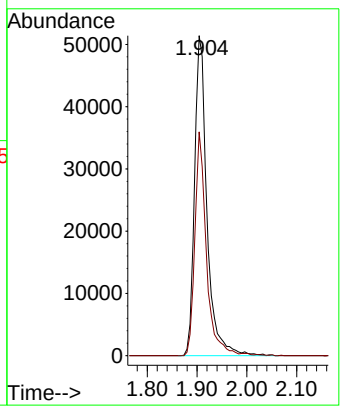
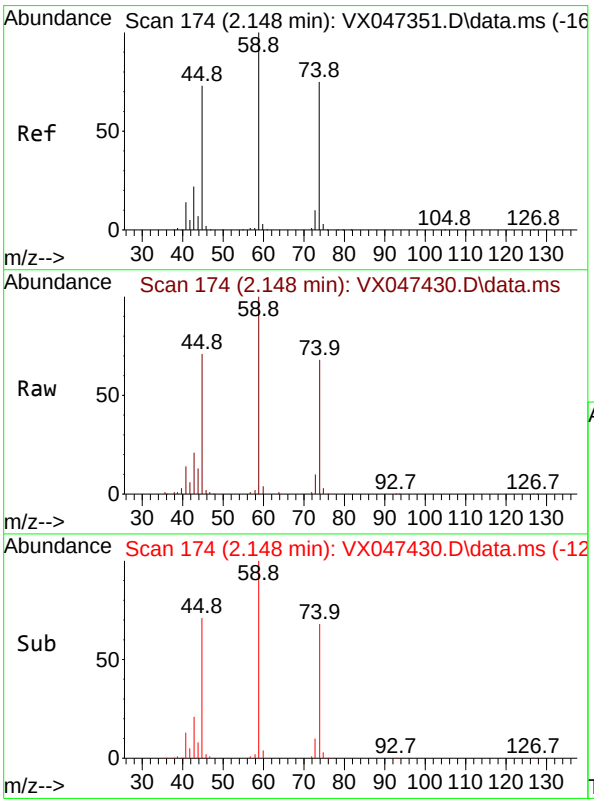
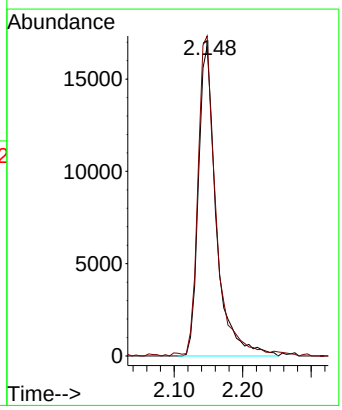


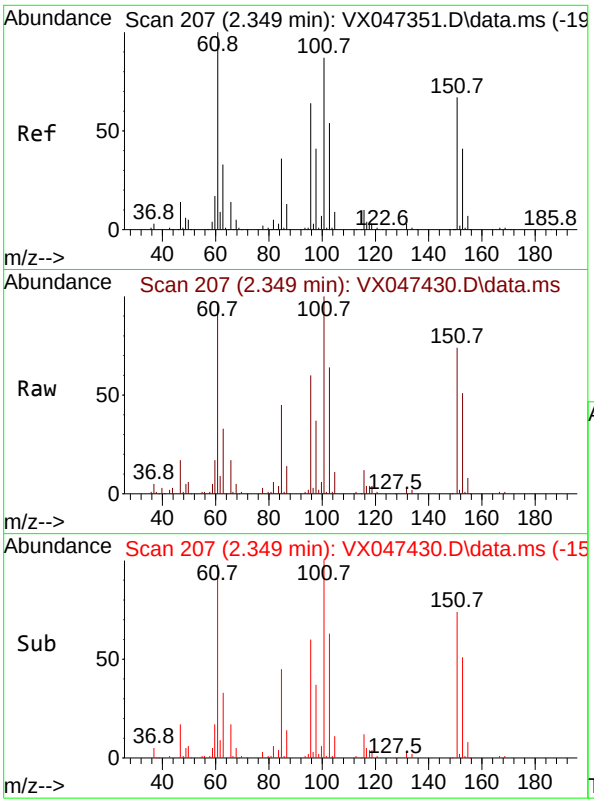


#8
Diethyl Ether
Concen: 16.605 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 74 Resp: 30454

Ion	Ratio	Lower	Upper
74	100		
45	104.6	51.3	154.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.824 ug/l
RT: 2.349 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:101 Resp: 5385

Ion	Ratio	Lower	Upper
101	100		
85	44.1	34.3	51.5
151	73.9	59.2	88.8

Instrument :
MSVOA_X
ClientSampleId :
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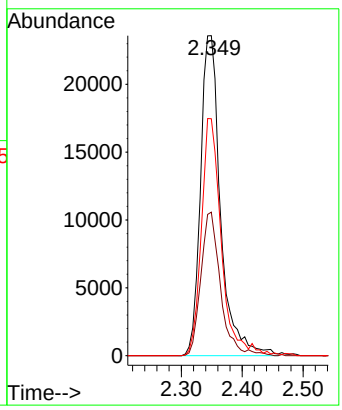
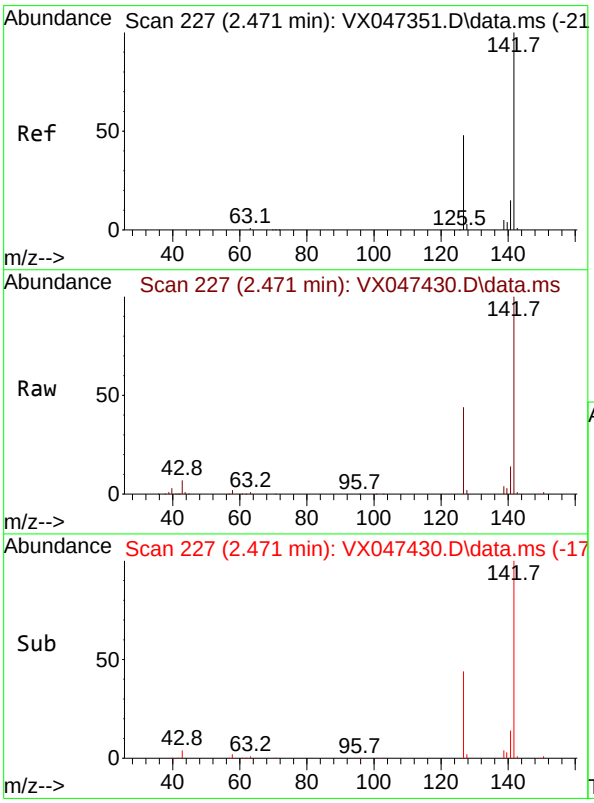
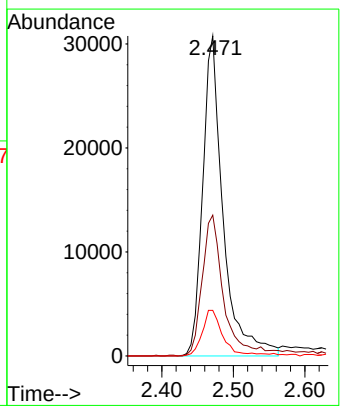


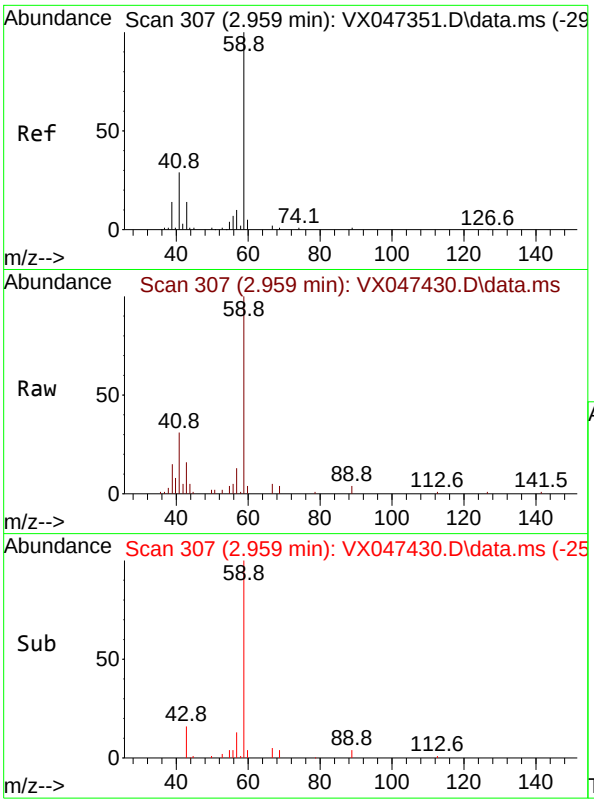


#10
Methyl Iodide
Concen: 11.767 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:142 Resp: 60929

Ion	Ratio	Lower	Upper
142	100		
127	47.9	36.1	54.1
141	15.0	11.1	16.7

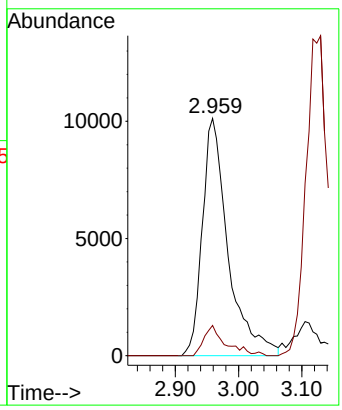




#11
Tert butyl alcohol
Concen: 96.397 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 59 Resp: 2871

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.3	12.5



Instrument :
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ClientSampleId :
VX0820WBS01

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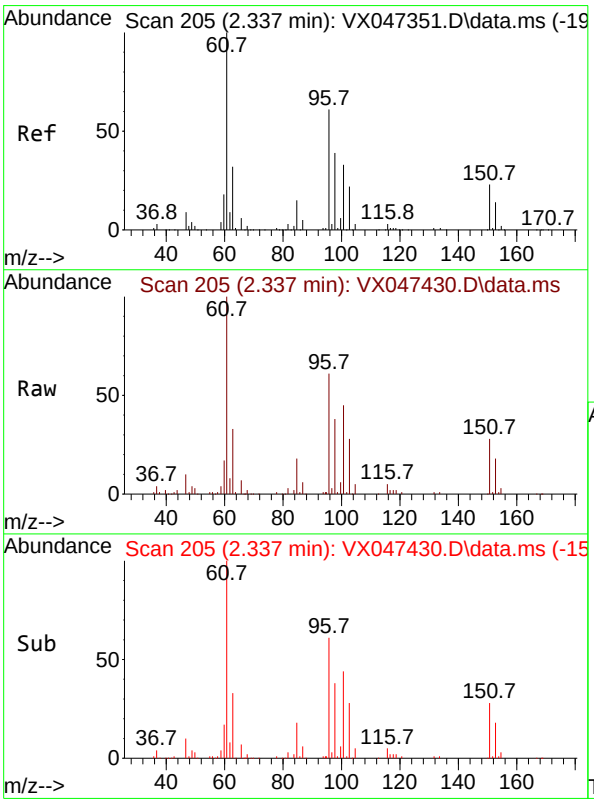
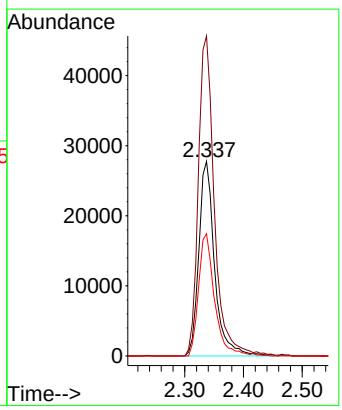
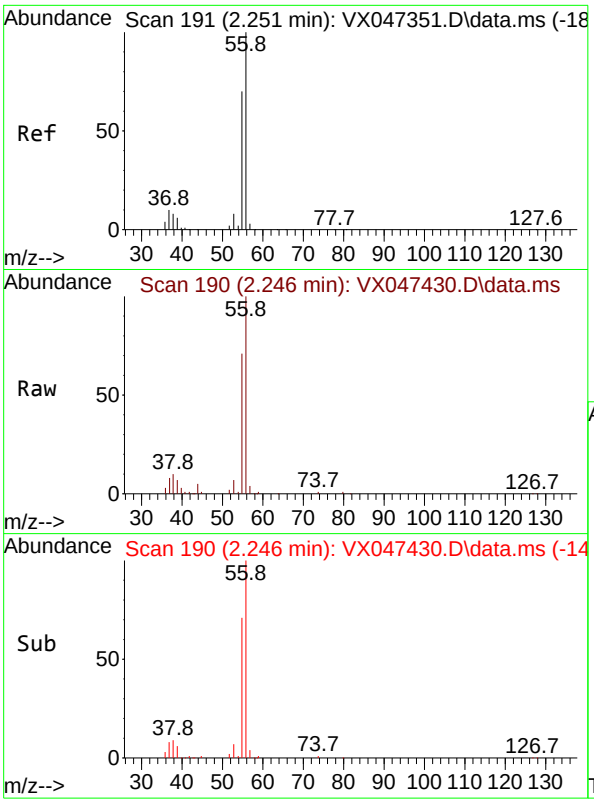


#12
1,1-Dichloroethene
Concen: 16.810 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 96 Resp: 51780

Ion	Ratio	Lower	Upper
96	100		
61	164.5	132.2	198.2
98	63.7	51.2	76.8

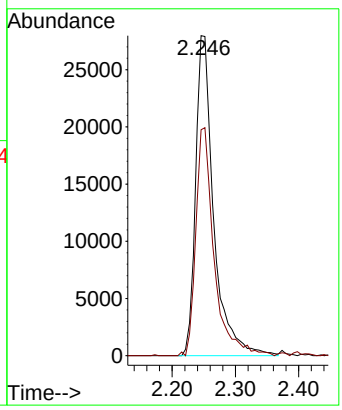




#13
Acrolein
Concen: 88.423 ug/l
RT: 2.246 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 56 Resp: 5559

Ion	Ratio	Lower	Upper
56	100		
55	71.9	55.5	83.3



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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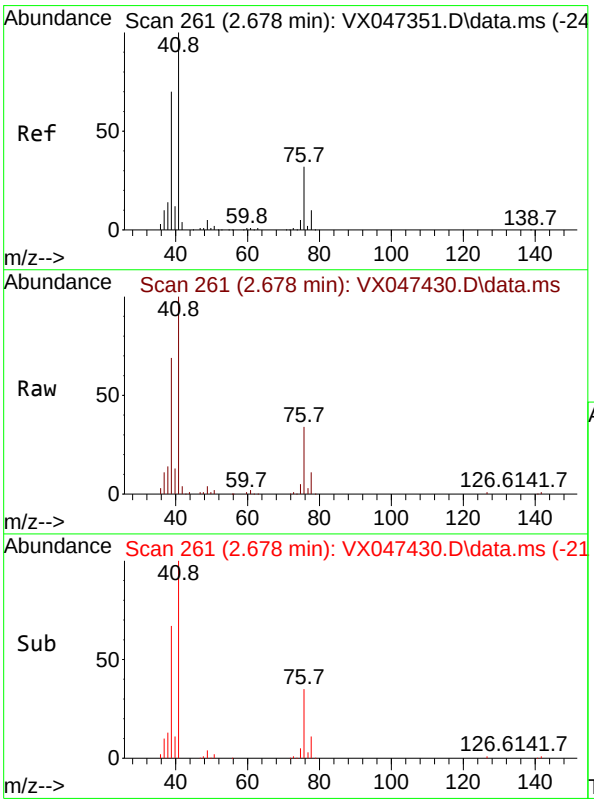
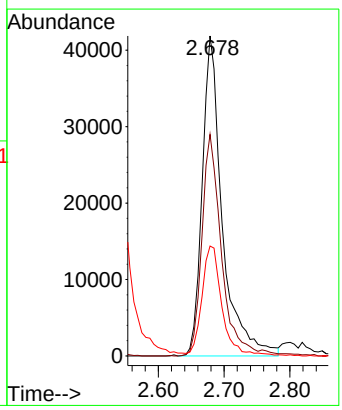
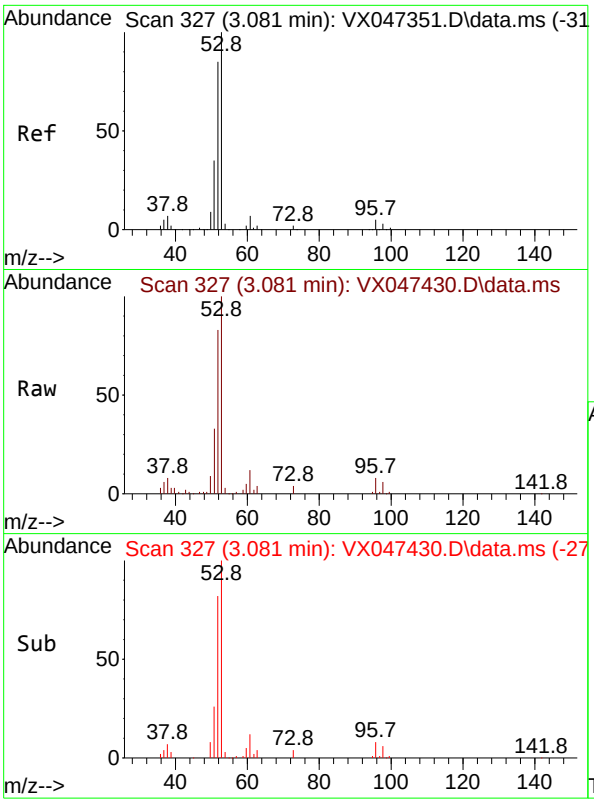


#14
Allyl chloride
Concen: 16.632 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 41 Resp: 88985

Ion	Ratio	Lower	Upper
41	100		
39	68.2	54.6	81.8
76	34.4	27.6	41.4

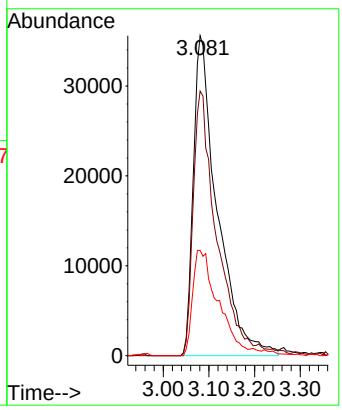




#15
Acrylonitrile
Concen: 89.724 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 53 Resp: 12914

Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.8	98.6
51	35.8	28.2	42.2



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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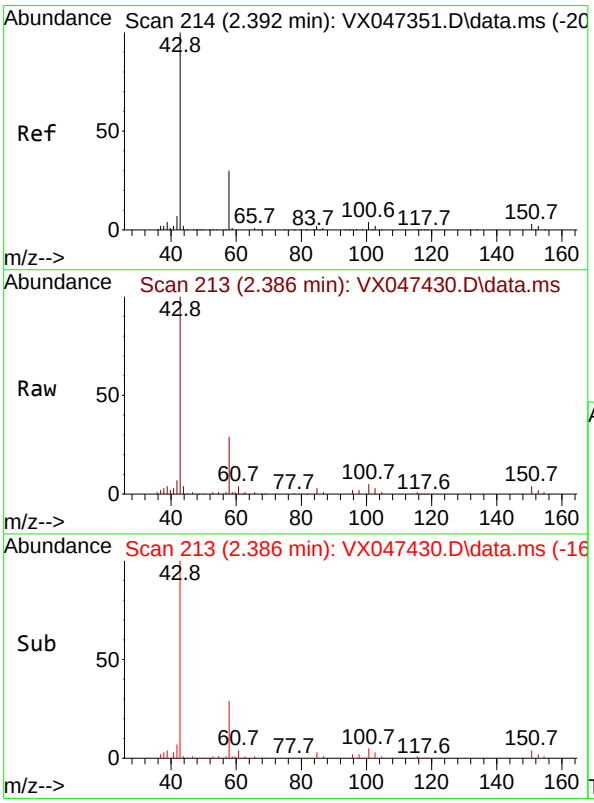
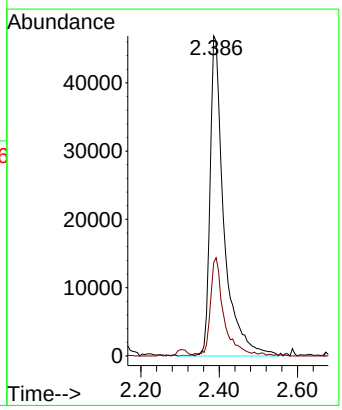
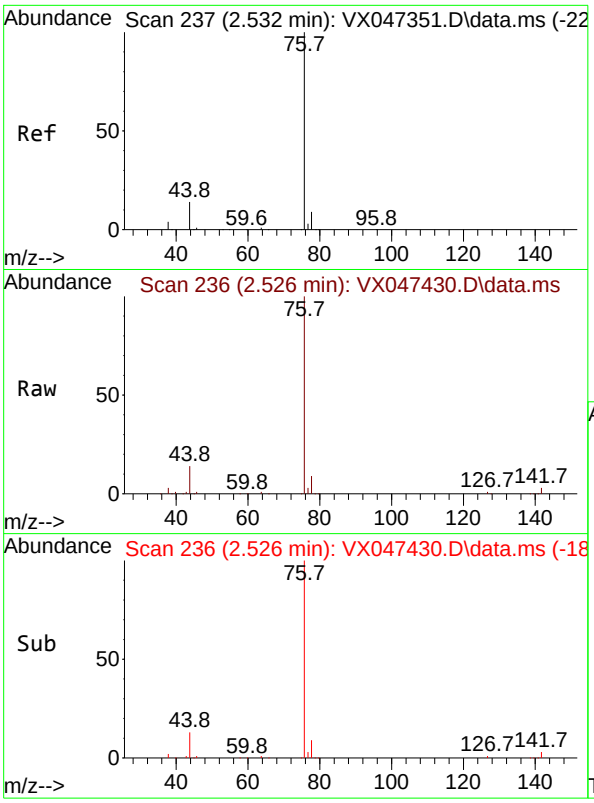


#16
Acetone
Concen: 89.622 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 43 Resp: 115342

Ion	Ratio	Lower	Upper
43	100		
58	28.9	24.8	37.2





#17
Carbon Disulfide
Concen: 15.462 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 76 Resp: 14372

Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.2	10.8

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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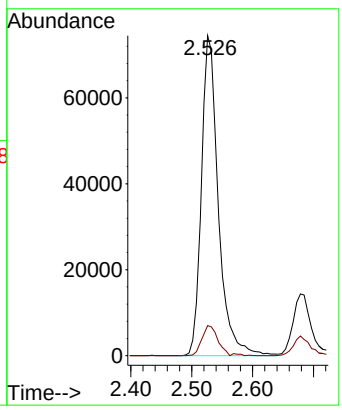
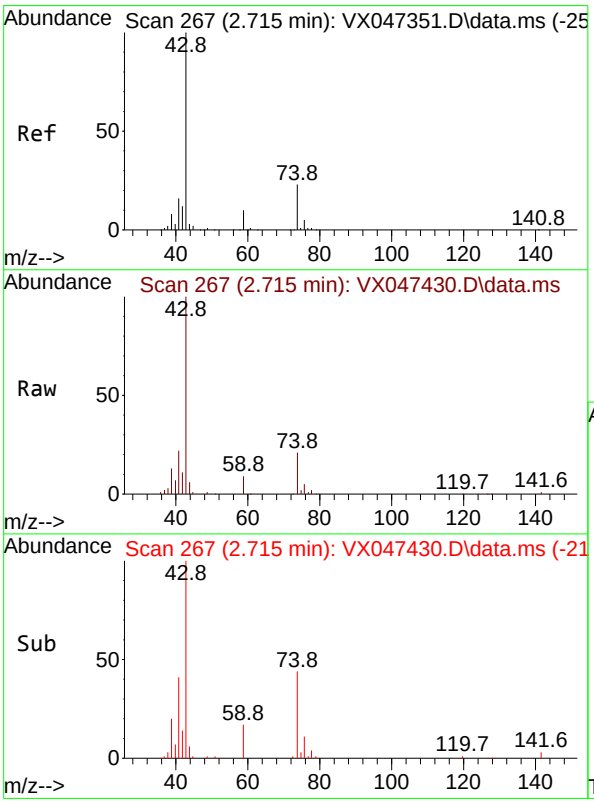
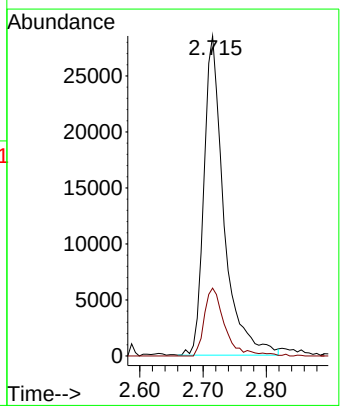


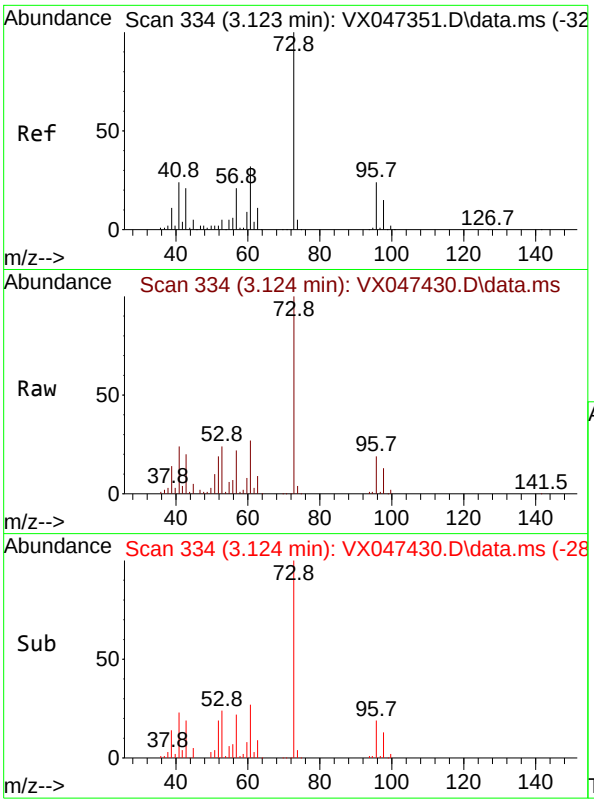


#18
Methyl Acetate
Concen: 18.747 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 43 Resp: 62524

Ion	Ratio	Lower	Upper
43	100		
74	21.8	18.4	27.6

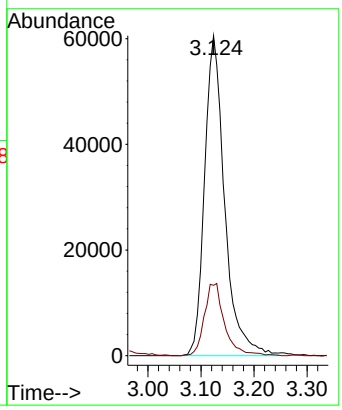




#19
Methyl tert-butyl Ether
Concen: 16.984 ug/l
RT: 3.124 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 73 Resp: 15915

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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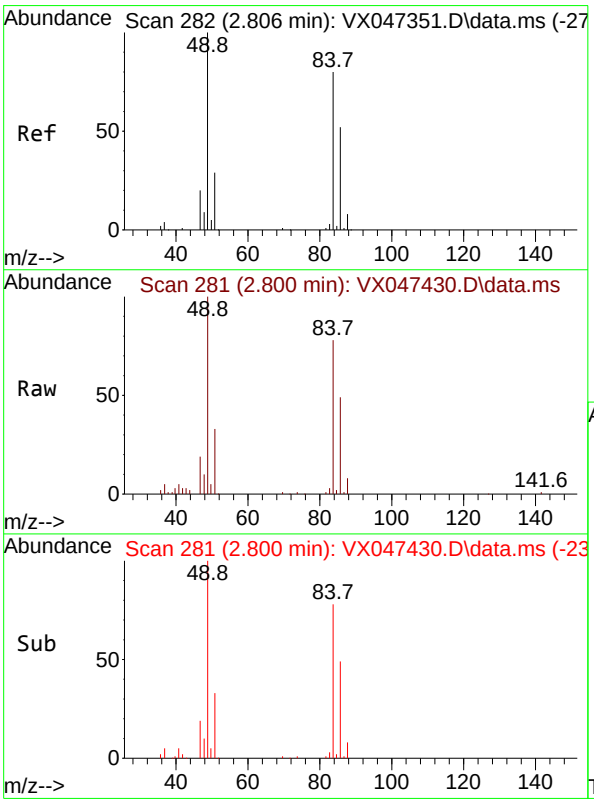
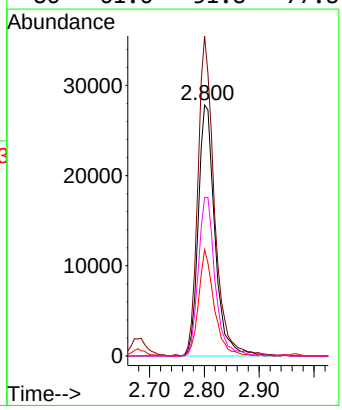
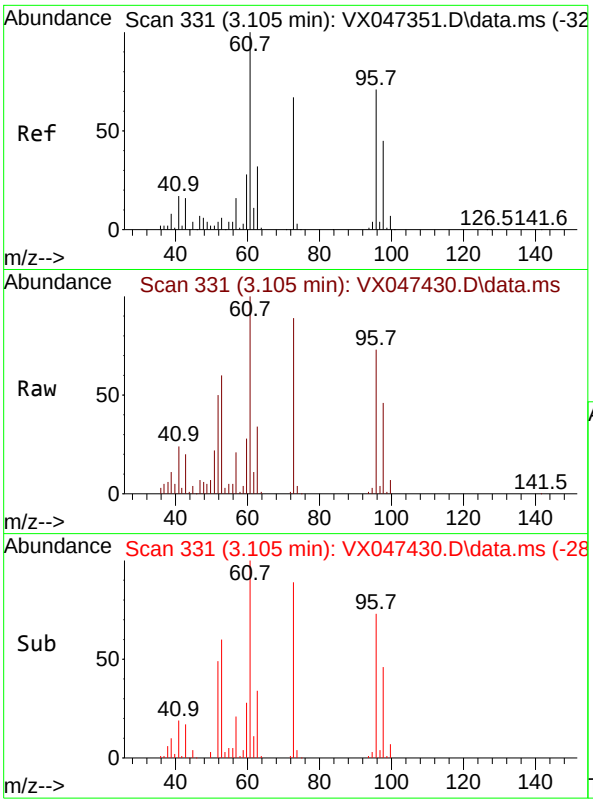


#20
Methylene Chloride
Concen: 17.192 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 84 Resp: 58590

Ion	Ratio	Lower	Upper
84	100		
49	124.2	100.1	150.1
51	41.4	29.5	44.3
86	61.6	51.8	77.8

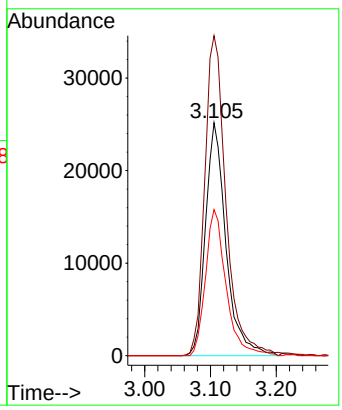




#21
trans-1,2-Dichloroethene
Concen: 16.697 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 96 Resp: 5458

Ion	Ratio	Lower	Upper
96	100		
61	137.4	112.6	169.0
98	62.7	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
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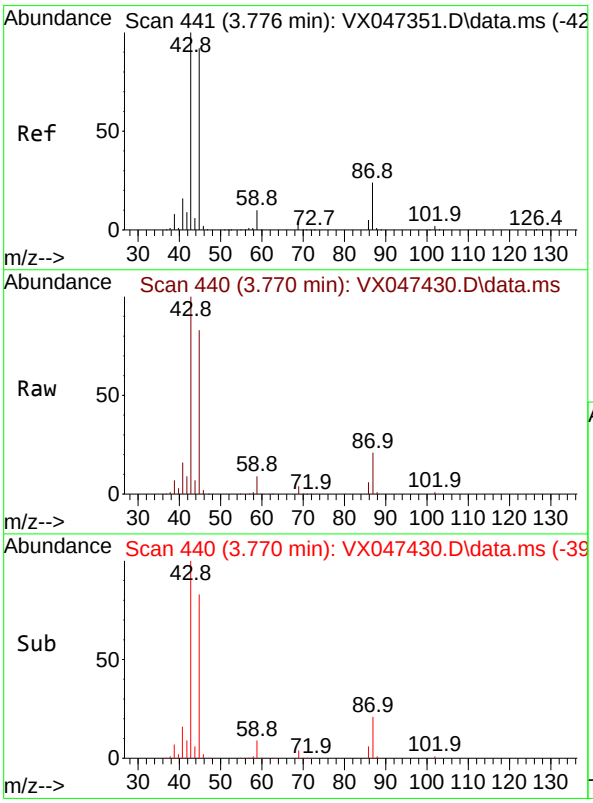
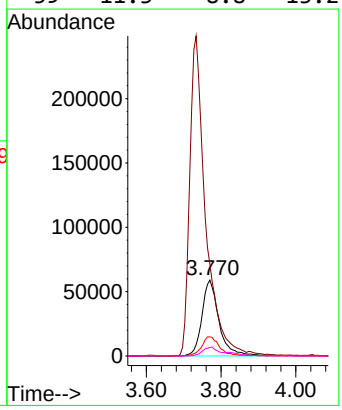
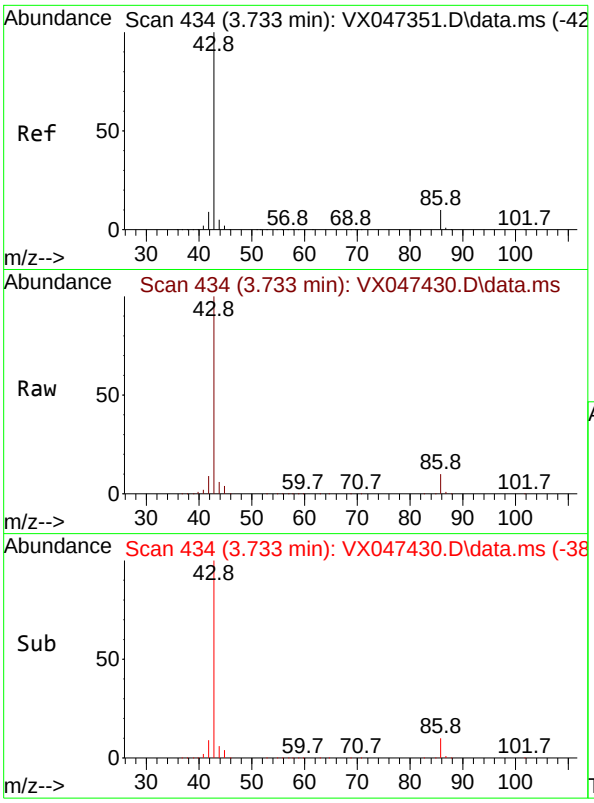


#22
Diisopropyl ether
Concen: 17.657 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 45 Resp: 186733

Ion	Ratio	Lower	Upper
45	100		
43	120.9	86.8	130.2
87	25.1	20.4	30.6
59	11.3	8.8	13.2





#23
Vinyl Acetate
Concen: 85.298 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 43 Resp: 73937

Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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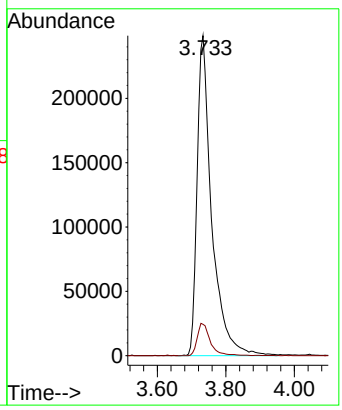
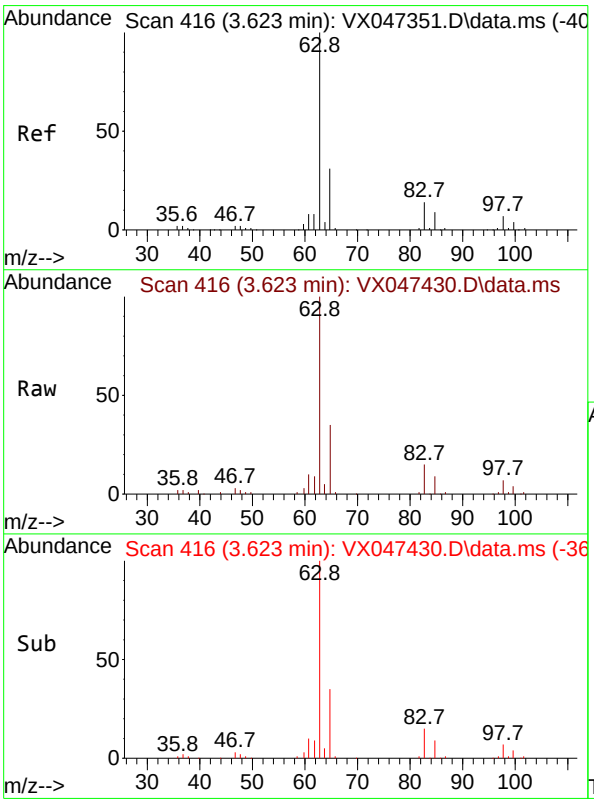
Supervised By :Mahesh Dadoda 08/22/2025

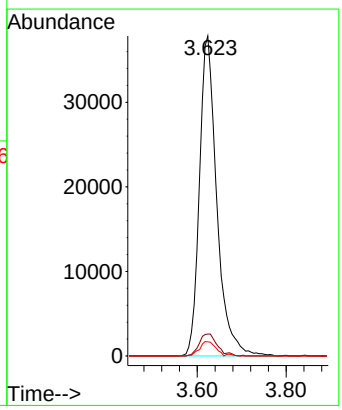


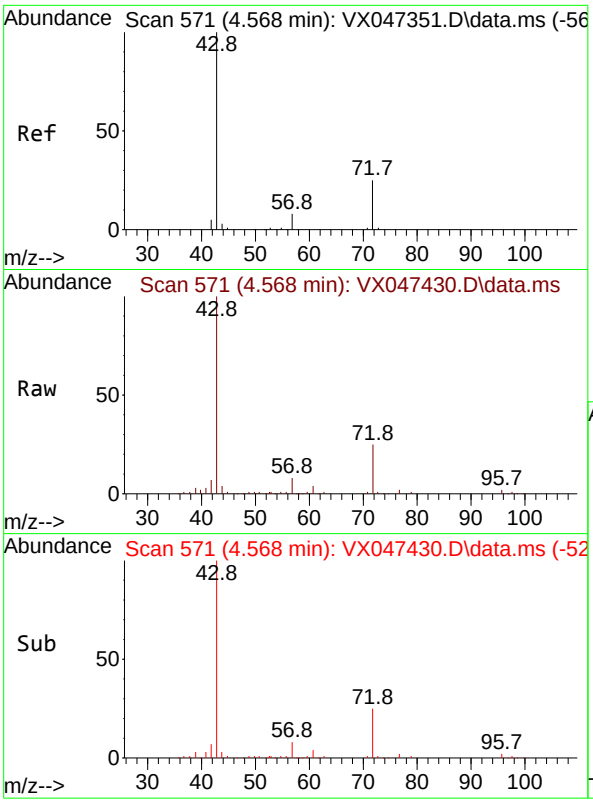


#24
1,1-Dichloroethane
Concen: 17.216 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 63 Resp: 102911

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.3	9.9
100	4.4	2.1	6.3





#25
2-Butanone
Concen: 93.136 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 43 Resp: 15698

Ion	Ratio	Lower	Upper
43	100		
72	25.0	19.8	29.8

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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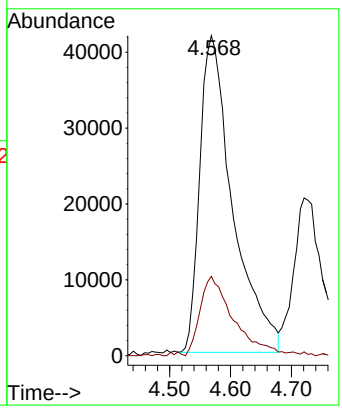
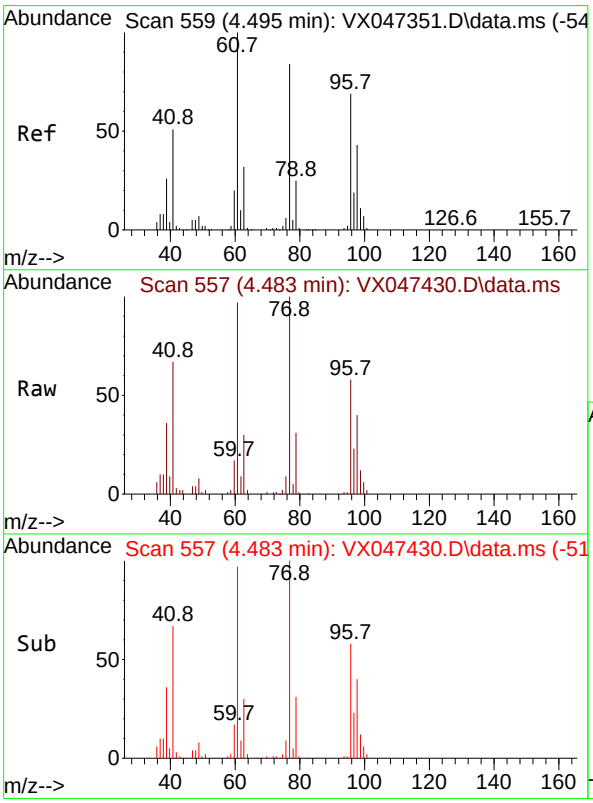
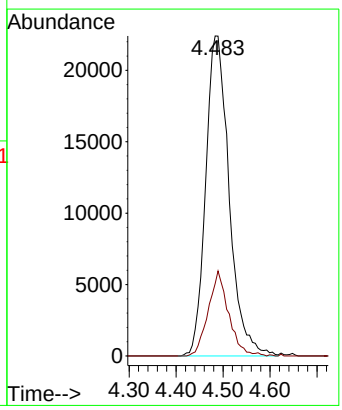


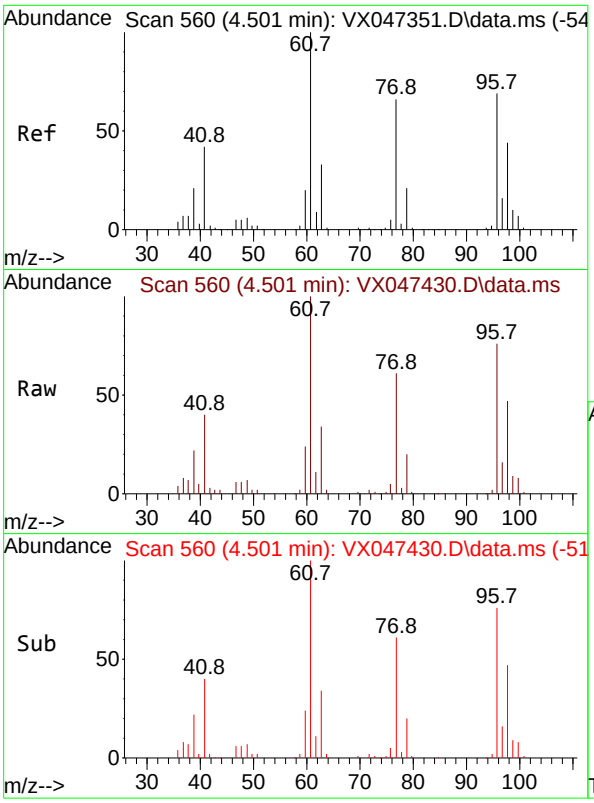


#26
2,2-Dichloropropane
Concen: 17.212 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.012 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 77 Resp: 77655

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.4	34.1

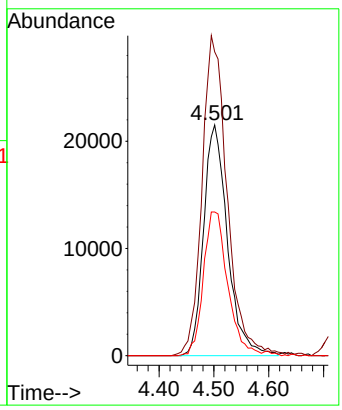




#27
cis-1,2-Dichloroethene
Concen: 17.059 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 96 Resp: 6495

Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	296.6
98	63.3	0.0	130.4



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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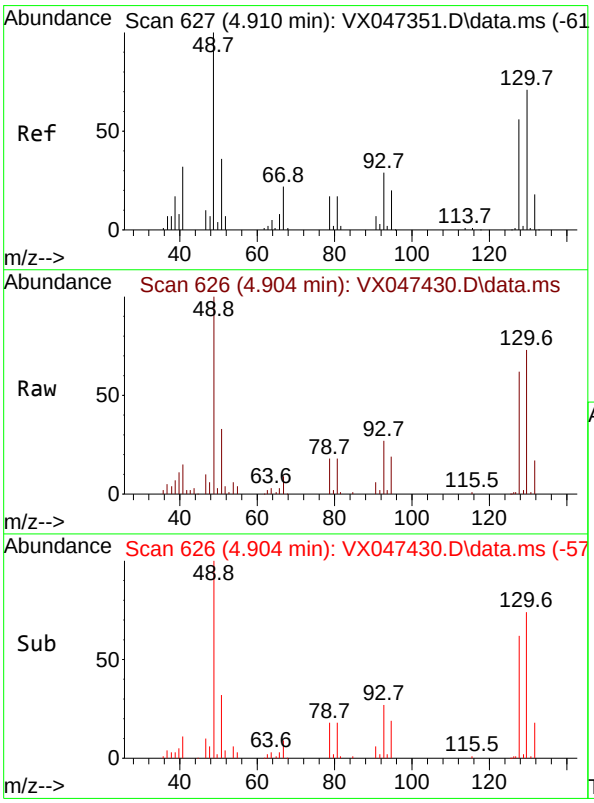
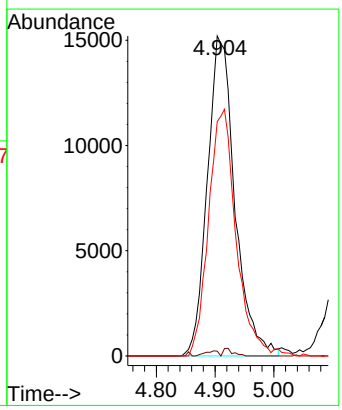
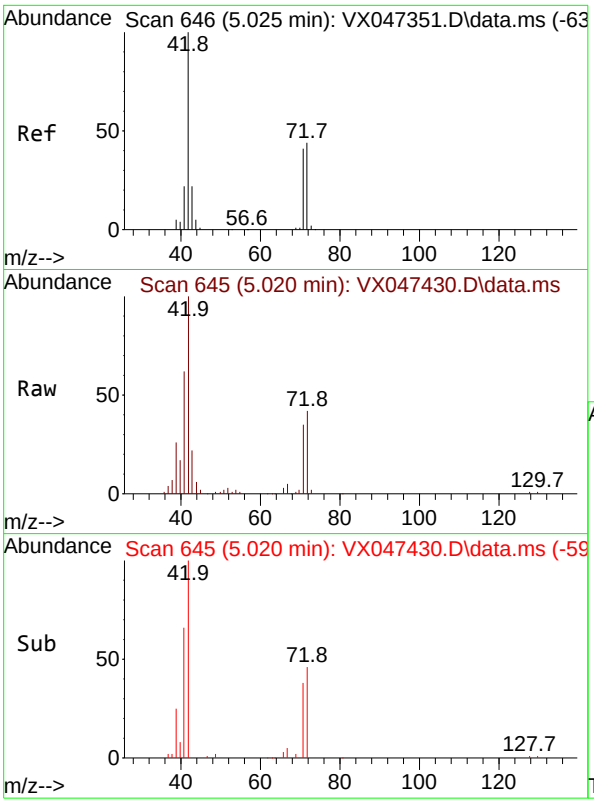


#28
Bromochloromethane
Concen: 19.883 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 49 Resp: 49457

Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	4.0
130	0.0	59.8	89.6#

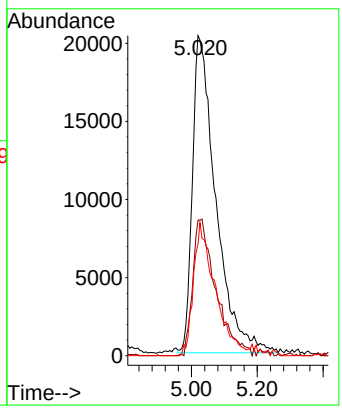




#29
Tetrahydrofuran
Concen: 92.088 ug/l
RT: 5.020 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 42 Resp: 10032

Ion	Ratio	Lower	Upper
42	100		
72	42.5	34.6	51.8
71	38.6	32.6	49.0



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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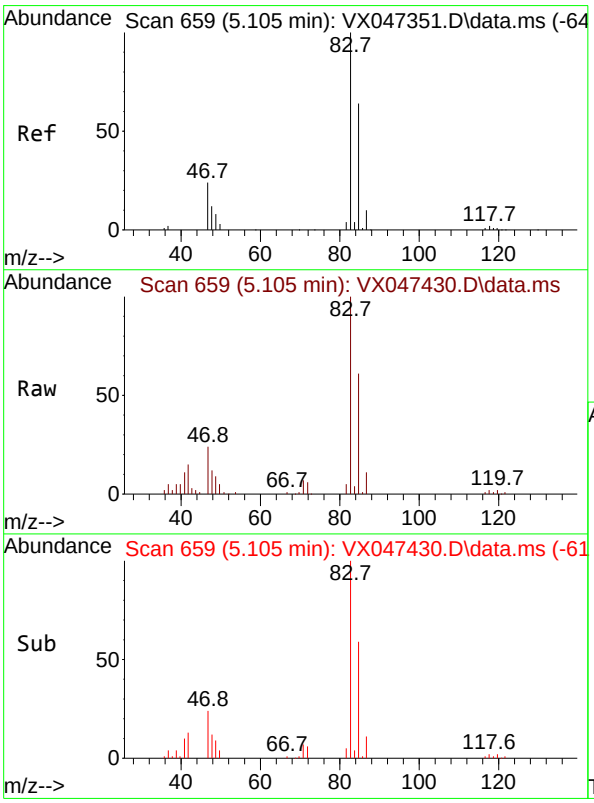
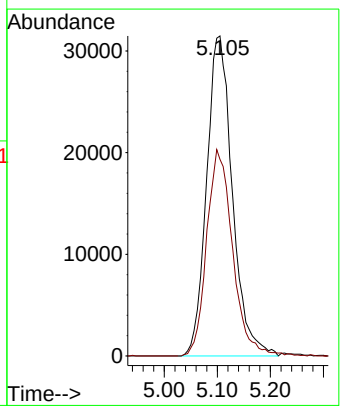
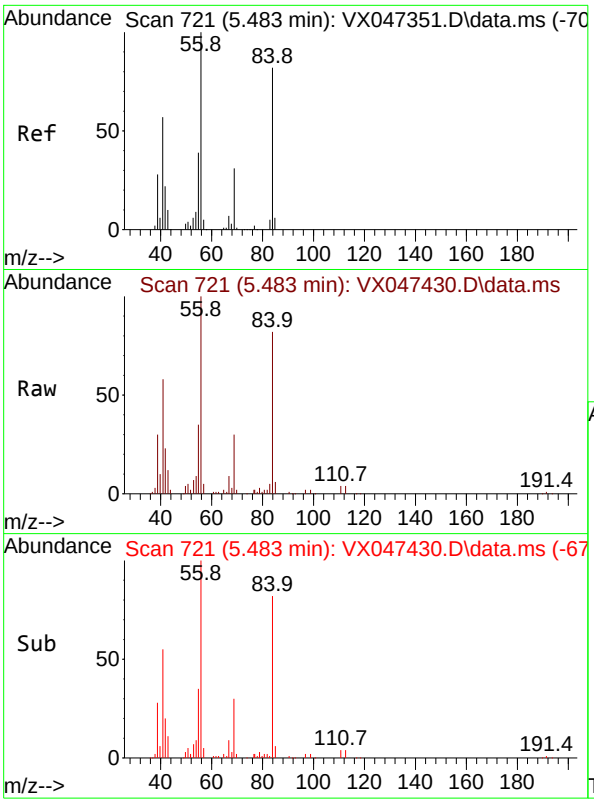


#30
Chloroform
Concen: 17.414 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 83 Resp: 106236

Ion	Ratio	Lower	Upper
83	100		
85	61.4	51.2	76.8

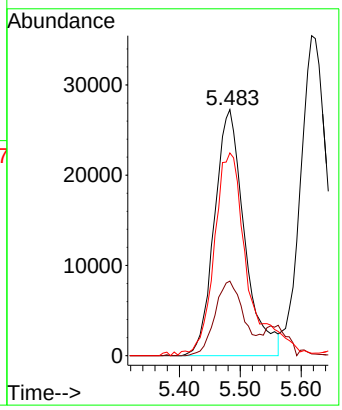




#31
Cyclohexane
Concen: 16.971 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 56 Resp: 9351

Ion	Ratio	Lower	Upper
56	100		
69	30.3	24.3	36.5
84	82.1	65.3	97.9



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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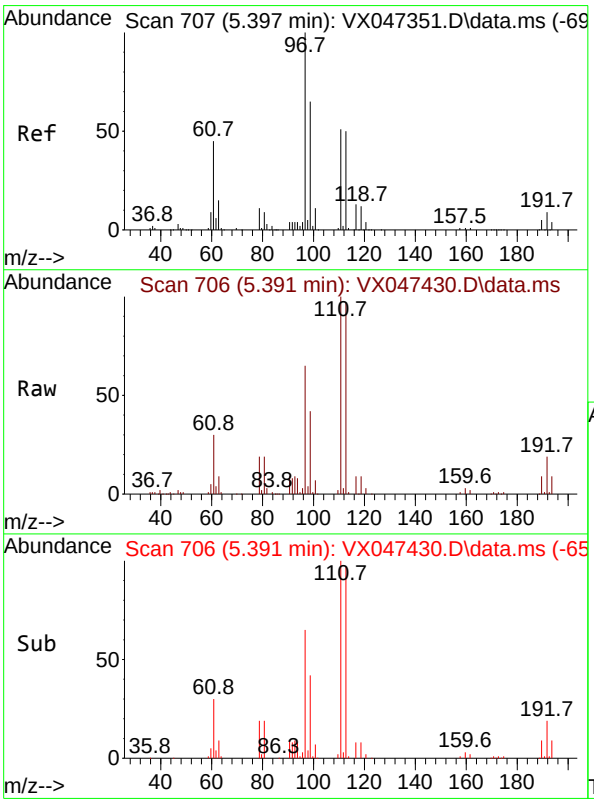
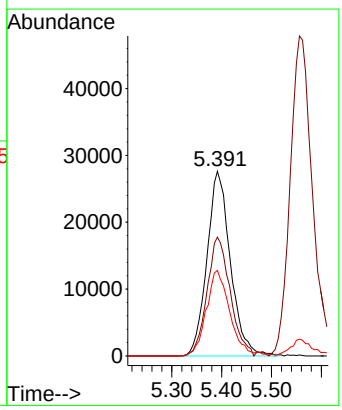
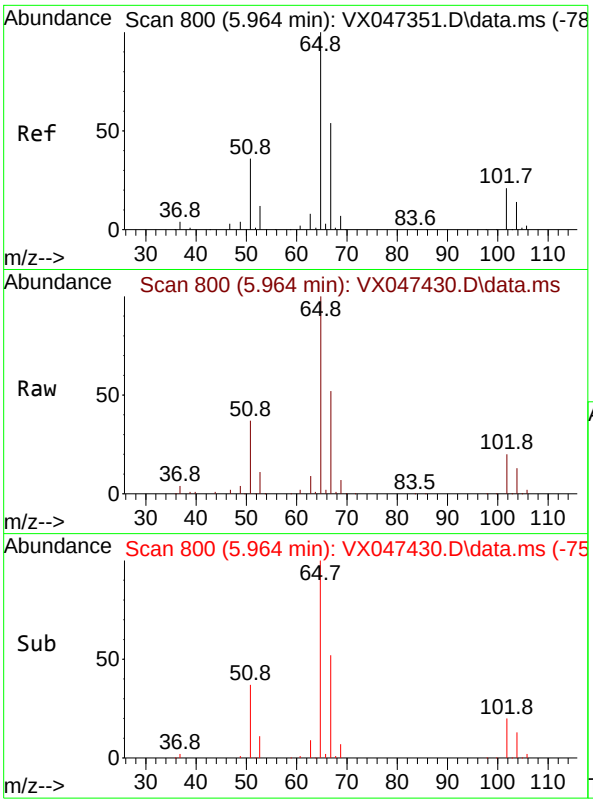


#32
1,1,1-Trichloroethane
Concen: 17.183 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 97 Resp: 90227

Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.4	77.0
61	46.6	35.7	53.5

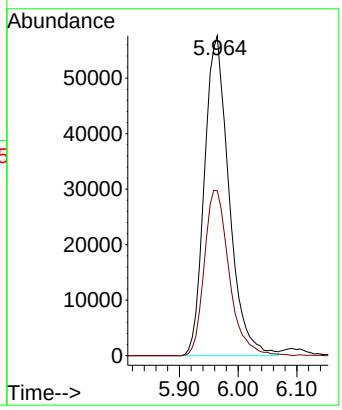




#33
1,2-Dichloroethane-d4
Concen: 49.014 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 65 Resp: 16781

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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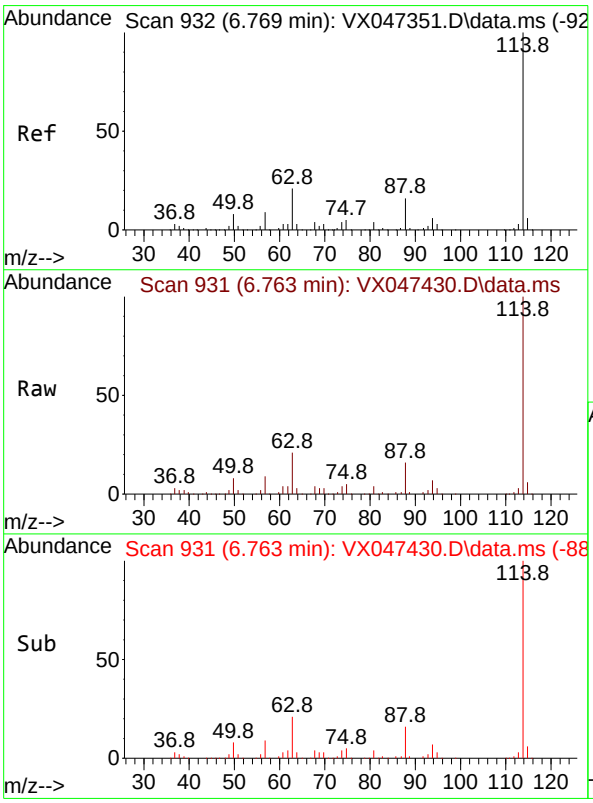
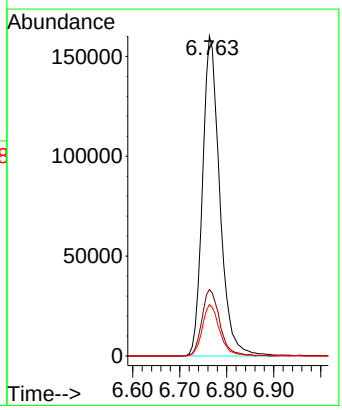
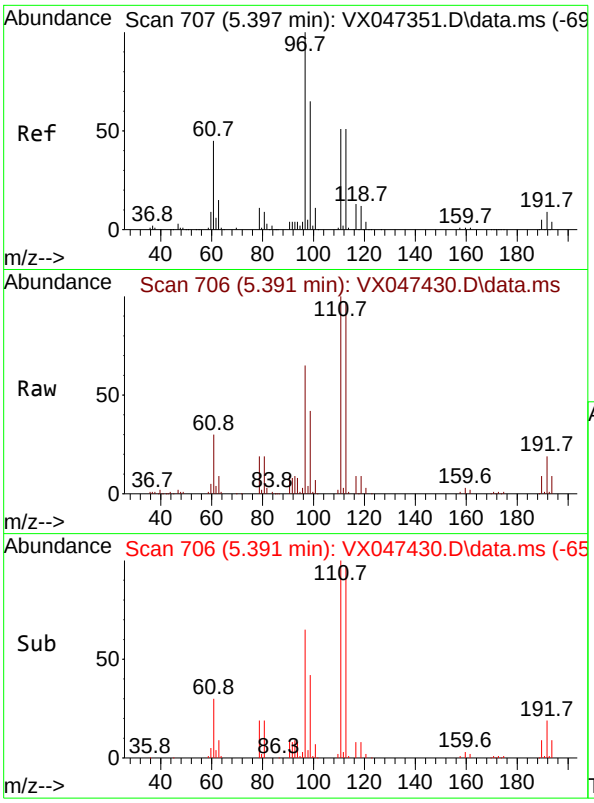


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:114 Resp: 407608

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	42.4
88	16.0	0.0	33.0

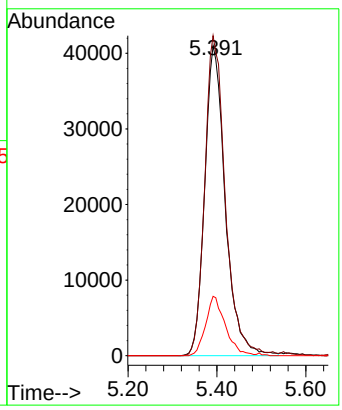




#35
Dibromofluoromethane
Concen: 49.849 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:113 Resp: 13187

Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.4	122.2
192	18.3	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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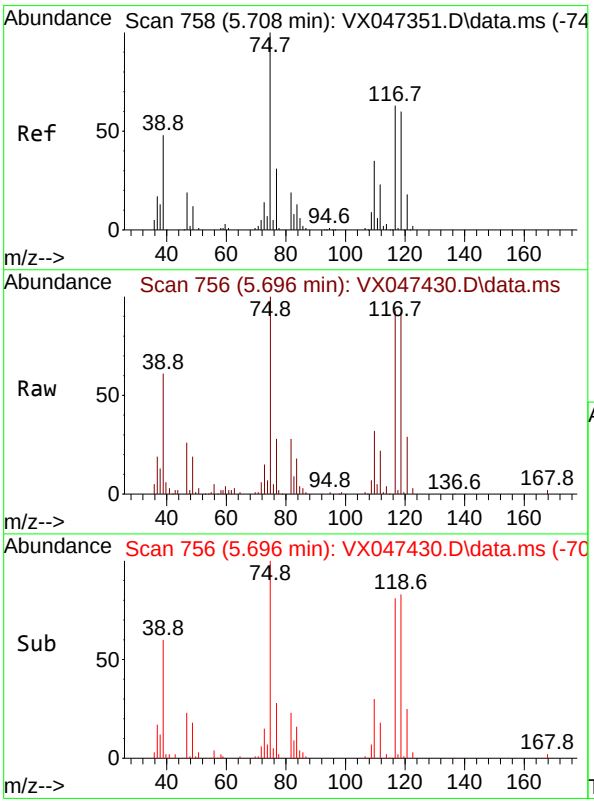
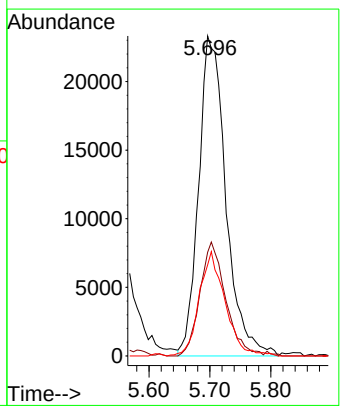
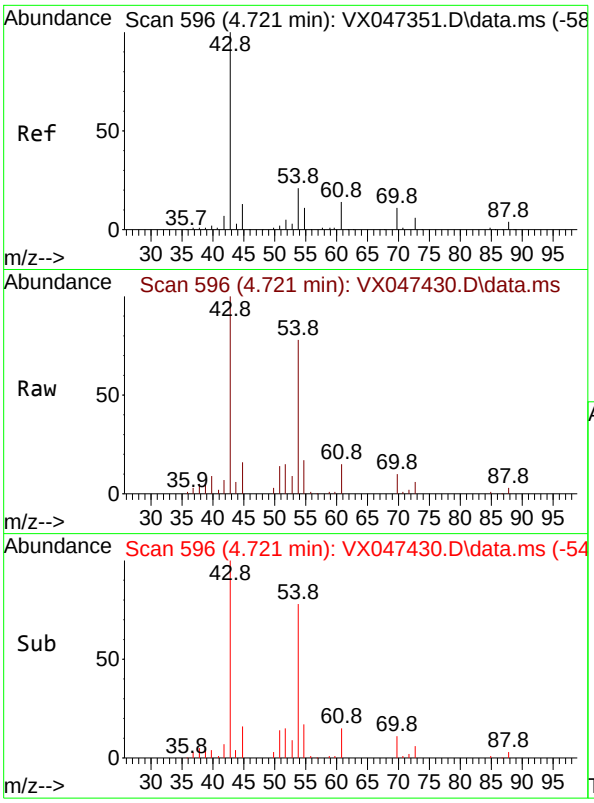


#36
1,1-Dichloropropene
Concen: 17.363 ug/l
RT: 5.696 min Scan# 756
Delta R.T. -0.012 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 75 Resp: 72507

Ion	Ratio	Lower	Upper
75	100		
110	33.7	17.4	52.2
77	31.0	24.4	36.6

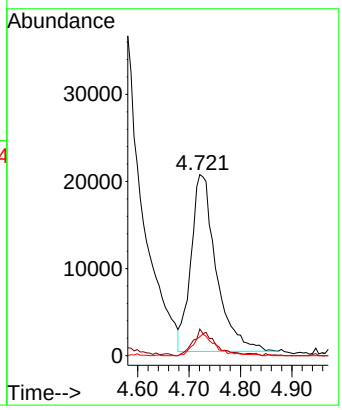




#37
Ethyl Acetate
Concen: 16.002 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 43 Resp: 6937

Ion	Ratio	Lower	Upper
43	100		
61	12.7	9.4	14.2
70	10.8	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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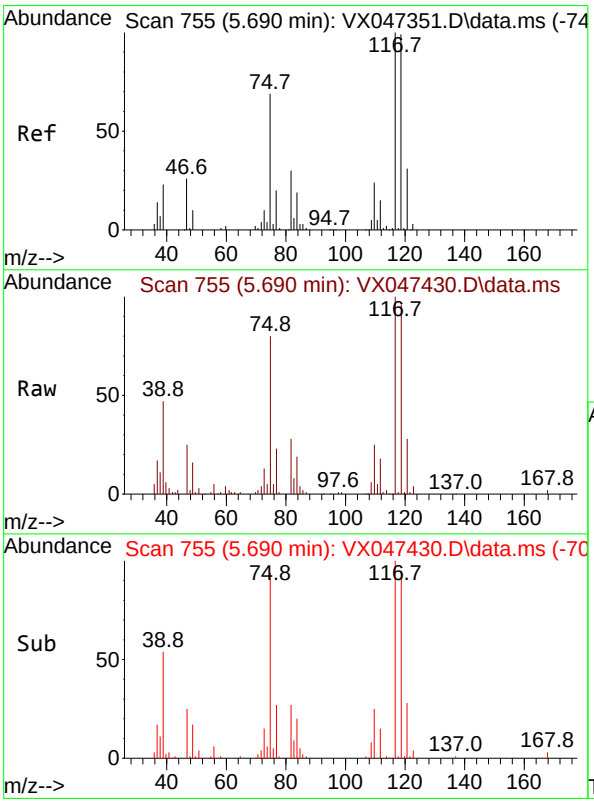
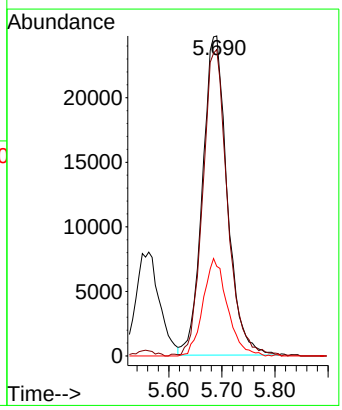
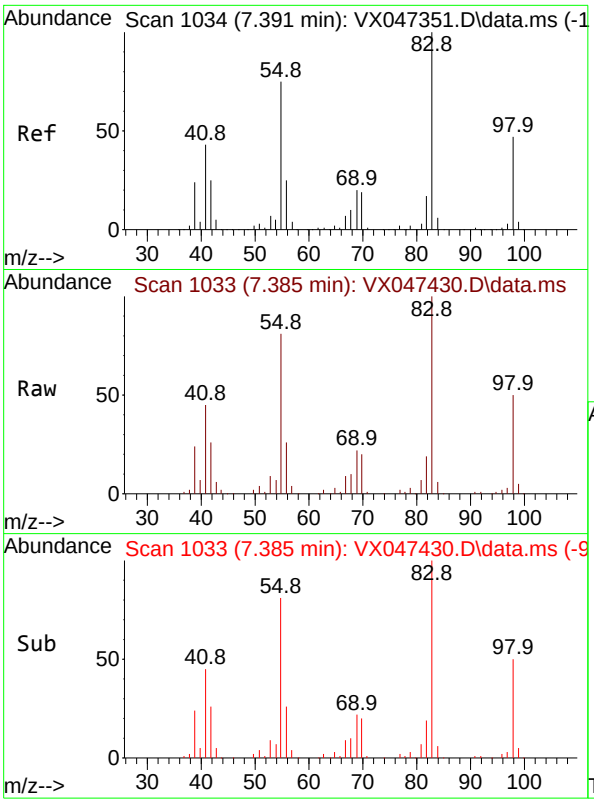


#38
Carbon Tetrachloride
Concen: 17.538 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:117 Resp: 80032

Ion	Ratio	Lower	Upper
117	100		
119	95.7	78.5	117.7
121	28.1	24.7	37.1

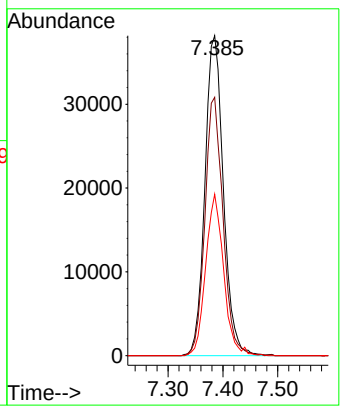




#39
Methylcyclohexane
Concen: 17.110 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 83 Resp: 8912

Ion	Ratio	Lower	Upper
83	100		
55	80.7	60.0	90.0
98	50.5	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Manual Integrations
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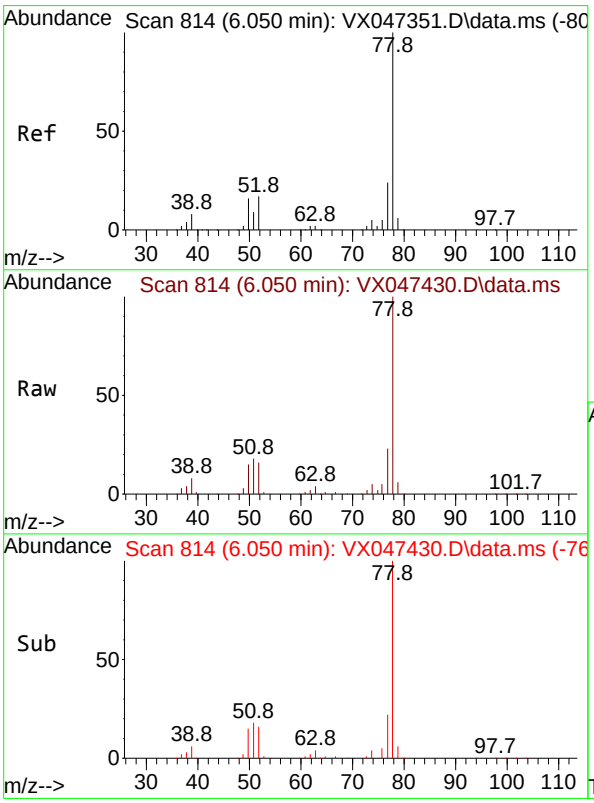
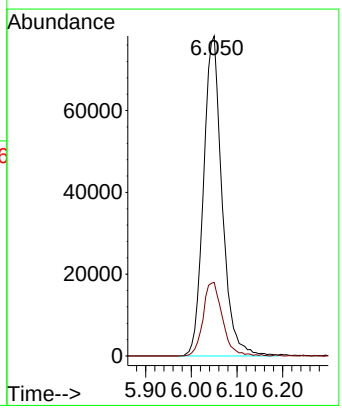
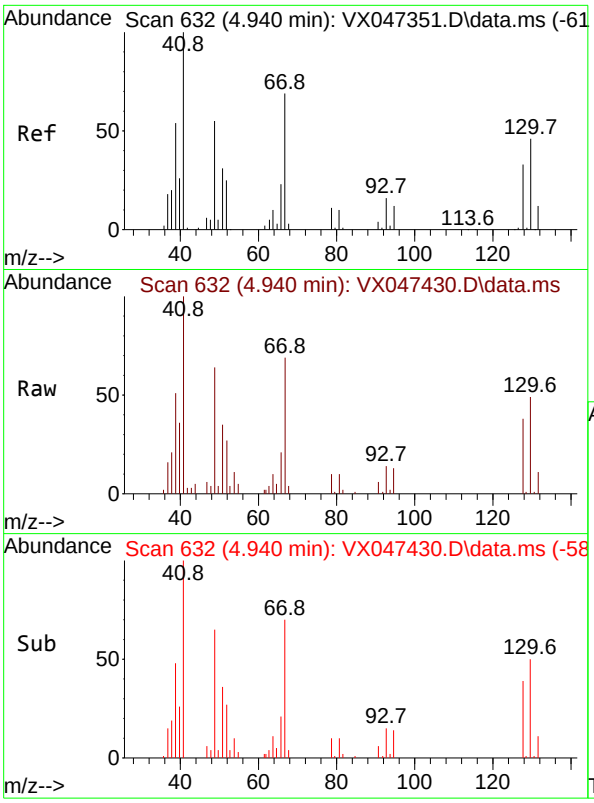


#40
Benzene
Concen: 17.630 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 78 Resp: 220365

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.0	28.4

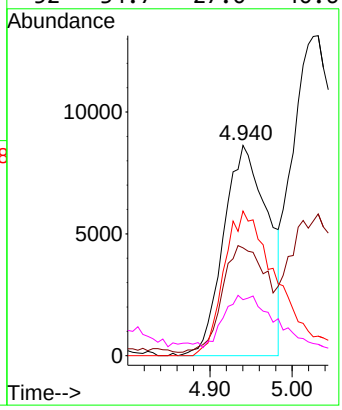




#41
Methacrylonitrile
Concen: 17.692 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 41 Resp: 3234

Ion	Ratio	Lower	Upper
41	100		
39	49.3	45.4	68.2
67	85.8	64.0	96.0
52	34.7	27.0	40.6



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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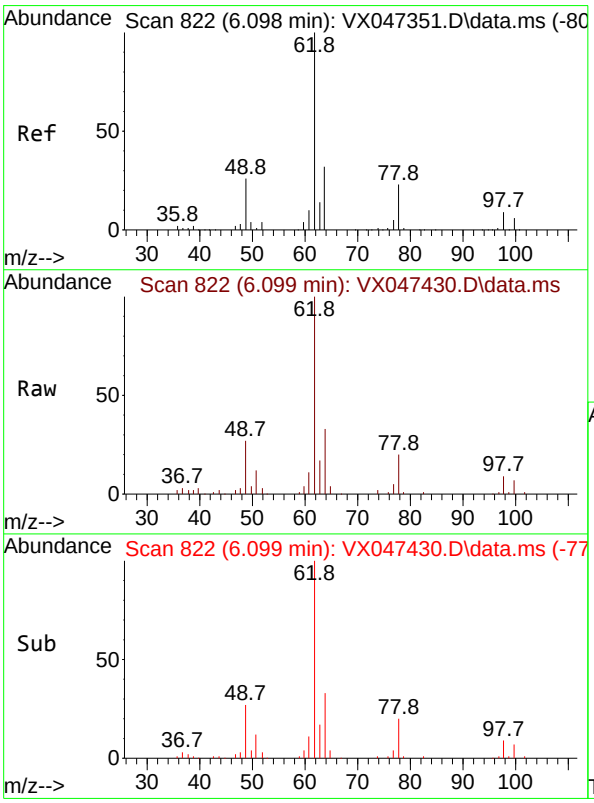
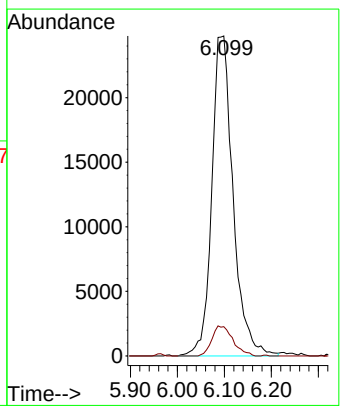
Supervised By :Mahesh Dadoda 08/22/2025

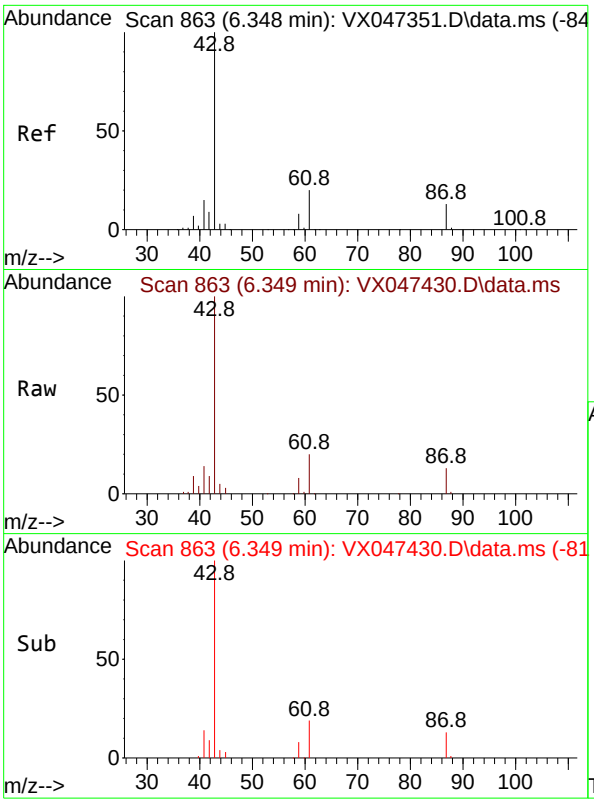


#42
1,2-Dichloroethane
Concen: 17.599 ug/l
RT: 6.099 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 62 Resp: 77919

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.0

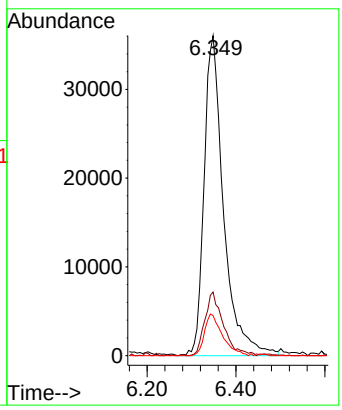




#43
Isopropyl Acetate
Concen: 17.688 ug/l
RT: 6.349 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 43 Resp: 11016

Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.4	23.0
87	12.0	10.2	15.4



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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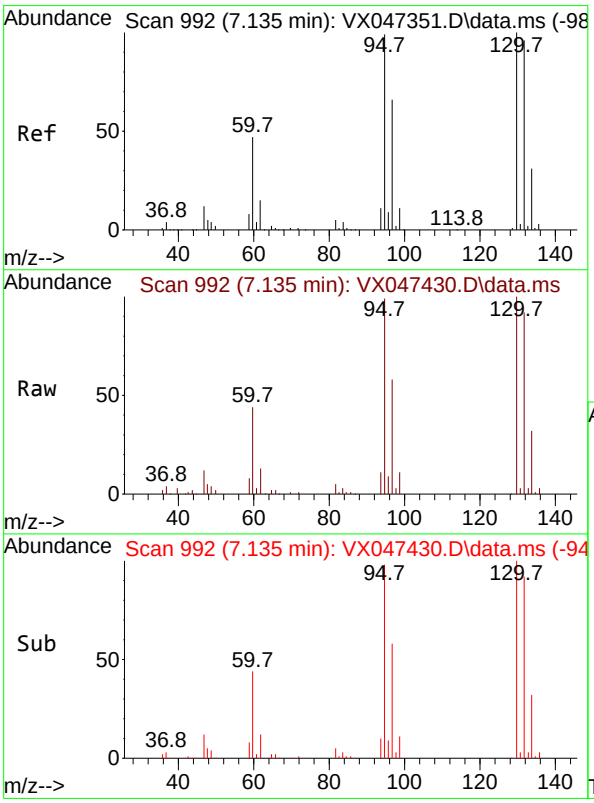
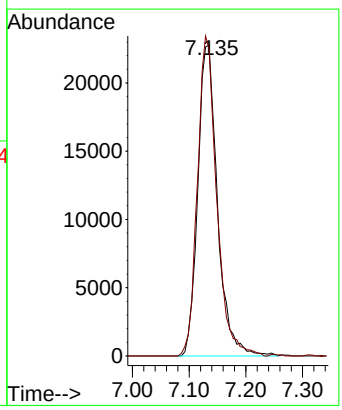
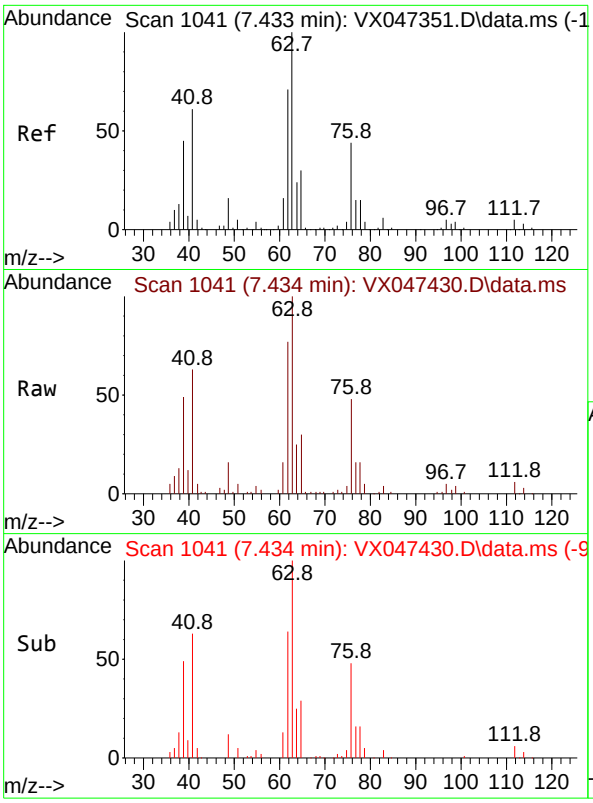


#44
Trichloroethene
Concen: 17.170 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:130 Resp: 54954

Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	198.6

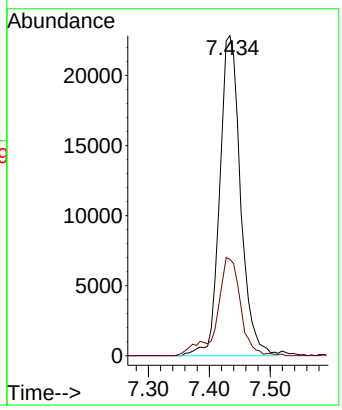




#45
1,2-Dichloropropane
Concen: 17.332 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 63 Resp: 5427

Ion	Ratio	Lower	Upper
63	100		
65	29.8	23.8	35.6



Instrument :
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ClientSampleId :
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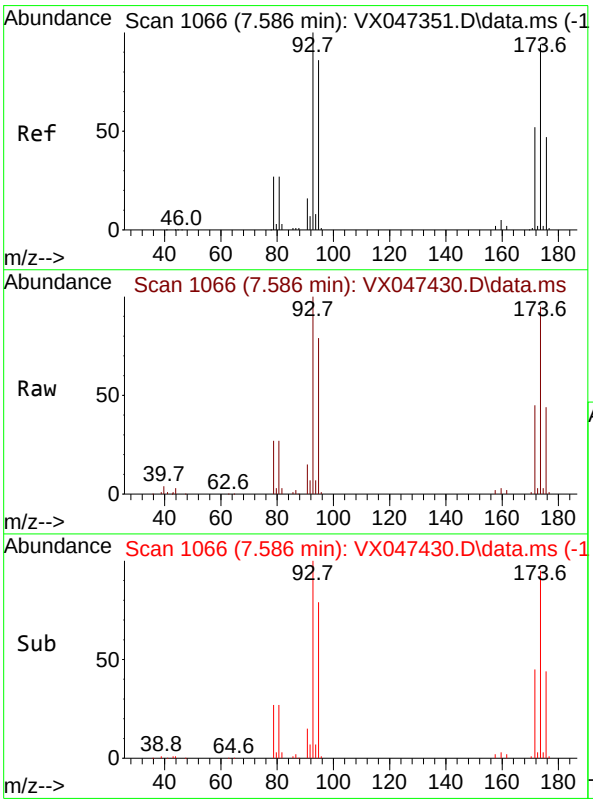
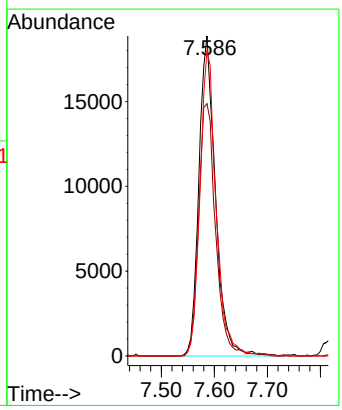
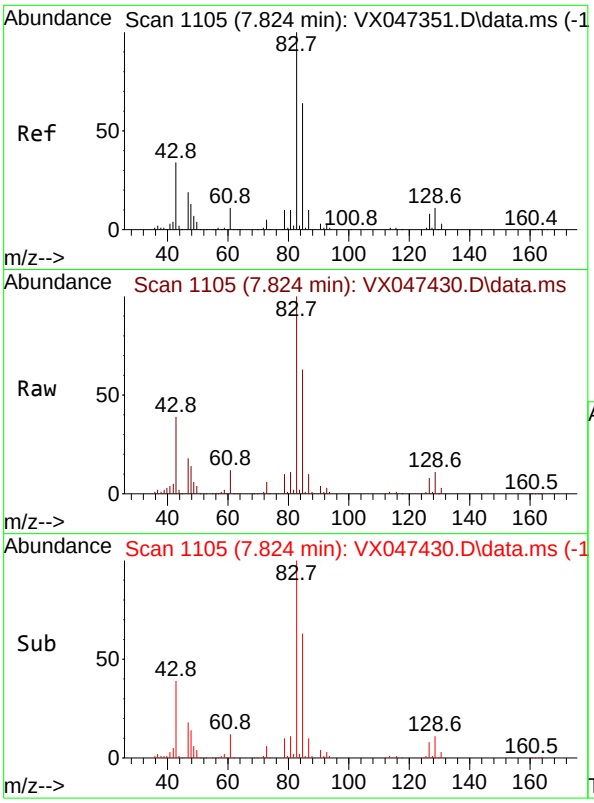


#46
Dibromomethane
Concen: 17.902 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 93 Resp: 40698

Ion	Ratio	Lower	Upper
93	100		
95	81.8	68.0	102.0
174	93.4	75.8	113.6

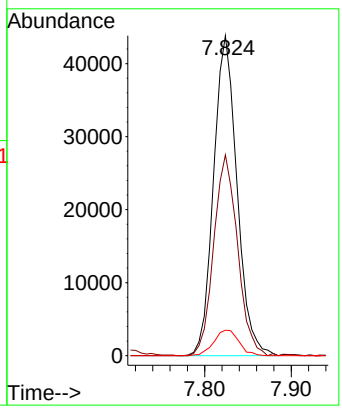




#47
Bromodichloromethane
Concen: 17.469 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 83 Resp: 8232

Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.0	76.6
127	8.0	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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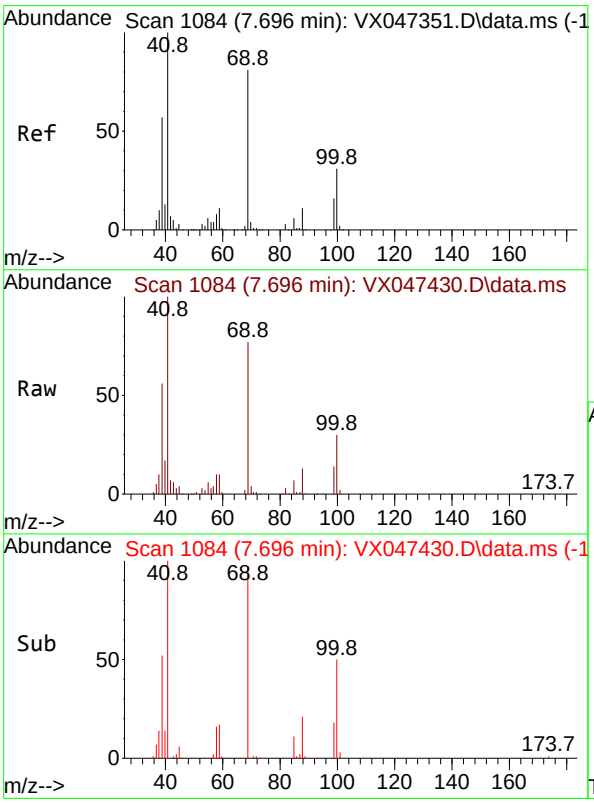
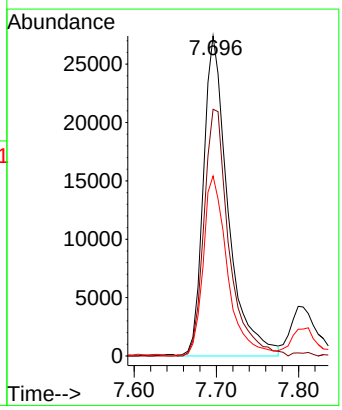
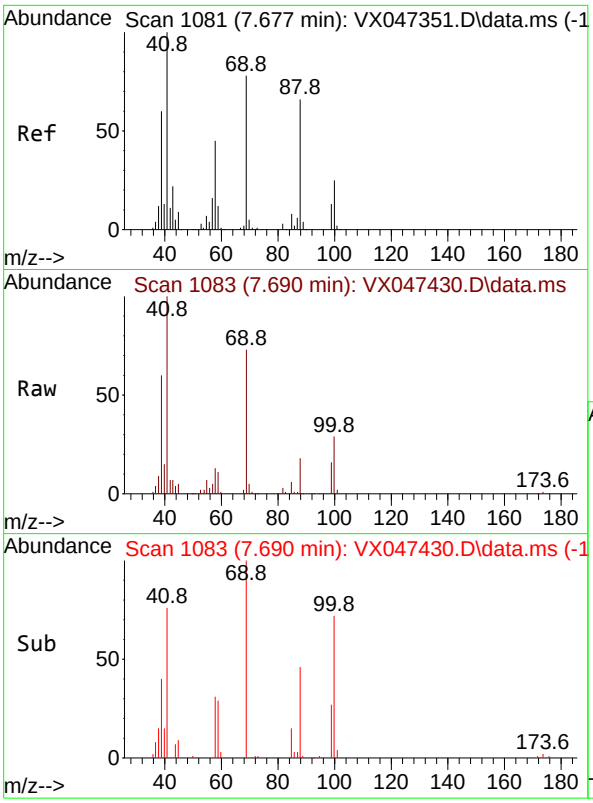


#48
Methyl methacrylate
Concen: 17.587 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 41 Resp: 56854

Ion	Ratio	Lower	Upper
41	100		
69	78.3	65.0	97.4
39	55.6	45.7	68.5





#49
1,4-Dioxane
Concen: 362.941 ug/l
RT: 7.690 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 88 Resp: 1140

Ion	Ratio	Lower	Upper
88	100		
43	47.6	32.4	48.6
58	75.2	56.9	85.3

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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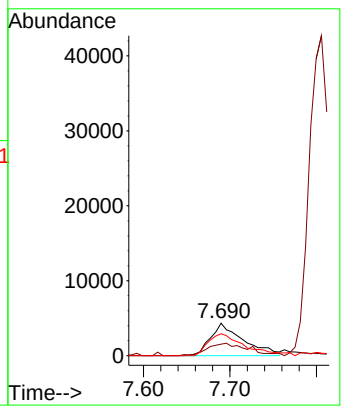
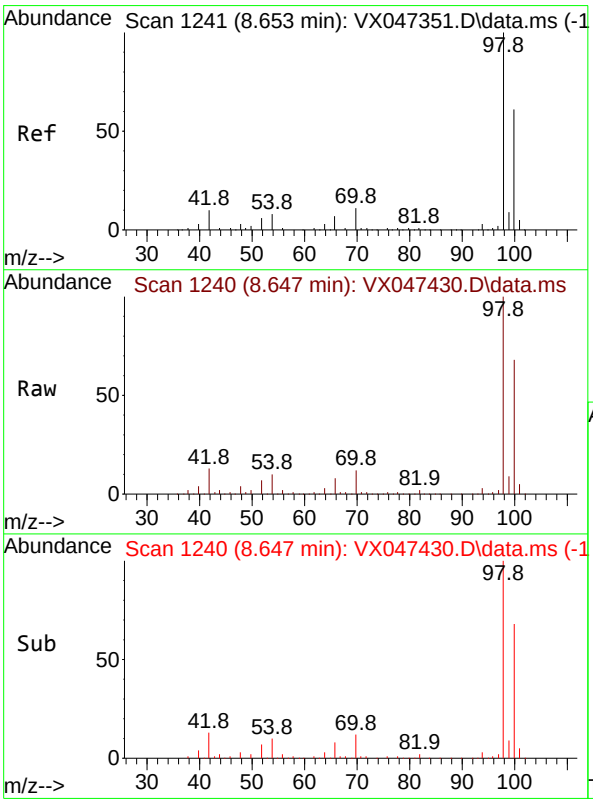
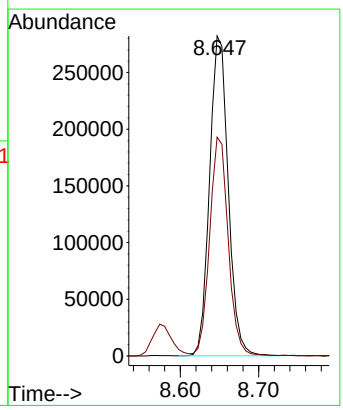


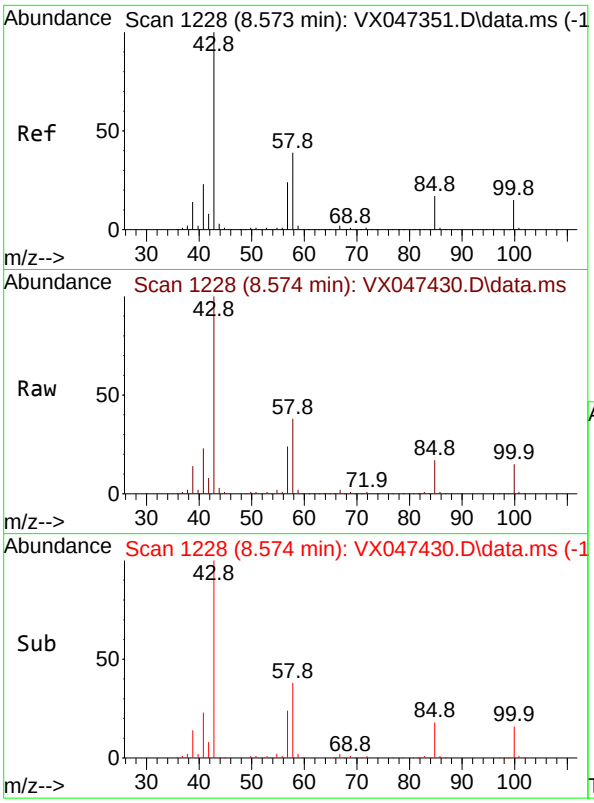


#50
Toluene-d8
Concen: 49.239 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 98 Resp: 465580

Ion	Ratio	Lower	Upper
98	100		
100	68.0	53.9	80.9

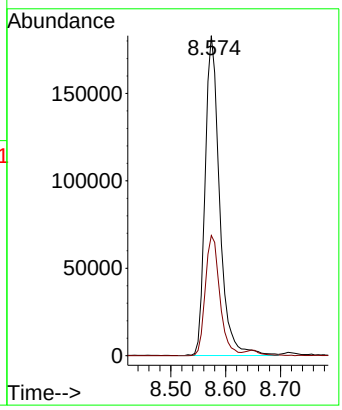




#51
4-Methyl-2-Pentanone
Concen: 93.506 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 43 Resp: 33512

Ion	Ratio	Lower	Upper
43	100		
58	37.6	31.2	46.8



Instrument :
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ClientSampleId :
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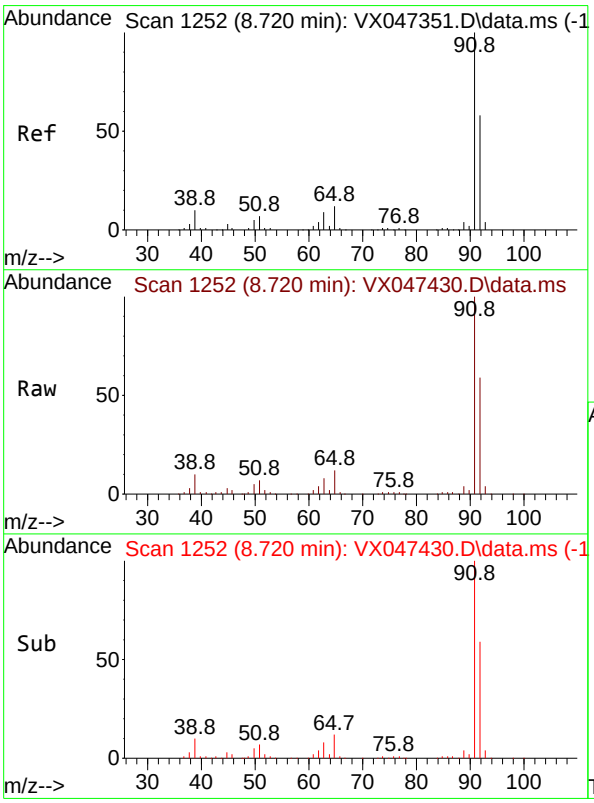
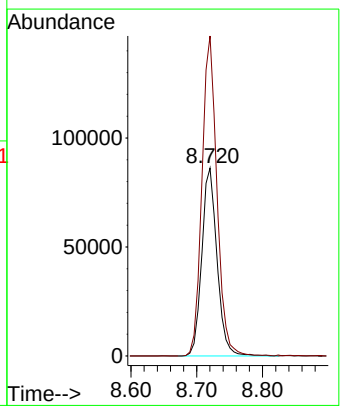
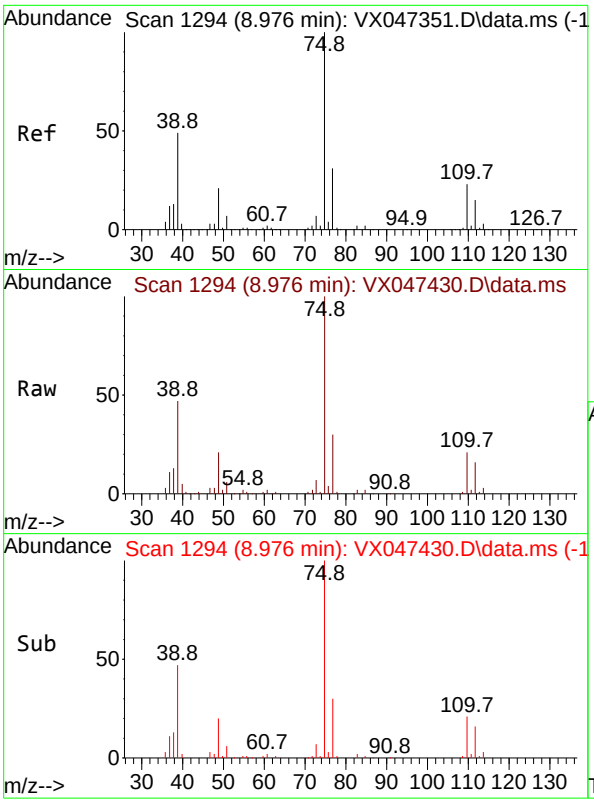


#52
Toluene
Concen: 17.981 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 92 Resp: 138882

Ion	Ratio	Lower	Upper
92	100		
91	168.0	136.3	204.5

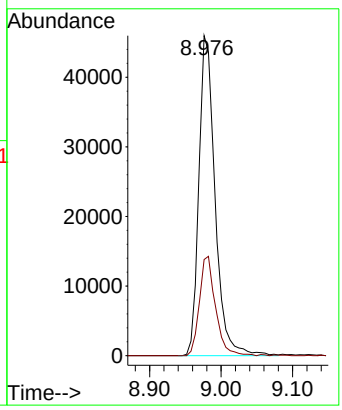




#53
t-1,3-Dichloropropene
Concen: 17.602 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 75 Resp: 7240

Ion	Ratio	Lower	Upper
75	100		
77	30.1	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
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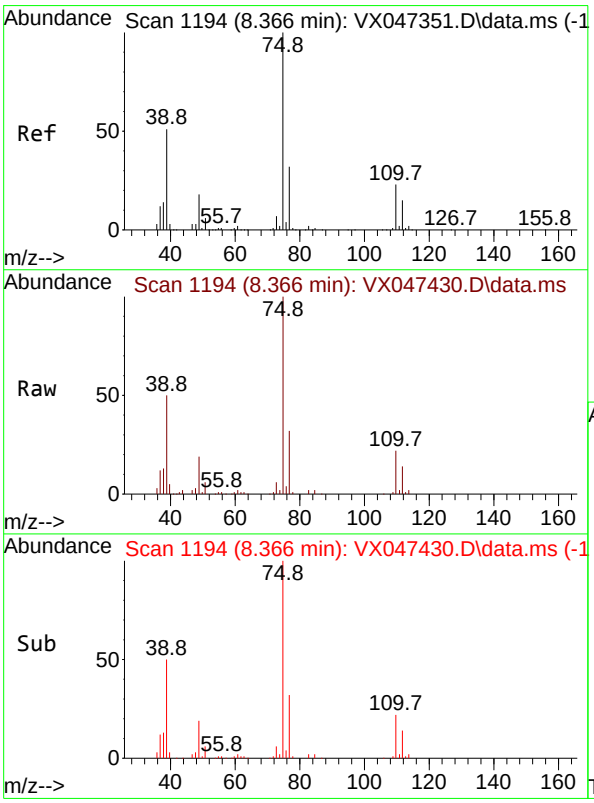
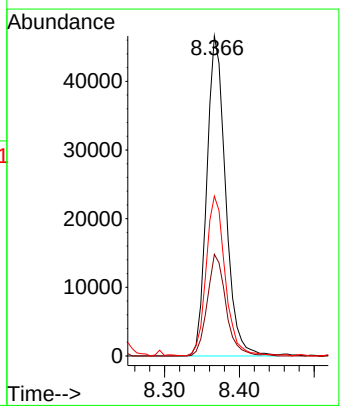
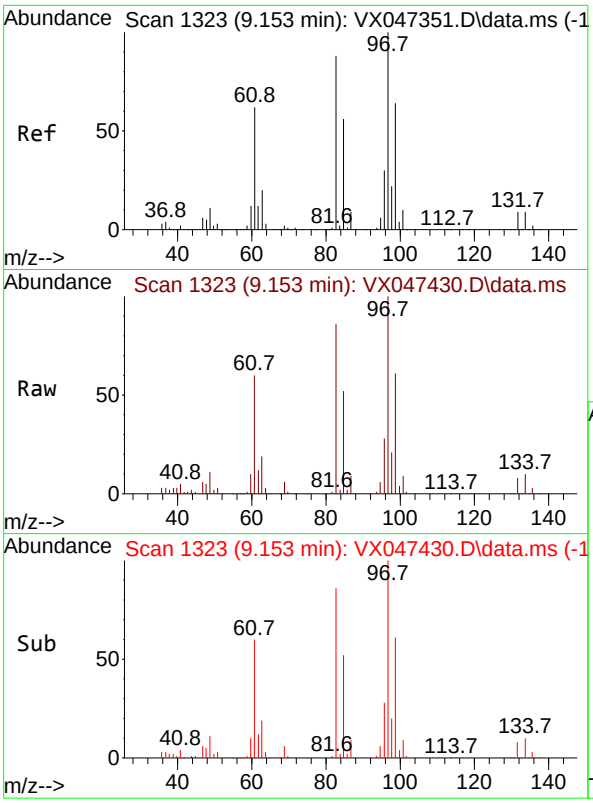


#54
cis-1,3-Dichloropropene
Concen: 17.445 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 75 Resp: 81220

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.6	38.4
39	54.2	40.9	61.3

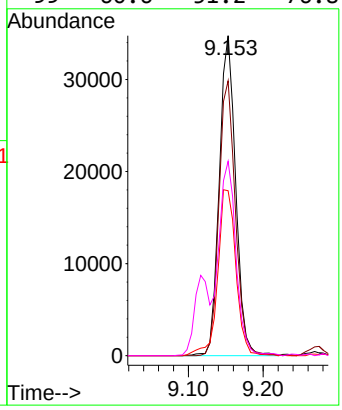




#55
1,1,2-Trichloroethane
Concen: 18.120 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 97 Resp: 5313

Ion	Ratio	Lower	Upper
97	100		
83	85.9	70.6	106.0
85	51.6	44.7	67.1
99	60.6	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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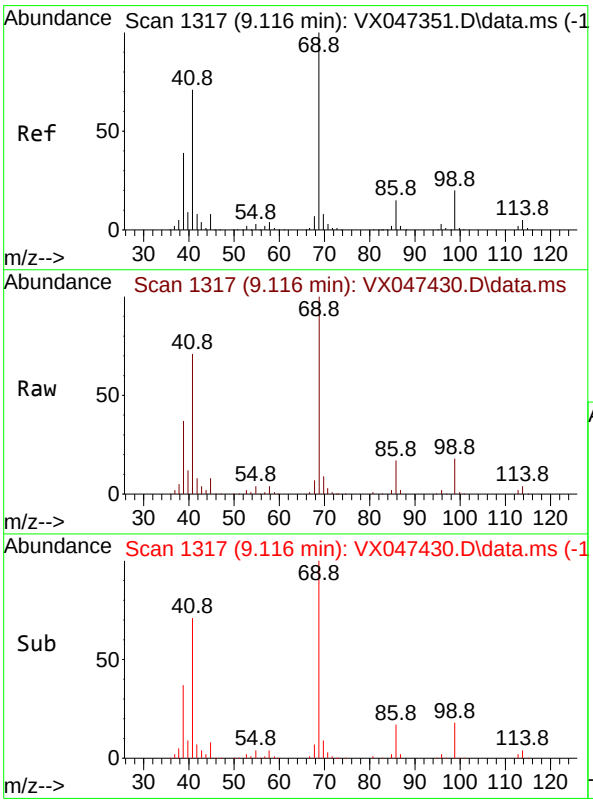
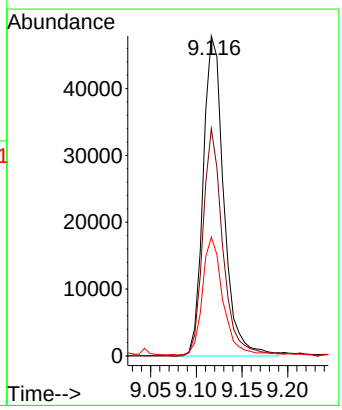
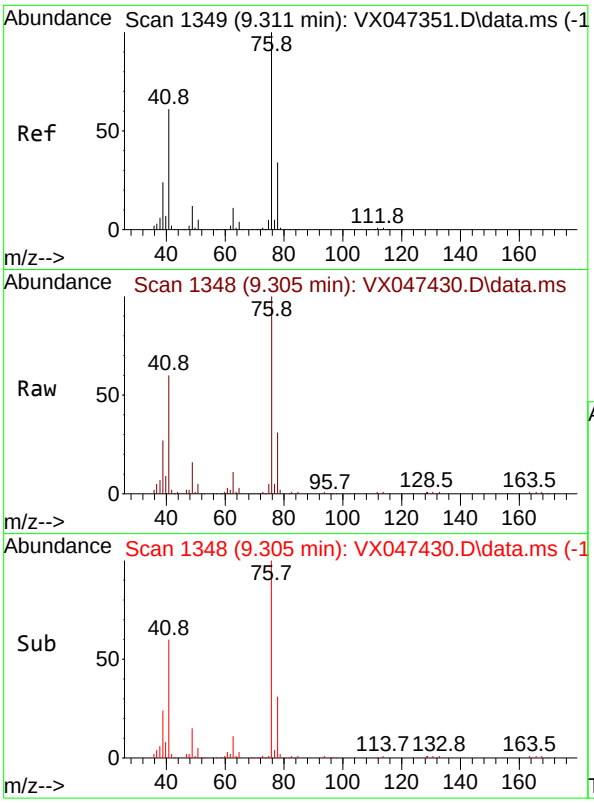


#56
Ethyl methacrylate
Concen: 17.389 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 69 Resp: 75185

Ion	Ratio	Lower	Upper
69	100		
41	69.0	55.3	82.9
39	36.3	30.2	45.2

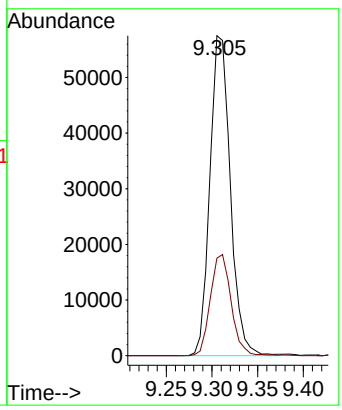




#57
1,3-Dichloropropane
Concen: 17.876 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 76 Resp: 8932

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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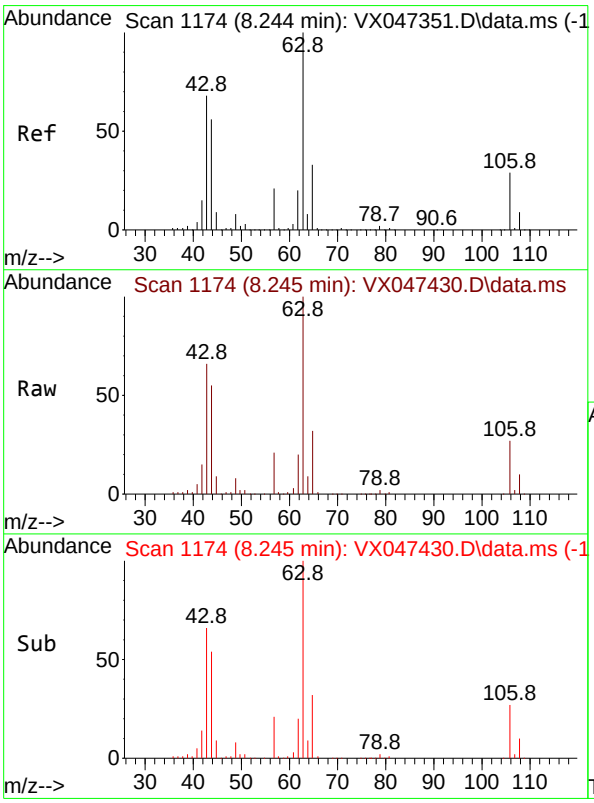
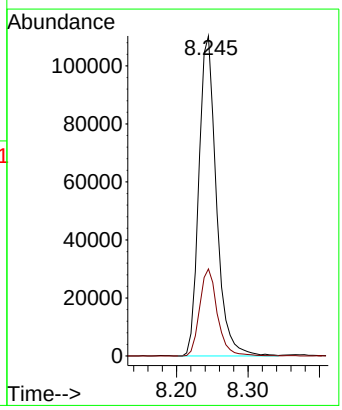
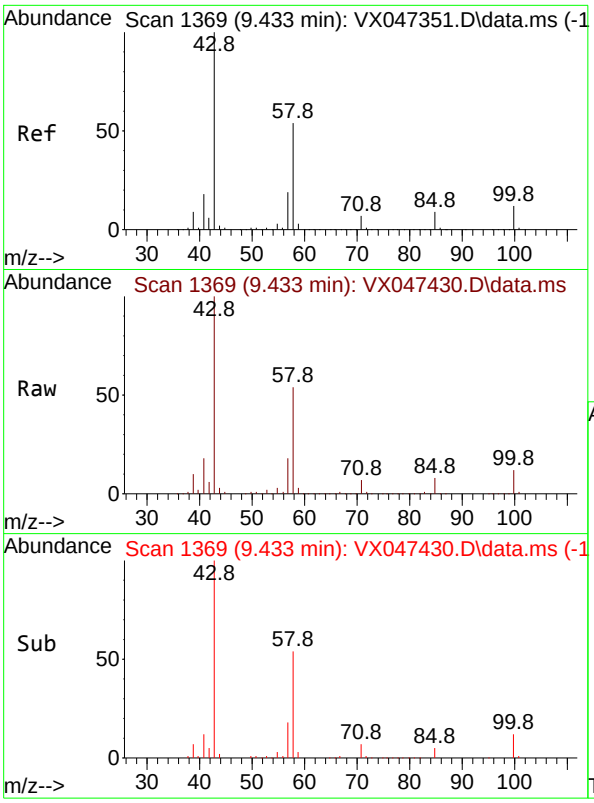


#58
2-Chloroethyl Vinyl ether
Concen: 95.949 ug/l
RT: 8.245 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 63 Resp: 187096

Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.8	34.2

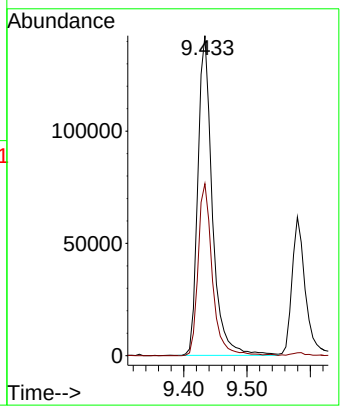




#59
2-Hexanone
Concen: 91.559 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 43 Resp: 22698

Ion	Ratio	Lower	Upper
43	100		
58	52.8	26.9	80.7



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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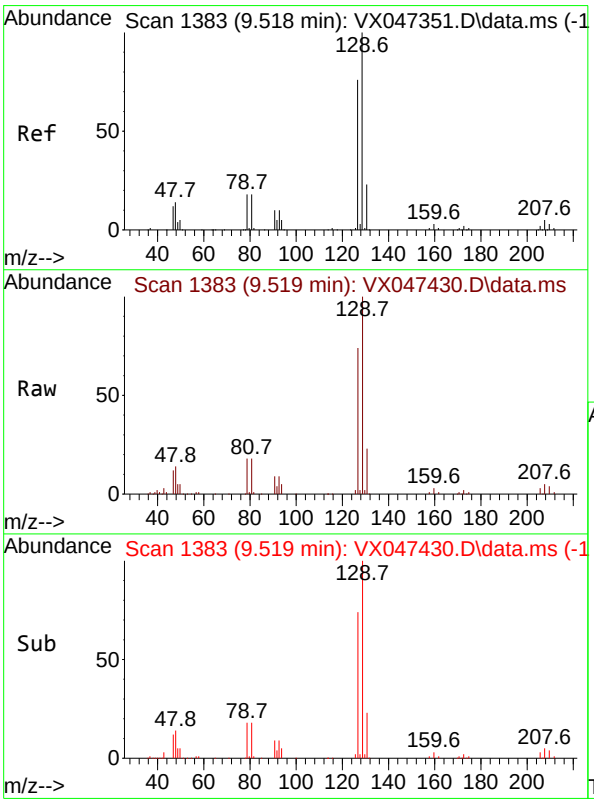
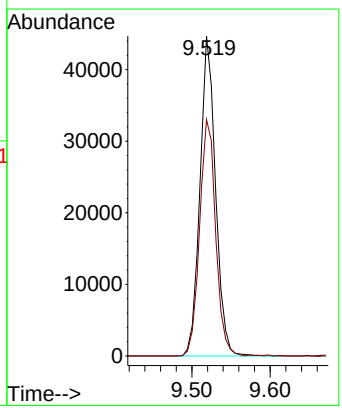
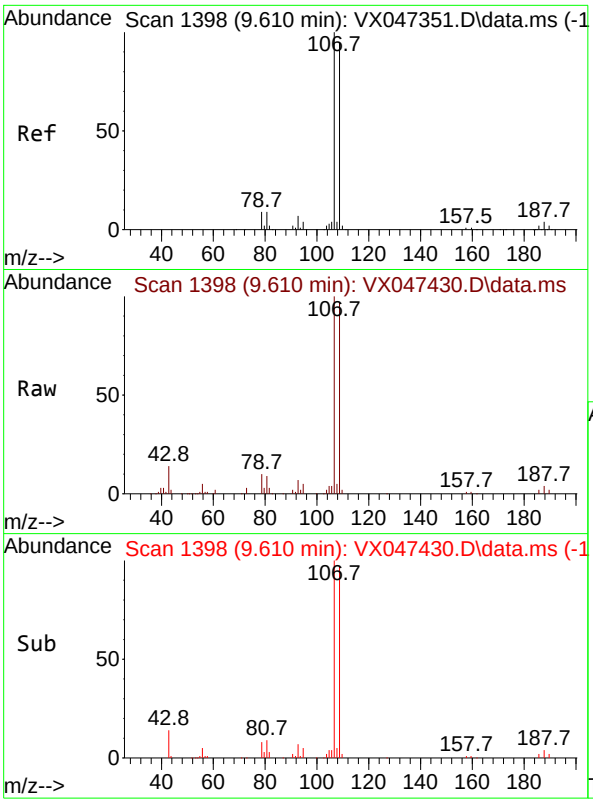


#60
Dibromochloromethane
Concen: 17.691 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:129 Resp: 61655

Ion	Ratio	Lower	Upper
129	100		
127	76.1	38.9	116.6

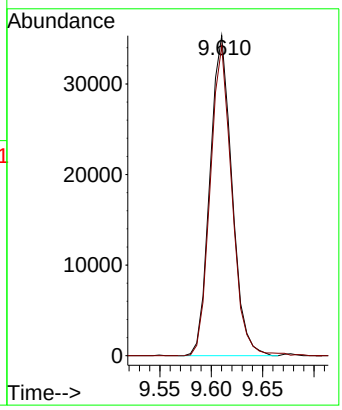




#61
1,2-Dibromoethane
Concen: 17.373 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:107 Resp: 5253

Ion	Ratio	Lower	Upper
107	100		
109	95.3	76.2	114.2



Instrument :
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ClientSampleId :
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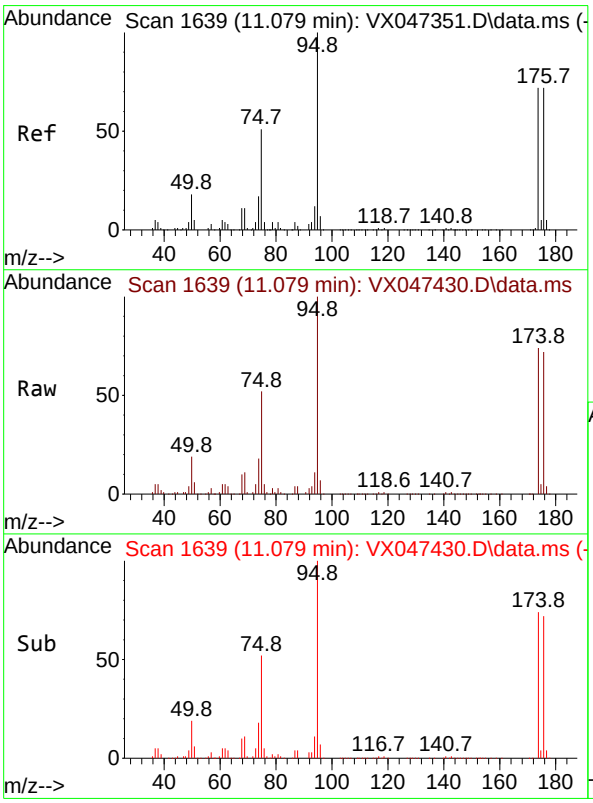
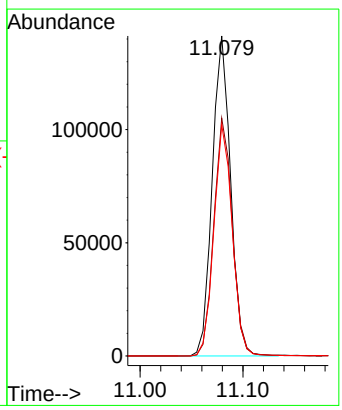
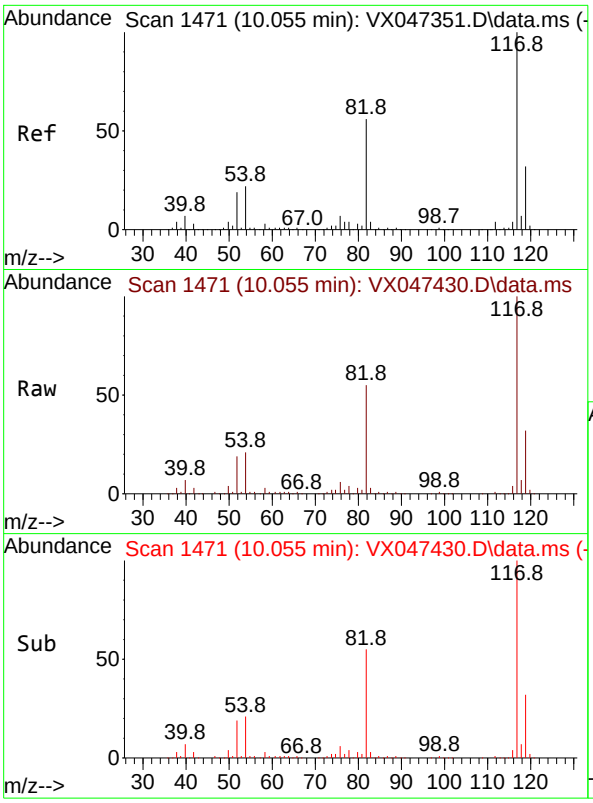


#62
4-Bromofluorobenzene
Concen: 50.176 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 95 Resp: 175075

Ion	Ratio	Lower	Upper
95	100		
174	75.1	0.0	148.0
176	72.5	0.0	145.4

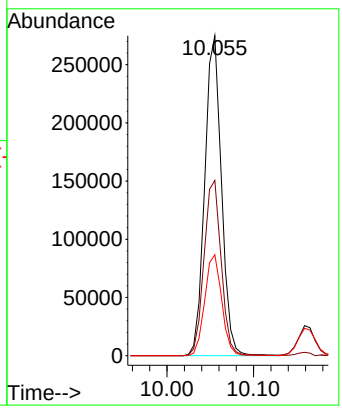




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:117 Resp: 368354

Ion	Ratio	Lower	Upper
117	100		
82	54.7	45.0	67.4
119	31.5	25.8	38.8



Instrument :
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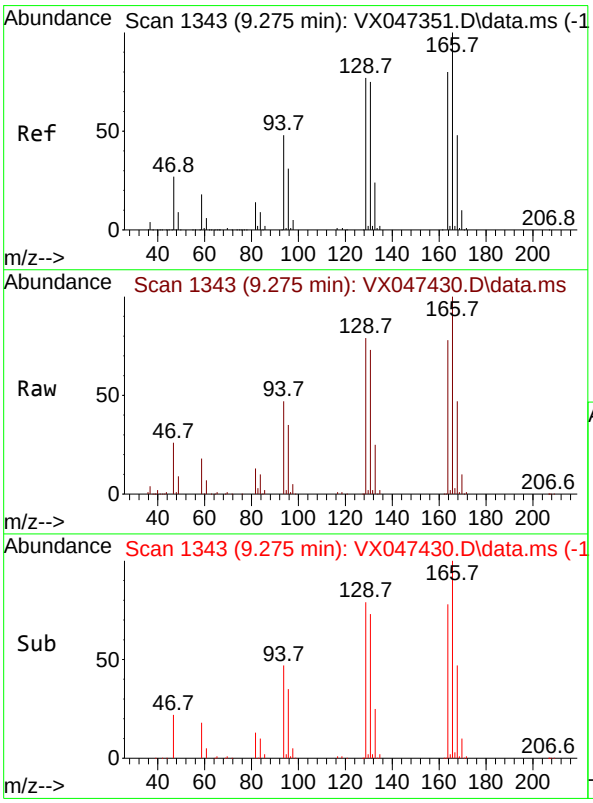
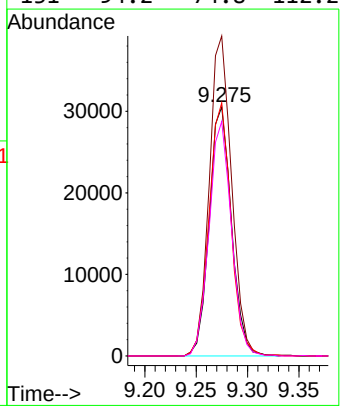
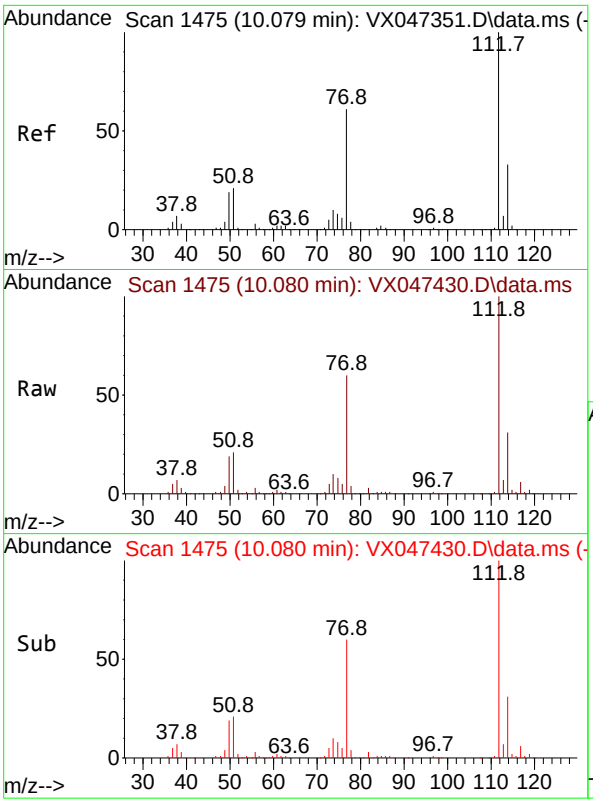


#64
Tetrachloroethene
Concen: 17.239 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:164 Resp: 45932

Ion	Ratio	Lower	Upper
164	100		
166	128.6	100.3	150.5
129	101.7	77.7	116.5
131	94.2	74.8	112.2

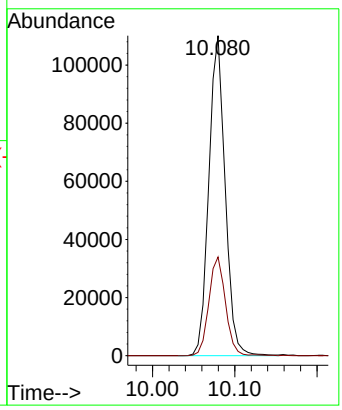




#65
Chlorobenzene
Concen: 17.336 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:112 Resp: 15175

Ion	Ratio	Lower	Upper
112	100		
114	30.9	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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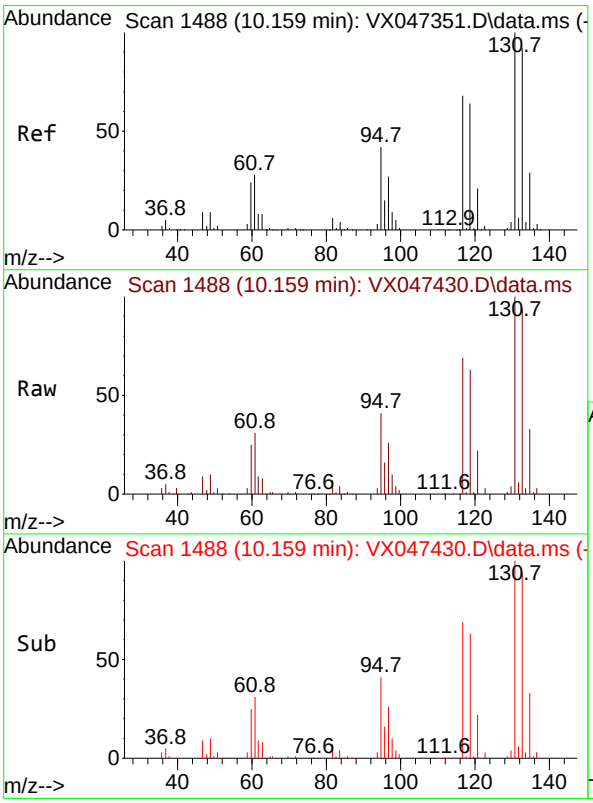
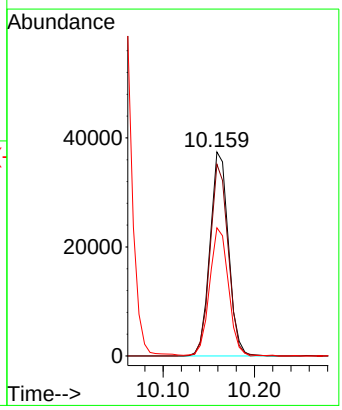
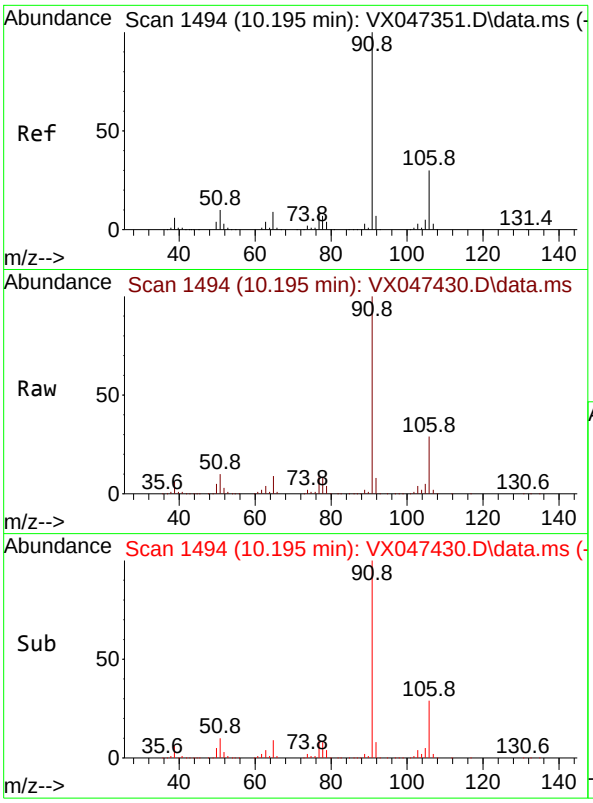


#66
1,1,1,2-Tetrachloroethane
Concen: 17.750 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:131 Resp: 52523

Ion	Ratio	Lower	Upper
131	100		
133	92.8	47.6	142.9
119	63.6	32.3	96.8

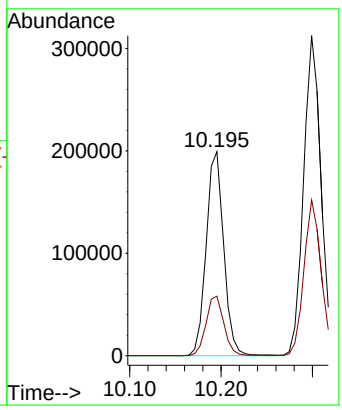




#67
Ethyl Benzene
Concen: 17.561 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 91 Resp: 26457

Ion	Ratio	Lower	Upper
91	100		
106	29.2	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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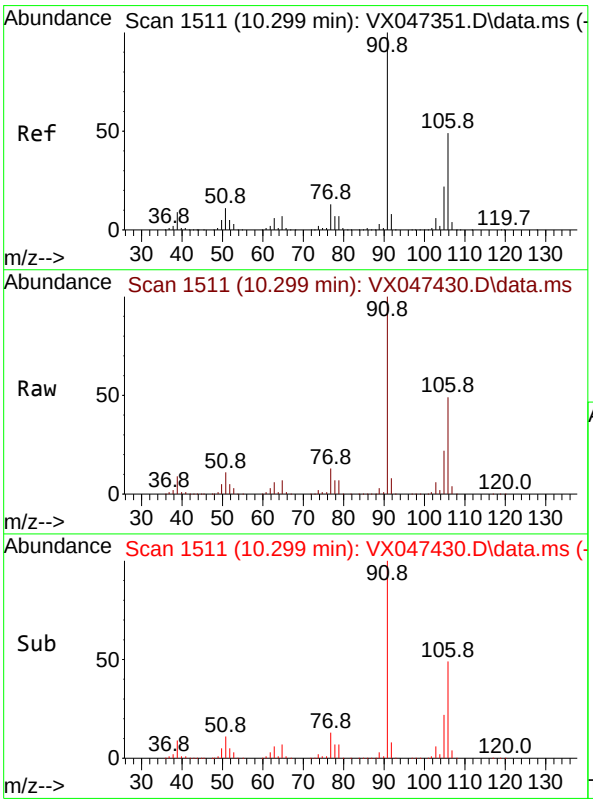
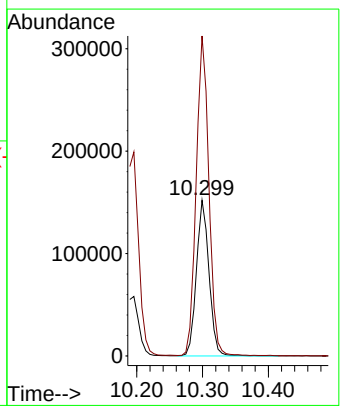
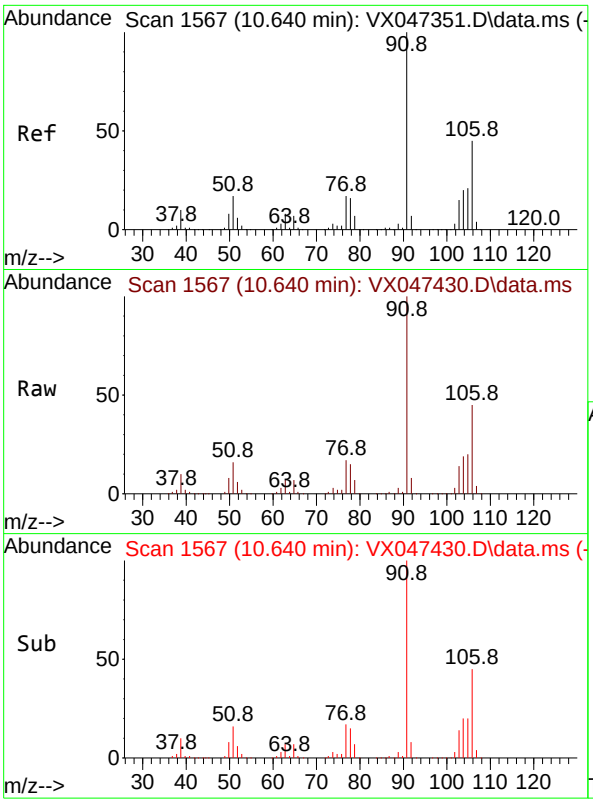


#68
m/p-Xylenes
Concen: 35.769 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:106 Resp: 200944

Ion	Ratio	Lower	Upper
106	100		
91	207.8	164.7	247.1

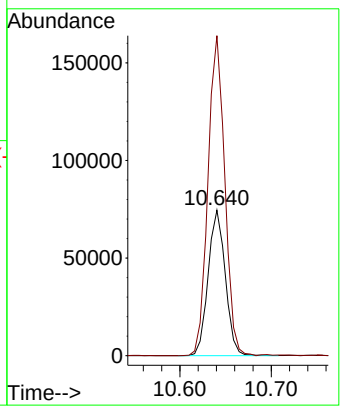




#69
o-Xylene
Concen: 17.943 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:106 Resp: 9700

Ion	Ratio	Lower	Upper
106	100		
91	215.2	110.6	331.8



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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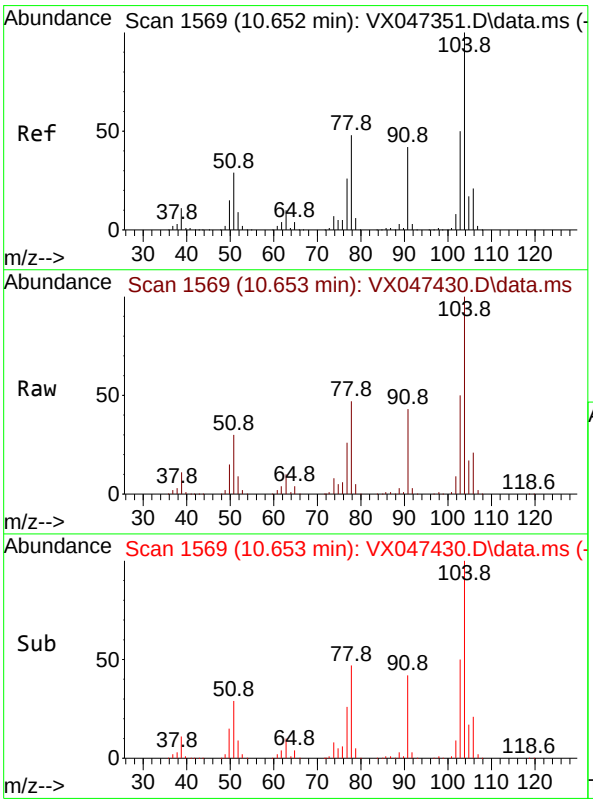
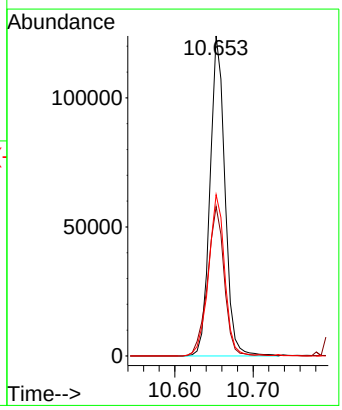
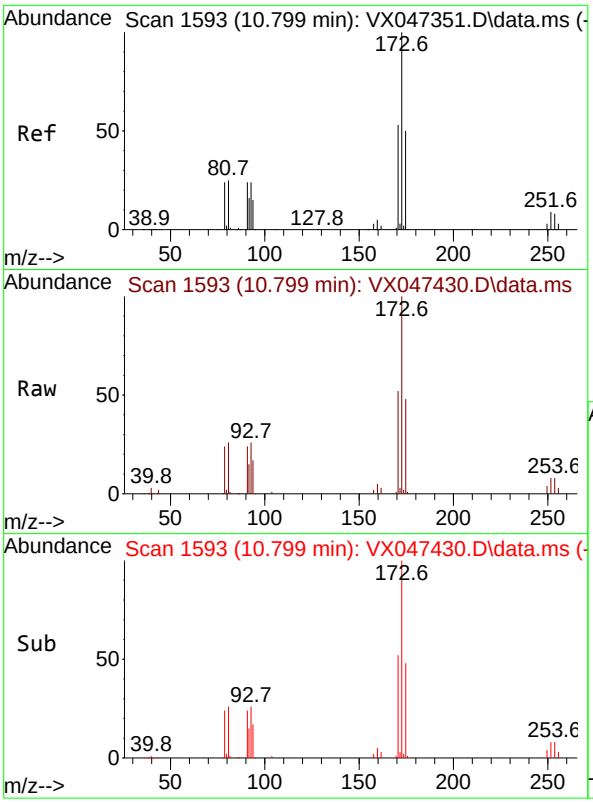


#70
Styrene
Concen: 17.991 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:104 Resp: 164340

Ion	Ratio	Lower	Upper
104	100		
78	52.4	41.8	62.8
103	54.8	43.6	65.4

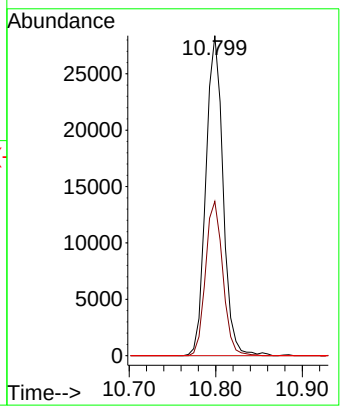




#71
Bromoform
Concen: 17.617 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:173 Resp: 3916

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.4	73.4
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
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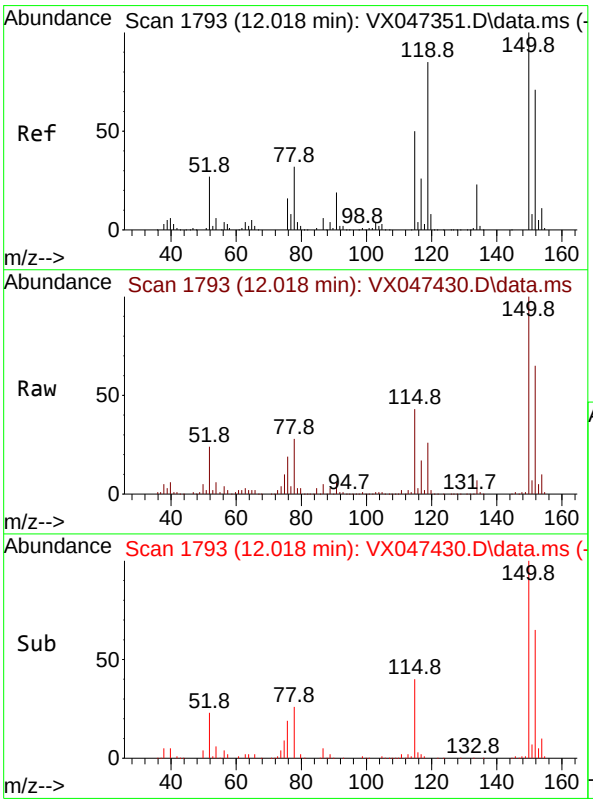
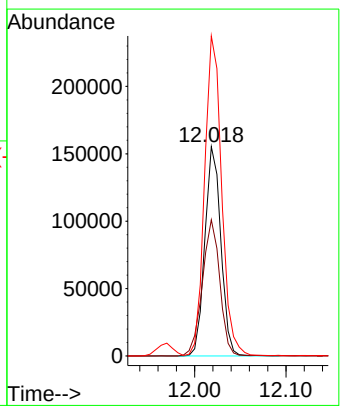
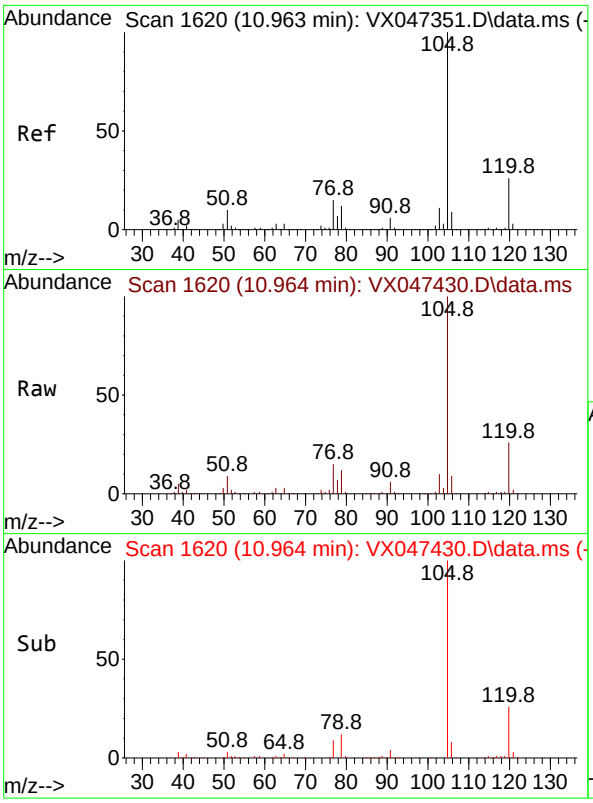


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:152 Resp: 188940

Ion	Ratio	Lower	Upper
152	100		
115	70.9	44.6	133.8
150	162.3	0.0	349.8

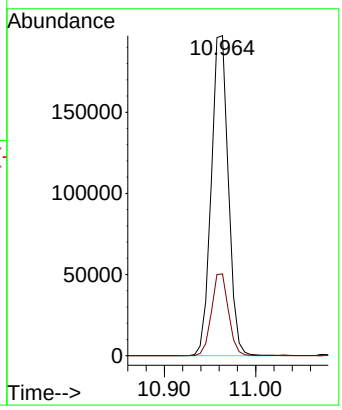




#73
Isopropylbenzene
Concen: 17.329 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:105 Resp: 25622

Ion	Ratio	Lower	Upper
105	100		
120	25.4	12.9	38.6



Instrument :
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ClientSampleId :
VX0820WBS01

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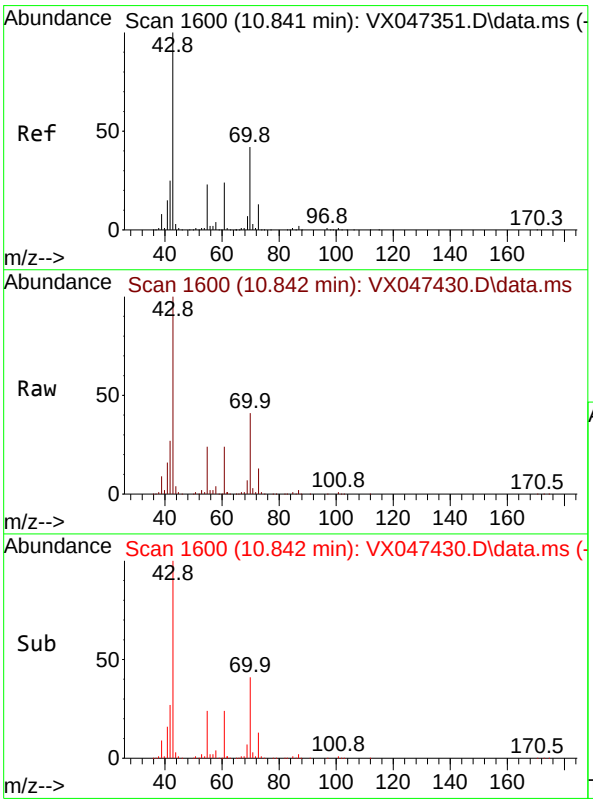
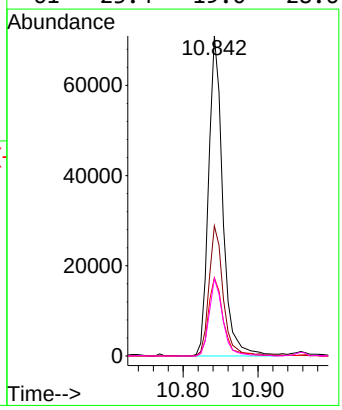
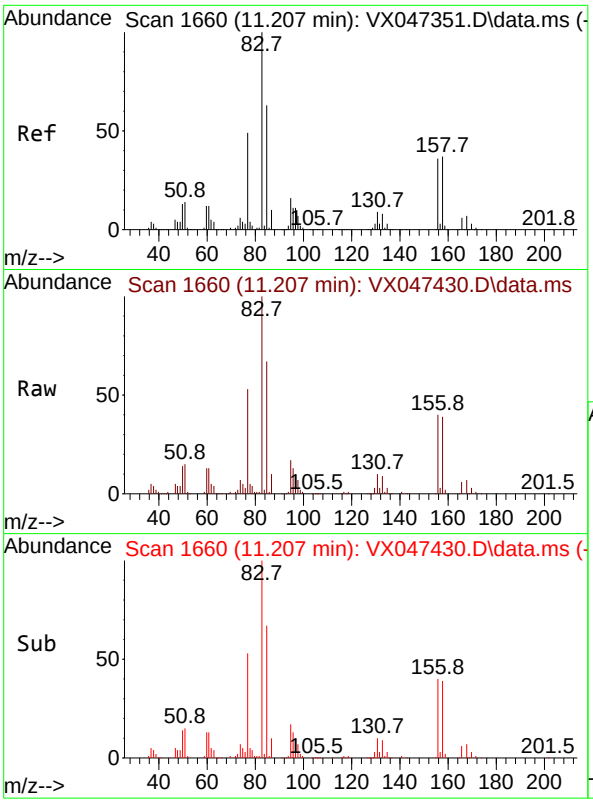


#74
N-amyl acetate
Concen: 16.697 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 43 Resp: 93750

Ion	Ratio	Lower	Upper
43	100		
70	41.0	33.1	49.7
55	25.3	19.0	28.6
61	23.4	19.0	28.6

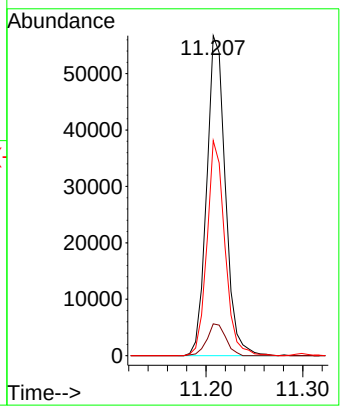




#75
1,1,2,2-Tetrachloroethane
Concen: 17.594 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 83 Resp: 7637

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	15.0
85	64.3	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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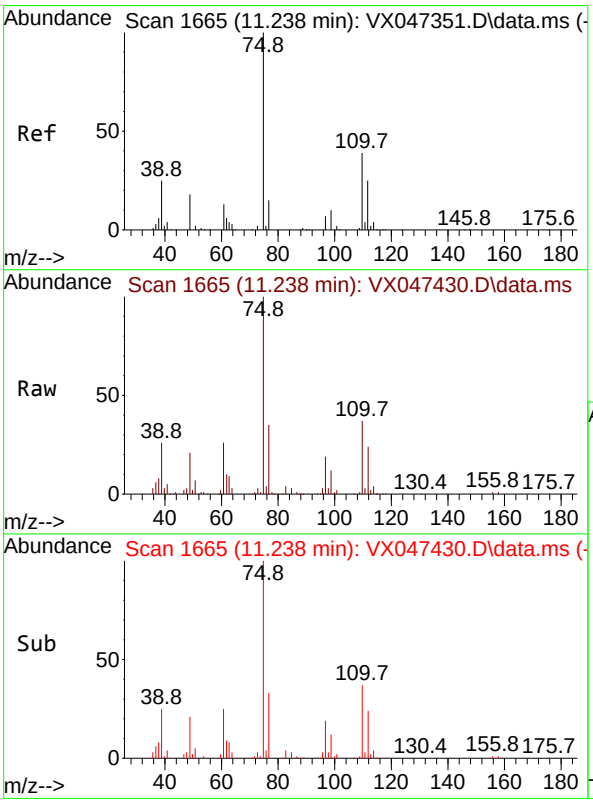
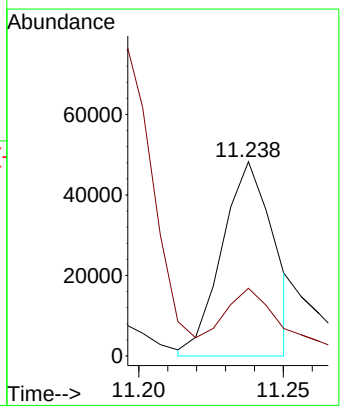
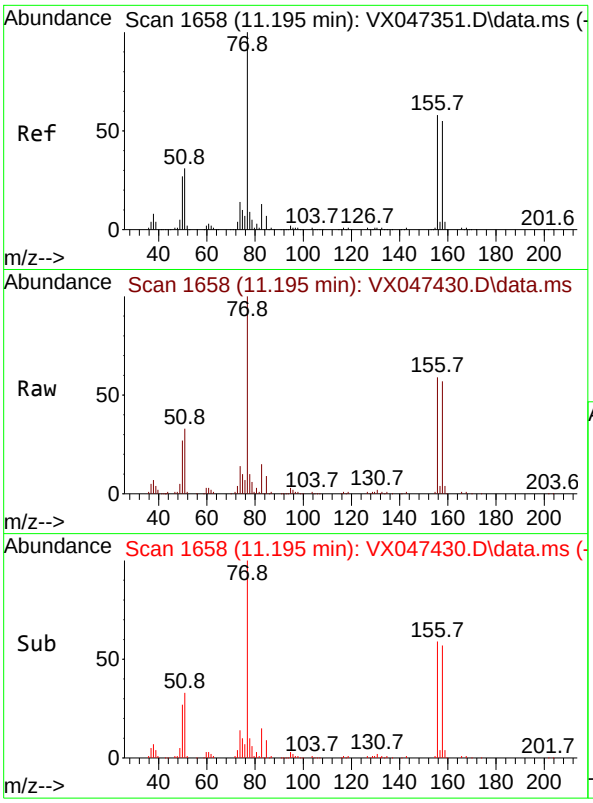


#76
1,2,3-Trichloropropane
Concen: 17.340 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 75 Resp: 60088

Ion	Ratio	Lower	Upper
75	100		
77	41.8	19.4	58.2

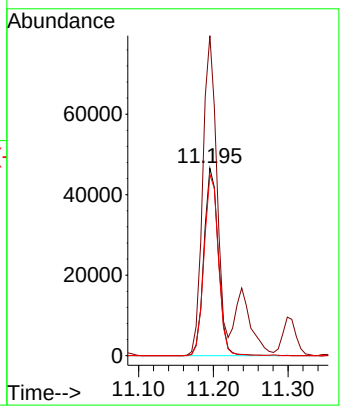




#77
Bromobenzene
Concen: 17.202 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:156 Resp: 6210

Ion	Ratio	Lower	Upper
156	100		
77	168.2	86.3	258.9
158	96.4	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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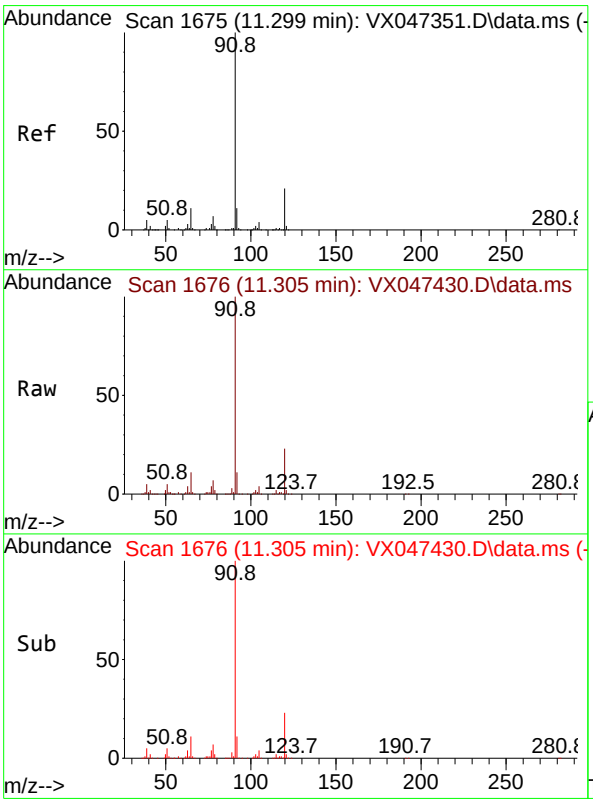
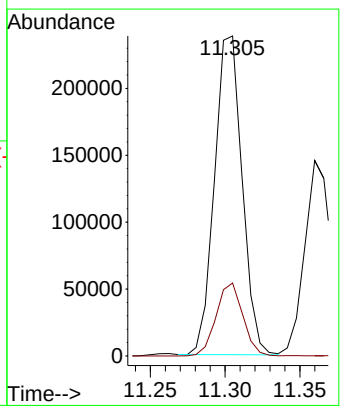
Reviewed By :John Carlone 08/21/2025
Supervised By :Mahesh Dadoda 08/22/2025

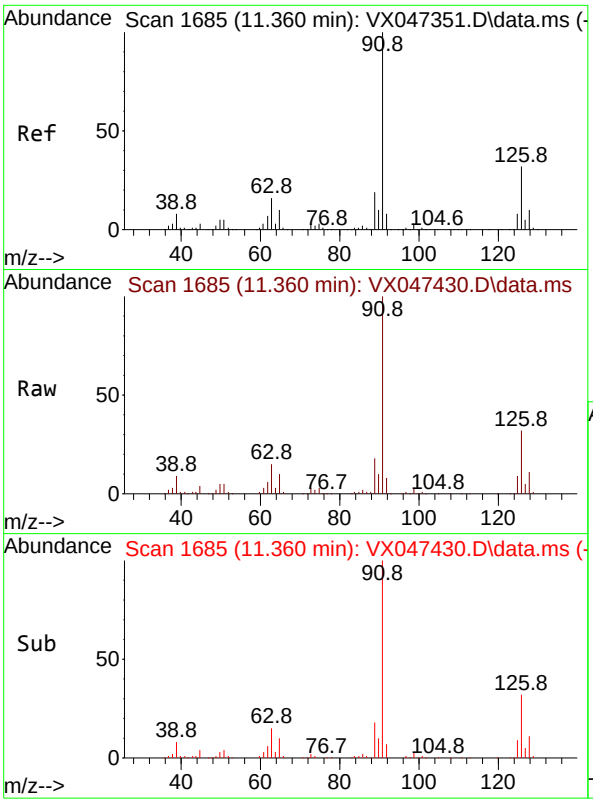


#78
n-propylbenzene
Concen: 17.321 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 91 Resp: 305865

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0





#79
2-Chlorotoluene
Concen: 17.021 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 91 Resp: 18169

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.7	50.1

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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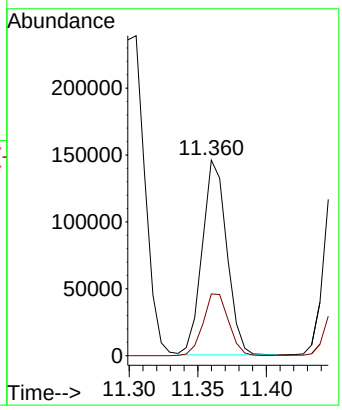
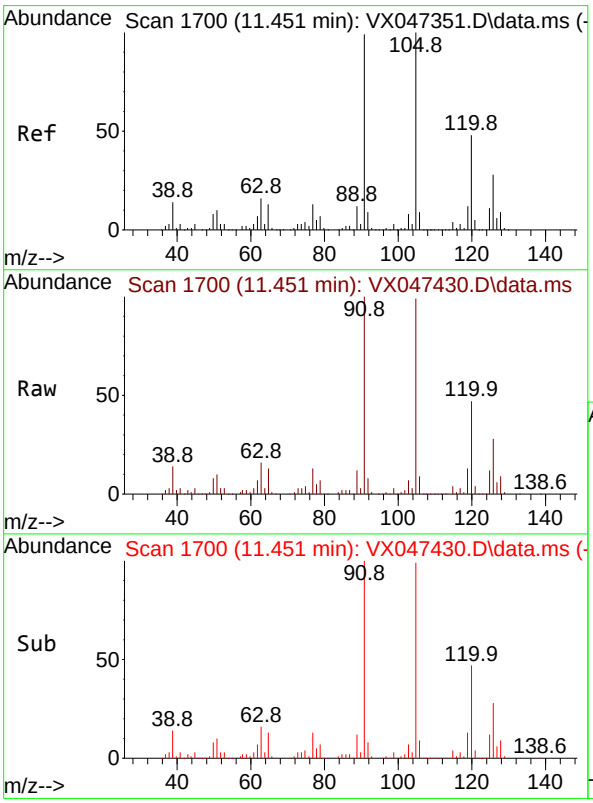
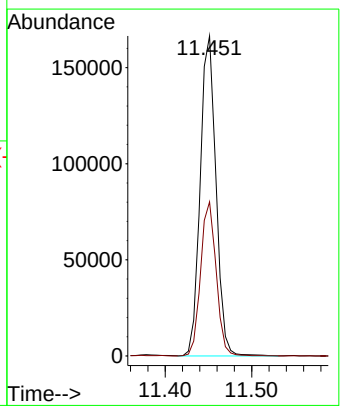


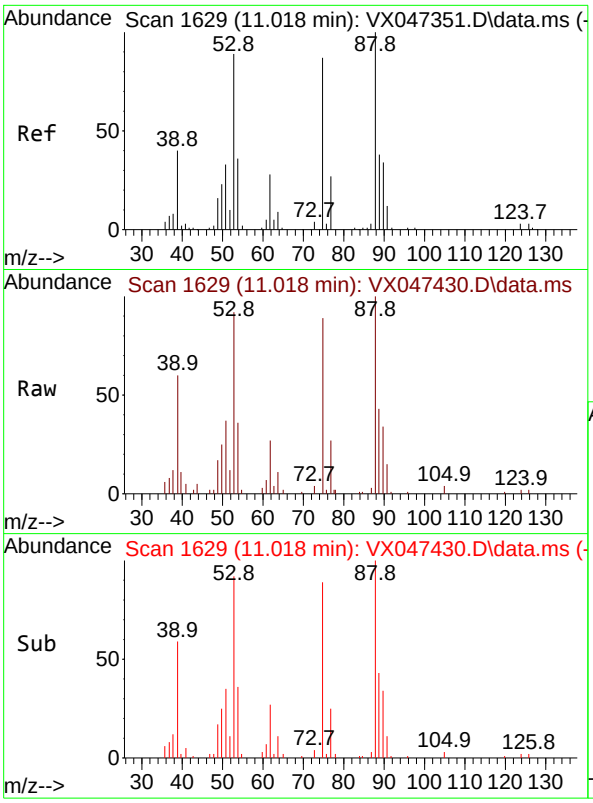


#80
1,3,5-Trimethylbenzene
Concen: 17.321 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:105 Resp: 210710

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.9	71.7

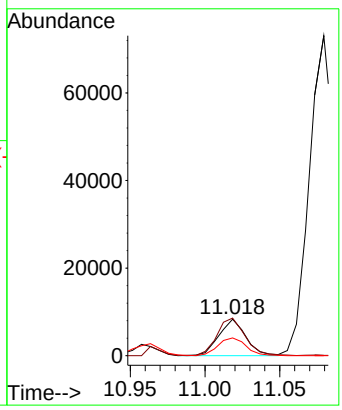




#81
trans-1,4-Dichloro-2-butene
Concen: 18.858 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 75 Resp: 1040

Ion	Ratio	Lower	Upper
75	100		
53	108.4	85.2	127.8
89	51.0	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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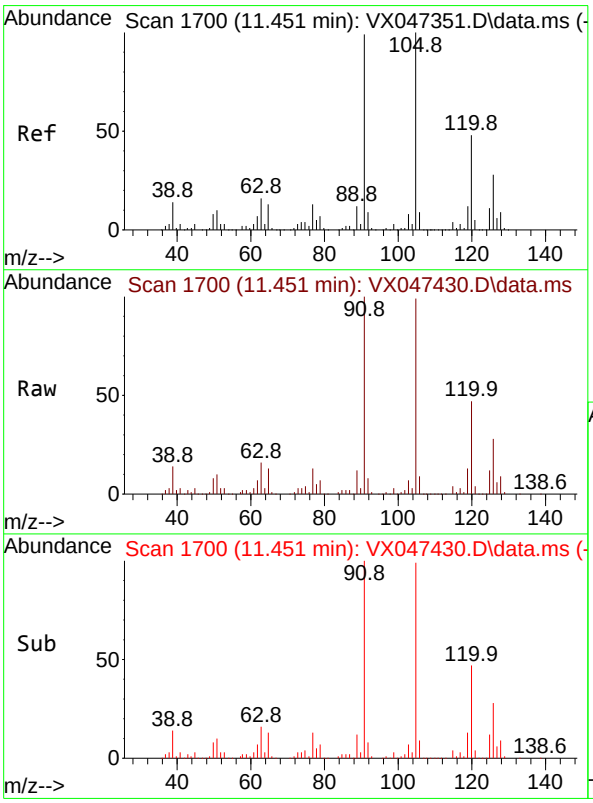
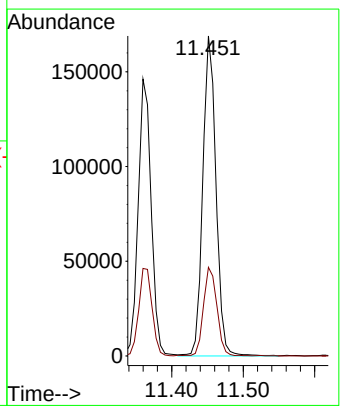
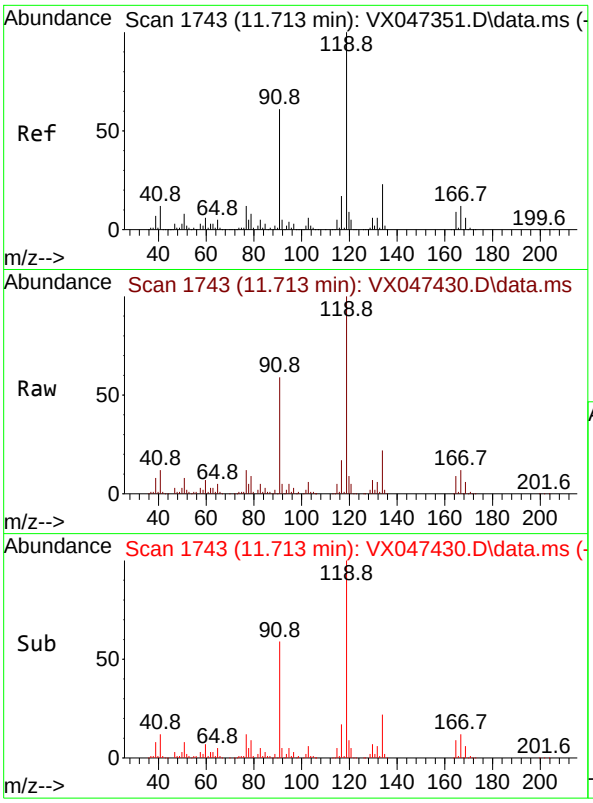


#82
4-Chlorotoluene
Concen: 17.207 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 91 Resp: 216515

Ion	Ratio	Lower	Upper
91	100		
126	28.1	14.4	43.0

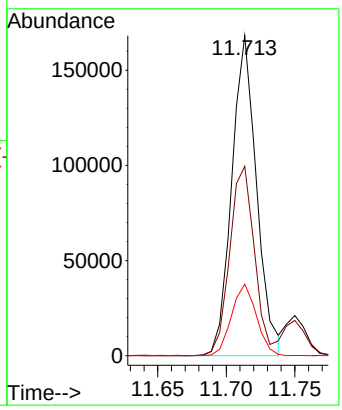




#83
tert-Butylbenzene
Concen: 17.442 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:119 Resp: 21169

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.1	87.4
134	22.5	11.3	33.9



Instrument :
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ClientSampleId :
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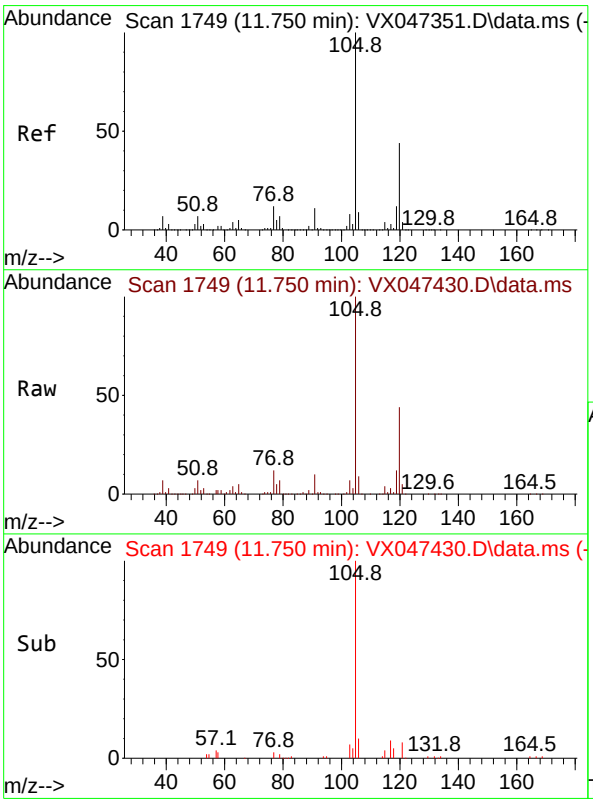
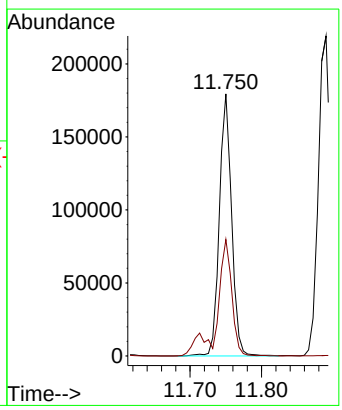
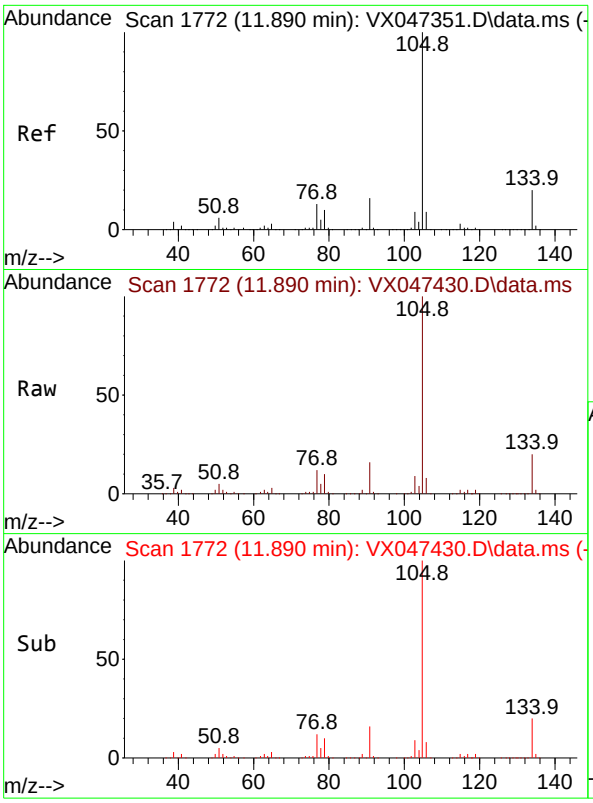


#84
1,2,4-Trimethylbenzene
Concen: 17.547 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:105 Resp: 213463

Ion	Ratio	Lower	Upper
105	100		
120	43.0	21.9	65.7

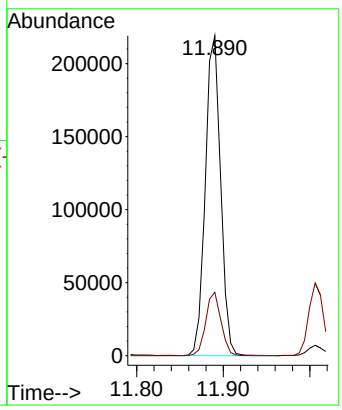




#85
sec-Butylbenzene
Concen: 17.860 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:105 Resp: 26867

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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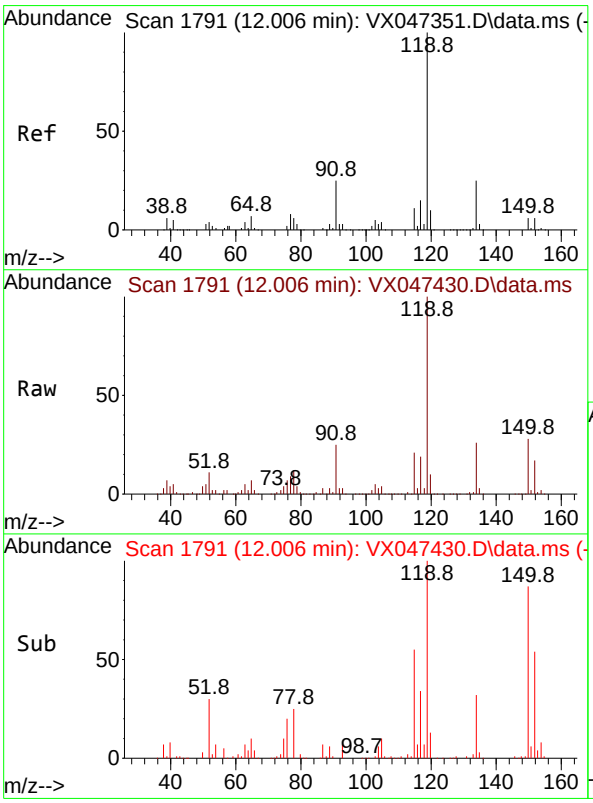
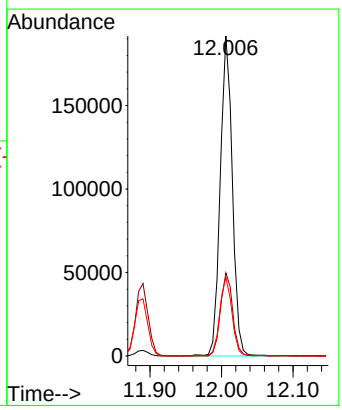
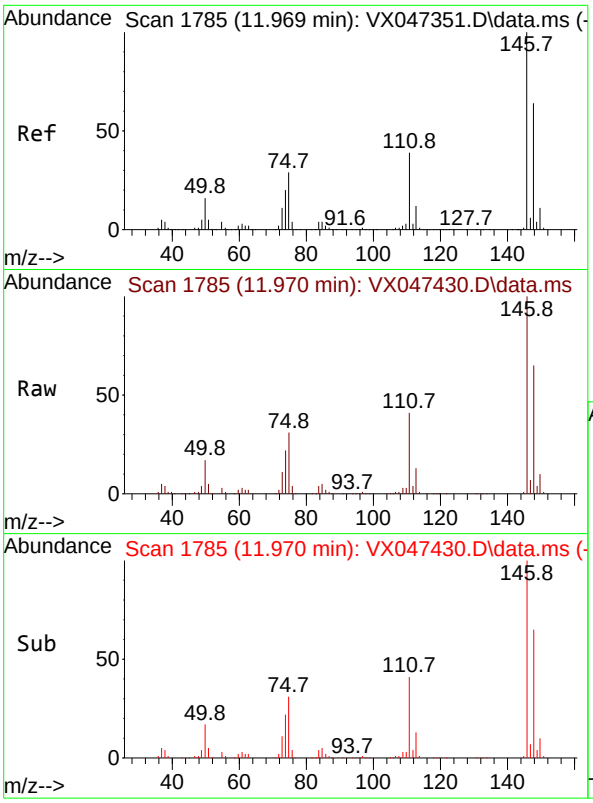


#86
p-Isopropyltoluene
Concen: 17.692 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:119 Resp: 225219

Ion	Ratio	Lower	Upper
119	100		
134	26.3	12.8	38.4
91	24.6	12.4	37.4

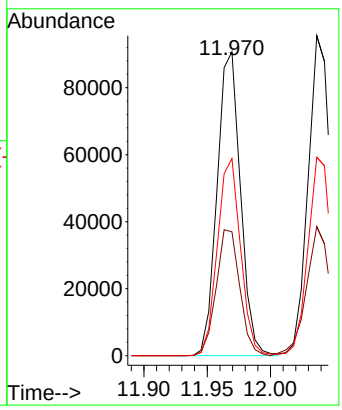




#87
1,3-Dichlorobenzene
Concen: 16.881 ug/l
RT: 11.970 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:146 Resp: 11643

Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.6	61.8
148	64.4	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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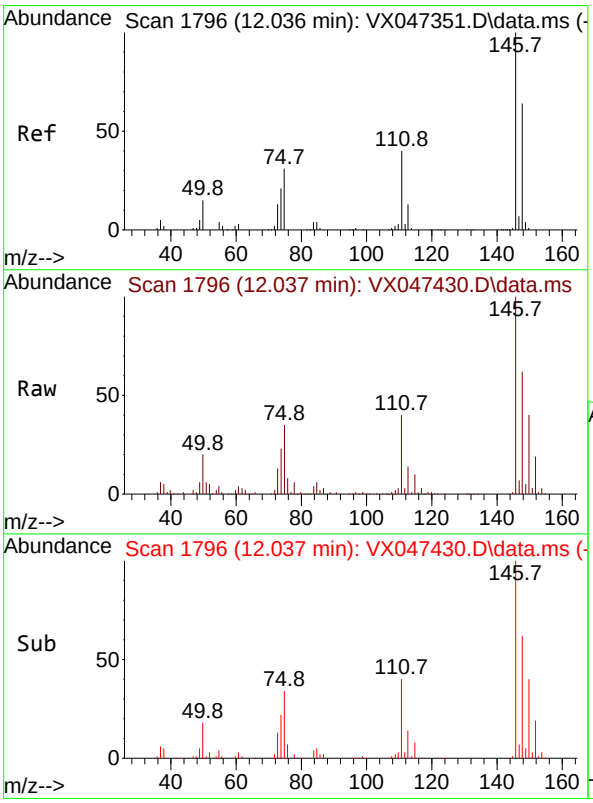
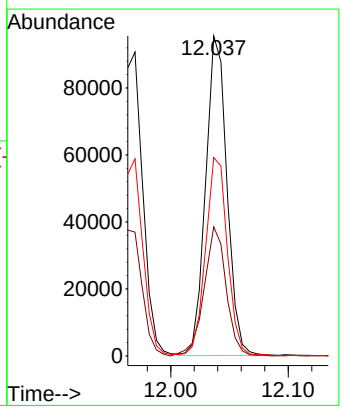
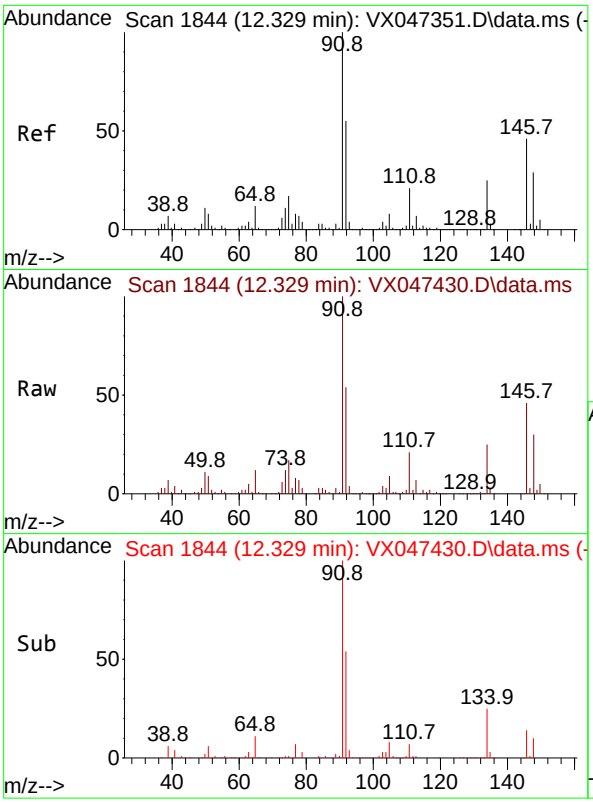


#88
1,4-Dichlorobenzene
Concen: 16.951 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:146 Resp: 120251

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.4	61.2
148	63.8	31.7	95.1

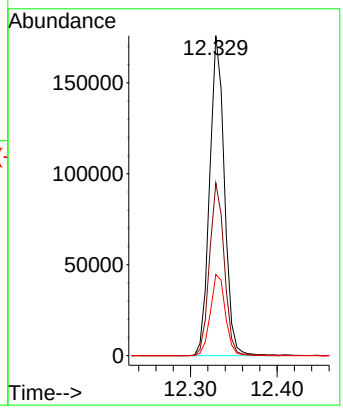




#89
n-Butylbenzene
Concen: 17.569 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 91 Resp: 20801

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.2	81.5
134	26.0	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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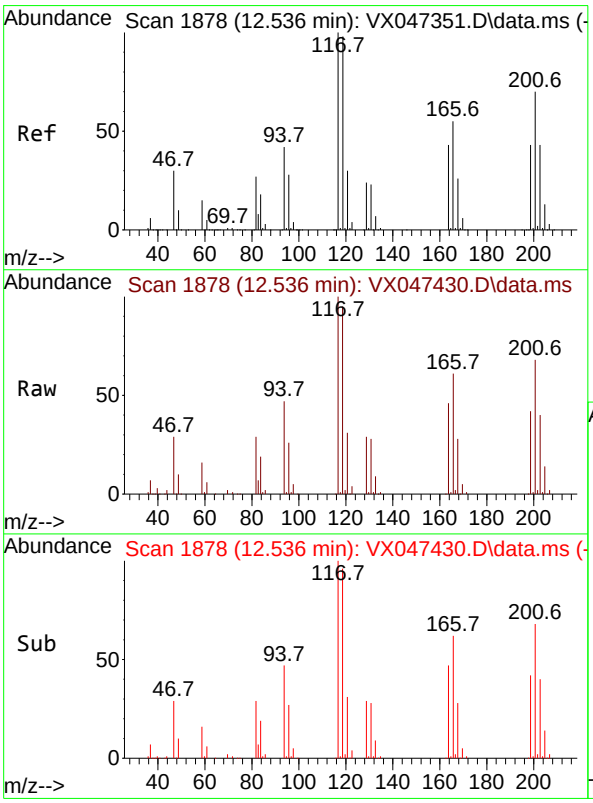
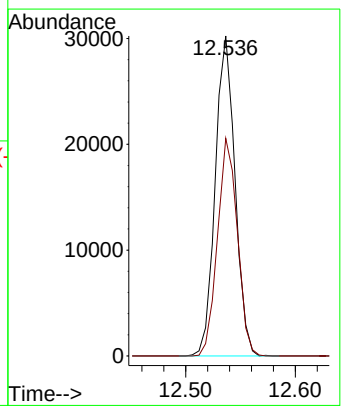
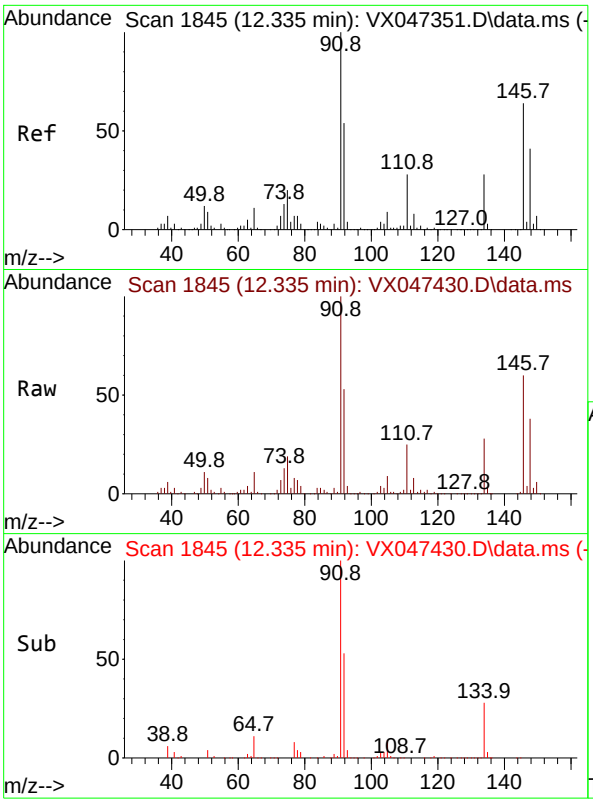


#90
Hexachloroethane
Concen: 16.972 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:117 Resp: 37901

Ion	Ratio	Lower	Upper
117	100		
201	68.5	35.1	105.3

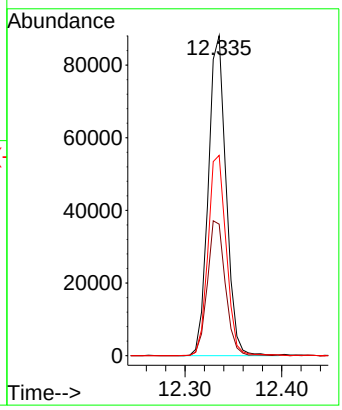




#91
1,2-Dichlorobenzene
Concen: 17.205 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:146 Resp: 11263

Ion	Ratio	Lower	Upper
146	100		
111	42.7	22.1	66.1
148	64.2	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
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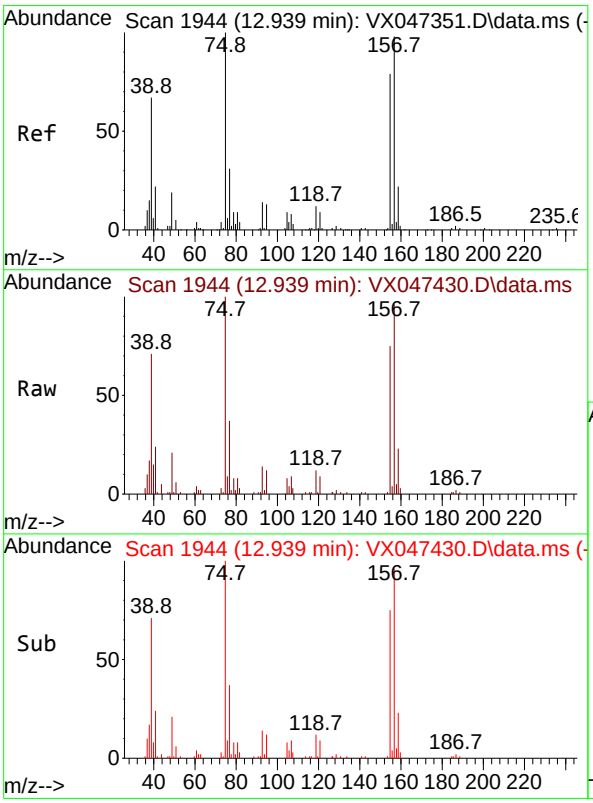
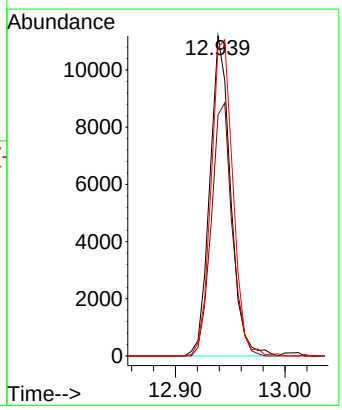
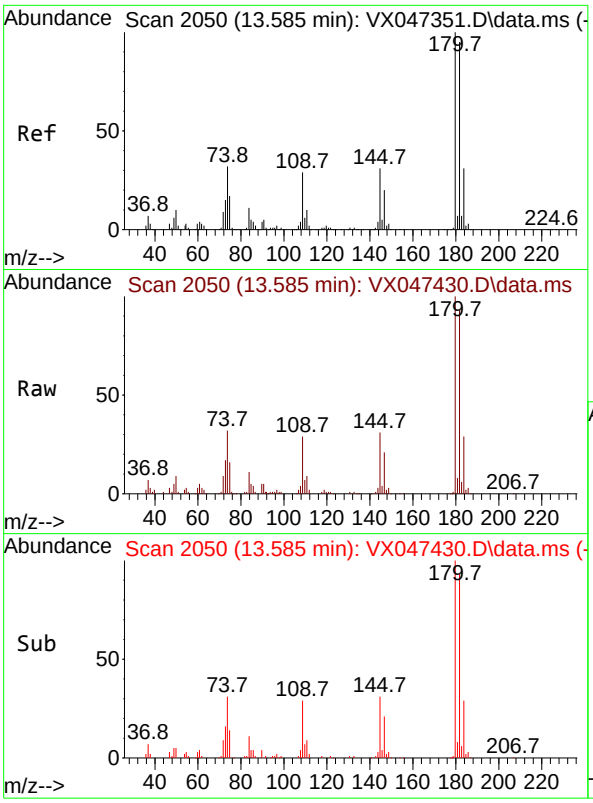


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.516 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 75 Resp: 14705

Ion	Ratio	Lower	Upper
75	100		
155	79.6	41.3	123.7
157	104.1	51.5	154.5

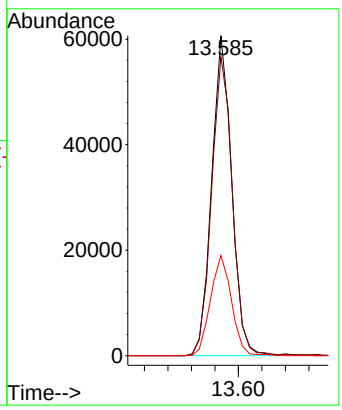




#93
1,2,4-Trichlorobenzene
Concen: 16.333 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:180 Resp: 7168

Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.1	144.4
145	32.8	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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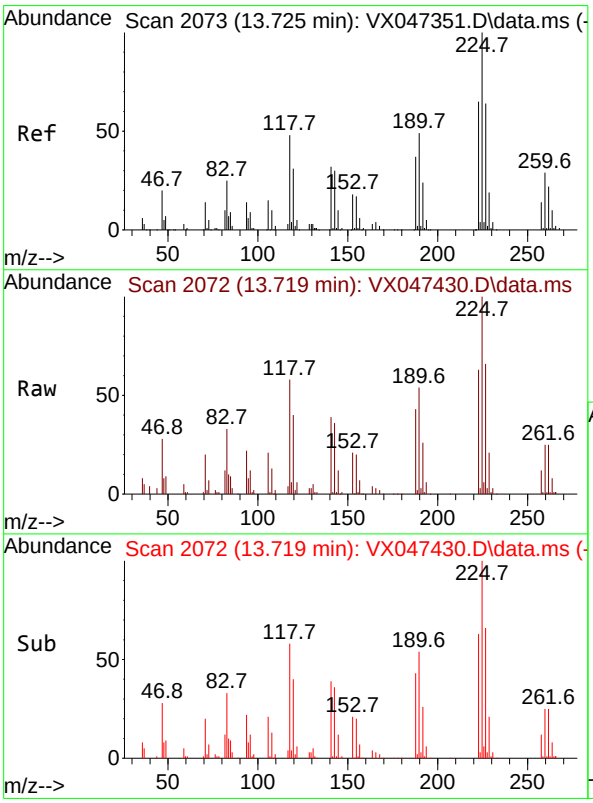
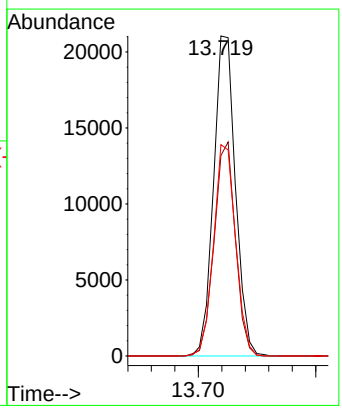
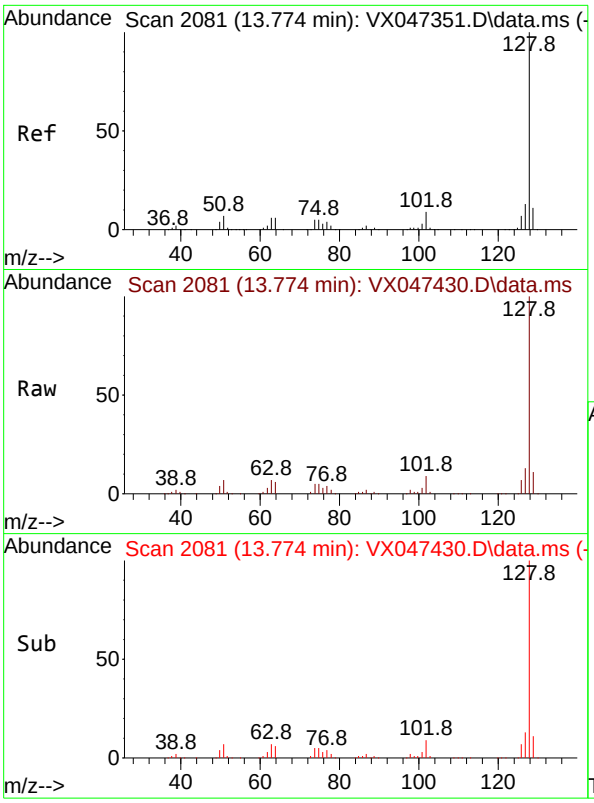


#94
Hexachlorobutadiene
Concen: 17.442 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:225 Resp: 27248

Ion	Ratio	Lower	Upper
225	100		
223	65.0	32.2	96.6
227	66.2	31.6	95.0

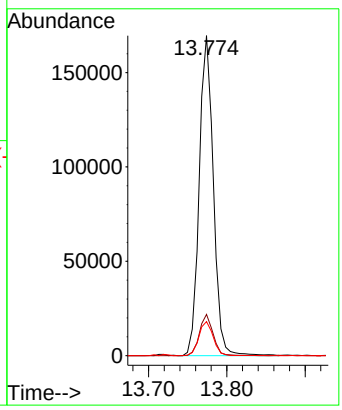




#95
Naphthalene
Concen: 16.959 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:128 Resp: 21270

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.1	15.1
129	10.9	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

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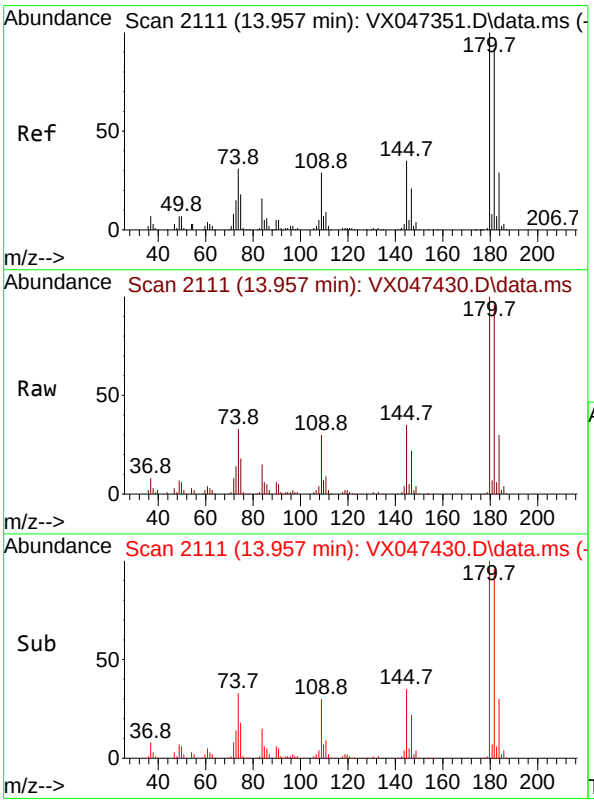
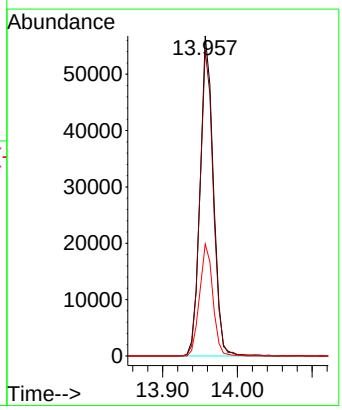


#96
1,2,3-Trichlorobenzene
Concen: 16.938 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:180 Resp: 70071

Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.2
145	34.8	17.4	52.2



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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0818WBSD01	SDG No.:	Q2815
Lab Sample ID:	VX0818WBSD01	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
VX047375.D	1	08/18/25 12:44	VX081825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	20.1		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	22.9		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.9		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	14.9		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	23.2		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.3		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.1		0.23	0.75	1.00	ug/L
67-64-1	Acetone	100		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	21.4		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.4		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	19.4		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.1		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.8		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	19.3		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	100		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.8		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	20.0		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	20.2		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.8		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.7		0.16	0.50	1.00	ug/L
71-43-2	Benzene	20.5		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.9		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.8		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.5		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.2		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	21.0		0.14	0.50	1.00	ug/L

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0818WBSD01	SDG No.:	Q2815
Lab Sample ID:	VX0818WBSD01	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
VX047375.D	1	08/18/25 12:44	VX081825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.8		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.2		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.8		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	21.0		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.0		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.0		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.7		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.7		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	40.5		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	19.8		0.12	0.50	1.00	ug/L
100-42-5	Styrene	20.1		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	20.7		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.2		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.9		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.3		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.0		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.4		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.8		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.2		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.8		81 - 118		104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	51.4		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.6		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	236000	5.562				
540-36-3	1,4-Difluorobenzene	398000	6.769				
3114-55-4	Chlorobenzene-d5	370000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	191000	12.018				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VX0818WBSD01	SDG No.:	Q2815
Lab Sample ID:	VX0818WBSD01	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
VX047375.D	1	08/18/25 12:44	VX081825

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\VX081825\
Data File : VX047375.D
Acq On : 18 Aug 2025 12:44
Operator : JC/MD
Sample : VX0818WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 19 01:39:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	235521	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	398008	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	370209	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	191427	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	170578	51.750	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.500%			
35) Dibromofluoromethane	5.391	113	133458	51.666	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.340%			
50) Toluene-d8	8.647	98	474556	51.399	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.800%			
62) 4-Bromofluorobenzene	11.079	95	179282	52.621	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	60494	20.149	ug/l	99
3) Chloromethane	1.313	50	61794	22.879	ug/l	100
4) Vinyl Chloride	1.392	62	63982	18.874	ug/l #	39
5) Bromomethane	1.630	94	20458	14.941	ug/l	91
6) Chloroethane	1.709	64	48061	23.172	ug/l	100
7) Trichlorofluoromethane	1.904	101	96712	19.287	ug/l	98
8) Diethyl Ether	2.148	74	35126	19.894	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	58430	20.088	ug/l	99
10) Methyl Iodide	2.471	142	82525	16.556	ug/l	99
11) Tert butyl alcohol	2.959	59	32361	112.854	ug/l	97
12) 1,1-Dichloroethene	2.337	96	56741	19.134	ug/l	97
13) Acrolein	2.252	56	719m	1.188	ug/l	
14) Allyl chloride	2.678	41	83905	16.291	ug/l	97
15) Acrylonitrile	3.081	53	145392	104.929	ug/l	99
16) Acetone	2.392	43	125152	101.012	ug/l	99
17) Carbon Disulfide	2.532	76	191928	21.448	ug/l	100
18) Methyl Acetate	2.715	43	72026	22.433	ug/l	94
19) Methyl tert-butyl Ether	3.123	73	184426	20.443	ug/l	96
20) Methylene Chloride	2.806	84	63679	19.409	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	60251	19.143	ug/l	97
22) Diisopropyl ether	3.770	45	209869	20.614	ug/l	86
23) Vinyl Acetate	3.733	43	860528	103.122	ug/l	100
24) 1,1-Dichloroethane	3.623	63	113813	19.778	ug/l	98
25) 2-Butanone	4.568	43	169460	104.434	ug/l	97
26) 2,2-Dichloropropane	4.483	77	80899	18.626	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	72443	19.762	ug/l	99
28) Bromochloromethane	4.904	49	47835	19.976	ug/l	99
29) Tetrahydrofuran	5.025	42	106985	102.008	ug/l	98
30) Chloroform	5.099	83	118735	20.217	ug/l	97
31) Cyclohexane	5.477	56	102512	19.325	ug/l	95
32) 1,1,1-Trichloroethane	5.391	97	100146	19.811	ug/l	98
36) 1,1-Dichloropropene	5.702	75	80725	19.797	ug/l	99
37) Ethyl Acetate	4.721	43	79484	18.776	ug/l	97
38) Carbon Tetrachloride	5.684	117	89631	20.115	ug/l	95
39) Methylcyclohexane	7.385	83	100021	19.665	ug/l	92
40) Benzene	6.044	78	249658	20.455	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047375.D
Acq On : 18 Aug 2025 12:44
Operator : JC/MD
Sample : VX0818WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 19 01:39:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	36850	20.643	ug/l		98
42) 1,2-Dichloroethane	6.092	62	90345	20.898	ug/l		99
43) Isopropyl Acetate	6.342	43	125441	20.627	ug/l		99
44) Trichloroethene	7.129	130	61892	19.804	ug/l		99
45) 1,2-Dichloropropane	7.434	63	62740	20.519	ug/l		92
46) Dibromomethane	7.586	93	46329	20.871	ug/l		98
47) Bromodichloromethane	7.824	83	92962	20.201	ug/l		98
48) Methyl methacrylate	7.696	41	64892	20.557	ug/l		97
49) 1,4-Dioxane	7.684	88	11209	365.275	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	380754	108.800	ug/l		98
52) Toluene	8.720	92	158216	20.978	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	83433	20.773	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	91678	20.167	ug/l		99
55) 1,1,2-Trichloroethane	9.153	97	59627	20.823	ug/l		98
56) Ethyl methacrylate	9.116	69	88354	20.928	ug/l		99
57) 1,3-Dichloropropane	9.305	76	102836	21.076	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	178905	94.134	ug/l		98
59) 2-Hexanone	9.433	43	258269	106.690	ug/l		99
60) Dibromochloromethane	9.519	129	71298	20.951	ug/l		100
61) 1,2-Dibromoethane	9.610	107	62071	21.021	ug/l		98
64) Tetrachloroethene	9.275	164	53436	19.955	ug/l		98
65) Chlorobenzene	10.079	112	173739	19.748	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	60140	20.222	ug/l		98
67) Ethyl Benzene	10.195	91	299018	19.748	ug/l		99
68) m/p-Xylenes	10.299	106	228585	40.486	ug/l		100
69) o-Xylene	10.640	106	107309	19.750	ug/l		100
70) Styrene	10.652	104	184361	20.081	ug/l		100
71) Bromoform	10.799	173	46255	20.703	ug/l	#	100
73) Isopropylbenzene	10.957	105	287576	19.197	ug/l		100
74) N-amyl acetate	10.841	43	111520	19.604	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	87410	19.874	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	65880m	18.764	ug/l		
77) Bromobenzene	11.195	156	71076	19.430	ug/l		99
78) n-propylbenzene	11.305	91	341340	19.079	ug/l		99
79) 2-Chlorotoluene	11.360	91	207518	19.188	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	241050	19.557	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	6928	15.093	ug/l		91
82) 4-Chlorotoluene	11.451	91	244966	19.215	ug/l		99
83) tert-Butylbenzene	11.713	119	238742	19.415	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	241810	19.618	ug/l		99
85) sec-Butylbenzene	11.890	105	301301	19.769	ug/l		98
86) p-Isopropyltoluene	12.006	119	249604	19.353	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	134802	19.290	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	136399	18.977	ug/l		99
89) n-Butylbenzene	12.329	91	228427	19.042	ug/l		100
90) Hexachloroethane	12.536	117	40863	18.060	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	128589	19.386	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	17026	20.017	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	83552	18.790	ug/l		100
94) Hexachlorobutadiene	13.719	225	28659	18.107	ug/l		97
95) Naphthalene	13.774	128	248413	19.549	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	80375	19.176	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047375.D
Acq On : 18 Aug 2025 12:44
Operator : JC/MD
Sample : VX0818WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 19 01:39:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

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

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

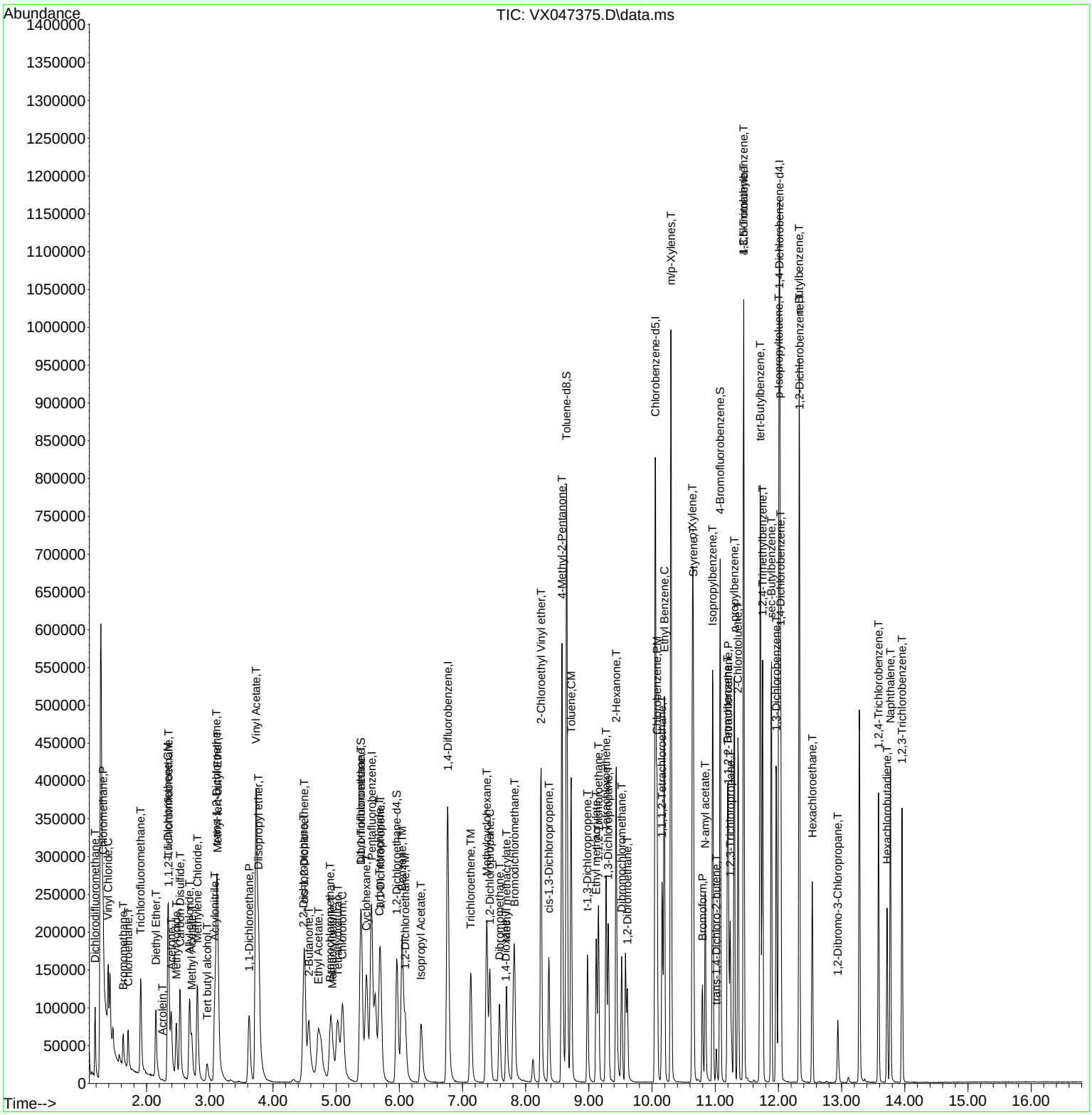
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047375.D
Acq On : 18 Aug 2025 12:44
Operator : JC/MD
Sample : VX0818WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

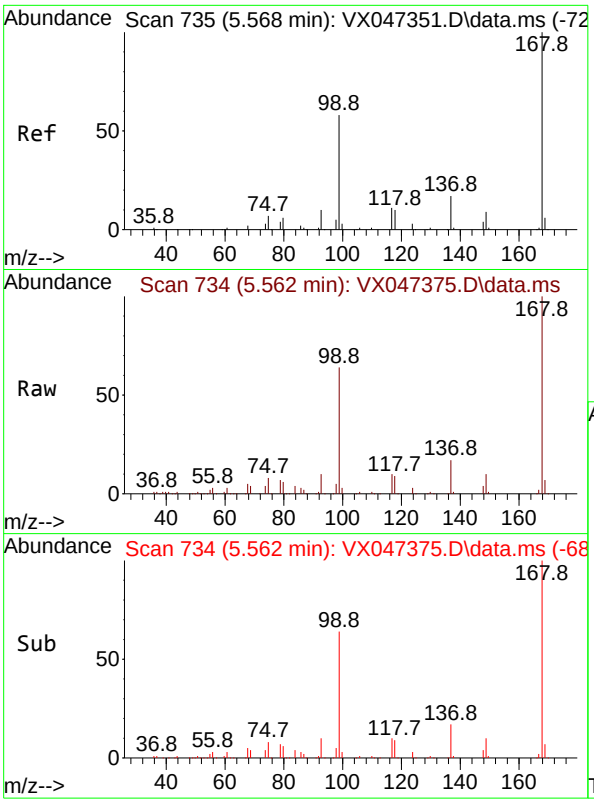
Quant Time: Aug 19 01:39:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

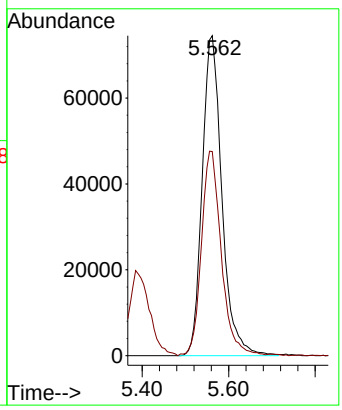




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:168 Resp: 23552

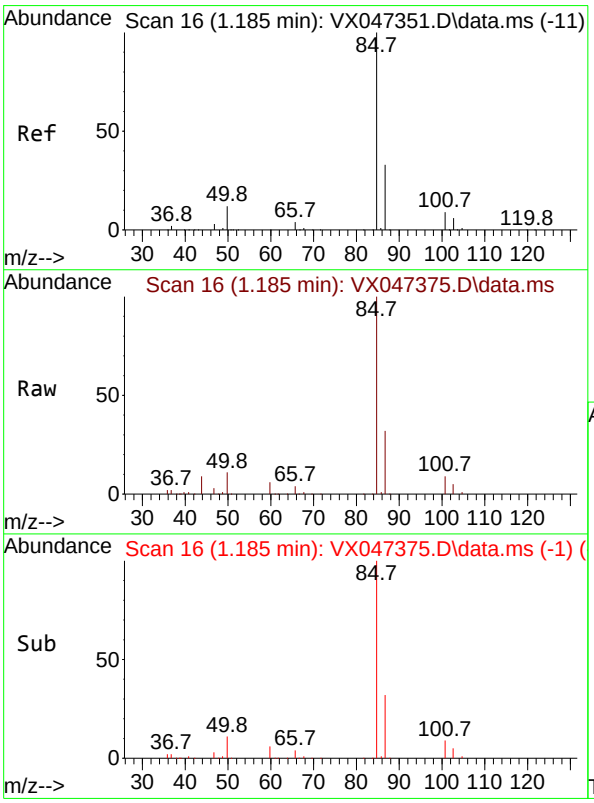
Ion	Ratio	Lower	Upper
168	100		
99	63.8	47.9	71.9



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Manual Integrations
APPROVED

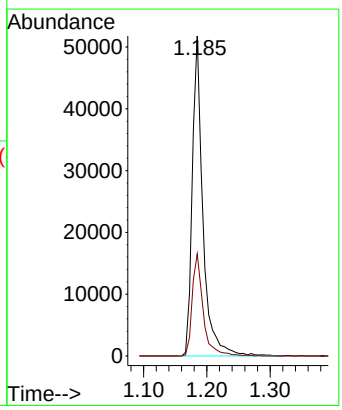
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

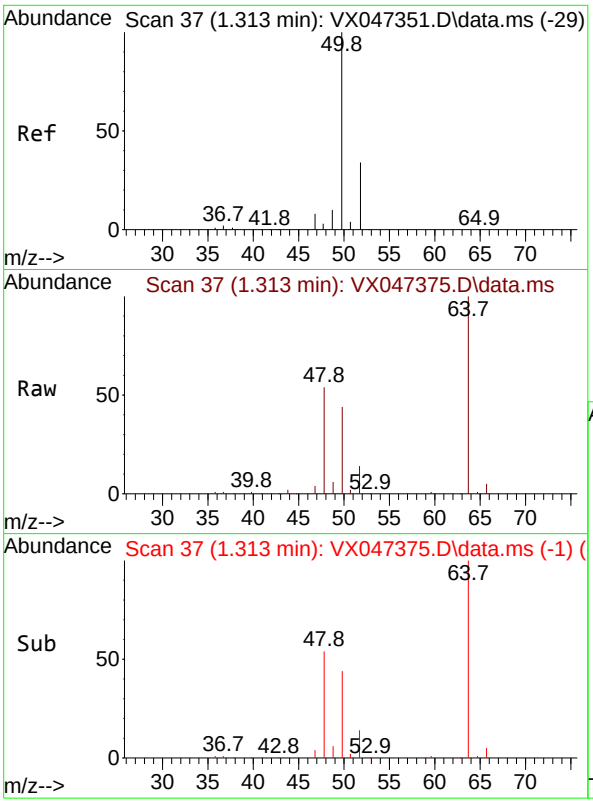


#2
Dichlorodifluoromethane
Concen: 20.149 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 85 Resp: 60494

Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.4	49.1

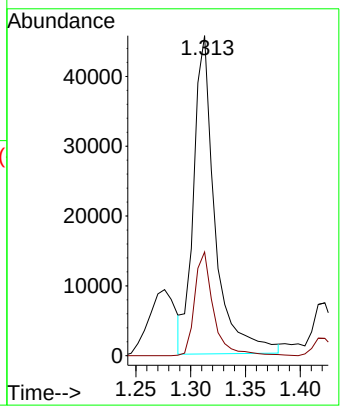




#3
Chloromethane
Concen: 22.879 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 50 Resp: 6179

Ion	Ratio	Lower	Upper
50	100		
52	33.5	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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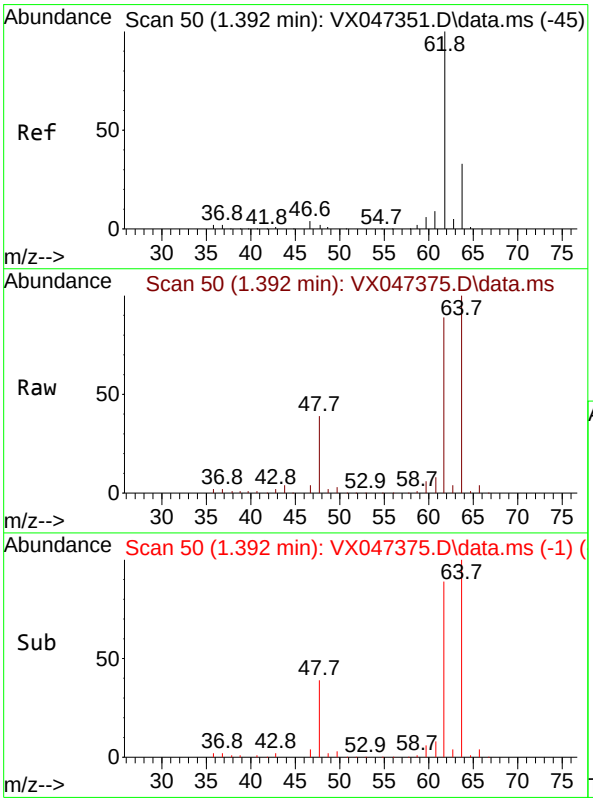
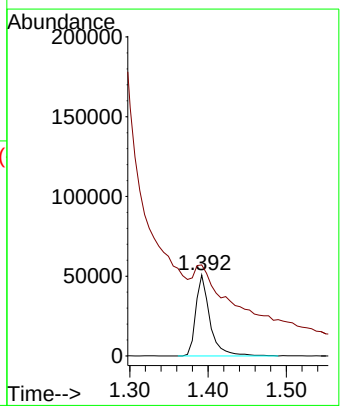
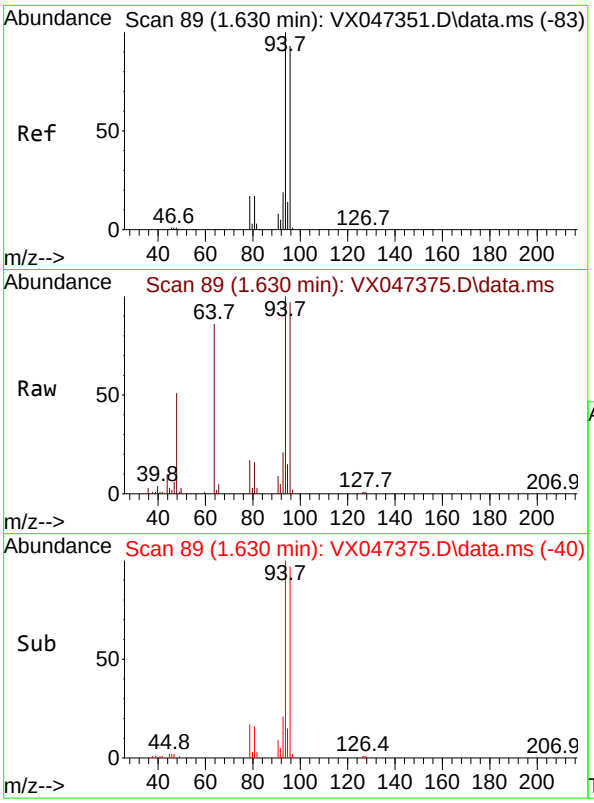


#4
Vinyl Chloride
Concen: 18.874 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 62 Resp: 63982

Ion	Ratio	Lower	Upper
62	100		
64	67.5	26.5	39.7#

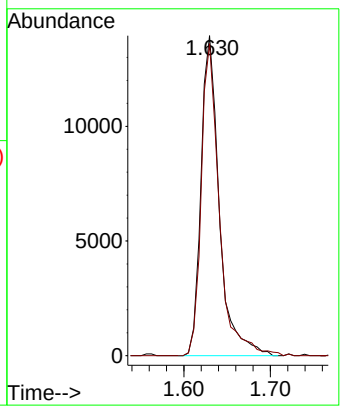




#5
Bromomethane
Concen: 14.941 ug/l
RT: 1.630 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 94 Resp: 2045

Ion	Ratio	Lower	Upper
94	100		
96	84.8	74.7	112.1



Instrument :
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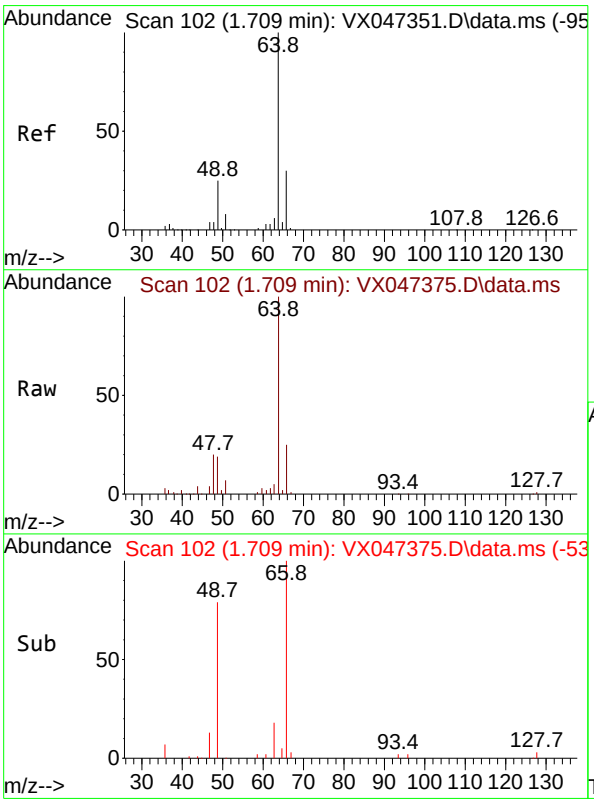
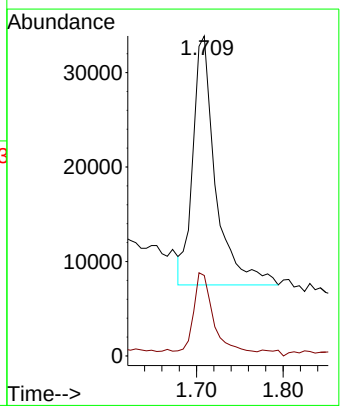
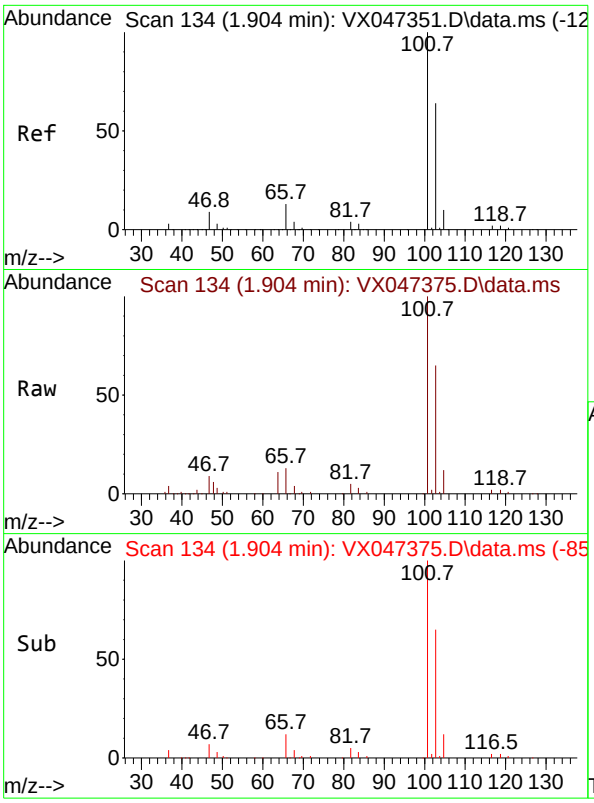


#6
Chloroethane
Concen: 23.172 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 64 Resp: 48061

Ion	Ratio	Lower	Upper
64	100		
66	30.3	24.4	36.6

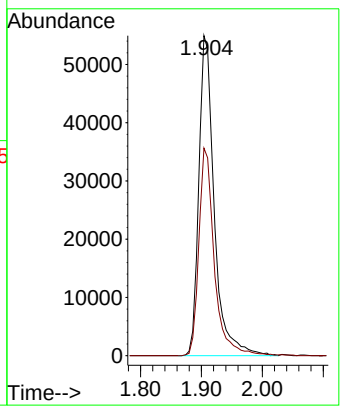




#7
Trichlorofluoromethane
Concen: 19.287 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:101 Resp: 9671

Ion	Ratio	Lower	Upper
101	100		
103	64.8	50.9	76.3



Instrument :
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ClientSampleId :
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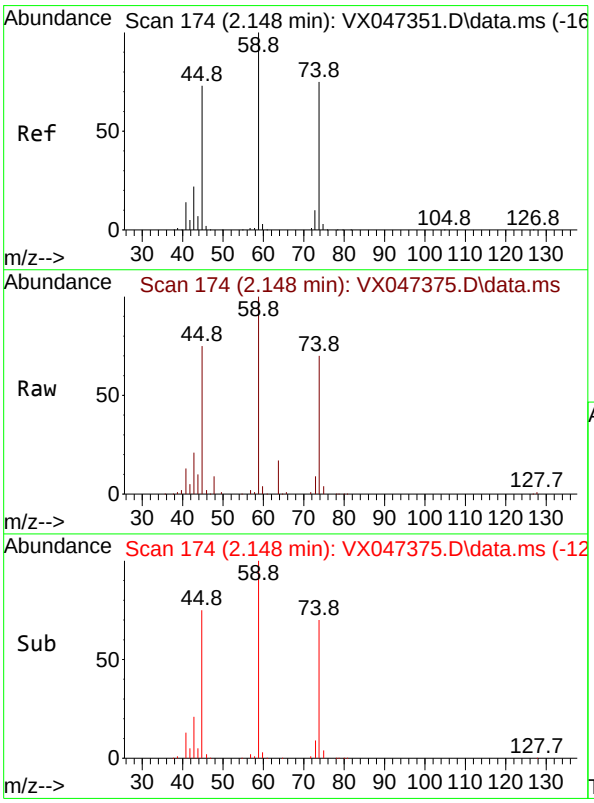
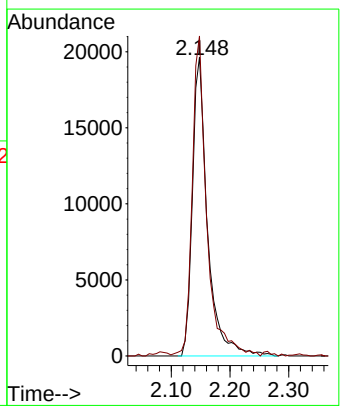
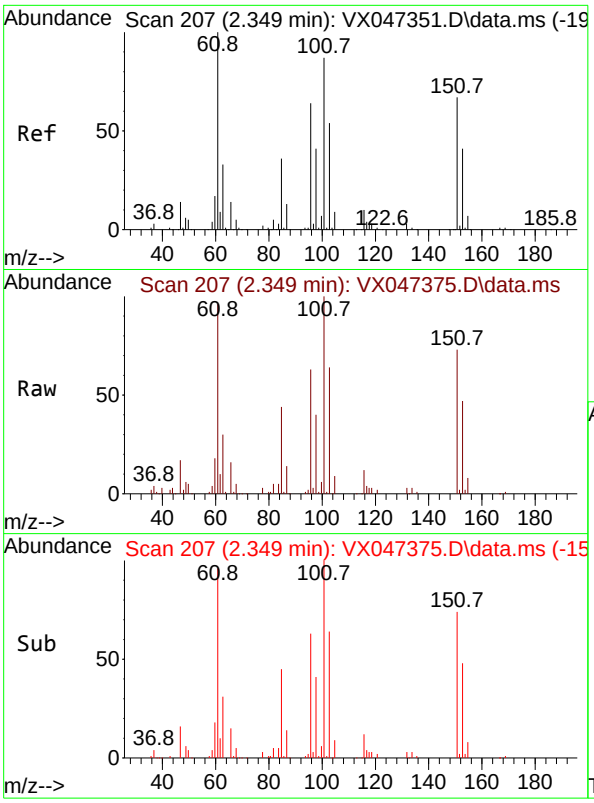


#8
Diethyl Ether
Concen: 19.894 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 74 Resp: 35126

Ion	Ratio	Lower	Upper
74	100		
45	103.1	51.3	154.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.088 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:101 Resp: 5843

Ion	Ratio	Lower	Upper
101	100		
85	43.9	34.3	51.5
151	73.8	59.2	88.8

Instrument :
MSVOA_X
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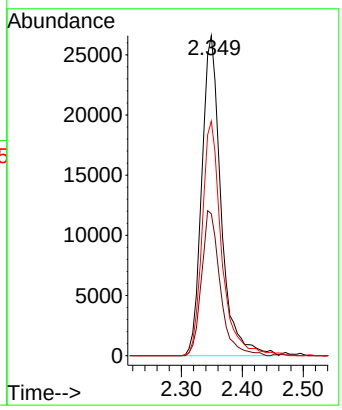
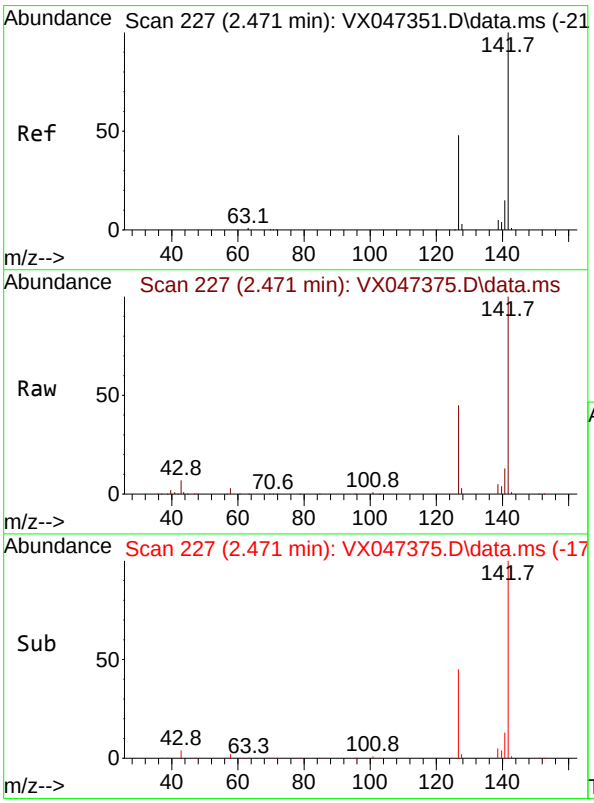
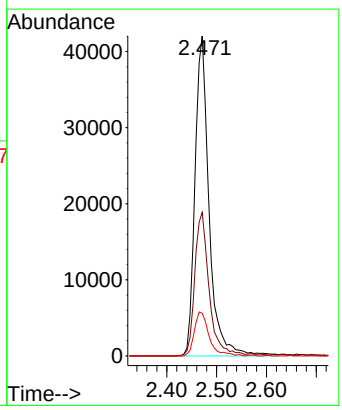


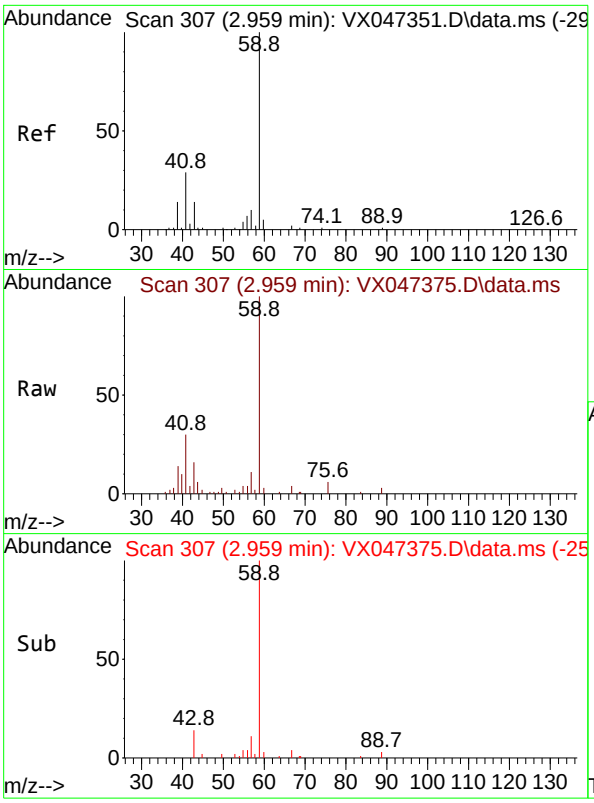


#10
Methyl Iodide
Concen: 16.556 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:142 Resp: 82525

Ion	Ratio	Lower	Upper
142	100		
127	45.7	36.1	54.1
141	14.4	11.1	16.7

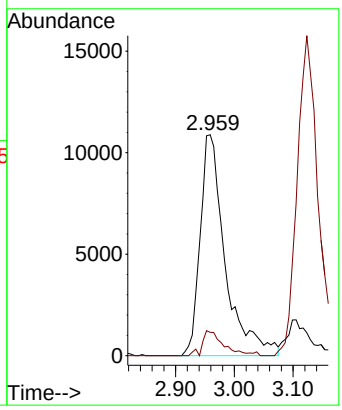




#11
Tert butyl alcohol
Concen: 112.854 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 59 Resp: 3236

Ion	Ratio	Lower	Upper
59	100		
57	9.2	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
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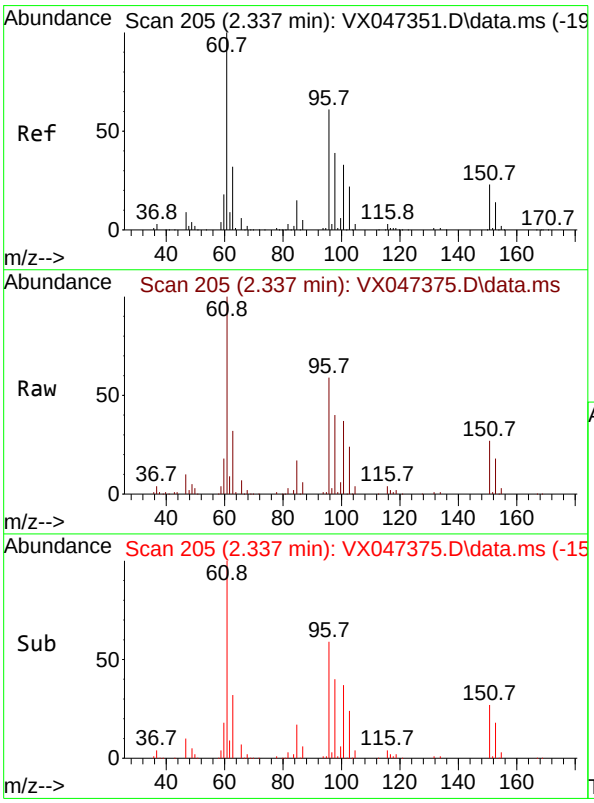
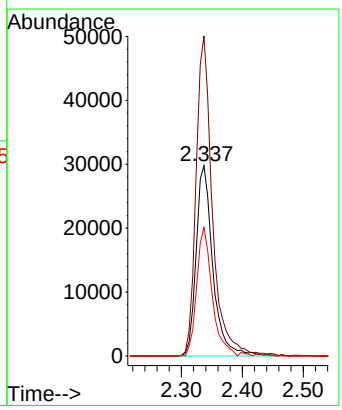
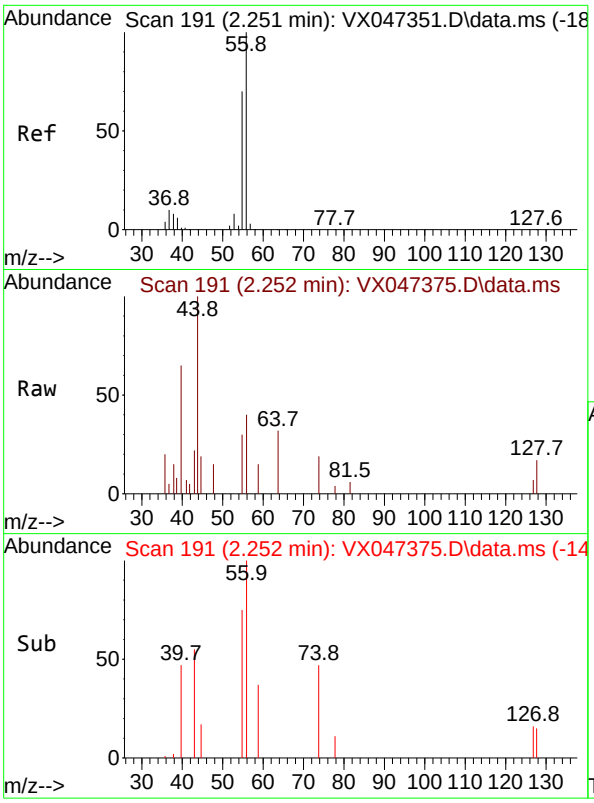


#12
1,1-Dichloroethene
Concen: 19.134 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 96 Resp: 56741

Ion	Ratio	Lower	Upper
96	100		
61	168.2	132.2	198.2
98	67.5	51.2	76.8

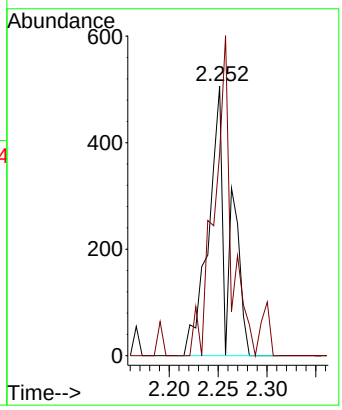




#13
Acrolein
Concen: 1.188 ug/l m
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 56 Resp: 71

Ion	Ratio	Lower	Upper
56	100		
55	101.5	55.5	83.3#



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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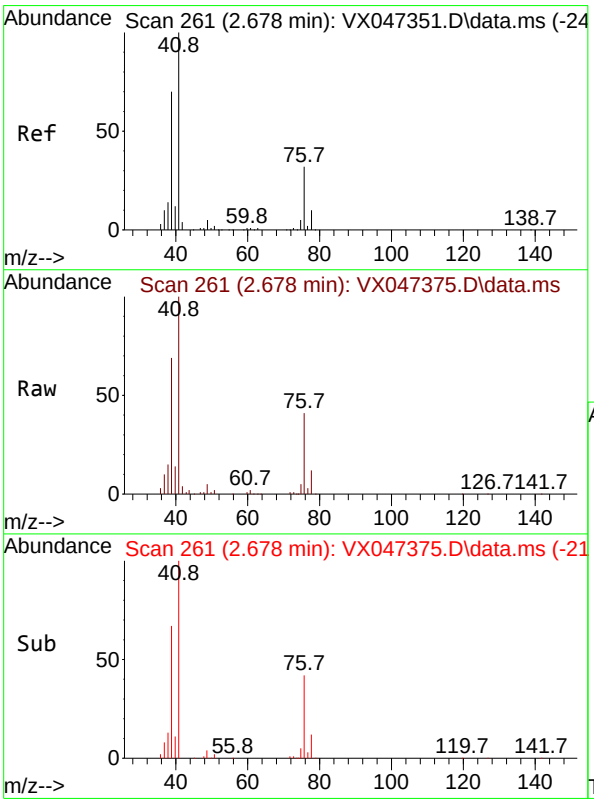
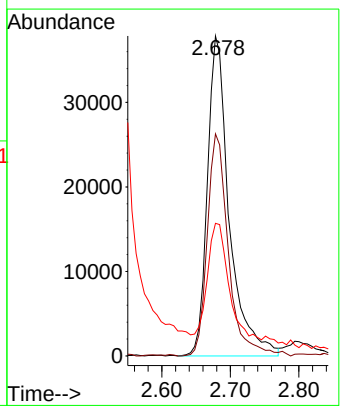
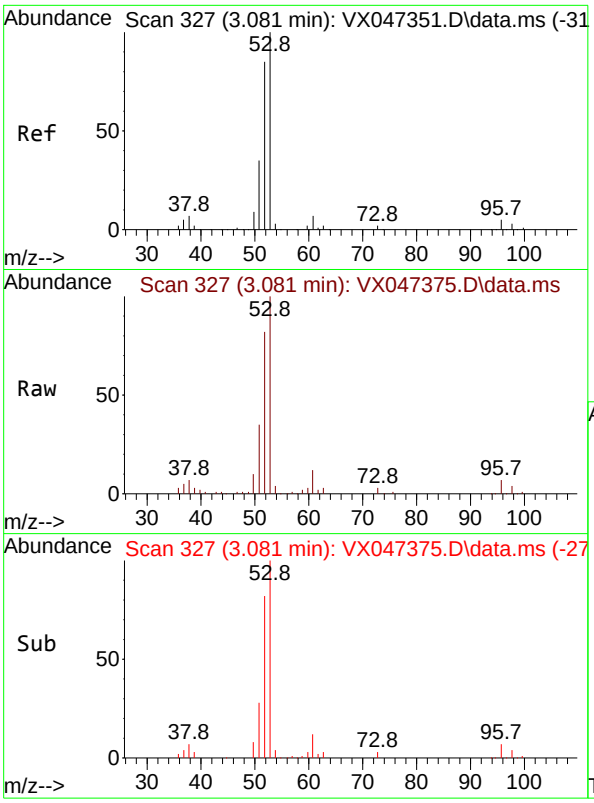


#14
Allyl chloride
Concen: 16.291 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 41 Resp: 83905

Ion	Ratio	Lower	Upper
41	100		
39	67.0	54.6	81.8
76	37.8	27.6	41.4

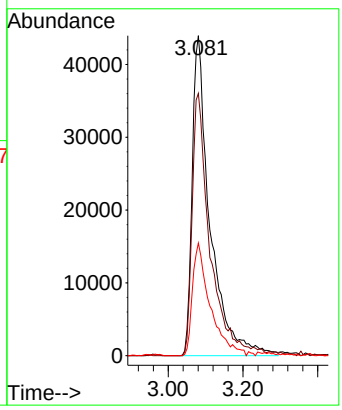




#15
Acrylonitrile
Concen: 104.929 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 53 Resp: 14539

Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.8	98.6
51	34.9	28.2	42.2



Instrument :
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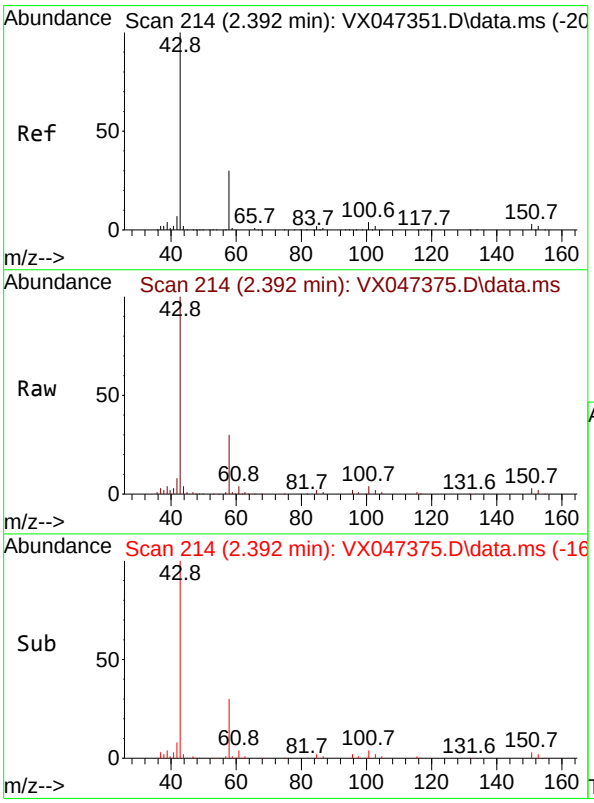
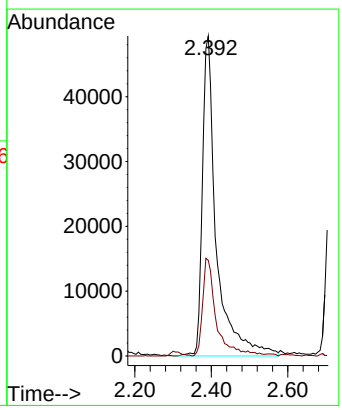
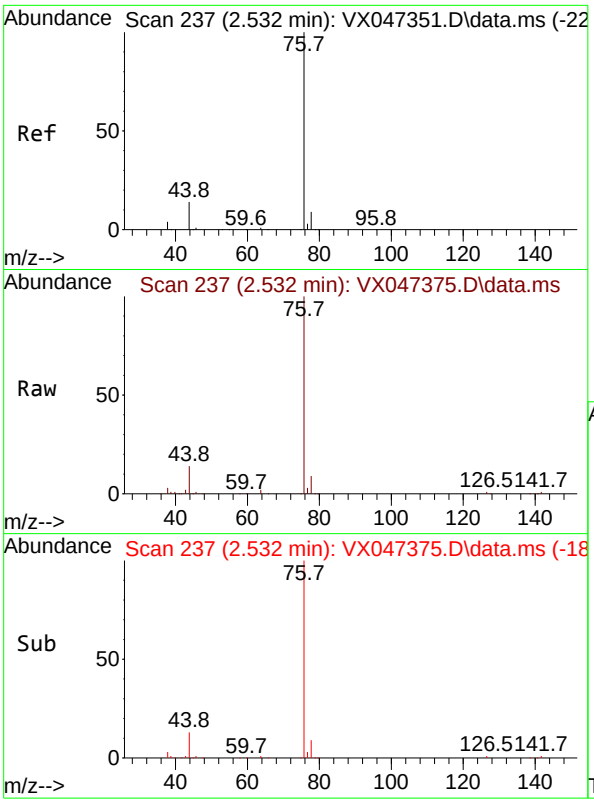


#16
Acetone
Concen: 101.012 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 43 Resp: 125152

Ion	Ratio	Lower	Upper
43	100		
58	30.3	24.8	37.2





#17
Carbon Disulfide
Concen: 21.448 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 76 Resp: 19192

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

Instrument :
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ClientSampleId :
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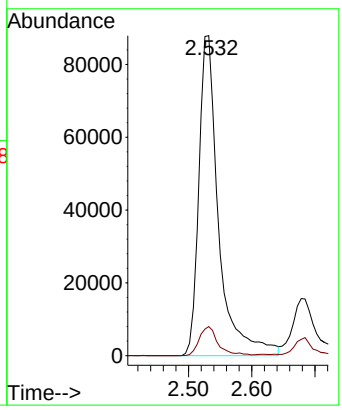
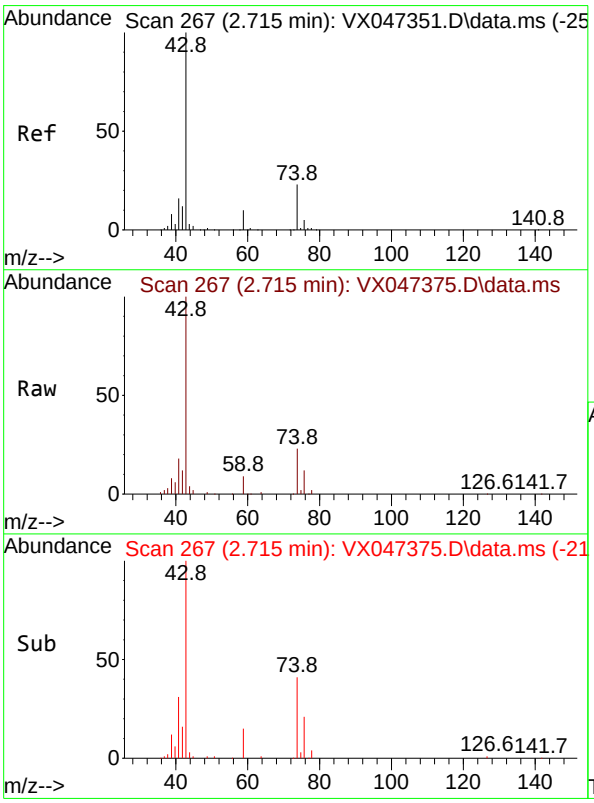
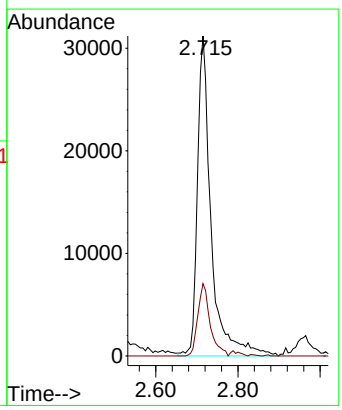


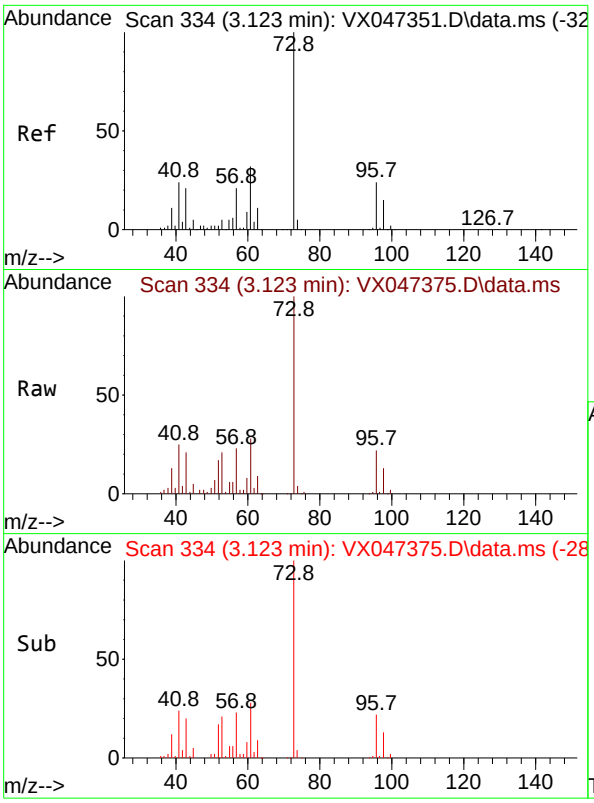


#18
Methyl Acetate
Concen: 22.433 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 43 Resp: 72026

Ion	Ratio	Lower	Upper
43	100		
74	20.3	18.4	27.6

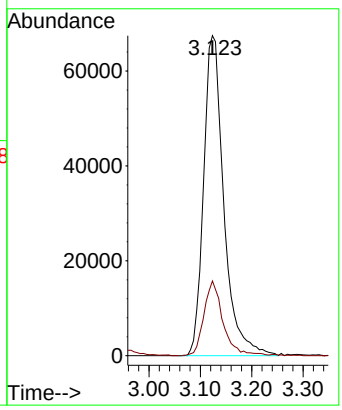




#19
Methyl tert-butyl Ether
Concen: 20.443 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 73 Resp: 18442

Ion	Ratio	Lower	Upper
73	100		
57	23.4	17.0	25.6



Instrument :
MSVOA_X
ClientSampleId :
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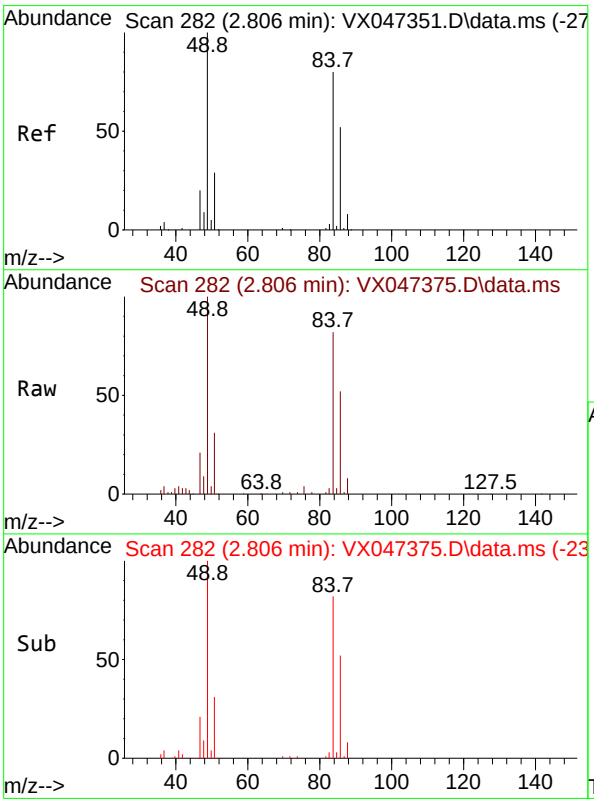
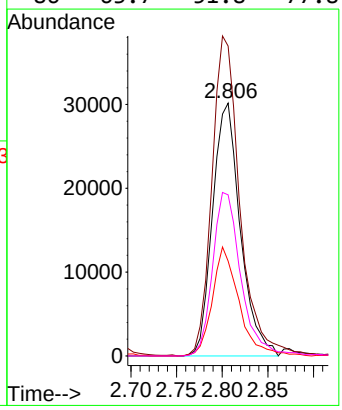
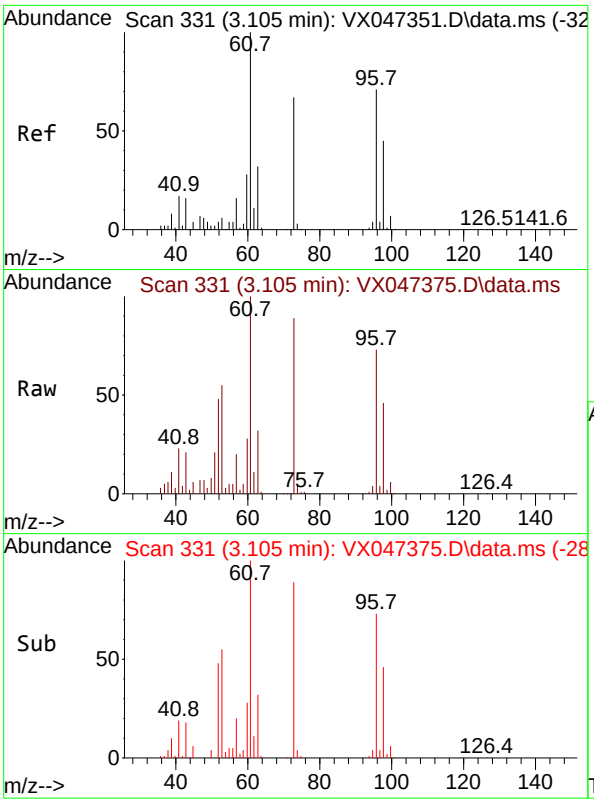


#20
Methylene Chloride
Concen: 19.409 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 84 Resp: 63679

Ion	Ratio	Lower	Upper
84	100		
49	122.6	100.1	150.1
51	37.5	29.5	44.3
86	63.7	51.8	77.8

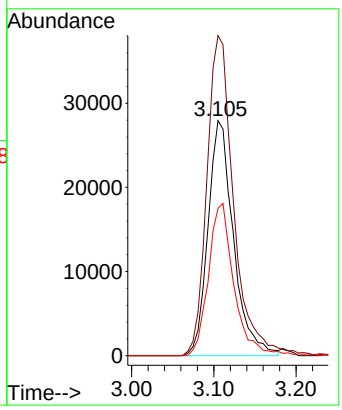




#21
trans-1,2-Dichloroethene
Concen: 19.143 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 96 Resp: 6025

Ion	Ratio	Lower	Upper
96	100		
61	136.2	112.6	169.0
98	62.7	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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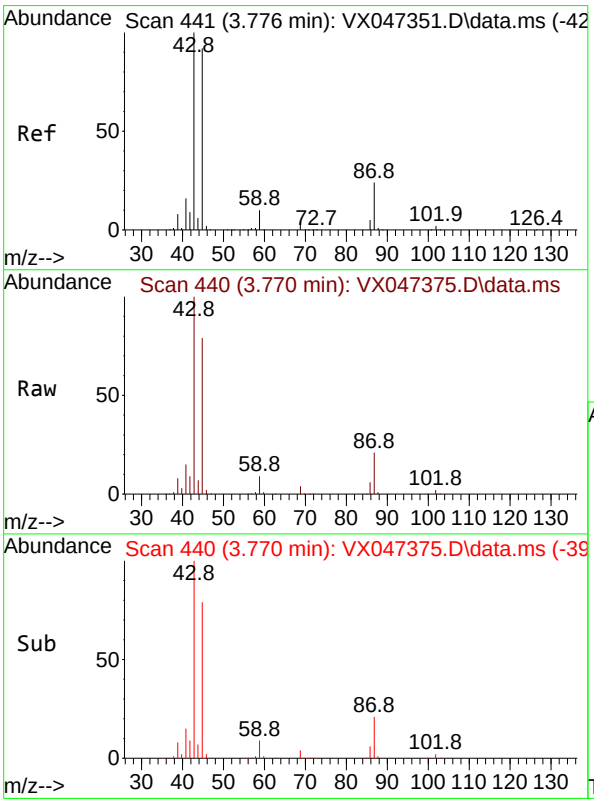
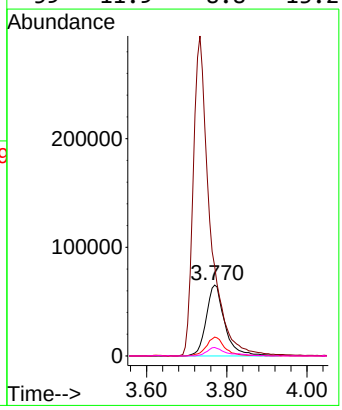
Supervised By :Mahesh Dadoda 08/20/2025

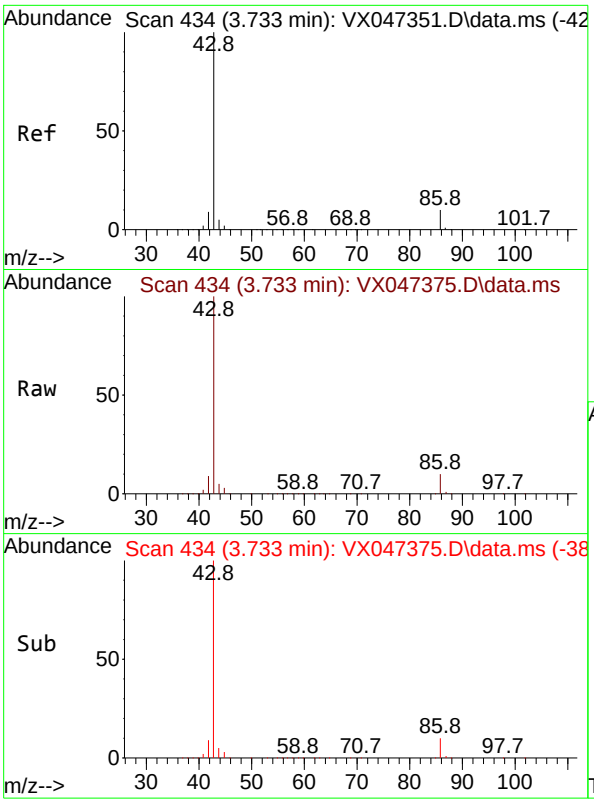


#22
Diisopropyl ether
Concen: 20.614 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 45 Resp: 209869

Ion	Ratio	Lower	Upper
45	100		
43	126.5	86.8	130.2
87	28.1	20.4	30.6
59	11.9	8.8	13.2





#23
Vinyl Acetate
Concen: 103.122 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 43 Resp: 86052

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.9	11.9

Instrument :
MSVOA_X
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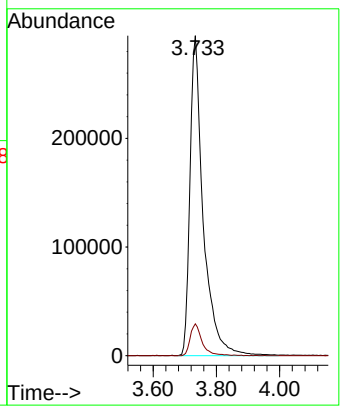
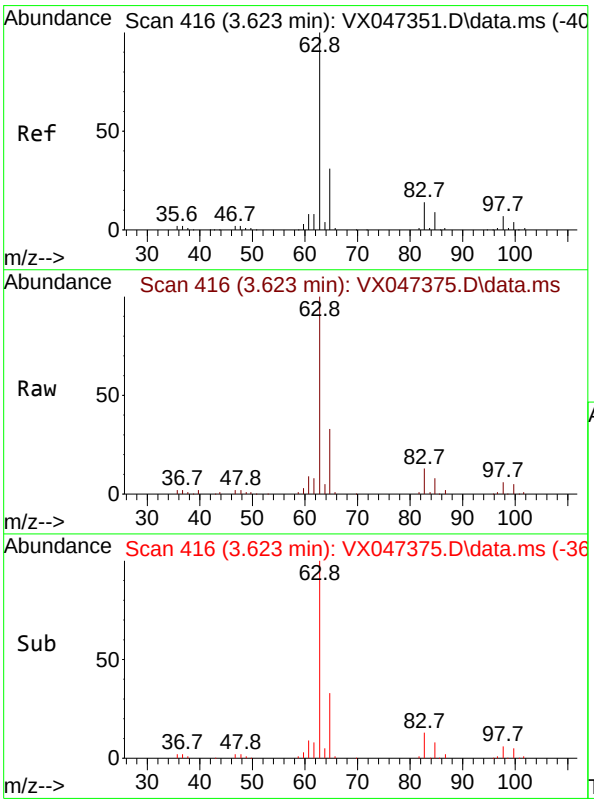
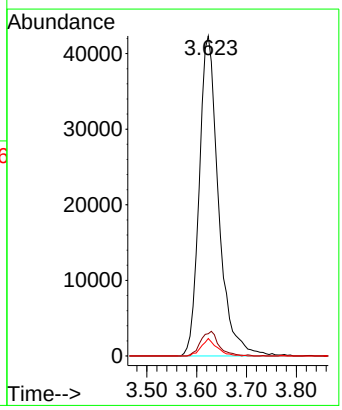


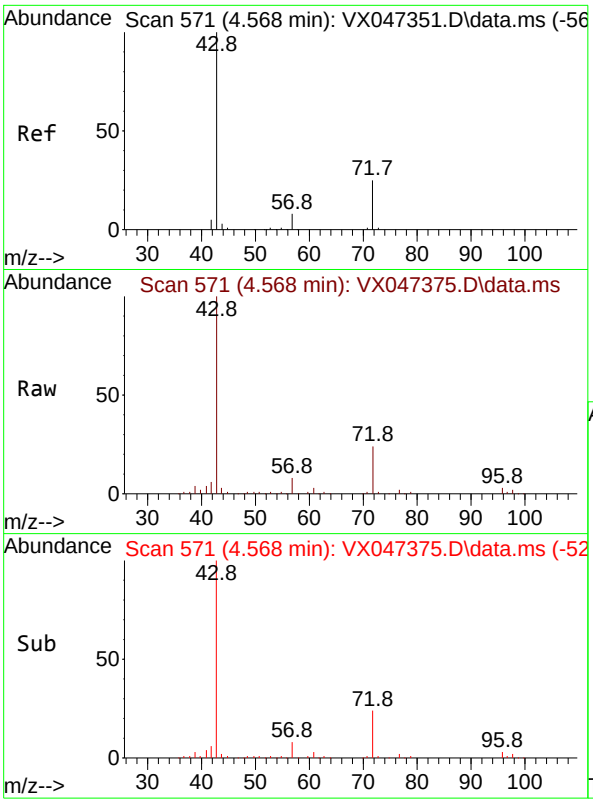


#24
1,1-Dichloroethane
Concen: 19.778 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 63 Resp: 113813

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.9
100	5.5	2.1	6.3

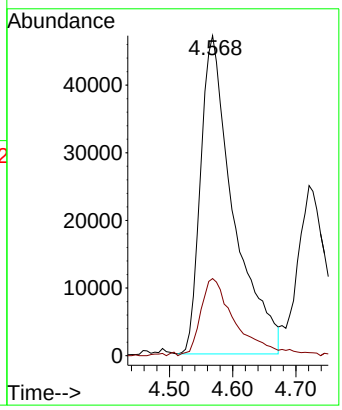




#25
2-Butanone
Concen: 104.434 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 43 Resp: 16946

Ion	Ratio	Lower	Upper
43	100		
72	23.3	19.8	29.8



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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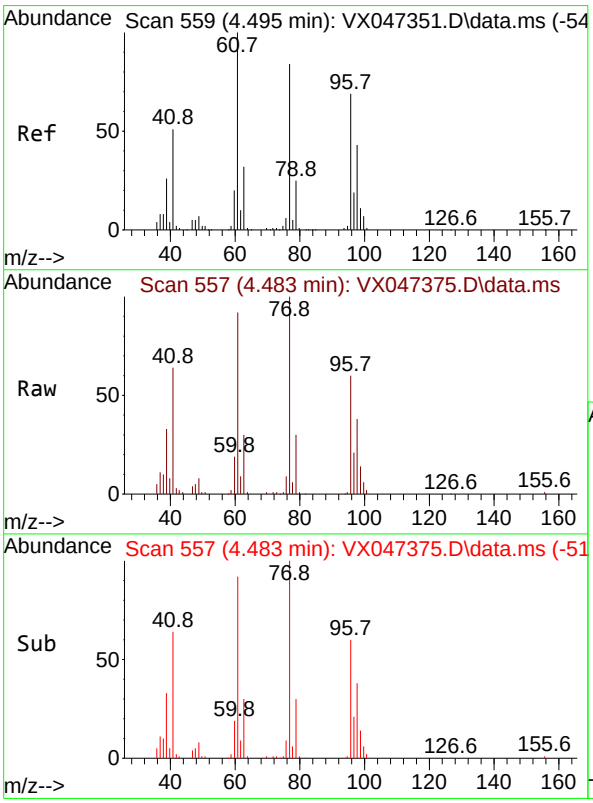
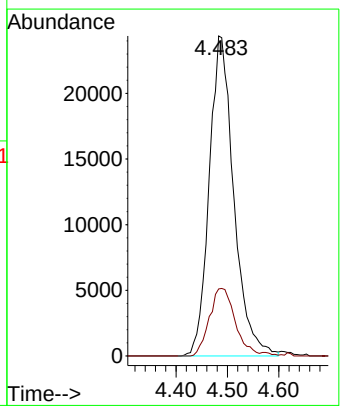
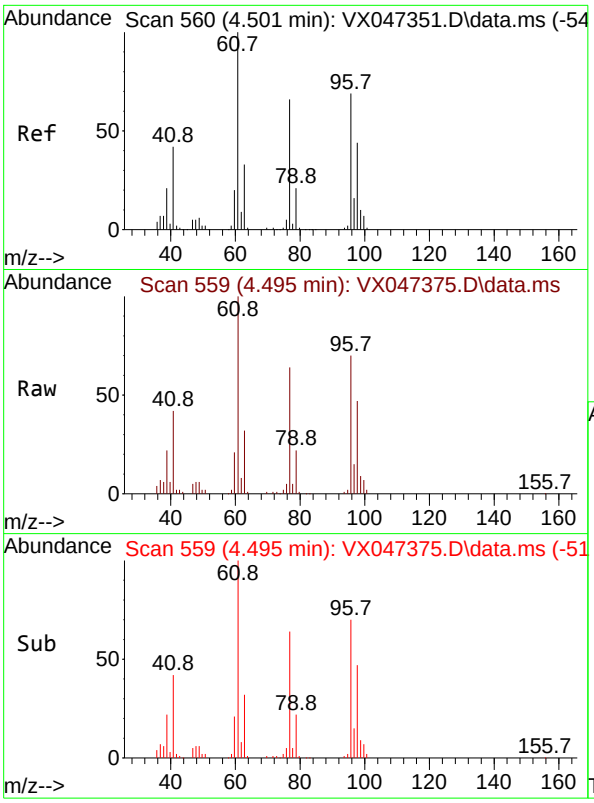


#26
2,2-Dichloropropane
Concen: 18.626 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.012 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 77 Resp: 80899

Ion	Ratio	Lower	Upper
77	100		
97	22.0	11.4	34.1

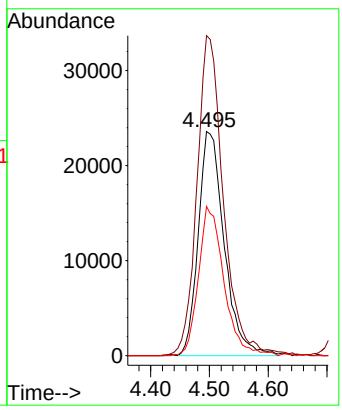




#27
cis-1,2-Dichloroethene
Concen: 19.762 ug/l
RT: 4.495 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 96 Resp: 7244

Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	296.6
98	65.4	0.0	130.4



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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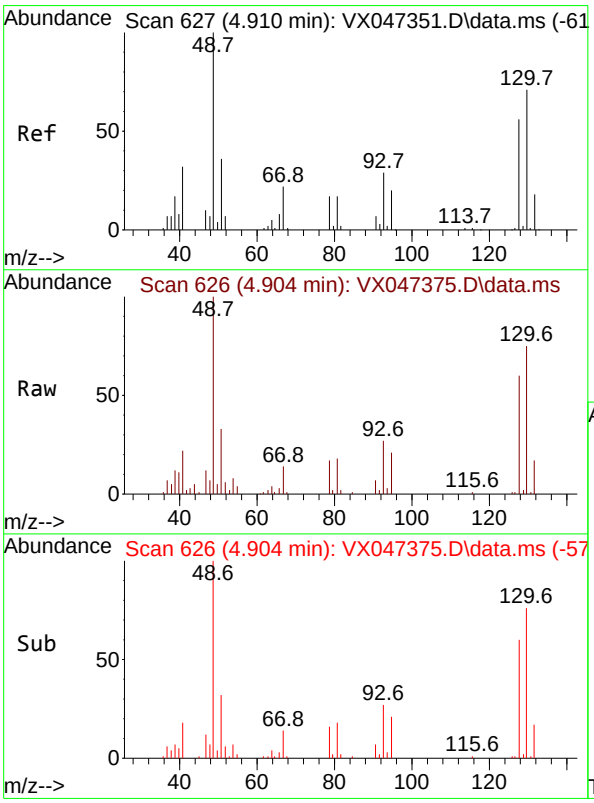
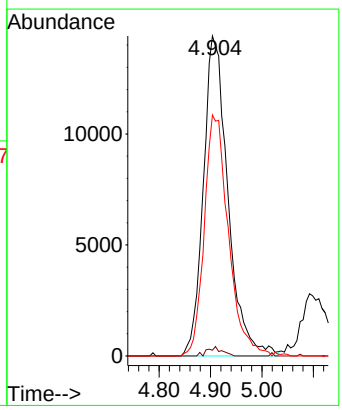
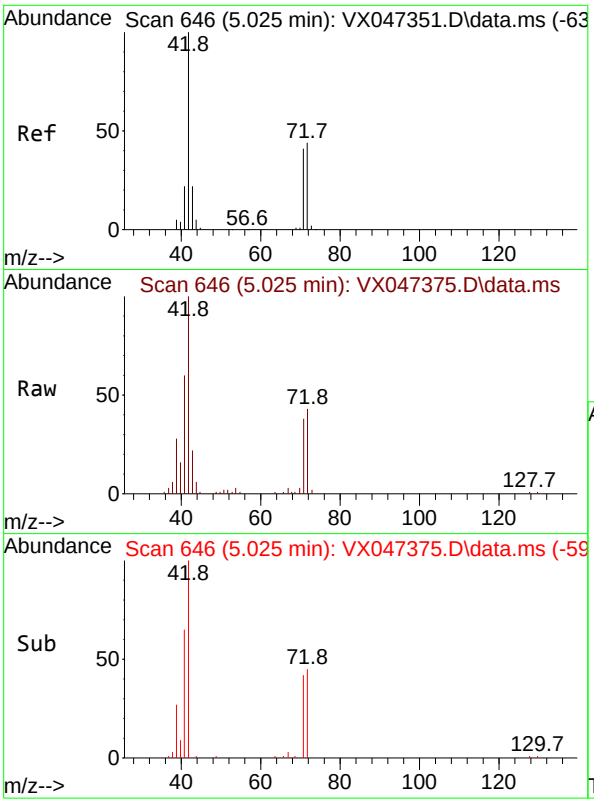


#28
Bromochloromethane
Concen: 19.976 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 49 Resp: 47835

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	4.0
130	74.0	59.8	89.6

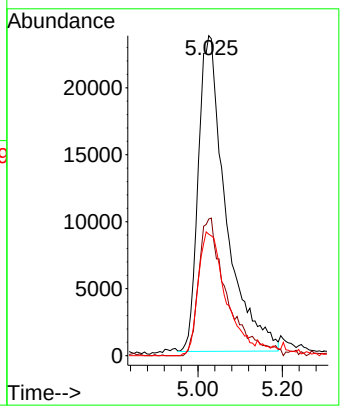




#29
Tetrahydrofuran
Concen: 102.008 ug/l
RT: 5.025 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 42 Resp: 10698

Ion	Ratio	Lower	Upper
42	100		
72	44.8	34.6	51.8
71	39.3	32.6	49.0



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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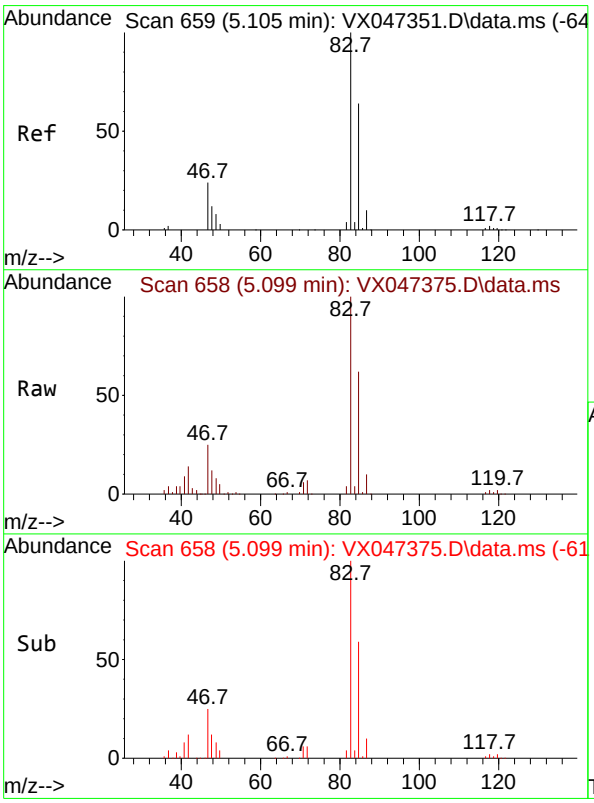
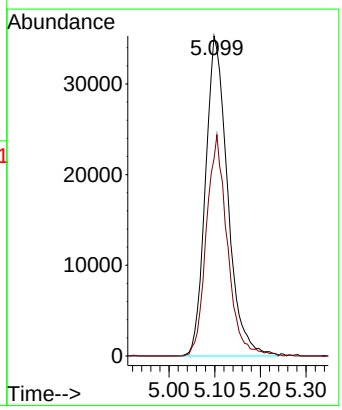
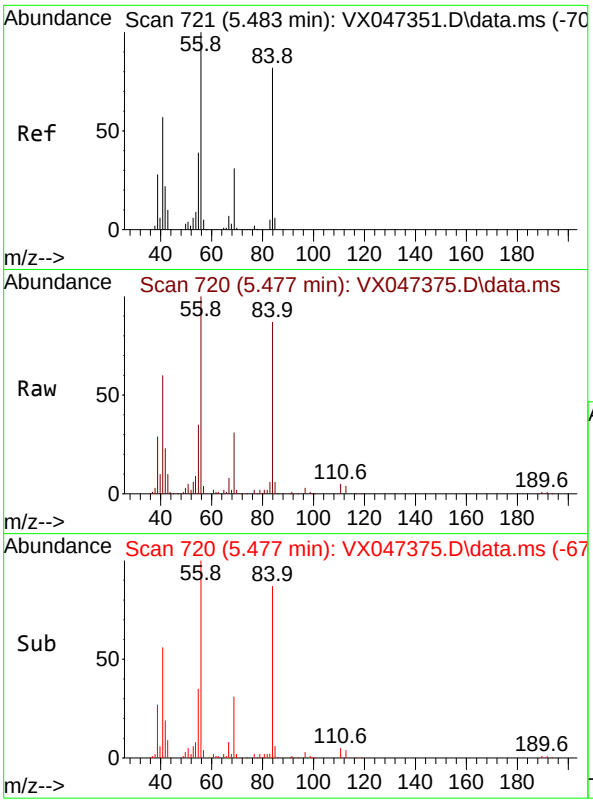


#30
Chloroform
Concen: 20.217 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 83 Resp: 118735

Ion	Ratio	Lower	Upper
83	100		
85	61.7	51.2	76.8





#31
Cyclohexane
Concen: 19.325 ug/l
RT: 5.477 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 56 Resp: 10251

Ion	Ratio	Lower	Upper
56	100		
69	31.4	24.3	36.5
84	86.6	65.3	97.9

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Manual Integrations
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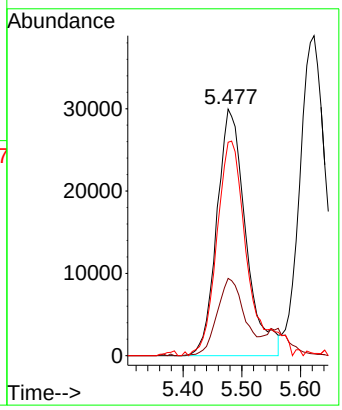
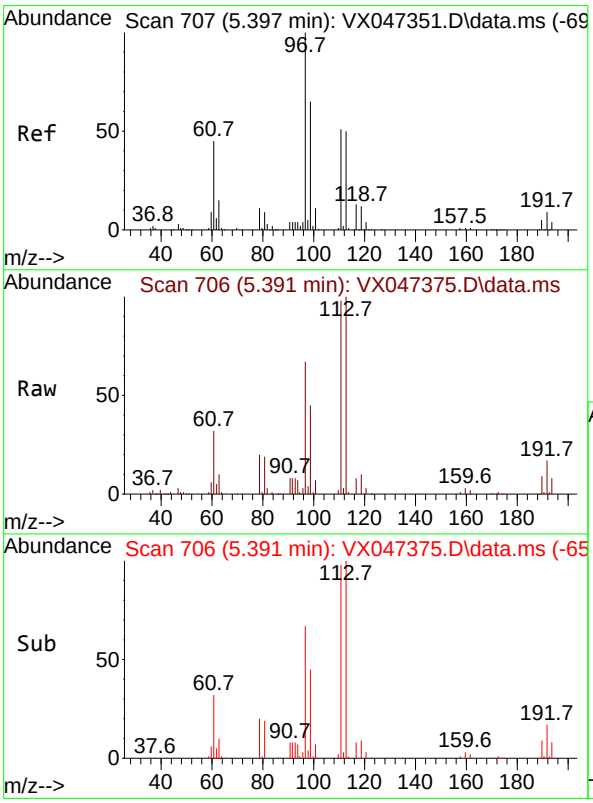
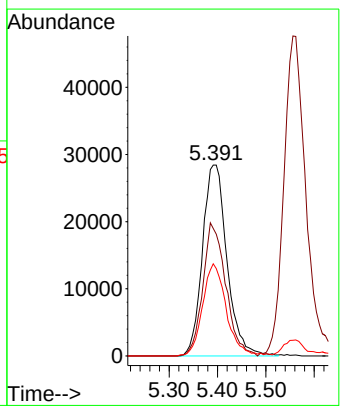


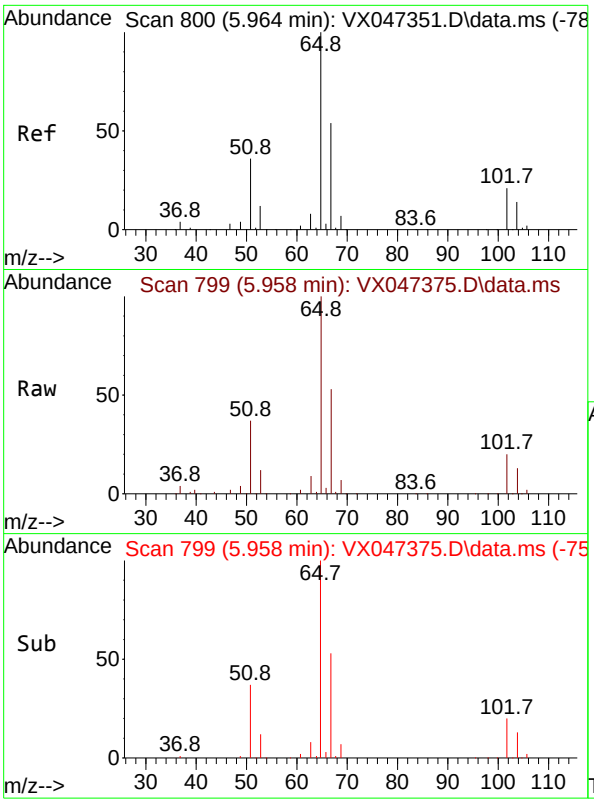


#32
1,1,1-Trichloroethane
Concen: 19.811 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 97 Resp: 100146

Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.4	77.0
61	46.9	35.7	53.5

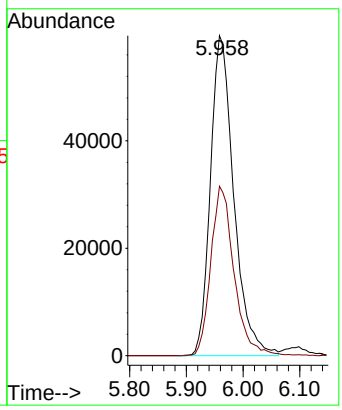




#33
1,2-Dichloroethane-d4
Concen: 51.750 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 65 Resp: 17057

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	106.0



Instrument :
MSVOA_X
ClientSampleId :
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Manual Integrations
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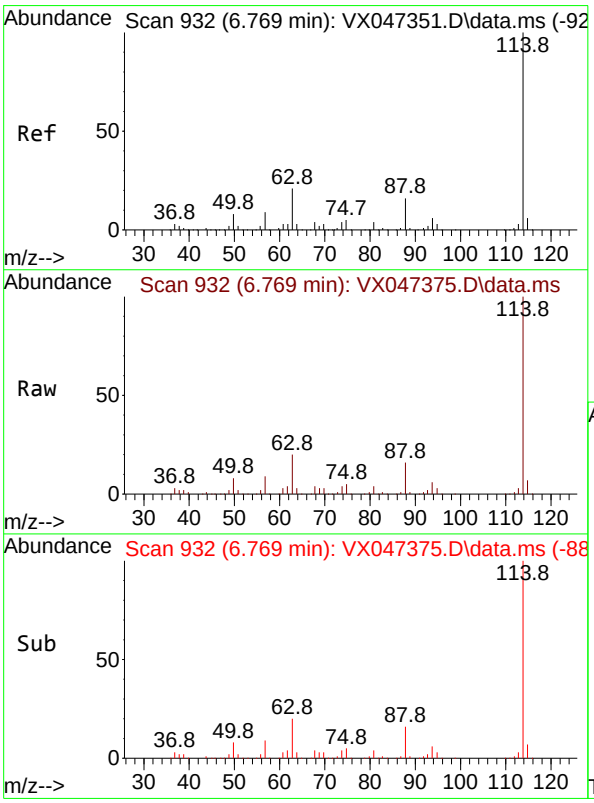
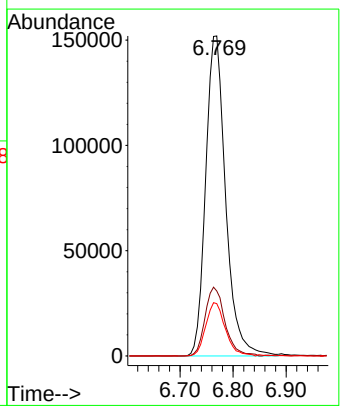
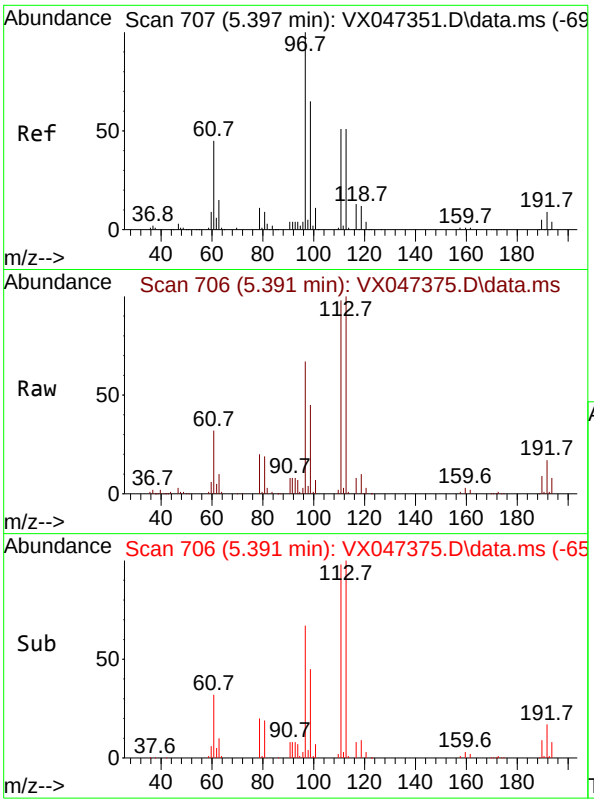


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:114 Resp: 398008

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.4
88	16.4	0.0	33.0

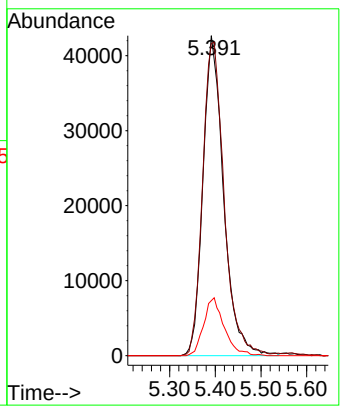




#35
Dibromofluoromethane
Concen: 51.666 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:113 Resp: 13345

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.4	122.2
192	18.1	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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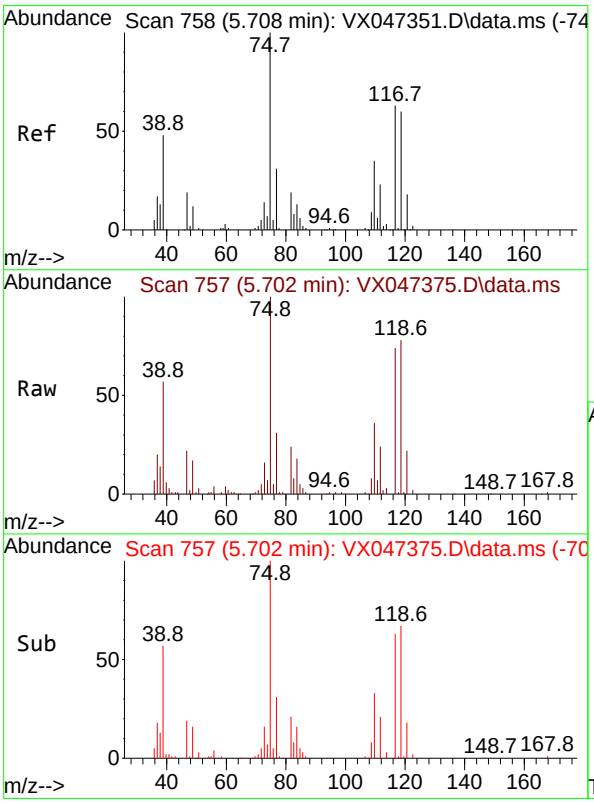
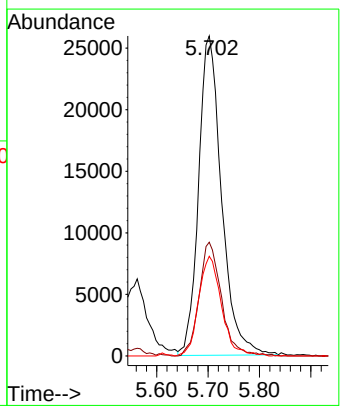
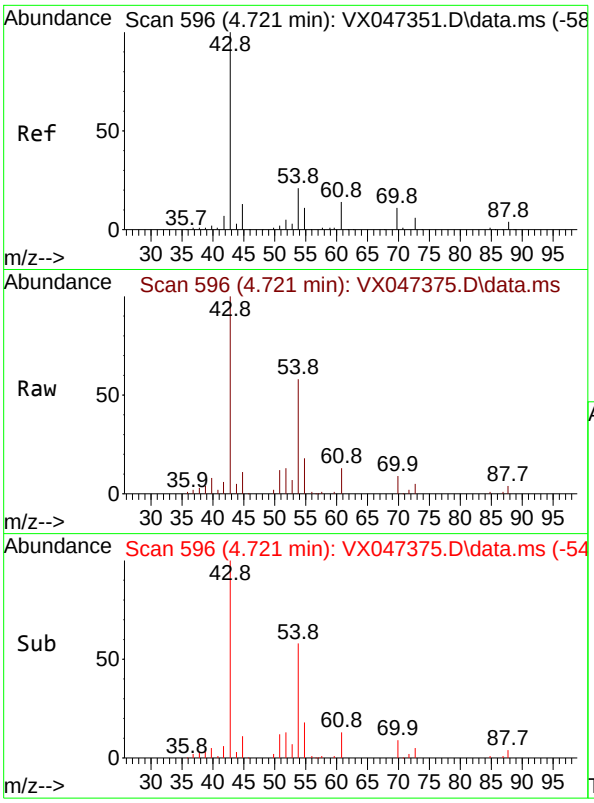


#36
1,1-Dichloropropene
Concen: 19.797 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 75 Resp: 80725

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.4	52.2
77	31.0	24.4	36.6





#37
Ethyl Acetate
Concen: 18.776 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 43 Resp: 7948

Ion	Ratio	Lower	Upper
43	100		
61	12.7	9.4	14.2
70	10.3	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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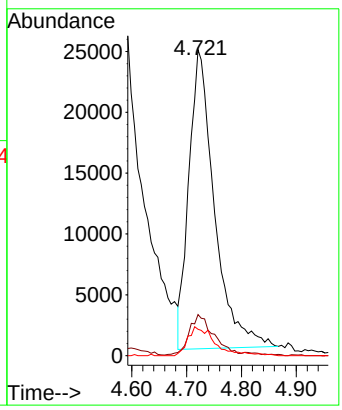
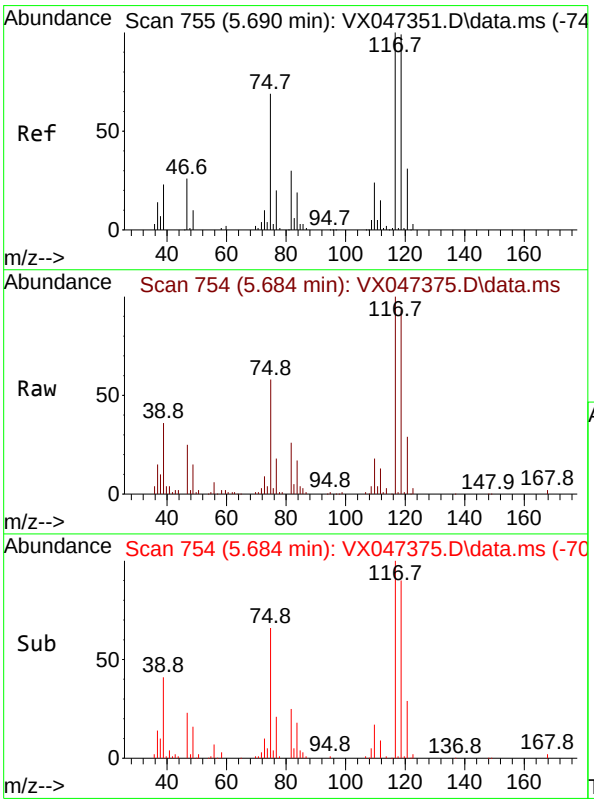
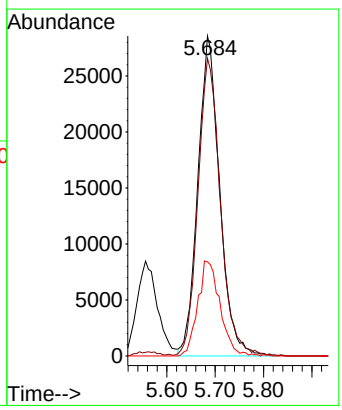


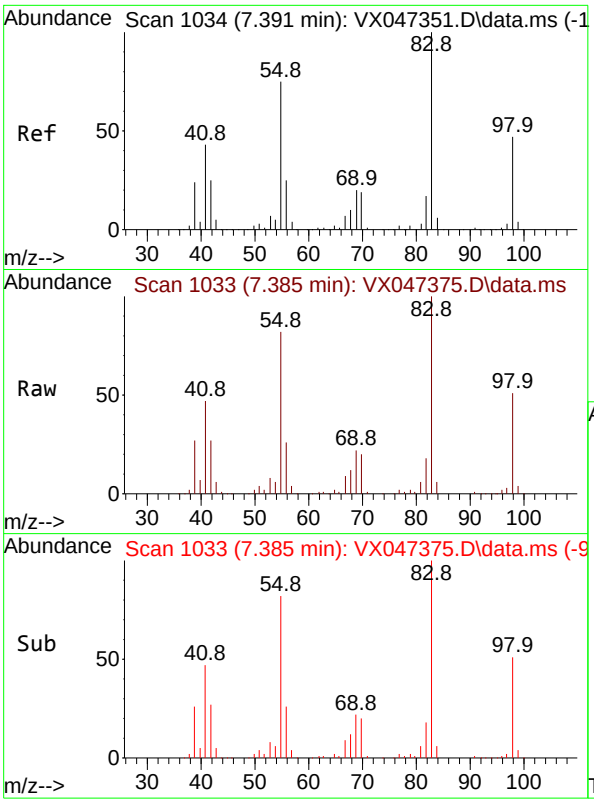


#38
Carbon Tetrachloride
Concen: 20.115 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:117 Resp: 89631

Ion	Ratio	Lower	Upper
117	100		
119	92.8	78.5	117.7
121	29.4	24.7	37.1

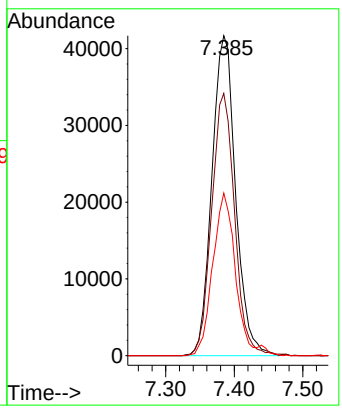




#39
Methylcyclohexane
Concen: 19.665 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 83 Resp: 10002

Ion	Ratio	Lower	Upper
83	100		
55	82.0	60.0	90.0
98	50.8	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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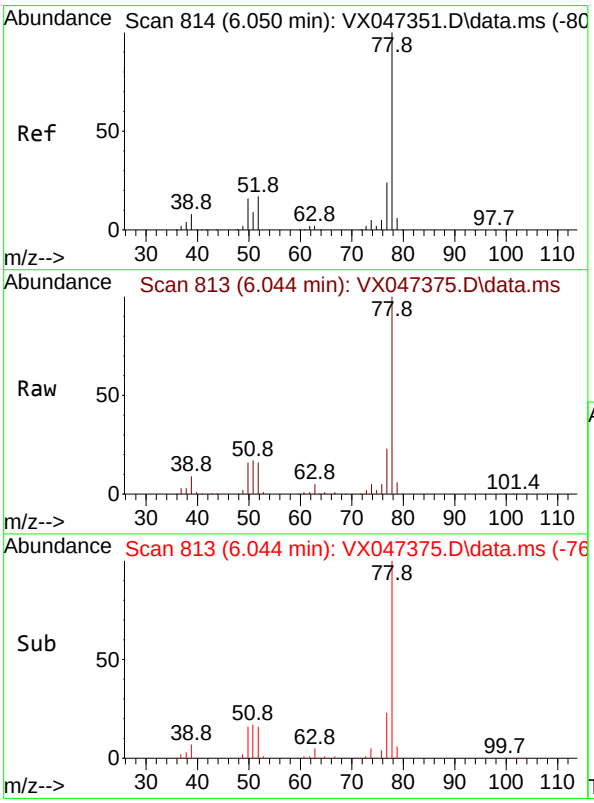
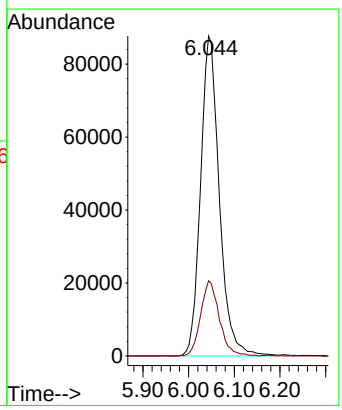
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

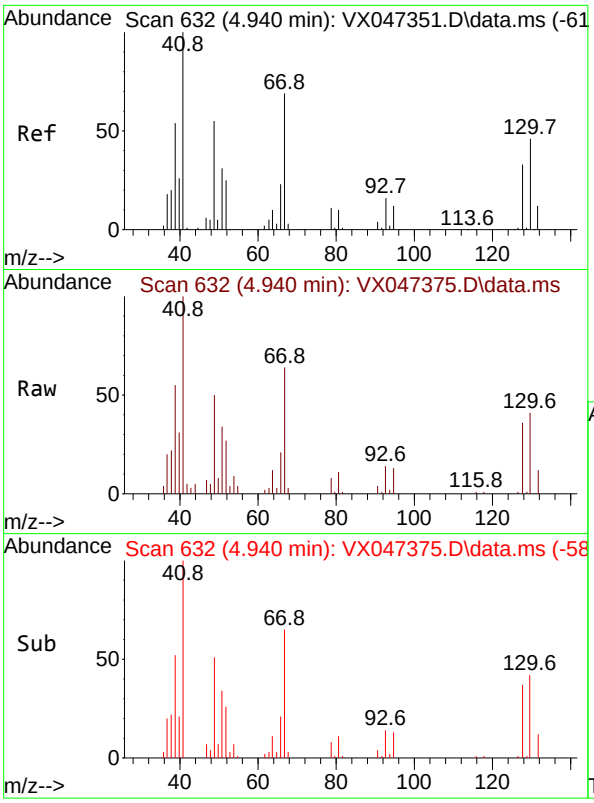


#40
Benzene
Concen: 20.455 ug/l
RT: 6.044 min Scan# 813
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 78 Resp: 249658

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4

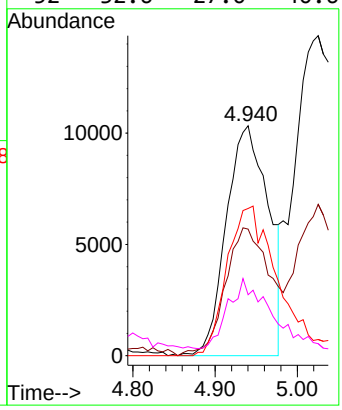




#41
Methacrylonitrile
Concen: 20.643 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 41 Resp: 3685

Ion	Ratio	Lower	Upper
41	100		
39	59.8	45.4	68.2
67	79.3	64.0	96.0
52	32.6	27.0	40.6



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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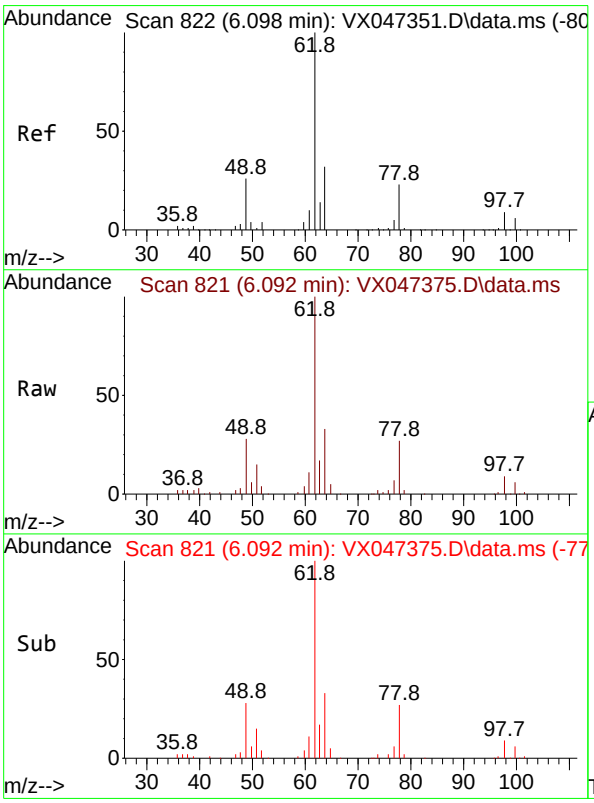
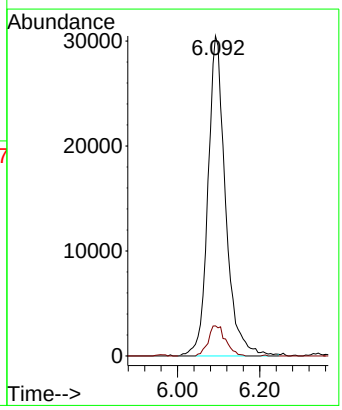
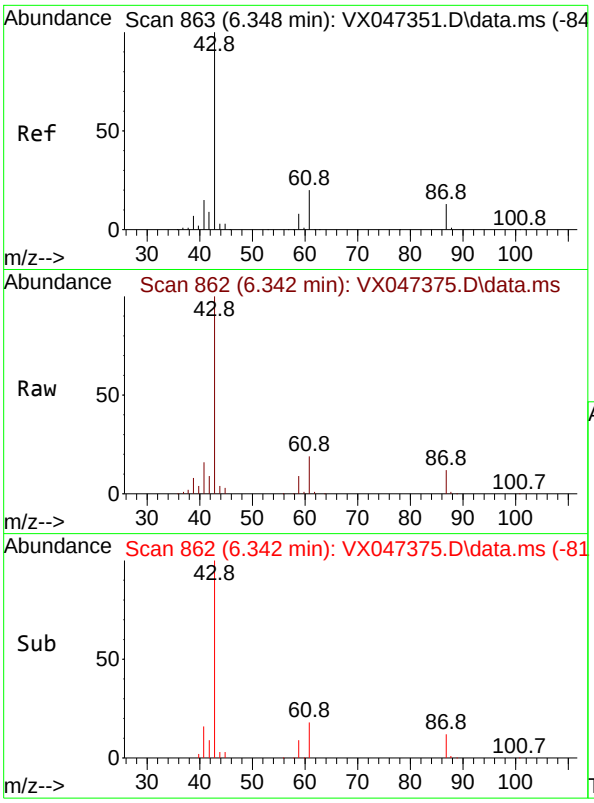


#42
1,2-Dichloroethane
Concen: 20.898 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 62 Resp: 90345

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.0

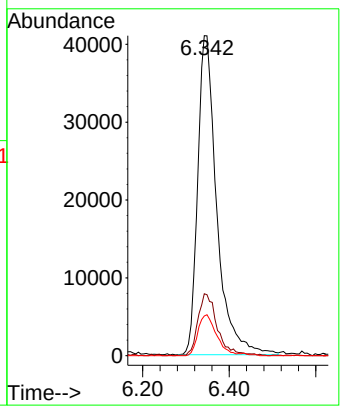




#43
Isopropyl Acetate
Concen: 20.627 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 43 Resp: 12544

Ion	Ratio	Lower	Upper
43	100		
61	19.8	15.4	23.0
87	12.5	10.2	15.4



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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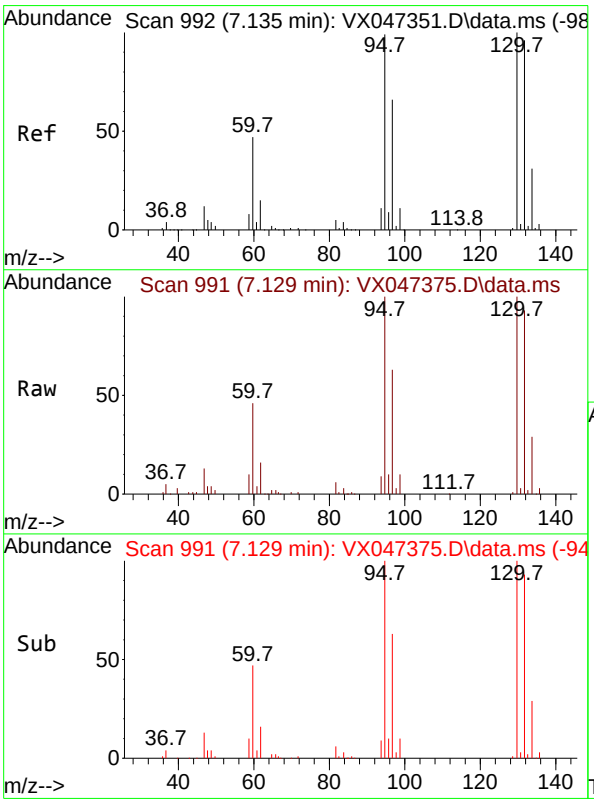
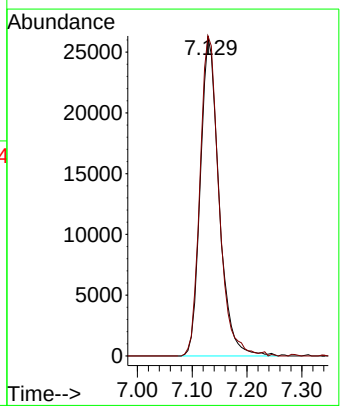
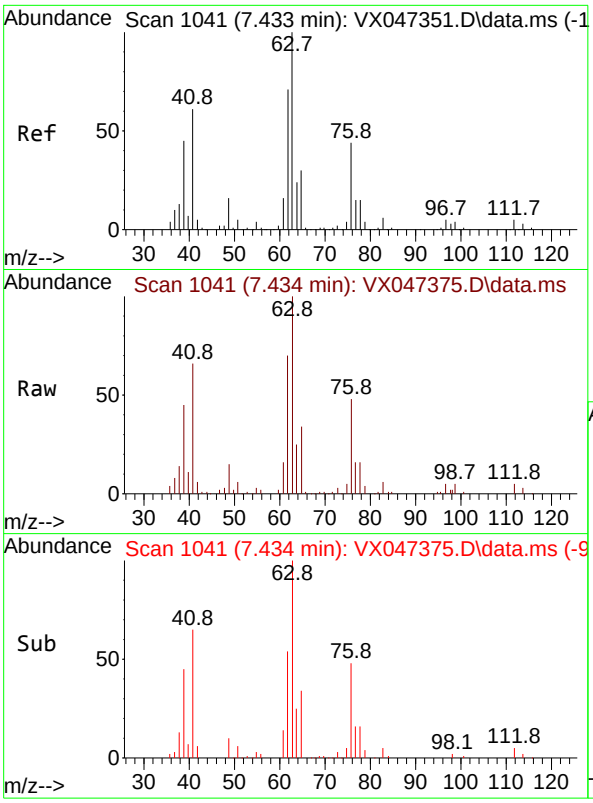


#44
Trichloroethene
Concen: 19.804 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:130 Resp: 61892

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	198.6

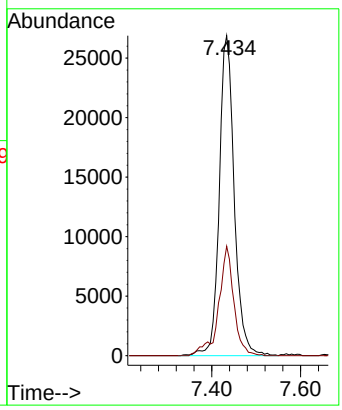




#45
1,2-Dichloropropane
Concen: 20.519 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 63 Resp: 6274

Ion	Ratio	Lower	Upper
63	100		
65	34.2	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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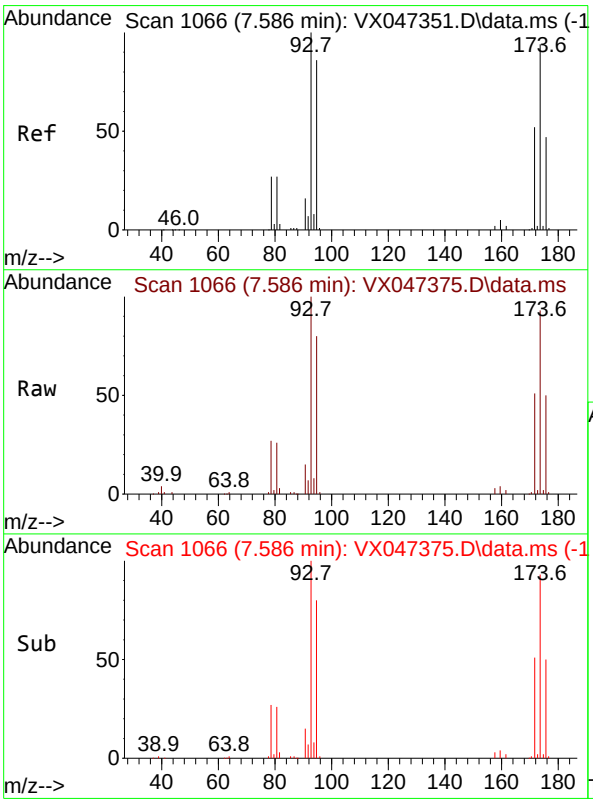
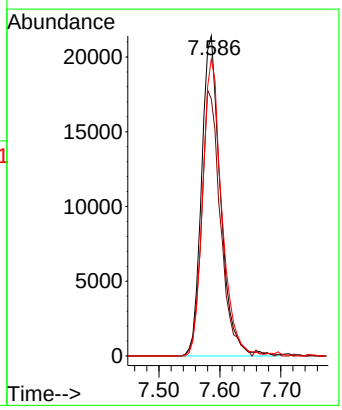
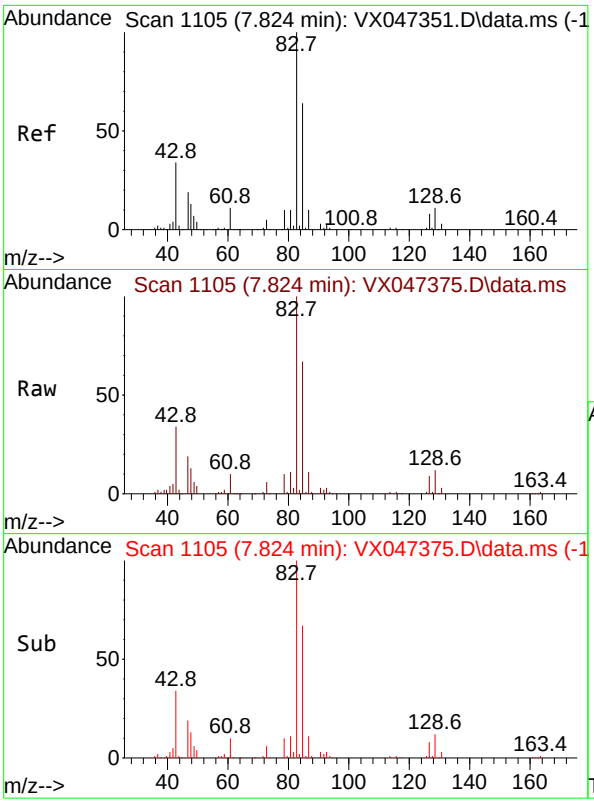


#46
Dibromomethane
Concen: 20.871 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 93 Resp: 46329

Ion	Ratio	Lower	Upper
93	100		
95	82.0	68.0	102.0
174	93.5	75.8	113.6

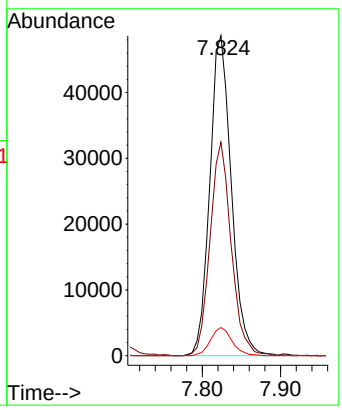




#47
Bromodichloromethane
Concen: 20.201 ug/l
RT: 7.824 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 83 Resp: 9296

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.0	76.6
127	8.6	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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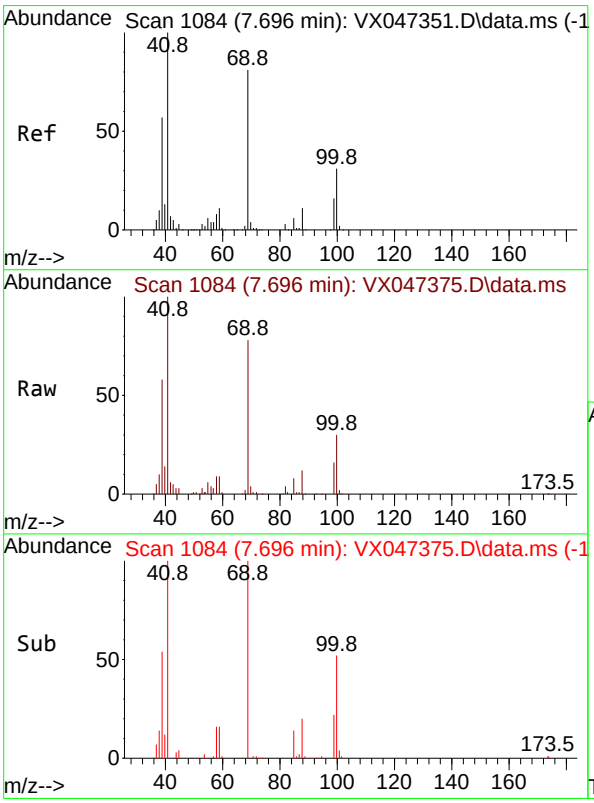
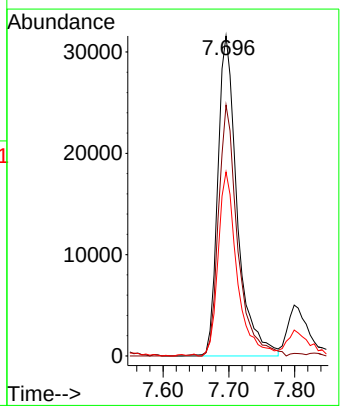
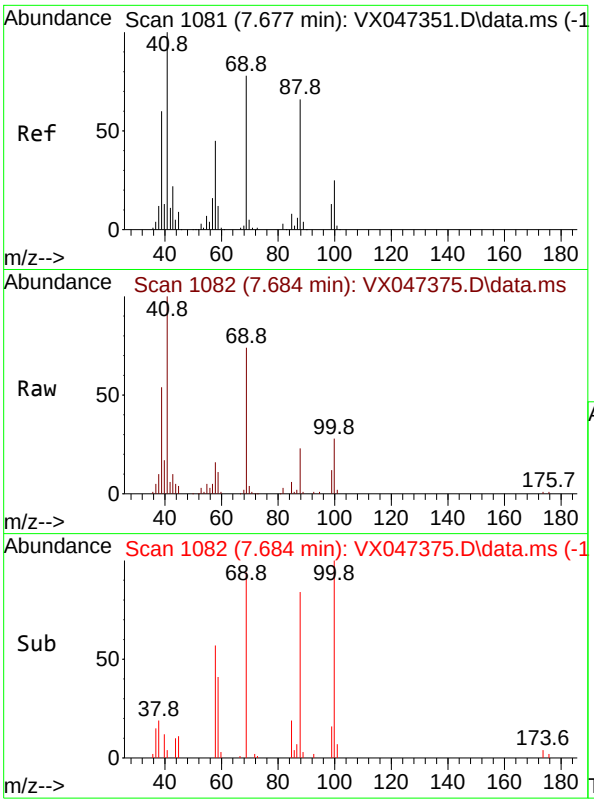


#48
Methyl methacrylate
Concen: 20.557 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 41 Resp: 64892

Ion	Ratio	Lower	Upper
41	100		
69	77.1	65.0	97.4
39	55.9	45.7	68.5

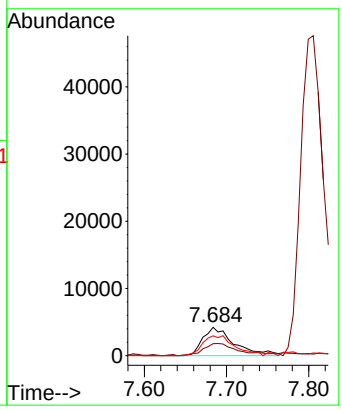




#49
1,4-Dioxane
Concen: 365.275 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 88 Resp: 1120

Ion	Ratio	Lower	Upper
88	100		
43	47.7	32.4	48.6
58	71.5	56.9	85.3



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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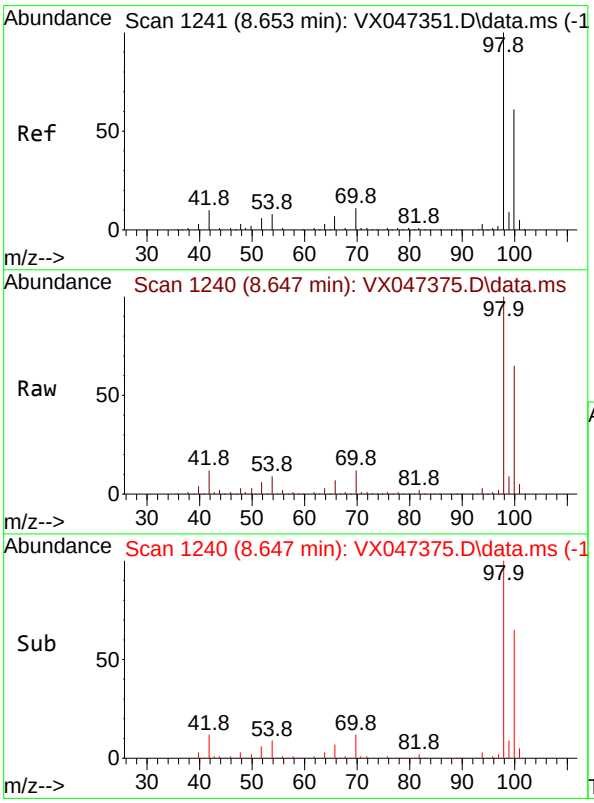
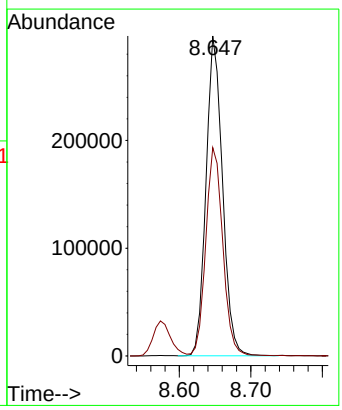
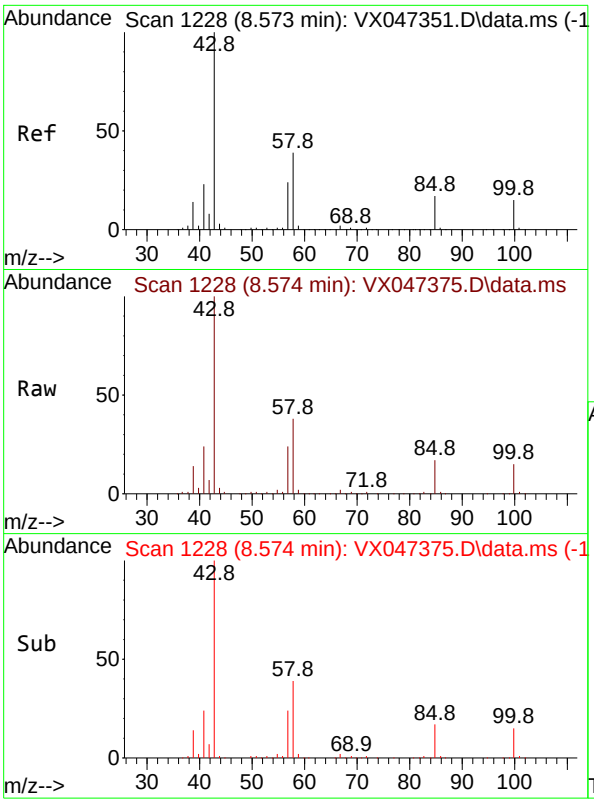


#50
Toluene-d8
Concen: 51.399 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 98 Resp: 474556

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.9	80.9

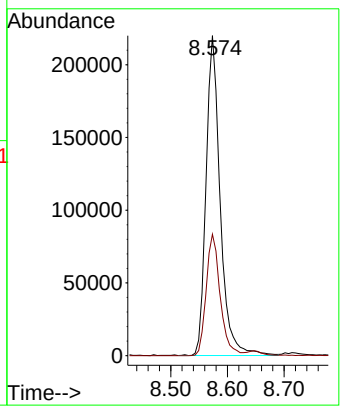




#51
4-Methyl-2-Pentanone
Concen: 108.800 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 43 Resp: 38075

Ion	Ratio	Lower	Upper
43	100		
58	37.7	31.2	46.8



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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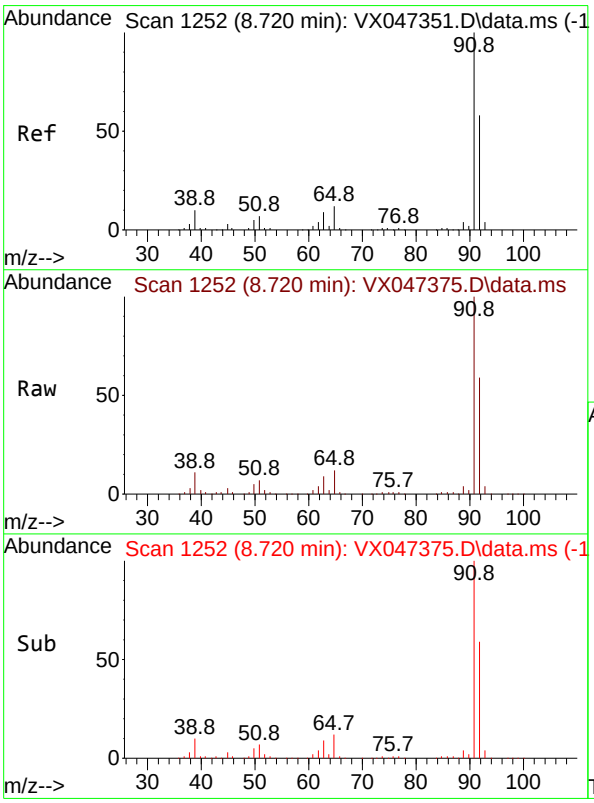
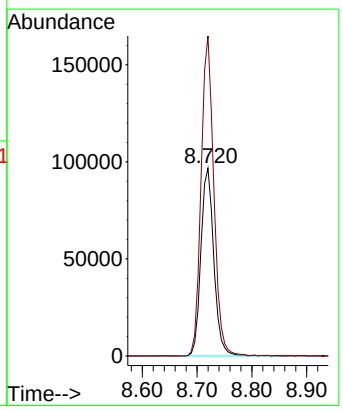
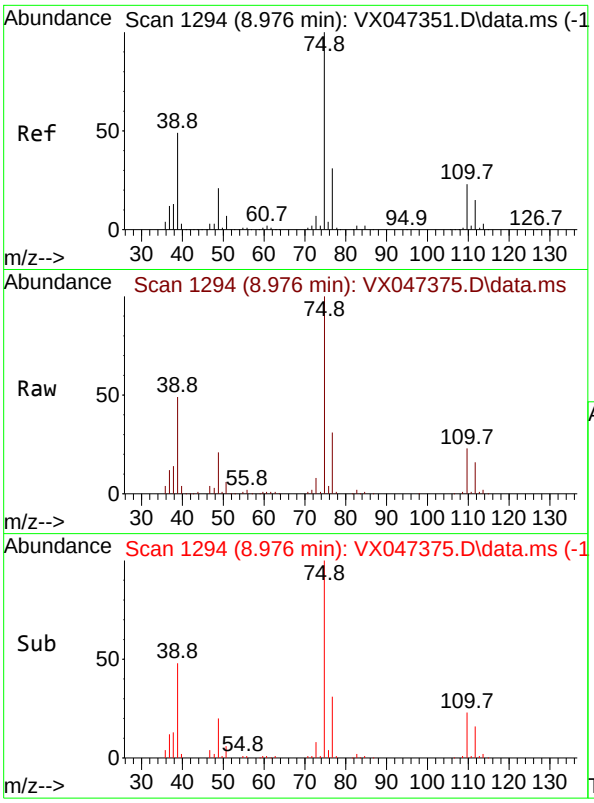


#52
Toluene
Concen: 20.978 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 92 Resp: 158216

Ion	Ratio	Lower	Upper
92	100		
91	167.6	136.3	204.5

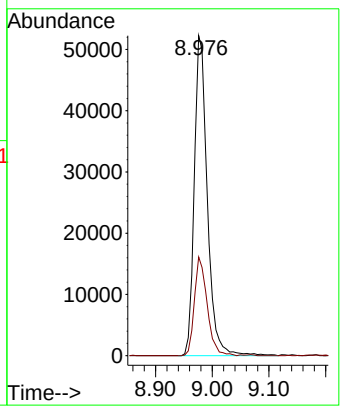




#53
t-1,3-Dichloropropene
Concen: 20.773 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 75 Resp: 8343

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.7	37.1



Instrument :
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ClientSampleId :
VX0818WBSD01

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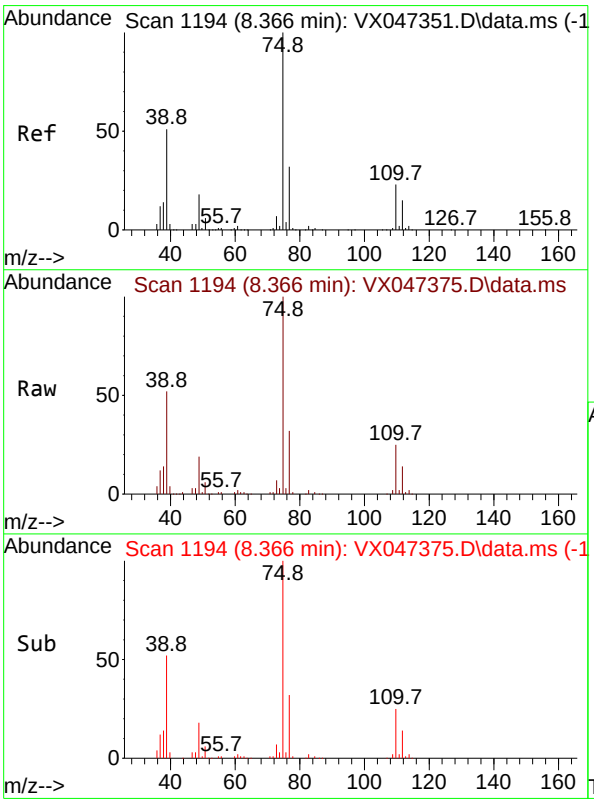
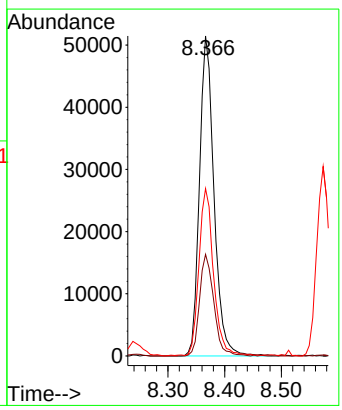
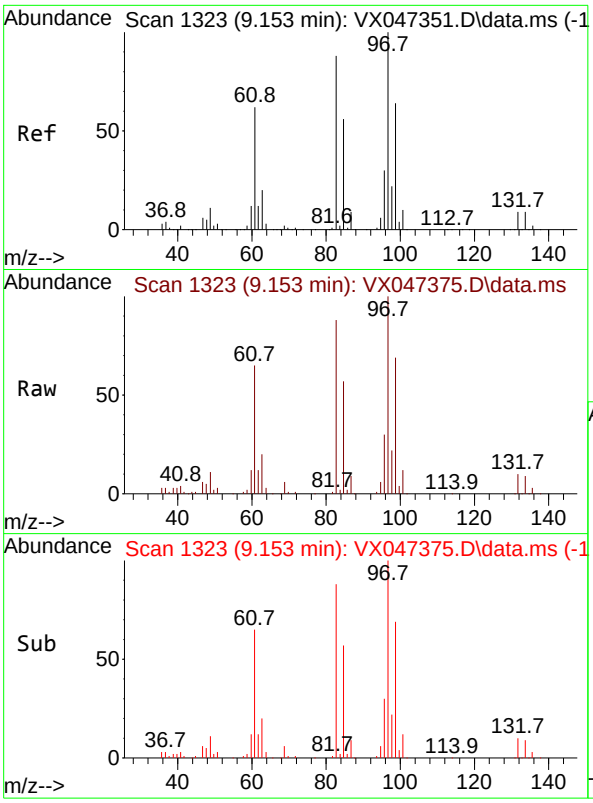


#54
cis-1,3-Dichloropropene
Concen: 20.167 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 75 Resp: 91678

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.6	38.4
39	52.2	40.9	61.3

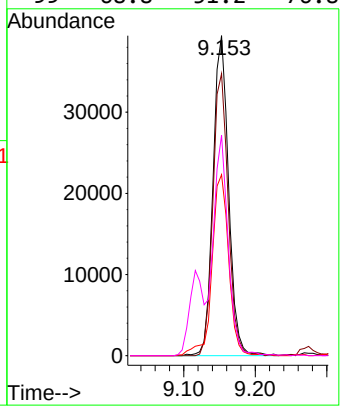




#55
1,1,2-Trichloroethane
Concen: 20.823 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 97 Resp: 5962

Ion	Ratio	Lower	Upper
97	100		
83	88.1	70.6	106.0
85	56.5	44.7	67.1
99	68.8	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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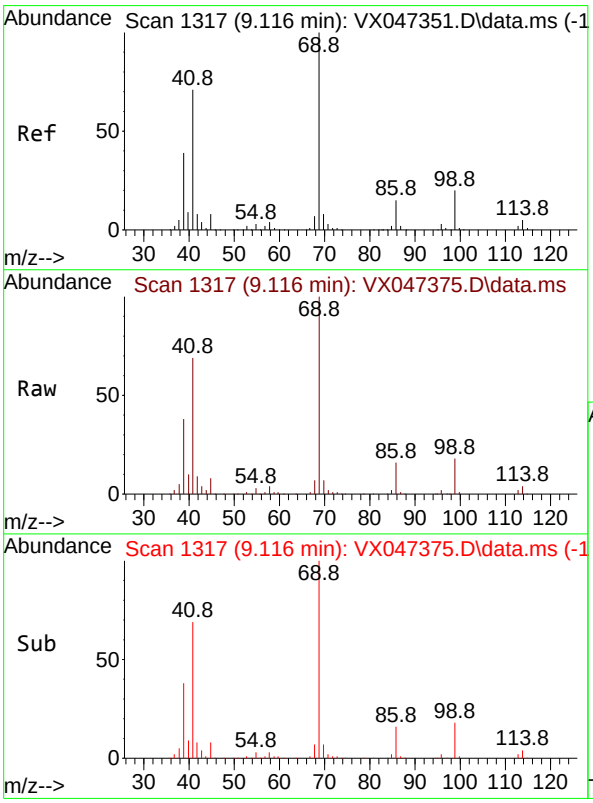
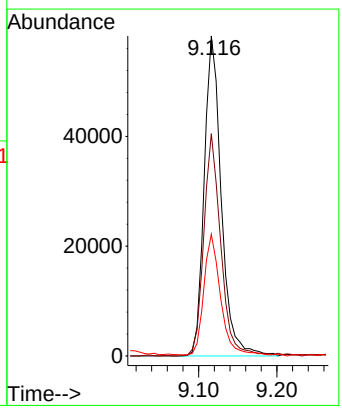
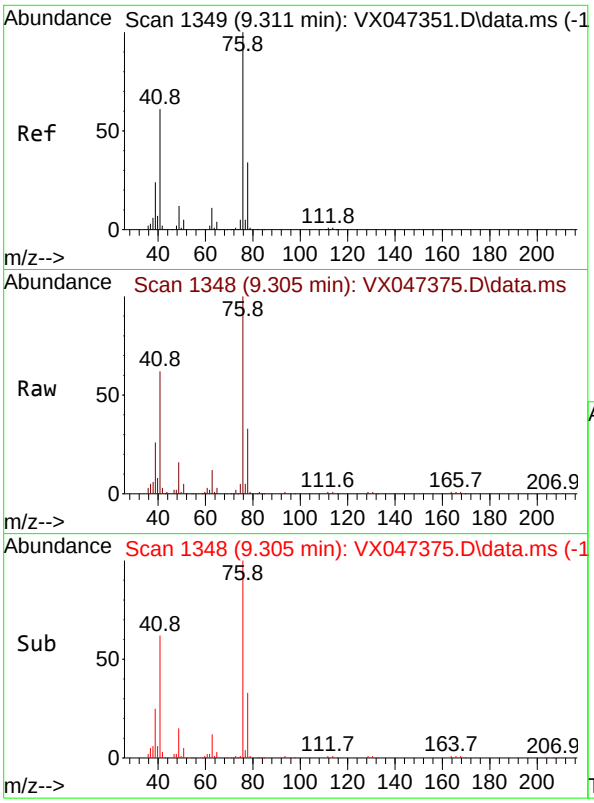


#56
Ethyl methacrylate
Concen: 20.928 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 69 Resp: 88354

Ion	Ratio	Lower	Upper
69	100		
41	69.0	55.3	82.9
39	36.6	30.2	45.2





#57
1,3-Dichloropropane
Concen: 21.076 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 76 Resp: 10283

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.2

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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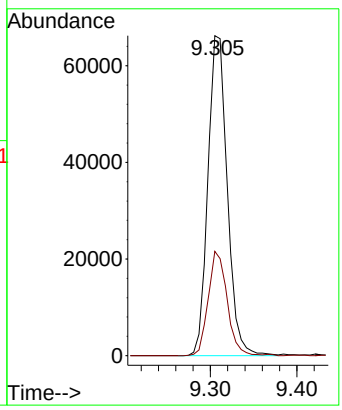
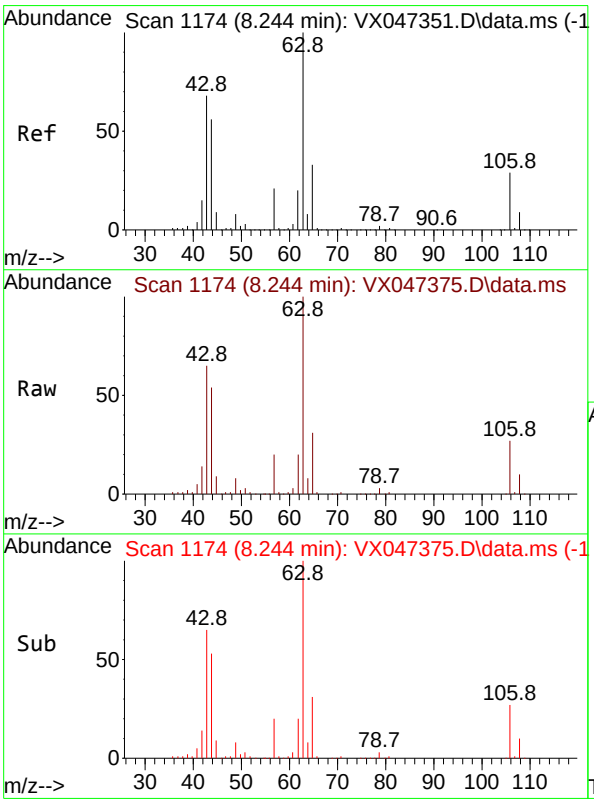
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

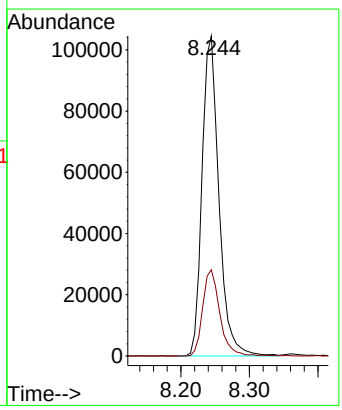


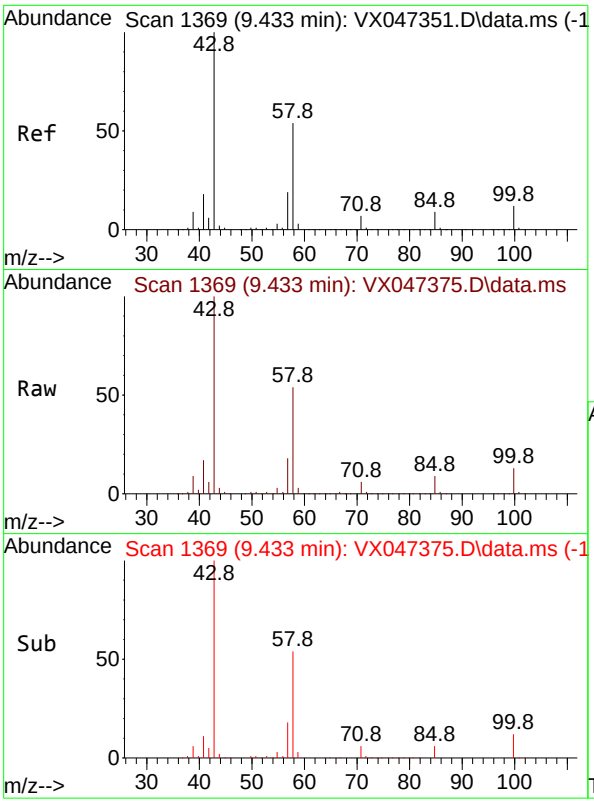


#58
2-Chloroethyl Vinyl ether
Concen: 94.134 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 63 Resp: 178905

Ion	Ratio	Lower	Upper
63	100		
106	27.5	22.8	34.2

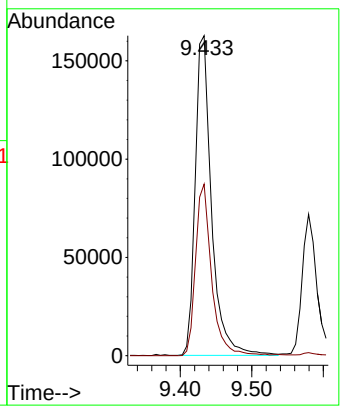




#59
2-Hexanone
Concen: 106.690 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 43 Resp: 25826

Ion	Ratio	Lower	Upper
43	100		
58	52.8	26.9	80.7



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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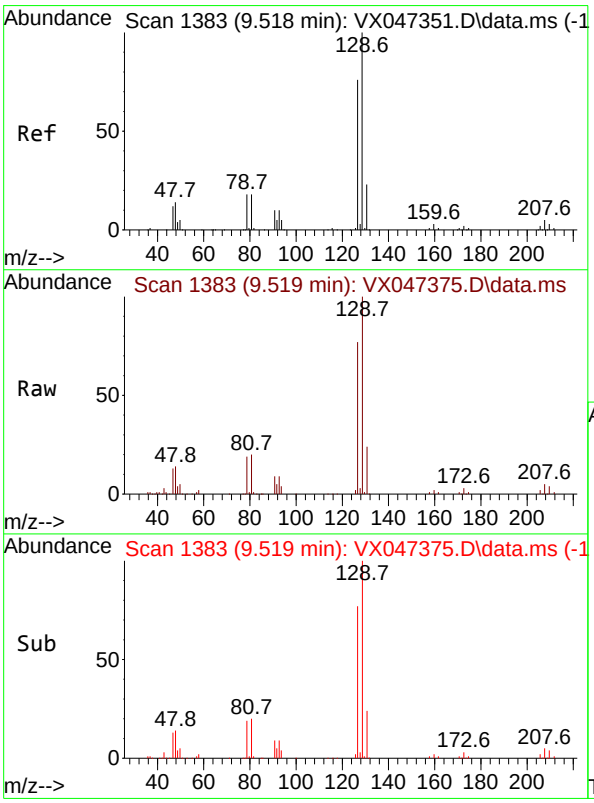
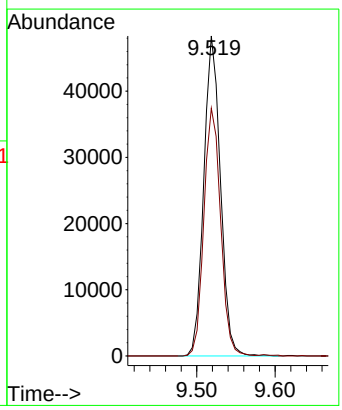
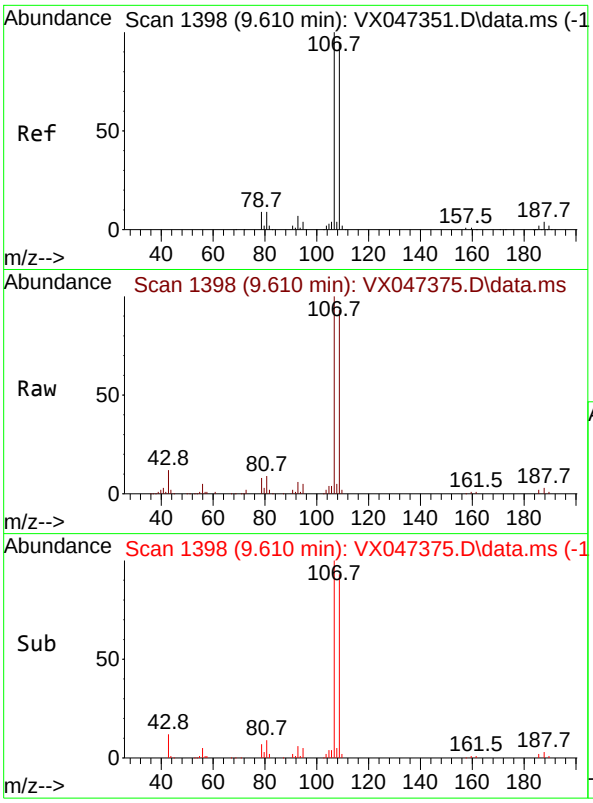


#60
Dibromochloromethane
Concen: 20.951 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:129 Resp: 71298

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.9	116.6

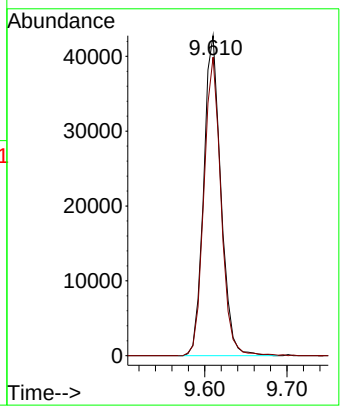




#61
1,2-Dibromoethane
Concen: 21.021 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:107 Resp: 6207

Ion	Ratio	Lower	Upper
107	100		
109	92.9	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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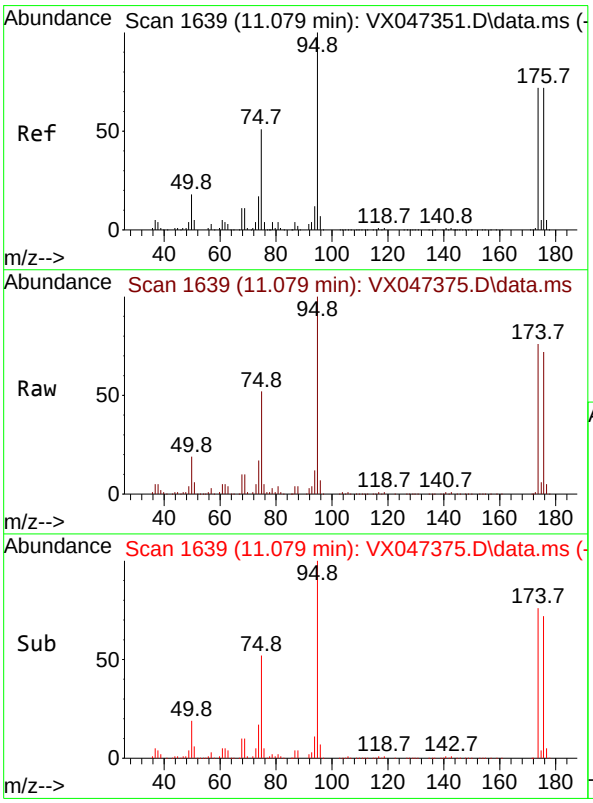
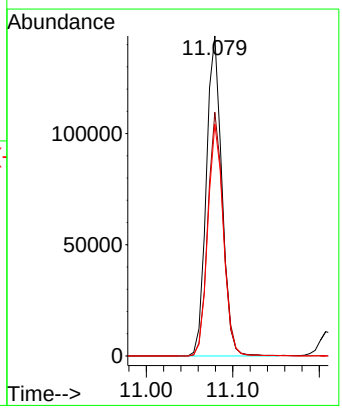
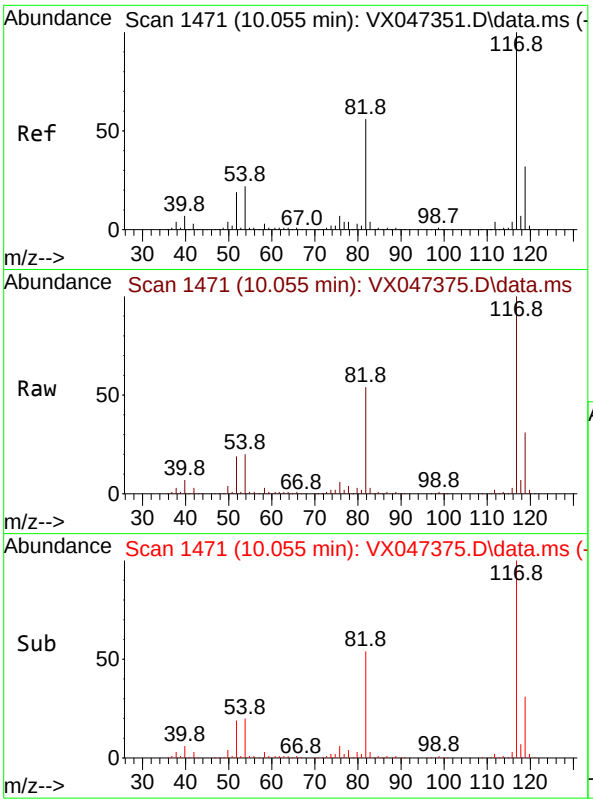


#62
4-Bromofluorobenzene
Concen: 52.621 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 95 Resp: 179282

Ion	Ratio	Lower	Upper
95	100		
174	76.2	0.0	148.0
176	72.5	0.0	145.4

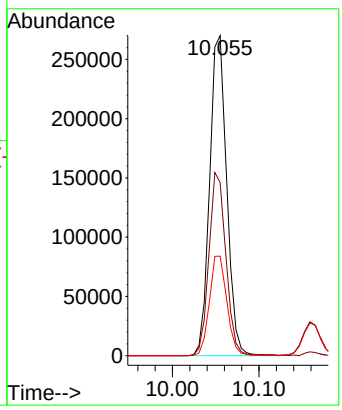




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:117 Resp: 370209

Ion	Ratio	Lower	Upper
117	100		
82	54.1	45.0	67.4
119	31.1	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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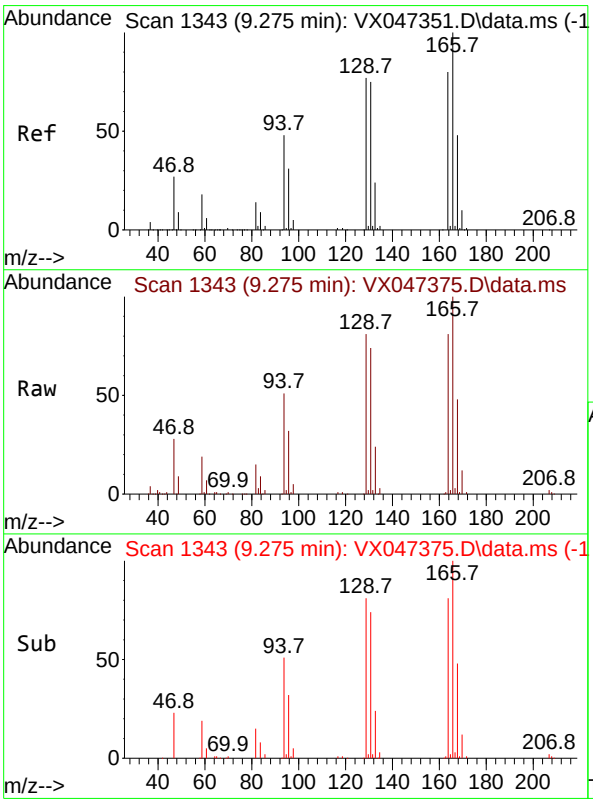
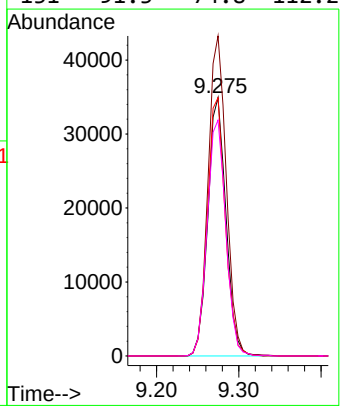
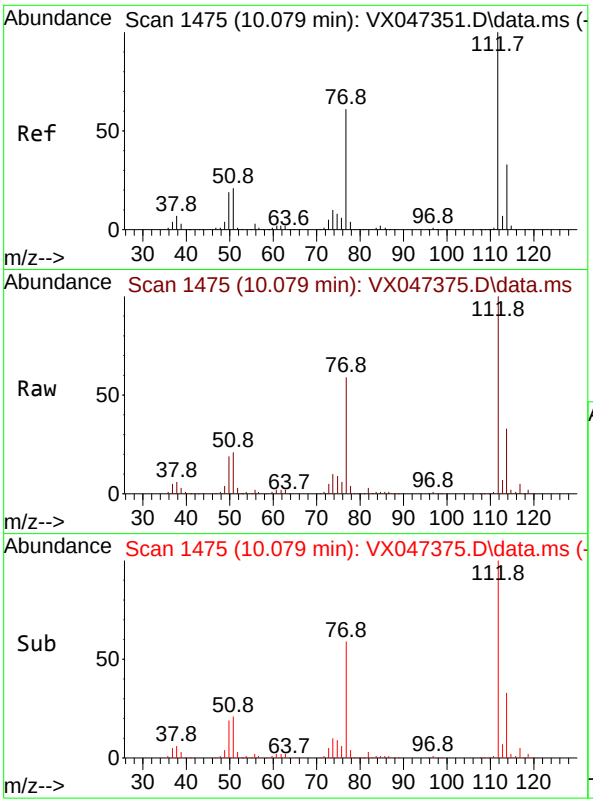


#64
Tetrachloroethene
Concen: 19.955 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:164 Resp: 53436

Ion	Ratio	Lower	Upper
164	100		
166	123.9	100.3	150.5
129	100.0	77.7	116.5
131	91.3	74.8	112.2

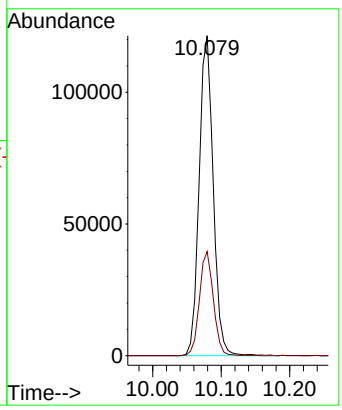




#65
Chlorobenzene
Concen: 19.748 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:112 Resp: 173739

Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.4	39.6



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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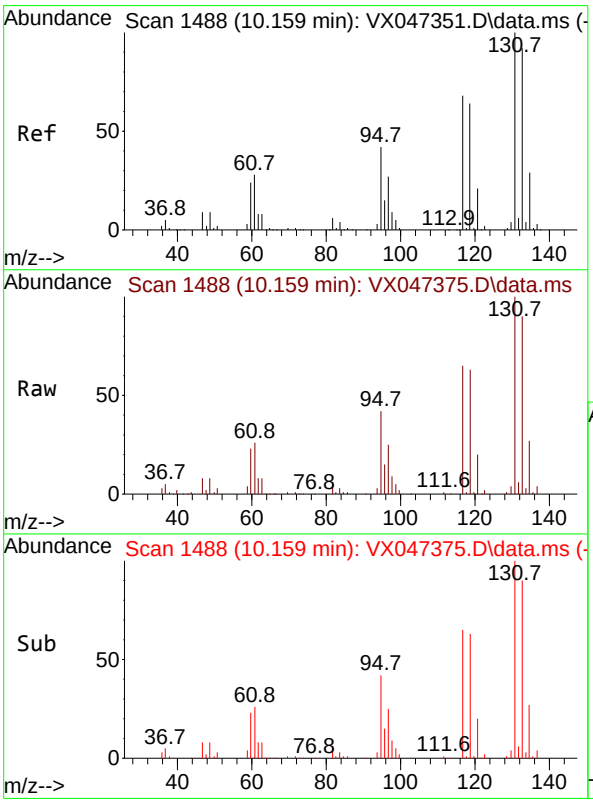
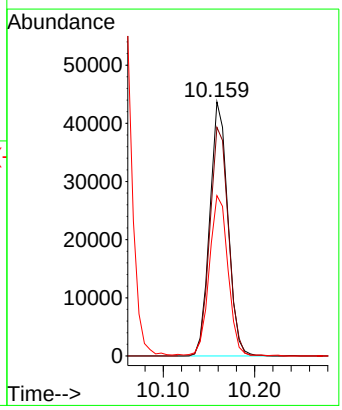
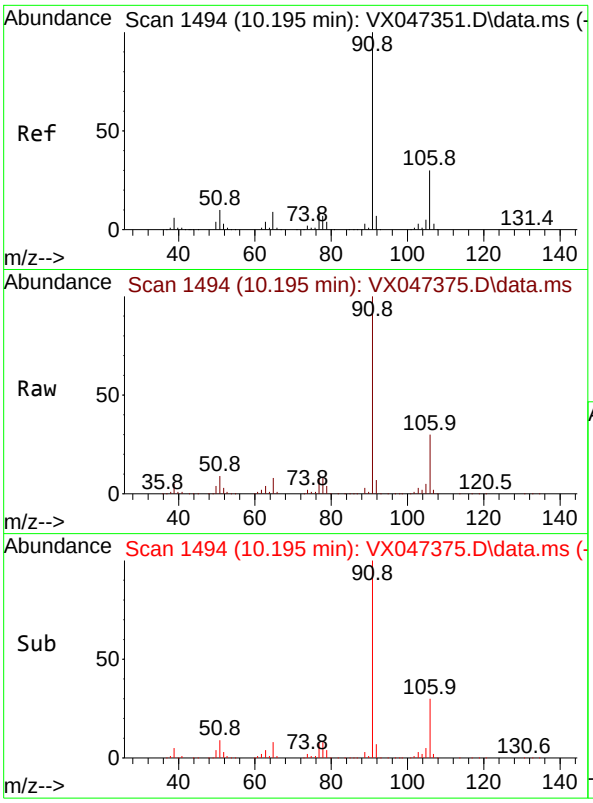


#66
1,1,1,2-Tetrachloroethane
Concen: 20.222 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:131 Resp: 60140

Ion	Ratio	Lower	Upper
131	100		
133	92.5	47.6	142.9
119	65.4	32.3	96.8

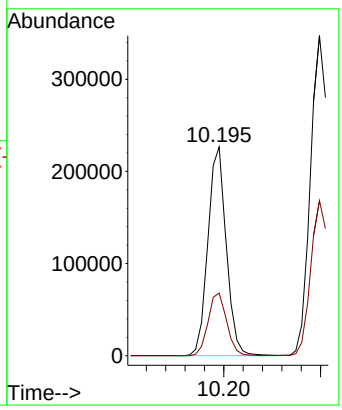




#67
Ethyl Benzene
Concen: 19.748 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 91 Resp: 29901

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.4	36.6



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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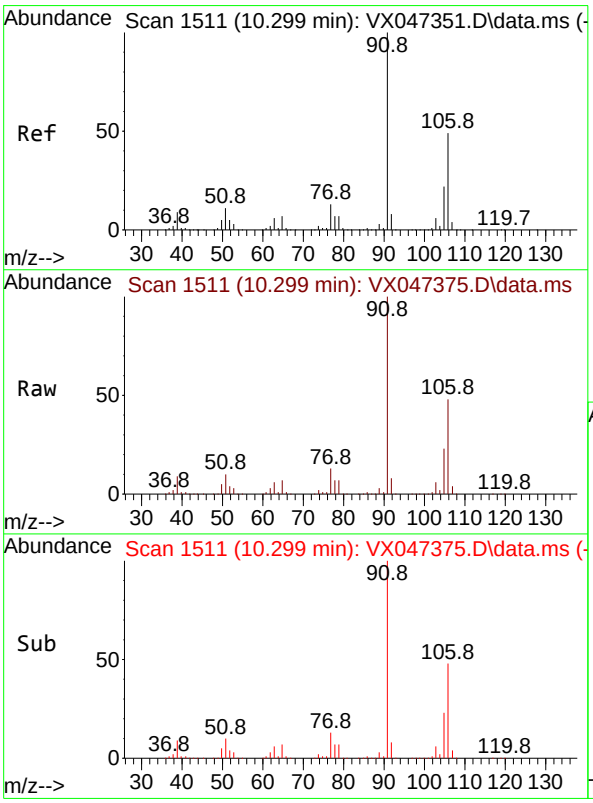
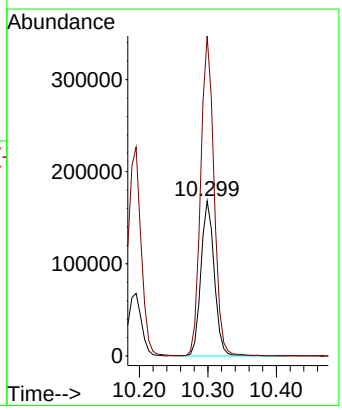
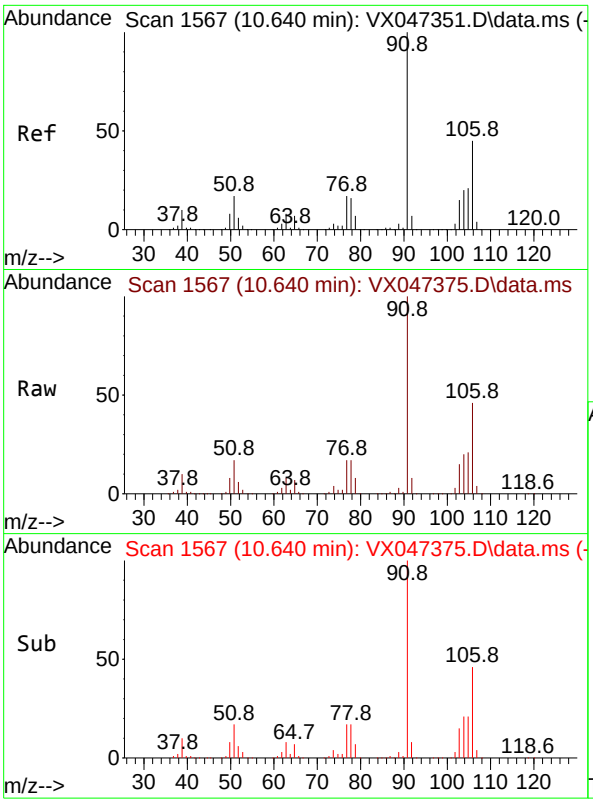


#68
m/p-Xylenes
Concen: 40.486 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:106 Resp: 228585

Ion	Ratio	Lower	Upper
106	100		
91	205.9	164.7	247.1

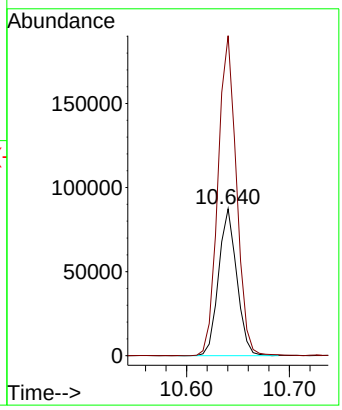




#69
o-Xylene
Concen: 19.750 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:106 Resp: 10730

Ion	Ratio	Lower	Upper
106	100		
91	221.7	110.6	331.8



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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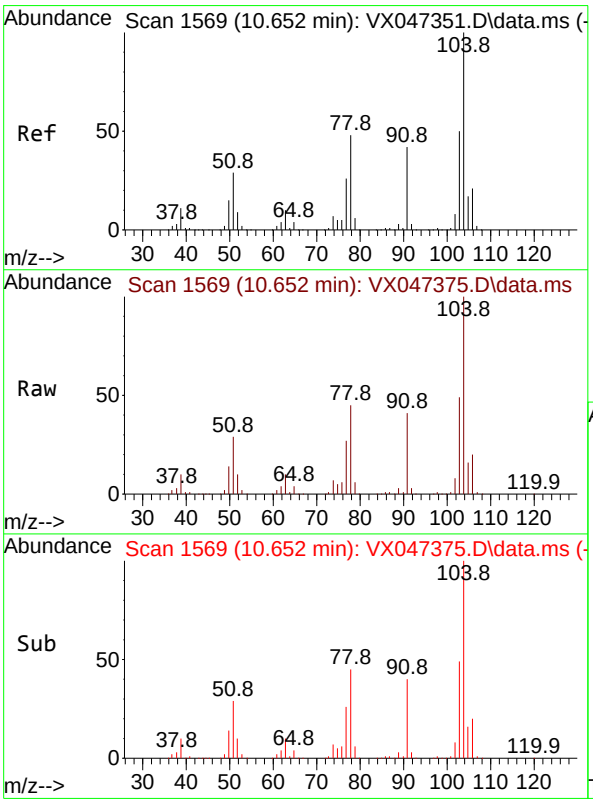
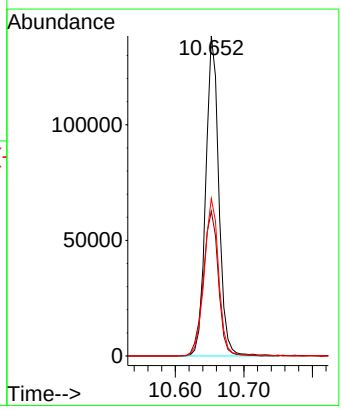
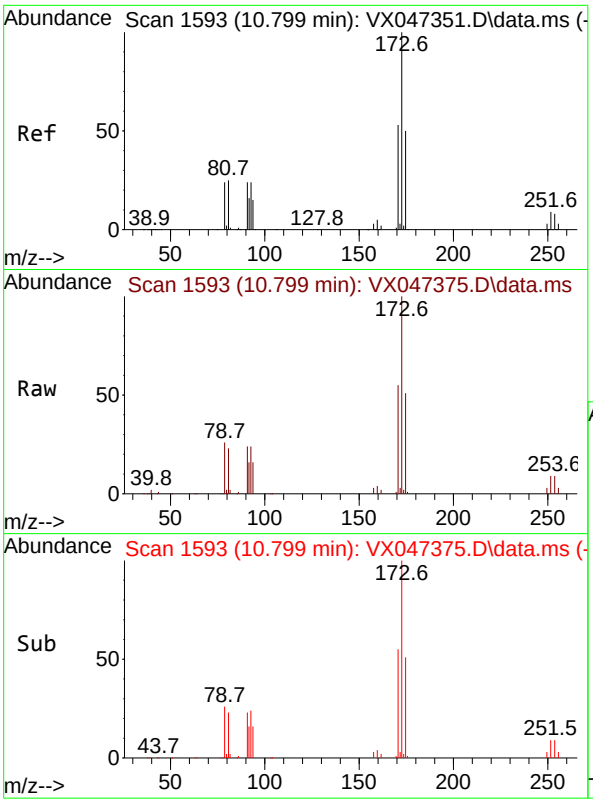


#70
Styrene
Concen: 20.081 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:104 Resp: 184361

Ion	Ratio	Lower	Upper
104	100		
78	52.2	41.8	62.8
103	54.5	43.6	65.4

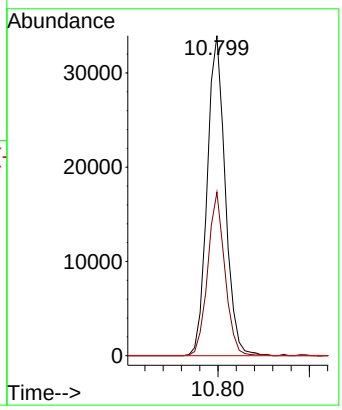




#71
Bromoform
Concen: 20.703 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:173 Resp: 4625

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.4	73.4
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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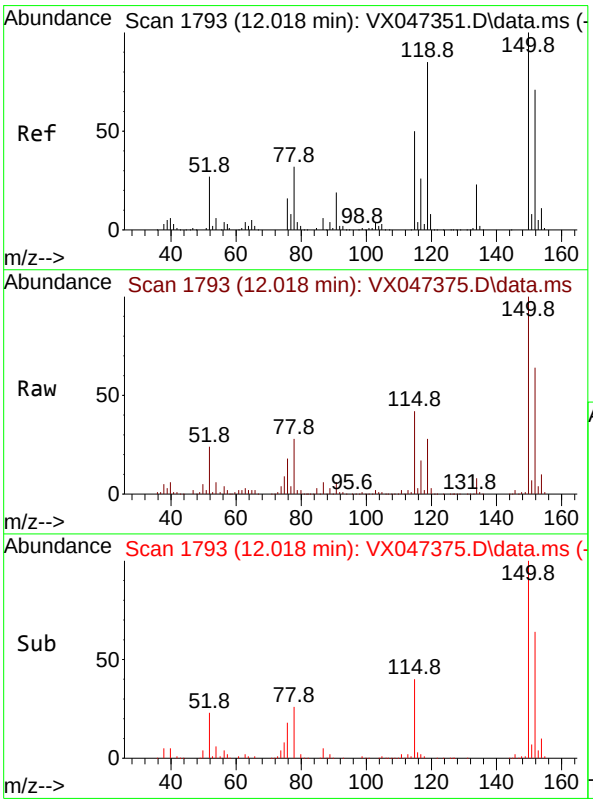
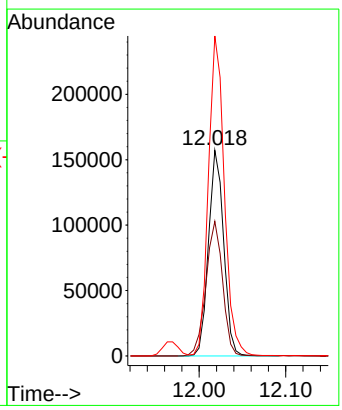
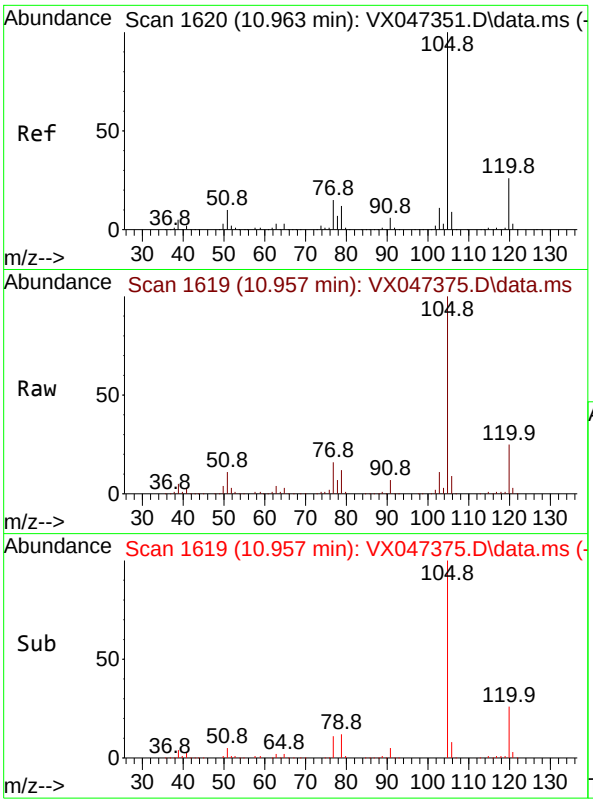


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:152 Resp: 191427

Ion	Ratio	Lower	Upper
152	100		
115	71.8	44.6	133.8
150	163.3	0.0	349.8

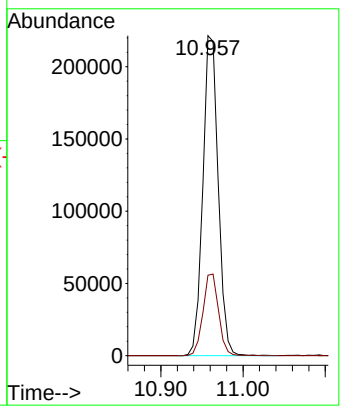




#73
Isopropylbenzene
Concen: 19.197 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:105 Resp: 28757

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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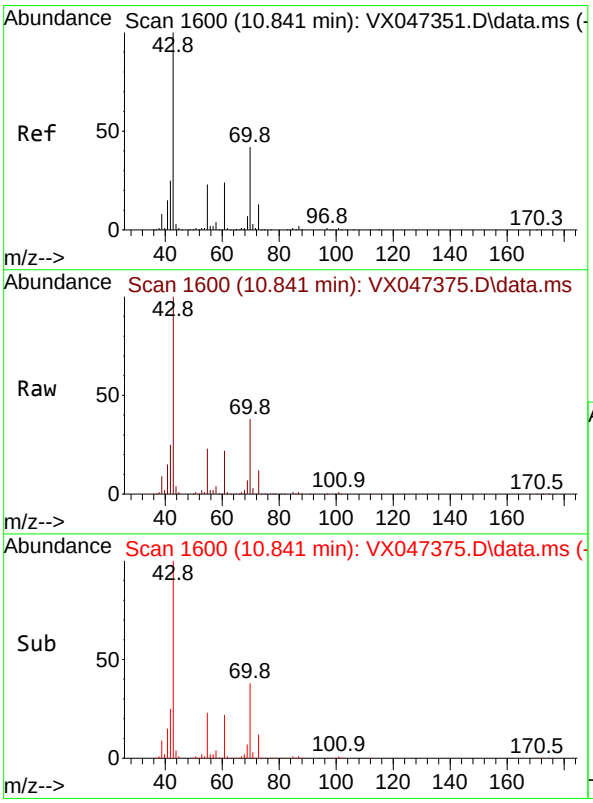
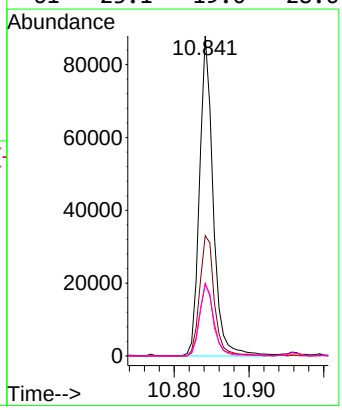
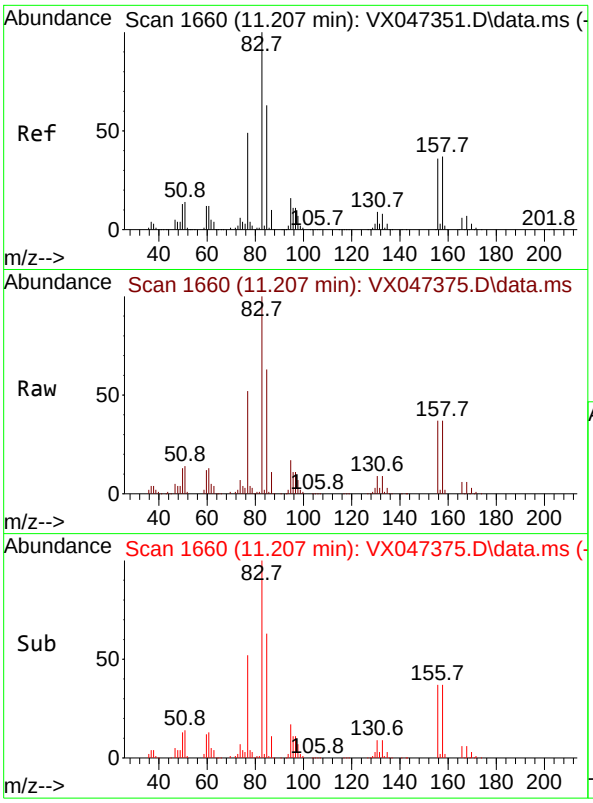


#74
N-amyl acetate
Concen: 19.604 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 43 Resp: 111520

Ion	Ratio	Lower	Upper
43	100		
70	40.6	33.1	49.7
55	24.0	19.0	28.6
61	23.1	19.0	28.6

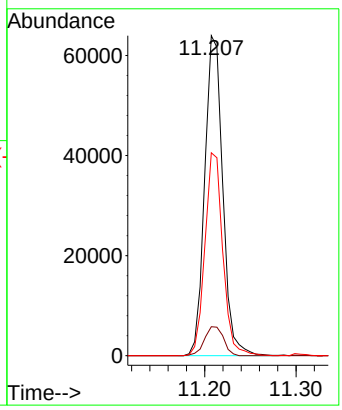




#75
1,1,2,2-Tetrachloroethane
Concen: 19.874 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 83 Resp: 8741

Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.0	15.0
85	63.0	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Manual Integrations
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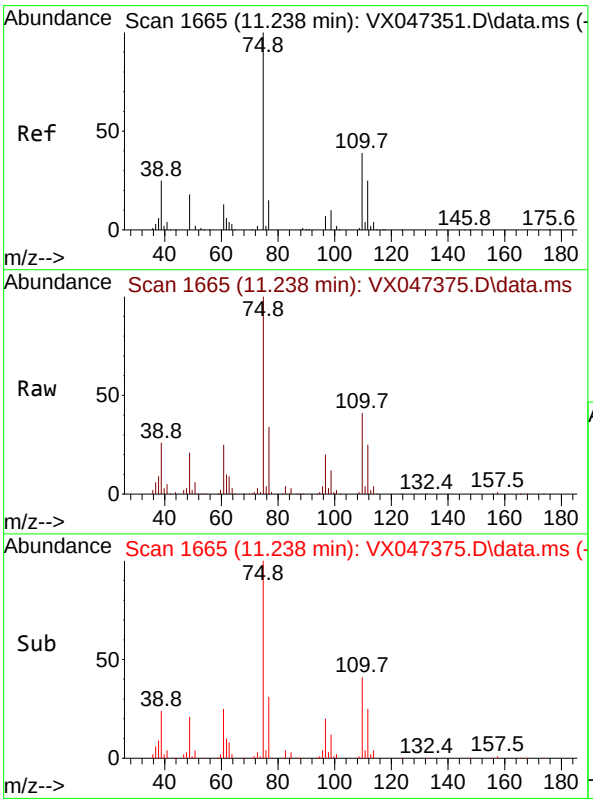
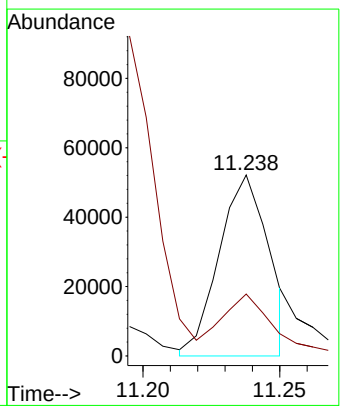
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025

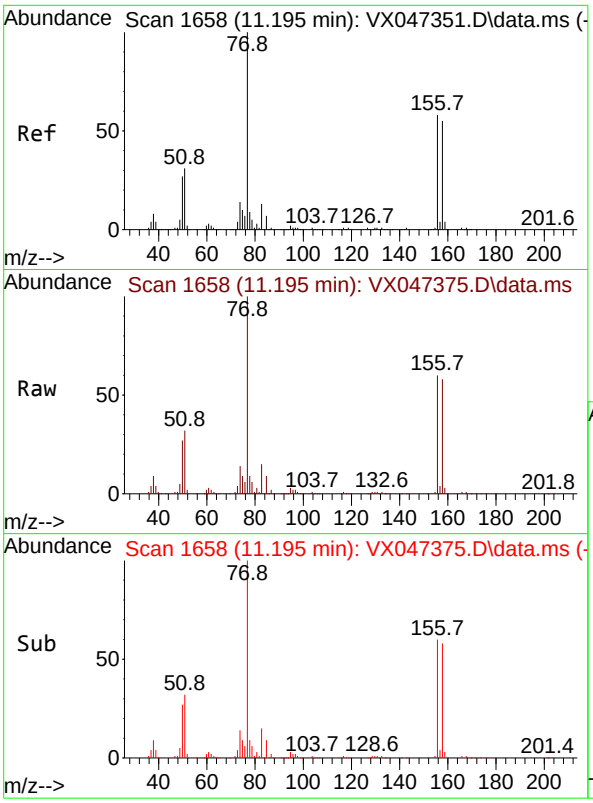


#76
1,2,3-Trichloropropane
Concen: 18.764 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 75 Resp: 65880

Ion	Ratio	Lower	Upper
75	100		
77	37.1	19.4	58.2

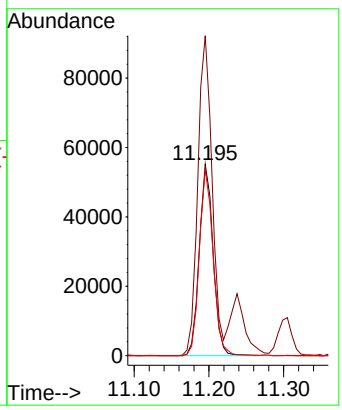




#77
Bromobenzene
Concen: 19.430 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:156 Resp: 7107

Ion	Ratio	Lower	Upper
156	100		
77	171.7	86.3	258.9
158	96.8	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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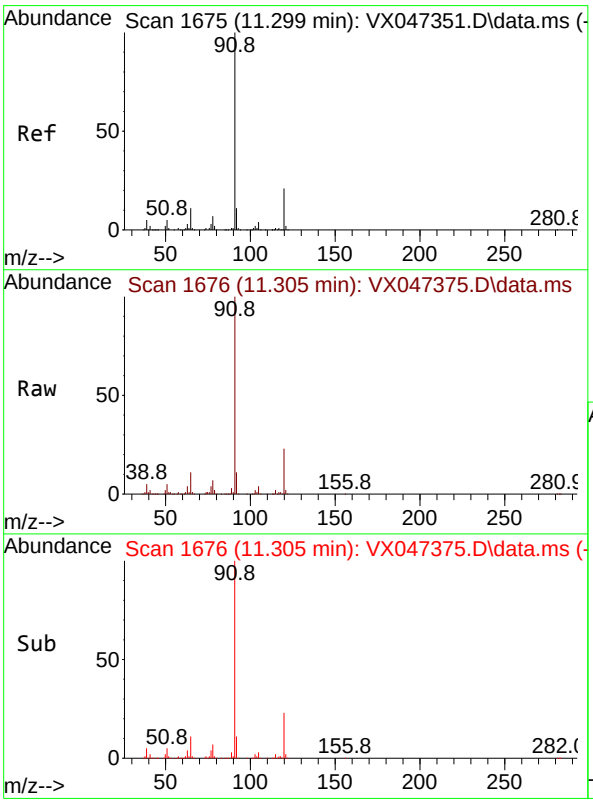
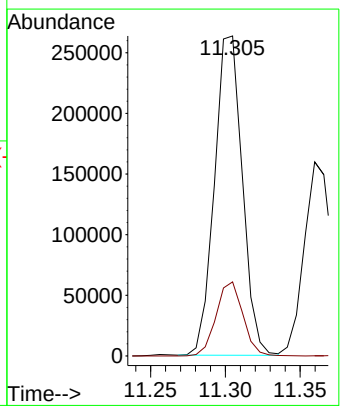
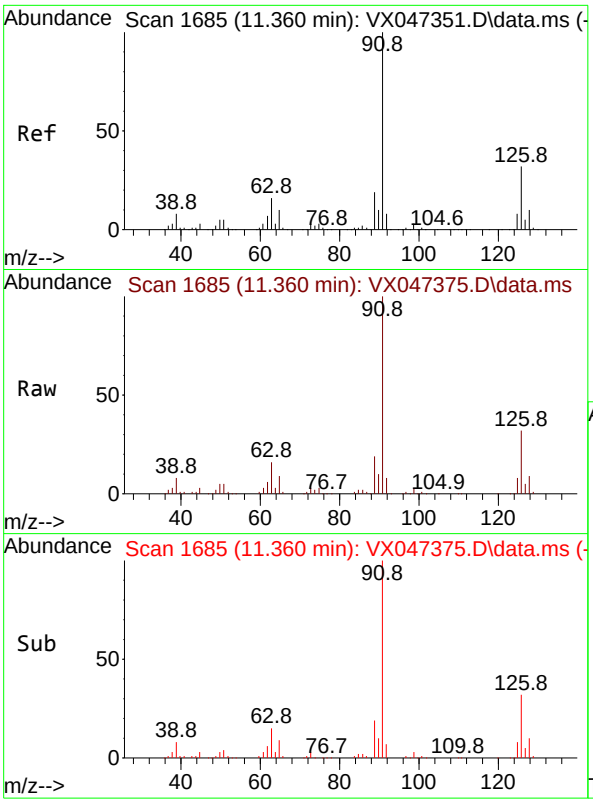


#78
n-propylbenzene
Concen: 19.079 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 91 Resp: 341340

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.0	33.0

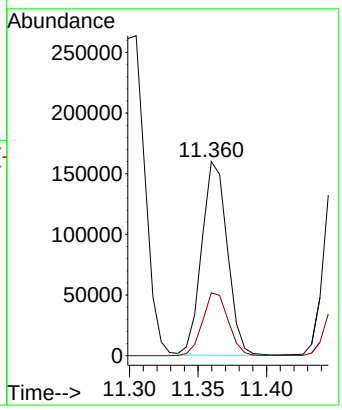




#79
2-Chlorotoluene
Concen: 19.188 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 91 Resp: 20751

Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.7	50.1



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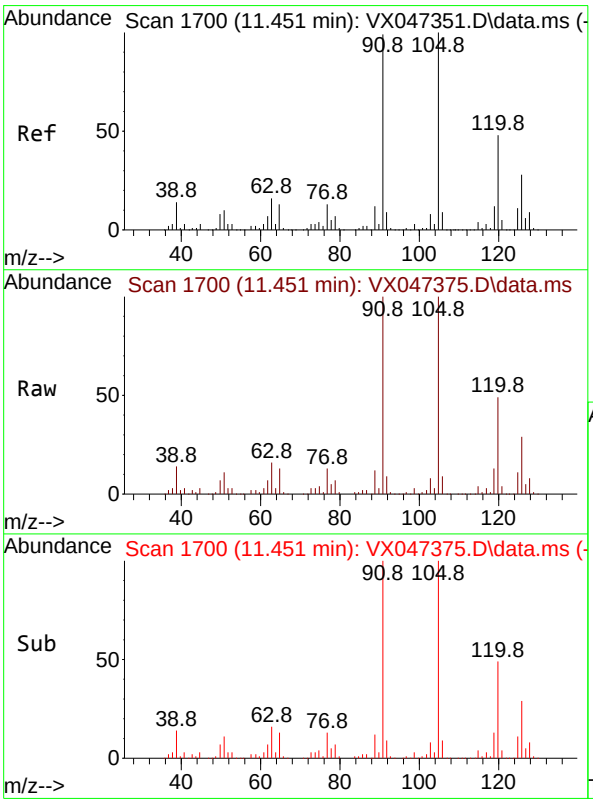
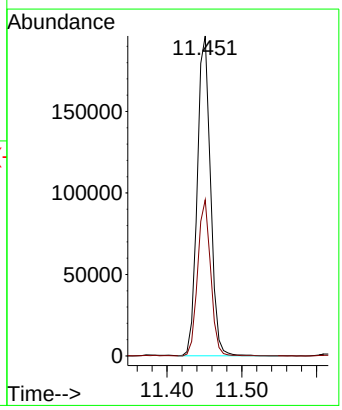
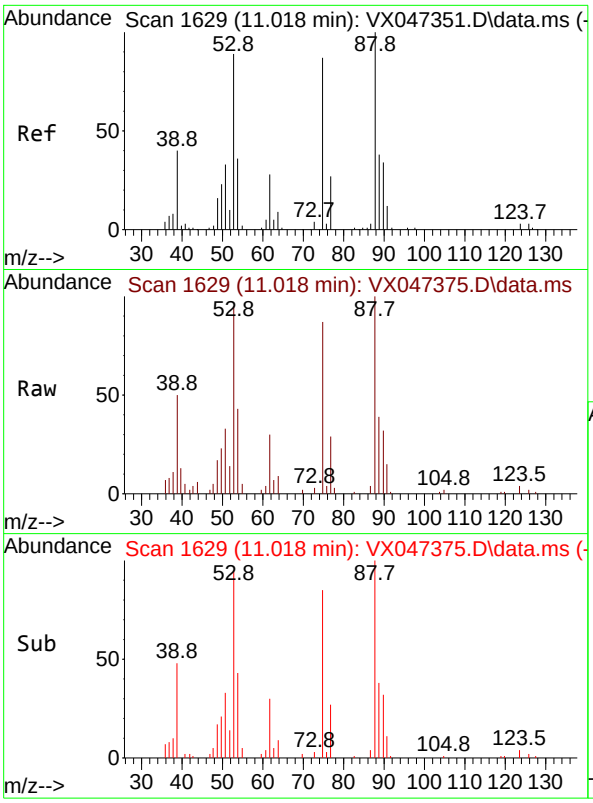


#80
1,3,5-Trimethylbenzene
Concen: 19.557 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:105 Resp: 241050

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.9	71.7

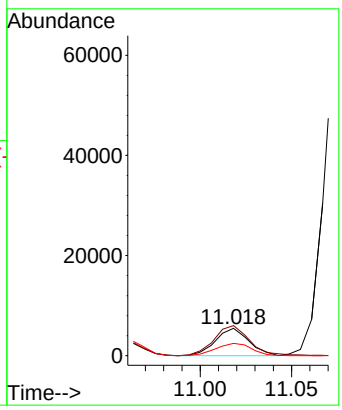




#81
trans-1,4-Dichloro-2-butene
Concen: 15.093 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 75 Resp: 692

Ion	Ratio	Lower	Upper
75	100		
53	117.8	85.2	127.8
89	48.6	36.7	55.1



Instrument :
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ClientSampleId :
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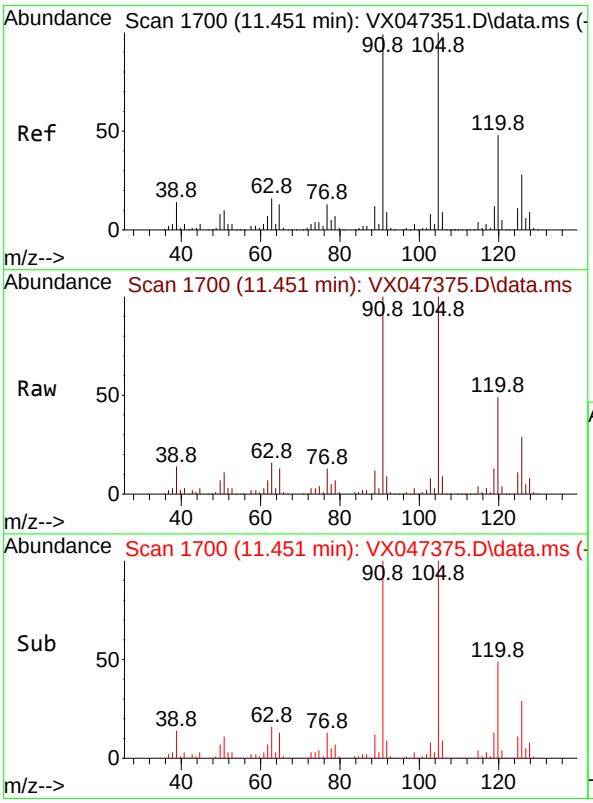
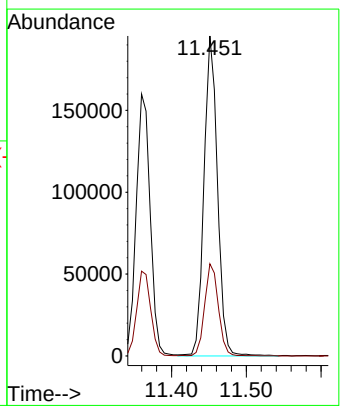
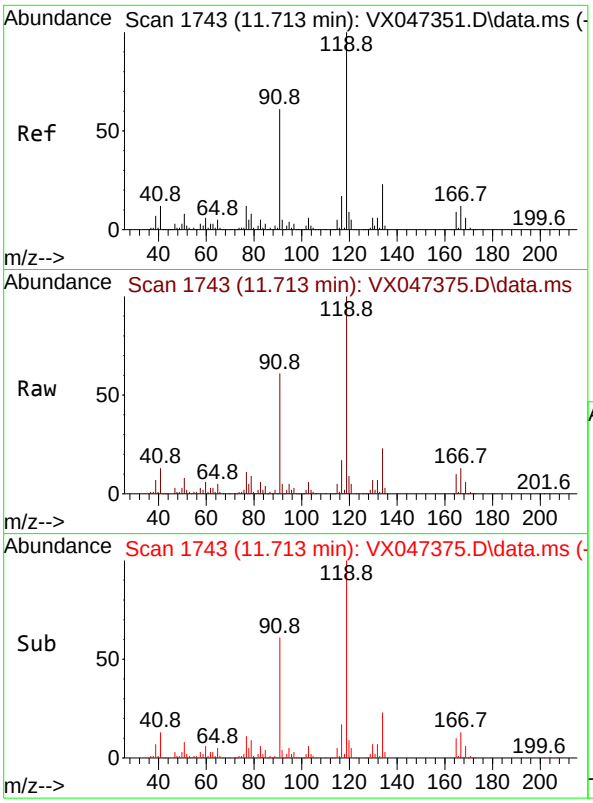


#82
4-Chlorotoluene
Concen: 19.215 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 91 Resp: 244966

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.4	43.0

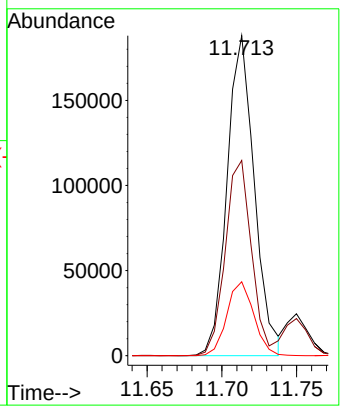




#83
tert-Butylbenzene
Concen: 19.415 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:119 Resp: 23874

Ion	Ratio	Lower	Upper
119	100		
91	58.4	29.1	87.4
134	22.8	11.3	33.9



Instrument :
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ClientSampleId :
VX0818WBSD01

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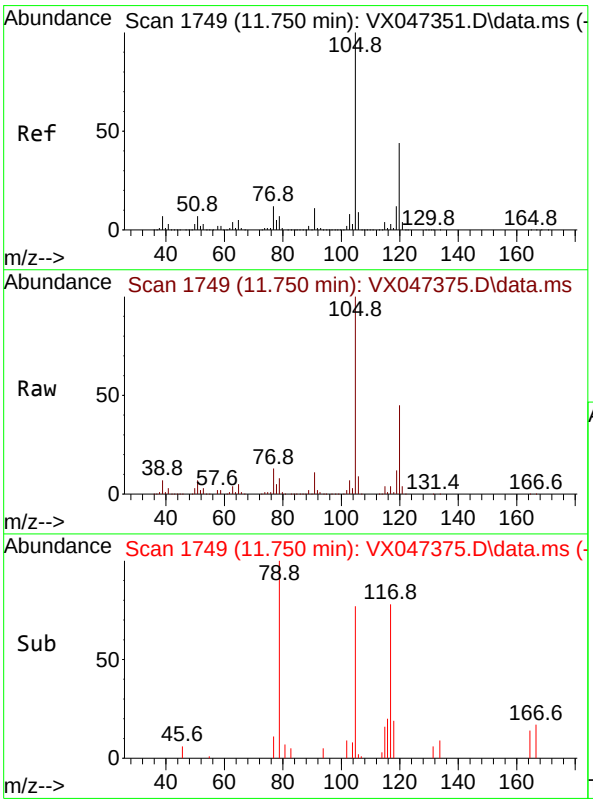
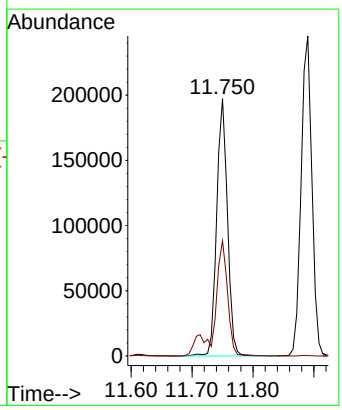
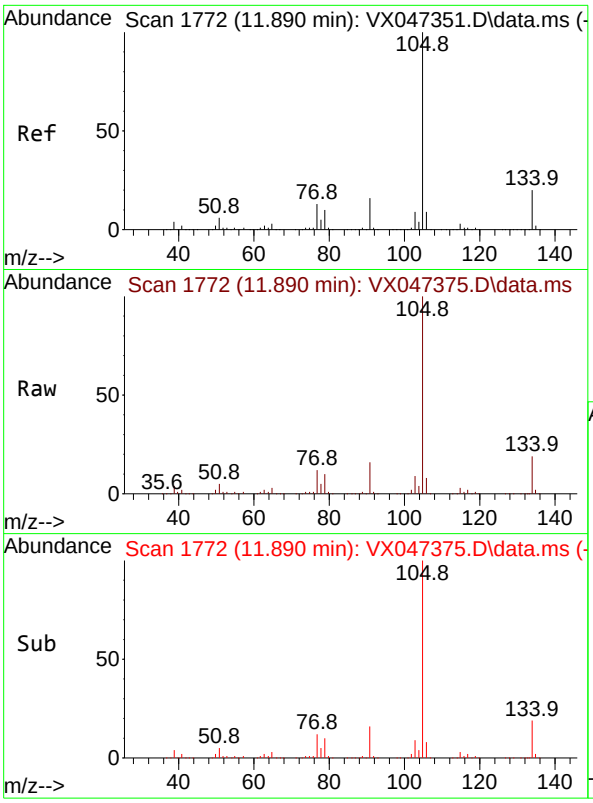


#84
1,2,4-Trimethylbenzene
Concen: 19.618 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:105 Resp: 241810

Ion	Ratio	Lower	Upper
105	100		
120	43.0	21.9	65.7

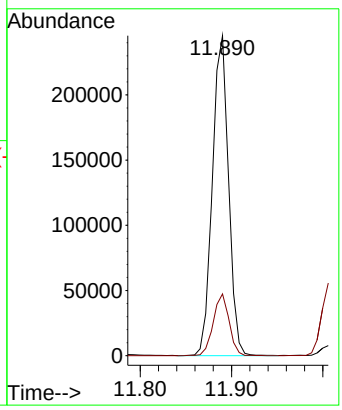




#85
sec-Butylbenzene
Concen: 19.769 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:105 Resp: 30130

Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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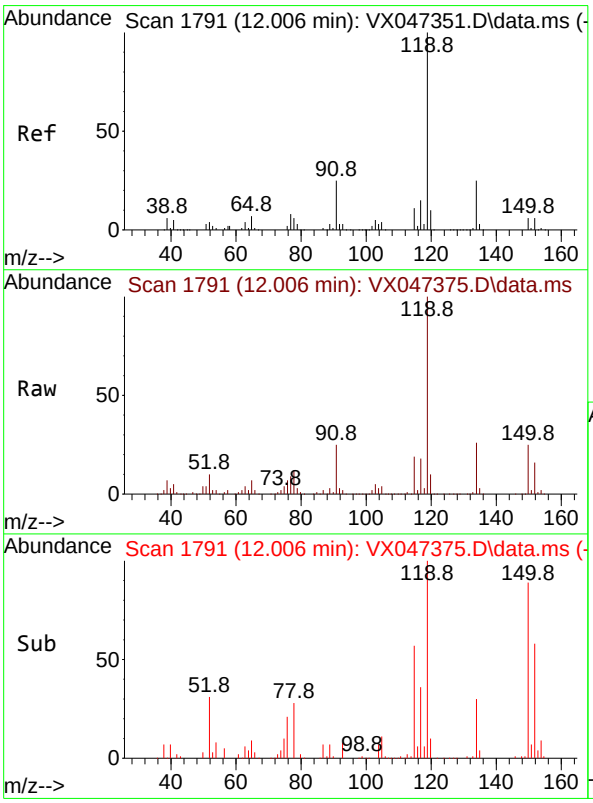
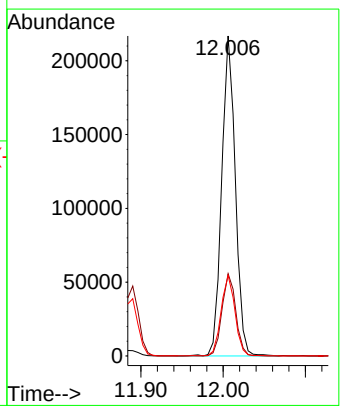
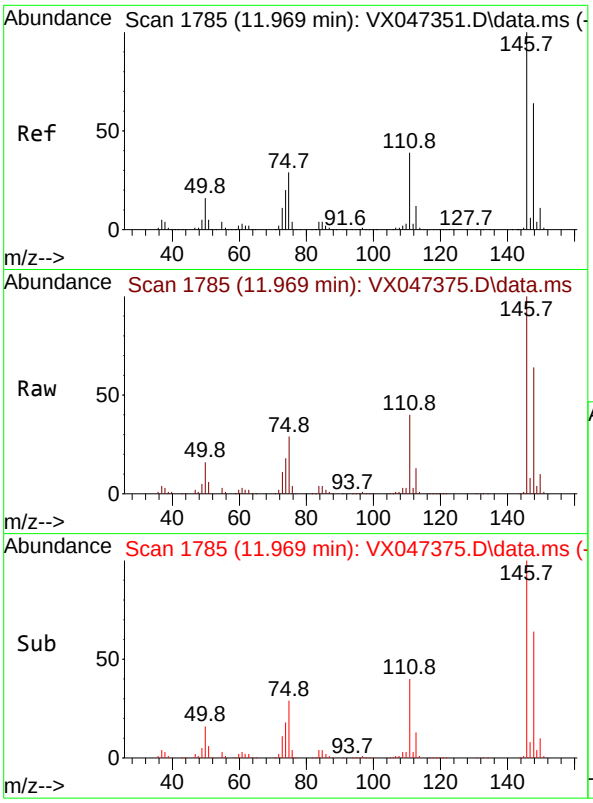


#86
p-Isopropyltoluene
Concen: 19.353 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:119 Resp: 249604

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	25.7	12.4	37.4

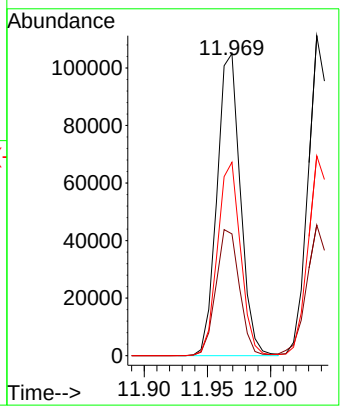




#87
1,3-Dichlorobenzene
Concen: 19.290 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:146 Resp: 13480

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.6	61.8
148	63.3	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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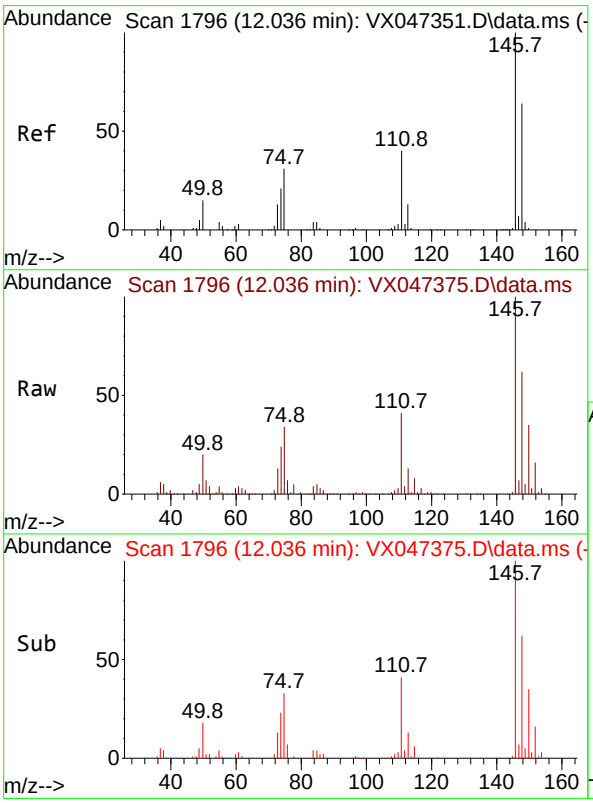
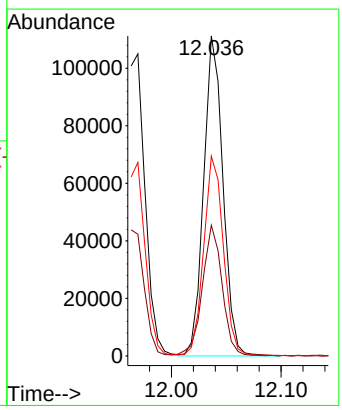
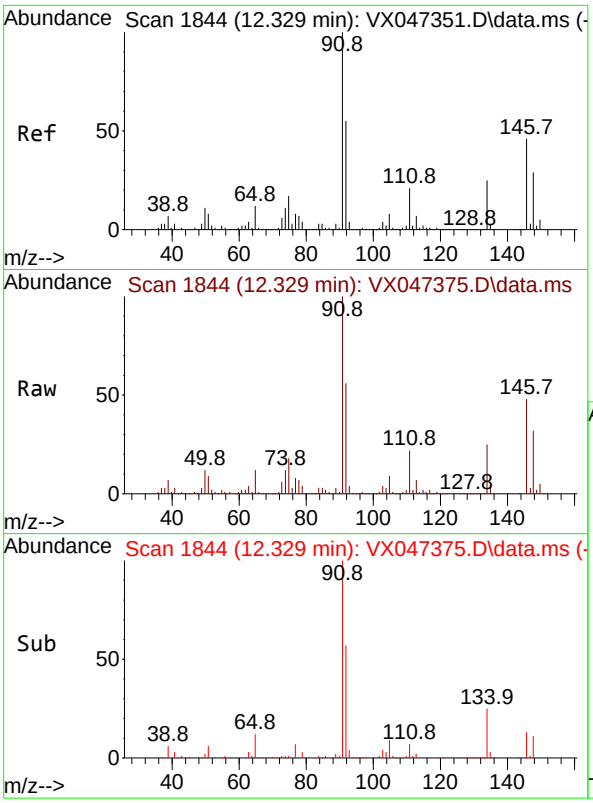


#88
1,4-Dichlorobenzene
Concen: 18.977 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:146 Resp: 136399

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.4	61.2
148	63.7	31.7	95.1





#89
n-Butylbenzene
Concen: 19.042 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 91 Resp: 22842

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.2	81.5
134	25.6	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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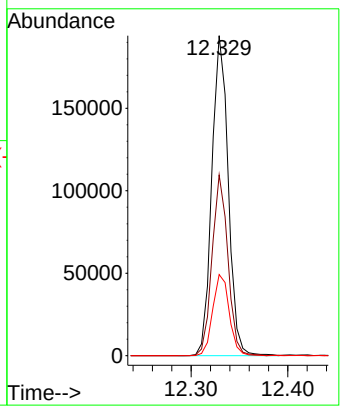
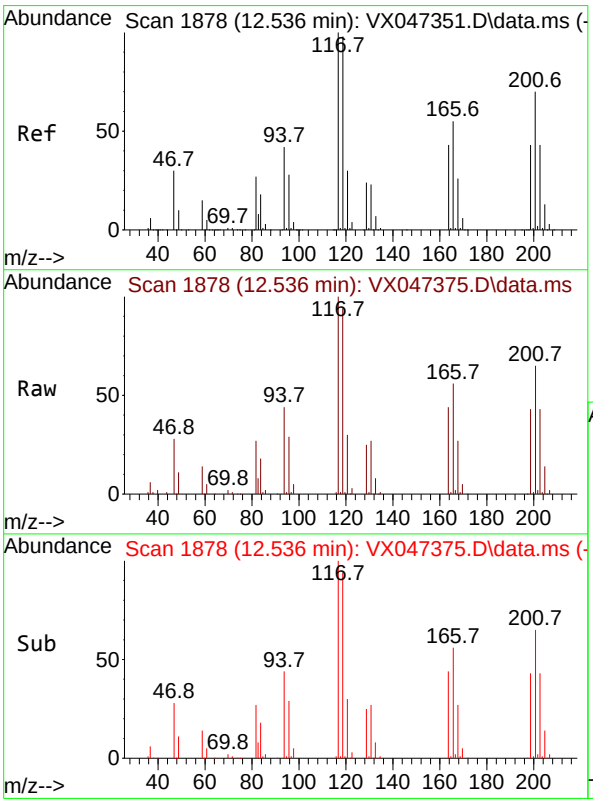
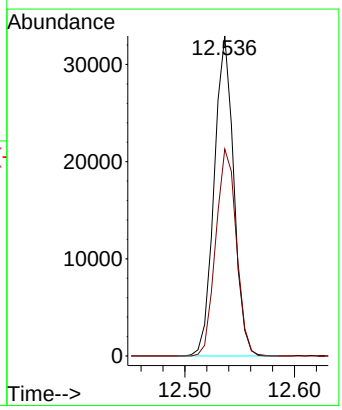


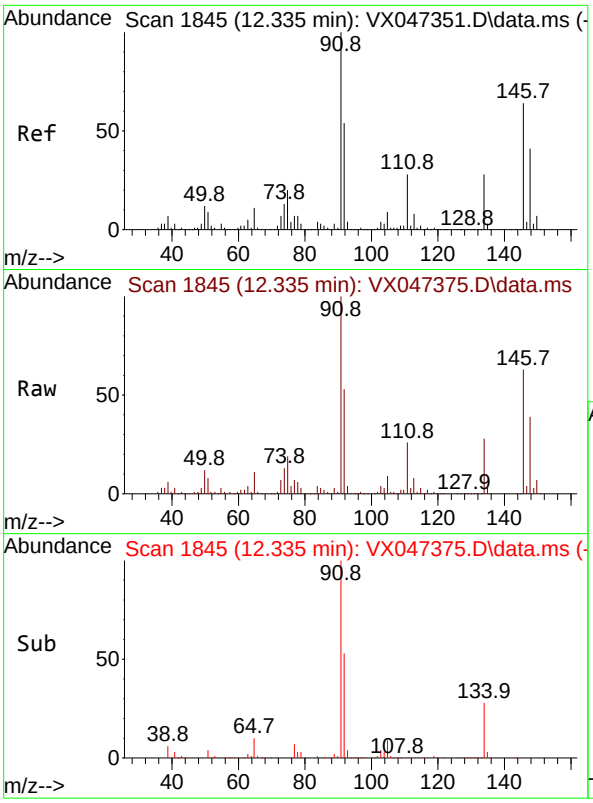


#90
Hexachloroethane
Concen: 18.060 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:117 Resp: 40863

Ion	Ratio	Lower	Upper
117	100		
201	68.1	35.1	105.3

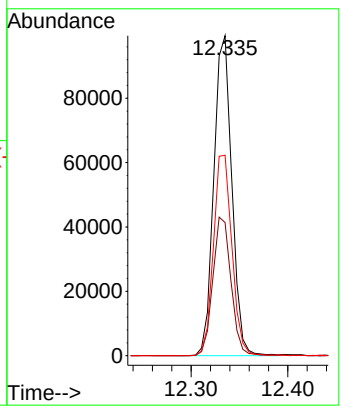




#91
1,2-Dichlorobenzene
Concen: 19.386 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:146 Resp: 12858

Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.1	66.1
148	64.2	31.9	95.5



Instrument :
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ClientSampleId :
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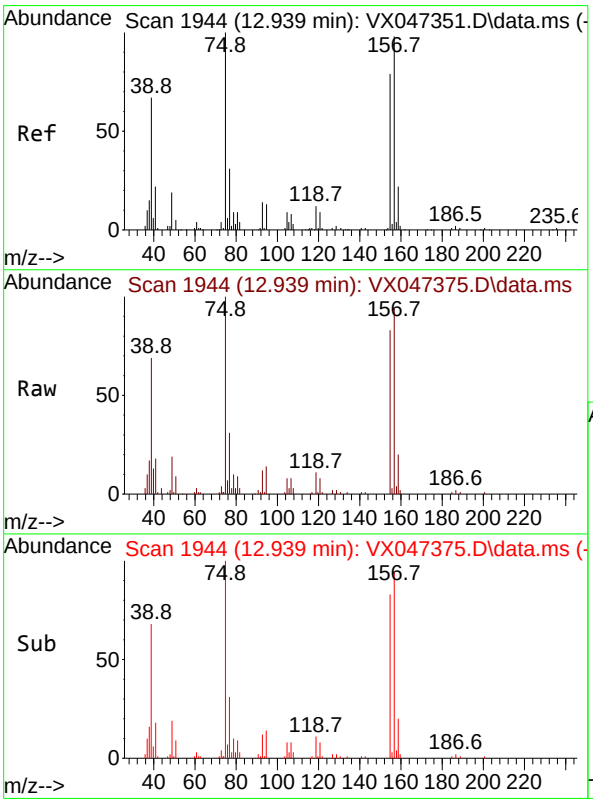
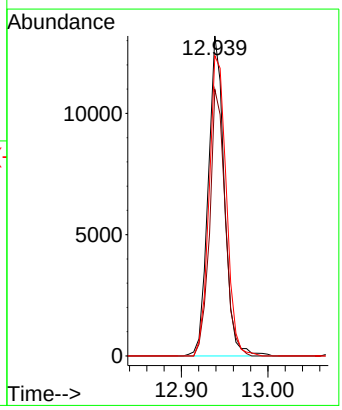
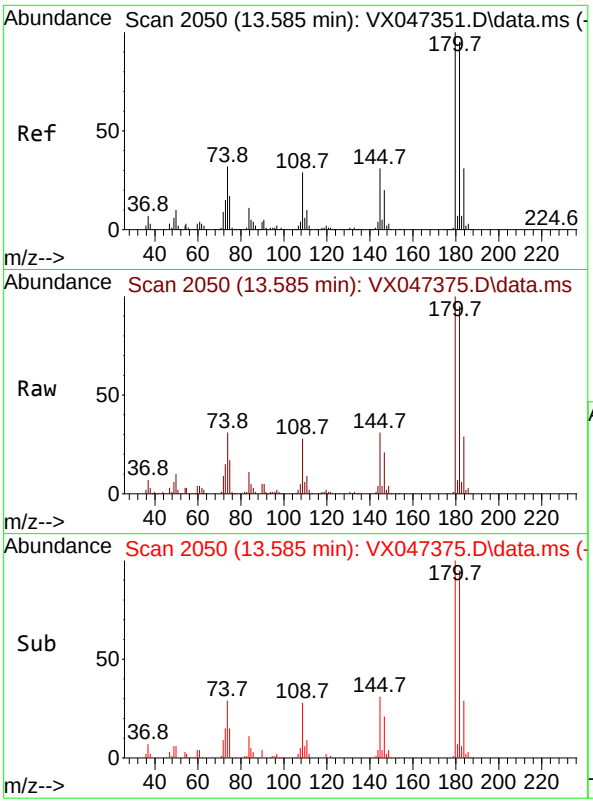


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.017 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 75 Resp: 17026

Ion	Ratio	Lower	Upper
75	100		
155	80.4	41.3	123.7
157	100.2	51.5	154.5

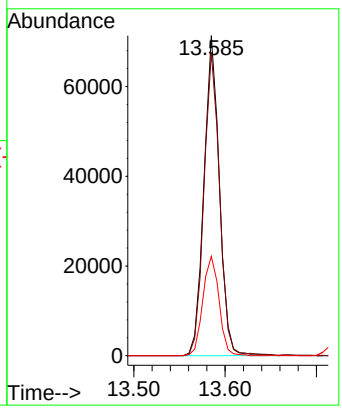




#93
1,2,4-Trichlorobenzene
Concen: 18.790 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:180 Resp: 8355

Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.1	144.4
145	32.5	16.2	48.5



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

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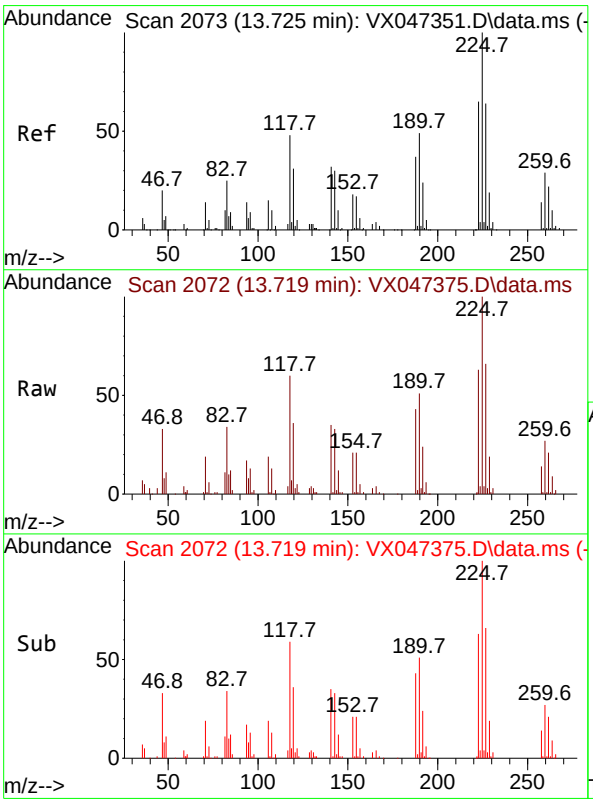
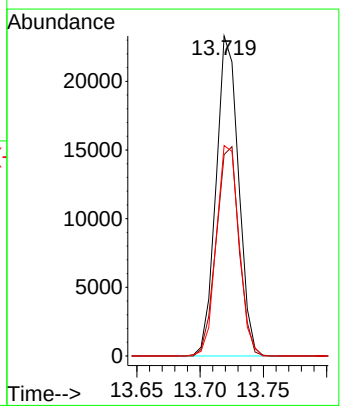
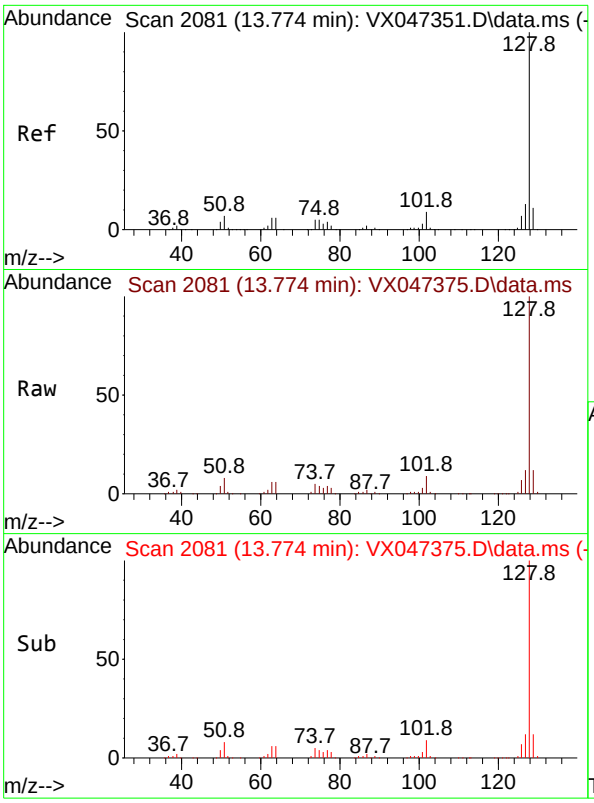


#94
Hexachlorobutadiene
Concen: 18.107 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:225 Resp: 28659

Ion	Ratio	Lower	Upper
225	100		
223	66.6	32.2	96.6
227	66.5	31.6	95.0

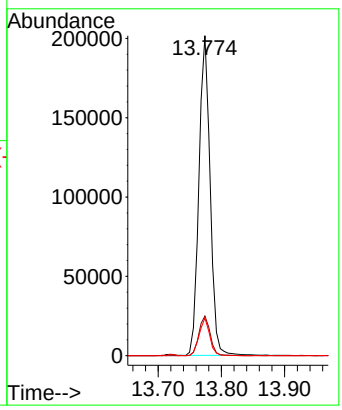




#95
Naphthalene
Concen: 19.549 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:128 Resp: 24841

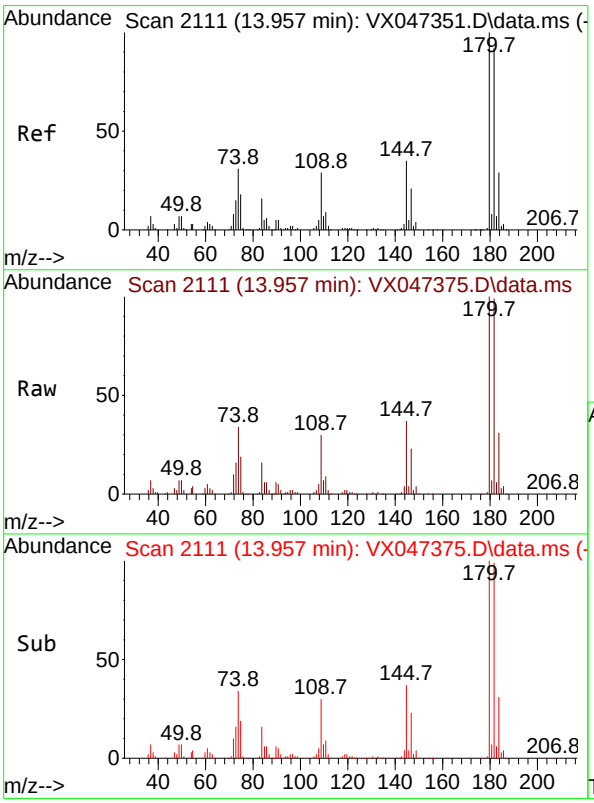
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.1	15.1
129	11.1	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Manual Integrations APPROVED

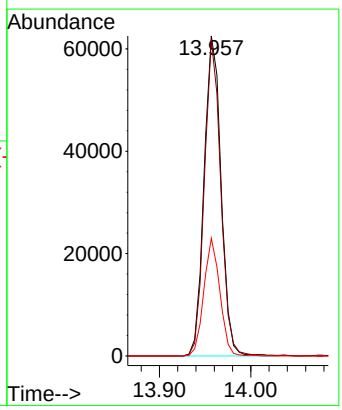
Reviewed By :John Carlone 08/19/2025
Supervised By :Mahesh Dadoda 08/20/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.176 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:180 Resp: 80375

Ion	Ratio	Lower	Upper
180	100		
182	95.5	48.0	144.2
145	34.7	17.4	52.2



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Manual Integration Report

Sequence:	VX072125	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX047055.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:05 AM	MMDadoda	7/22/2025 1:41:01 PM	Peak Integrated by Software
VSTDICC001	VX047055.D	1,4-Dichlorobenzene	JOHN	7/22/2025 8:50:05 AM	MMDadoda	7/22/2025 1:41:01 PM	Peak Integrated by Software
VSTDICC001	VX047055.D	1,4-Dioxane	JOHN	7/22/2025 8:50:05 AM	MMDadoda	7/22/2025 1:41:01 PM	Peak Integrated by Software
VSTDICC001	VX047055.D	Ethyl Acetate	JOHN	7/22/2025 8:50:05 AM	MMDadoda	7/22/2025 1:41:01 PM	Peak Integrated by Software
VSTDICC001	VX047055.D	Methyl methacrylate	JOHN	7/22/2025 8:50:05 AM	MMDadoda	7/22/2025 1:41:01 PM	Peak Integrated by Software
VSTDICC001	VX047055.D	N-amyl acetate	JOHN	7/22/2025 8:50:05 AM	MMDadoda	7/22/2025 1:41:01 PM	Peak Integrated by Software
VSTDICC005	VX047056.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:10 AM	MMDadoda	7/22/2025 1:41:02 PM	Peak Integrated by Software
VSTDICC005	VX047056.D	Ethyl Acetate	JOHN	7/22/2025 8:50:10 AM	MMDadoda	7/22/2025 1:41:02 PM	Peak Integrated by Software
VSTDICC020	VX047057.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:18 AM	MMDadoda	7/22/2025 1:41:03 PM	Peak Integrated by Software
VSTDICCC050	VX047058.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:23 AM	MMDadoda	7/22/2025 1:41:05 PM	Peak Integrated by Software
VSTDICC100	VX047059.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:28 AM	MMDadoda	7/22/2025 1:41:08 PM	Peak Integrated by Software
VSTDICC150	VX047060.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:32 AM	MMDadoda	7/22/2025 1:41:09 PM	Peak Integrated by Software
VSTDICV050	VX047062.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:40 AM	MMDadoda	7/22/2025 1:41:11 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX072125	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VX047062.D	1,4-Dioxane	JOHN	7/22/2025 8:50:40 AM	MMDadoda	7/22/2025 1:41:11 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vx081325	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047309.D	1,2,3-Trichloropropane	JOHN	8/14/2025 8:47:55 AM	MMDadoda	8/18/2025 8:55:27 AM	Peak Integrated by Software
VX0813WBS01	VX047312.D	1,2,3-Trichloropropane	JOHN	8/14/2025 8:48:00 AM	MMDadoda	8/18/2025 8:55:29 AM	Peak Integrated by Software
VSTDCCC050	VX047334.D	1,2,3-Trichloropropane	JOHN	8/14/2025 8:48:30 AM	MMDadoda	8/18/2025 8:55:32 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX081525	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VX047349.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:37:53 AM	MMDadoda	8/19/2025 1:41:03 AM	Peak Integrated by Software
VSTDICC005	VX047349.D	1,4-Dioxane	JOHN	8/18/2025 8:37:53 AM	MMDadoda	8/19/2025 1:41:03 AM	Peak Integrated by Software
VSTDICC005	VX047349.D	Tetrahydrofuran	JOHN	8/18/2025 8:37:53 AM	MMDadoda	8/19/2025 1:41:03 AM	Peak Integrated by Software
VSTDICC020	VX047350.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:37:58 AM	MMDadoda	8/19/2025 1:41:04 AM	Peak Integrated by Software
VSTDICC020	VX047350.D	1,4-Dioxane	JOHN	8/18/2025 8:37:58 AM	MMDadoda	8/19/2025 1:41:04 AM	Peak Integrated by Software
VSTDICCC050	VX047351.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:42:59 AM	MMDadoda	8/19/2025 1:41:07 AM	Peak Integrated by Software
VSTDICC100	VX047352.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:03 AM	MMDadoda	8/19/2025 1:41:08 AM	Peak Integrated by Software
VSTDICC150	VX047353.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:07 AM	MMDadoda	8/19/2025 1:41:10 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	1,4-Dichlorobenzene	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	1,4-Dioxane	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	Allyl chloride	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	Ethyl Acetate	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX081525	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX047356.D	Methacrylonitrile	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	Methyl methacrylate	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	Tetrahydrofuran	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICV050	VX047357.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:25 AM	MMDadoda	8/19/2025 1:41:26 AM	Peak Integrated by Software
VSTDICV050	VX047357.D	1,4-Dioxane	JOHN	8/18/2025 8:43:25 AM	MMDadoda	8/19/2025 1:41:26 AM	Peak Integrated by Software
VSTDCCC050	VX047369.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:44 AM	MMDadoda	8/19/2025 1:41:35 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX081825	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047371.D	1,2,3-Trichloropropane	JOHN	8/19/2025 8:32:41 AM	MMDadoda	8/20/2025 8:55:45 AM	Peak Integrated by Software
VX0818WBS01	VX047374.D	1,2,3-Trichloropropane	JOHN	8/19/2025 8:32:46 AM	MMDadoda	8/20/2025 8:55:47 AM	Peak Integrated by Software
VX0818WBSD01	VX047375.D	1,2,3-Trichloropropane	JOHN	8/19/2025 8:32:50 AM	MMDadoda	8/20/2025 8:56:06 AM	Peak Integrated by Software
VX0818WBSD01	VX047375.D	Acrolein	JOHN	8/19/2025 8:32:50 AM	MMDadoda	8/20/2025 8:56:06 AM	Peak Integrated by Software
VSTDCCC050	VX047398.D	1,2,3-Trichloropropane	JOHN	8/19/2025 8:34:00 AM	MMDadoda	8/20/2025 8:55:56 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX081925	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047400.D	1,2,3-Trichloropropane	JOHN	8/20/2025 8:36:13 AM	MMDadoda	8/20/2025 8:57:32 AM	Peak Integrated by Software
VX0819WBS01	VX047403.D	1,2,3-Trichloropropane	JOHN	8/20/2025 8:36:18 AM	MMDadoda	8/20/2025 8:57:35 AM	Peak Integrated by Software
VSTDCCC050	VX047425.D	1,2,3-Trichloropropane	JOHN	8/20/2025 8:36:41 AM	MMDadoda	8/20/2025 8:57:39 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX082025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047427.D	1,2,3-Trichloropropane	JOHN	8/21/2025 8:44:58 AM	MMDadoda	8/22/2025 1:13:01 AM	Peak Integrated by Software
VX0820WBS01	VX047430.D	1,2,3-Trichloropropane	JOHN	8/21/2025 8:45:03 AM	MMDadoda	8/22/2025 1:13:04 AM	Peak Integrated by Software
VSTDCCC050	VX047453.D	1,2,3-Trichloropropane	JOHN	8/21/2025 8:45:42 AM	MMDadoda	8/22/2025 1:13:19 AM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX072125

Review By	John Carlone	Review On	7/22/2025 8:51:02 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/22/2025 1:41:20 PM		
SubDirectory	VX072125	HP Acquire Method		HP Processing Method	82X072125W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134843
Initial Calibration Stds	VP134844,VP134845,VP134846,VP134847,VP134848,VP134849
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP134850
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047054.D	21 Jul 2025 08:53	JC/MD	Ok
2	VSTDICC001	VX047055.D	21 Jul 2025 09:47	JC/MD	Ok,M
3	VSTDICC005	VX047056.D	21 Jul 2025 10:08	JC/MD	Ok,M
4	VSTDICC020	VX047057.D	21 Jul 2025 10:29	JC/MD	Ok,M
5	VSTDICCC050	VX047058.D	21 Jul 2025 10:50	JC/MD	Ok,M
6	VSTDICC100	VX047059.D	21 Jul 2025 11:11	JC/MD	Ok,M
7	VSTDICC150	VX047060.D	21 Jul 2025 11:32	JC/MD	Ok,M
8	IBLK	VX047061.D	21 Jul 2025 11:52	JC/MD	Ok
9	VSTDICV050	VX047062.D	21 Jul 2025 13:17	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081325

Review By	John Carlone	Review On	8/14/2025 8:55:29 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:55:41 AM		
SubDirectory	VX081325	HP Acquire Method		HP Processing Method	82X072125W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135105
Initial Calibration Stds	
CCC	VP135106,VP135107
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047308.D	13 Aug 2025 08:30	JC/MD	Ok
2	VSTDCCC050	VX047309.D	13 Aug 2025 09:44	JC/MD	Ok,M
3	VX0813MBL01	VX047310.D	13 Aug 2025 10:12	JC/MD	Ok
4	VX0813WBL01	VX047311.D	13 Aug 2025 11:02	JC/MD	Ok
5	VX0813WBS01	VX047312.D	13 Aug 2025 11:24	JC/MD	Ok,M
6	VX0813WBSD01	VX047313.D	13 Aug 2025 11:52	JC/MD	Ok,M
7	Q2814-12RE	VX047314.D	13 Aug 2025 12:13	JC/MD	Confirms
8	Q2814-16	VX047315.D	13 Aug 2025 12:35	JC/MD	Ok
9	Q2814-21	VX047316.D	13 Aug 2025 12:57	JC/MD	ReRun
10	Q2814-06RE	VX047317.D	13 Aug 2025 13:18	JC/MD	Confirms
11	Q2814-07RE	VX047318.D	13 Aug 2025 13:40	JC/MD	Confirms
12	Q2814-17	VX047319.D	13 Aug 2025 14:02	JC/MD	ReRun
13	Q2814-18	VX047320.D	13 Aug 2025 14:24	JC/MD	ReRun
14	Q2814-19	VX047321.D	13 Aug 2025 14:45	JC/MD	ReRun
15	Q2814-20	VX047322.D	13 Aug 2025 15:07	JC/MD	Ok
16	Q2837-01	VX047323.D	13 Aug 2025 15:29	JC/MD	ReRun
17	Q2815-01	VX047324.D	13 Aug 2025 15:51	JC/MD	ReRun
18	Q2815-02	VX047325.D	13 Aug 2025 16:13	JC/MD	ReRun
19	Q2815-03	VX047326.D	13 Aug 2025 16:35	JC/MD	ReRun
20	Q2815-04	VX047327.D	13 Aug 2025 16:57	JC/MD	ReRun
21	Q2815-05	VX047328.D	13 Aug 2025 17:19	JC/MD	ReRun

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081325

Review By	John Carlone	Review On	8/14/2025 8:55:29 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:55:41 AM		
SubDirectory	VX081325	HP Acquire Method		HP Processing Method	82X072125W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135105
Initial Calibration Stds	
CCC	VP135106,VP135107
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2815-06	VX047329.D	13 Aug 2025 17:40	JC/MD	ReRun
23	Q2815-07	VX047330.D	13 Aug 2025 18:02	JC/MD	Ok
24	Q2815-08	VX047331.D	13 Aug 2025 18:24	JC/MD	ReRun
25	Q2815-09	VX047332.D	13 Aug 2025 18:45	JC/MD	ReRun
26	Q2815-10	VX047333.D	13 Aug 2025 19:07	JC/MD	ReRun
27	VSTDCCC050	VX047334.D	13 Aug 2025 19:50	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081525

Review By	John Carlone	Review On	8/18/2025 8:45:53 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 1:41:47 AM		
SubDirectory	VX081525	HP Acquire Method		HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135148
Initial Calibration Stds	VP135153,VP135154,VP135155,VP135156,VP135157,VP135158
CCC	VP135152
Internal Standard/PEM	
ICV/I.BLK	VP135159
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047347.D	15 Aug 2025 08:28	JC/MD	Ok
2	VSTDICC001	VX047348.D	15 Aug 2025 09:18	JC/MD	Not Ok
3	VSTDICC005	VX047349.D	15 Aug 2025 09:40	JC/MD	Ok,M
4	VSTDICC020	VX047350.D	15 Aug 2025 10:01	JC/MD	Ok,M
5	VSTDICCC050	VX047351.D	15 Aug 2025 10:22	JC/MD	Ok,M
6	VSTDICC100	VX047352.D	15 Aug 2025 10:43	JC/MD	Ok,M
7	VSTDICC150	VX047353.D	15 Aug 2025 11:05	JC/MD	Ok,M
8	IBLK	VX047354.D	15 Aug 2025 11:26	JC/MD	Ok
9	VSTDICC001	VX047355.D	15 Aug 2025 12:08	JC/MD	Not Ok
10	VSTDICC001	VX047356.D	15 Aug 2025 12:30	JC/MD	Ok,M
11	VSTDICV050	VX047357.D	15 Aug 2025 13:11	JC/MD	Ok,M
12	VX0815WBL01	VX047358.D	15 Aug 2025 13:39	JC/MD	Ok
13	VX0815MBL01	VX047359.D	15 Aug 2025 14:00	JC/MD	Ok
14	VX0815WBS01	VX047360.D	15 Aug 2025 14:21	JC/MD	Ok,M
15	VX0815WBSD01	VX047361.D	15 Aug 2025 14:49	JC/MD	Ok,M
16	Q2880-01	VX047362.D	15 Aug 2025 15:10	JC/MD	Ok
17	Q2880-02	VX047363.D	15 Aug 2025 15:32	JC/MD	Ok
18	Q2880-03	VX047364.D	15 Aug 2025 15:53	JC/MD	Ok
19	Q2880-04	VX047365.D	15 Aug 2025 16:15	JC/MD	Ok
20	Q2886-01	VX047366.D	15 Aug 2025 16:36	JC/MD	Ok
21	Q2886-02	VX047367.D	15 Aug 2025 16:58	JC/MD	ReRun

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081525

Review By	John Carlone	Review On	8/18/2025 8:45:53 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 1:41:47 AM		
SubDirectory	VX081525	HP Acquire Method		HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135148
Initial Calibration Stds	VP135153,VP135154,VP135155,VP135156,VP135157,VP135158
CCC	VP135152
Internal Standard/PEM	
ICV/I.BLK	VP135159
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2837-01	VX047368.D	15 Aug 2025 17:19	JC/MD	Ok,M
23	VSTDCCC050	VX047369.D	15 Aug 2025 17:41	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081825

Review By	John Carlone	Review On	8/19/2025 8:39:16 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/20/2025 8:56:26 AM		
SubDirectory	VX081825	HP Acquire Method		HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135163
Initial Calibration Stds	
CCC	VP135164,VP135165
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047370.D	18 Aug 2025 09:32	JC/MD	Ok
2	VSTDCCC050	VX047371.D	18 Aug 2025 10:00	JC/MD	Ok,M
3	VX0818MBL01	VX047372.D	18 Aug 2025 10:28	JC/MD	Ok
4	VX0818WBL01	VX047373.D	18 Aug 2025 11:50	JC/MD	Ok
5	VX0818WBS01	VX047374.D	18 Aug 2025 12:17	JC/MD	Ok,M
6	VX0818WBSD01	VX047375.D	18 Aug 2025 12:44	JC/MD	Ok,M
7	Q2886-02	VX047376.D	18 Aug 2025 13:06	JC/MD	Ok
8	Q2815-01	VX047377.D	18 Aug 2025 13:27	JC/MD	Ok
9	Q2815-02	VX047378.D	18 Aug 2025 13:48	JC/MD	Ok
10	Q2815-03	VX047379.D	18 Aug 2025 14:10	JC/MD	Ok
11	Q2815-04	VX047380.D	18 Aug 2025 14:31	JC/MD	Ok
12	Q2815-05	VX047381.D	18 Aug 2025 14:53	JC/MD	Ok
13	Q2815-06RE	VX047382.D	18 Aug 2025 15:14	JC/MD	Confirms
14	Q2815-08	VX047383.D	18 Aug 2025 15:35	JC/MD	Ok
15	Q2815-09	VX047384.D	18 Aug 2025 15:57	JC/MD	Ok
16	Q2815-10	VX047385.D	18 Aug 2025 16:18	JC/MD	Ok
17	Q2815-11	VX047386.D	18 Aug 2025 16:40	JC/MD	ReRun
18	Q2815-12	VX047387.D	18 Aug 2025 17:01	JC/MD	ReRun
19	Q2815-13	VX047388.D	18 Aug 2025 17:22	JC/MD	Ok
20	Q2815-14	VX047389.D	18 Aug 2025 17:44	JC/MD	Ok
21	Q2815-15	VX047390.D	18 Aug 2025 18:05	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081825

Review By	John Carlone	Review On	8/19/2025 8:39:16 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/20/2025 8:56:26 AM		
SubDirectory	VX081825	HP Acquire Method		HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135163
Initial Calibration Stds	
CCC	VP135164,VP135165
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2815-16	VX047391.D	18 Aug 2025 18:27	JC/MD	ReRun
23	Q2815-17	VX047392.D	18 Aug 2025 18:48	JC/MD	Ok
24	PB169277TB	VX047393.D	18 Aug 2025 19:10	JC/MD	Ok,M
25	Q2875-01	VX047394.D	18 Aug 2025 19:31	JC/MD	Ok,M
26	Q2875-02	VX047395.D	18 Aug 2025 19:52	JC/MD	Ok,M
27	Q2884-04	VX047396.D	18 Aug 2025 20:14	JC/MD	Ok,M
28	Q2888-02	VX047397.D	18 Aug 2025 20:35	JC/MD	Ok,M
29	VSTDCCC050	VX047398.D	18 Aug 2025 20:57	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081925

Review By	John Carlone	Review On	8/20/2025 8:46:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/20/2025 8:58:28 AM		
SubDirectory	VX081925	HP Acquire Method		HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135170
Initial Calibration Stds	
CCC	VP135171,VP135172
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047399.D	19 Aug 2025 08:38	JC/MD	Ok
2	VSTDCCC050	VX047400.D	19 Aug 2025 09:37	JC/MD	Ok,M
3	VX0819MBL01	VX047401.D	19 Aug 2025 10:05	JC/MD	Ok
4	VX0819WBL01	VX047402.D	19 Aug 2025 10:55	JC/MD	Ok
5	VX0819WBS01	VX047403.D	19 Aug 2025 11:55	JC/MD	Ok,M
6	Q2815-11	VX047404.D	19 Aug 2025 12:16	JC/MD	Ok
7	VX0819WBSD01	VX047405.D	19 Aug 2025 12:37	JC/MD	Ok,M
8	Q2815-12	VX047406.D	19 Aug 2025 12:59	JC/MD	Ok
9	Q2815-16RE	VX047407.D	19 Aug 2025 13:20	JC/MD	Confirms
10	Q2815-24	VX047408.D	19 Aug 2025 13:41	JC/MD	Ok
11	Q2815-26	VX047409.D	19 Aug 2025 14:07	JC/MD	ReRun
12	Q2841-01	VX047410.D	19 Aug 2025 14:29	JC/MD	Ok
13	Q2841-01DL	VX047411.D	19 Aug 2025 14:50	JC/MD	Not Ok
14	Q2815-20	VX047412.D	19 Aug 2025 15:11	JC/MD	Ok
15	Q2815-21	VX047413.D	19 Aug 2025 15:32	JC/MD	ReRun
16	Q2815-22	VX047414.D	19 Aug 2025 15:53	JC/MD	ReRun
17	Q2815-23	VX047415.D	19 Aug 2025 16:14	JC/MD	Ok
18	Q2869-07	VX047416.D	19 Aug 2025 16:36	JC/MD	Ok
19	Q2869-10	VX047417.D	19 Aug 2025 16:57	JC/MD	Ok
20	Q2869-11	VX047418.D	19 Aug 2025 17:18	JC/MD	Ok
21	Q2815-18	VX047419.D	19 Aug 2025 17:39	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081925

Review By	John Carlone	Review On	8/20/2025 8:46:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/20/2025 8:58:28 AM		
SubDirectory	VX081925	HP Acquire Method		HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135170
Initial Calibration Stds	
CCC	VP135171,VP135172
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2815-19	VX047420.D	19 Aug 2025 18:00	JC/MD	Ok
23	Q2869-01	VX047421.D	19 Aug 2025 18:22	JC/MD	Ok
24	VX0819MBS01	VX047422.D	19 Aug 2025 18:43	JC/MD	Ok,M
25	Q2844-09DL	VX047423.D	19 Aug 2025 19:04	JC/MD	Ok
26	Q2884-03DL	VX047424.D	19 Aug 2025 19:25	JC/MD	Ok
27	VSTDCCC050	VX047425.D	19 Aug 2025 19:47	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX082025

Review By	John Carlone	Review On	8/21/2025 8:55:57 AM				
Supervise By	Mahesh Dadoda	Supervise On	8/22/2025 1:13:48 AM				
SubDirectory	VX082025	HP Acquire Method	MSVOA_X		HP Processing Method	82X081525W.M	

STD. NAME	STD REF.#
Tune/Reschk	VP135191
Initial Calibration Stds	
CCC	VP135192,VP135193
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047426.D	20 Aug 2025 07:50	JC/MD	Ok
2	VSTDCCC050	VX047427.D	20 Aug 2025 09:25	JC/MD	Ok,M
3	VX0820MBL01	VX047428.D	20 Aug 2025 09:46	JC/MD	Ok
4	VX0820WBL01	VX047429.D	20 Aug 2025 10:07	JC/MD	Ok
5	VX0820WBS01	VX047430.D	20 Aug 2025 10:35	JC/MD	Ok,M
6	VX0820WBSD01	VX047431.D	20 Aug 2025 11:06	JC/MD	Ok,M
7	Q2815-21RE	VX047432.D	20 Aug 2025 11:28	JC/MD	Confirms
8	Q2815-22	VX047433.D	20 Aug 2025 11:49	JC/MD	Ok
9	Q2815-26	VX047434.D	20 Aug 2025 12:11	JC/MD	Ok
10	Q2878-01	VX047435.D	20 Aug 2025 12:32	JC/MD	Not Ok
11	Q2878-05	VX047436.D	20 Aug 2025 12:54	JC/MD	Not Ok
12	Q2869-03	VX047437.D	20 Aug 2025 13:15	JC/MD	Not Ok
13	Q2869-04	VX047438.D	20 Aug 2025 13:37	JC/MD	Not Ok
14	Q2869-05	VX047439.D	20 Aug 2025 13:59	JC/MD	Not Ok
15	IBLK	VX047440.D	20 Aug 2025 14:20	JC/MD	Ok
16	Q2878-06	VX047441.D	20 Aug 2025 14:42	JC/MD	Ok
17	Q2900-07	VX047442.D	20 Aug 2025 15:04	JC/MD	ReRun
18	Q2900-01	VX047443.D	20 Aug 2025 15:25	JC/MD	Ok
19	Q2900-02	VX047444.D	20 Aug 2025 15:47	JC/MD	Dilution
20	Q2900-03	VX047445.D	20 Aug 2025 16:09	JC/MD	Dilution
21	Q2900-04	VX047446.D	20 Aug 2025 16:30	JC/MD	ReRun

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX082025

Review By	John Carlone	Review On	8/21/2025 8:55:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/22/2025 1:13:48 AM		
SubDirectory	VX082025	HP Acquire Method	MSVOA_X	HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135191
Initial Calibration Stds	
CCC	VP135192,VP135193
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2900-05	VX047447.D	20 Aug 2025 16:52	JC/MD	Dilution
23	Q2900-06	VX047448.D	20 Aug 2025 17:14	JC/MD	ReRun
24	Q2900-08	VX047449.D	20 Aug 2025 17:35	JC/MD	ReRun
25	Q2878-01	VX047450.D	20 Aug 2025 17:57	JC/MD	Dilution
26	Q2878-01DL	VX047451.D	20 Aug 2025 18:18	JC/MD	Ok,M
27	Q2878-05	VX047452.D	20 Aug 2025 18:40	JC/MD	Ok
28	VSTDCCC050	VX047453.D	20 Aug 2025 19:01	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX072125

Review By	John Carlone	Review On	7/22/2025 8:51:02 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/22/2025 1:41:20 PM		
SubDirectory	VX072125	HP Acquire Method		HP Processing Method	82X072125W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134843
Initial Calibration Stds	VP134844,VP134845,VP134846,VP134847,VP134848,VP134849
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP134850
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047054.D	21 Jul 2025 08:53		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX047055.D	21 Jul 2025 09:47		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX047056.D	21 Jul 2025 10:08	Comp. #11 is on Linear Regression	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX047057.D	21 Jul 2025 10:29		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX047058.D	21 Jul 2025 10:50		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX047059.D	21 Jul 2025 11:11		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX047060.D	21 Jul 2025 11:32		JC/MD	Ok,M
8	IBLK	IBLK	VX047061.D	21 Jul 2025 11:52		JC/MD	Ok
9	VSTDICV050	ICVVX072125	VX047062.D	21 Jul 2025 13:17		JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081325

Review By	John Carlone	Review On	8/14/2025 8:55:29 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:55:41 AM		
SubDirectory	VX081325	HP Acquire Method		HP Processing Method	82X072125W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135105
Initial Calibration Stds	
CCC	VP135106,VP135107
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	VX047308.D	13 Aug 2025 08:30		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047309.D	13 Aug 2025 09:44	pH#Lot#V12668	JC/MD	Ok,M
3	VX0813MBL01	VX0813MBL01	VX047310.D	13 Aug 2025 10:12		JC/MD	Ok
4	VX0813WBL01	VX0813WBL01	VX047311.D	13 Aug 2025 11:02		JC/MD	Ok
5	VX0813WBS01	VX0813WBS01	VX047312.D	13 Aug 2025 11:24		JC/MD	Ok,M
6	VX0813WBSD01	VX0813WBSD01	VX047313.D	13 Aug 2025 11:52		JC/MD	Ok,M
7	Q2814-12RE	TW-BP-SRE	VX047314.D	13 Aug 2025 12:13	vial B pH<2 Surrogate Fail;	JC/MD	Confirms
8	Q2814-16	FB	VX047315.D	13 Aug 2025 12:35	vial B pH<2 FB	JC/MD	Ok
9	Q2814-21	TB	VX047316.D	13 Aug 2025 12:57	vial A pH<2 TB,Surrogate Fail	JC/MD	ReRun
10	Q2814-06RE	TW-82H-SRE	VX047317.D	13 Aug 2025 13:18	vial B pH<2 Surrogate Fail	JC/MD	Confirms
11	Q2814-07RE	TW-82H-WRE	VX047318.D	13 Aug 2025 13:40	vial B pH<2 Surrogate Fail	JC/MD	Confirms
12	Q2814-17	TW-518R-S	VX047319.D	13 Aug 2025 14:02	vial A pH<2 Surrogate Fail	JC/MD	ReRun
13	Q2814-18	TW-518R-N	VX047320.D	13 Aug 2025 14:24	vial A pH<2 Surrogate Fail	JC/MD	ReRun
14	Q2814-19	TW-518R-E	VX047321.D	13 Aug 2025 14:45	vial A pH<2 Surrogate Fail	JC/MD	ReRun
15	Q2814-20	TW-518R-W	VX047322.D	13 Aug 2025 15:07	vial A pH<2	JC/MD	Ok
16	Q2837-01	TW-WTS-13	VX047323.D	13 Aug 2025 15:29	vial A pH<2 Surrogate Fail	JC/MD	ReRun
17	Q2815-01	TW-705R-S	VX047324.D	13 Aug 2025 15:51	vial A pH<2 Surrogate Fail	JC/MD	ReRun
18	Q2815-02	TW-10PC-W	VX047325.D	13 Aug 2025 16:13	vial A pH<2 Surrogate Fail	JC/MD	ReRun

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081325

Review By	John Carlone	Review On	8/14/2025 8:55:29 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:55:41 AM		
SubDirectory	VX081325	HP Acquire Method		HP Processing Method	82X072125W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135105
Initial Calibration Stds	
CCC	VP135106,VP135107
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2815-03	TW-10P-E	VX047326.D	13 Aug 2025 16:35	vial A pH<2 Surrogate Fail	JC/MD	ReRun
20	Q2815-04	TW-10P-S	VX047327.D	13 Aug 2025 16:57	vial A pH<2 Surrogate Fail	JC/MD	ReRun
21	Q2815-05	TW-10P-W	VX047328.D	13 Aug 2025 17:19	vial A pH<2 Surrogate Fail	JC/MD	ReRun
22	Q2815-06	TW-10P-N	VX047329.D	13 Aug 2025 17:40	vial A pH<2 Surrogate Fail	JC/MD	ReRun
23	Q2815-07	TW-88H-E	VX047330.D	13 Aug 2025 18:02	vial A pH<2	JC/MD	Ok
24	Q2815-08	TW-88H-N	VX047331.D	13 Aug 2025 18:24	vial A pH<2 Surrogate Fail	JC/MD	ReRun
25	Q2815-09	TW-88H-W	VX047332.D	13 Aug 2025 18:45	vial A pH<2 Surrogate Fail	JC/MD	ReRun
26	Q2815-10	TW-88H-S	VX047333.D	13 Aug 2025 19:07	vial A pH<2 Surrogate Fail	JC/MD	ReRun
27	VSTDCCC050	VSTDCCC050EC	VX047334.D	13 Aug 2025 19:50		JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081525

Review By	John Carlone	Review On	8/18/2025 8:45:53 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 1:41:47 AM		
SubDirectory	VX081525	HP Acquire Method		HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135148
Initial Calibration Stds	VP135153,VP135154,VP135155,VP135156,VP135157,VP135158
CCC	VP135152
Internal Standard/PEM	
ICV/I.BLK	VP135159
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047347.D	15 Aug 2025 08:28		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX047348.D	15 Aug 2025 09:18	Not used	JC/MD	Not Ok
3	VSTDICC005	VSTDICC005	VX047349.D	15 Aug 2025 09:40	LR-58,81	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX047350.D	15 Aug 2025 10:01		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX047351.D	15 Aug 2025 10:22		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX047352.D	15 Aug 2025 10:43		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX047353.D	15 Aug 2025 11:05		JC/MD	Ok,M
8	IBLK	IBLK	VX047354.D	15 Aug 2025 11:26		JC/MD	Ok
9	VSTDICC001	VSTDICC001	VX047355.D	15 Aug 2025 12:08	Not used	JC/MD	Not Ok
10	VSTDICC001	VSTDICC001	VX047356.D	15 Aug 2025 12:30		JC/MD	Ok,M
11	VSTDICV050	ICVVX081525	VX047357.D	15 Aug 2025 13:11		JC/MD	Ok,M
12	VX0815WBL01	VX0815WBL01	VX047358.D	15 Aug 2025 13:39		JC/MD	Ok
13	VX0815MBL01	VX0815MBL01	VX047359.D	15 Aug 2025 14:00		JC/MD	Ok
14	VX0815WBS01	VX0815WBS01	VX047360.D	15 Aug 2025 14:21		JC/MD	Ok,M
15	VX0815WBSD01	VX0815WBSD01	VX047361.D	15 Aug 2025 14:49		JC/MD	Ok,M
16	Q2880-01	STORAGE-BLANK-SO	VX047362.D	15 Aug 2025 15:10	vial A pH<2	JC/MD	Ok
17	Q2880-02	STORAGE-BLANK-WA	VX047363.D	15 Aug 2025 15:32	vial A pH<2	JC/MD	Ok
18	Q2880-03	STORAGE-BLANK-WA	VX047364.D	15 Aug 2025 15:53	vial A pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081525

Review By	John Carlone	Review On	8/18/2025 8:45:53 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 1:41:47 AM		
SubDirectory	VX081525	HP Acquire Method		HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135148
Initial Calibration Stds	VP135153,VP135154,VP135155,VP135156,VP135157,VP135158
CCC	VP135152
Internal Standard/PEM	
ICV/I.BLK	VP135159
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2880-04	STORAGE-BLANK-SAI	VX047365.D	15 Aug 2025 16:15	vial A pH<2	JC/MD	Ok
20	Q2886-01	BP-TT182D-TB-202508	VX047366.D	15 Aug 2025 16:36	vial A pH<2	JC/MD	Ok
21	Q2886-02	BP-TT182D-GW-20250	VX047367.D	15 Aug 2025 16:58	vial A pH<2 Surrogate Fail	JC/MD	ReRun
22	Q2837-01	TW-WTS-13	VX047368.D	15 Aug 2025 17:19	vial B pH<2	JC/MD	Ok,M
23	VSTDCCC050	VSTDCCC050EC	VX047369.D	15 Aug 2025 17:41		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081825

Review By	John Carlone	Review On	8/19/2025 8:39:16 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/20/2025 8:56:26 AM		
SubDirectory	VX081825	HP Acquire Method		HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135163
Initial Calibration Stds	
CCC	VP135164,VP135165
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	VX047370.D	18 Aug 2025 09:32		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047371.D	18 Aug 2025 10:00	pH#Lot#V12668	JC/MD	Ok,M
3	VX0818MBL01	VX0818MBL01	VX047372.D	18 Aug 2025 10:28		JC/MD	Ok
4	VX0818WBL01	VX0818WBL01	VX047373.D	18 Aug 2025 11:50		JC/MD	Ok
5	VX0818WBS01	VX0818WBS01	VX047374.D	18 Aug 2025 12:17		JC/MD	Ok,M
6	VX0818WBSD01	VX0818WBSD01	VX047375.D	18 Aug 2025 12:44		JC/MD	Ok,M
7	Q2886-02	BP-TT182D-GW-20250	VX047376.D	18 Aug 2025 13:06	vial B pH<2	JC/MD	Ok
8	Q2815-01	TW-705R-S	VX047377.D	18 Aug 2025 13:27	vial B pH<2	JC/MD	Ok
9	Q2815-02	TW-10PC-W	VX047378.D	18 Aug 2025 13:48	vial B pH<2	JC/MD	Ok
10	Q2815-03	TW-10P-E	VX047379.D	18 Aug 2025 14:10	vial B pH<2	JC/MD	Ok
11	Q2815-04	TW-10P-S	VX047380.D	18 Aug 2025 14:31	vial B pH<2	JC/MD	Ok
12	Q2815-05	TW-10P-W	VX047381.D	18 Aug 2025 14:53	vial B pH<2	JC/MD	Ok
13	Q2815-06RE	TW-10P-NRE	VX047382.D	18 Aug 2025 15:14	vial B pH<2 Surrogate fail	JC/MD	Confirms
14	Q2815-08	TW-88H-N	VX047383.D	18 Aug 2025 15:35	vial B pH<2	JC/MD	Ok
15	Q2815-09	TW-88H-W	VX047384.D	18 Aug 2025 15:57	vial B pH<2	JC/MD	Ok
16	Q2815-10	TW-88H-S	VX047385.D	18 Aug 2025 16:18	vial B pH<2	JC/MD	Ok
17	Q2815-11	TW-22M-W	VX047386.D	18 Aug 2025 16:40	vial A pH<2 Surrogate fail	JC/MD	ReRun
18	Q2815-12	TW-22M-S	VX047387.D	18 Aug 2025 17:01	vial A pH<2 Surrogate fail	JC/MD	ReRun

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081825

Review By	John Carlone	Review On	8/19/2025 8:39:16 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/20/2025 8:56:26 AM		
SubDirectory	VX081825	HP Acquire Method		HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135163
Initial Calibration Stds	
CCC	VP135164,VP135165
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2815-13	TW-22M-E	VX047388.D	18 Aug 2025 17:22	vial A pH<2	JC/MD	Ok
20	Q2815-14	TW-22M-N	VX047389.D	18 Aug 2025 17:44	vial A pH<2	JC/MD	Ok
21	Q2815-15	TW-17M-E	VX047390.D	18 Aug 2025 18:05	vial A pH<2	JC/MD	Ok
22	Q2815-16	TW-17M-S	VX047391.D	18 Aug 2025 18:27	vial A pH<2 Surrogate fail	JC/MD	ReRun
23	Q2815-17	TW-84SB-S	VX047392.D	18 Aug 2025 18:48	vial A pH<2	JC/MD	Ok
24	PB169277TB	PB169277TB	VX047393.D	18 Aug 2025 19:10		JC/MD	Ok,M
25	Q2875-01	SAND-BLAST-A	VX047394.D	18 Aug 2025 19:31	vial A pH#5.0	JC/MD	Ok,M
26	Q2875-02	SAND-BLAST-B	VX047395.D	18 Aug 2025 19:52	vial A pH#5.0	JC/MD	Ok,M
27	Q2884-04	302	VX047396.D	18 Aug 2025 20:14	vial A pH#5.0	JC/MD	Ok,M
28	Q2888-02	VNJ-210	VX047397.D	18 Aug 2025 20:35	vial A pH#5.0	JC/MD	Ok,M
29	VSTDCCC050	VSTDCCC050EC	VX047398.D	18 Aug 2025 20:57		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081925

Review By	John Carlone	Review On	8/20/2025 8:46:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/20/2025 8:58:28 AM		
SubDirectory	VX081925	HP Acquire Method		HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135170
Initial Calibration Stds	
CCC	VP135171,VP135172
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	VX047399.D	19 Aug 2025 08:38		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047400.D	19 Aug 2025 09:37	pH#Lot#V12668	JC/MD	Ok,M
3	VX0819MBL01	VX0819MBL01	VX047401.D	19 Aug 2025 10:05		JC/MD	Ok
4	VX0819WBL01	VX0819WBL01	VX047402.D	19 Aug 2025 10:55		JC/MD	Ok
5	VX0819WBS01	VX0819WBS01	VX047403.D	19 Aug 2025 11:55		JC/MD	Ok,M
6	Q2815-11	TW-22M-W	VX047404.D	19 Aug 2025 12:16	vial B pH<2	JC/MD	Ok
7	VX0819WBSD01	VX0819WBSD01	VX047405.D	19 Aug 2025 12:37		JC/MD	Ok,M
8	Q2815-12	TW-22M-S	VX047406.D	19 Aug 2025 12:59	vial B pH<2	JC/MD	Ok
9	Q2815-16RE	TW-17M-SRE	VX047407.D	19 Aug 2025 13:20	vial B pH<2 Surrogate Fail	JC/MD	Confirms
10	Q2815-24	TB	VX047408.D	19 Aug 2025 13:41	vial A pH<2 TB	JC/MD	Ok
11	Q2815-26	FB	VX047409.D	19 Aug 2025 14:07	vial A pH<2 FB;Surrogate Fail	JC/MD	ReRun
12	Q2841-01	MW-06-6.5-08122025	VX047410.D	19 Aug 2025 14:29	vial A pH<2	JC/MD	Ok
13	Q2841-01DL	MW-06-6.5-08122025D	VX047411.D	19 Aug 2025 14:50	Not required	JC/MD	Not Ok
14	Q2815-20	TW-11M-W	VX047412.D	19 Aug 2025 15:11	vial A pH<2	JC/MD	Ok
15	Q2815-21	TW-11M-E	VX047413.D	19 Aug 2025 15:32	vial A pH<2 Surrogate Fail	JC/MD	ReRun
16	Q2815-22	TW-11M-S	VX047414.D	19 Aug 2025 15:53	vial A pH<2 Surrogate Fail	JC/MD	ReRun
17	Q2815-23	TW-11M-N	VX047415.D	19 Aug 2025 16:14	vial A pH<2	JC/MD	Ok
18	Q2869-07	EB01-081325	VX047416.D	19 Aug 2025 16:36	vial A pH<2 EB	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX081925

Review By	John Carlone	Review On	8/20/2025 8:46:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/20/2025 8:58:28 AM		
SubDirectory	VX081925	HP Acquire Method		HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135170
Initial Calibration Stds	
CCC	VP135171,VP135172
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2869-10	EB02-081325	VX047417.D	19 Aug 2025 16:57	vial A pH<2 EB	JC/MD	Ok
20	Q2869-11	TB01-081325	VX047418.D	19 Aug 2025 17:18	vial A pH<2 TB	JC/MD	Ok
21	Q2815-18	TW-84SB-W	VX047419.D	19 Aug 2025 17:39	vial A pH<2	JC/MD	Ok
22	Q2815-19	DUP	VX047420.D	19 Aug 2025 18:00	vial A pH<2	JC/MD	Ok
23	Q2869-01	MW-19B-71.5-081325	VX047421.D	19 Aug 2025 18:22	vial A pH<2	JC/MD	Ok
24	VX0819MBS01	VX0819MBS01	VX047422.D	19 Aug 2025 18:43		JC/MD	Ok,M
25	Q2844-09DL	MOO-25-0226DL	VX047423.D	19 Aug 2025 19:04		JC/MD	Ok
26	Q2884-03DL	302DL	VX047424.D	19 Aug 2025 19:25		JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX047425.D	19 Aug 2025 19:47		JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX082025

Review By	John Carlone	Review On	8/21/2025 8:55:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/22/2025 1:13:48 AM		
SubDirectory	VX082025	HP Acquire Method	MSVOA_X	HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135191
Initial Calibration Stds	
CCC	VP135192,VP135193
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	VX047426.D	20 Aug 2025 07:50		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047427.D	20 Aug 2025 09:25	pH#Lot#V12668	JC/MD	Ok,M
3	VX0820MBL01	VX0820MBL01	VX047428.D	20 Aug 2025 09:46		JC/MD	Ok
4	VX0820WBL01	VX0820WBL01	VX047429.D	20 Aug 2025 10:07		JC/MD	Ok
5	VX0820WBS01	VX0820WBS01	VX047430.D	20 Aug 2025 10:35		JC/MD	Ok,M
6	VX0820WBSD01	VX0820WBSD01	VX047431.D	20 Aug 2025 11:06		JC/MD	Ok,M
7	Q2815-21RE	TW-11M-ERE	VX047432.D	20 Aug 2025 11:28	vial B pH<2 Surrogate Fail	JC/MD	Confirms
8	Q2815-22	TW-11M-S	VX047433.D	20 Aug 2025 11:49	vial B pH<2	JC/MD	Ok
9	Q2815-26	FB	VX047434.D	20 Aug 2025 12:11	vial B pH<2 FB	JC/MD	Ok
10	Q2878-01	MW-18B-57.5-081325	VX047435.D	20 Aug 2025 12:32	Run @ lower dilution	JC/MD	Not Ok
11	Q2878-05	MW-11A-37.5-081425	VX047436.D	20 Aug 2025 12:54	Run @ lower dilution	JC/MD	Not Ok
12	Q2869-03	MW-01-6.5-081325	VX047437.D	20 Aug 2025 13:15	Need straight run	JC/MD	Not Ok
13	Q2869-04	MW-11A-13.5-081325	VX047438.D	20 Aug 2025 13:37	Run @ 10x	JC/MD	Not Ok
14	Q2869-05	MW-19B-71.5-081325-I	VX047439.D	20 Aug 2025 13:59	Run @ 40x	JC/MD	Not Ok
15	IBLK	IBLK	VX047440.D	20 Aug 2025 14:20		JC/MD	Ok
16	Q2878-06	TB01-081425	VX047441.D	20 Aug 2025 14:42	vial A pH<2 TB	JC/MD	Ok
17	Q2900-07	MW-11B-081825	VX047442.D	20 Aug 2025 15:04	vial A pH<2 Surrogate Fail	JC/MD	ReRun
18	Q2900-01	MN-9C-081825	VX047443.D	20 Aug 2025 15:25	vial A pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX082025

Review By	John Carlone	Review On	8/21/2025 8:55:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/22/2025 1:13:48 AM		
SubDirectory	VX082025	HP Acquire Method	MSVOA_X	HP Processing Method	82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135191
Initial Calibration Stds	
CCC	VP135192,VP135193
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2900-02	MN-12C-081825	VX047444.D	20 Aug 2025 15:47	vial A pH<2 Surrogate Fail;Need 50X	JC/MD	Dilution
20	Q2900-03	DUP-01-081825	VX047445.D	20 Aug 2025 16:09	vial A pH<2 Surrogate Fail;Need 50X	JC/MD	Dilution
21	Q2900-04	MW-17B-081825	VX047446.D	20 Aug 2025 16:30	vial A pH<2 E flag of previous sample	JC/MD	ReRun
22	Q2900-05	MW-11C-081825	VX047447.D	20 Aug 2025 16:52	vial A pH<2 Need 50X	JC/MD	Dilution
23	Q2900-06	MW-17C-081825	VX047448.D	20 Aug 2025 17:14	vial A pH<2 Surrogate Fail	JC/MD	ReRun
24	Q2900-08	TB-081825	VX047449.D	20 Aug 2025 17:35	vial A pH<2 TB,Surrogate Fail	JC/MD	ReRun
25	Q2878-01	MW-18B-57.5-081325	VX047450.D	20 Aug 2025 17:57	vial A pH<2 Need 10X	JC/MD	Dilution
26	Q2878-01DL	MW-18B-57.5-081325D	VX047451.D	20 Aug 2025 18:18	vial B pH<2	JC/MD	Ok,M
27	Q2878-05	MW-11A-37.5-081425	VX047452.D	20 Aug 2025 18:40	vial A pH<2	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX047453.D	20 Aug 2025 19:01		JC/MD	Ok,M

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Prep Standard - Chemical Standard Summary

Order ID : Q2815

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: vx081325,VX081825,VX081925,VX082025,

Standard ID :
VP134142,VP134149,VP134810,VP134933,VP134956,VP134957,VP135059,VP135105,VP135106,VP135107,VP135129,VP135163,VP135164,VP135165,VP135170,VP135171,VP135172,VP135191,VP135192,VP135193,

Chemical ID :
V13391,V14290,V14444,V14446,V14507,V14508,V14529,V14530,V14625,V14626,V14629,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14702,V14705,V14716,V14745,V14751,V14806,V14807,V14843,V14906,V14929,V15050,V15051,V15052,V15057,V15058,V15059,W3112,

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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

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP134810	07/18/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 1.00000ml of V15052 + 1.50000ml of V15050 + 1.50000ml of V15051 + 21.00000ml of V14629 = Final Quantity: 25.000 ml

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

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VOC STANDARD PREPARATION LOG

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

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

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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	VP135059	08/11/2025	09/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 0.40000ml of V14843 + 1.00000ml of V14444 + 1.00000ml of V14446 + 1.00000ml of V14507 + 1.00000ml of V14508 + 1.00000ml of V14529 + 1.00000ml of V14530 + 1.00000ml of V14705 + 1.00000ml of V14745 + 1.00000ml of V14751 + 1.00000ml of V14806 + 1.00000ml of V14807 + 1.50000ml of V14702 + 1.50000ml of V14716 + 10.60000ml of V14625 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135105	08/13/2025	08/14/2025	John Carlone	None	None	Mahesh Dadoda 08/19/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135106	08/13/2025	08/14/2025	John Carlone	None	None	Mahesh Dadoda 08/19/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP134810 + 0.01250ml of VP135059 = 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	VP135107	08/13/2025	08/14/2025	John Carlone	None	None	Mahesh Dadoda 08/19/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP134810 + 0.01250ml of VP135059 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135129	08/14/2025	09/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 1.00000ml of V15059 + 1.50000ml of V15057 + 1.50000ml of V15058 + 21.00000ml of V14625 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135163	08/18/2025	08/19/2025	John Carlone	None	None	Mahesh Dadoda 08/20/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135164	08/18/2025	08/19/2025	John Carlone	None	None	Mahesh Dadoda 08/20/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135129 = 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	VP135165	08/18/2025	08/19/2025	John Carlone	None	None	Mahesh Dadoda 08/20/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135129 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135170	08/19/2025	08/20/2025	John Carlone	None	None	Mahesh Dadoda 08/20/2025

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	VP135171	08/19/2025	08/20/2025	John Carlone	None	None	Mahesh Dadoda 08/20/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135129 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135172	08/19/2025	08/20/2025	John Carlone	None	None	Mahesh Dadoda 08/20/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135129 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135191	08/20/2025	08/21/2025	John Carlone	None	None	Semsettin Yesilyurt 08/22/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135192	08/20/2025	08/21/2025	John Carlone	None	None	Semsettin Yesilyurt 08/22/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135129 = 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	VP135193	08/20/2025	08/21/2025	John Carlone	None	None	Semsettin Yesilyurt 08/22/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135129 = Final Quantity: 40.000 ml

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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	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 #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	08/08/2025 / SAM	08/15/2024 / SAM	V14444

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	08/08/2025 / SAM	08/15/2024 / SAM	V14446

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	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14507

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	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14508

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14529

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	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14530

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 #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	01/09/2026	07/07/2025 / SAM	11/26/2024 / SAM	V14629

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

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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

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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	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14702

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14705

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14716

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	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14745

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	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14751

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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	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14806

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	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14807

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	11/12/2025	05/12/2025 / SAM	01/21/2025 / SAM	V14843

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	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 #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	071625	08/16/2025	07/17/2025 / SAM	07/17/2025 / SAM	V15050

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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)	071625	08/16/2025	07/17/2025 / SAM	07/17/2025 / SAM	V15051

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	071625	08/16/2025	07/17/2025 / SAM	07/17/2025 / SAM	V15052

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081325	09/13/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15057

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081325	09/13/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081325	09/13/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15059

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
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Revision No.: 0

Certificate of Analysis

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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
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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
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Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
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500 Series for Drinking Water
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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

Weight(s) shown below were combined and diluted to (mL):	100.0	0.021	Flask Uncertainty
		5E-05	Balance Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

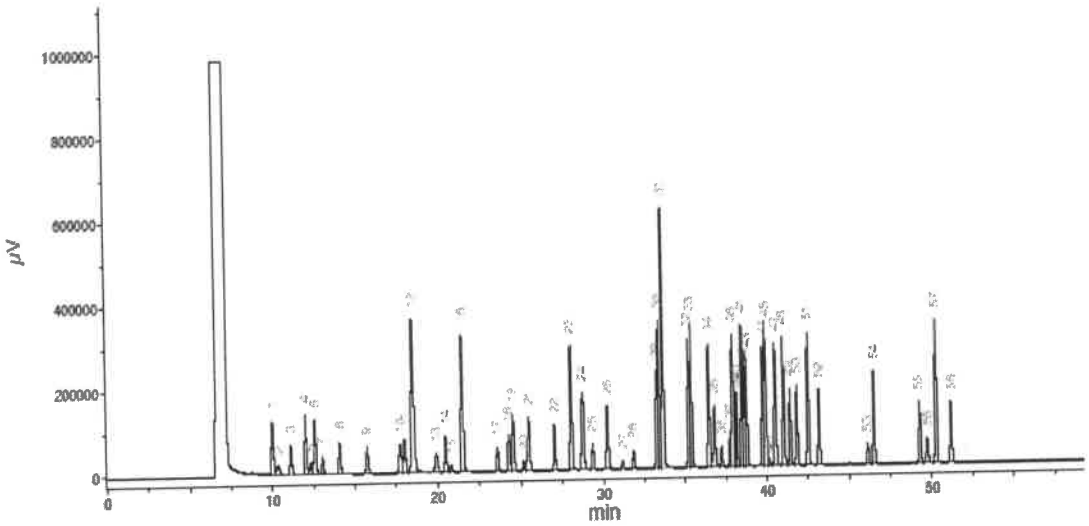
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	9.97
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	27.07
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	35.21
33	Styrene	35.30
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	41.12
50	1,4-Dichlorobenzene	41.23
51	n-Butylbenzene	42.12
52	1,2-Dichlorobenzene	42.18
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.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	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

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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

Weight(s) shown below were combined and diluted to (mL):	100.0	0.021	Flask Uncertainty	5E-05 Balance Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

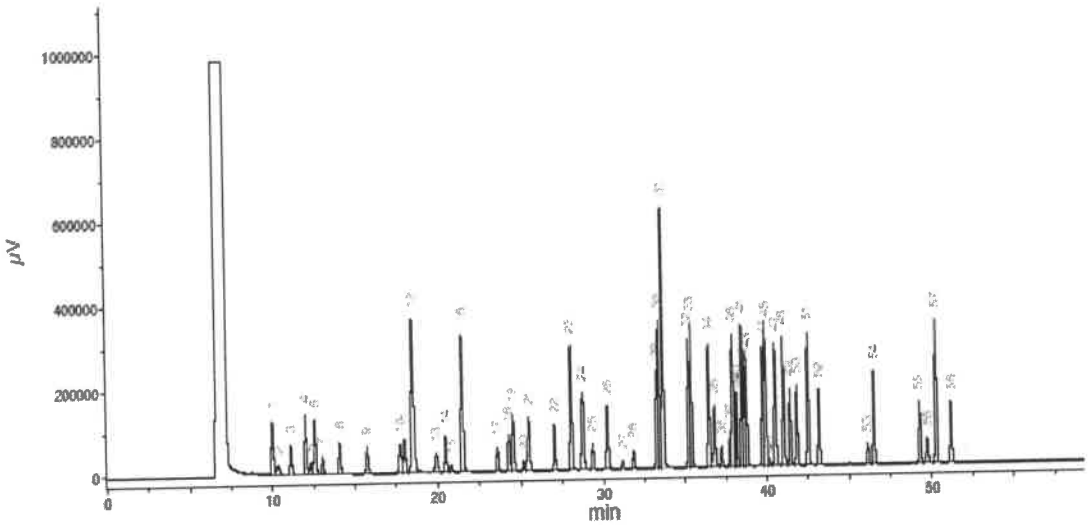
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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)	MKCR6561	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	9.97
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	35.23
33	Styrene	35.30
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.

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Hamden, CT 06518-0585

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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.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	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))			% (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.
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

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
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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

Solvent(s): Water **Lot#** 072324Q

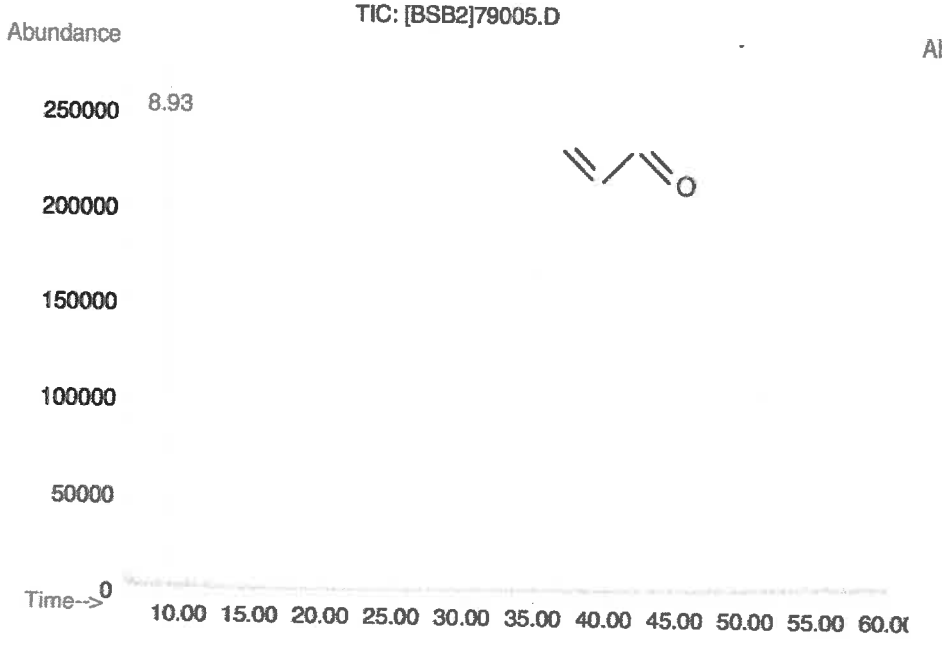
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

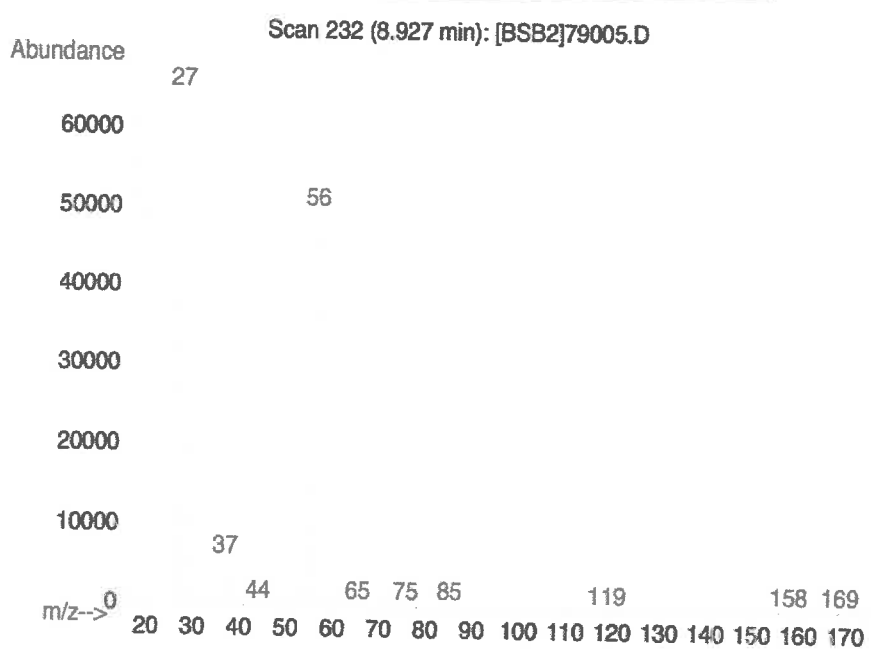
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

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.





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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

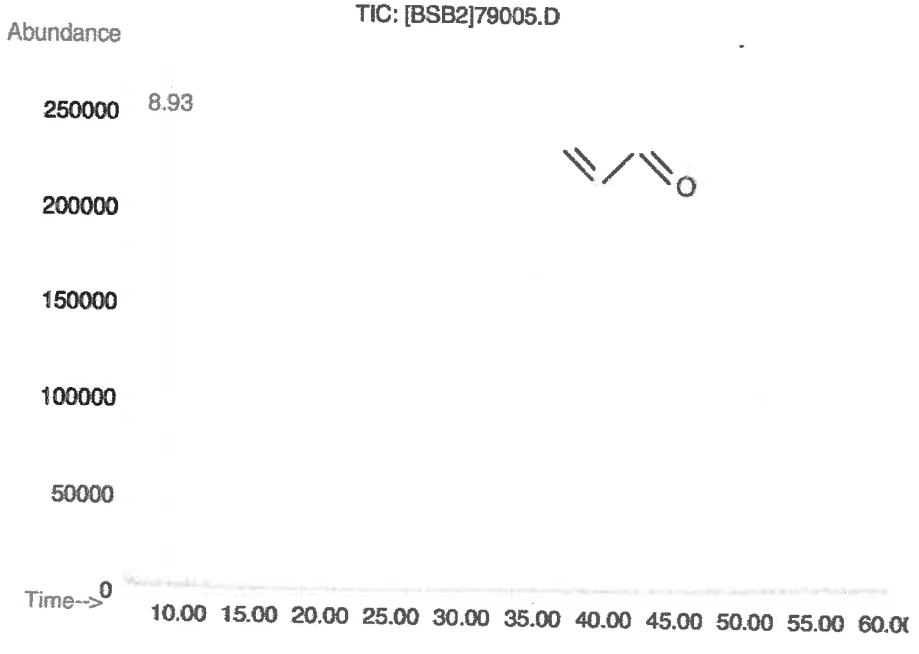
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

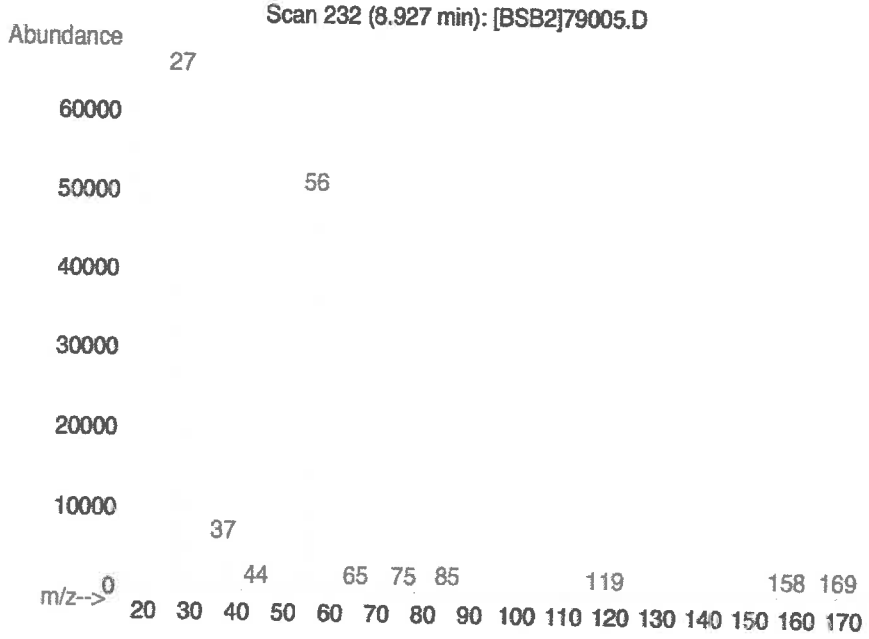
Justin Dippold 091424
Formulated By: Justin Dippold DATE

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.





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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

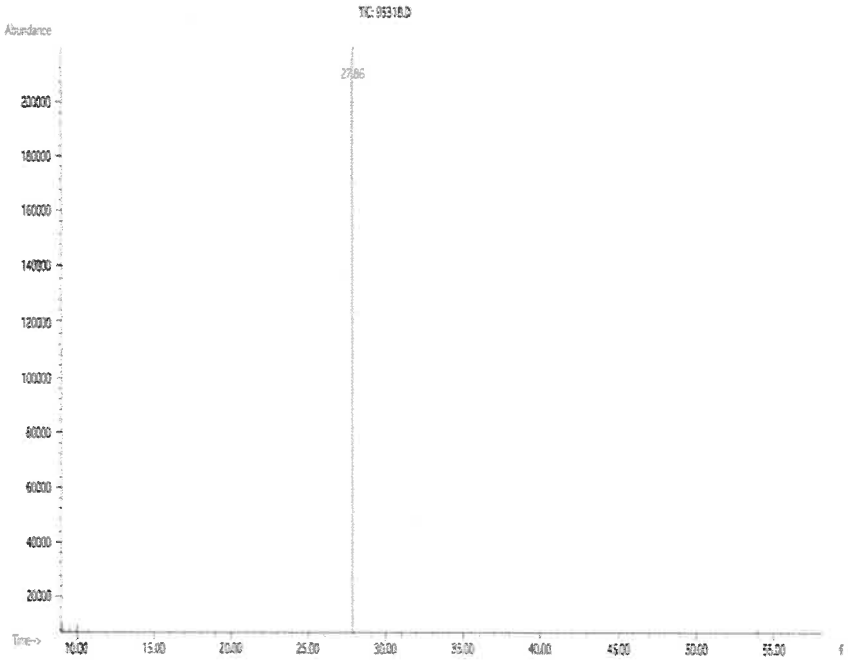
Solvent(s): Methanol **Lot#** EJ143-US

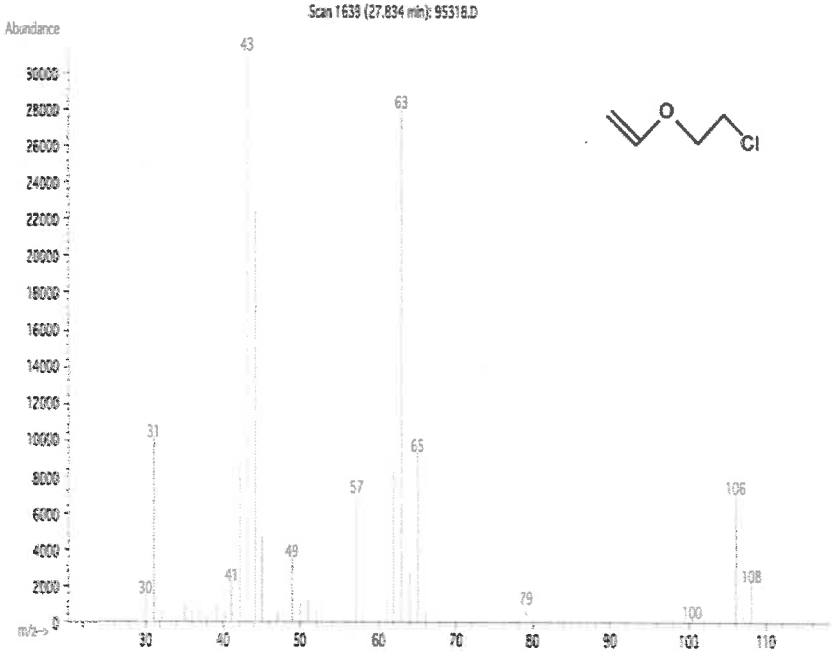
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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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.

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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

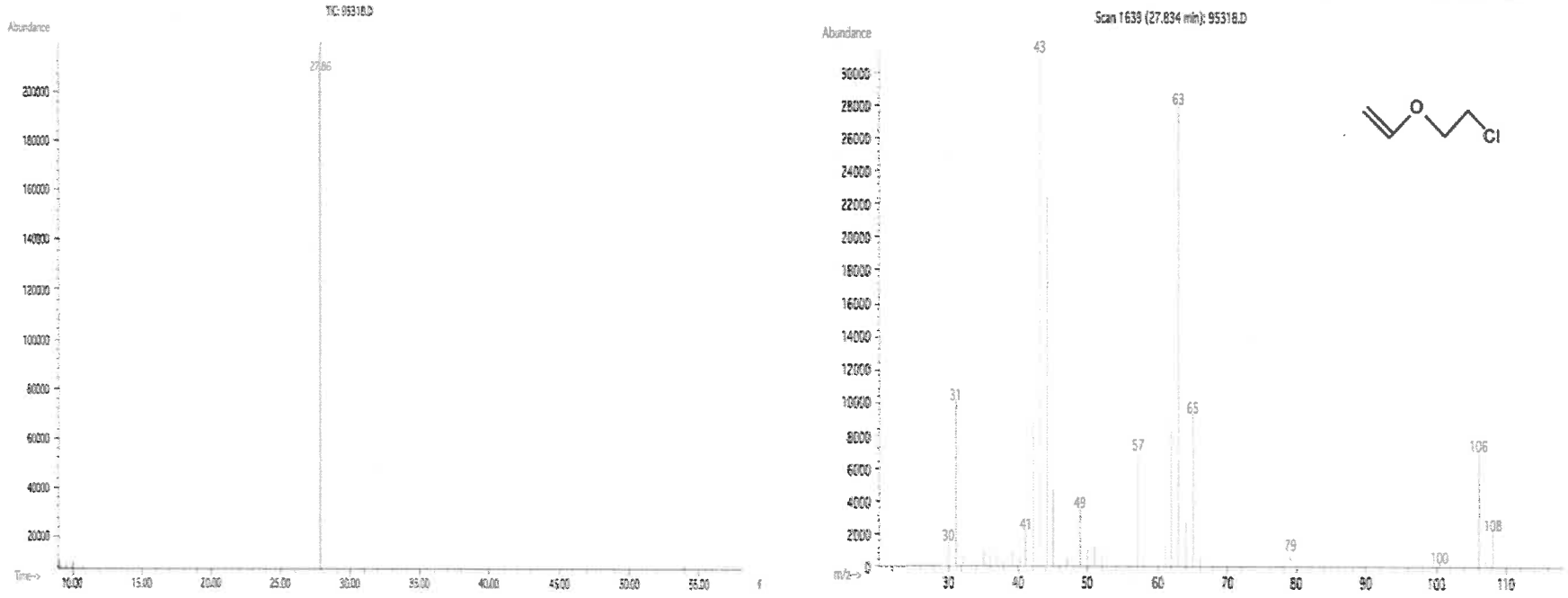
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE

Pedro Rentas 120524
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.



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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.
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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.

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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.

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Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
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Hazardous decomposition products formed under fire conditions. - Carbon oxides

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LC50	15,400 mg/l - 96 h
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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
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CERTIFIED WEIGHT REPORT

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Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE

Pedro Rentas 120524
Reviewed By: Pedro L. Rentas DATE

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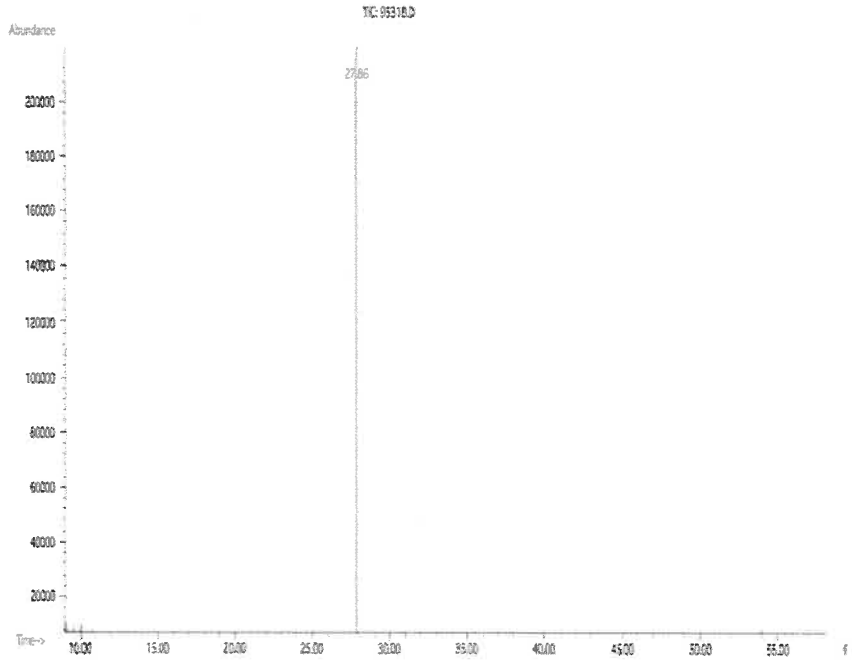

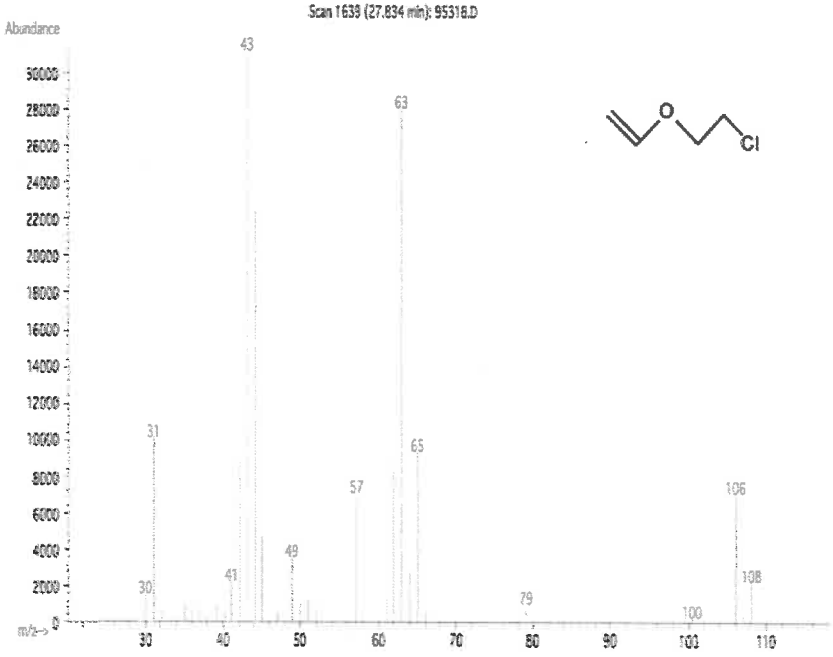

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- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should 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

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EJ143-US

V14630 to V14649

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

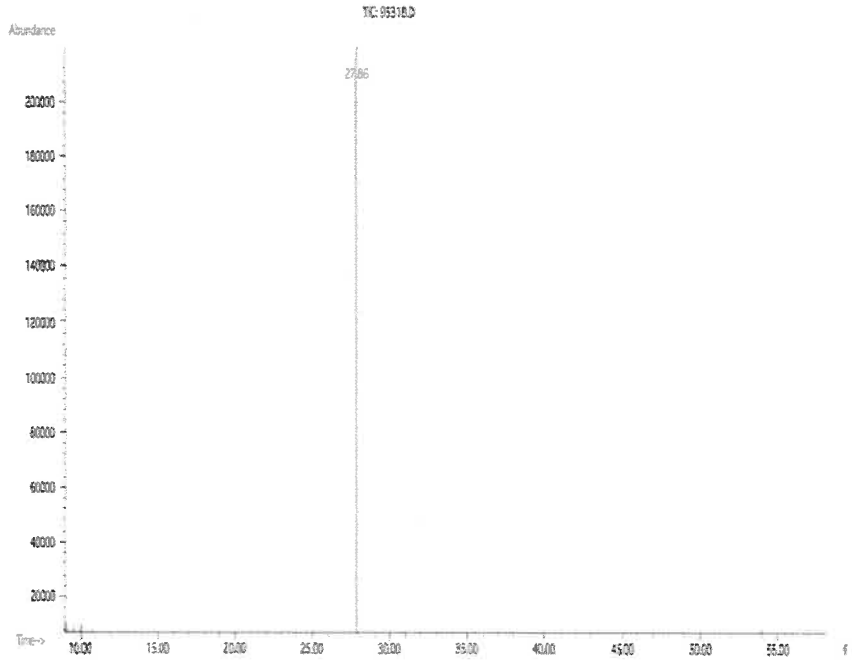
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

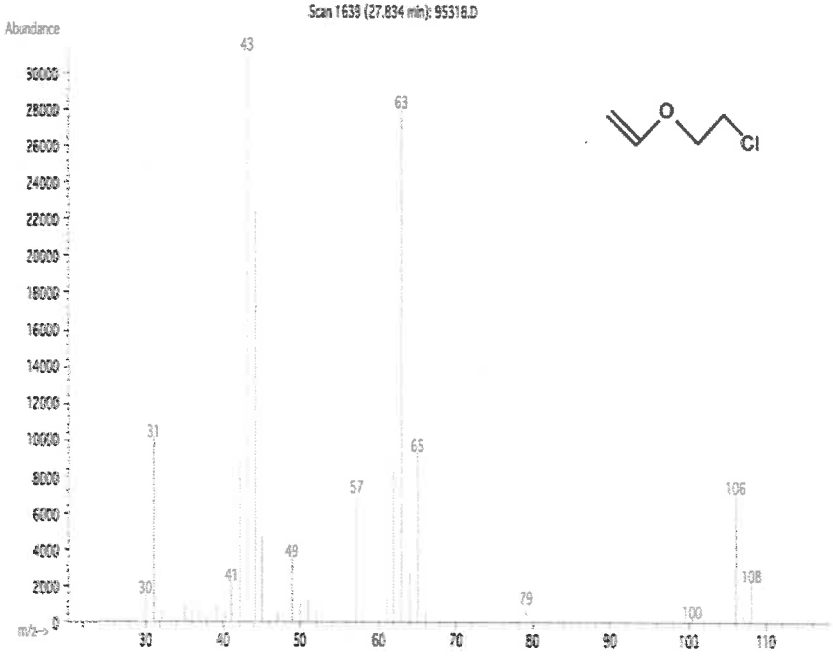
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

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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

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Skin notation TWA 200 ppm
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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

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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.

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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.)

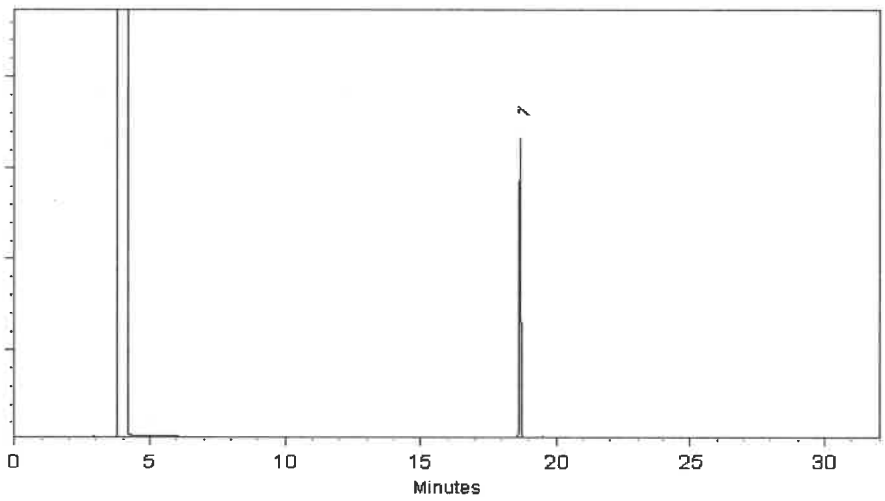
Inj. Temp:
200°C

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. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

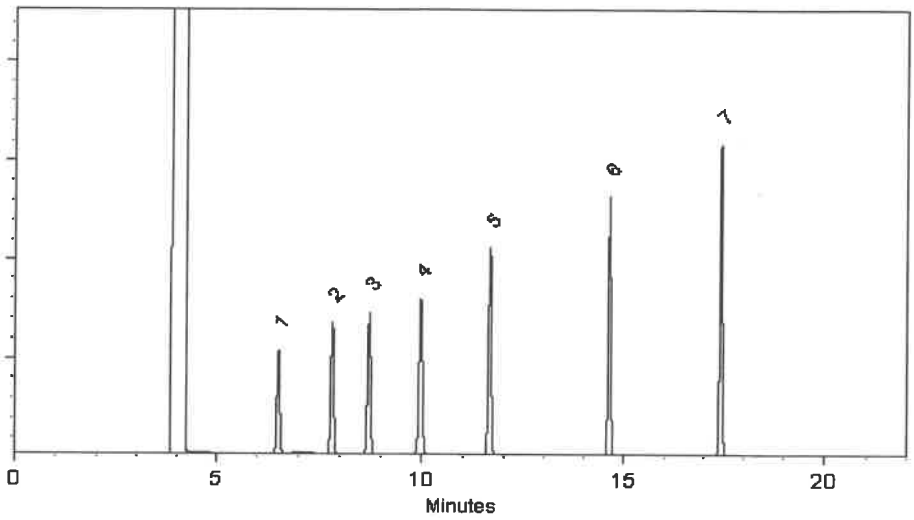
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

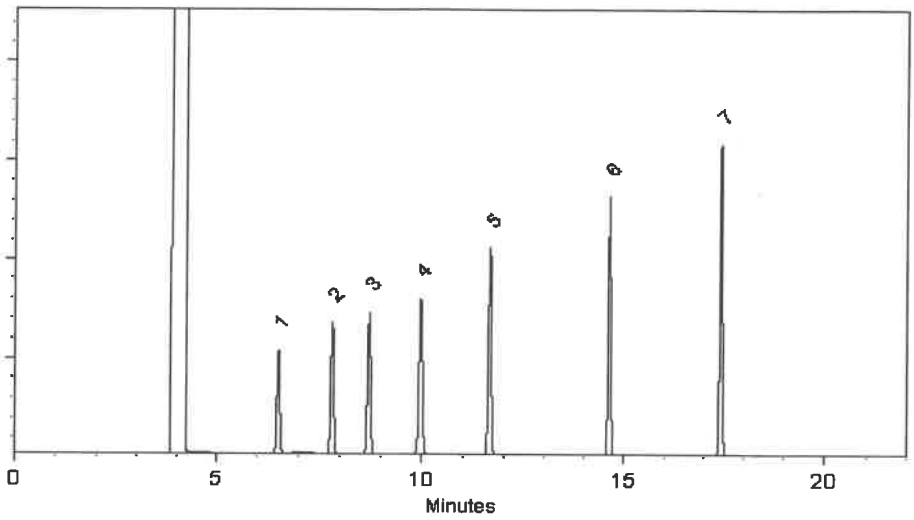
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

gravimetric

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ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

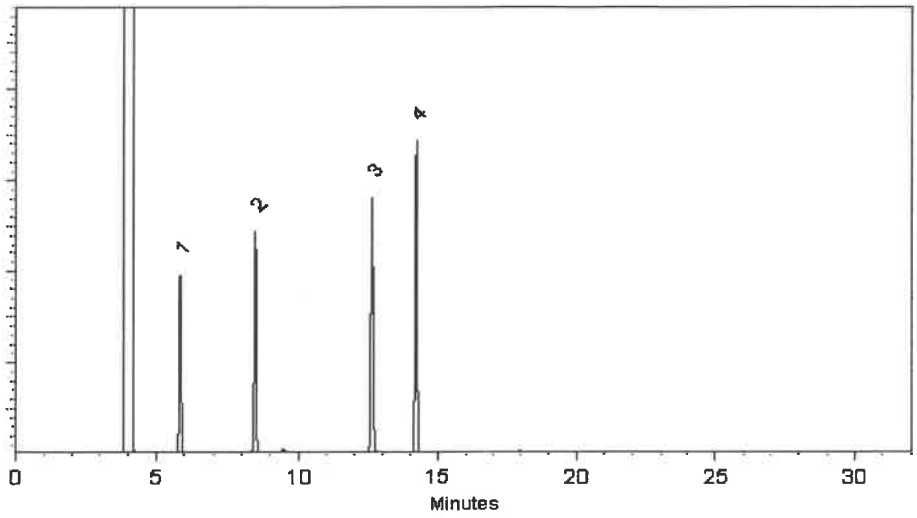
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

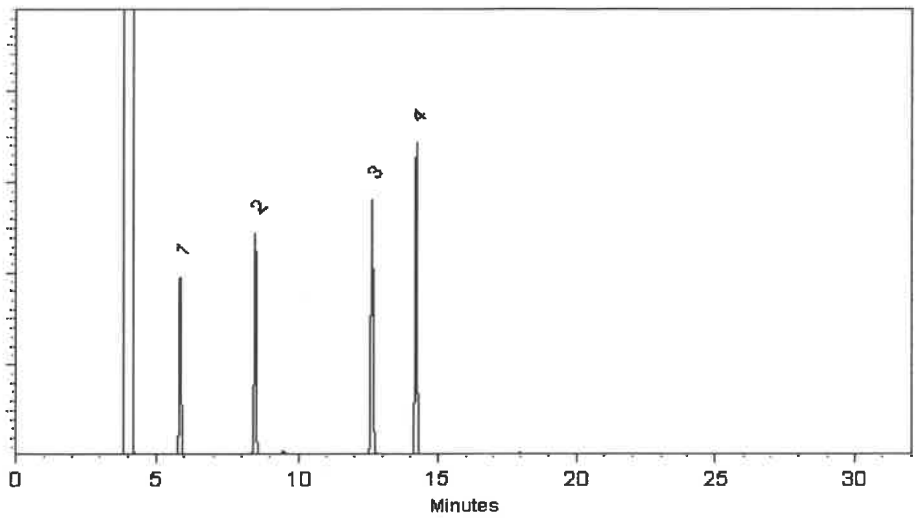
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

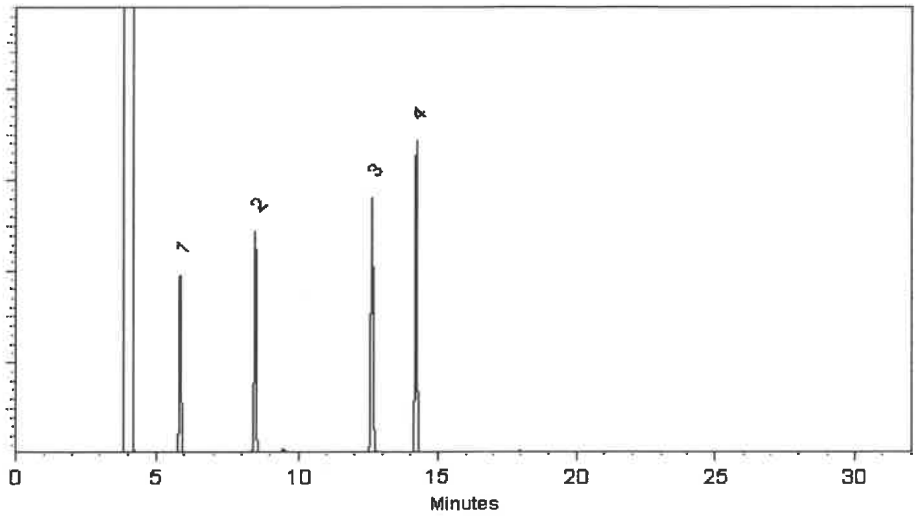
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- 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:

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  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.
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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.)

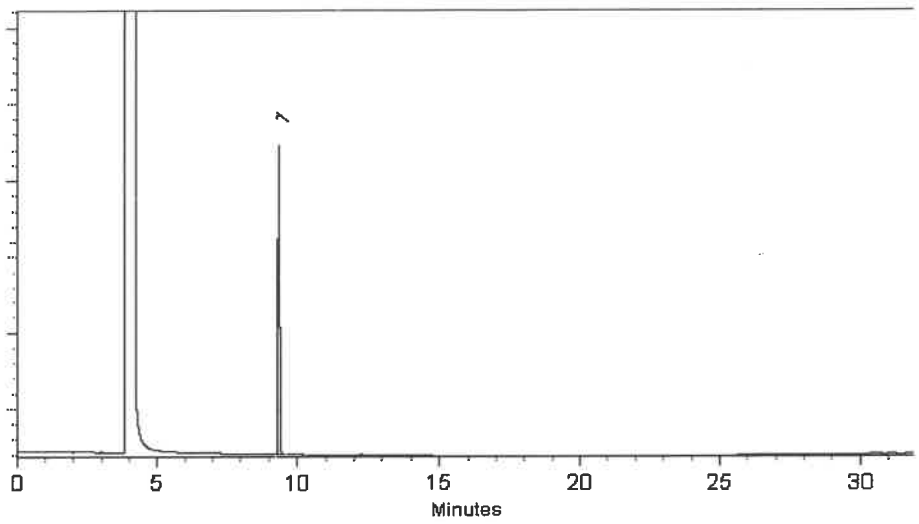
Inj. Temp:
200°C

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.

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CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667
V14676

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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.)

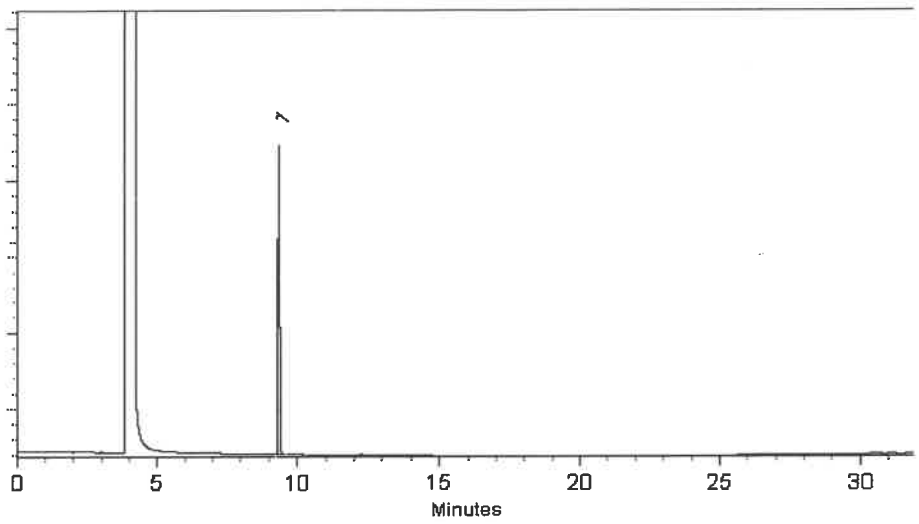
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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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.
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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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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:

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CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

Certificate of Analysis

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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.)

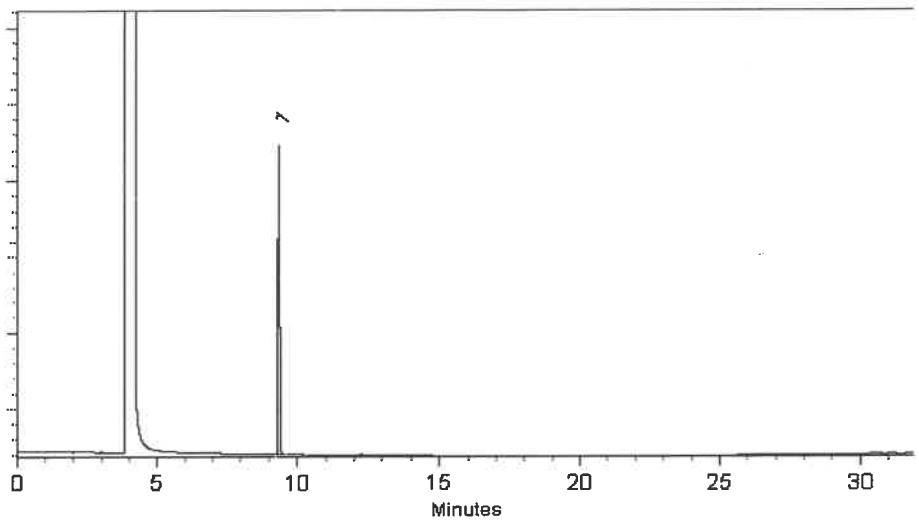
Inj. Temp:
200°C

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.
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- 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:

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  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.
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10 vial.

CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

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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.)

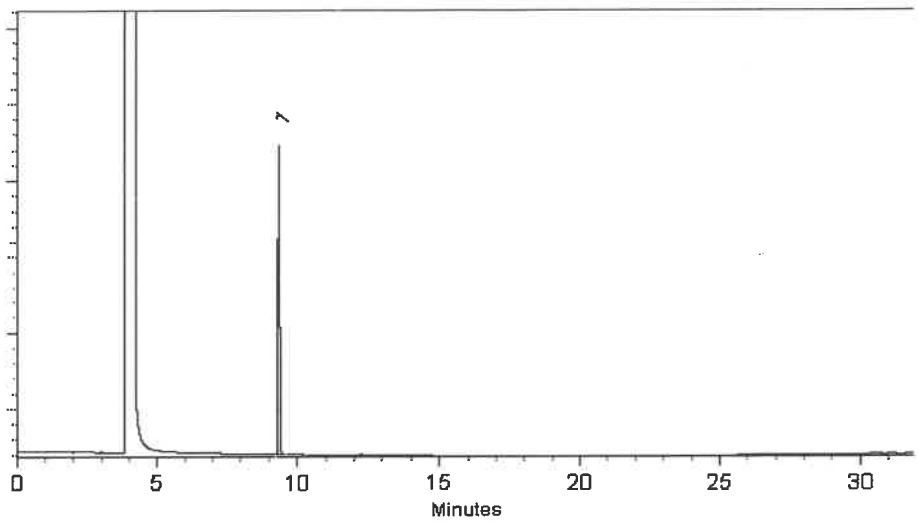
Inj. Temp:
200°C

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.
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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:

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  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:

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Handling Notes:

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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.

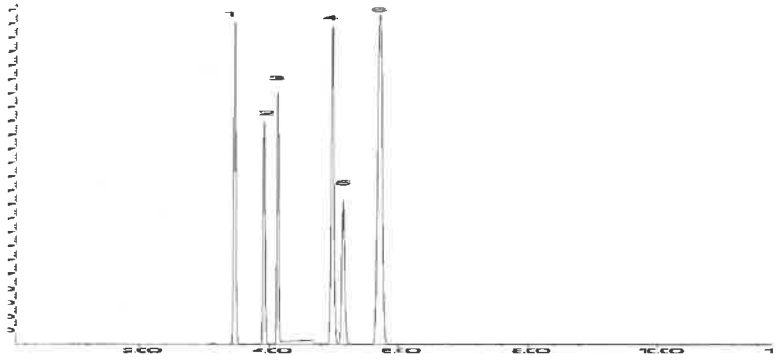
Inj. Temp:
200°C

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:

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- Purity of isomeric compounds is reported as the sum of the isomers.
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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

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V14727 to
V14756

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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.

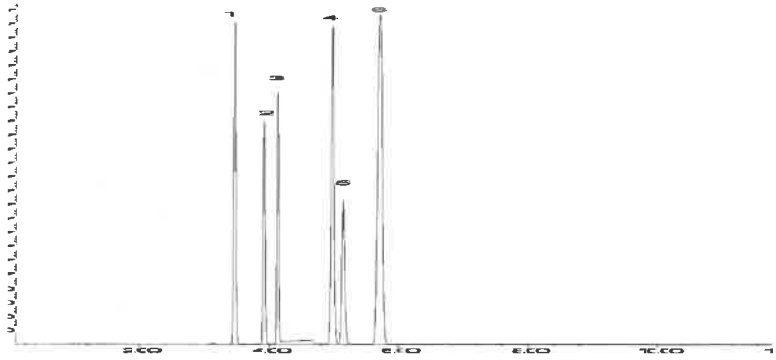
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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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:

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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.

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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.)

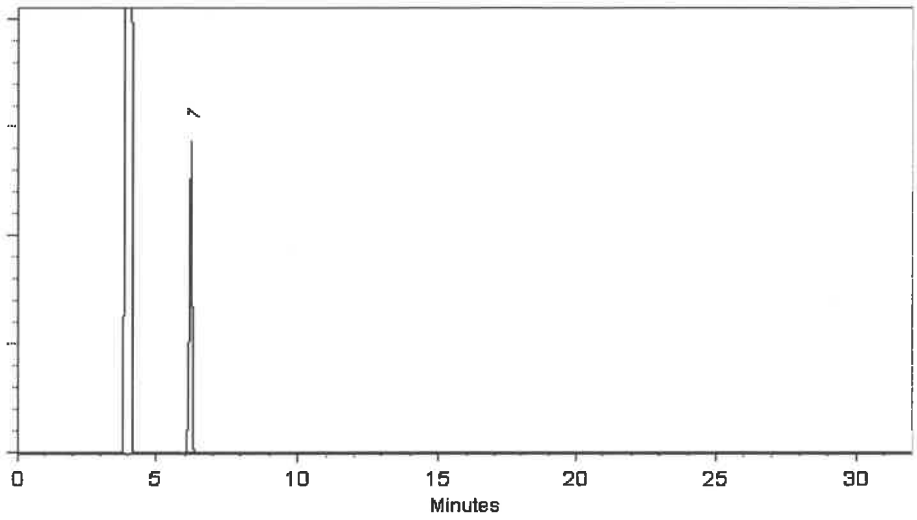
Inj. Temp:
200°C

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.

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Fax: 1-814-353-1309

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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.)

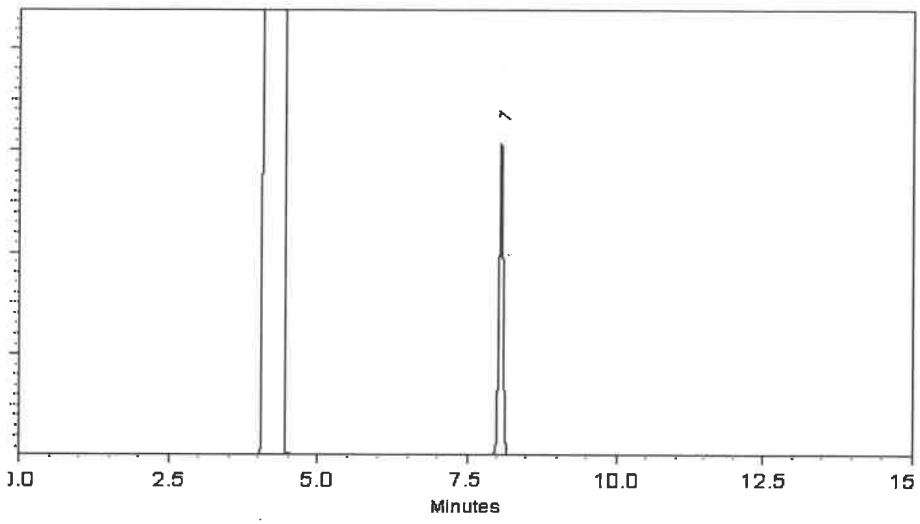
Inj. Temp:
200°C

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.
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Vinyl 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.)

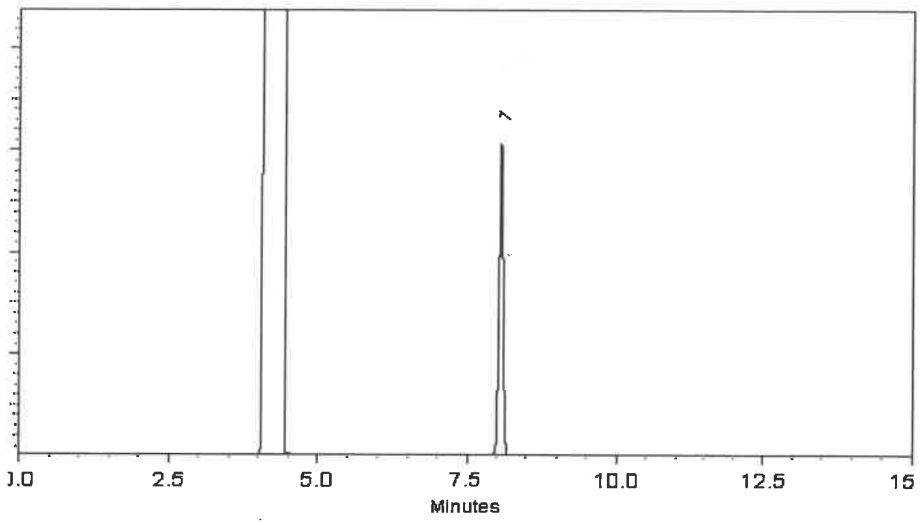
Inj. Temp:
200°C

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.
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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.
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- 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:

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- 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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 07/17/25 5 vial

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 071625
Description: Acrolein

Expiration Date: 081625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 041725Q

V15050 to
V15054

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

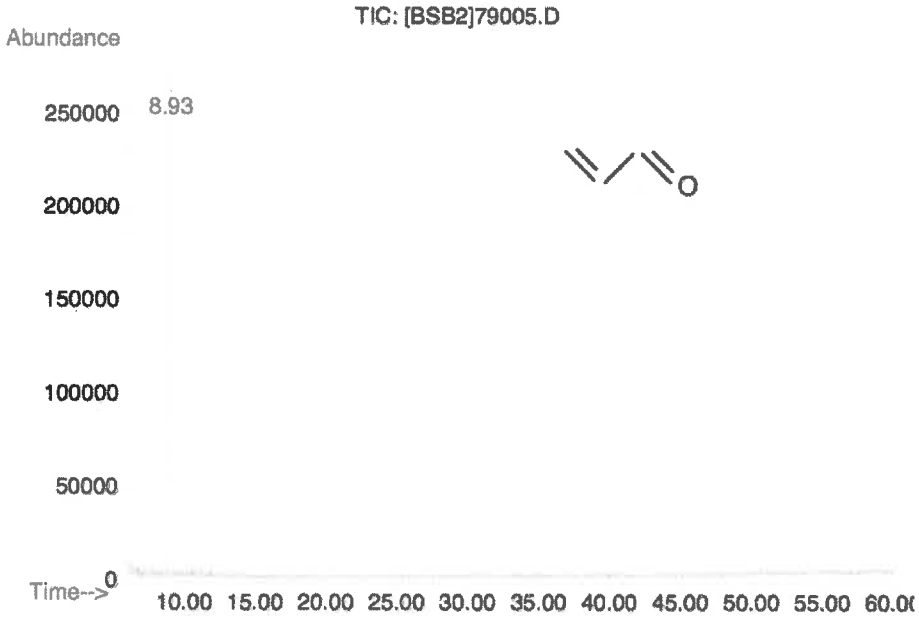
Weight(s) shown below were combined and diluted to (mL): 10.0

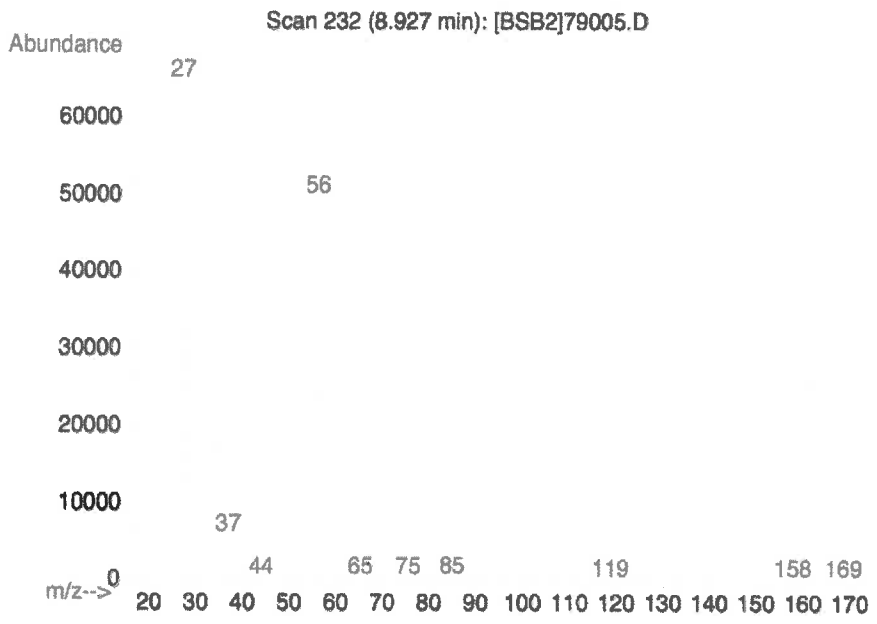
Gabriel Helland 071625
Formulated By: Gabriel Helland DATE

Pedro Rentas 071625
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	0.05181	5014.7	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 07/17/25 5 vial

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 071625
Description: Acrolein

Expiration Date: 081625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 041725Q

V15050 to
V15054 ~~V15056~~

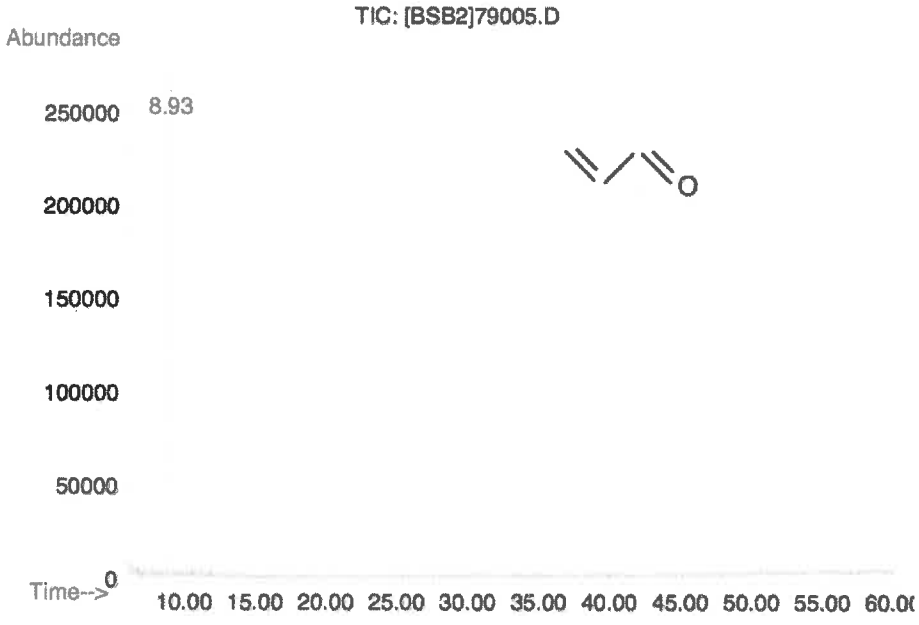
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

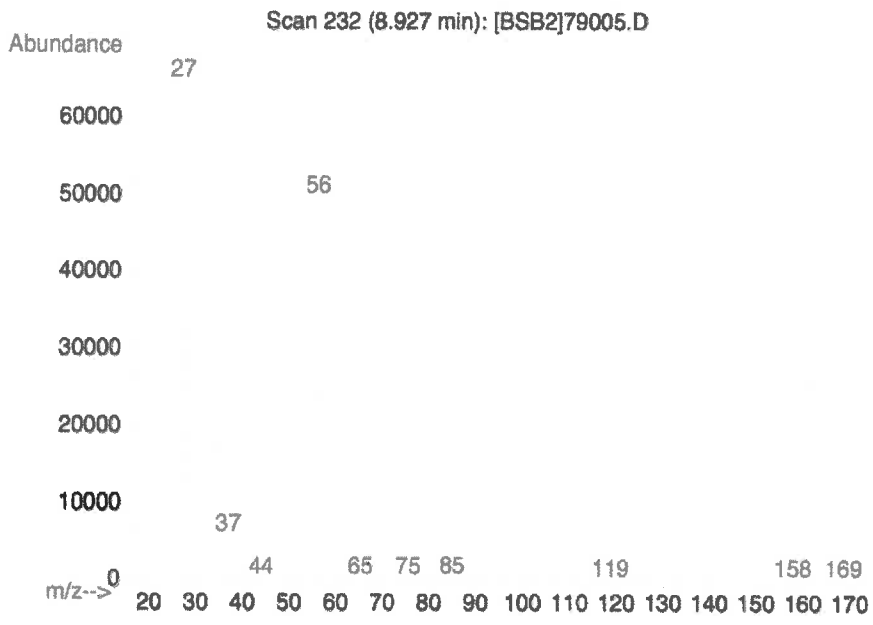
Gabriel Helland 071625
Formulated By: Gabriel Helland DATE

Pedro Rentas 071625
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	0.05181	5014.7	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.





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Rec 07/17/25 5 vial

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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 071625
Description: Acrolein

Expiration Date: 081625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 041725Q

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

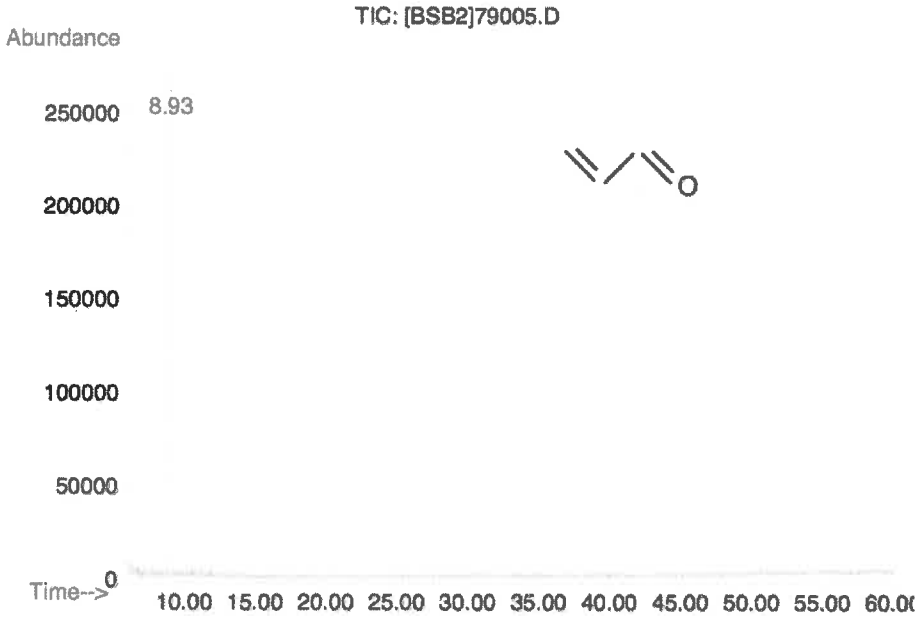
V15050 to
V15054 ~~V15056~~

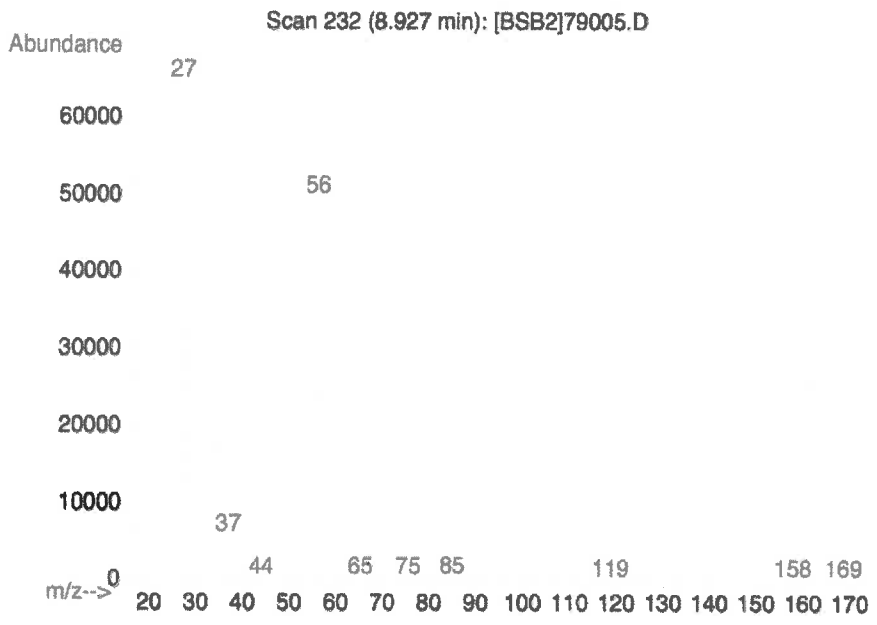
Gabriel Helland 071625
Formulated By: Gabriel Helland DATE

Pedro Rentas 071625
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	0.05181	5014.7	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.





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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081325
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

V15057 to V15061

Expiration Date: 091325
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

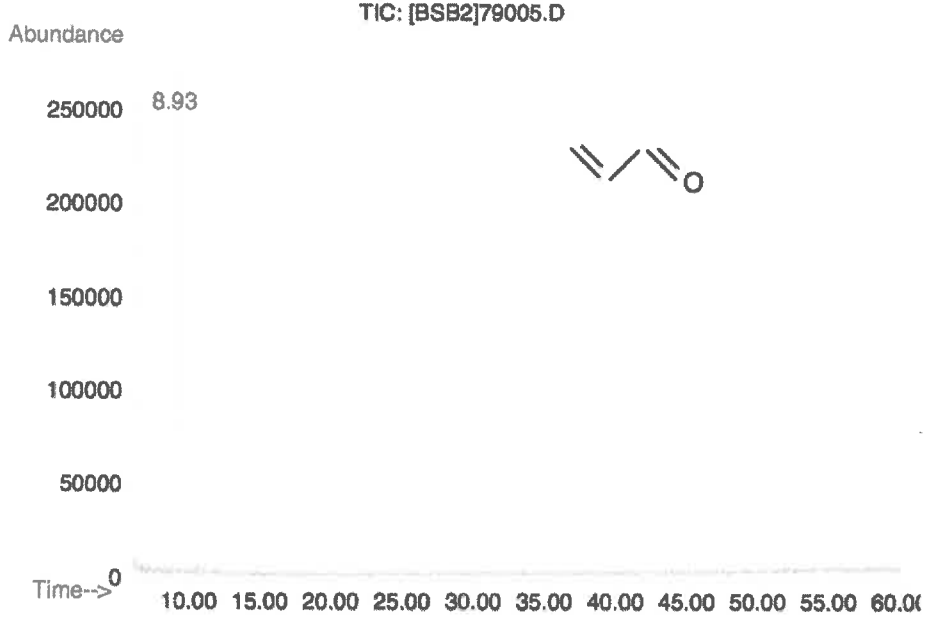
Weight(s) shown below were combined and diluted to (mL): 10.0

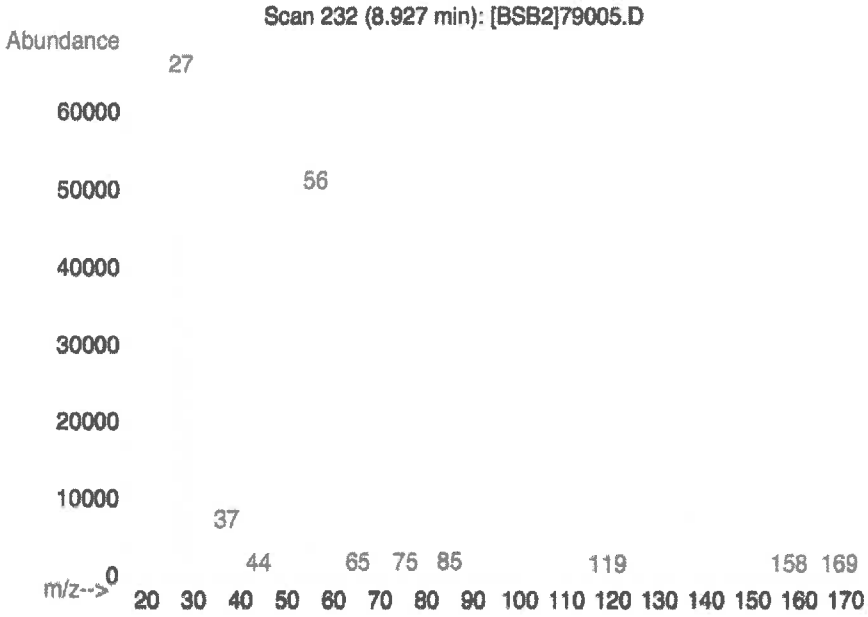
Eli Aliaga 081325
Formulated By: Eli Aliaga DATE

Pedro Rentas 081325
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.





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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081325
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

V15057 to V15061

Expiration Date: 091325
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

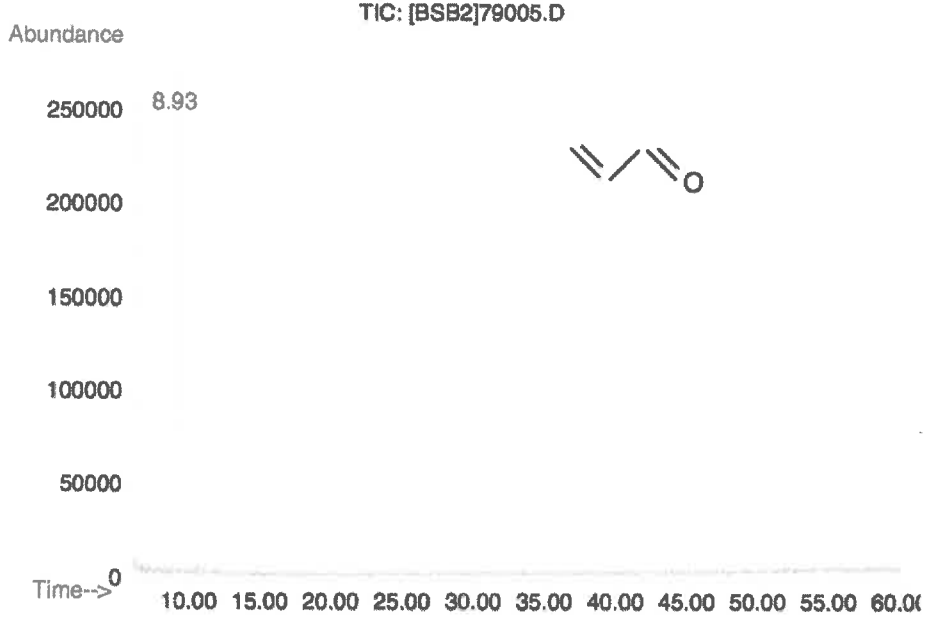
Weight(s) shown below were combined and diluted to (mL): 10.0

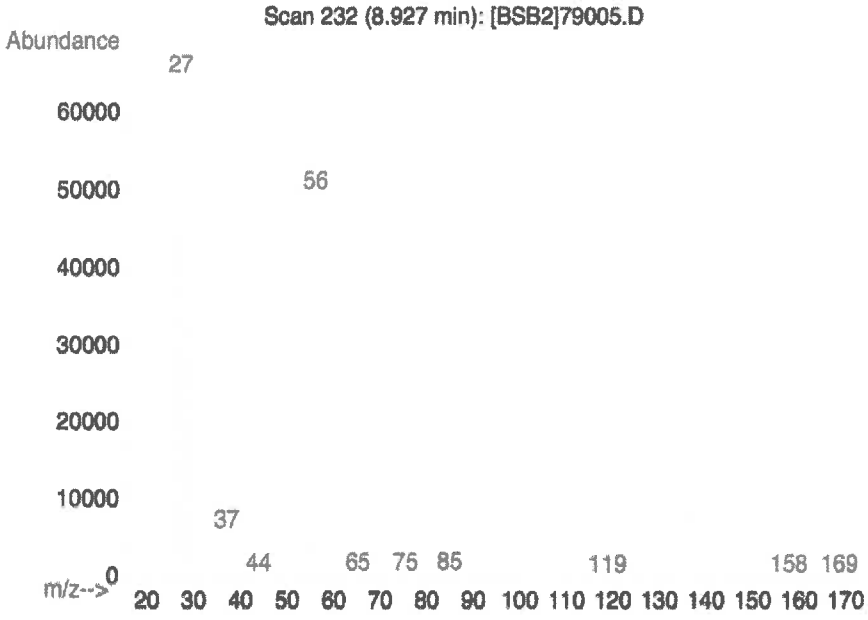
Eli Aliaga 081325
Formulated By: Eli Aliaga DATE

Pedro Rentas 081325
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.





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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081325
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

V15057 to V15061

Expiration Date: 091325
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

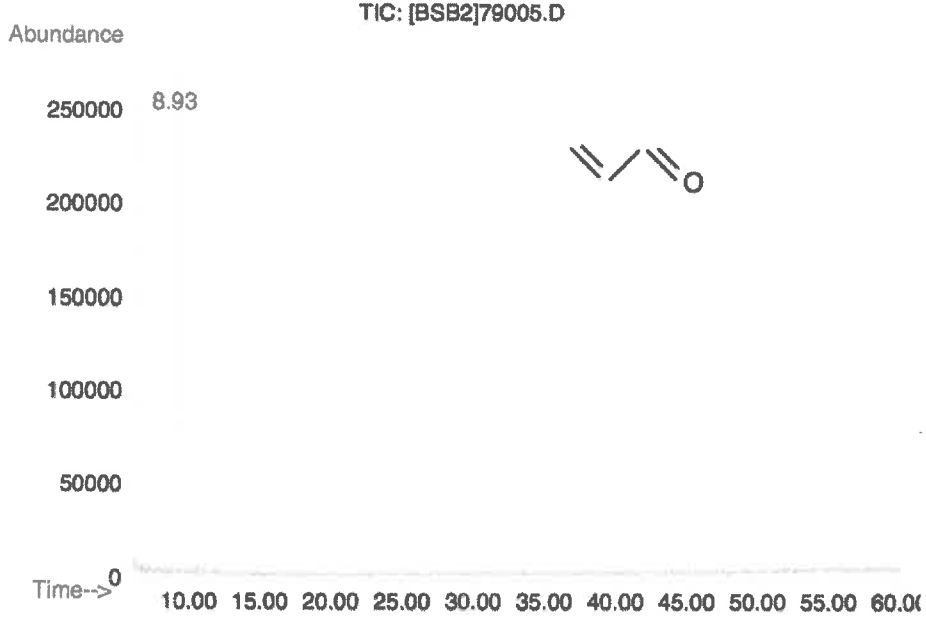
Weight(s) shown below were combined and diluted to (mL): 10.0

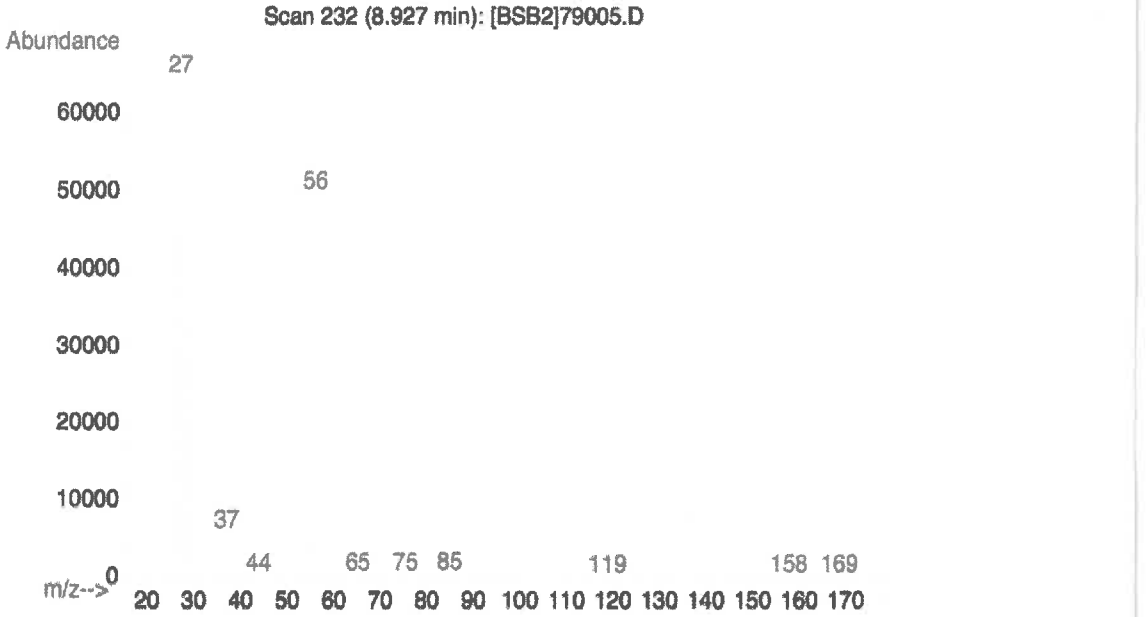
Eli Aliaga 081325
Formulated By: Eli Aliaga DATE

Pedro Rentas 081325
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.





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SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2815
COC Number 2045327

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1: VOC 2: SVOC 3: Metals 4: 5: 6: 7: 8: 9:

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	TW-705R-S	GW		4	8/6/25	11:21	3	2	1								
2.	[illegible]																
3.	TW-10PC-W	GW		4	8/6/25	01:30	3	2	1								
4.	TW-10P-E	GW		4	8/6/25	01:40	3	2	1								
5.	TW-10P-S	GW		4	8/6/25	01:50	3	2	1								
6.	TW 10P-W	GW		4	8/6/25	2:00	3	2	1								
7.	TW-10P-N	GW		4	8/6/25	2:10	3	2	1								
8.	TW-88H-E	GW		4	8/7/25	8:35	3	2	1								
9.	TW-88H-N	GW		4	8/7/25	8:45	3	2	1								
10.	TW-88H-W	GW		4	8/7/25	11:10	3	2	1								

PRESERVATIVES: ← Specify Preservatives — A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1 GMS	6:01	1. 8.8.25
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.5 °C
Comments:

Page _____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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ALLIANCE PROJECT NO.
QUOTE NO. Q2815
COC Number 2045328

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY:
ADDRESS:
CITY STATE: ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

❑ Level 1 (Results Only) ❑ Level 4 (QC + Full Raw Data)
❑ Level 2 (Results + QC) ❑ NJ Reduced ❑ US EPA CLP
❑ Level 3 (Results + QC + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other _____
❑ EDD FORMAT _____

ANALYSIS

1: Voc 2. 8260 3. Methane 4 5 6 7 8 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	TW-88H-S	GW		X	8/7/25	11:10	3	2	1								
2.	TW-22M-W	GW		X	8/8/25	1110	3	2	1	3							
3.	TW-22M-S	GW		X	8/8/25	1123	3	2	1								
4.	TW-22M-E	GW		X	8/8/25	1133	3	2	1								
5.	TW-22M-N	GW		X	8/8/25	1143	3	2	1								
6.																	
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES: ← Specify Preservatives — A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. GMC	6:01	1. 8.8.25
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ☒ COOLER TEMP 3.5 °C
Comments:

Page ____ of

CLIENT: ❑ Hand Delivered ❑ Other

Shipment Complete ❑ YES ❑ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

From: Yazmeen Gomez
Sent: Monday, August 11, 2025 2:55 PM
To: 'Daniel Ligon'
Cc: 'Alfred Smith'; Jordan Hedvat
Subject: RE: Bottleware Order - USACE018-44
Attachments: q2815.pdf; q2814.pdf

Good afternoon,

A few things -

- Below mentions Filtered and Unfiltered for 8 GW samples, however, we only received three unpreserved metals bottles - TW-84SB-E, TW-17M-W, and TW-11M-W.
- 8 samples not listed on the COC were received – TW-17M-E, TW-17M-S, TW-84SB-S, TW-84SB-W, TW-11M-W, TW-11M-E, TW-11M-S, TW-11M-N.
- PCB and PESTICIDE are not mentioned the GW COC's however, I went off the below request and do have PEST and PCB logged for some of the samples.
- Once I sign off the login summaries will be sent to you – please confirm everything looks good, or if anything needs to be updated.

Best Regards,

Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Sent: Friday, August 1, 2025 11:03 AM
To: Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>; Daniel Ligon <DLigon@firstenvironment.com>
Cc: Alfred Smith <asmith@firstenvironment.com>
Subject: RE: Bottleware Order - USACE018-44

Hi Daniel,

Bottle order delivery for today confirmed.

Best Regards,

Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Jordan Hedvat <Jordan.Hedvat@alliancetg.com>
Sent: Friday, August 1, 2025 8:14 AM
To: Daniel Ligon <DLigon@firstenvironment.com>
Cc: Alfred Smith <asmith@firstenvironment.com>; Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Subject: Re: Bottleware Order - USACE018-44

Hi Daniel,

We will process the bottle order for delivery. Do you need TeraCore or Encores for VOC soil? If not we will provide jars for those tests as well. Please reach out if we can help with anything else.

Regards,

Jordan

Jordan Hedvat
Account Executive, Environmental Laboratories
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3144
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Daniel Ligon <DLigon@firstenvironment.com>
Sent: Thursday, July 31, 2025 4:53 PM
To: Jordan Hedvat <Jordan.Hedvat@alliancetg.com>
Cc: Alfred Smith <asmith@firstenvironment.com>
Subject: Bottleware Order - USACE018-44

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Hi Jordan – I have a bottleware order for some sampling we have next week in Long Island, NY. We'd like to have this delivered tomorrow if possible – sorry for the late email. First thing Monday morning would work as well for delivery to our office in Butler. See the following for # of samples we need with the parameters:

- 48x soil VOCs via EPA Method 8260
- 48x soil SVOCs via EPA Method 8270

- 8x soil Pesticides/PCBs via EPA Methods 8081/8082
- 8x soil TAL Metals (filtered and unfiltered)
- 48x groundwater VOCs via EPA Method 8260
- 48x groundwater SVOCs via EPA Method 8270
- 8x groundwater Pesticides/PCBs via EPA Methods 8081/8082
- 8x groundwater TAL Metals (filtered and unfiltered)
- 3 soil, 3 groundwater field duplicates
- 6 field blanks
- Trip blanks in every cooler

Let me know if this can be accommodated. Thanks!

Daniel Ligon
Environmental Specialist

First Environment, Inc.
10 Park Place, Bldg 1A, Suite 504
Butler, NJ 07405
Ph: 973-334-0003 ext. 224
Cell: 973-873-8515
DLigon@firstenvironment.com
www.firstenvironment.com

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2815 FIRS02
Client Name : First Environment, Inc.
Client Contact : Al Smith
Invoice Name : First Environment, Inc.
Invoice Contact : Al Smith

Order Date : 8/11/2025 10:33:09 AM
Project Name : USACE018-44 DOD
Receive DateTime : 8/8/2025 6:01:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2815-01	TW-705R-S	Water	08/06/2025	11:21					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q2815-02	TW-10PC-W	Water	08/06/2025	01:30					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q2815-03	TW-10P-E	Water	08/06/2025	01:40					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q2815-04	TW-10P-S	Water	08/06/2025	01:50					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q2815-05	TW-10P-W	Water	08/06/2025	02:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q2815-06	TW-10P-N	Water	08/06/2025	02:10					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q2815-07	TW-88H-E	Water	08/07/2025	08:35					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q2815-08	TW-88H-N	Water	08/07/2025	08:45					

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Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
Q2815-09	TW-88H-W	Water	08/07/2025	11:10						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
Q2815-10	TW-88H-S	Water	08/07/2025	11:10						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
Q2815-11	TW-22M-W	Water	08/08/2025	11:10						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
Q2815-12	TW-22M-S	Water	08/08/2025	11:23						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
Q2815-13	TW-22M-E	Water	08/08/2025	11:33						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
Q2815-14	TW-22M-N	Water	08/08/2025	11:43						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
Q2815-15	TW-17M-E	Water	08/08/2025	00:00						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		

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Order Date : 8/11/2025 10:33:09 AM
Project Name : USACE018-44 DOD
Receive DateTime : 8/8/2025 6:01:00 PM
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Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2815-16	TW-17M-S	Water	08/08/2025	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q2815-17	TW-84SB-S	Water	08/08/2025	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q2815-18	TW-84SB-W	Water	08/08/2025	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q2815-19	DUP	Water	08/08/2025	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q2815-20	TW-11M-W	Water	08/08/2025	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q2815-21	TW-11M-E	Water	08/08/2025	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q2815-22	TW-11M-S	Water	08/08/2025	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q2815-23	TW-11M-N	Water	08/08/2025	00:00					

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Project Name : USACE018-44 DOD
Receive DateTime : 8/8/2025 6:01:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q2815-24	TB	Water	08/08/2025	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q2815-26	FB	Water	08/08/2025	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinguished By : CJ
Date / Time : 8/11/25 1305

Received By : Sam
Date / Time : 08/11/25 13:05 Rq# 4

Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047055.D
Acq On : 21 Jul 2025 09:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Jul 22 03:35:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.562	168	337975	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.769	114	582229	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	522701	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	266871	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.971	65	4393	1.043	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	2.080%#			
35) Dibromofluoromethane	5.404	113	1613	0.449	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.900%#			
50) Toluene-d8	8.653	98	10718	0.921	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	1.840%#			
62) 4-Bromofluorobenzene	11.085	95	4514	0.900	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	1.800%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.185	85	3490	0.777	ug/l		87
3) Chloromethane	1.307	50	3931	0.885	ug/l	#	86
4) Vinyl Chloride	1.392	62	3909	0.819	ug/l		94
5) Bromomethane	1.630	94	2678	1.033	ug/l		100
6) Chloroethane	1.709	64	3698	1.180	ug/l		95
7) Trichlorofluoromethane	1.910	101	5767	0.810	ug/l		91
8) Diethyl Ether	2.154	74	2227	0.887	ug/l		93
9) 1,1,2-Trichlorotrifluo...	2.349	101	3769	0.879	ug/l		98
10) Methyl Iodide	2.471	142	3182	0.728	ug/l		99
11) Tert butyl alcohol	2.959	59	3574	Below Cal		#	72
12) 1,1-Dichloroethene	2.343	96	3739	0.880	ug/l		94
13) Acrolein	2.252	56	3349	3.694	ug/l		92
14) Allyl chloride	2.684	41	6361	0.829	ug/l		86
15) Acrylonitrile	3.087	53	7013	3.493	ug/l		86
16) Acetone	2.392	43	9071	5.378	ug/l	#	88
17) Carbon Disulfide	2.532	76	11039	0.898	ug/l	#	91
18) Methyl Acetate	2.715	43	4440	0.991	ug/l	#	68
19) Methyl tert-butyl Ether	3.130	73	11087	0.858	ug/l		98
20) Methylene Chloride	2.800	84	4289	0.924	ug/l	#	91
21) trans-1,2-Dichloroethene	3.111	96	3590	0.826	ug/l	#	92
22) Diisopropyl ether	3.776	45	12222	0.828	ug/l		92
23) Vinyl Acetate	3.739	43	45048	3.805	ug/l		100
24) 1,1-Dichloroethane	3.629	63	7054	0.859	ug/l	#	94
25) 2-Butanone	4.617	43	10725	4.367	ug/l		99
26) 2,2-Dichloropropane	4.495	77	5905	0.929	ug/l		88
27) cis-1,2-Dichloroethene	4.501	96	4527	0.880	ug/l		84
28) Bromochloromethane	4.916	49	3092	0.819	ug/l	#	98
29) Tetrahydrofuran	5.032	42	6164	3.890	ug/l	#	87
30) Chloroform	5.111	83	7976	0.955	ug/l		86
31) Cyclohexane	5.483	56	6563	0.834	ug/l		96
32) 1,1,1-Trichloroethane	5.397	97	6496	0.895	ug/l	#	51
36) 1,1-Dichloropropene	5.708	75	6705	1.094	ug/l	#	87
37) Ethyl Acetate	4.751	43	3241	0.600	ug/l	#	71
38) Carbon Tetrachloride	5.696	117	6120	0.936	ug/l		96
39) Methylcyclohexane	7.379	83	6794	0.888	ug/l		90
40) Benzene	6.050	78	15450	0.871	ug/l		91

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047055.D
Acq On : 21 Jul 2025 09:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Jul 22 03:35:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.971	41	2166	0.734 ug/l #	74
42) 1,2-Dichloroethane	6.105	62	5449	0.872 ug/l	98
43) Isopropyl Acetate	6.367	43	6134	0.697 ug/l #	94
44) Trichloroethene	7.147	130	4075	0.896 ug/l	62
45) 1,2-Dichloropropane	7.440	63	3895	0.877 ug/l	93
46) Dibromomethane	7.592	93	2372	0.762 ug/l	88
47) Bromodichloromethane	7.830	83	5749	0.867 ug/l #	87
48) Methyl methacrylate	7.714	41	2771	0.578 ug/l	94
49) 1,4-Dioxane	7.684	88	542	9.937 ug/l #	44
51) 4-Methyl-2-Pentanone	8.580	43	21616	4.131 ug/l	95
52) Toluene	8.726	92	8872	0.814 ug/l	96
53) t-1,3-Dichloropropene	8.994	75	4993	0.798 ug/l	93
54) cis-1,3-Dichloropropene	8.379	75	5149	0.751 ug/l #	73
55) 1,1,2-Trichloroethane	9.153	97	3490	0.853 ug/l #	88
56) Ethyl methacrylate	9.128	69	3978	0.657 ug/l	91
57) 1,3-Dichloropropane	9.311	76	6170	0.868 ug/l #	88
58) 2-Chloroethyl Vinyl ether	8.251	63	11010	3.268 ug/l	98
59) 2-Hexanone	9.439	43	11200	3.240 ug/l	87
60) Dibromochloromethane	9.525	129	3998	0.834 ug/l	91
61) 1,2-Dibromoethane	9.616	107	3885	0.909 ug/l	98
64) Tetrachloroethene	9.275	164	3363	0.892 ug/l #	90
65) Chlorobenzene	10.080	112	10754	0.878 ug/l #	80
66) 1,1,1,2-Tetrachloroethane	10.165	131	3699	0.897 ug/l #	64
67) Ethyl Benzene	10.195	91	18959	0.886 ug/l	100
68) m/p-Xylenes	10.299	106	14496	1.809 ug/l	94
69) o-Xylene	10.640	106	6125	0.804 ug/l	91
70) Styrene	10.659	104	10704	0.819 ug/l	93
71) Bromoform	10.799	173	2687	0.858 ug/l #	97
73) Isopropylbenzene	10.964	105	16971	0.806 ug/l	100
74) N-amyl acetate	10.848	43	4913	0.585 ug/l #	89
75) 1,1,2,2-Tetrachloroethane	11.213	83	5223	0.868 ug/l	96
76) 1,2,3-Trichloropropane	11.244	75	5532	1.120 ug/l	88
77) Bromobenzene	11.201	156	4251	0.842 ug/l	94
78) n-propylbenzene	11.305	91	20259	0.805 ug/l	99
79) 2-Chlorotoluene	11.366	91	12959	0.862 ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	14083	0.810 ug/l	98
81) trans-1,4-Dichloro-2-b...	11.024	75	1181	0.616 ug/l #	88
82) 4-Chlorotoluene	11.457	91	14521	0.827 ug/l	97
83) tert-Butylbenzene	11.713	119	14652	0.839 ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	13354	0.770 ug/l	98
85) sec-Butylbenzene	11.890	105	17765	0.814 ug/l	95
86) p-Isopropyltoluene	12.006	119	14016	0.775 ug/l	89
87) 1,3-Dichlorobenzene	11.969	146	8335	0.869 ug/l	97
88) 1,4-Dichlorobenzene	11.969	146	8335	0.857 ug/l	95
89) n-Butylbenzene	12.329	91	14116	0.832 ug/l	95
90) Hexachloroethane	12.536	117	2772	0.857 ug/l	90
91) 1,2-Dichlorobenzene	12.335	146	8184	0.892 ug/l	95
92) 1,2-Dibromo-3-Chloropr...	12.945	75	749	0.649 ug/l	92
93) 1,2,4-Trichlorobenzene	13.591	180	4906	0.810 ug/l	98
94) Hexachlorobutadiene	13.725	225	1785	0.866 ug/l	98
95) Naphthalene	13.780	128	12647	0.712 ug/l	97
96) 1,2,3-Trichlorobenzene	13.963	180	4936	0.846 ug/l	95

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047055.D
Acq On : 21 Jul 2025 09:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Jul 22 03:35:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

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

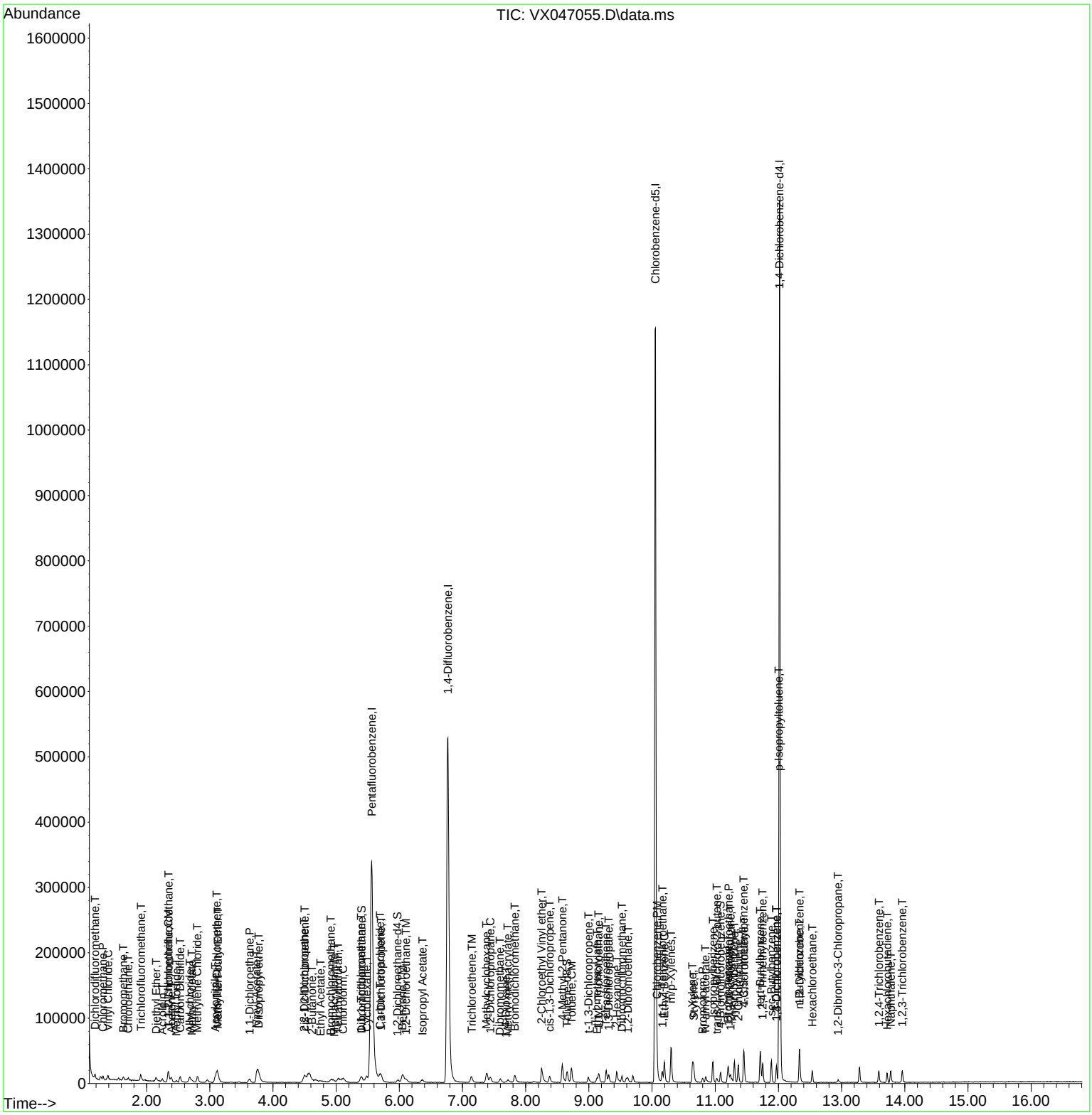
(#) = qualifier out of range (m) = manual integration (+) = signals summed

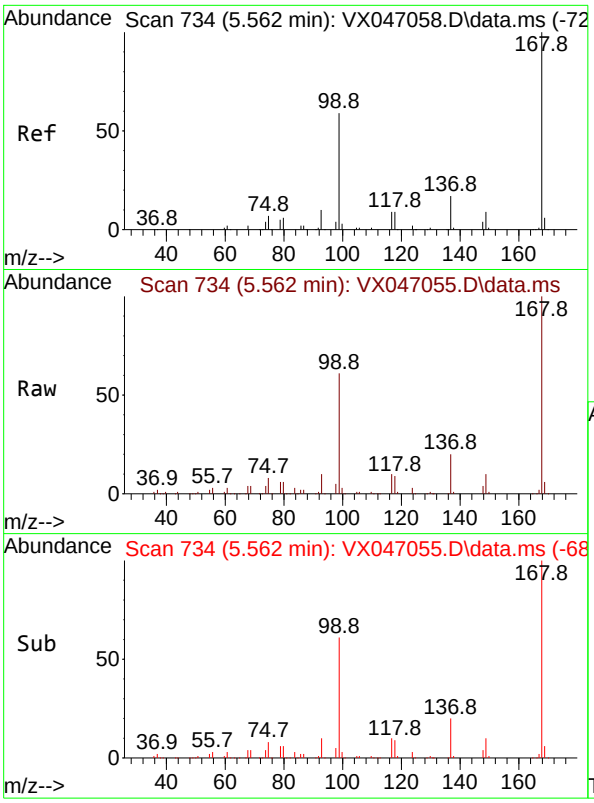
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047055.D
Acq On : 21 Jul 2025 09:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Jul 22 03:35:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration



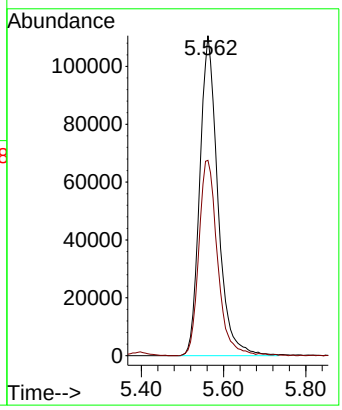


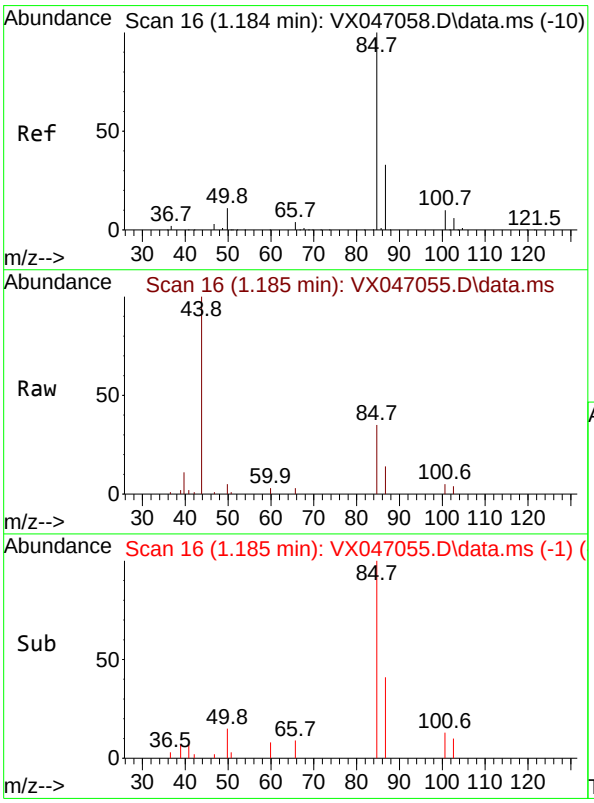
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 337975

Ion	Ratio	Lower	Upper
168	100		
99	61.0	48.0	72.0

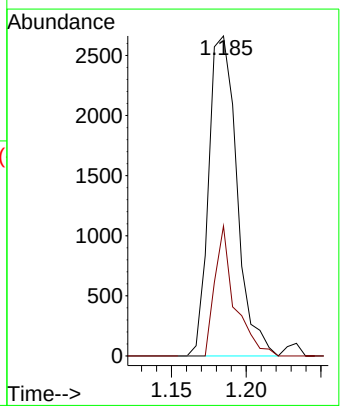


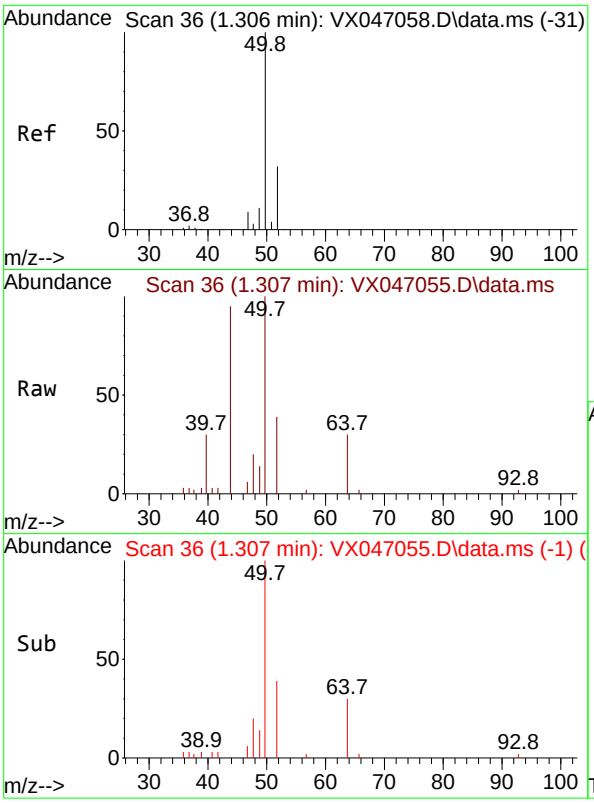


#2
Dichlorodifluoromethane
Concen: 0.777 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 85 Resp: 3490

Ion	Ratio	Lower	Upper
85	100		
87	40.6	16.6	49.8



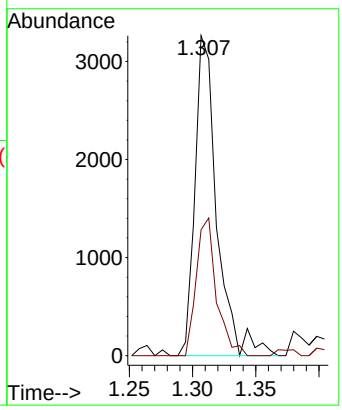


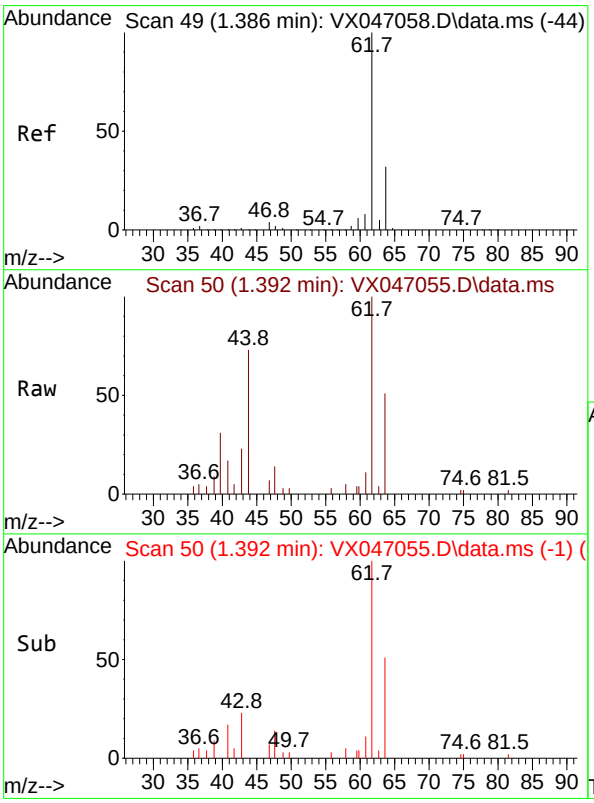
#3
Chloromethane
Concen: 0.885 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 3931

Ion	Ratio	Lower	Upper
50	100		
52	39.4	25.4	38.2#

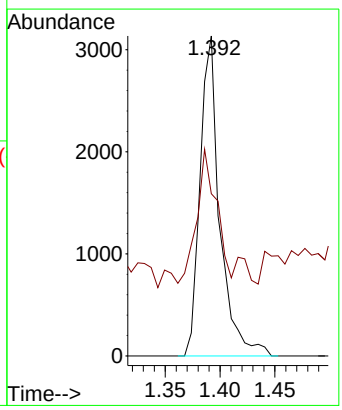


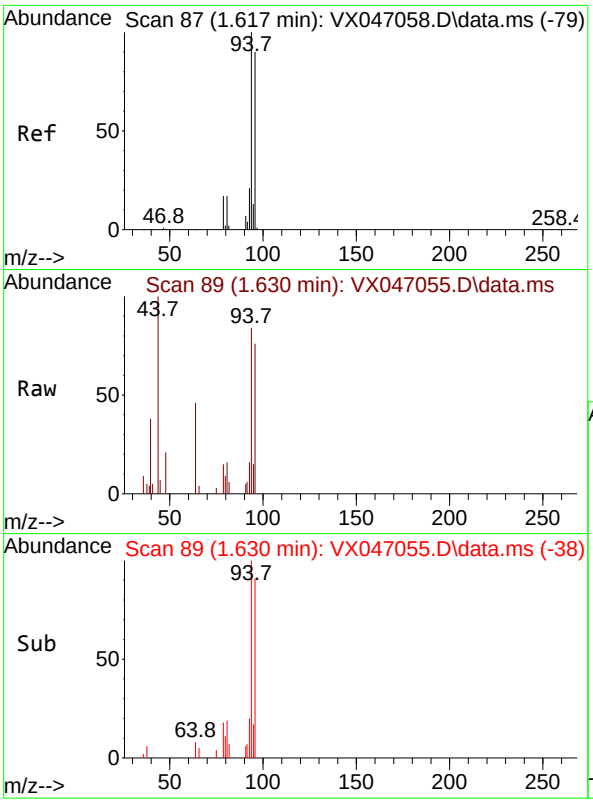


#4
Vinyl Chloride
Concen: 0.819 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 62 Resp: 3909

Ion	Ratio	Lower	Upper
62	100		
64	28.0	25.2	37.8



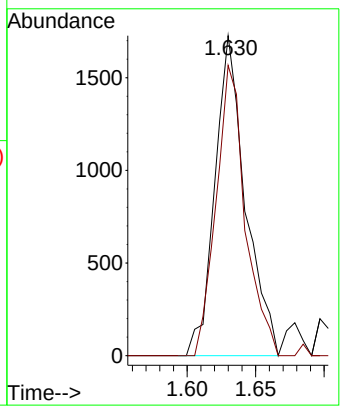


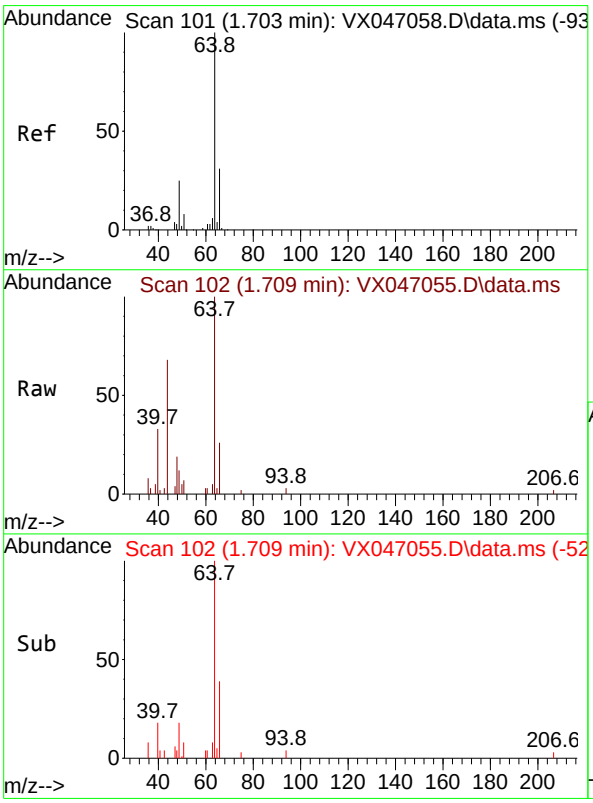
#5
Bromomethane
Concen: 1.033 ug/l
RT: 1.630 min Scan# 8
Delta R.T. 0.013 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 2678

Ion	Ratio	Lower	Upper
94	100		
96	90.7	72.3	108.5

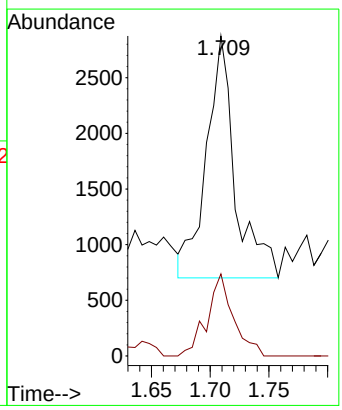


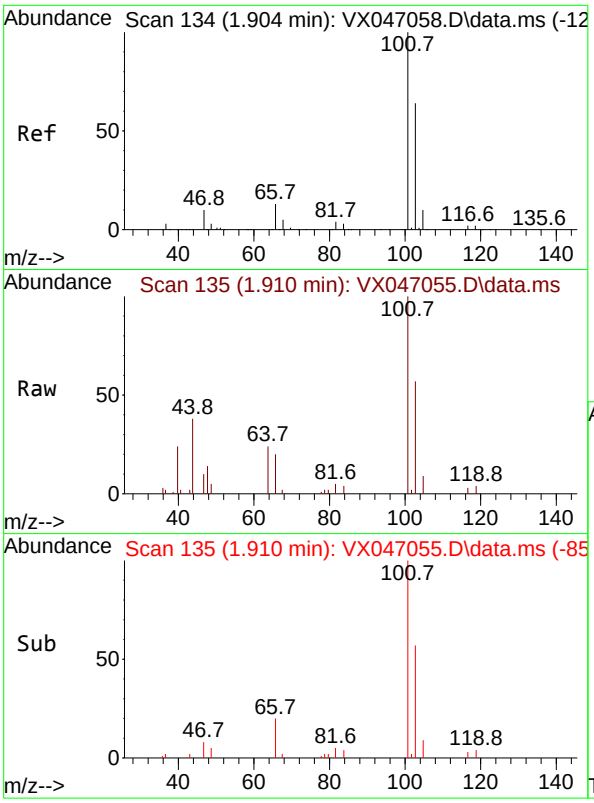


#6
Chloroethane
Concen: 1.180 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 64 Resp: 3698

Ion	Ratio	Lower	Upper
64	100		
66	34.0	25.0	37.6



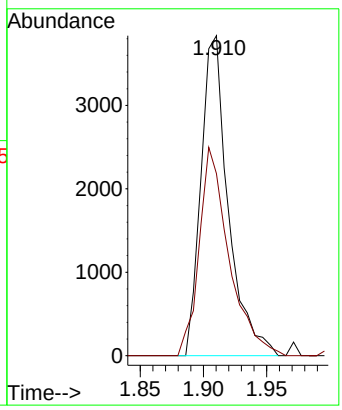


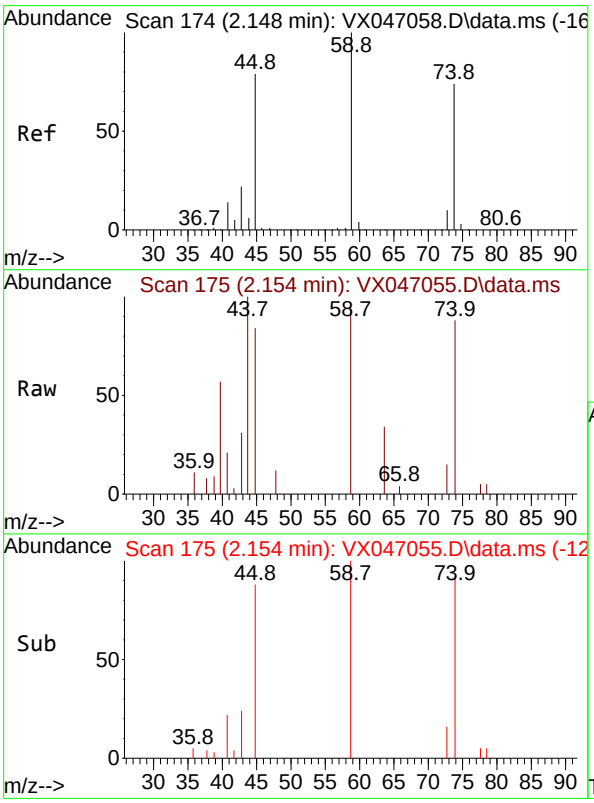
#7
Trichlorofluoromethane
Concen: 0.810 ug/l
RT: 1.910 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 5767

Ion	Ratio	Lower	Upper
101	100		
103	56.9	50.9	76.3

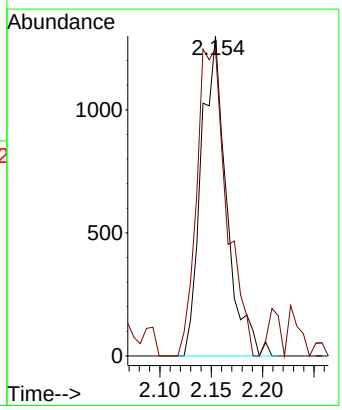


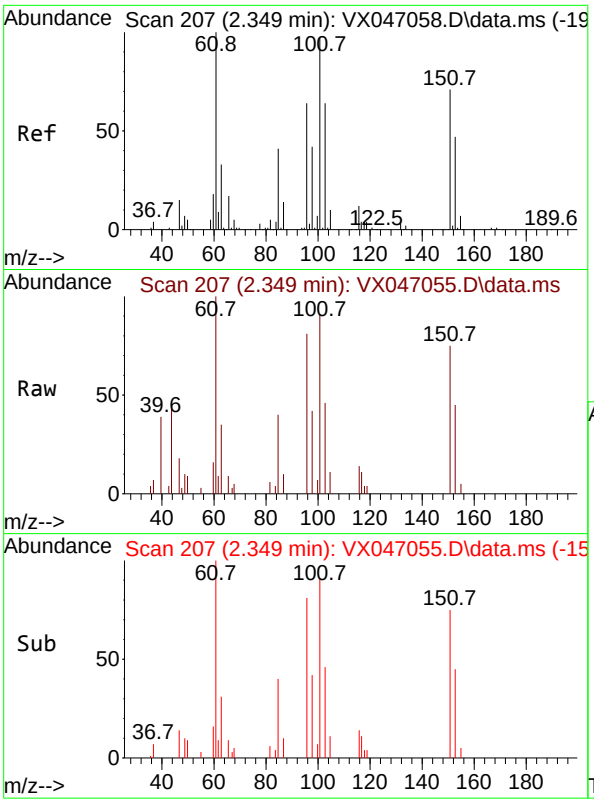


#8
Diethyl Ether
Concen: 0.887 ug/l
RT: 2.154 min Scan# 175
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 74 Resp: 2227

Ion	Ratio	Lower	Upper
74	100		
45	113.7	53.0	159.0



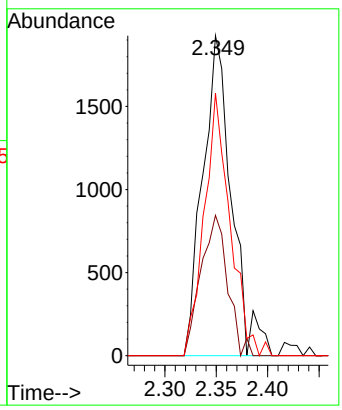


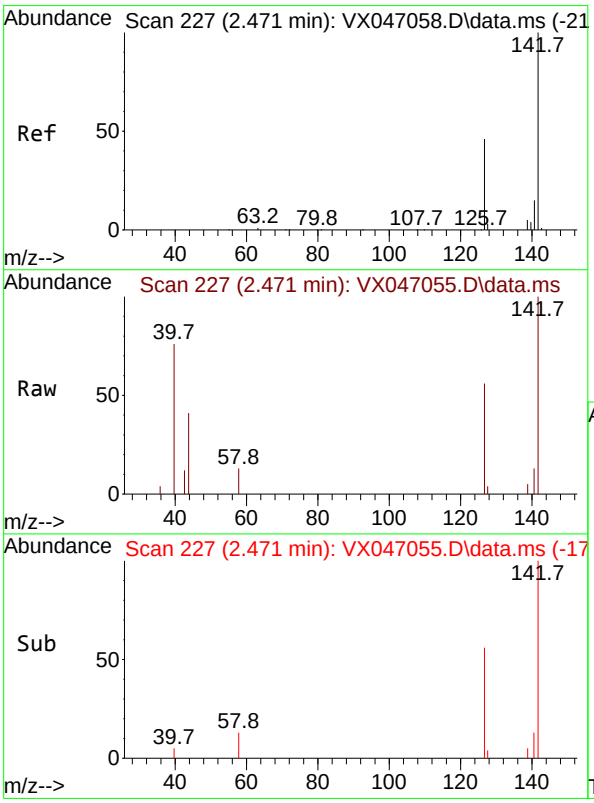
#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.879 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 3769

Ion	Ratio	Lower	Upper
101	100		
85	40.5	35.4	53.0
151	73.5	59.2	88.8

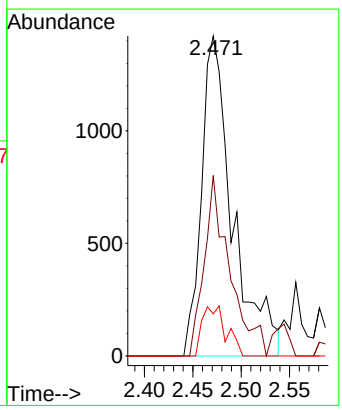


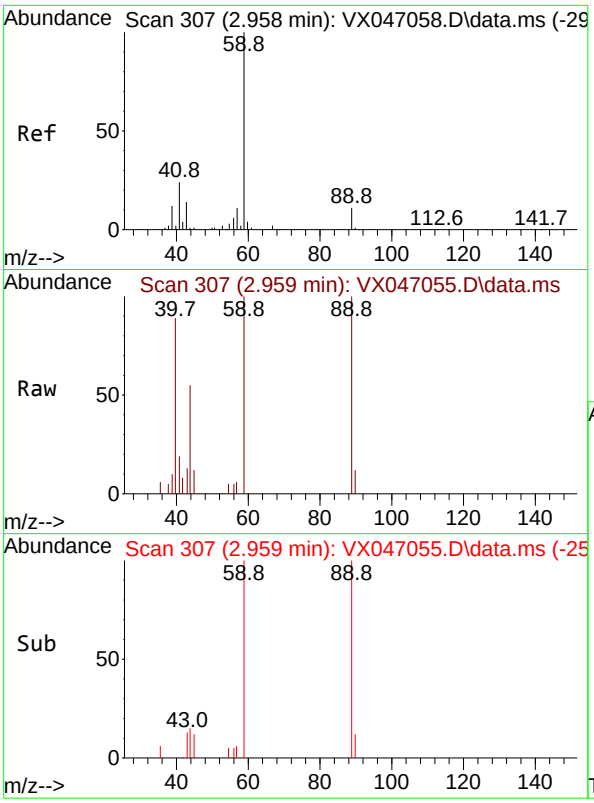


#10
Methyl Iodide
Concen: 0.728 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:142 Resp: 3182

Ion	Ratio	Lower	Upper
142	100		
127	46.1	36.6	54.8
141	11.9	10.9	16.3



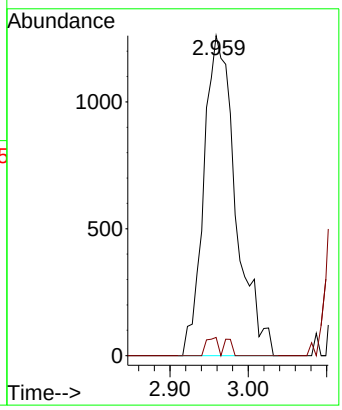


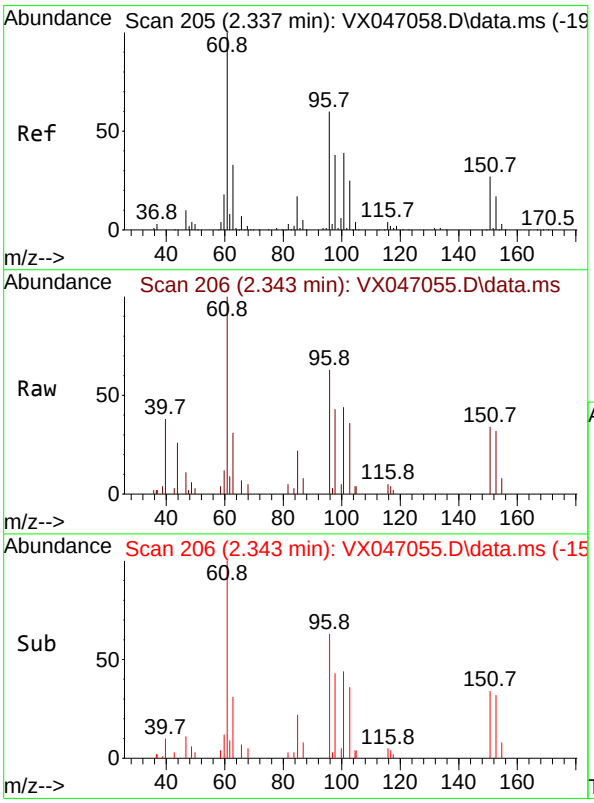
#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.959 min Scan# 3
Delta R.T. 0.001 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 3574

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.5	12.7#

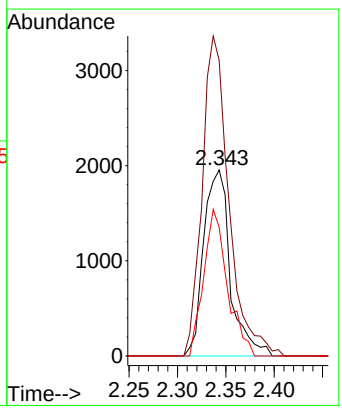


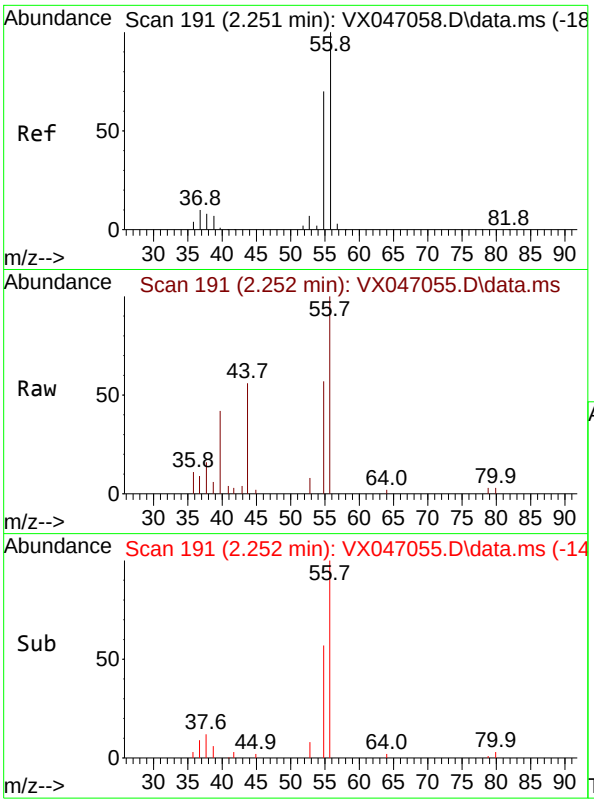


#12
1,1-Dichloroethene
Concen: 0.880 ug/l
RT: 2.343 min Scan# 206
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 96 Resp: 3739

Ion	Ratio	Lower	Upper
96	100		
61	159.0	132.6	198.8
98	69.1	50.2	75.4



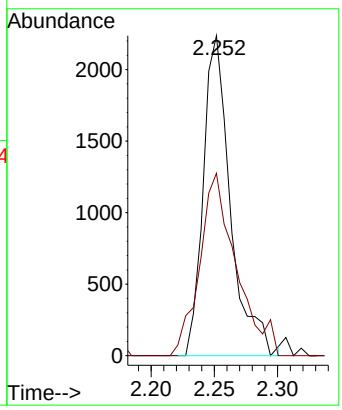


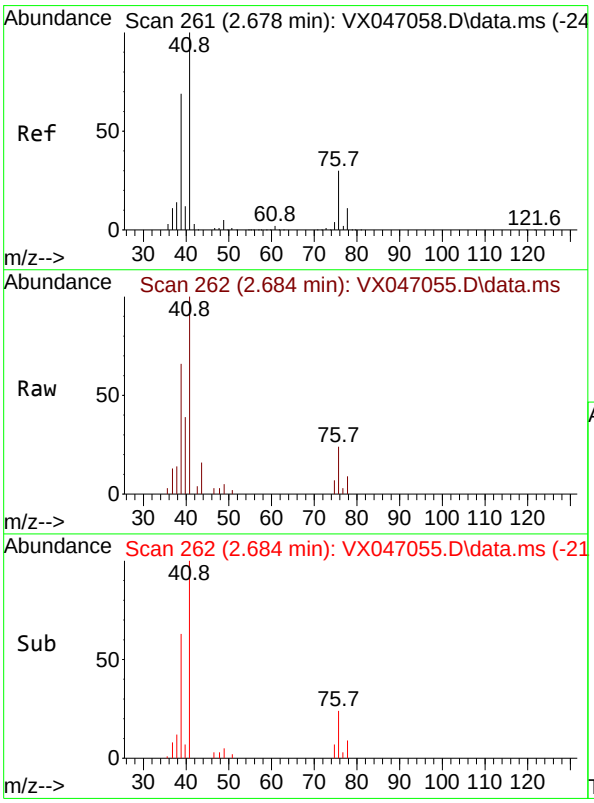
#13
Acrolein
Concen: 3.694 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 3349

Ion	Ratio	Lower	Upper
56	100		
55	76.5	55.7	83.5

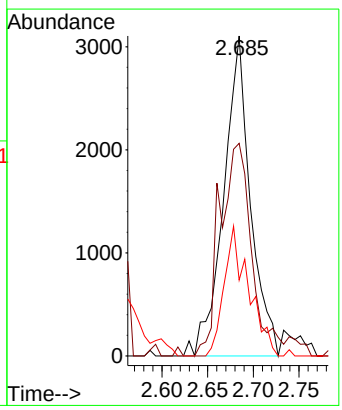


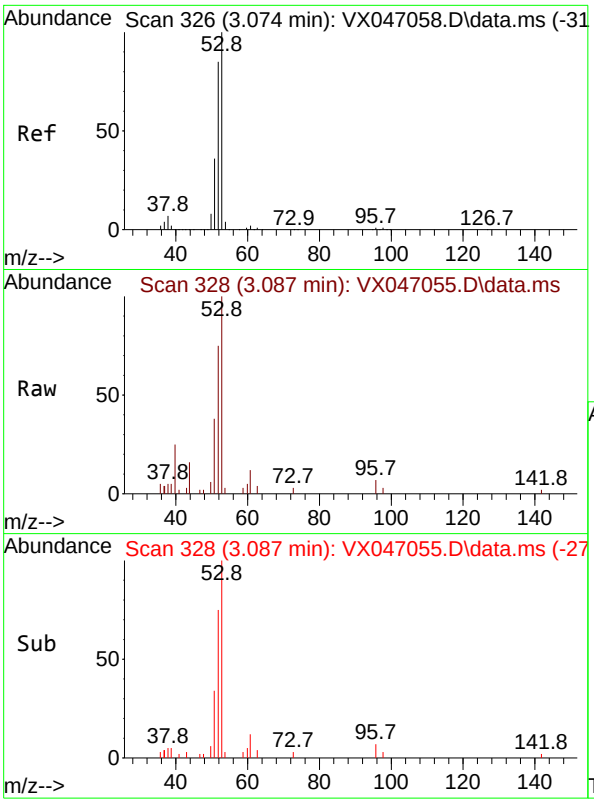


#14
Allyl chloride
Concen: 0.829 ug/l
RT: 2.684 min Scan# 262
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 41 Resp: 6361

Ion	Ratio	Lower	Upper
41	100		
39	78.3	52.6	78.8
76	37.1	25.7	38.5



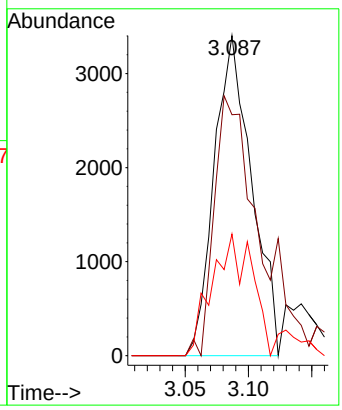


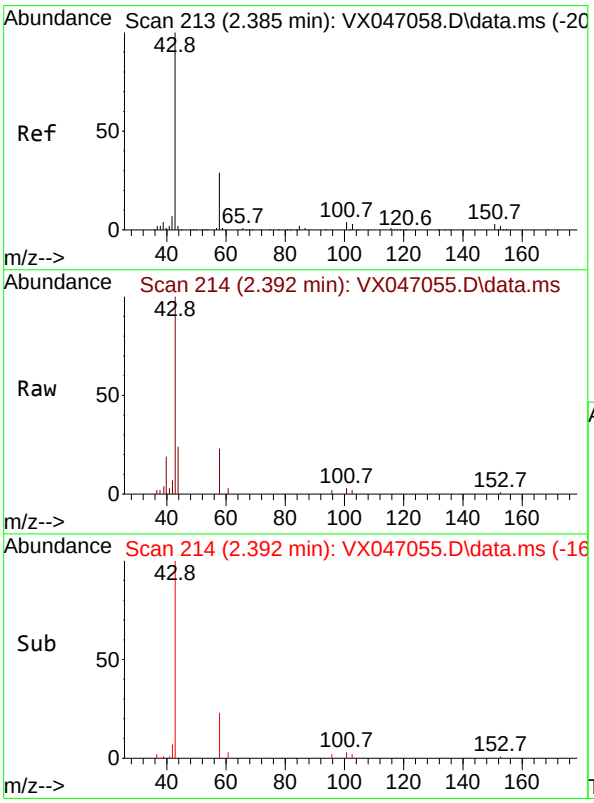
#15
Acrylonitrile
Concen: 3.493 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.013 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 53 Resp: 7013

Ion	Ratio	Lower	Upper
53	100		
52	96.5	65.7	98.5
51	40.6	28.8	43.2

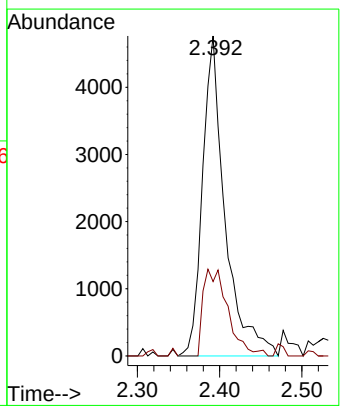


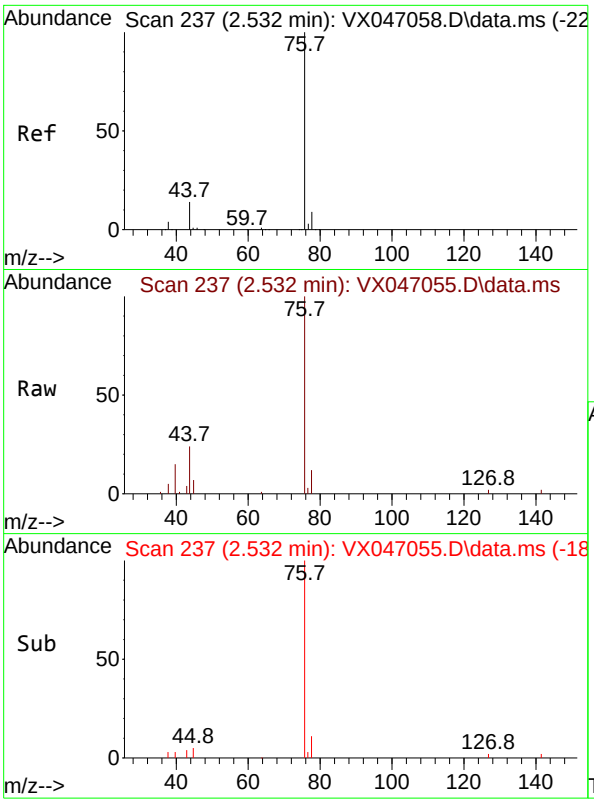


#16
Acetone
Concen: 5.378 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 43 Resp: 9071

Ion	Ratio	Lower	Upper
43	100		
58	23.3	24.0	36.0#



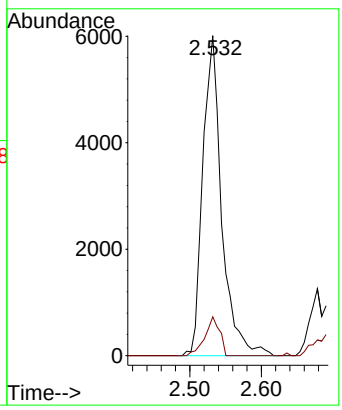


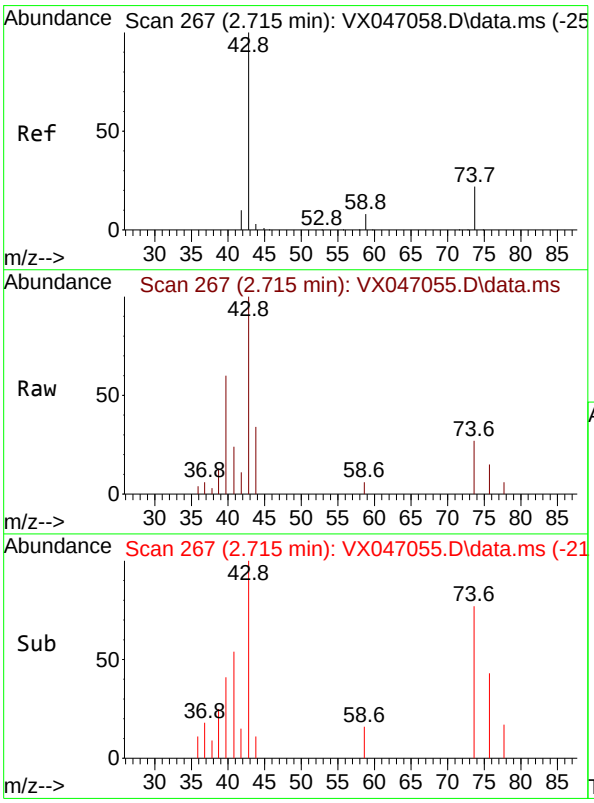
#17
Carbon Disulfide
Concen: 0.898 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 11039

Ion	Ratio	Lower	Upper
76	100		
78	11.8	7.0	10.4#

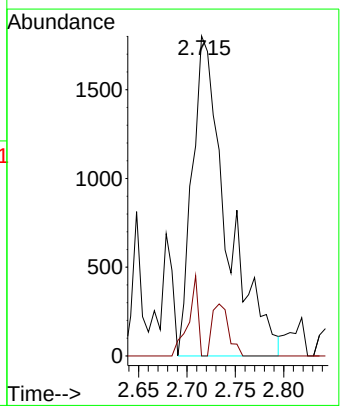


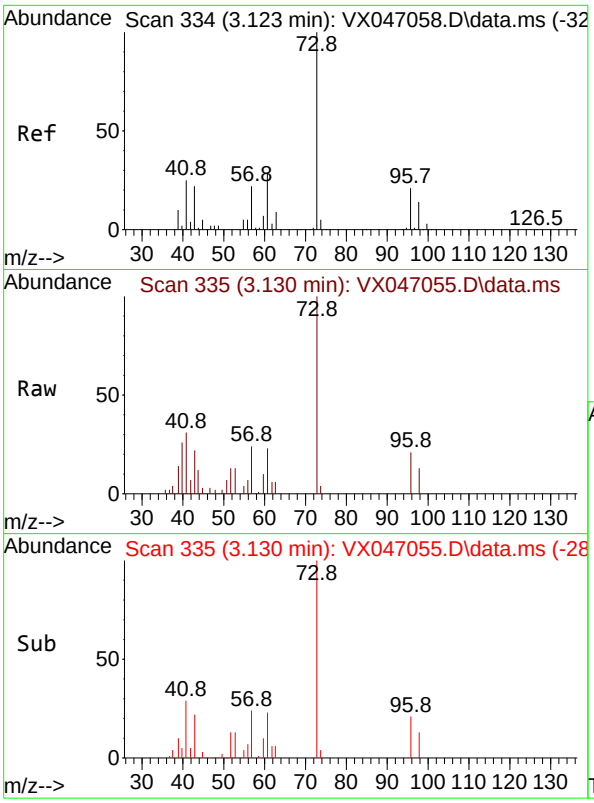


#18
Methyl Acetate
Concen: 0.991 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 43 Resp: 4440

Ion	Ratio	Lower	Upper
43	100		
74	7.0	17.7	26.5#



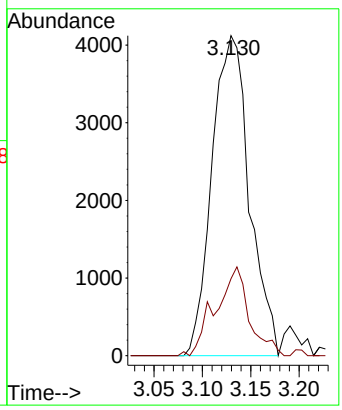


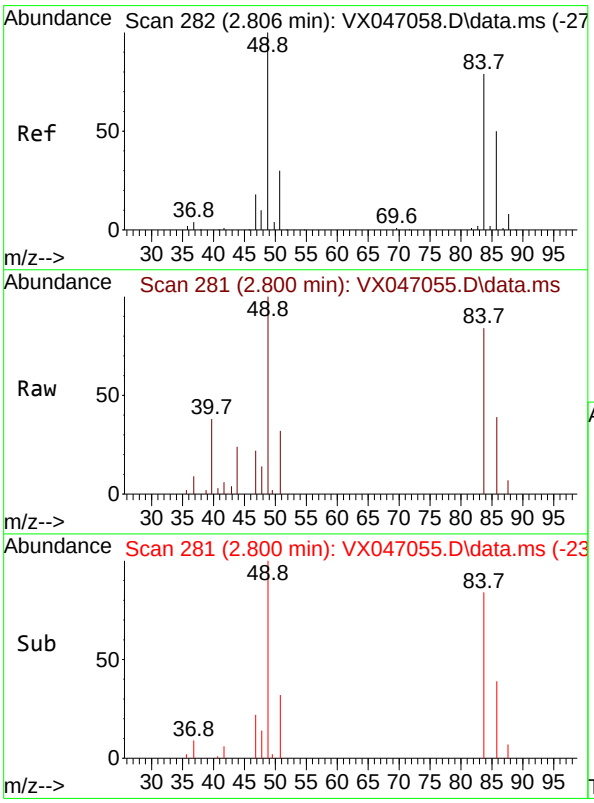
#19
Methyl tert-butyl Ether
Concen: 0.858 ug/l
RT: 3.130 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 73 Resp: 11087

Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.7	26.5

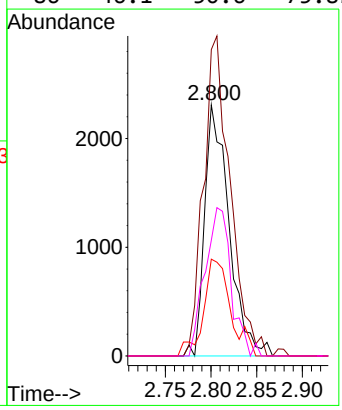


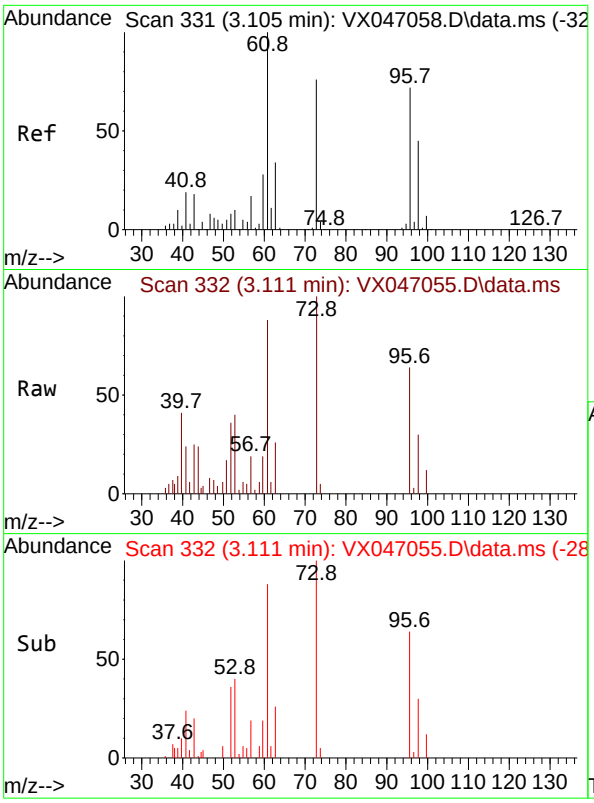


#20
Methylene Chloride
Concen: 0.924 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 84 Resp: 4289

Ion	Ratio	Lower	Upper
84	100		
49	122.0	101.6	152.4
51	38.6	30.3	45.5
86	46.1	50.6	75.8#



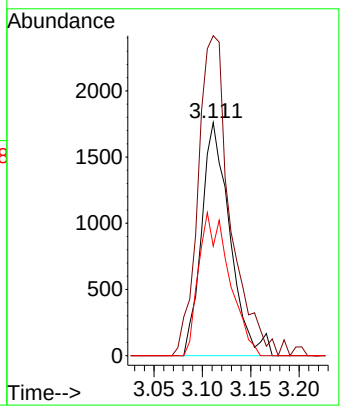


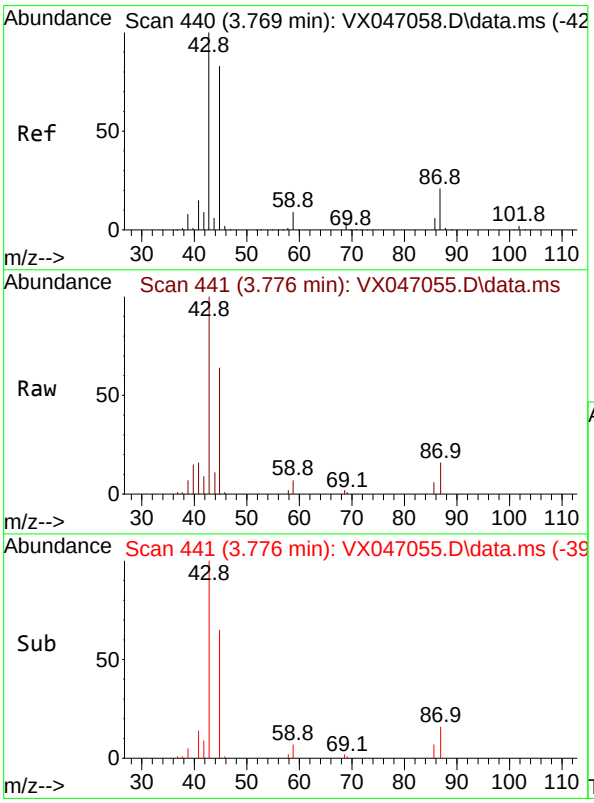
#21
trans-1,2-Dichloroethene
Concen: 0.826 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 3590

Ion	Ratio	Lower	Upper
96	100		
61	140.5	111.1	166.7
98	45.0	49.6	74.4#

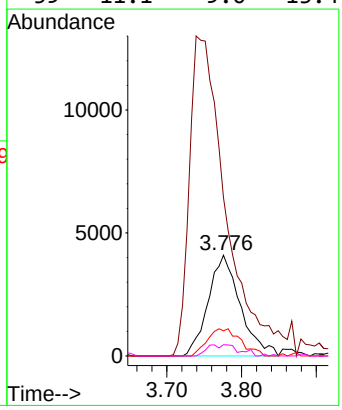


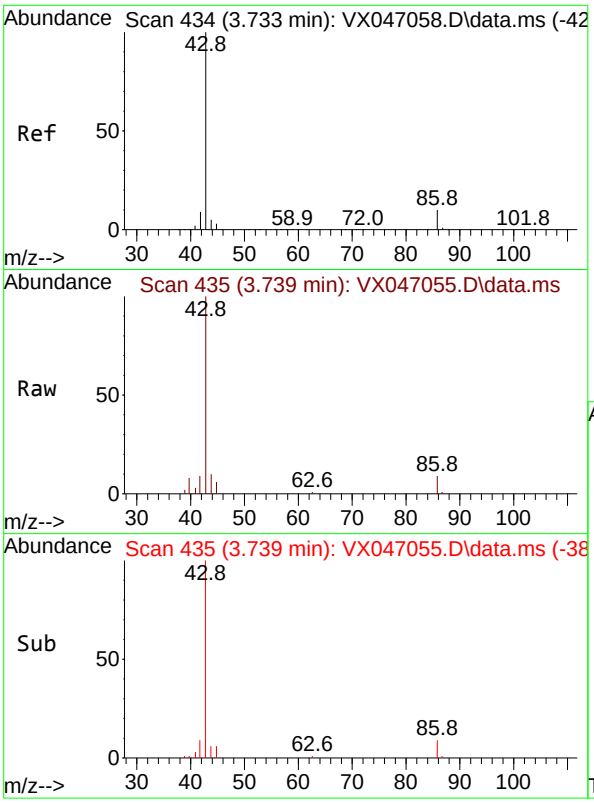


#22
Diisopropyl ether
Concen: 0.828 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 45 Resp: 12222

Ion	Ratio	Lower	Upper
45	100		
43	132.0	96.8	145.2
87	24.9	20.5	30.7
59	11.1	9.0	13.4



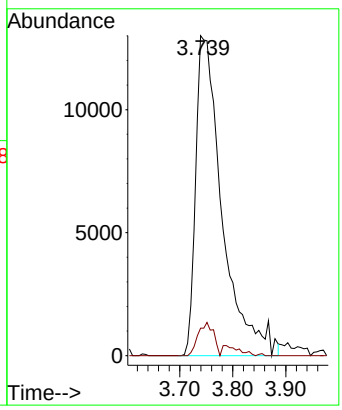


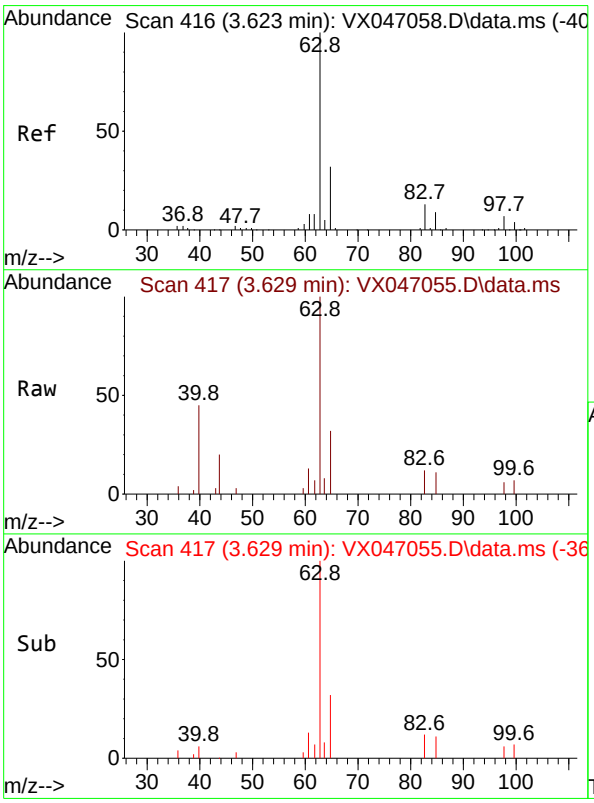
#23
Vinyl Acetate
Concen: 3.805 ug/l
RT: 3.739 min Scan# 4
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 45048

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.1	12.1

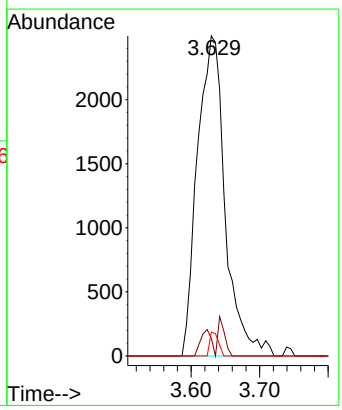


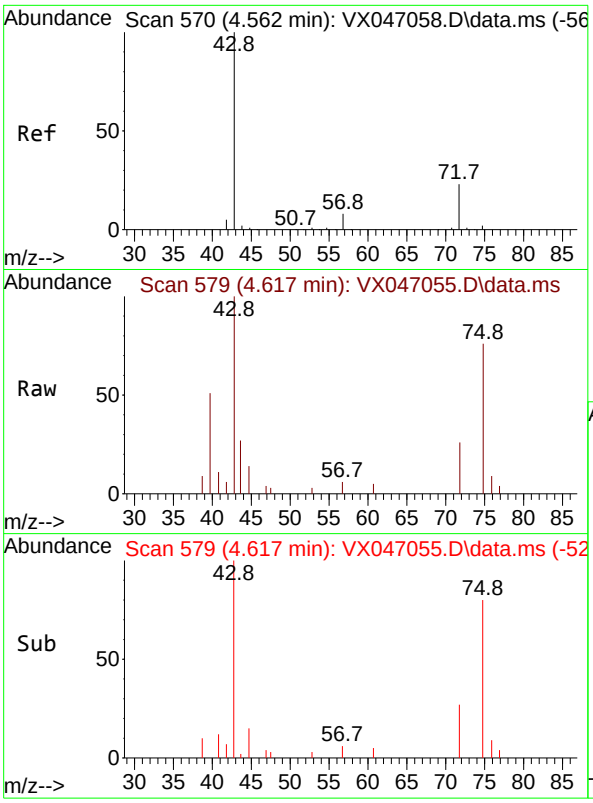


#24
1,1-Dichloroethane
Concen: 0.859 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 63 Resp: 7054

Ion	Ratio	Lower	Upper
63	100		
98	5.1	3.6	10.8
100	6.9	2.3	6.8#



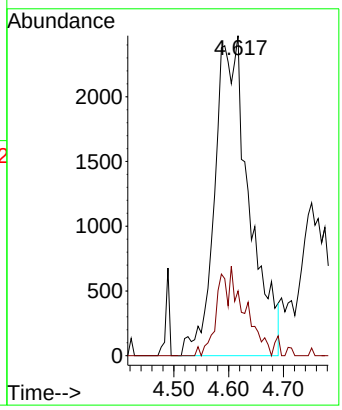


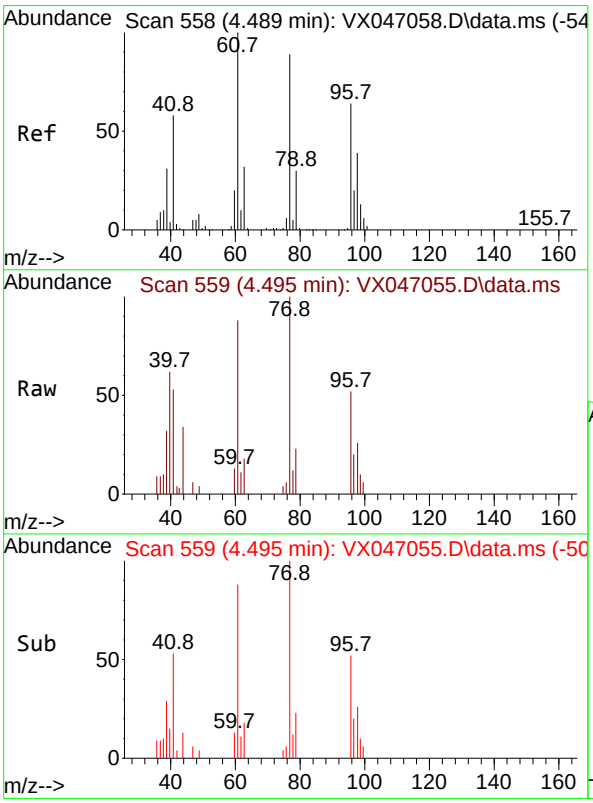
#25
2-Butanone
Concen: 4.367 ug/l
RT: 4.617 min Scan# 5
Delta R.T. 0.055 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 10725

Ion	Ratio	Lower	Upper
43	100		
72	24.2	18.8	28.2

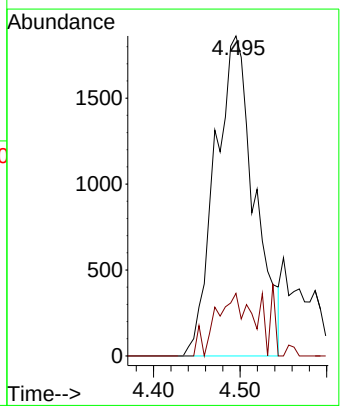


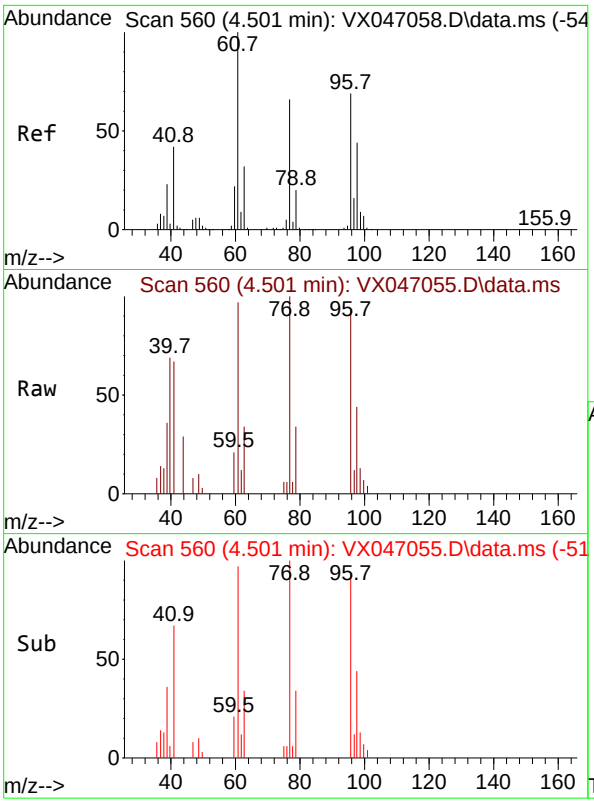


#26
2,2-Dichloropropane
Concen: 0.929 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 77 Resp: 5905

Ion	Ratio	Lower	Upper
77	100		
97	16.7	11.4	34.1



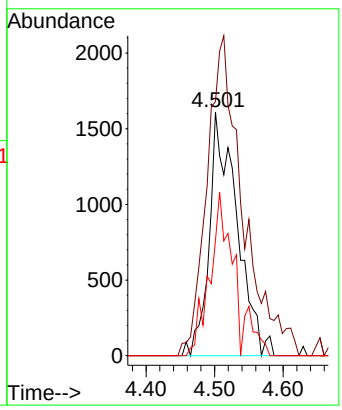


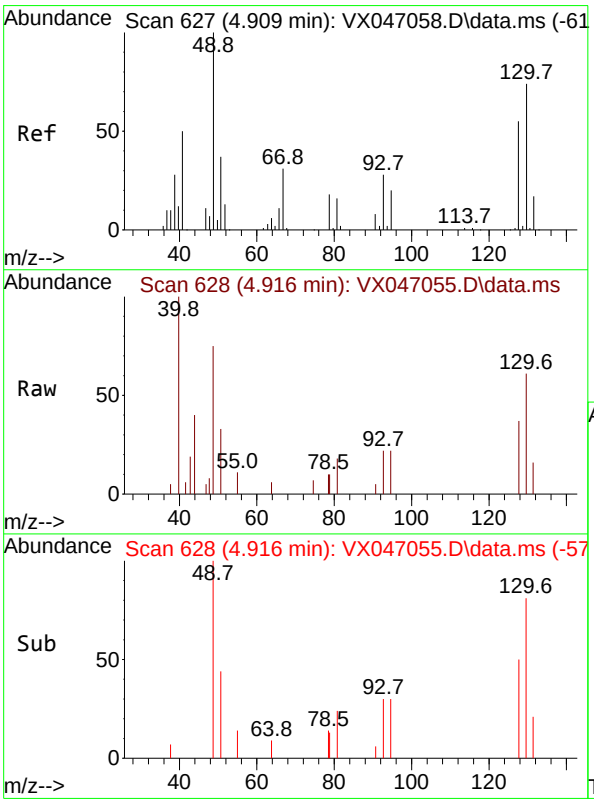
#27
cis-1,2-Dichloroethene
Concen: 0.880 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 4527

Ion	Ratio	Lower	Upper
96	100		
61	170.3	0.0	298.6
98	53.7	0.0	128.8

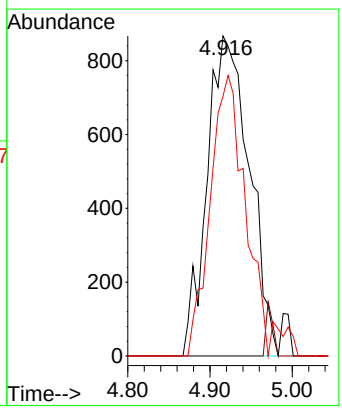


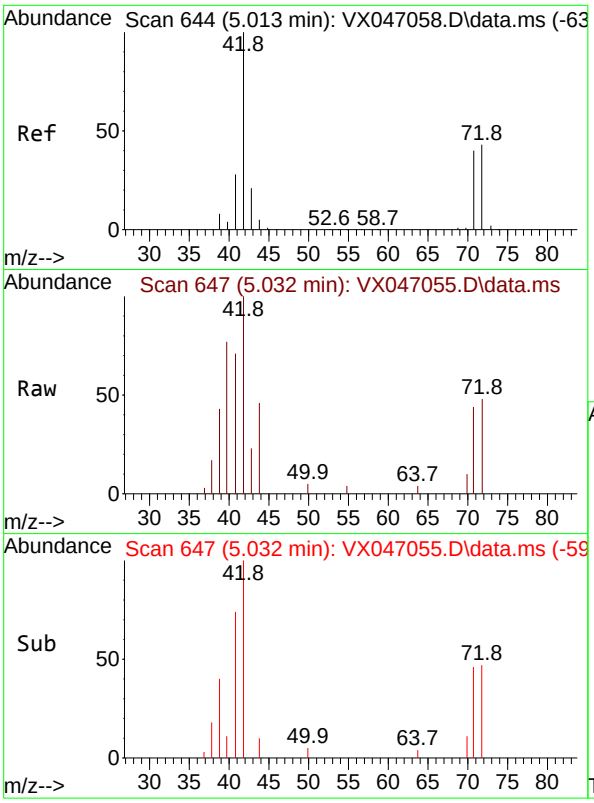


#28
Bromochloromethane
Concen: 0.819 ug/l
RT: 4.916 min Scan# 628
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 49 Resp: 3092

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	72.3	59.0	88.4



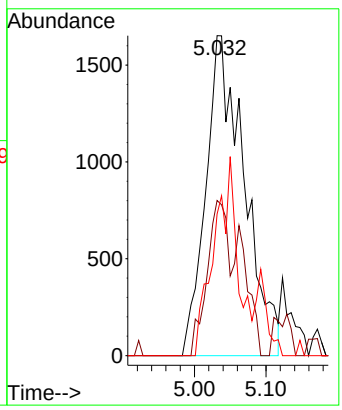


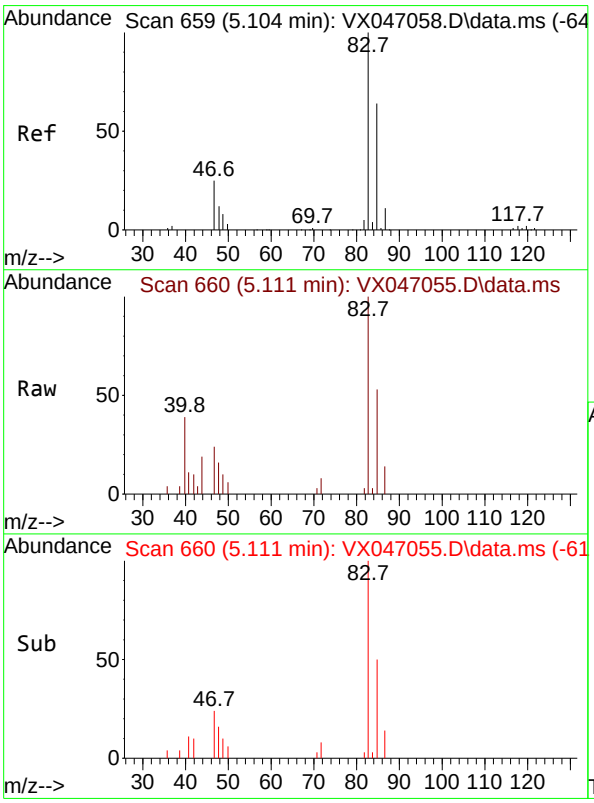
#29
Tetrahydrofuran
Concen: 3.890 ug/l
RT: 5.032 min Scan# 64
Delta R.T. 0.019 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 6164

Ion	Ratio	Lower	Upper
42	100		
72	26.7	33.7	50.5#
71	38.0	31.0	46.4

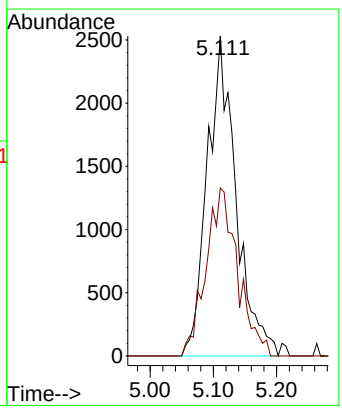


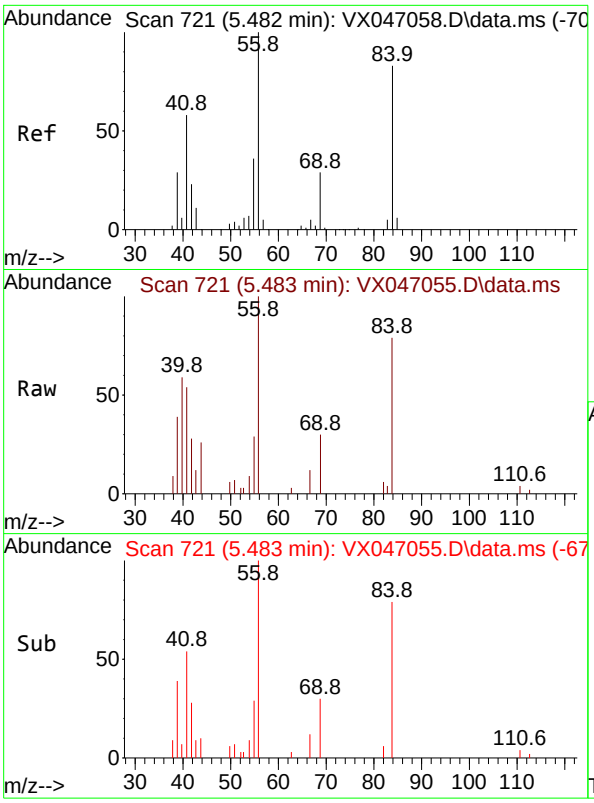


#30
Chloroform
Concen: 0.955 ug/l
RT: 5.111 min Scan# 660
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 83 Resp: 7976

Ion	Ratio	Lower	Upper
83	100		
85	52.5	50.9	76.3



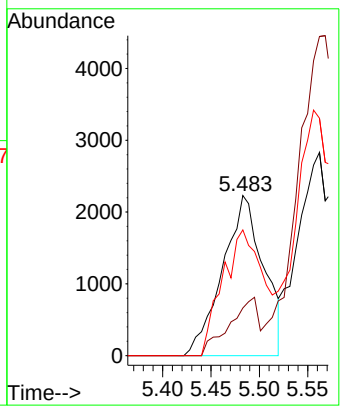


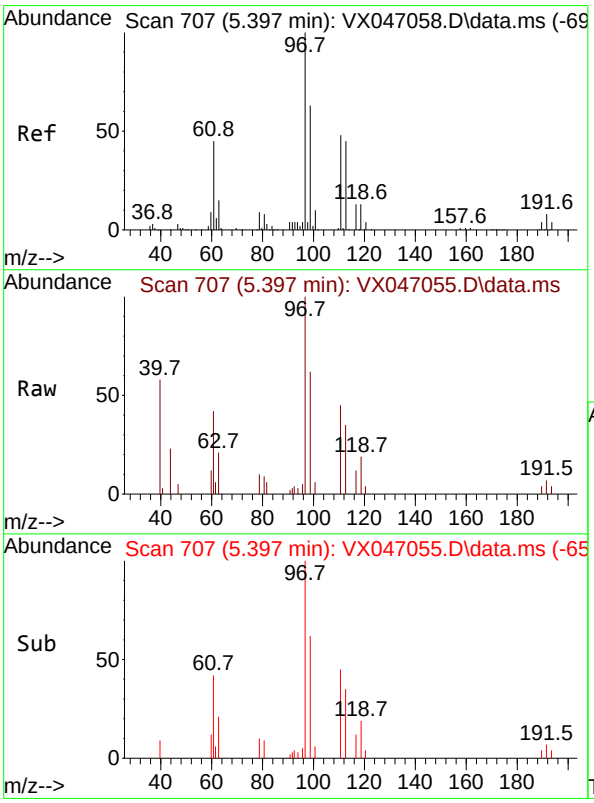
#31
Cyclohexane
Concen: 0.834 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 6563

Ion	Ratio	Lower	Upper
56	100		
69	29.8	23.3	34.9
84	78.5	66.5	99.7

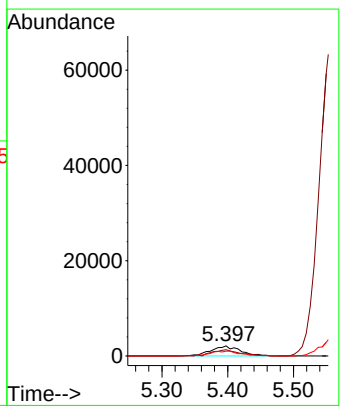


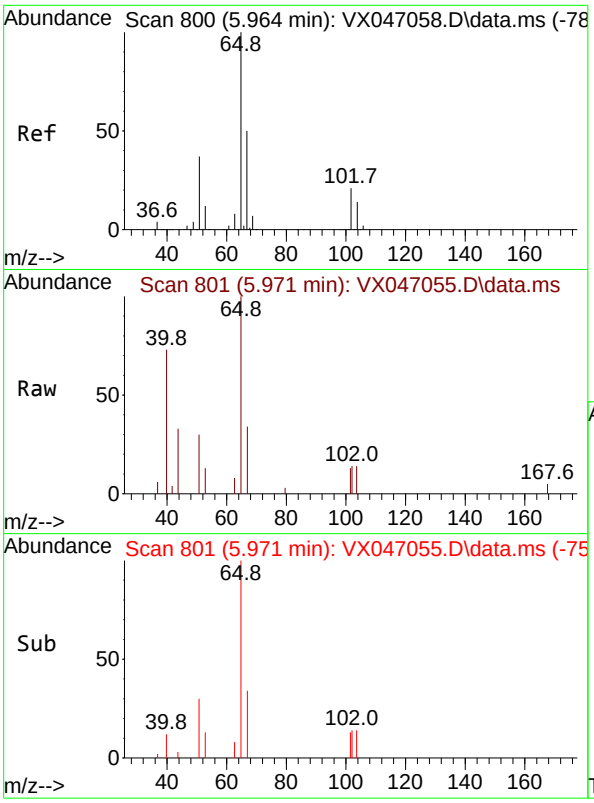


#32
1,1,1-Trichloroethane
Concen: 0.895 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 97 Resp: 6496

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.2	76.8#
61	48.6	37.1	55.7



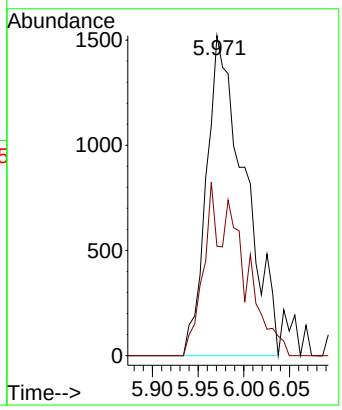


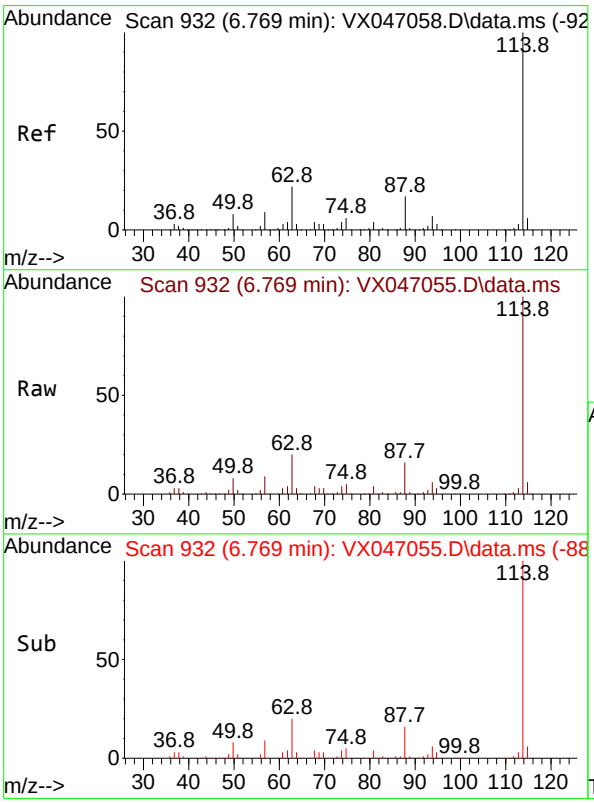
#33
1,2-Dichloroethane-d4
Concen: 1.043 ug/l
RT: 5.971 min Scan# 8
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 65 Resp: 4393

Ion	Ratio	Lower	Upper
65	100		
67	24.1	0.0	104.8

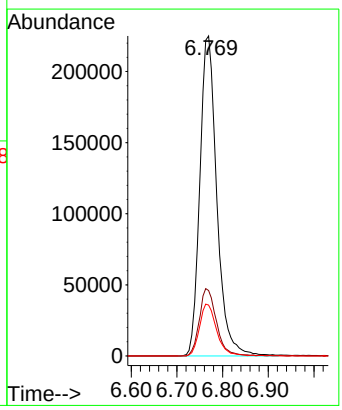


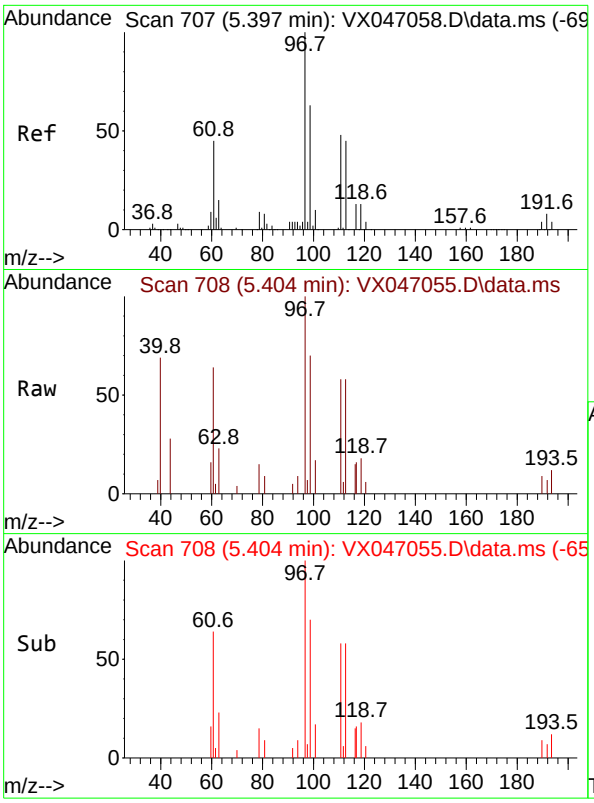


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:114 Resp: 582229

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	43.2
88	15.9	0.0	33.8



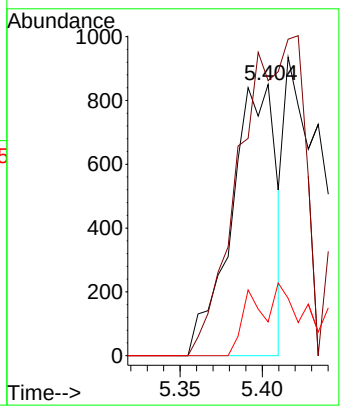


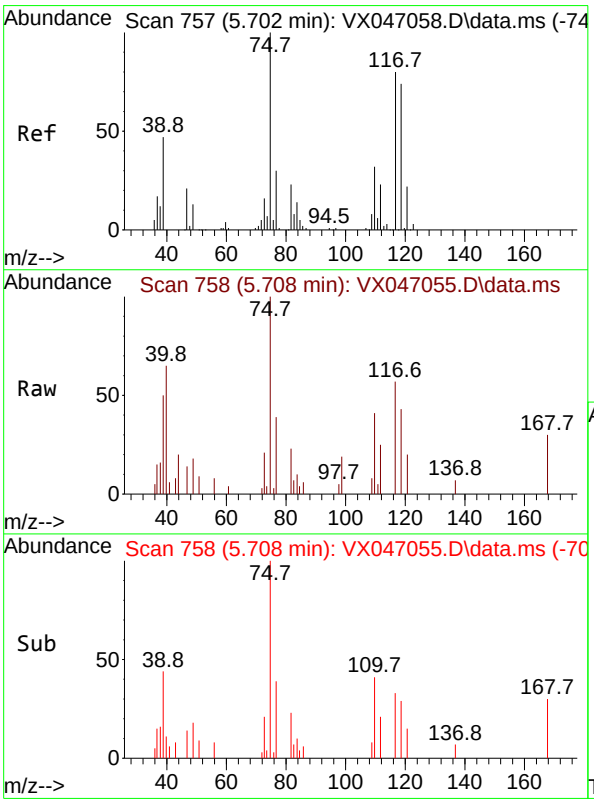
#35
Dibromofluoromethane
Concen: 0.449 ug/l
RT: 5.404 min Scan# 7
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:113 Resp: 1613

Ion	Ratio	Lower	Upper
113	100		
111	167.6	82.6	124.0#
192	10.7	14.9	22.3#

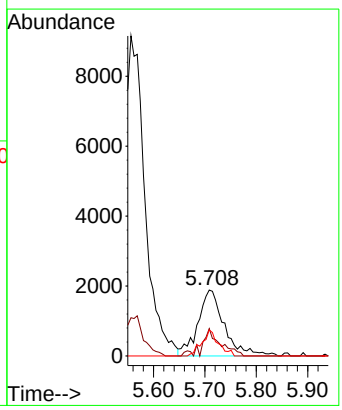


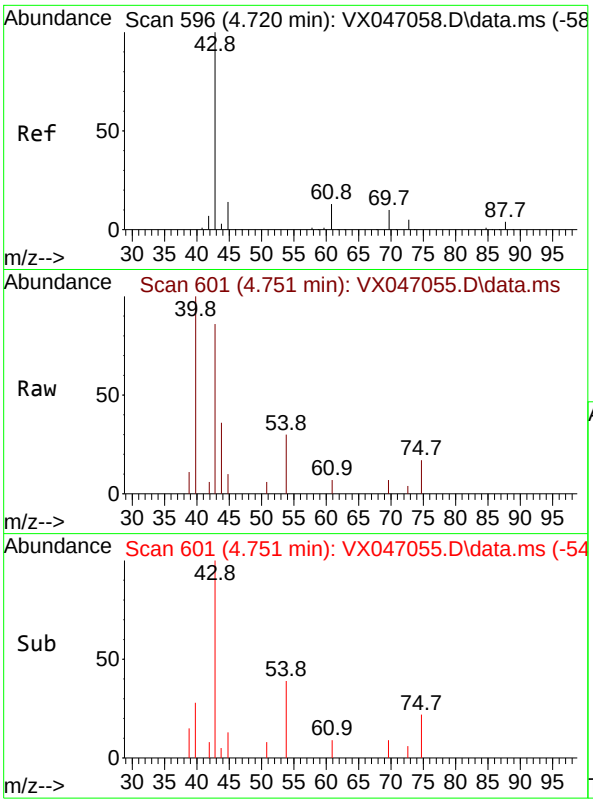


#36
1,1-Dichloropropene
Concen: 1.094 ug/l
RT: 5.708 min Scan# 758
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 75 Resp: 6705

Ion	Ratio	Lower	Upper
75	100		
110	26.3	17.2	51.5
77	24.7	25.1	37.7#



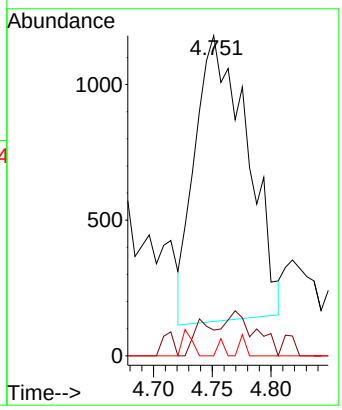


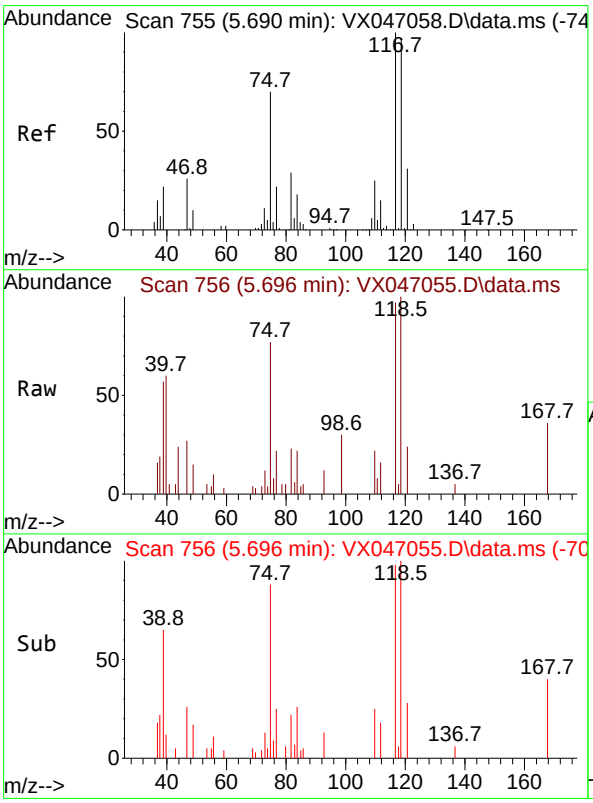
#37
Ethyl Acetate
Concen: 0.600 ug/l
RT: 4.751 min Scan# 6
Delta R.T. 0.031 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 3241

Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.2	15.2#
70	0.7	8.1	12.1#

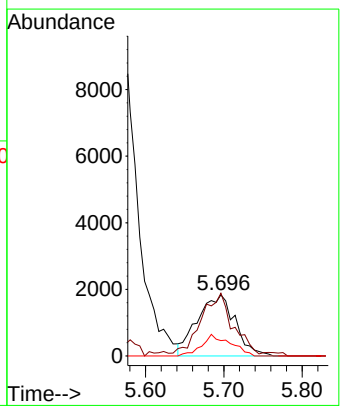


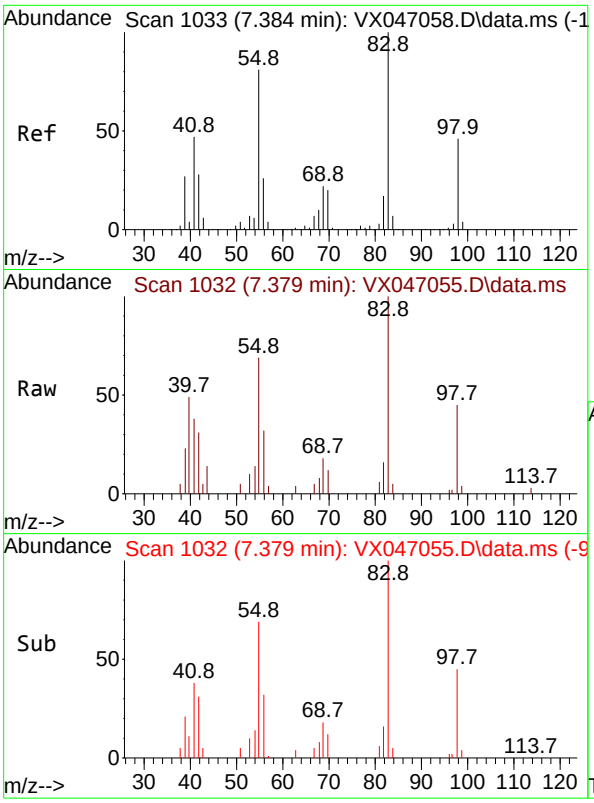


#38
Carbon Tetrachloride
Concen: 0.936 ug/l
RT: 5.696 min Scan# 756
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:117 Resp: 6120

Ion	Ratio	Lower	Upper
117	100		
119	97.9	76.6	115.0
121	25.1	24.4	36.6



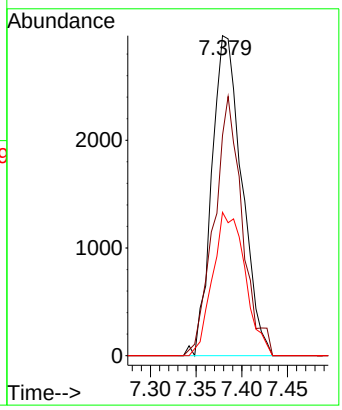


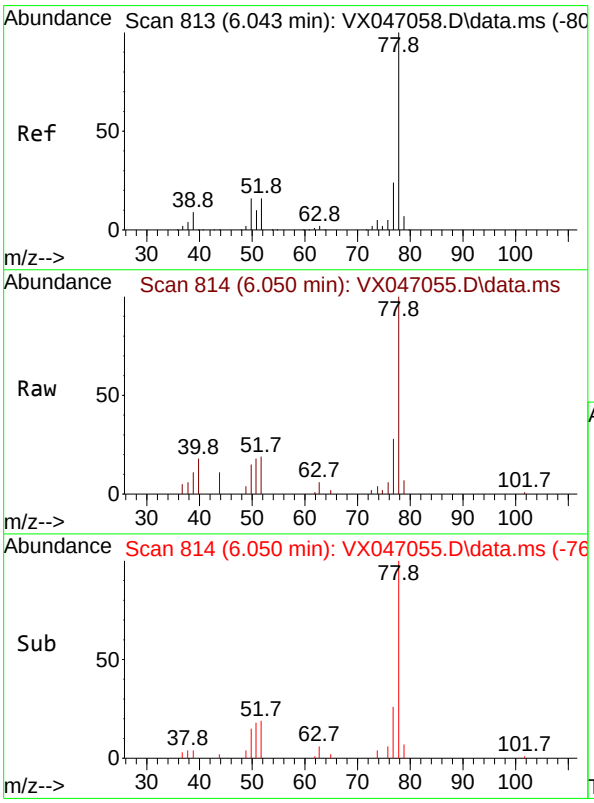
#39
Methylcyclohexane
Concen: 0.888 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 6794

Ion	Ratio	Lower	Upper
83	100		
55	68.8	64.5	96.7
98	48.7	36.9	55.3

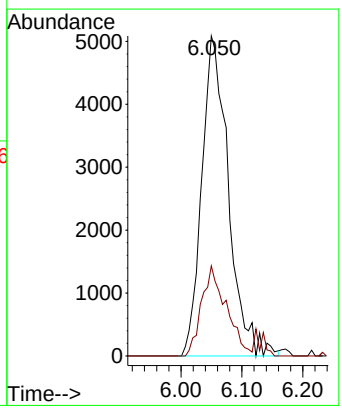


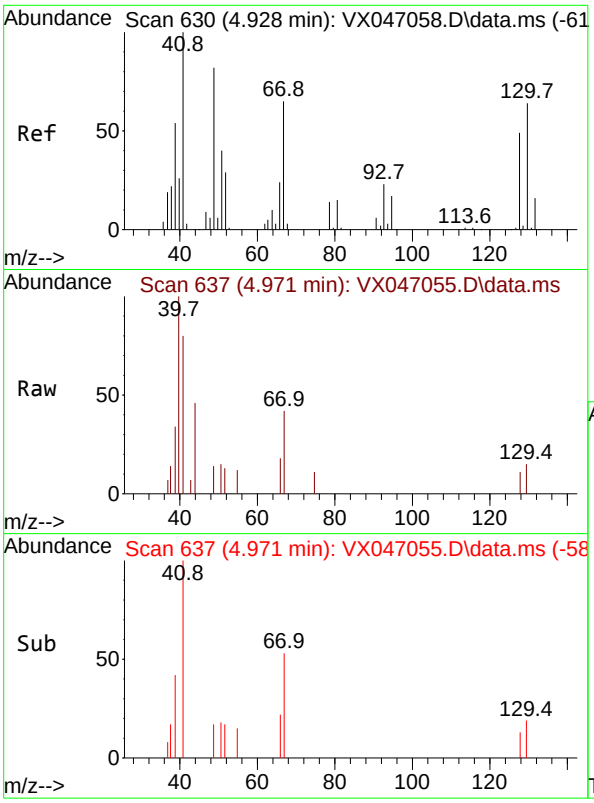


#40
Benzene
Concen: 0.871 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 78 Resp: 15450

Ion	Ratio	Lower	Upper
78	100		
77	28.2	19.0	28.4



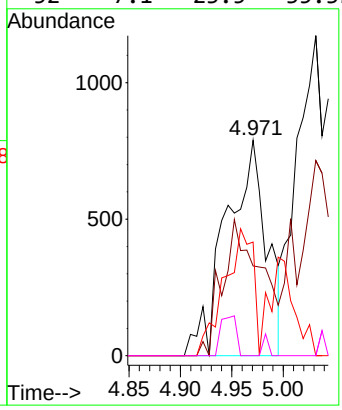


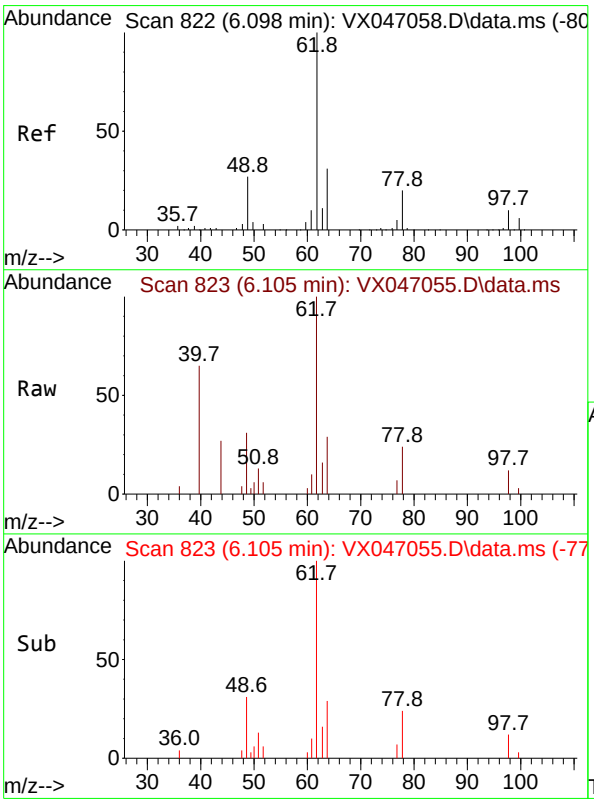
#41
Methacrylonitrile
Concen: 0.734 ug/l
RT: 4.971 min Scan# 6
Delta R.T. 0.043 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 2166

Ion	Ratio	Lower	Upper
41	100		
39	60.6	44.2	66.2
67	41.7	56.4	84.6#
52	7.1	23.5	35.3#

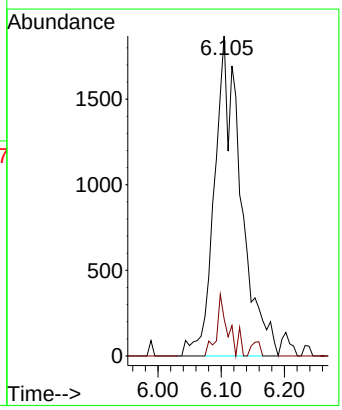


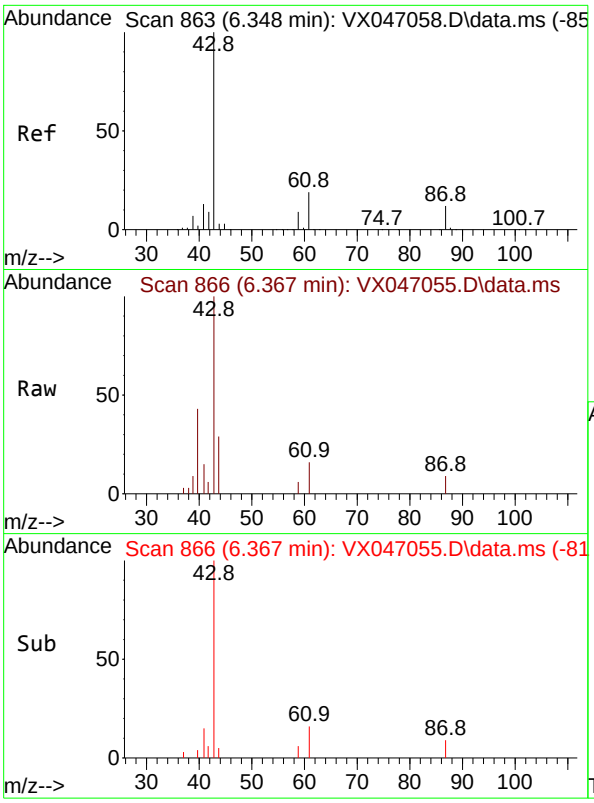


#42
1,2-Dichloroethane
Concen: 0.872 ug/l
RT: 6.105 min Scan# 823
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 62 Resp: 5449

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	18.8



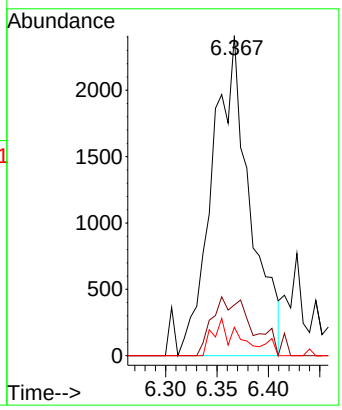


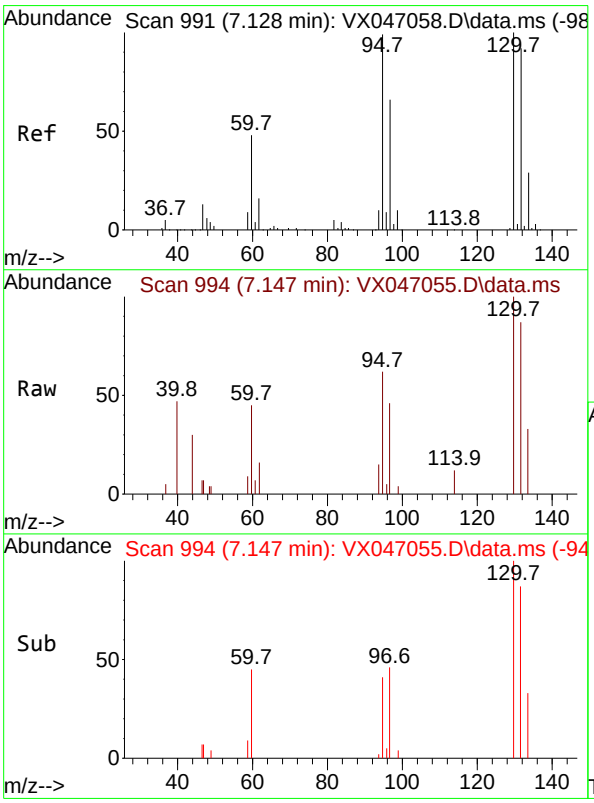
#43
Isopropyl Acetate
Concen: 0.697 ug/l
RT: 6.367 min Scan# 8
Delta R.T. 0.019 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 6134

Ion	Ratio	Lower	Upper
43	100		
61	20.2	15.1	22.7
87	7.7	9.7	14.5#

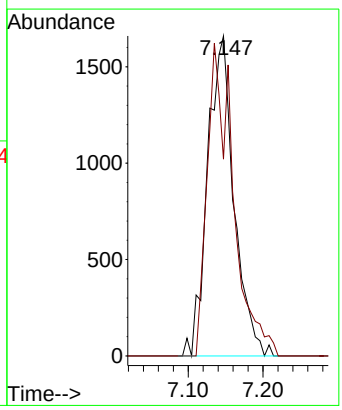


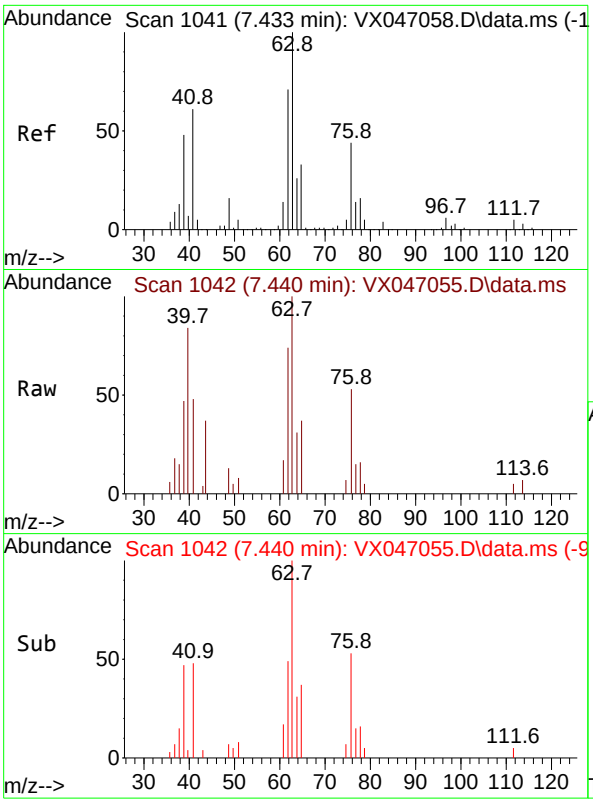


#44
Trichloroethene
Concen: 0.896 ug/l
RT: 7.147 min Scan# 994
Delta R.T. 0.019 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:130 Resp: 4075

Ion	Ratio	Lower	Upper
130	100		
95	61.5	0.0	198.6



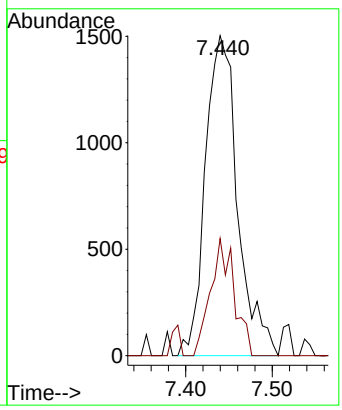


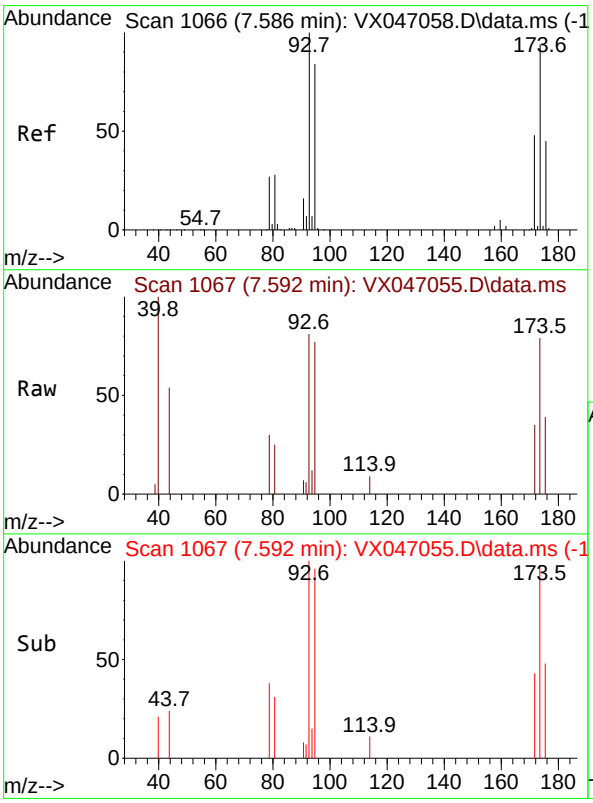
#45
1,2-Dichloropropane
Concen: 0.877 ug/l
RT: 7.440 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 3895

Ion	Ratio	Lower	Upper
63	100		
65	36.6	26.3	39.5

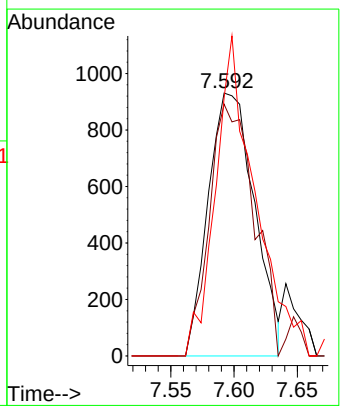


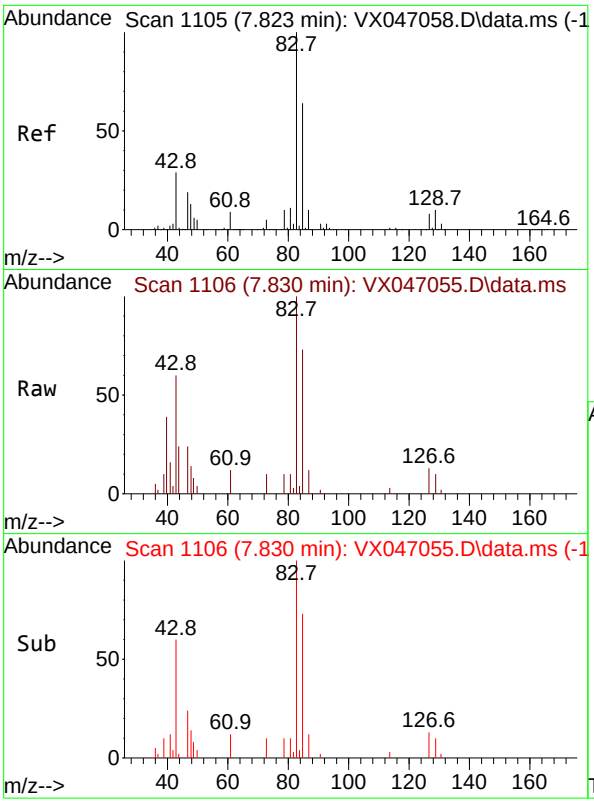


#46
Dibromomethane
Concen: 0.762 ug/l
RT: 7.592 min Scan# 1067
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 93 Resp: 2372

Ion	Ratio	Lower	Upper
93	100		
95	94.0	65.9	98.9
174	104.2	74.6	112.0



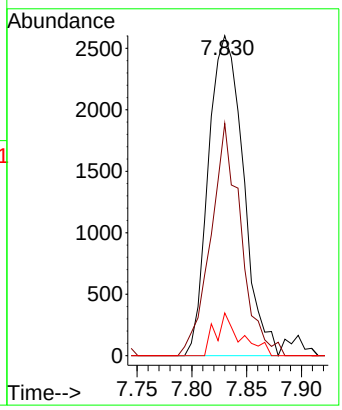


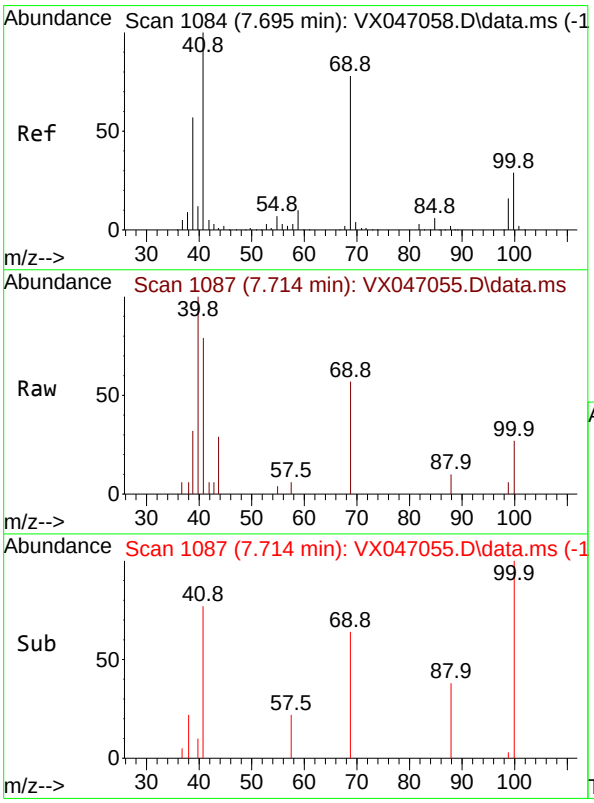
#47
Bromodichloromethane
Concen: 0.867 ug/l
RT: 7.830 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 5749

Ion	Ratio	Lower	Upper
83	100		
85	72.6	49.9	74.9
127	13.4	6.6	10.0#

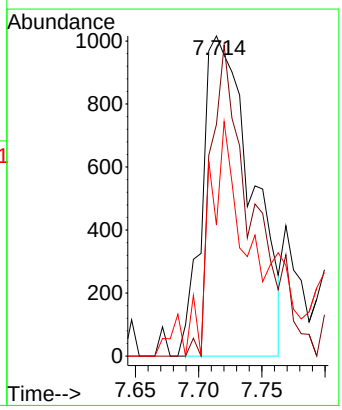


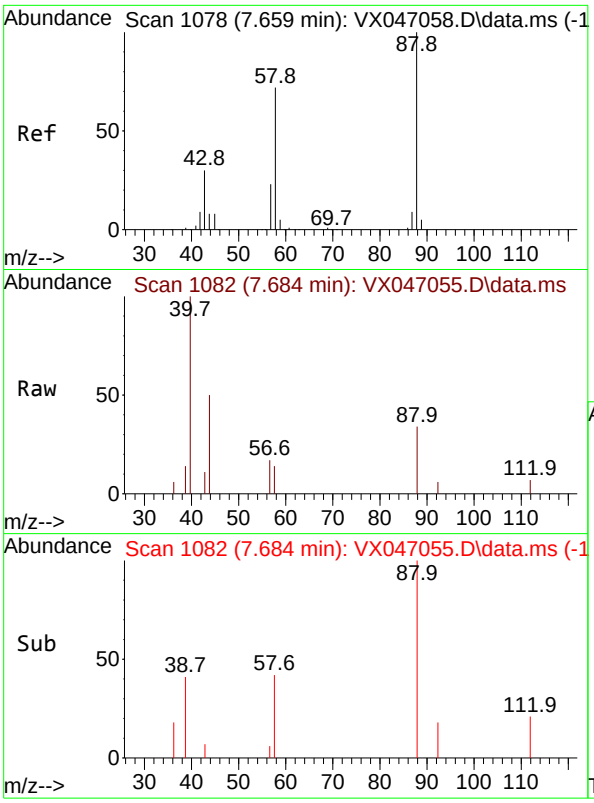


#48
Methyl methacrylate
Concen: 0.578 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.019 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 41 Resp: 2771

Ion	Ratio	Lower	Upper
41	100		
69	82.3	62.3	93.5
39	50.2	44.8	67.2



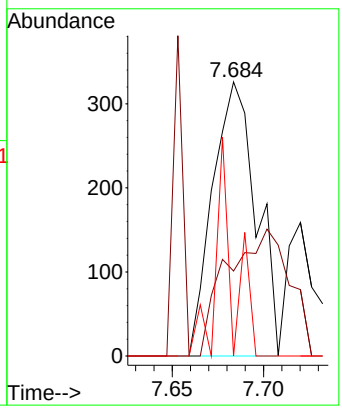


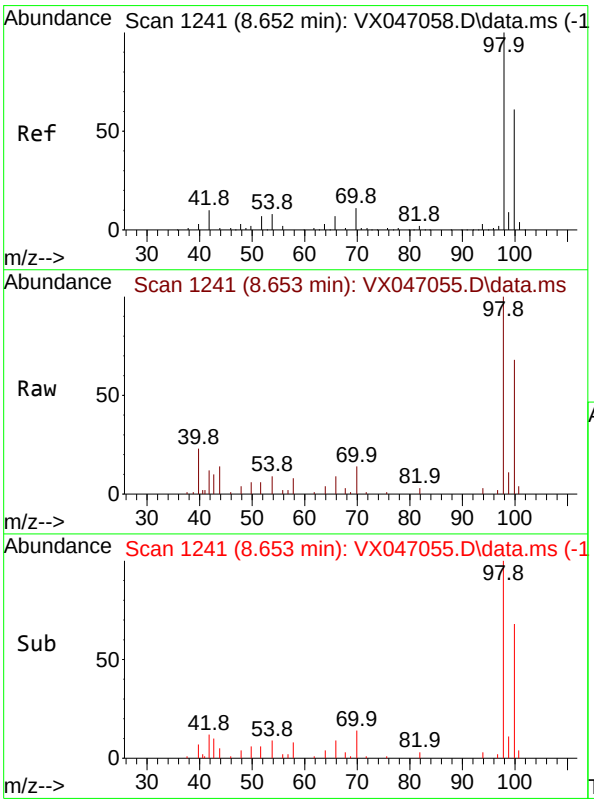
#49
1,4-Dioxane
Concen: 9.937 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.025 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 88 Resp: 542

Ion	Ratio	Lower	Upper
88	100		
43	0.0	33.6	50.4#
58	31.5	58.8	88.2#

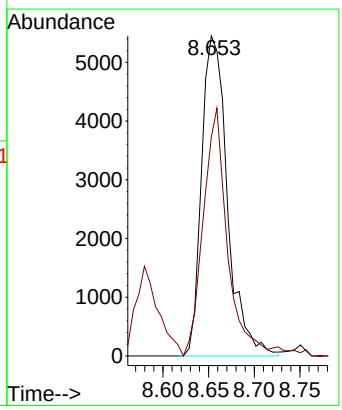


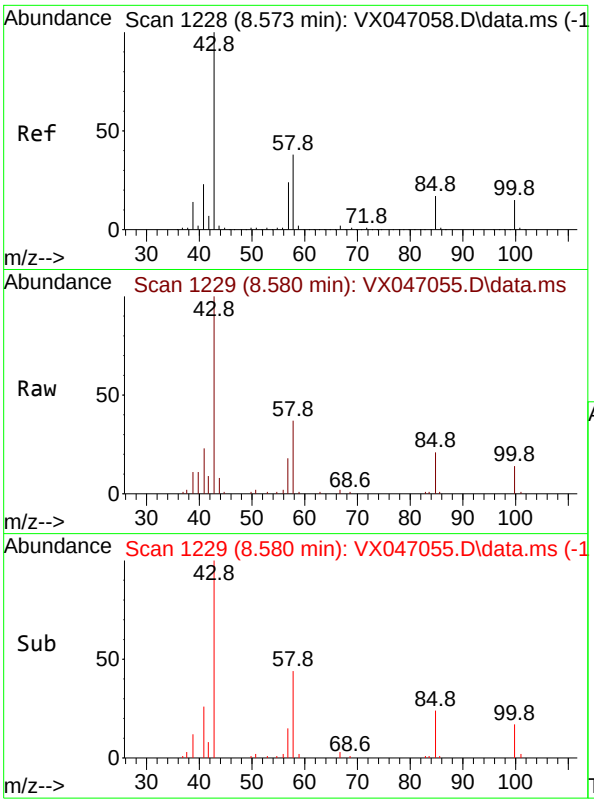


#50
Toluene-d8
Concen: 0.921 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 98 Resp: 10718

Ion	Ratio	Lower	Upper
98	100		
100	74.0	53.3	79.9



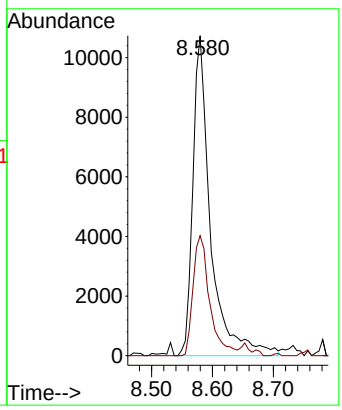


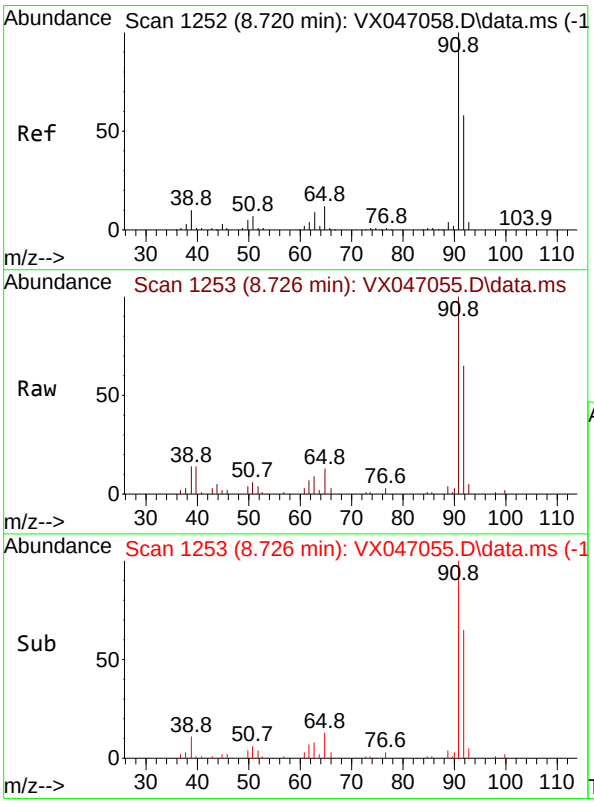
#51
4-Methyl-2-Pentanone
Concen: 4.131 ug/l
RT: 8.580 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 21616

Ion	Ratio	Lower	Upper
43	100		
58	35.4	30.6	45.8

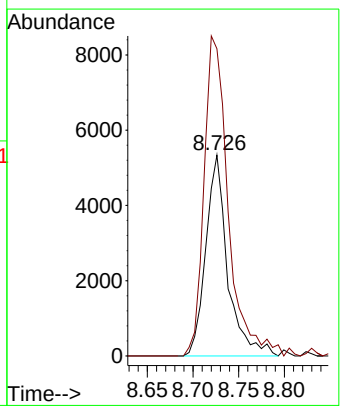


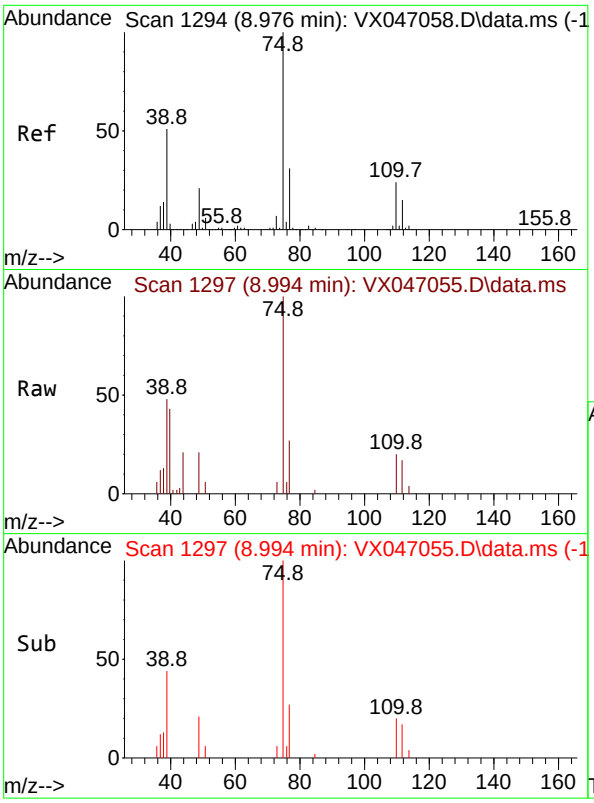


#52
Toluene
Concen: 0.814 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 92 Resp: 8872

Ion	Ratio	Lower	Upper
92	100		
91	177.3	137.9	206.9



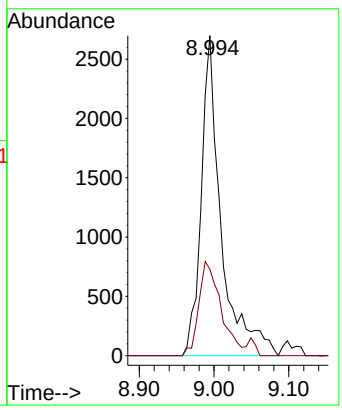


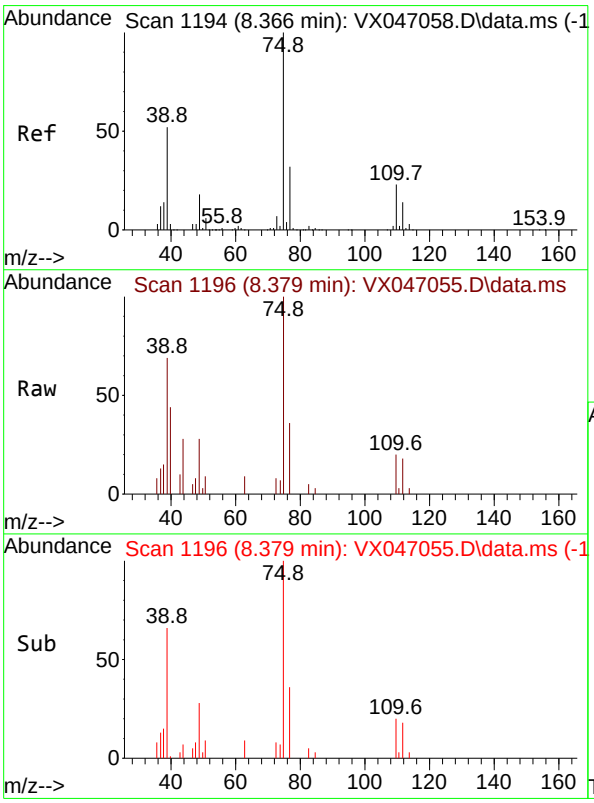
#53
t-1,3-Dichloropropene
Concen: 0.798 ug/l
RT: 8.994 min Scan# 1
Delta R.T. 0.019 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 4993

Ion	Ratio	Lower	Upper
75	100		
77	27.0	24.5	36.7

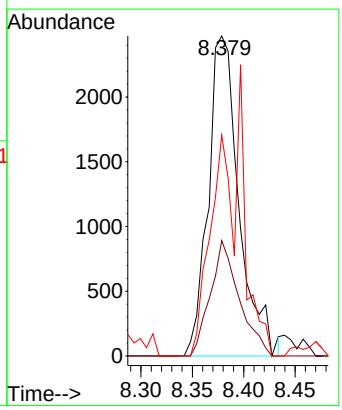


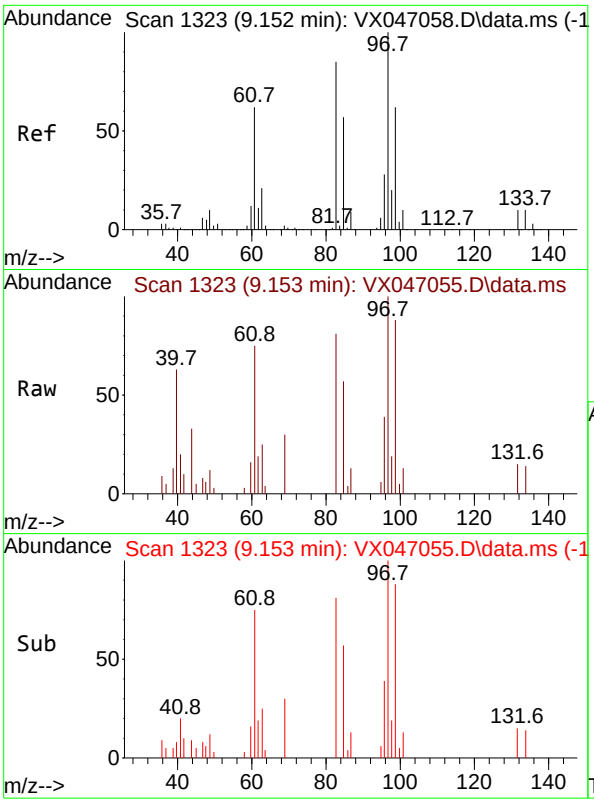


#54
cis-1,3-Dichloropropene
Concen: 0.751 ug/l
RT: 8.379 min Scan# 1196
Delta R.T. 0.013 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 75 Resp: 5149

Ion	Ratio	Lower	Upper
75	100		
77	36.0	25.4	38.0
39	25.1	41.8	62.6#



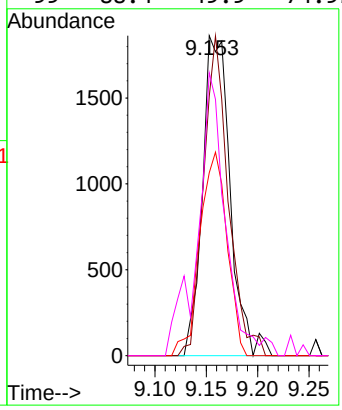


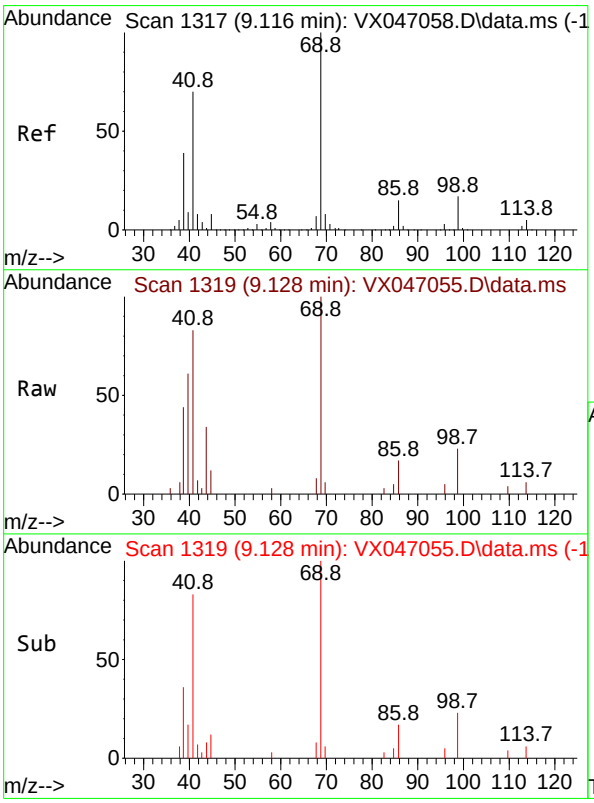
#55
1,1,2-Trichloroethane
Concen: 0.853 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 3490

Ion	Ratio	Lower	Upper
97	100		
83	81.0	68.0	102.0
85	57.2	45.2	67.8
99	88.4	49.9	74.9#

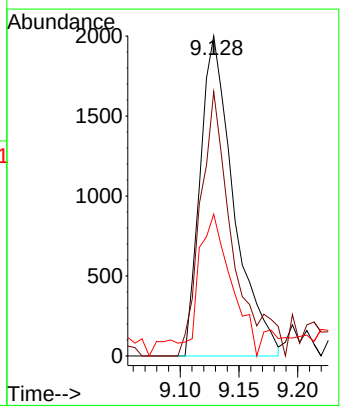


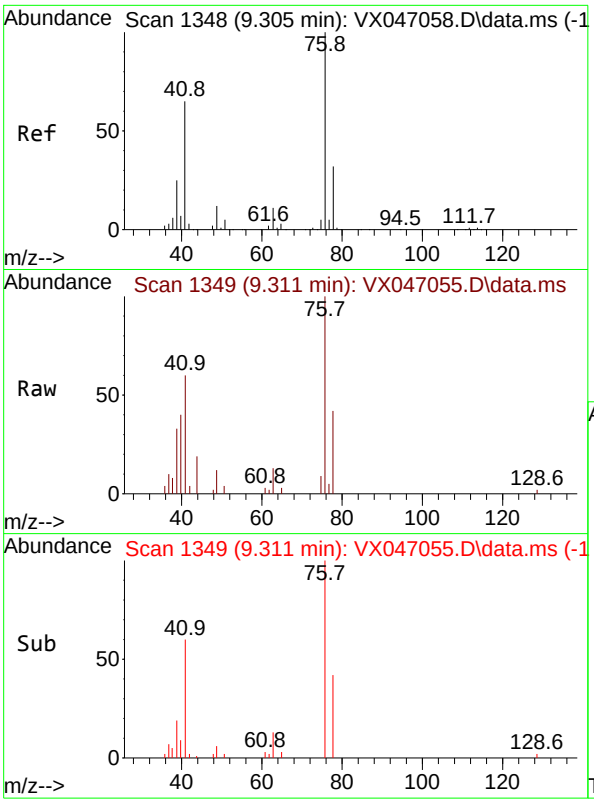


#56
Ethyl methacrylate
Concen: 0.657 ug/l
RT: 9.128 min Scan# 1319
Delta R.T. 0.013 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 69 Resp: 3978

Ion	Ratio	Lower	Upper
69	100		
41	78.7	56.1	84.1
39	42.5	31.1	46.7



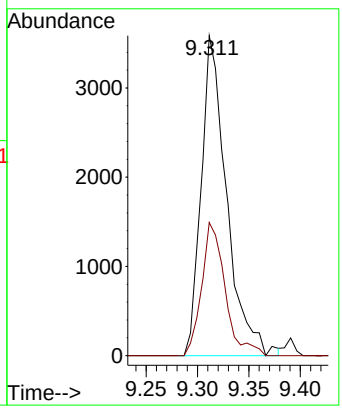


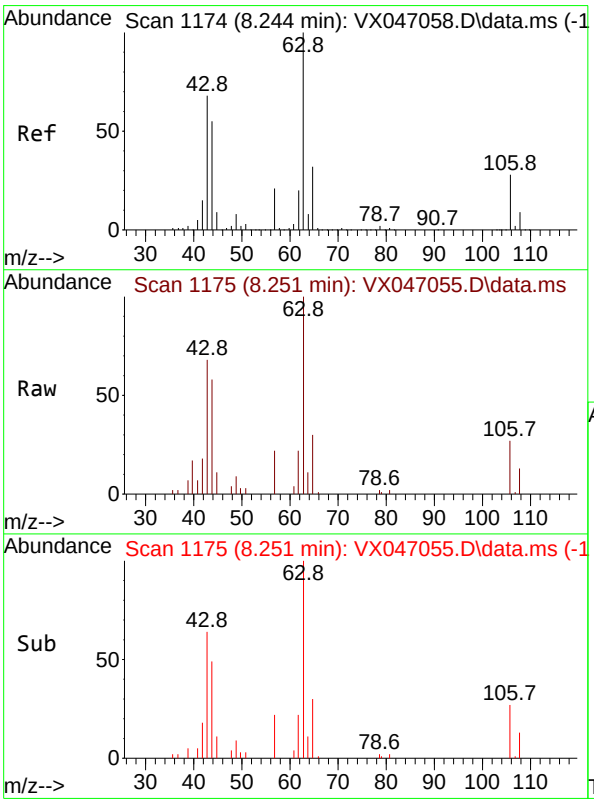
#57
1,3-Dichloropropane
Concen: 0.868 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 6170

Ion	Ratio	Lower	Upper
76	100		
78	38.4	25.5	38.3#

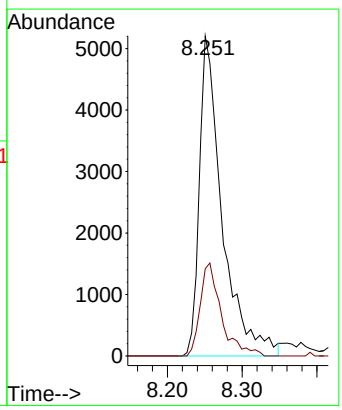


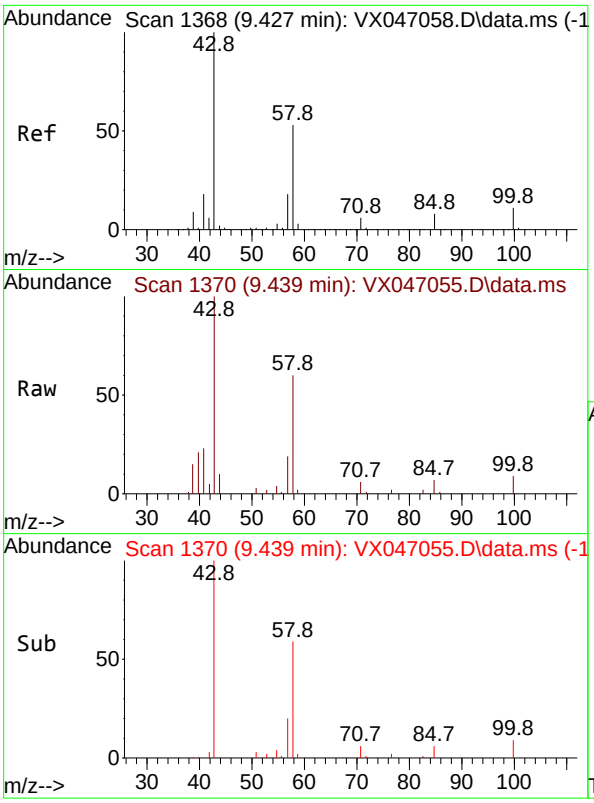


#58
2-Chloroethyl Vinyl ether
Concen: 3.268 ug/l
RT: 8.251 min Scan# 1175
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 63 Resp: 11010

Ion	Ratio	Lower	Upper
63	100		
106	27.0	22.2	33.4



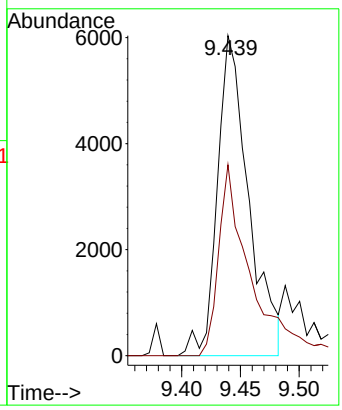


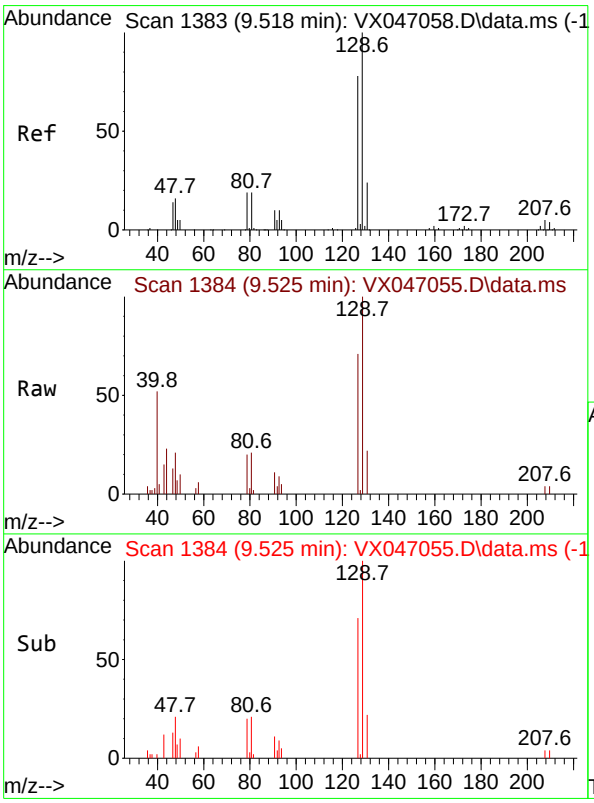
#59
2-Hexanone
Concen: 3.240 ug/l
RT: 9.439 min Scan# 1
Delta R.T. 0.013 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 11200

Ion	Ratio	Lower	Upper
43	100		
58	61.9	26.5	79.5

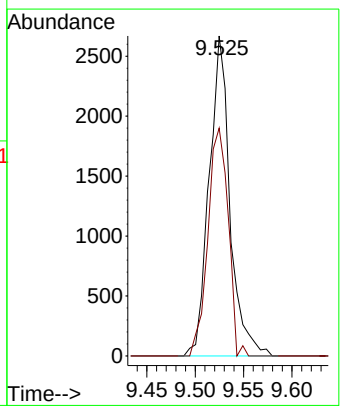


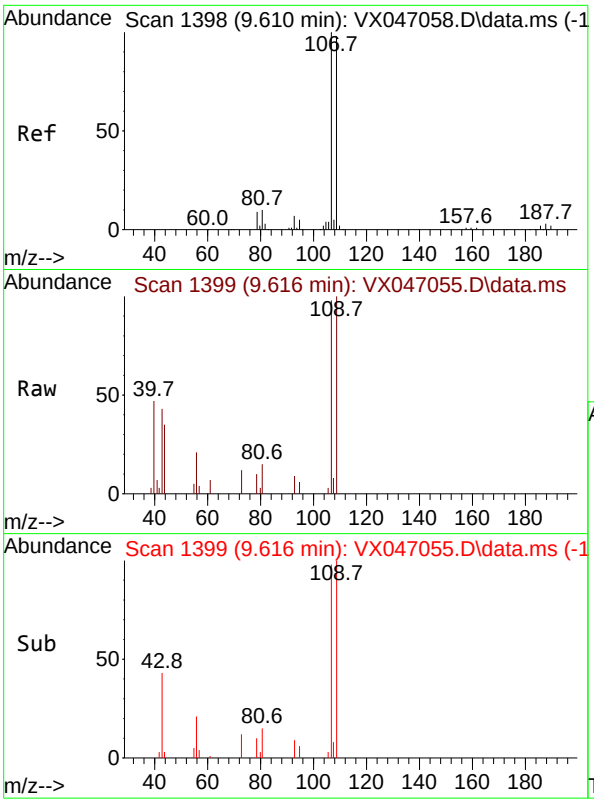


#60
Dibromochloromethane
Concen: 0.834 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:129 Resp: 3998

Ion	Ratio	Lower	Upper
129	100		
127	69.2	38.6	115.8



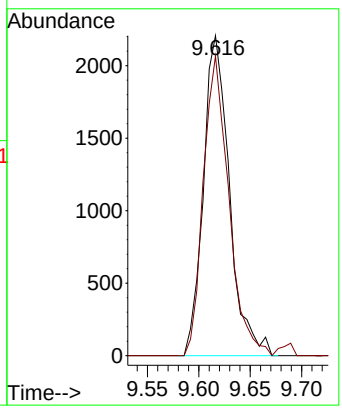


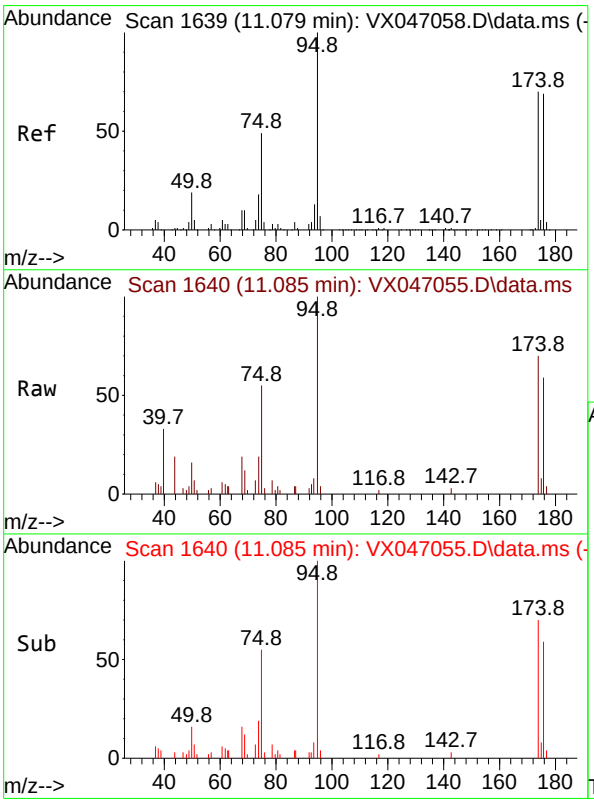
#61
1,2-Dibromoethane
Concen: 0.909 ug/l
RT: 9.616 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:107 Resp: 3885

Ion	Ratio	Lower	Upper
107	100		
109	91.7	74.6	112.0

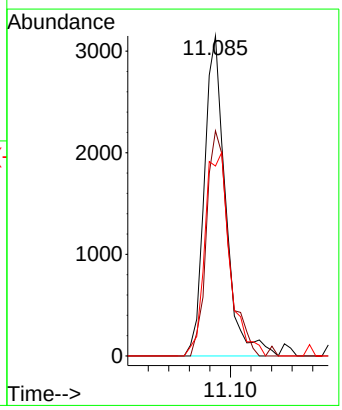


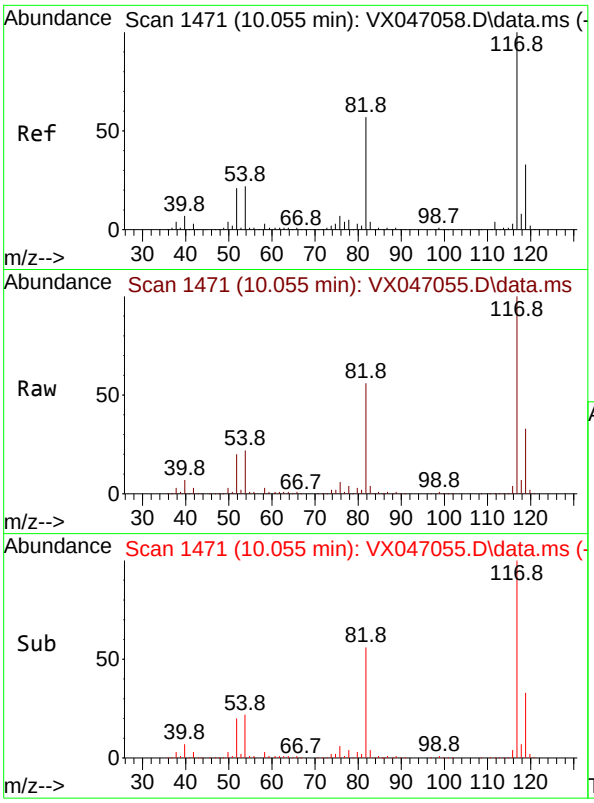


#62
4-Bromofluorobenzene
Concen: 0.900 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 95 Resp: 4514

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	144.6
176	74.5	0.0	139.6



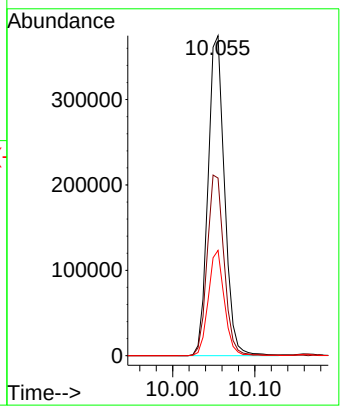


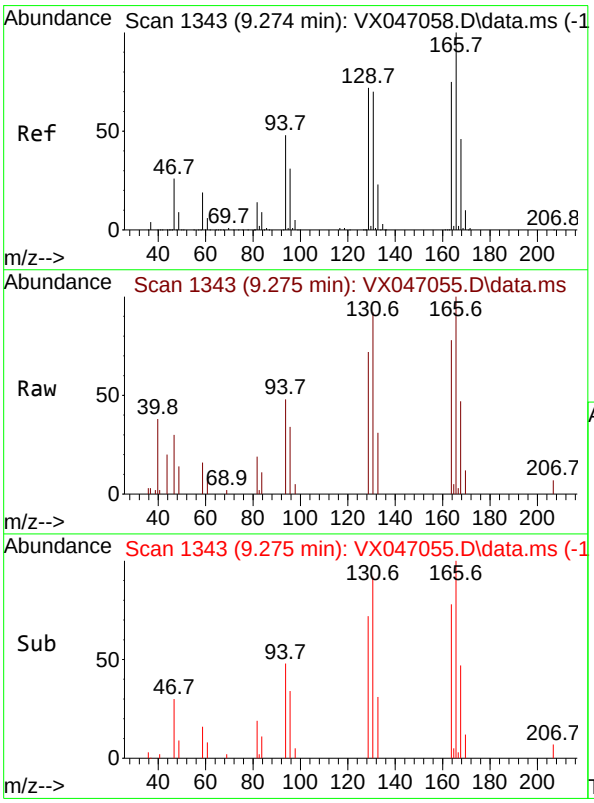
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 522701

Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.4	68.2
119	32.9	26.1	39.1

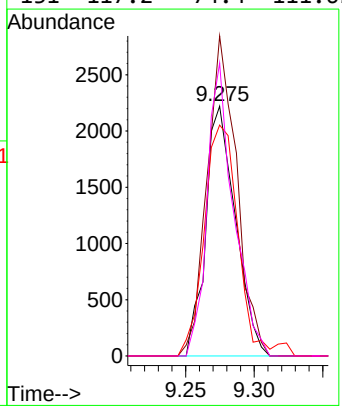


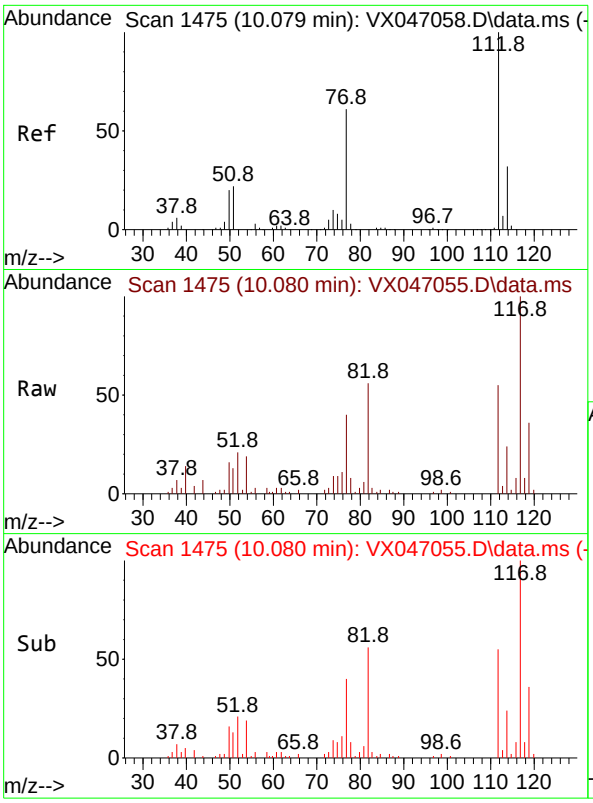


#64
Tetrachloroethene
Concen: 0.892 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:164 Resp: 3363

Ion	Ratio	Lower	Upper
164	100		
166	128.1	106.2	159.4
129	92.4	76.6	114.8
131	117.2	74.4	111.6#



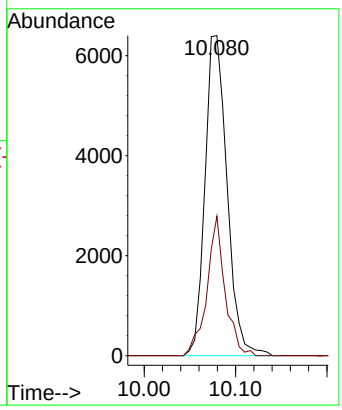


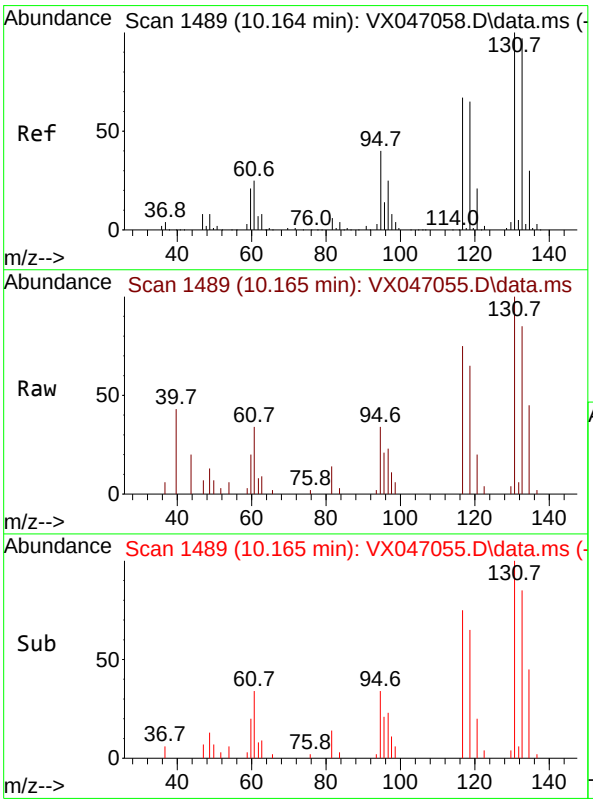
#65
Chlorobenzene
Concen: 0.878 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 10754

Ion	Ratio	Lower	Upper
112	100		
114	43.6	25.8	38.6#

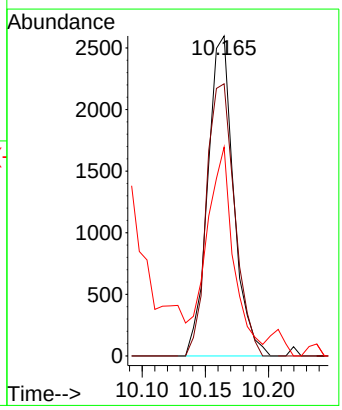


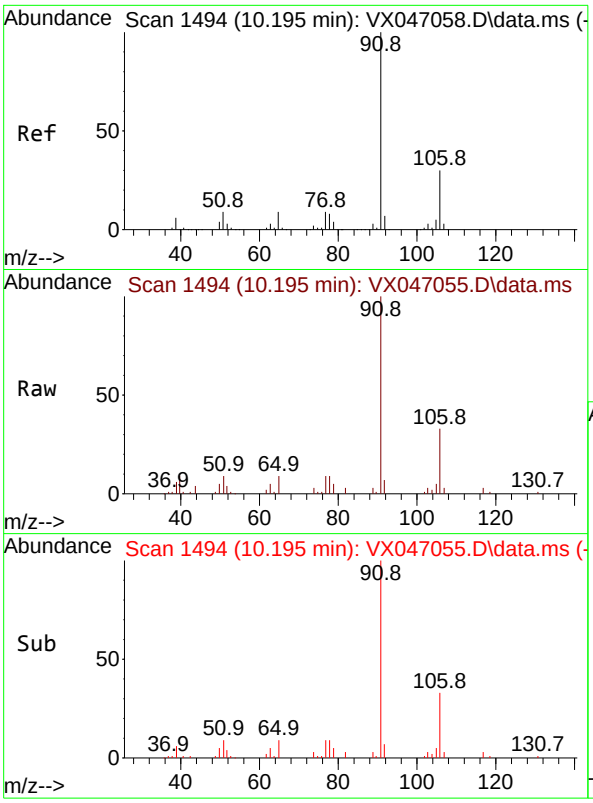


#66
1,1,1,2-Tetrachloroethane
Concen: 0.897 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:131 Resp: 3699

Ion	Ratio	Lower	Upper
131	100		
133	92.3	48.4	145.3
119	0.0	32.4	97.0#



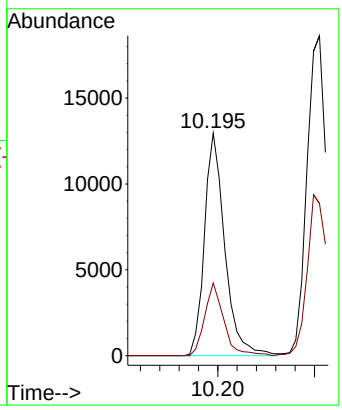


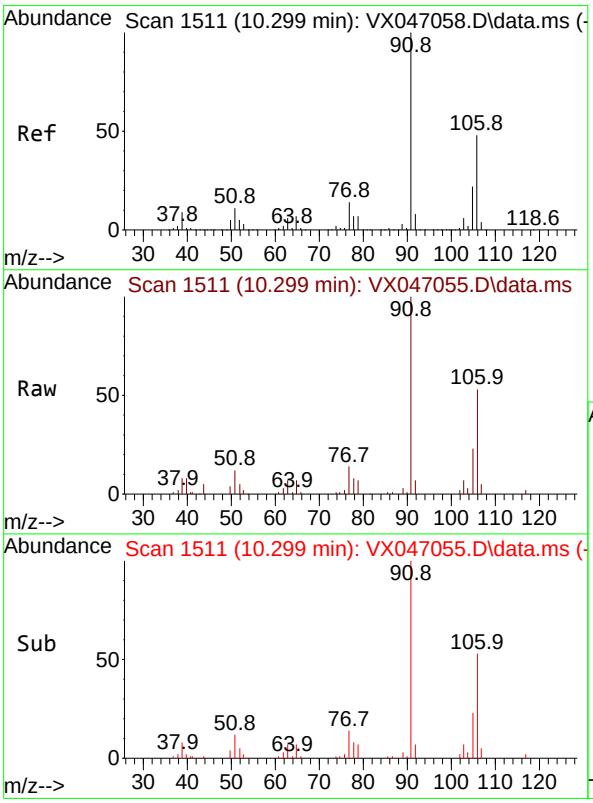
#67
Ethyl Benzene
Concen: 0.886 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 18959

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.2	36.4

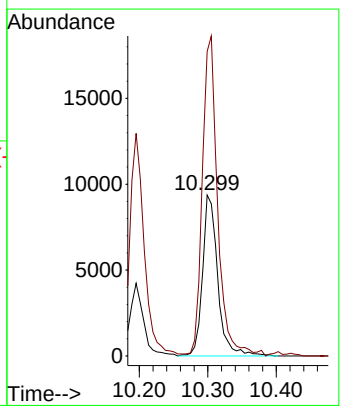


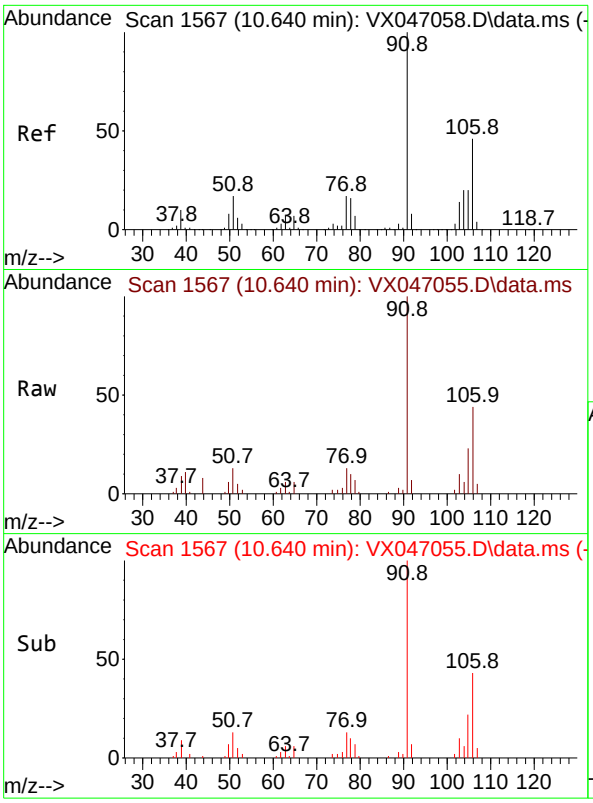


#68
m/p-Xylenes
Concen: 1.809 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:106 Resp: 14496

Ion	Ratio	Lower	Upper
106	100		
91	200.4	167.4	251.0



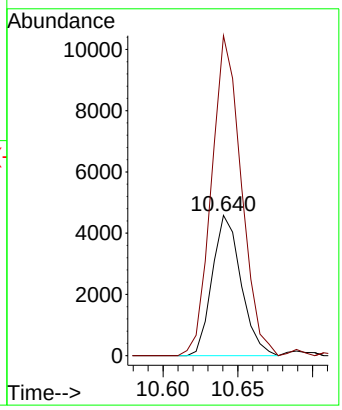


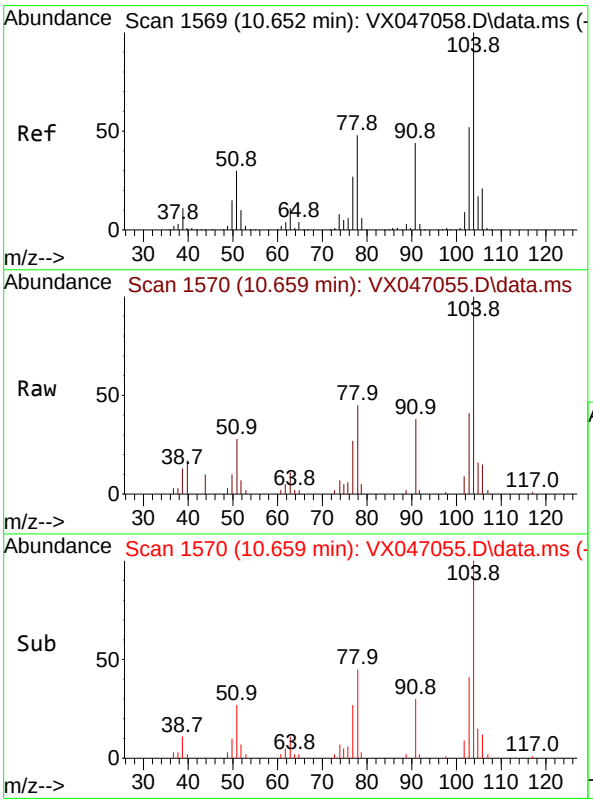
#69
o-Xylene
Concen: 0.804 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 6125

Ion	Ratio	Lower	Upper
106	100		
91	235.9	110.3	331.0

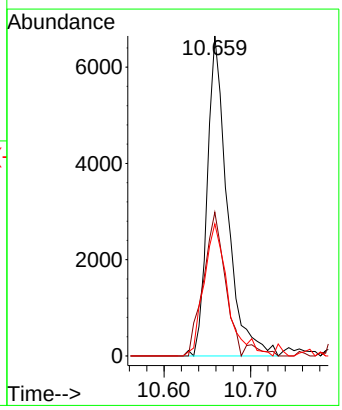


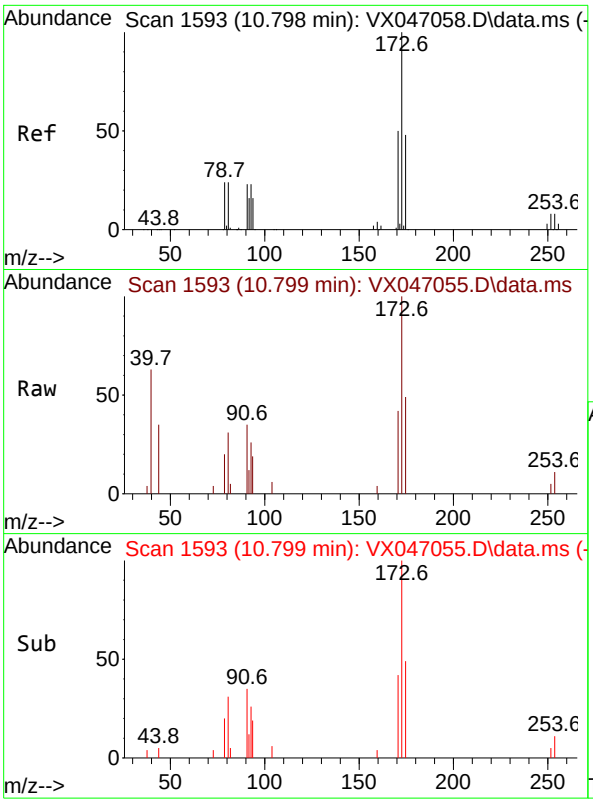


#70
Styrene
Concen: 0.819 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:104 Resp: 10704

Ion	Ratio	Lower	Upper
104	100		
78	48.6	42.0	63.0
103	49.0	43.8	65.6



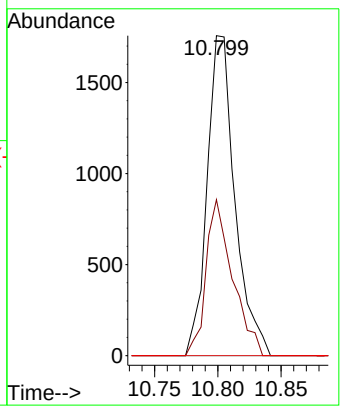


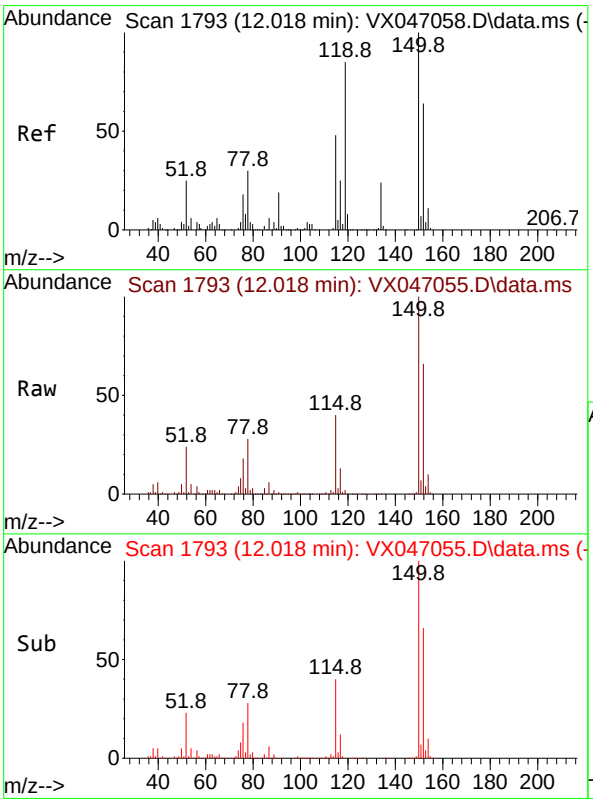
#71
Bromoform
Concen: 0.858 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 2687

Ion	Ratio	Lower	Upper
173	100		
175	46.5	24.2	72.6
254	0.0	0.1	0.1#

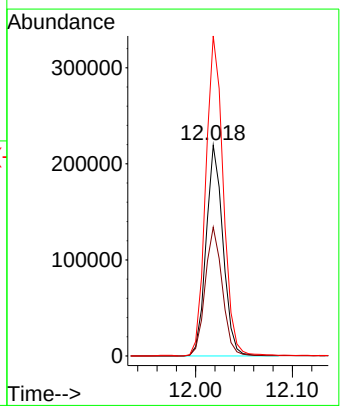


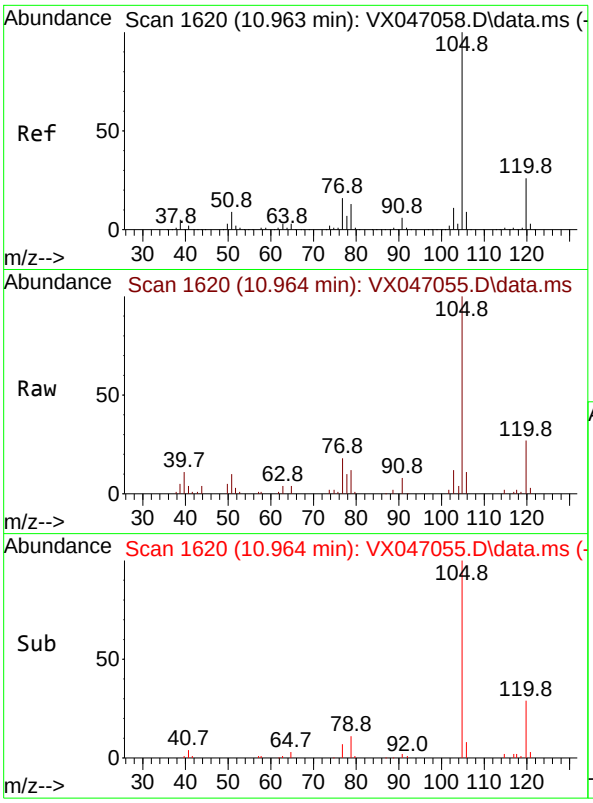


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:152 Resp: 266871

Ion	Ratio	Lower	Upper
152	100		
115	61.9	45.6	136.7
150	157.0	0.0	354.6



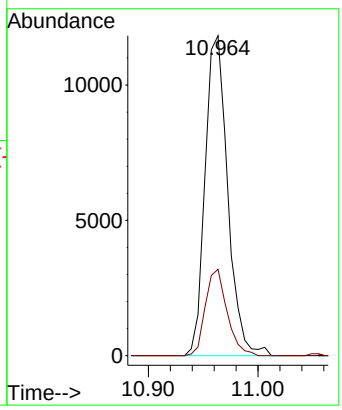


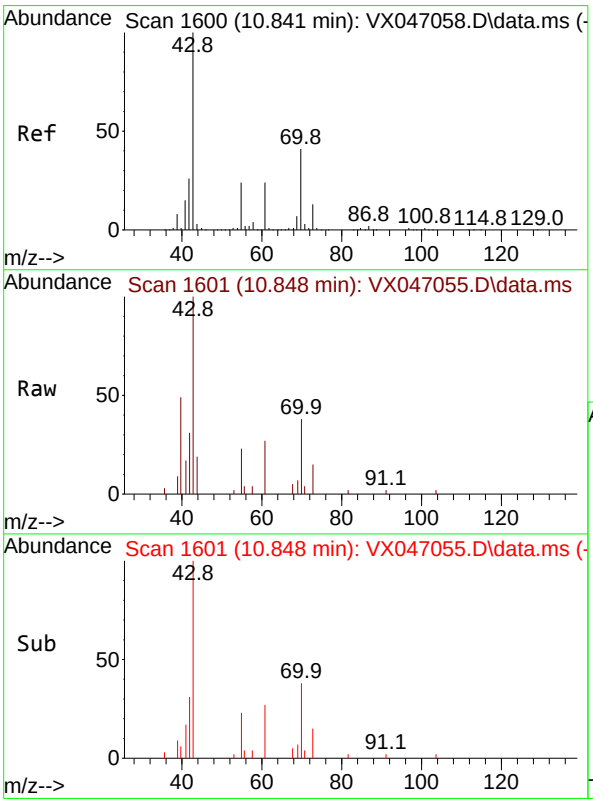
#73
Isopropylbenzene
Concen: 0.806 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 16971

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.7

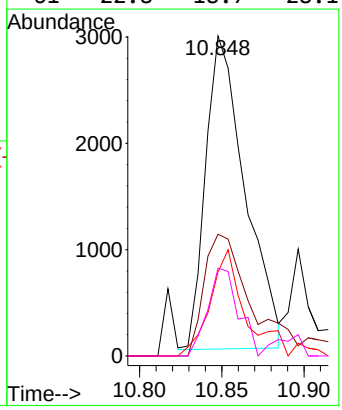


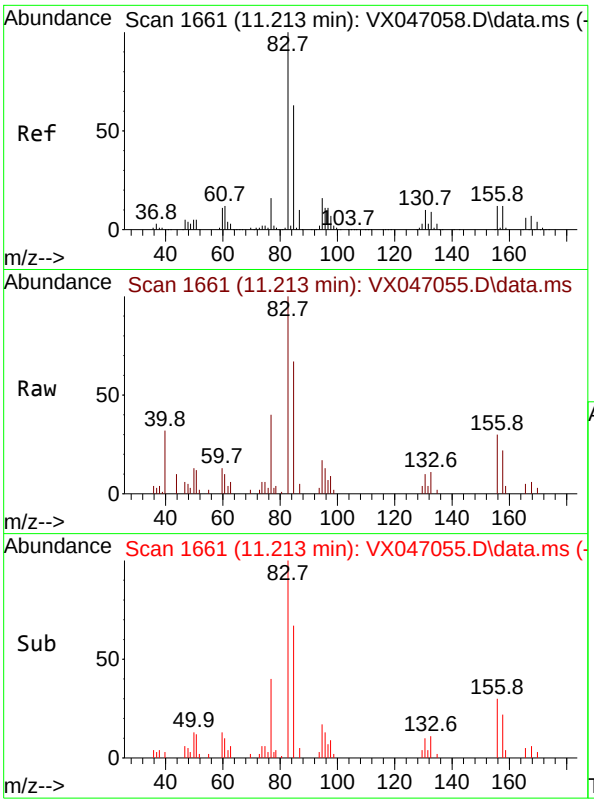


#74
N-amyl acetate
Concen: 0.585 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 43 Resp: 4913

Ion	Ratio	Lower	Upper
43	100		
70	49.2	32.3	48.5#
55	31.6	18.9	28.3#
61	22.8	18.7	28.1



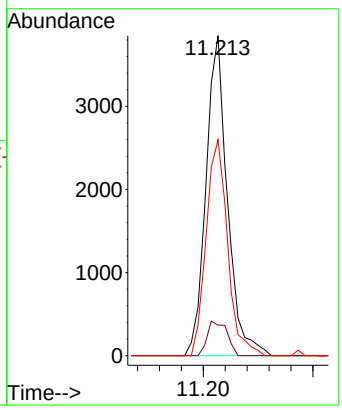


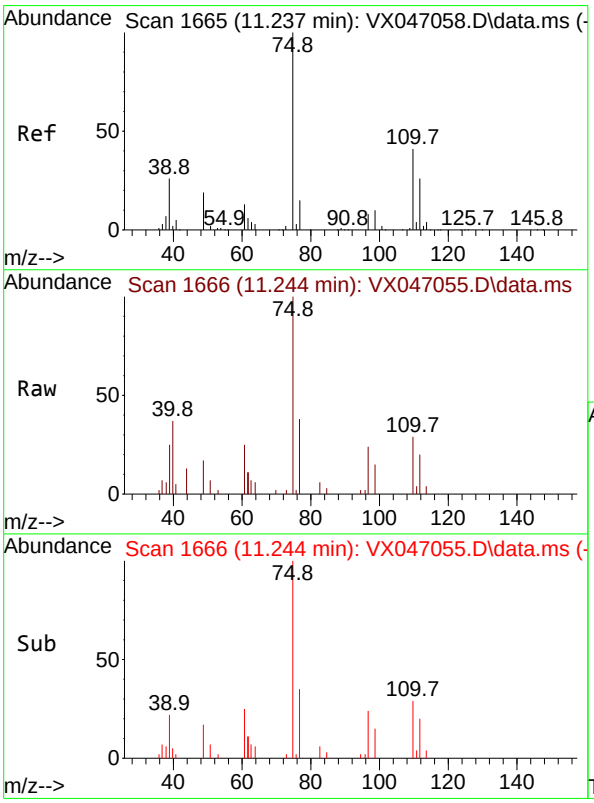
#75
1,1,2,2-Tetrachloroethane
Concen: 0.868 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 5223

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	67.6	32.0	96.2

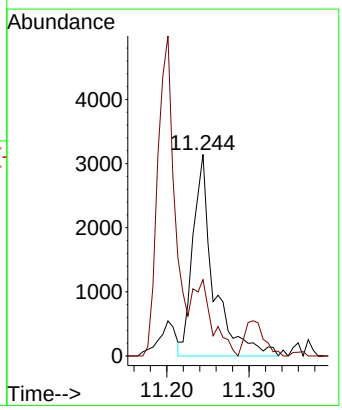


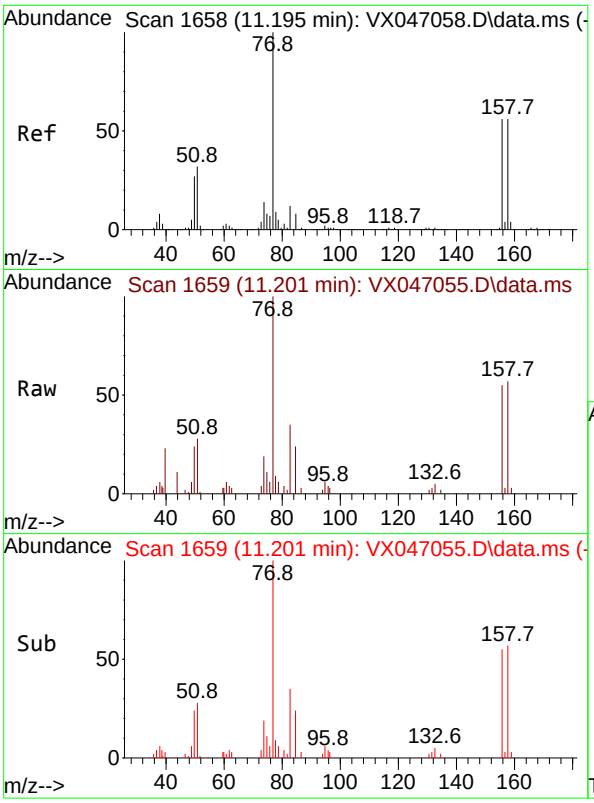


#76
1,2,3-Trichloropropane
Concen: 1.120 ug/l
RT: 11.244 min Scan# 1666
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 75 Resp: 5532

Ion	Ratio	Lower	Upper
75	100		
77	35.7	21.6	65.0



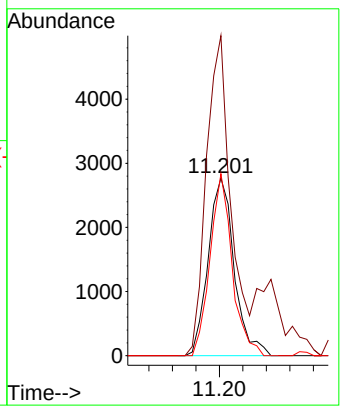


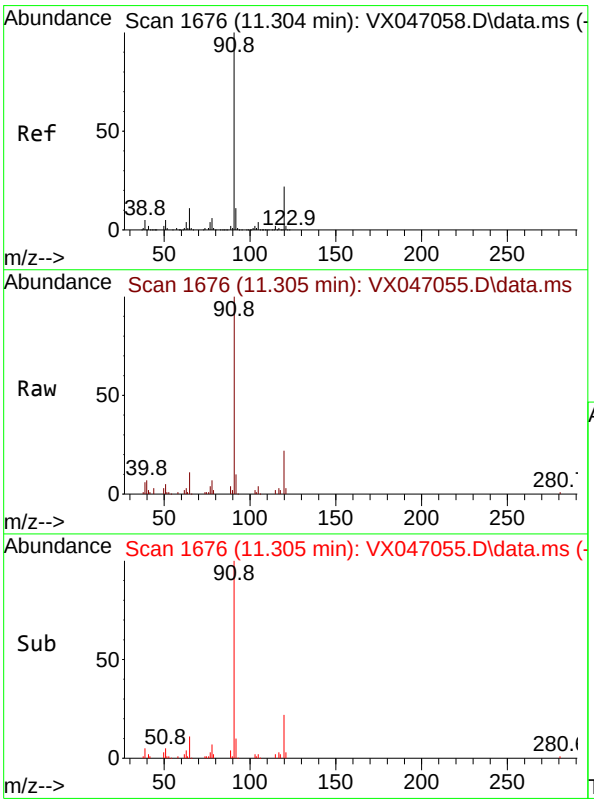
#77
Bromobenzene
Concen: 0.842 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:156 Resp: 4251

Ion	Ratio	Lower	Upper
156	100		
77	168.9	87.3	261.9
158	87.1	48.9	146.6

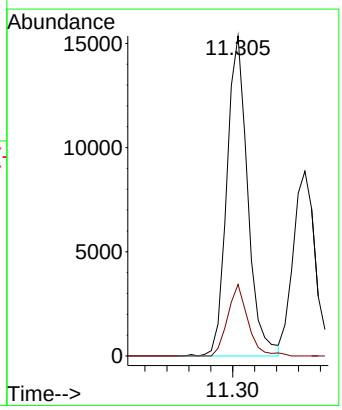


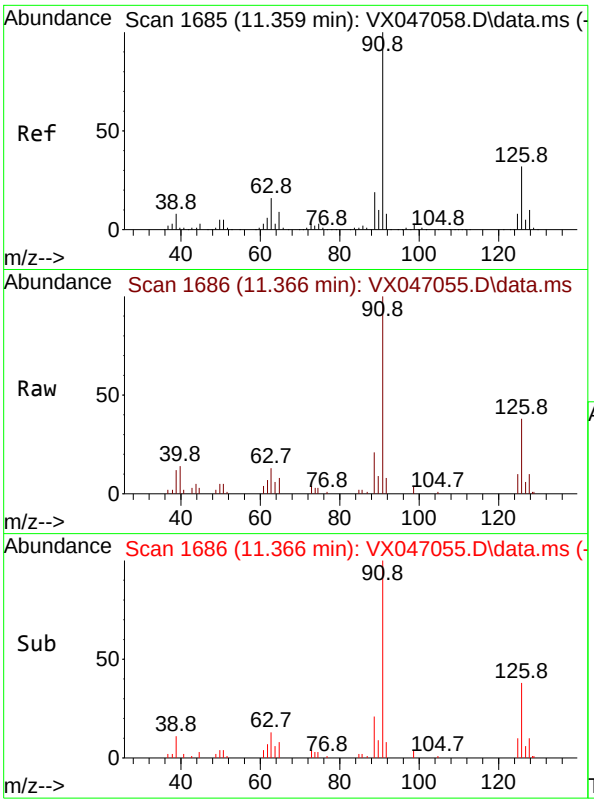


#78
n-propylbenzene
Concen: 0.805 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 91 Resp: 20259

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.0	33.0



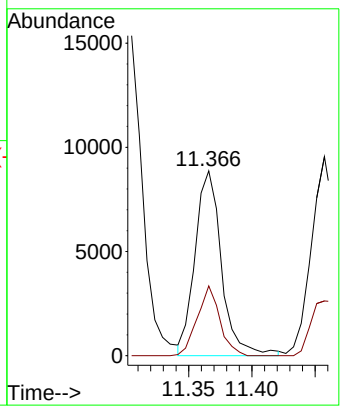


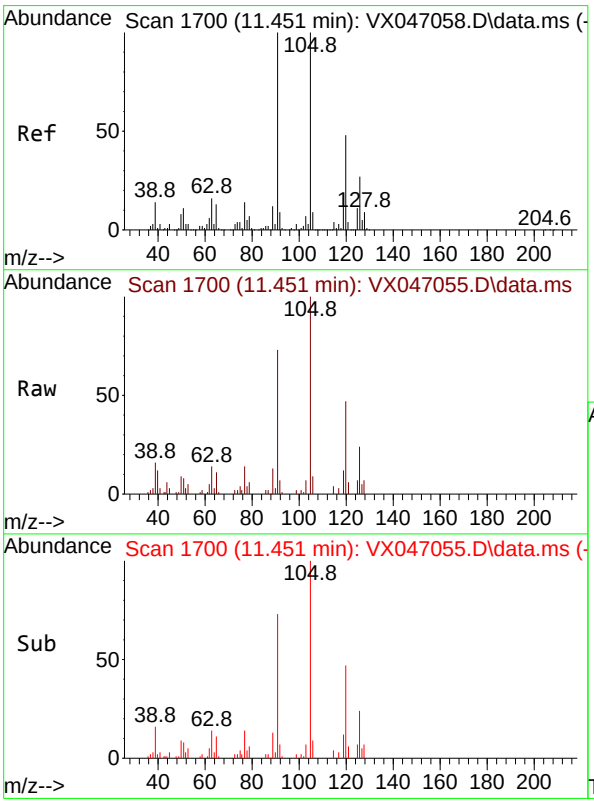
#79
2-Chlorotoluene
Concen: 0.862 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 12959

Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.4	49.4

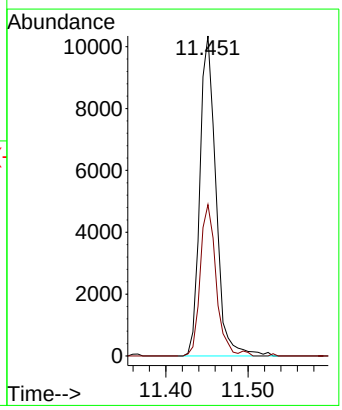


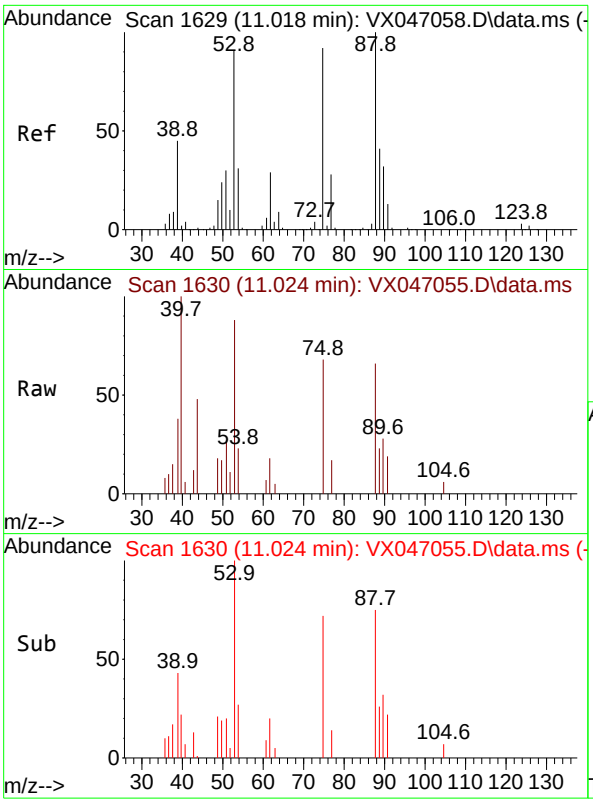


#80
1,3,5-Trimethylbenzene
Concen: 0.810 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:105 Resp: 14083

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.8	71.5



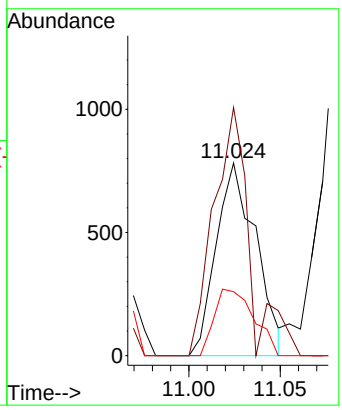


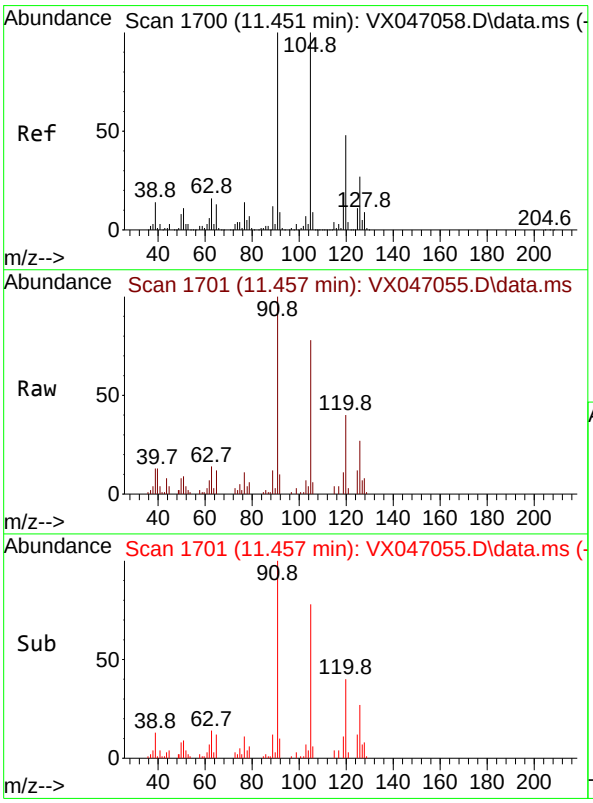
#81
trans-1,4-Dichloro-2-butene
Concen: 0.616 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 1181

Ion	Ratio	Lower	Upper
75	100		
53	116.1	84.2	126.4
89	34.5	36.0	54.0#

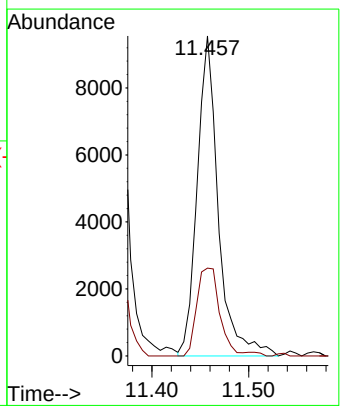


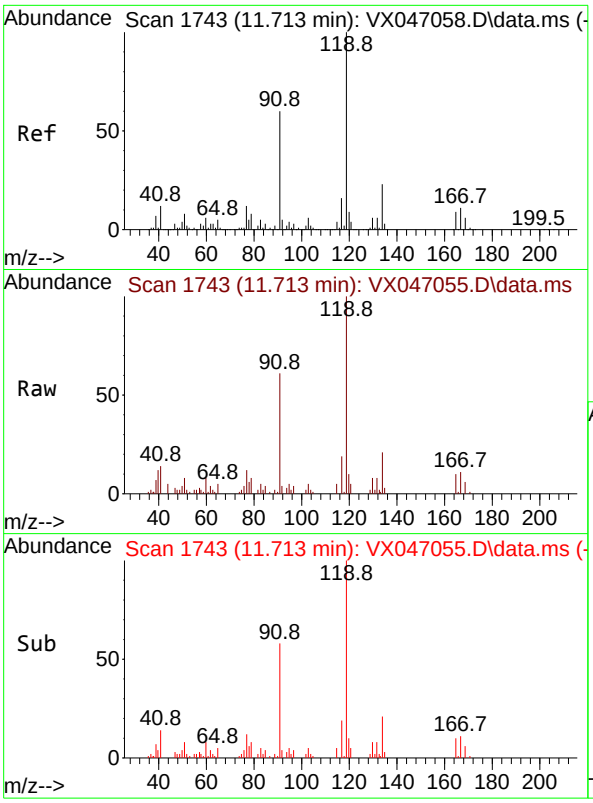


#82
4-Chlorotoluene
Concen: 0.827 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 91 Resp: 14521

Ion	Ratio	Lower	Upper
91	100		
126	29.6	14.1	42.3



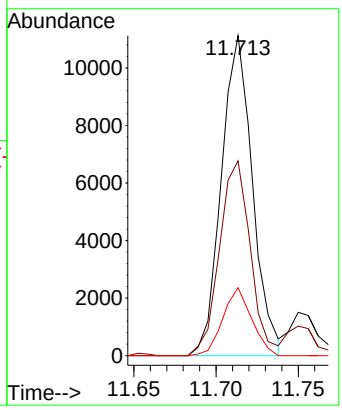


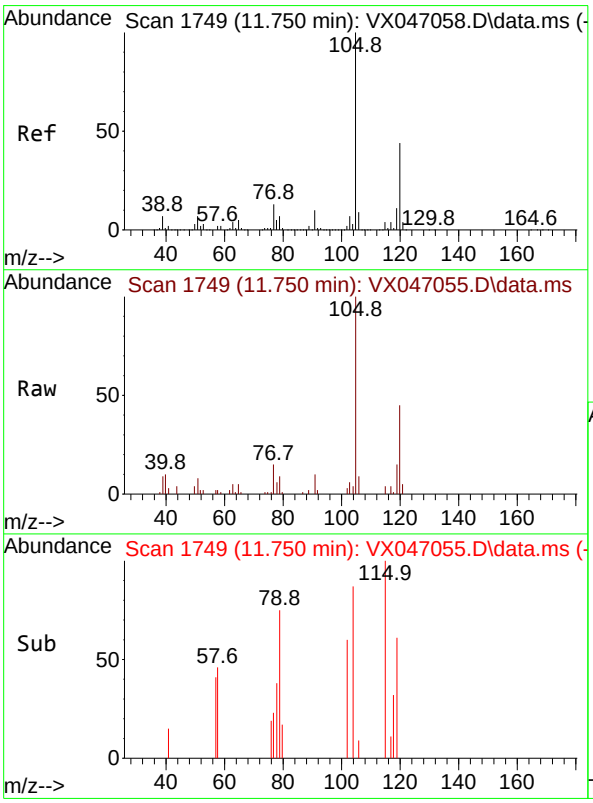
#83
tert-Butylbenzene
Concen: 0.839 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 14652

Ion	Ratio	Lower	Upper
119	100		
91	60.5	29.6	88.8
134	19.6	11.4	34.1

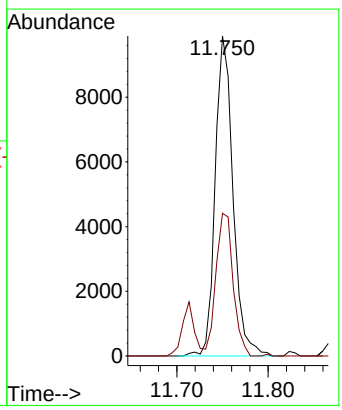


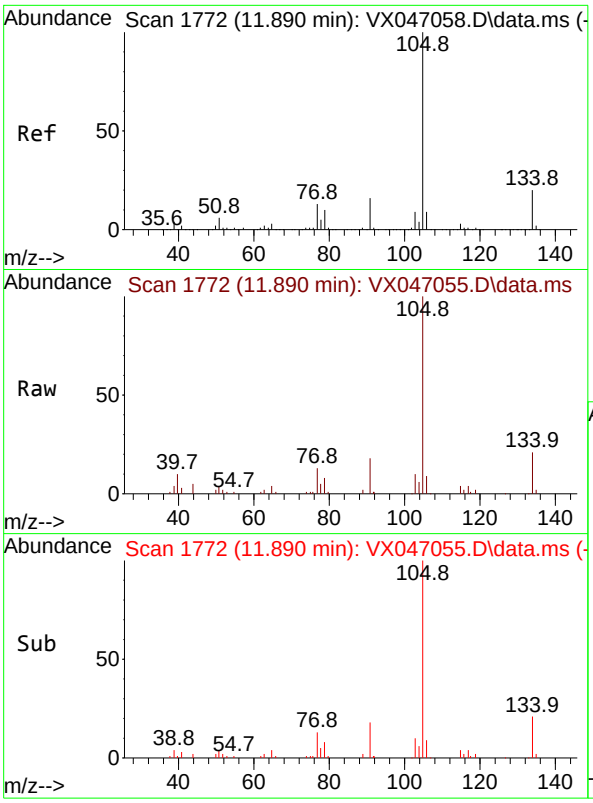


#84
1,2,4-Trimethylbenzene
Concen: 0.770 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:105 Resp: 13354

Ion	Ratio	Lower	Upper
105	100		
120	43.0	22.0	66.0



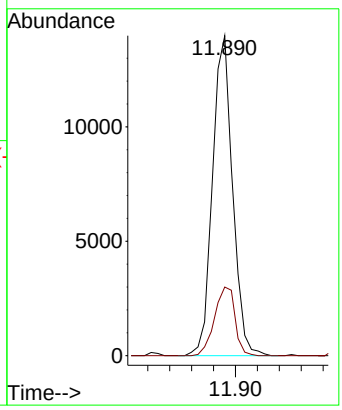


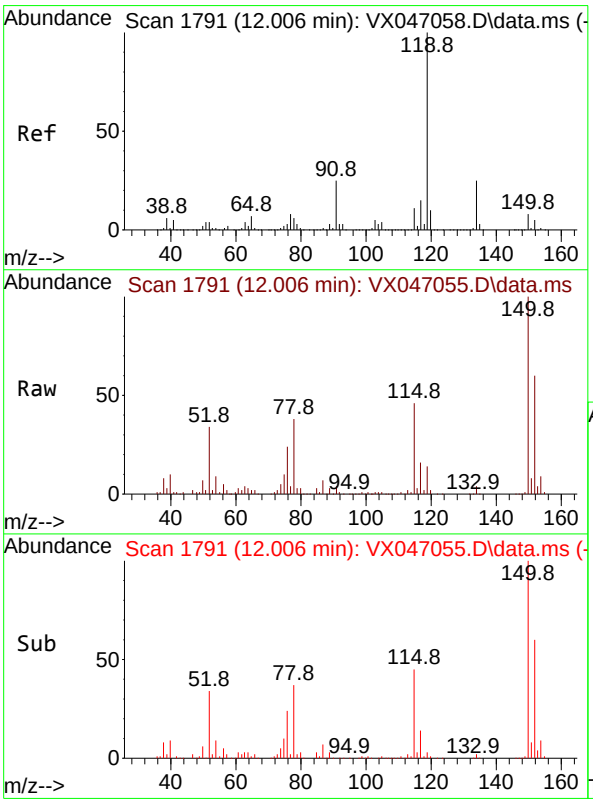
#85
sec-Butylbenzene
Concen: 0.814 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 17765

Ion	Ratio	Lower	Upper
105	100		
134	21.9	9.9	29.7

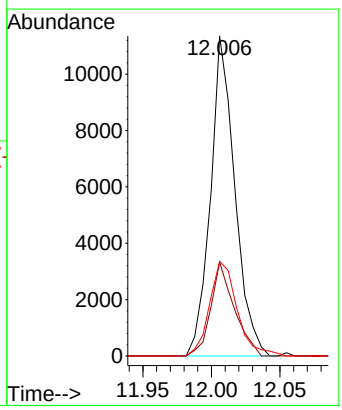


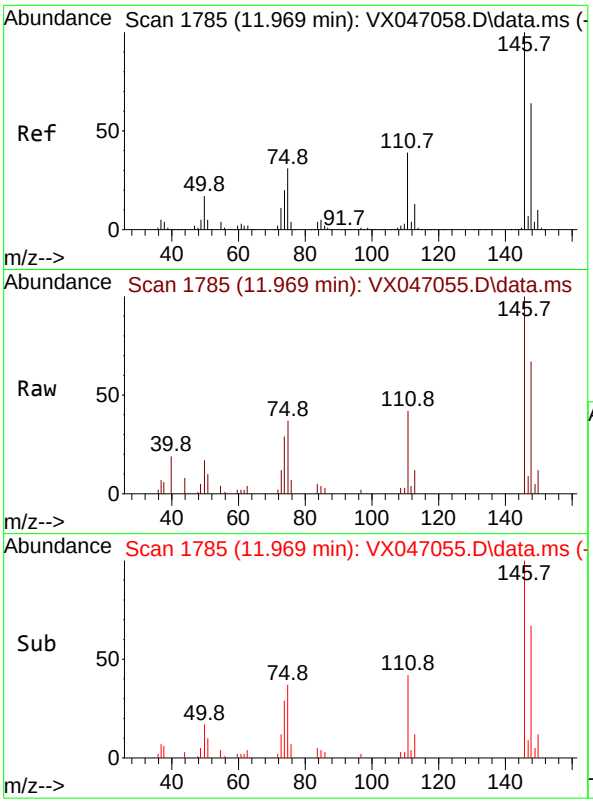


#86
p-Isopropyltoluene
Concen: 0.775 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:119 Resp: 14016

Ion	Ratio	Lower	Upper
119	100		
134	28.3	12.8	38.4
91	33.5	12.4	37.4



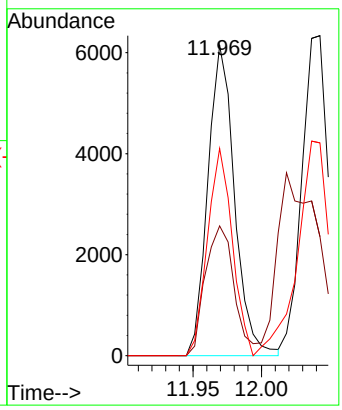


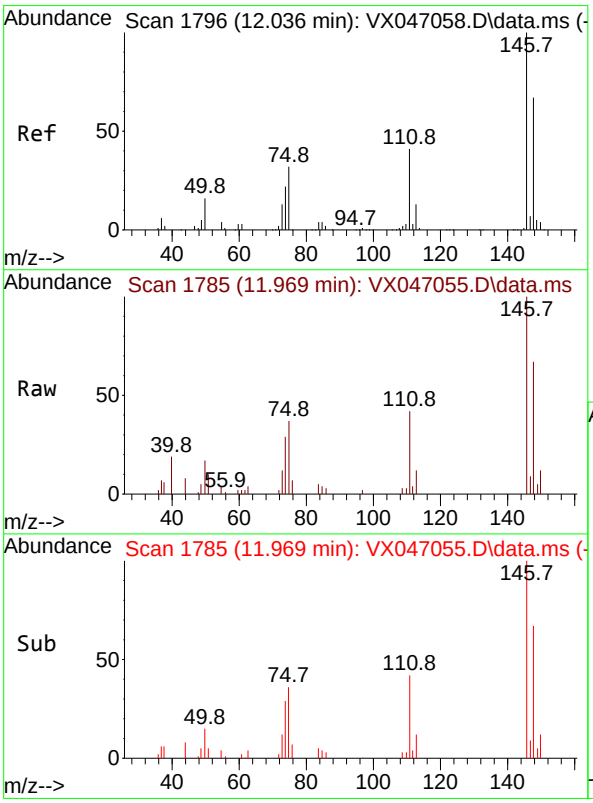
#87
1,3-Dichlorobenzene
Concen: 0.869 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 8335

Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.0	63.0
148	62.1	32.0	96.0

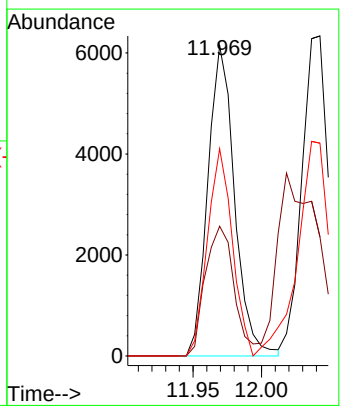


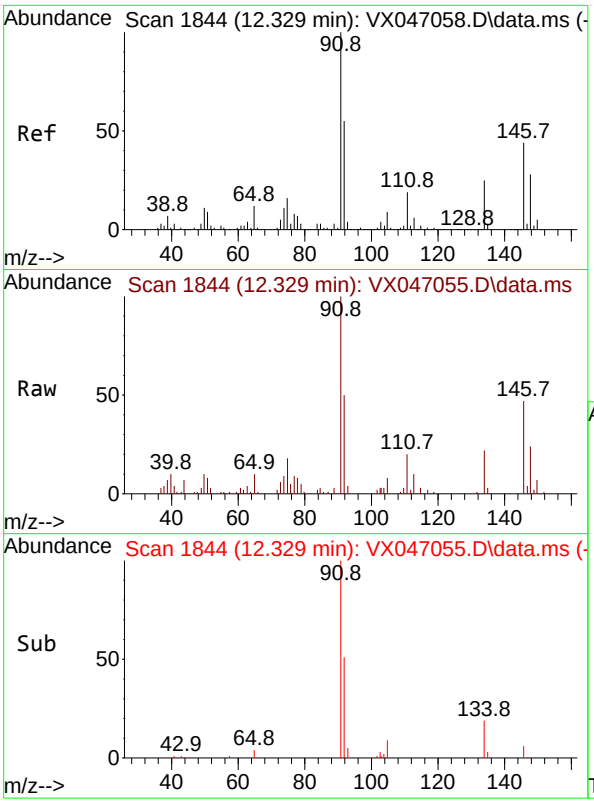


#88
1,4-Dichlorobenzene
Concen: 0.857 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.067 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:146 Resp: 8335

Ion	Ratio	Lower	Upper
146	100		
111	44.9	20.6	61.9
148	62.1	33.0	98.9



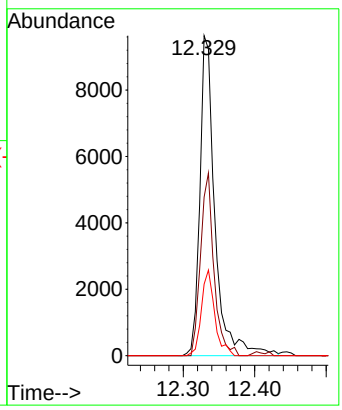


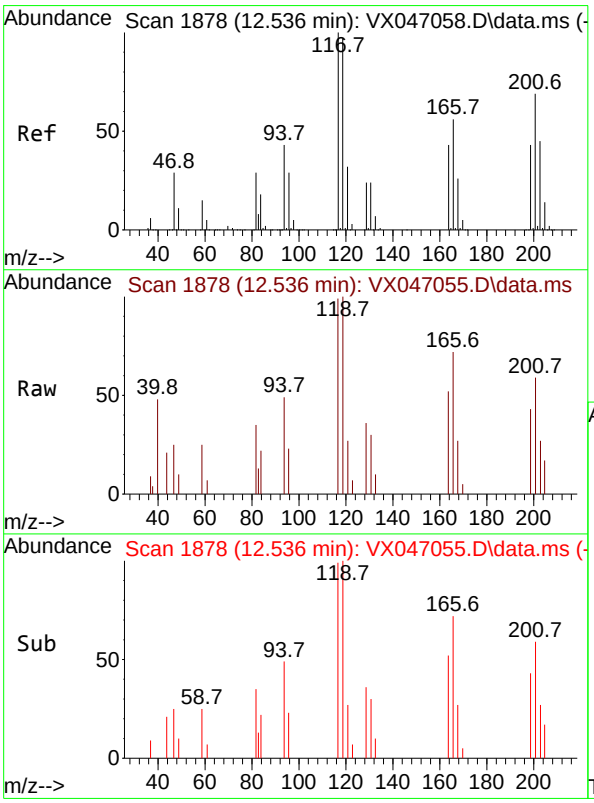
#89
n-Butylbenzene
Concen: 0.832 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 14116

Ion	Ratio	Lower	Upper
91	100		
92	50.6	27.5	82.5
134	23.6	12.8	38.3

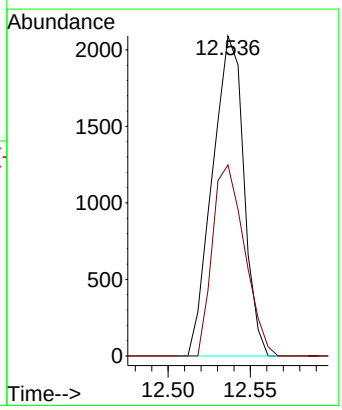


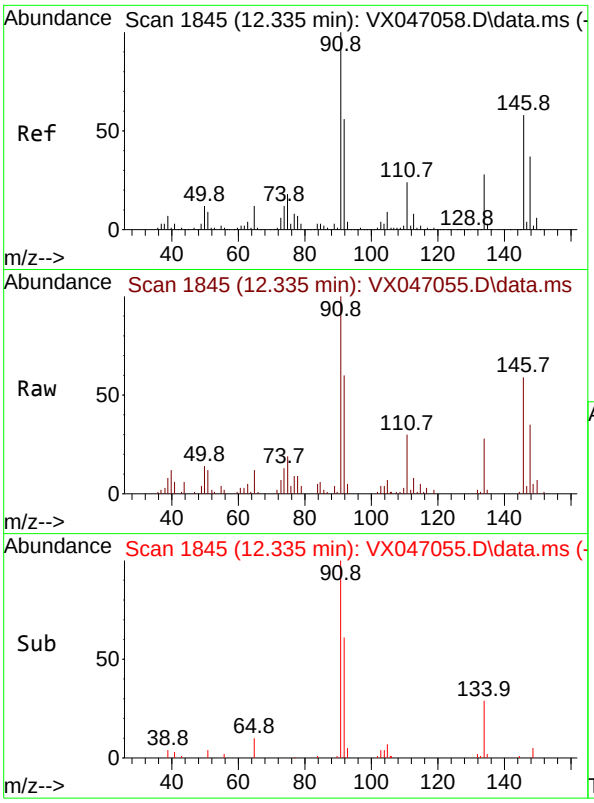


#90
Hexachloroethane
Concen: 0.857 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:117 Resp: 2772

Ion	Ratio	Lower	Upper
117	100		
201	61.4	34.8	104.5



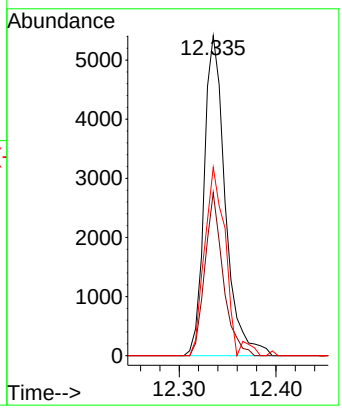


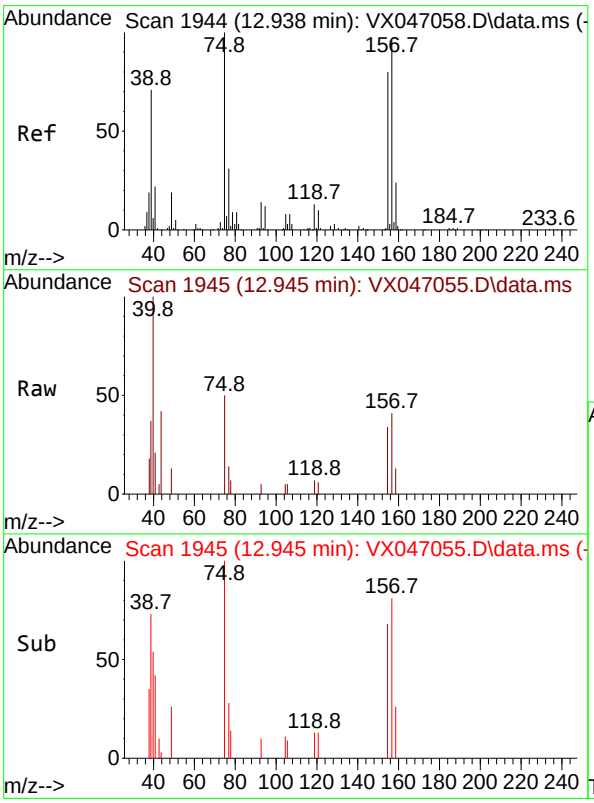
#91
1,2-Dichlorobenzene
Concen: 0.892 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 8184

Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.6	64.6
148	58.7	31.9	95.7

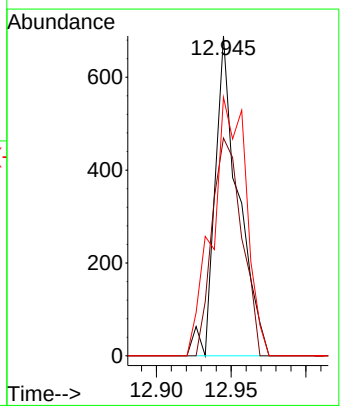


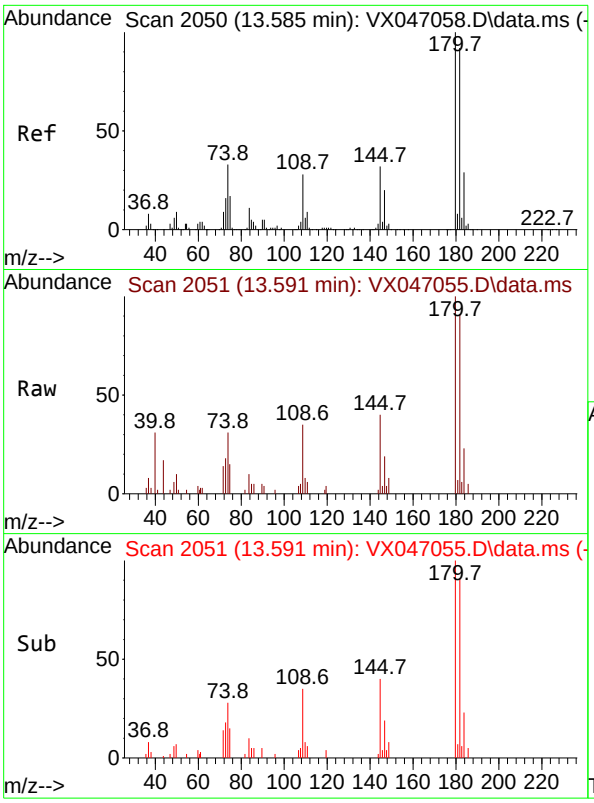


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.649 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion: 75 Resp: 749

Ion	Ratio	Lower	Upper
75	100		
155	86.6	41.3	124.1
157	117.2	52.8	158.3



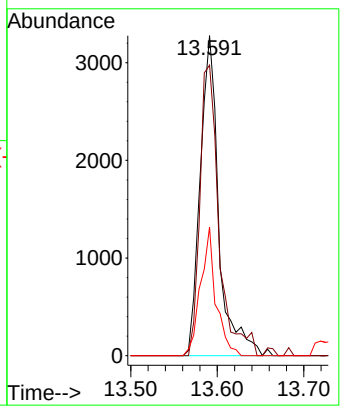


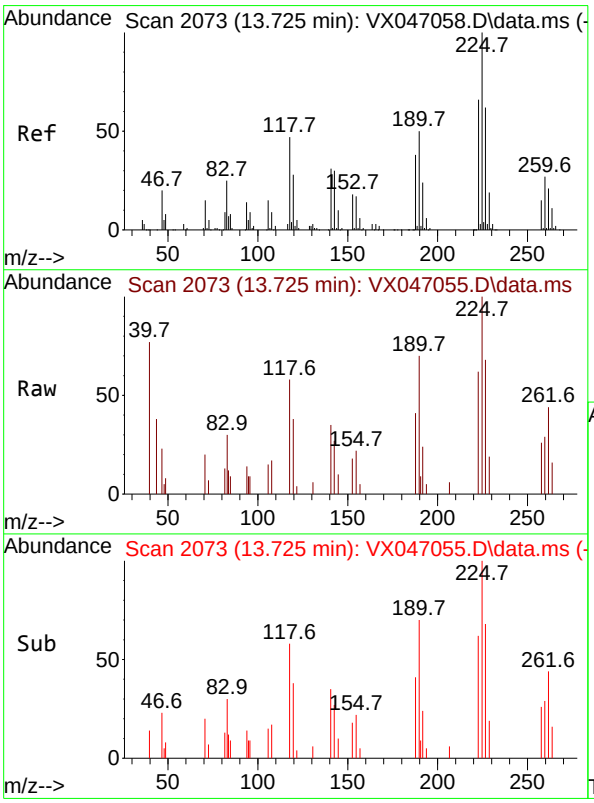
#93
1,2,4-Trichlorobenzene
Concen: 0.810 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 4906

Ion	Ratio	Lower	Upper
180	100		
182	92.4	47.3	141.8
145	33.2	16.4	49.1

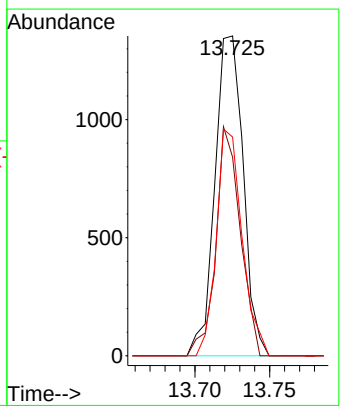


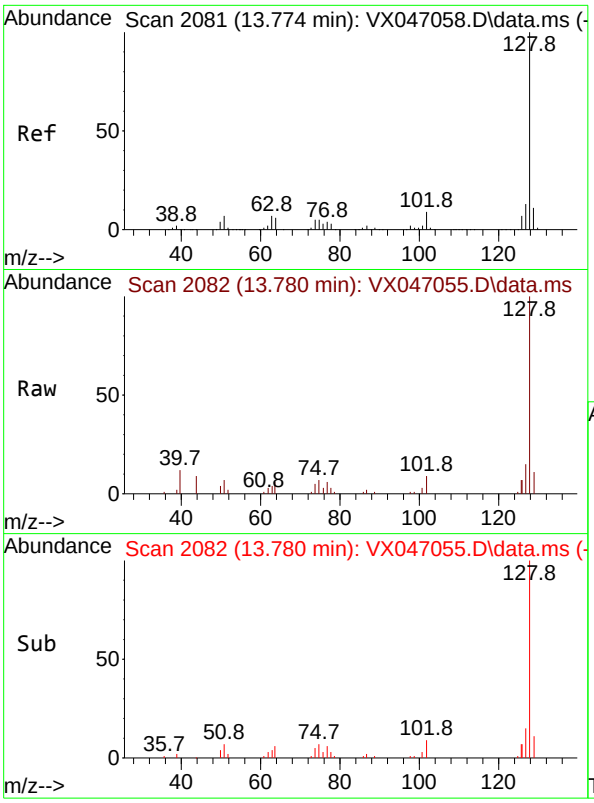


#94
Hexachlorobutadiene
Concen: 0.866 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:225 Resp: 1785

Ion	Ratio	Lower	Upper
225	100		
223	61.6	31.6	95.0
227	64.4	32.9	98.6



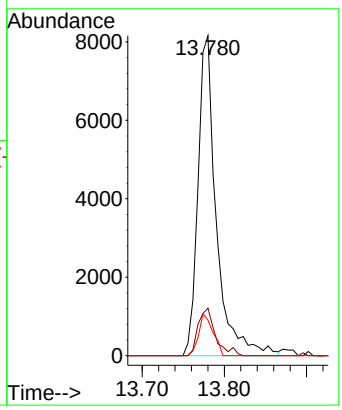


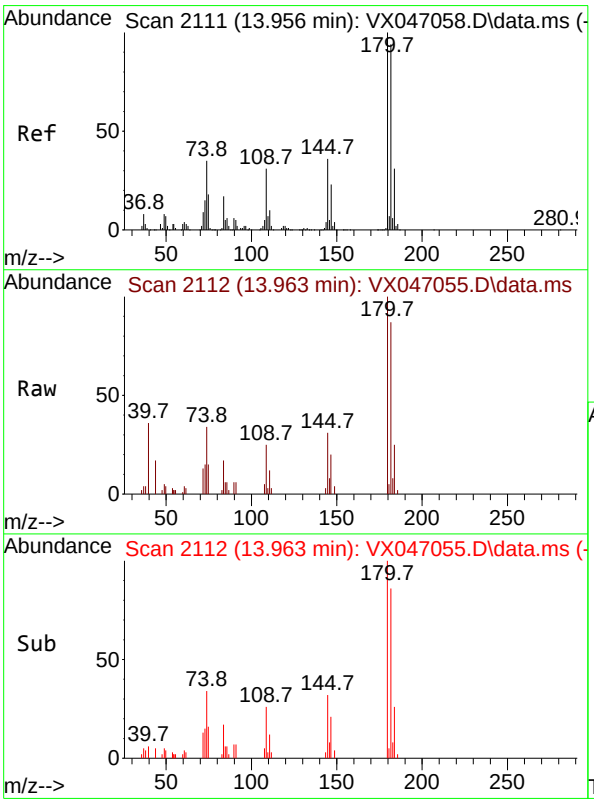
#95
Naphthalene
Concen: 0.712 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 12647

Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.1	15.1
129	10.1	8.6	13.0

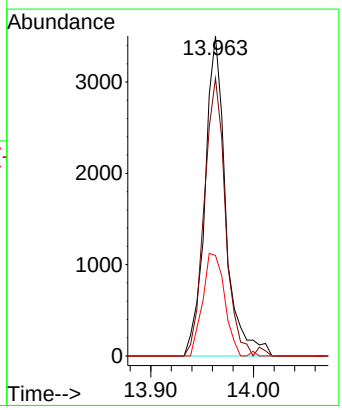




#96
1,2,3-Trichlorobenzene
Concen: 0.846 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.007 min
Lab File: VX047055.D
Acq: 21 Jul 2025 09:47

Tgt Ion:180 Resp: 4936

Ion	Ratio	Lower	Upper
180	100		
182	87.3	46.9	140.6
145	33.7	17.3	52.0



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047056.D
Acq On : 21 Jul 2025 10:08
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Jul 22 03:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	319458	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	542097	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	488683	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	246301	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	24550	6.169	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 12.340%#			
35) Dibromofluoromethane	5.403	113	19243	5.749	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 11.500%#			
50) Toluene-d8	8.652	98	70081	6.465	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 12.940%#			
62) 4-Bromofluorobenzene	11.079	95	27880	5.968	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 11.940%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	20453	4.820	ug/l	95
3) Chloromethane	1.306	50	21331	5.082	ug/l	97
4) Vinyl Chloride	1.385	62	23623	5.236	ug/l	100
5) Bromomethane	1.617	94	13048	5.324	ug/l	88
6) Chloroethane	1.702	64	15411	5.200	ug/l	98
7) Trichlorofluoromethane	1.904	101	35886	5.334	ug/l	96
8) Diethyl Ether	2.148	74	12607	5.315	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.343	101	21422	5.285	ug/l	98
10) Methyl Iodide	2.471	142	15201	3.680	ug/l	93
11) Tert butyl alcohol	2.964	59	17392	28.263	ug/l #	92
12) 1,1-Dichloroethene	2.337	96	21053	5.244	ug/l	91
13) Acrolein	2.251	56	21604	25.213	ug/l	99
14) Allyl chloride	2.678	41	38039	5.242	ug/l	99
15) Acrylonitrile	3.074	53	51340	27.051	ug/l	100
16) Acetone	2.391	43	42718	26.796	ug/l	99
17) Carbon Disulfide	2.526	76	61522	5.297	ug/l	100
18) Methyl Acetate	2.721	43	21905	5.171	ug/l	99
19) Methyl tert-butyl Ether	3.129	73	64256	5.259	ug/l	96
20) Methylene Chloride	2.806	84	23989	5.470	ug/l	93
21) trans-1,2-Dichloroethene	3.111	96	22396	5.451	ug/l	96
22) Diisopropyl ether	3.775	45	76458	5.480	ug/l	97
23) Vinyl Acetate	3.739	43	288230	25.756	ug/l	100
24) 1,1-Dichloroethane	3.623	63	42402	5.465	ug/l	96
25) 2-Butanone	4.574	43	60022	25.858	ug/l	97
26) 2,2-Dichloropropane	4.489	77	32298	5.378	ug/l	97
27) cis-1,2-Dichloroethene	4.507	96	26579	5.463	ug/l	98
28) Bromochloromethane	4.921	49	19435	5.445	ug/l	96
29) Tetrahydrofuran	5.031	42	39885	26.631	ug/l	96
30) Chloroform	5.110	83	43336	5.487	ug/l	93
31) Cyclohexane	5.482	56	38990	5.241	ug/l	97
32) 1,1,1-Trichloroethane	5.391	97	36920	5.382	ug/l	98
36) 1,1-Dichloropropene	5.702	75	28590	5.011	ug/l	98
37) Ethyl Acetate	4.739	43	22236	4.422	ug/l #	92
38) Carbon Tetrachloride	5.690	117	33199	5.452	ug/l	97
39) Methylcyclohexane	7.384	83	37547	5.271	ug/l	95
40) Benzene	6.049	78	89797	5.438	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047056.D
Acq On : 21 Jul 2025 10:08
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Jul 22 03:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	14018	5.100	ug/l		98
42) 1,2-Dichloroethane	6.092	62	31844	5.475	ug/l		96
43) Isopropyl Acetate	6.354	43	42946	5.240	ug/l		95
44) Trichloroethene	7.134	130	23153	5.468	ug/l		81
45) 1,2-Dichloropropane	7.439	63	22722	5.494	ug/l		93
46) Dibromomethane	7.592	93	16479	5.682	ug/l		97
47) Bromodichloromethane	7.823	83	33939	5.498	ug/l		99
48) Methyl methacrylate	7.701	41	21660	4.851	ug/l		99
49) 1,4-Dioxane	7.671	88	5549	109.271	ug/l	#	92
51) 4-Methyl-2-Pentanone	8.573	43	129413	26.565	ug/l		97
52) Toluene	8.720	92	56775	5.592	ug/l		100
53) t-1,3-Dichloropropene	8.982	75	29776	5.108	ug/l		94
54) cis-1,3-Dichloropropene	8.372	75	33127	5.193	ug/l		98
55) 1,1,2-Trichloroethane	9.152	97	21223	5.574	ug/l		97
56) Ethyl methacrylate	9.116	69	28587	5.072	ug/l		96
57) 1,3-Dichloropropane	9.311	76	37251	5.629	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	97443	31.066	ug/l		98
59) 2-Hexanone	9.433	43	84572	26.276	ug/l		99
60) Dibromochloromethane	9.518	129	24354	5.454	ug/l		99
61) 1,2-Dibromoethane	9.610	107	21578	5.420	ug/l		98
64) Tetrachloroethene	9.274	164	19701	5.592	ug/l		96
65) Chlorobenzene	10.079	112	63268	5.526	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.164	131	20300	5.267	ug/l		99
67) Ethyl Benzene	10.195	91	106984	5.345	ug/l		96
68) m/p-Xylenes	10.299	106	80835	10.791	ug/l		99
69) o-Xylene	10.640	106	40071	5.623	ug/l		94
70) Styrene	10.658	104	66283	5.424	ug/l		100
71) Bromoform	10.798	173	15763	5.384	ug/l	#	97
73) Isopropylbenzene	10.963	105	102157	5.257	ug/l		97
74) N-amyl acetate	10.841	43	36965	4.769	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	29627	5.338	ug/l		99
76) 1,2,3-Trichloropropane	11.237	75	30322	6.651	ug/l		83
77) Bromobenzene	11.195	156	24549	5.267	ug/l		95
78) n-propylbenzene	11.304	91	124648	5.368	ug/l		100
79) 2-Chlorotoluene	11.365	91	74781	5.387	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	86414	5.383	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	7407	4.186	ug/l		86
82) 4-Chlorotoluene	11.457	91	88304	5.450	ug/l		99
83) tert-Butylbenzene	11.713	119	84560	5.248	ug/l		97
84) 1,2,4-Trimethylbenzene	11.749	105	87289	5.451	ug/l		99
85) sec-Butylbenzene	11.890	105	110255	5.477	ug/l		100
86) p-Isopropyltoluene	12.006	119	91112	5.457	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	48466	5.473	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	48817	5.441	ug/l		95
89) n-Butylbenzene	12.329	91	81710	5.219	ug/l		99
90) Hexachloroethane	12.536	117	14794	4.953	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	46129	5.450	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	5485	5.148	ug/l		95
93) 1,2,4-Trichlorobenzene	13.585	180	29296	5.239	ug/l		99
94) Hexachlorobutadiene	13.719	225	9742	5.122	ug/l		91
95) Naphthalene	13.774	128	79568	4.854	ug/l		99
96) 1,2,3-Trichlorobenzene	13.962	180	27584	5.120	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047056.D
Acq On : 21 Jul 2025 10:08
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Jul 22 03:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

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

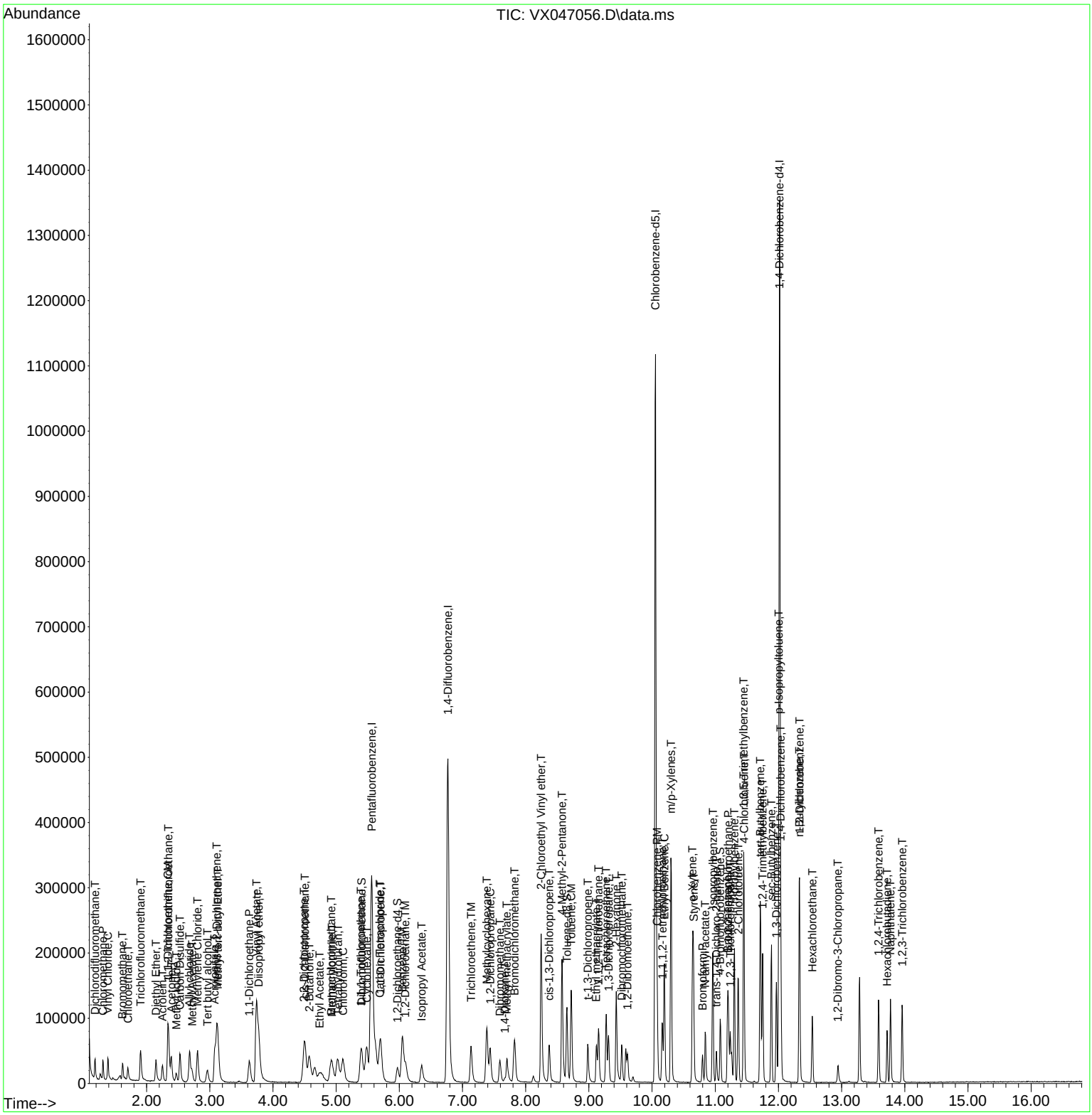
(#) = qualifier out of range (m) = manual integration (+) = signals summed

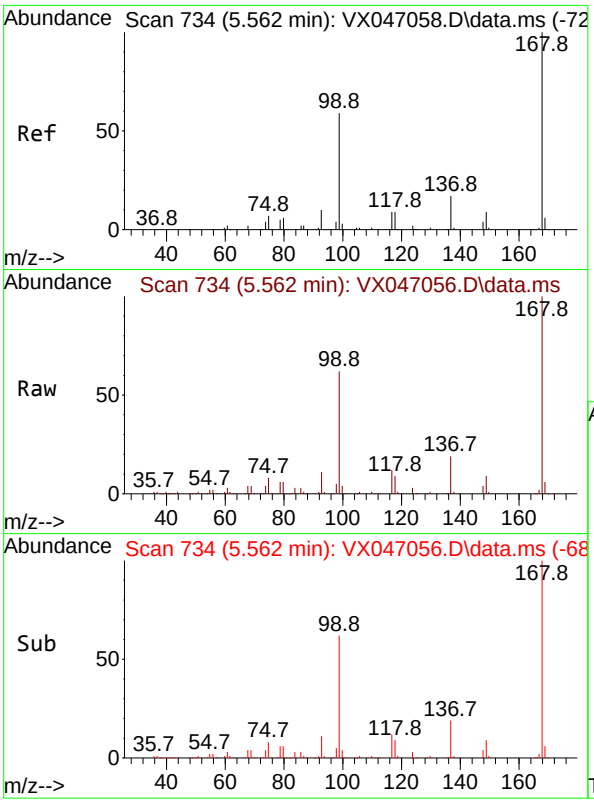
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047056.D
Acq On : 21 Jul 2025 10:08
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Jul 22 03:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration



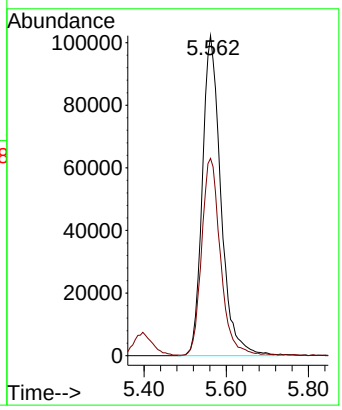


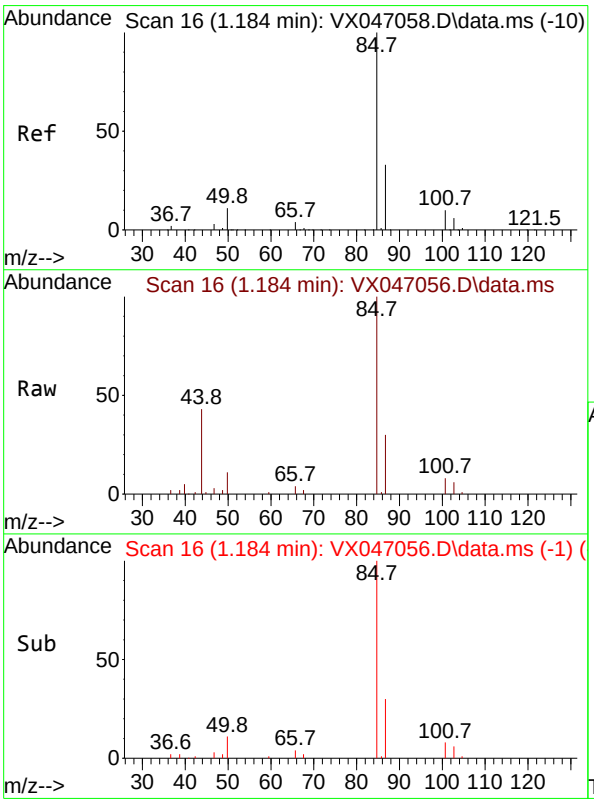
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 319458

Ion	Ratio	Lower	Upper
168	100		
99	61.5	48.0	72.0

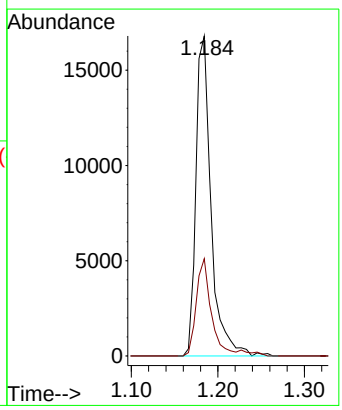


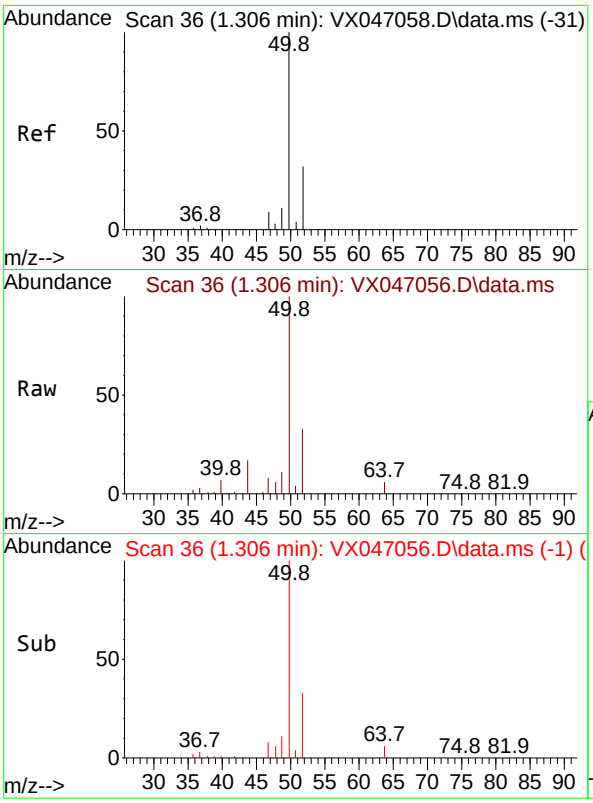


#2
Dichlorodifluoromethane
Concen: 4.820 ug/l
RT: 1.184 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 85 Resp: 20453

Ion	Ratio	Lower	Upper
85	100		
87	30.4	16.6	49.8



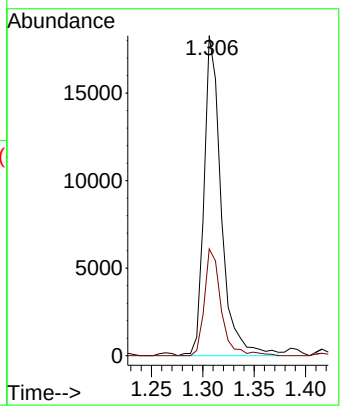


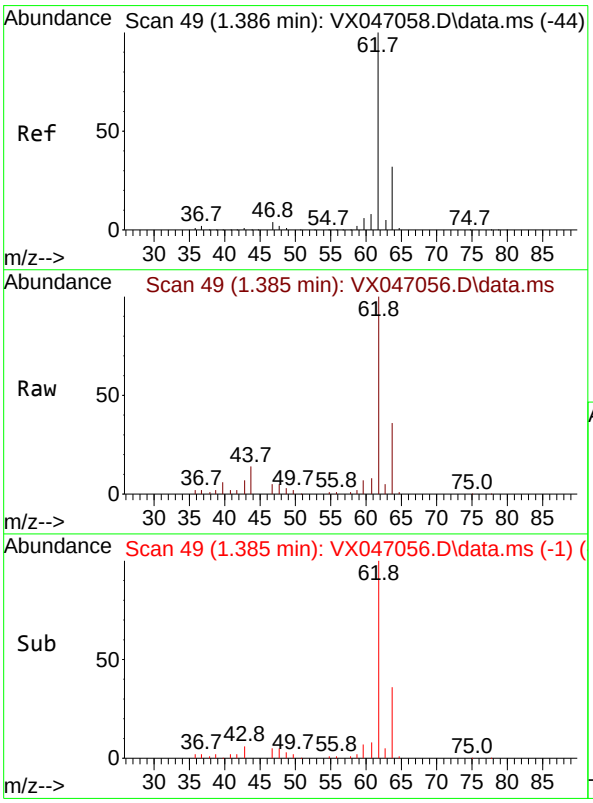
#3
Chloromethane
Concen: 5.082 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 21331

Ion	Ratio	Lower	Upper
50	100		
52	33.4	25.4	38.2

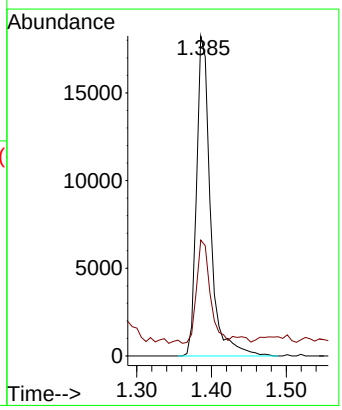


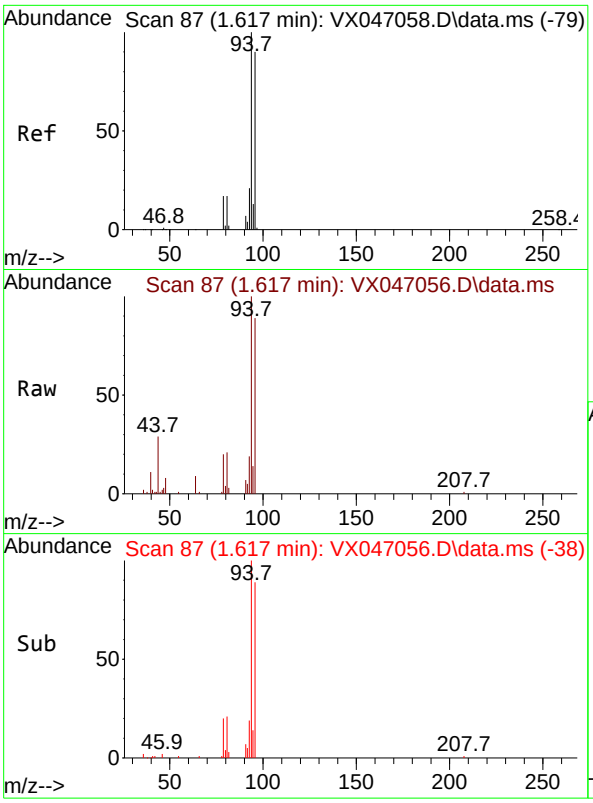


#4
Vinyl Chloride
Concen: 5.236 ug/l
RT: 1.385 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 62 Resp: 23623

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.2	37.8



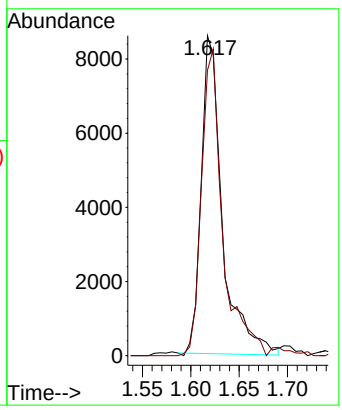


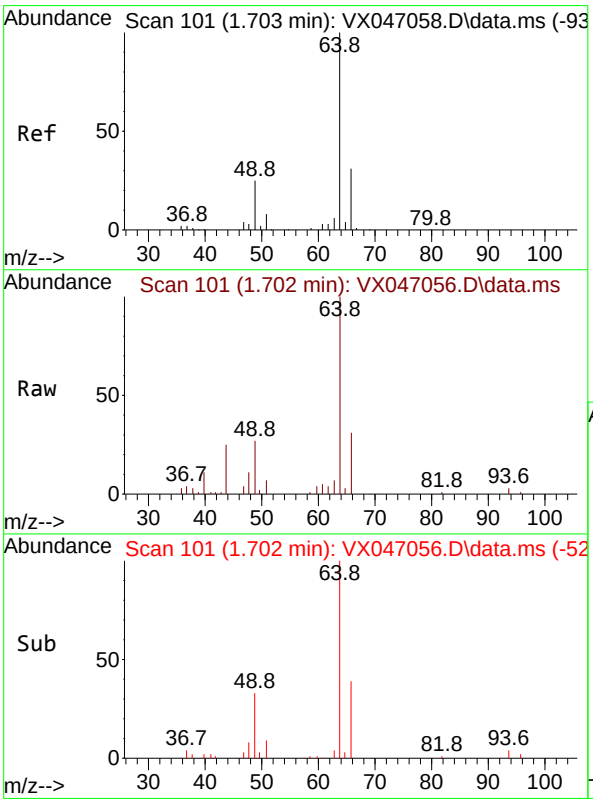
#5
Bromomethane
Concen: 5.324 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 13048

Ion	Ratio	Lower	Upper
94	100		
96	79.1	72.3	108.5

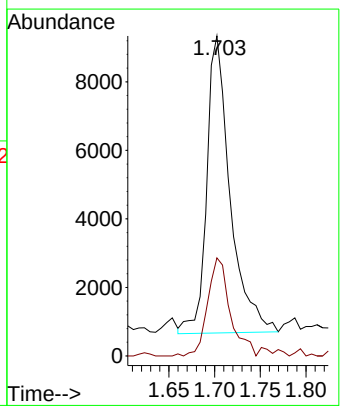


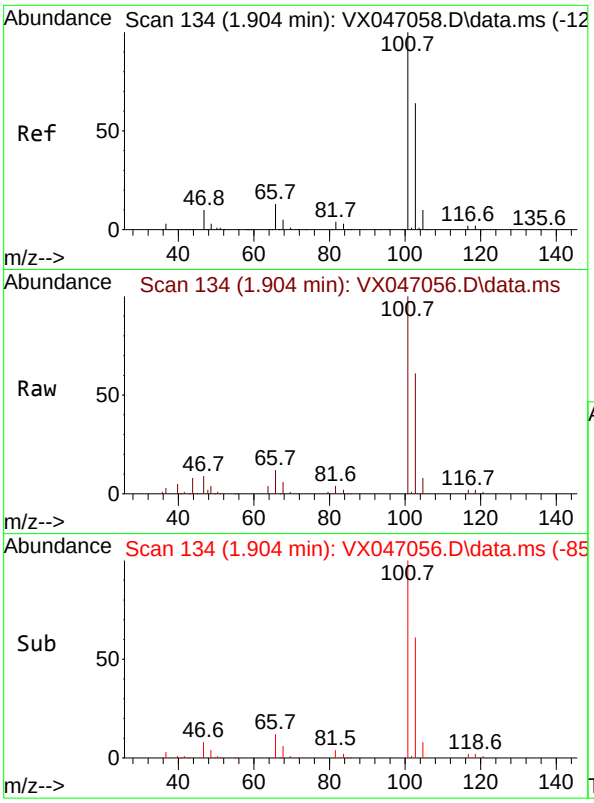


#6
Chloroethane
Concen: 5.200 ug/l
RT: 1.702 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 64 Resp: 15411

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.0	37.6



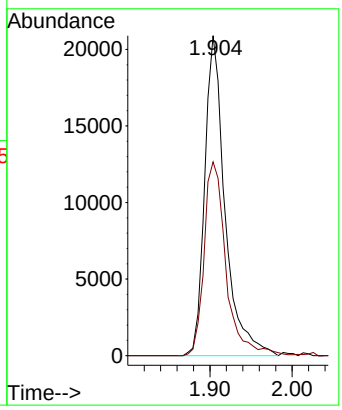


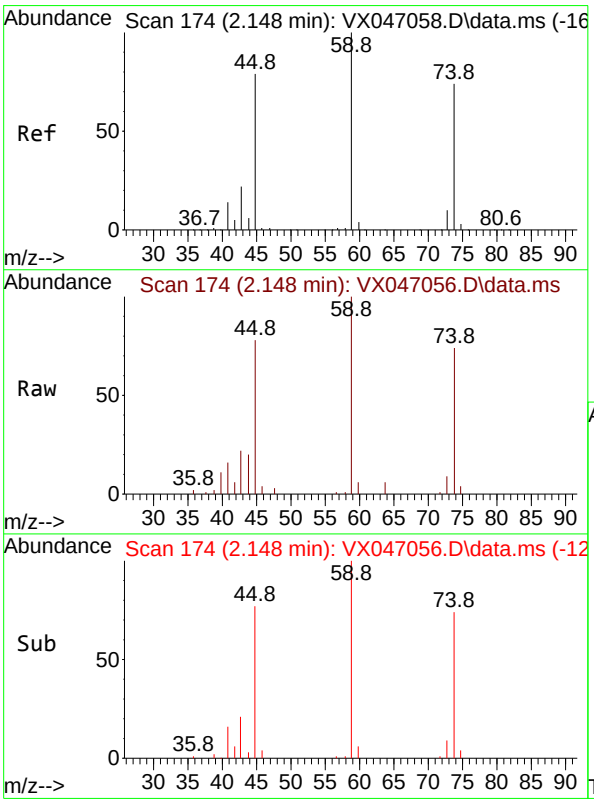
#7
Trichlorofluoromethane
Concen: 5.334 ug/l
RT: 1.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 35886

Ion	Ratio	Lower	Upper
101	100		
103	60.5	50.9	76.3

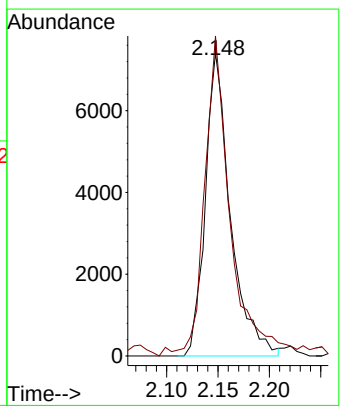


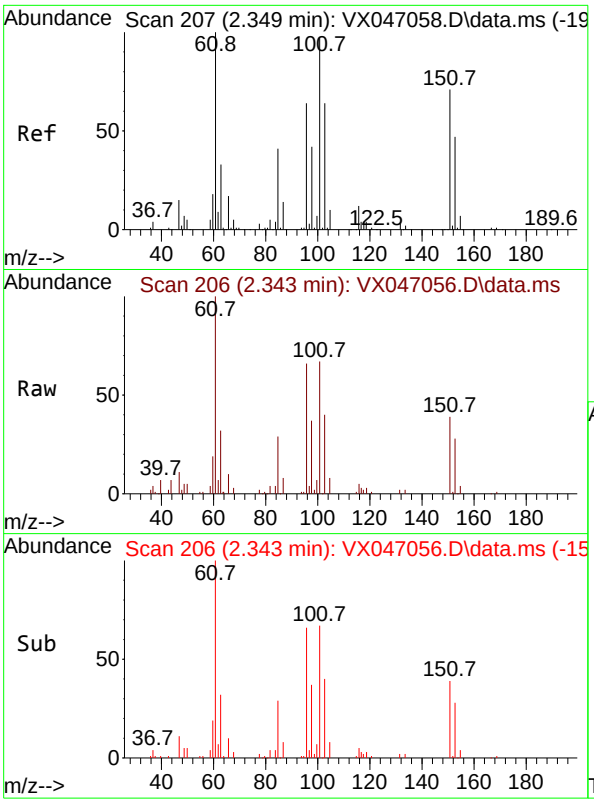


#8
Diethyl Ether
Concen: 5.315 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 74 Resp: 12607

Ion	Ratio	Lower	Upper
74	100		
45	107.9	53.0	159.0



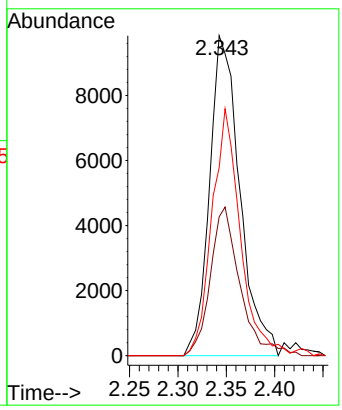


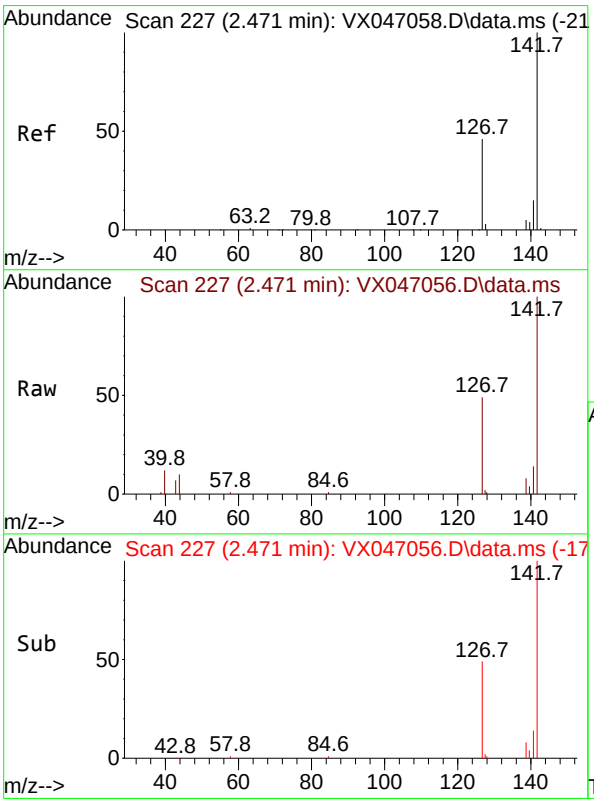
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.285 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 21422

Ion	Ratio	Lower	Upper
101	100		
85	45.7	35.4	53.0
151	72.1	59.2	88.8

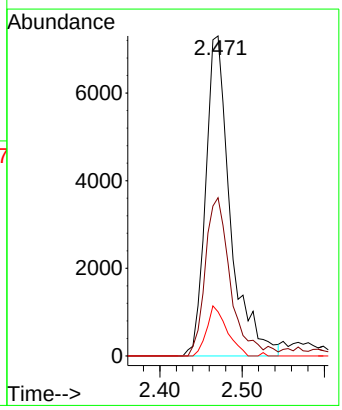


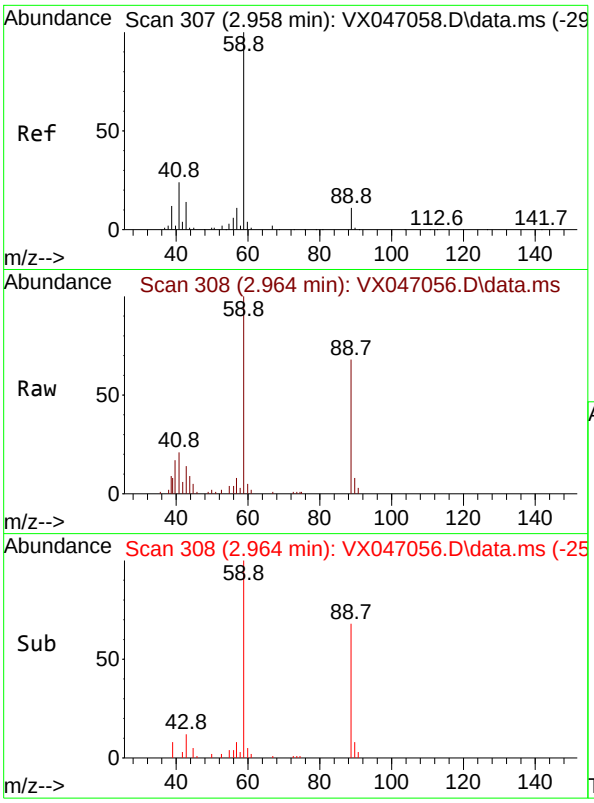


#10
Methyl Iodide
Concen: 3.680 ug/l
RT: 2.471 min Scan# 227
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:142 Resp: 15201

Ion	Ratio	Lower	Upper
142	100		
127	51.0	36.6	54.8
141	12.8	10.9	16.3



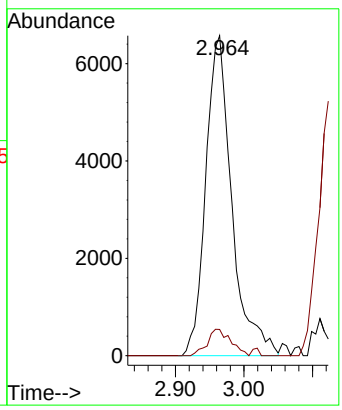


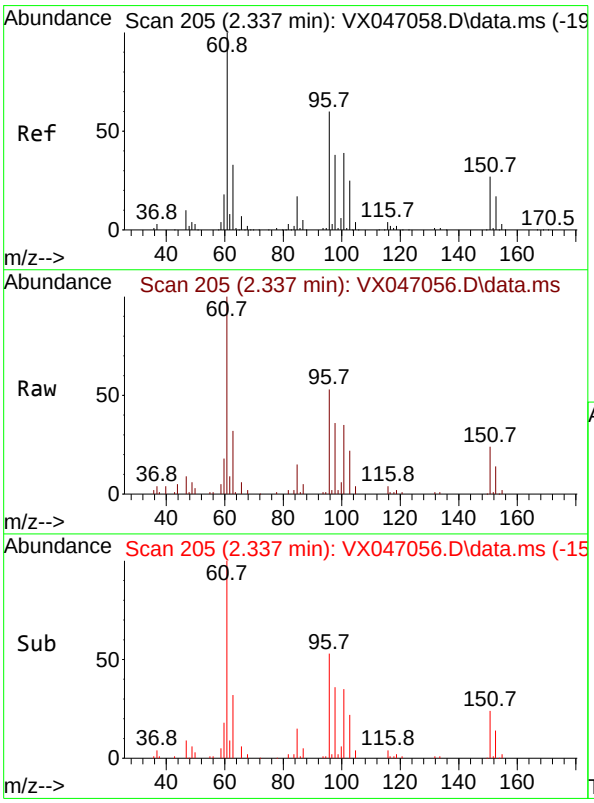
#11
Tert butyl alcohol
Concen: 28.263 ug/l
RT: 2.964 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 17392

Ion	Ratio	Lower	Upper
59	100		
57	7.4	8.5	12.7#

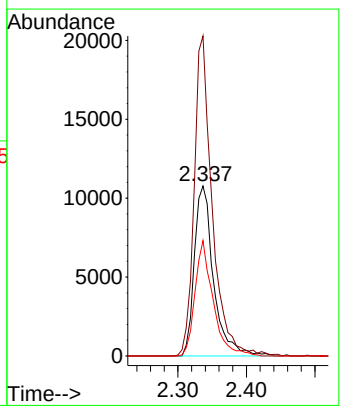


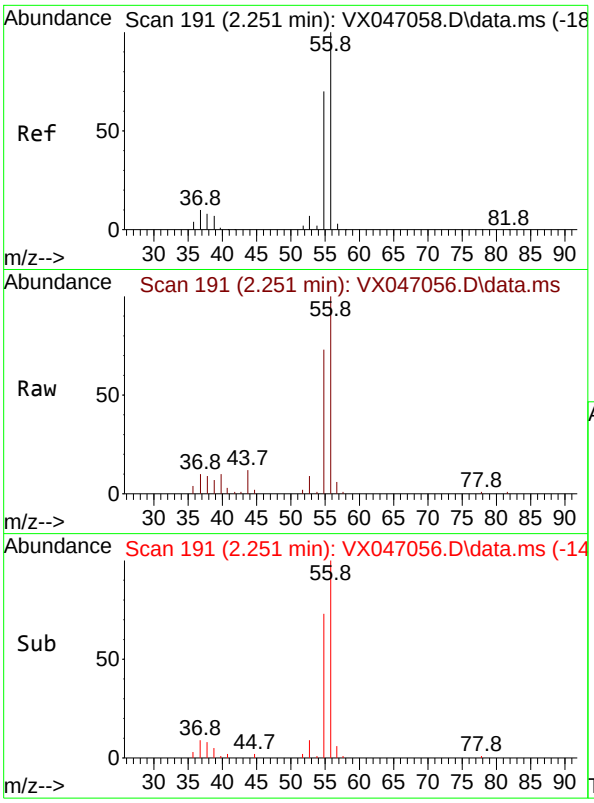


#12
1,1-Dichloroethene
Concen: 5.244 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 96 Resp: 21053

Ion	Ratio	Lower	Upper
96	100		
61	180.6	132.6	198.8
98	65.4	50.2	75.4



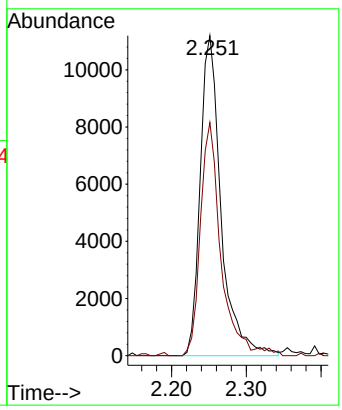


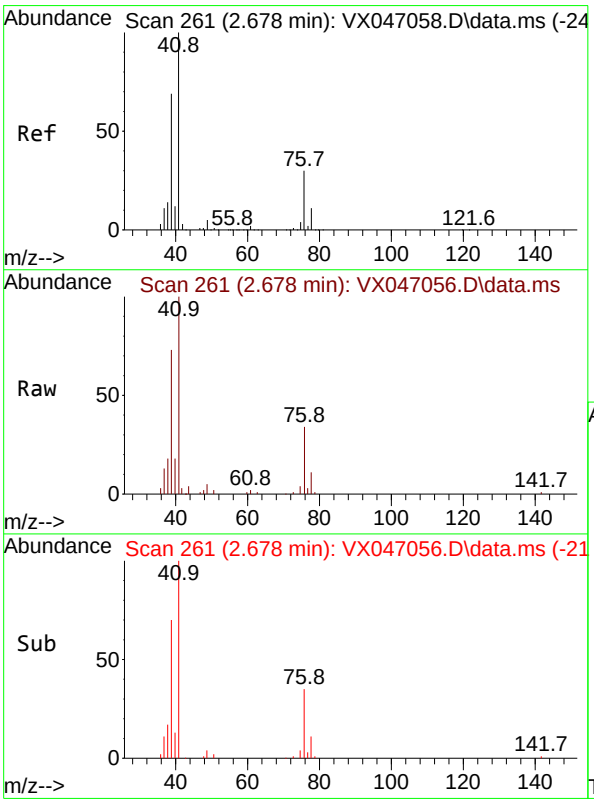
#13
Acrolein
Concen: 25.213 ug/l
RT: 2.251 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 21604

Ion	Ratio	Lower	Upper
56	100		
55	70.2	55.7	83.5

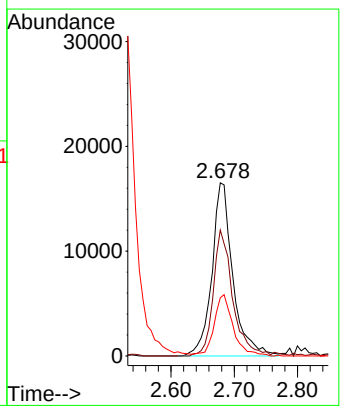


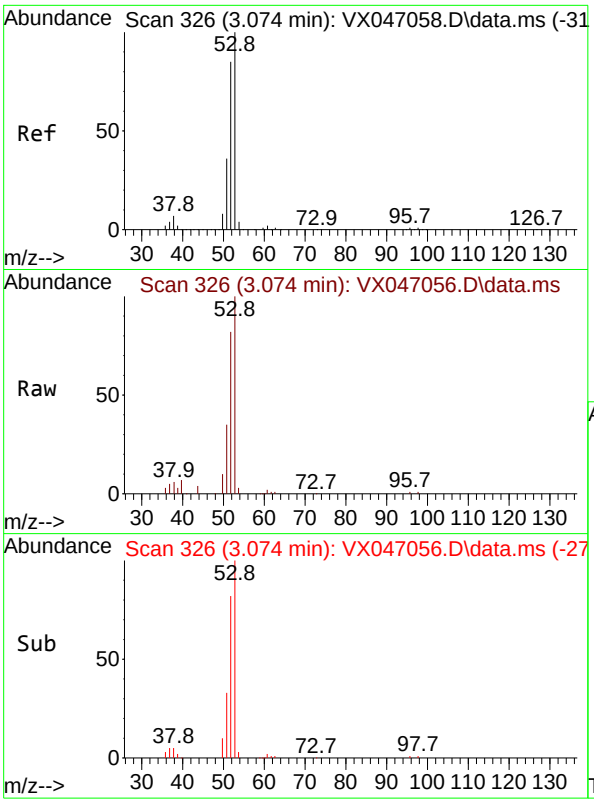


#14
Allyl chloride
Concen: 5.242 ug/l
RT: 2.678 min Scan# 261
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 41 Resp: 38039

Ion	Ratio	Lower	Upper
41	100		
39	67.1	52.6	78.8
76	32.0	25.7	38.5



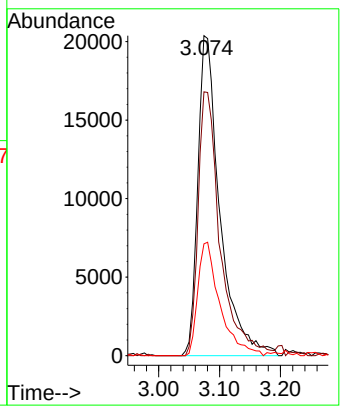


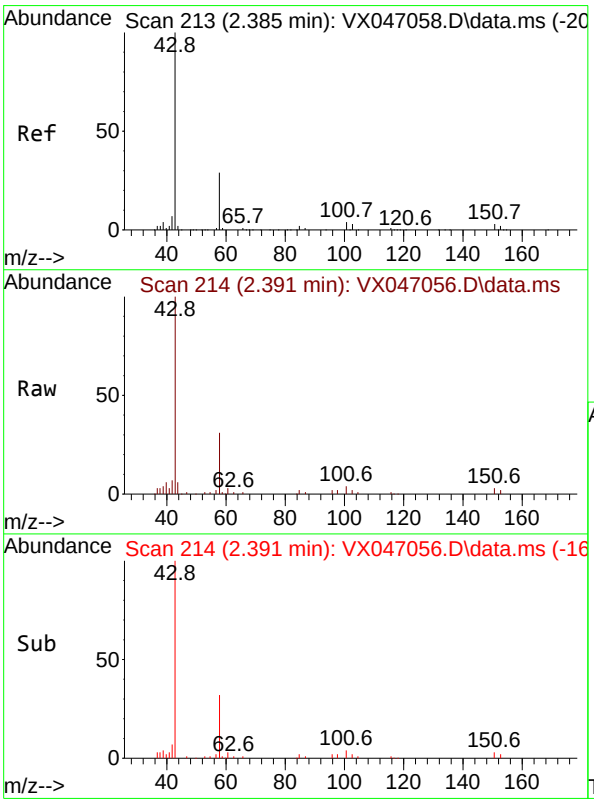
#15
Acrylonitrile
Concen: 27.051 ug/l
RT: 3.074 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 51340

Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.7	98.5
51	35.3	28.8	43.2

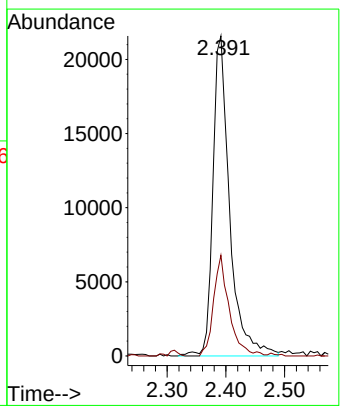


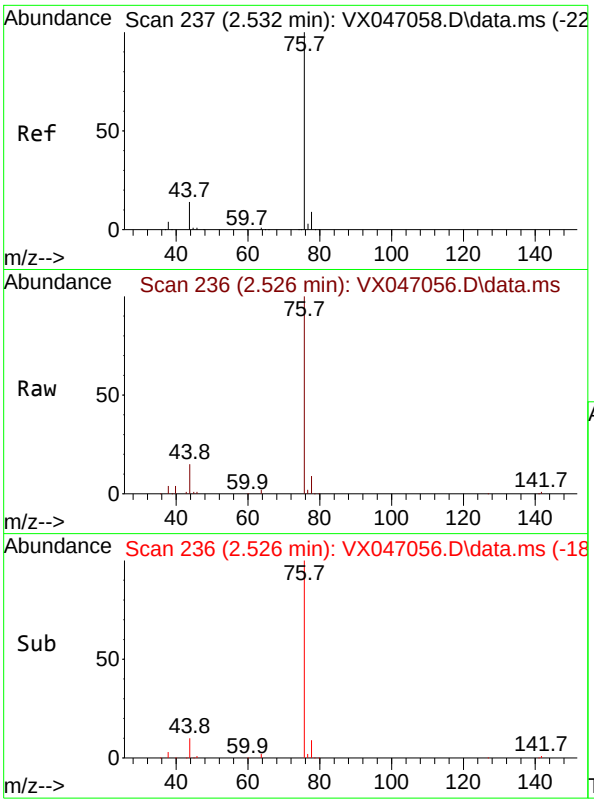


#16
Acetone
Concen: 26.796 ug/l
RT: 2.391 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 42718

Ion	Ratio	Lower	Upper
43	100		
58	30.3	24.0	36.0



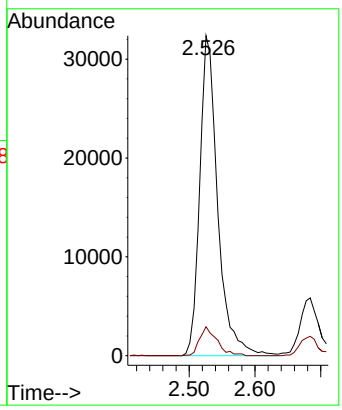


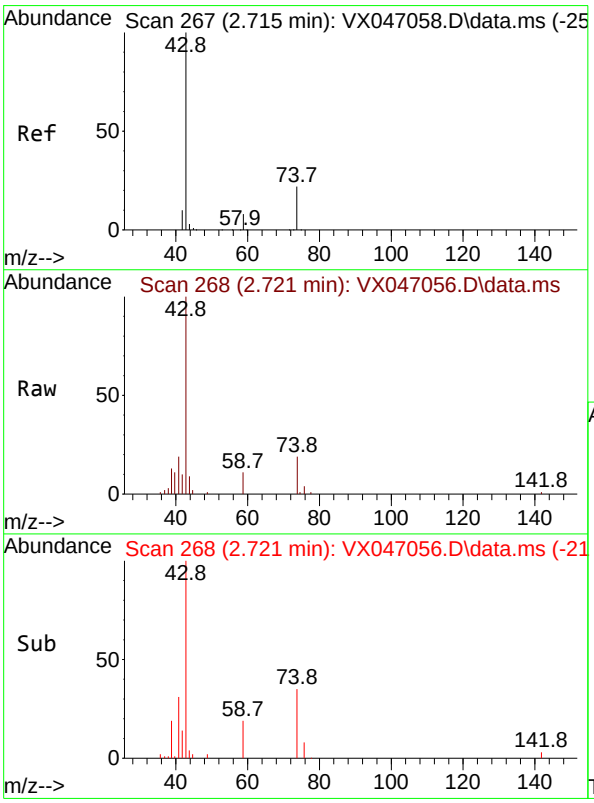
#17
Carbon Disulfide
Concen: 5.297 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 61522

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.4

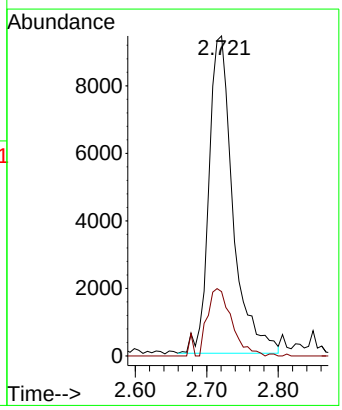


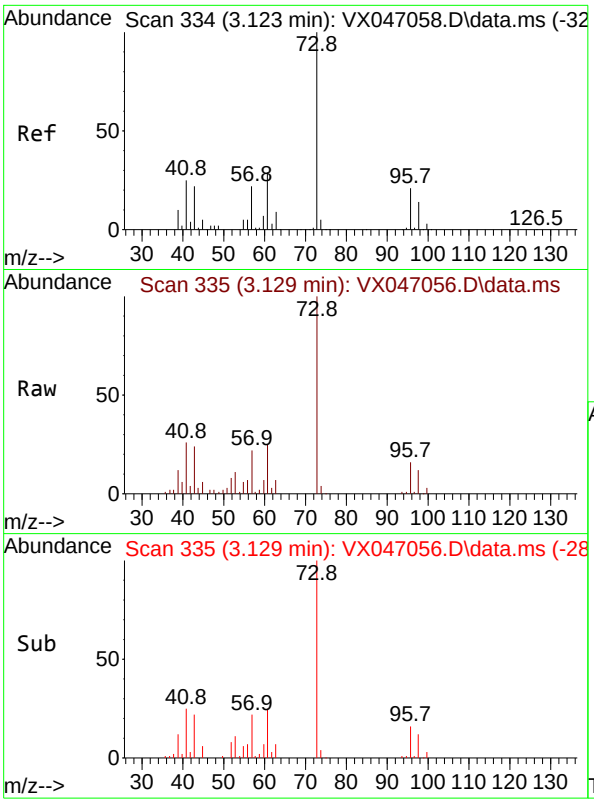


#18
Methyl Acetate
Concen: 5.171 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 21905

Ion	Ratio	Lower	Upper
43	100		
74	21.4	17.7	26.5



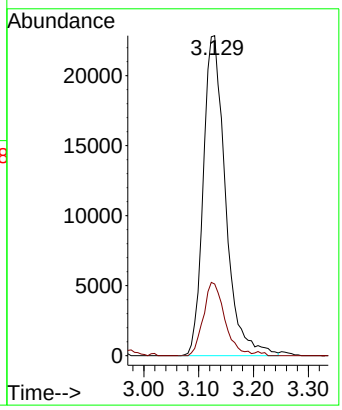


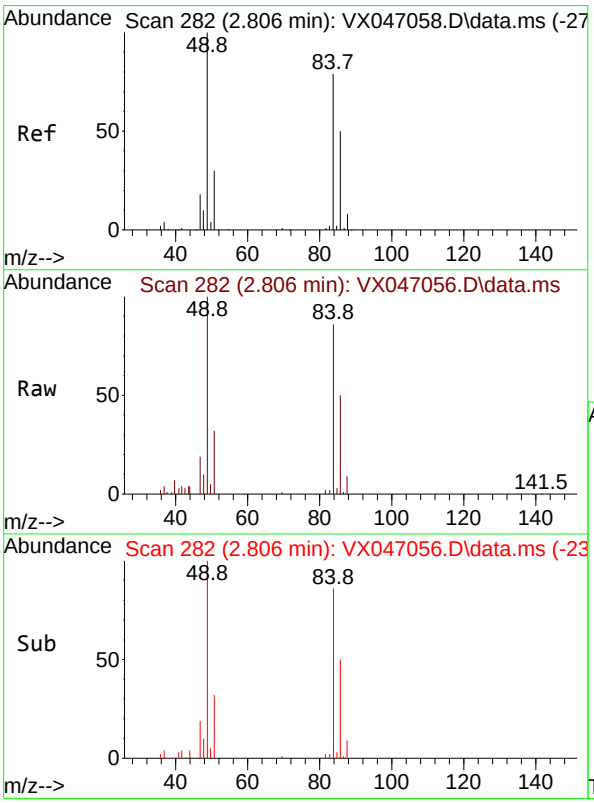
#19
Methyl tert-butyl Ether
Concen: 5.259 ug/l
RT: 3.129 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 64256

Ion	Ratio	Lower	Upper
73	100		
57	23.8	17.7	26.5

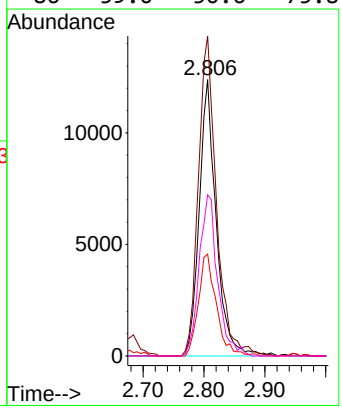


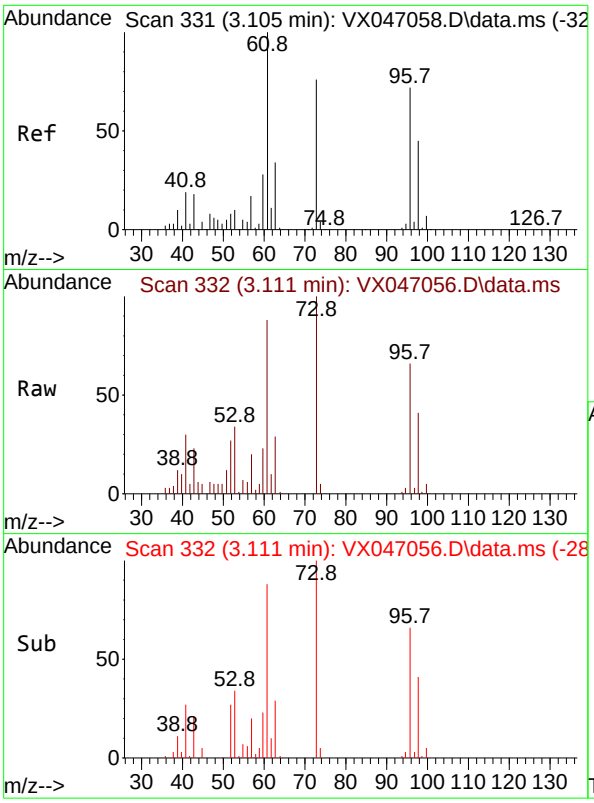


#20
Methylene Chloride
Concen: 5.470 ug/l
RT: 2.806 min Scan# 282
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 84 Resp: 23989

Ion	Ratio	Lower	Upper
84	100		
49	115.8	101.6	152.4
51	36.9	30.3	45.5
86	59.0	50.6	75.8



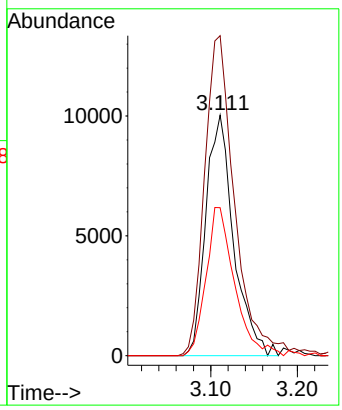


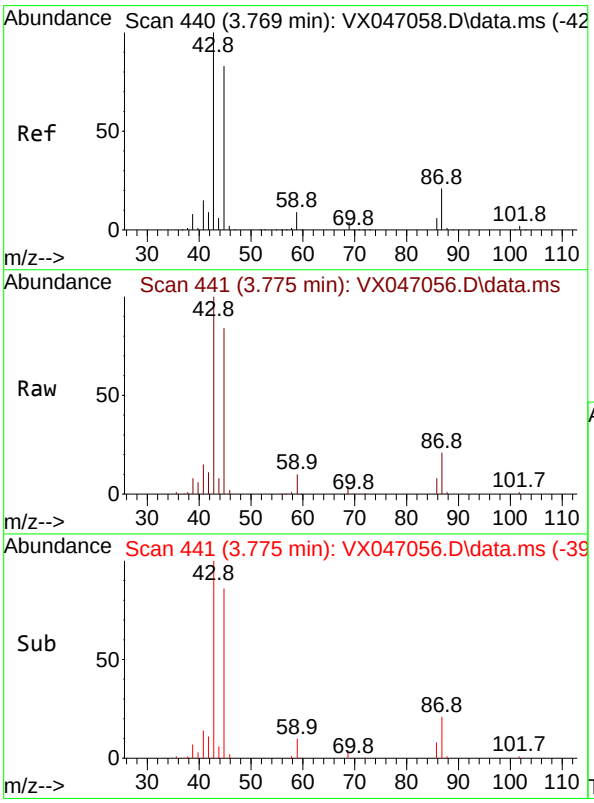
#21
trans-1,2-Dichloroethene
Concen: 5.451 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 22396

Ion	Ratio	Lower	Upper
96	100		
61	133.1	111.1	166.7
98	63.0	49.6	74.4

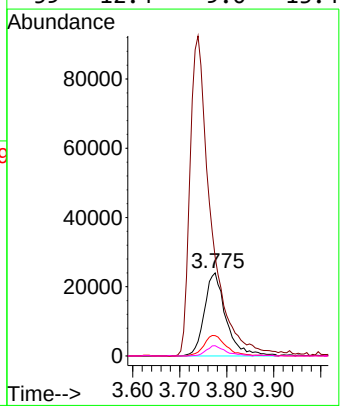


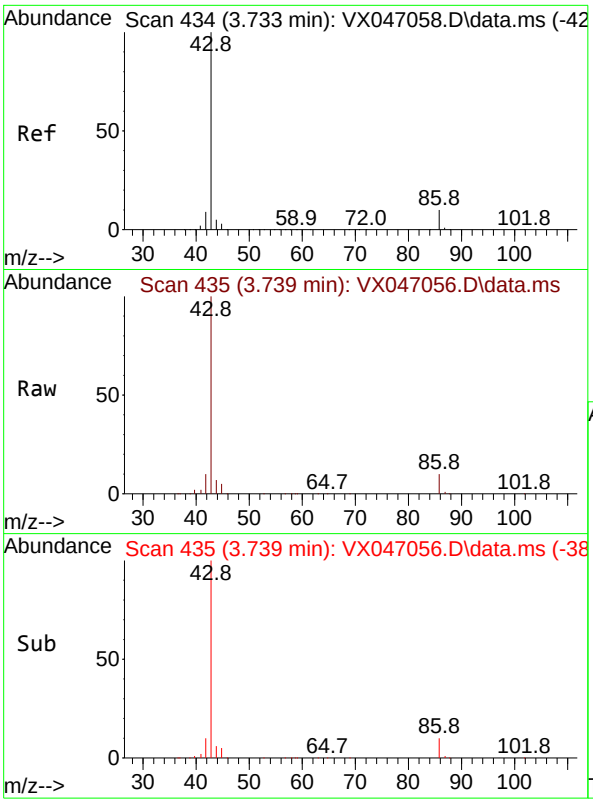


#22
Diisopropyl ether
Concen: 5.480 ug/l
RT: 3.775 min Scan# 441
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 45 Resp: 76458

Ion	Ratio	Lower	Upper
45	100		
43	117.4	96.8	145.2
87	24.5	20.5	30.7
59	12.4	9.0	13.4



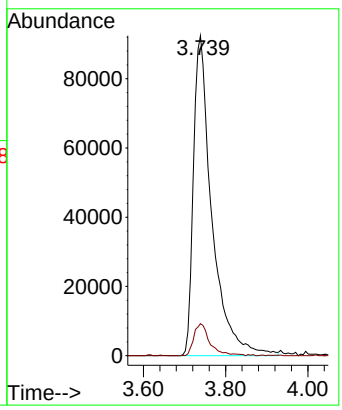


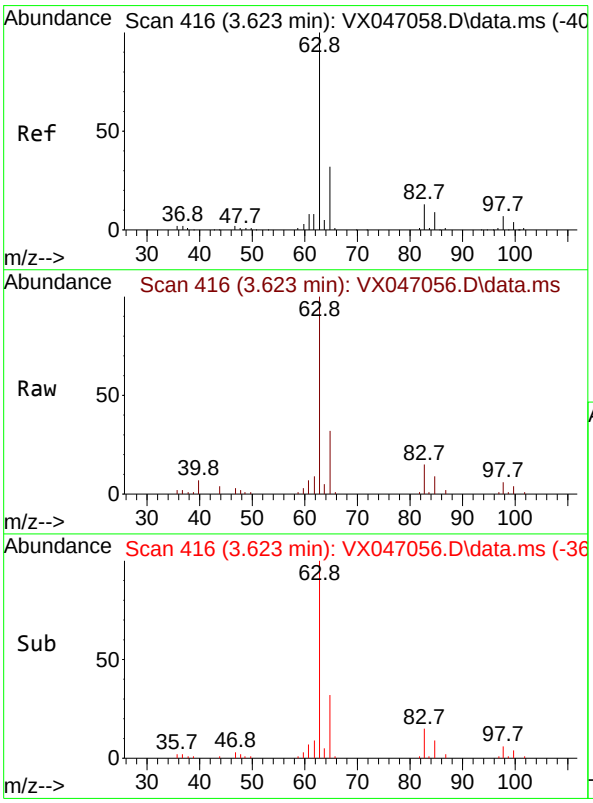
#23
Vinyl Acetate
Concen: 25.756 ug/l
RT: 3.739 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 288230

Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1

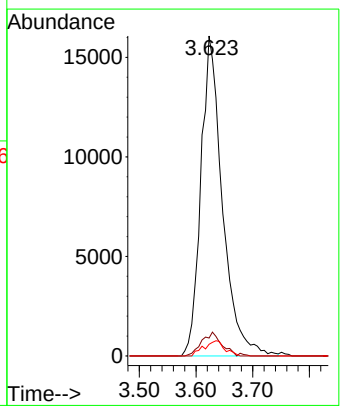


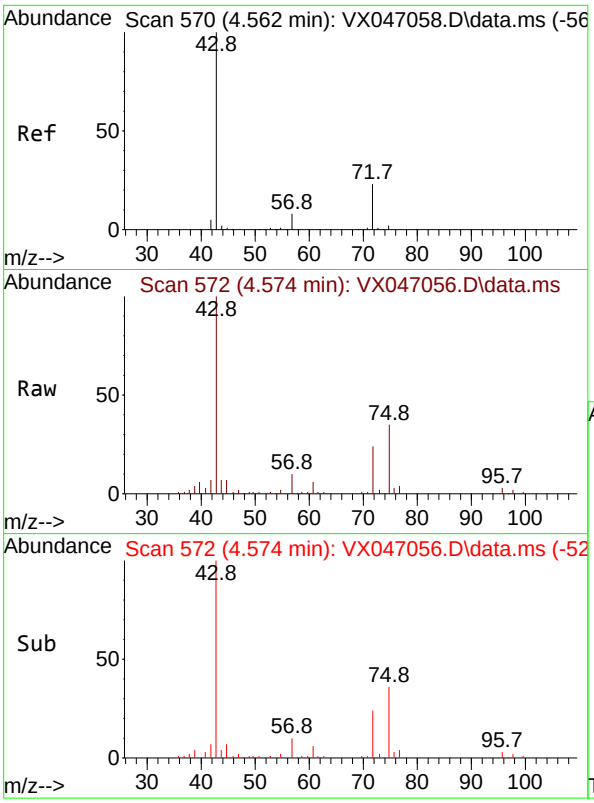


#24
1,1-Dichloroethane
Concen: 5.465 ug/l
RT: 3.623 min Scan# 416
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 63 Resp: 42402

Ion	Ratio	Lower	Upper
63	100		
98	5.6	3.6	10.8
100	3.7	2.3	6.8



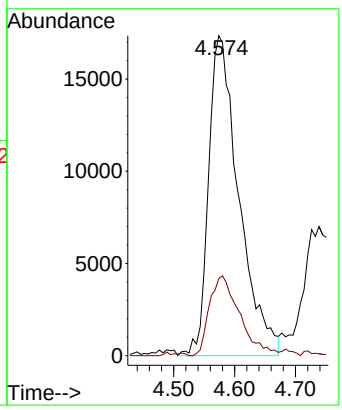


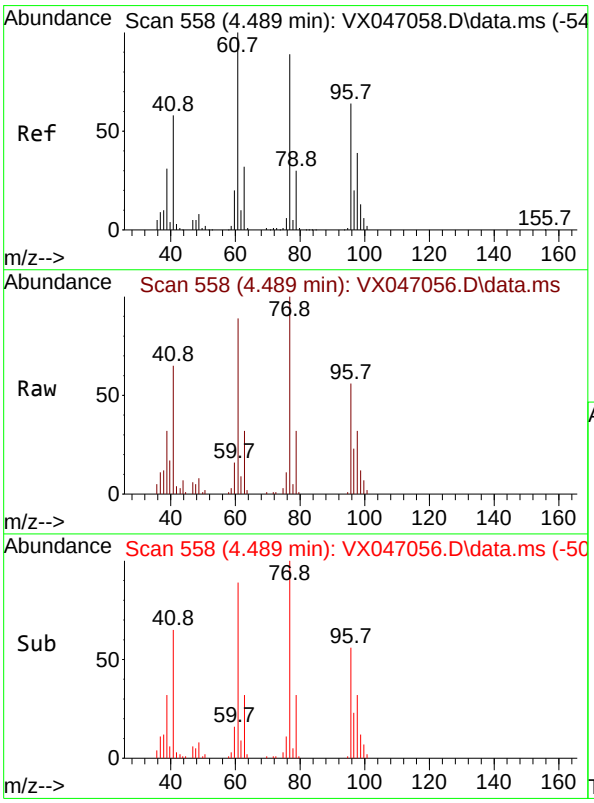
#25
2-Butanone
Concen: 25.858 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 60022

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.8	28.2

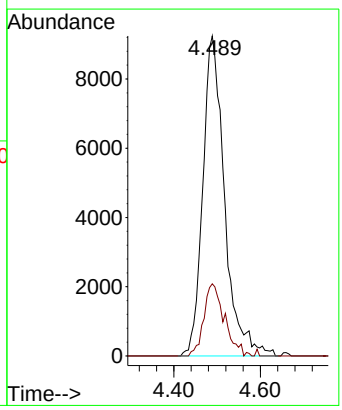


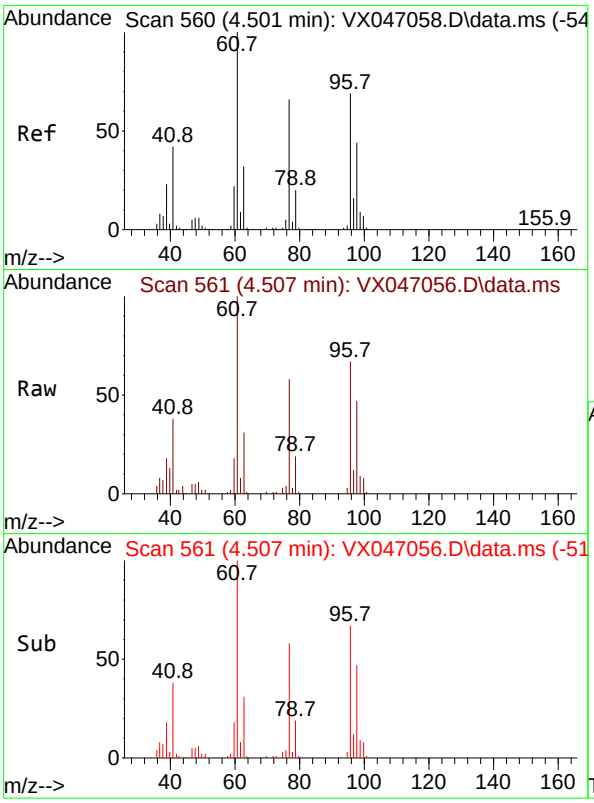


#26
2,2-Dichloropropane
Concen: 5.378 ug/l
RT: 4.489 min Scan# 558
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 77 Resp: 32298

Ion	Ratio	Lower	Upper
77	100		
97	21.4	11.4	34.1



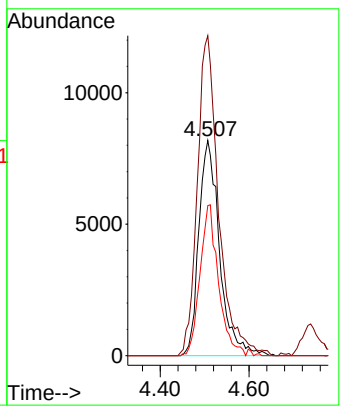


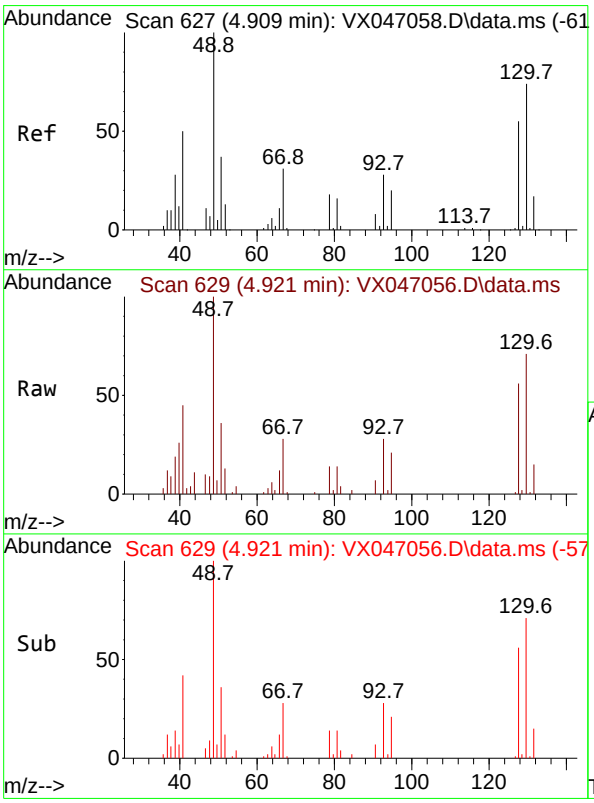
#27
cis-1,2-Dichloroethene
Concen: 5.463 ug/l
RT: 4.507 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 26579

Ion	Ratio	Lower	Upper
96	100		
61	152.0	0.0	298.6
98	62.5	0.0	128.8

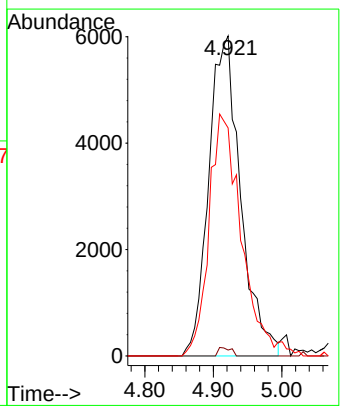


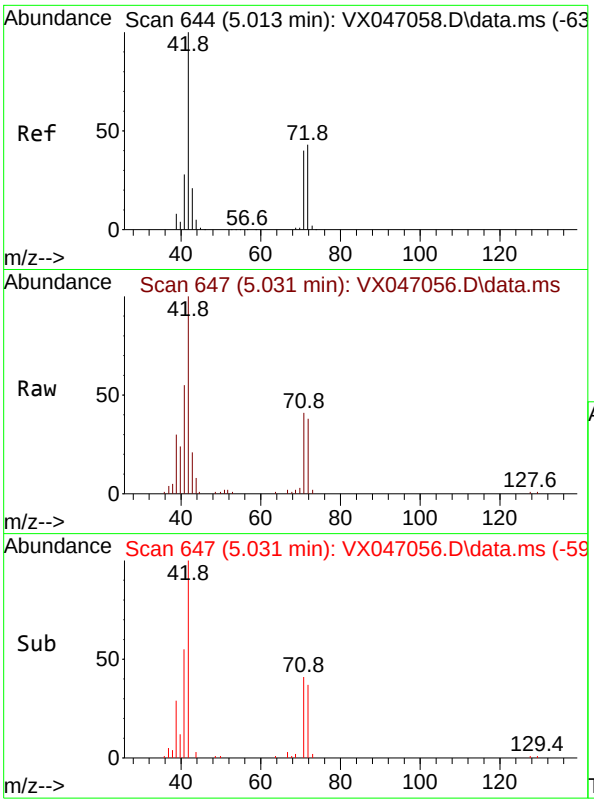


#28
Bromochloromethane
Concen: 5.445 ug/l
RT: 4.921 min Scan# 629
Delta R.T. 0.012 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 49 Resp: 19435

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.8
130	77.0	59.0	88.4



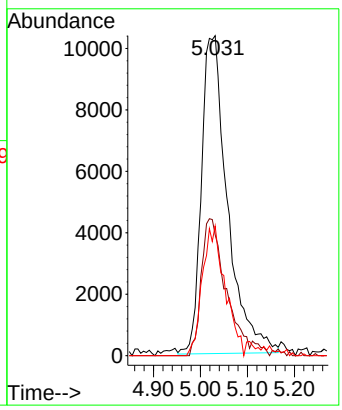


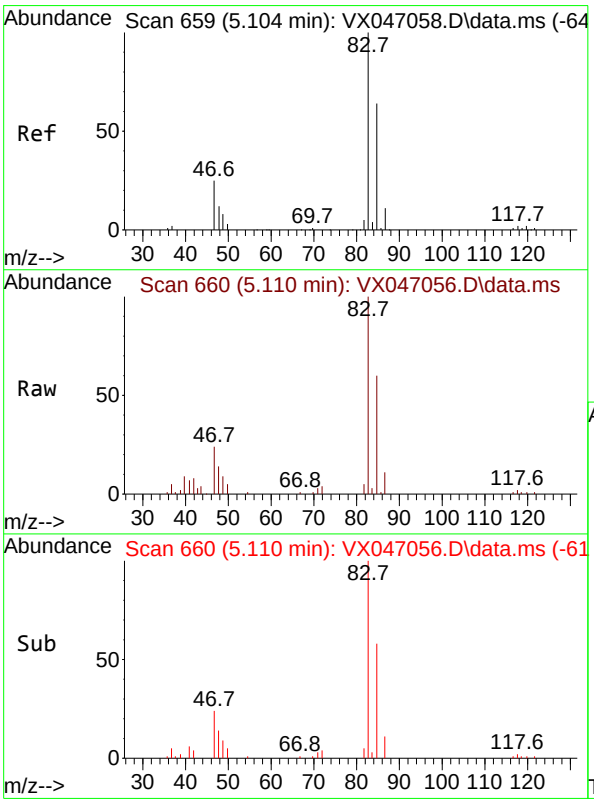
#29
Tetrahydrofuran
Concen: 26.631 ug/l
RT: 5.031 min Scan# 64
Delta R.T. 0.018 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 39885

Ion	Ratio	Lower	Upper
42	100		
72	39.9	33.7	50.5
71	35.4	31.0	46.4

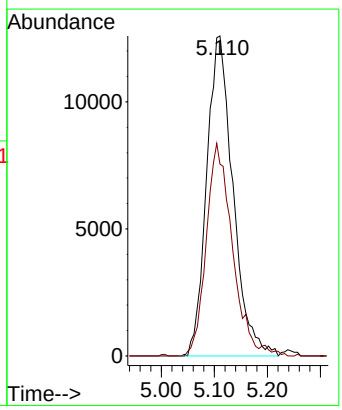


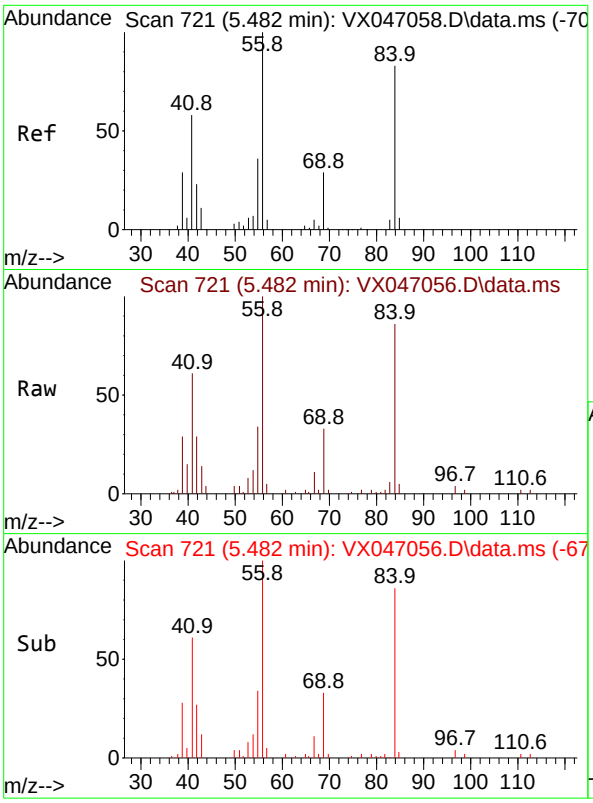


#30
Chloroform
Concen: 5.487 ug/l
RT: 5.110 min Scan# 660
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 83 Resp: 43336

Ion	Ratio	Lower	Upper
83	100		
85	58.1	50.9	76.3



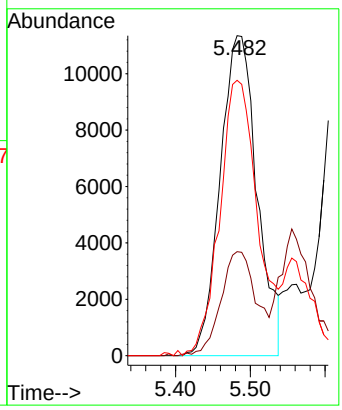


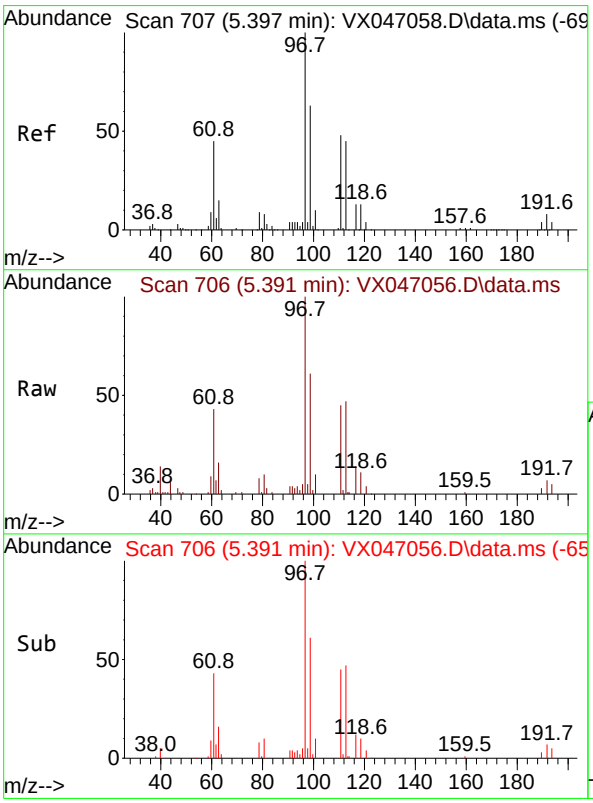
#31
Cyclohexane
Concen: 5.241 ug/l
RT: 5.482 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 38990

Ion	Ratio	Lower	Upper
56	100		
69	31.0	23.3	34.9
84	80.5	66.5	99.7

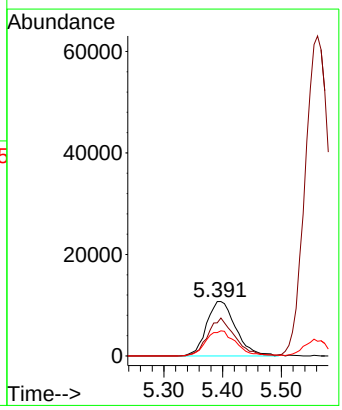


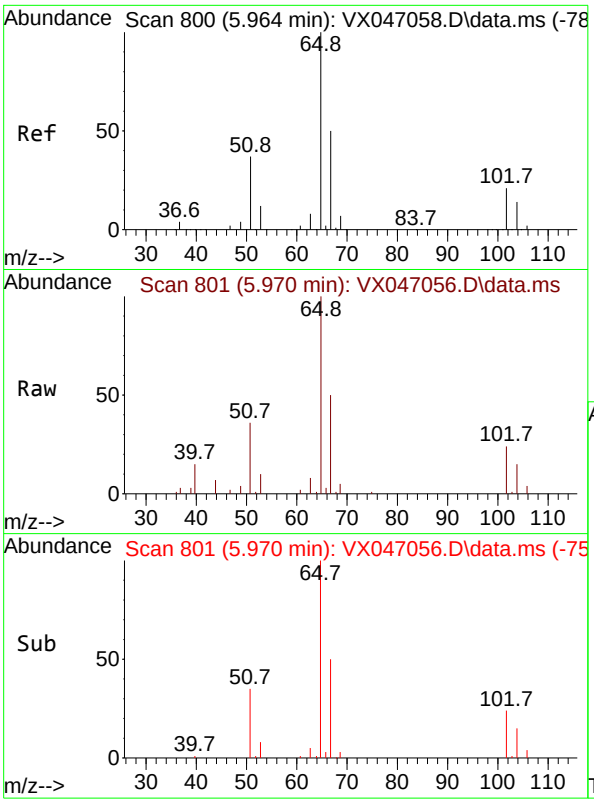


#32
1,1,1-Trichloroethane
Concen: 5.382 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 97 Resp: 36920

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.2	76.8
61	48.1	37.1	55.7



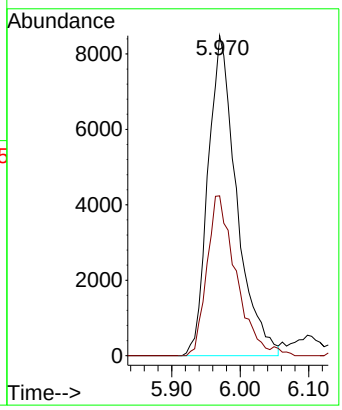


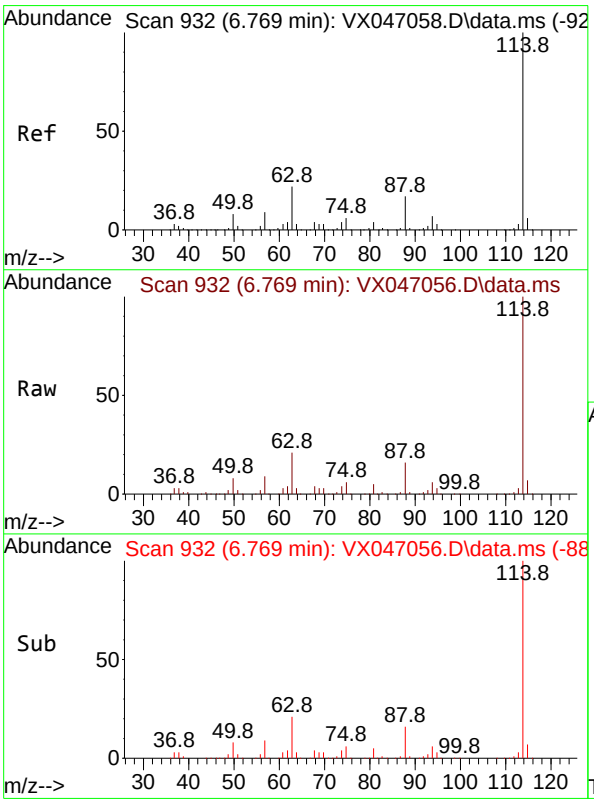
#33
1,2-Dichloroethane-d4
Concen: 6.169 ug/l
RT: 5.970 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 24550

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	104.8

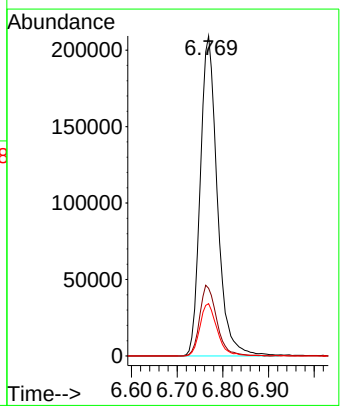


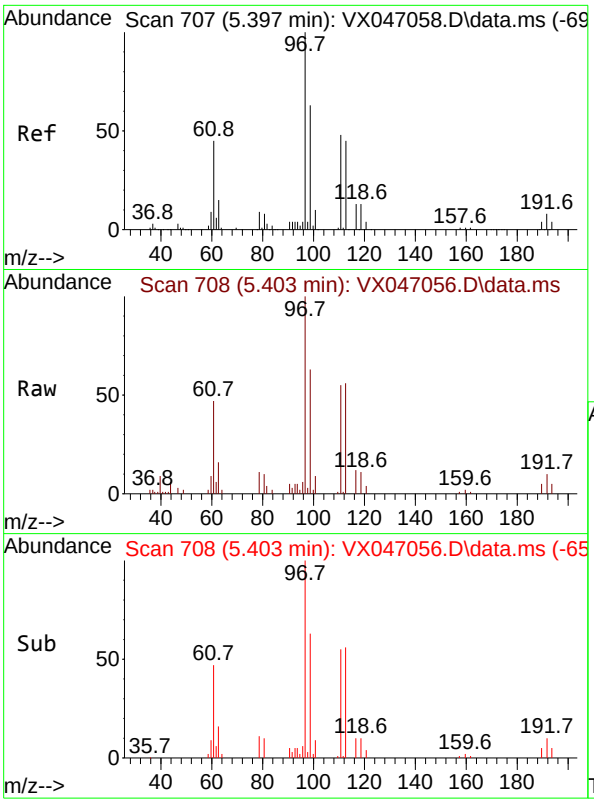


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:114 Resp: 542097

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	43.2
88	16.3	0.0	33.8



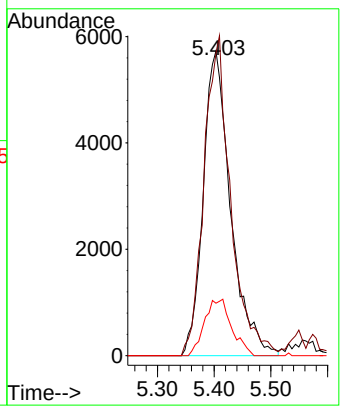


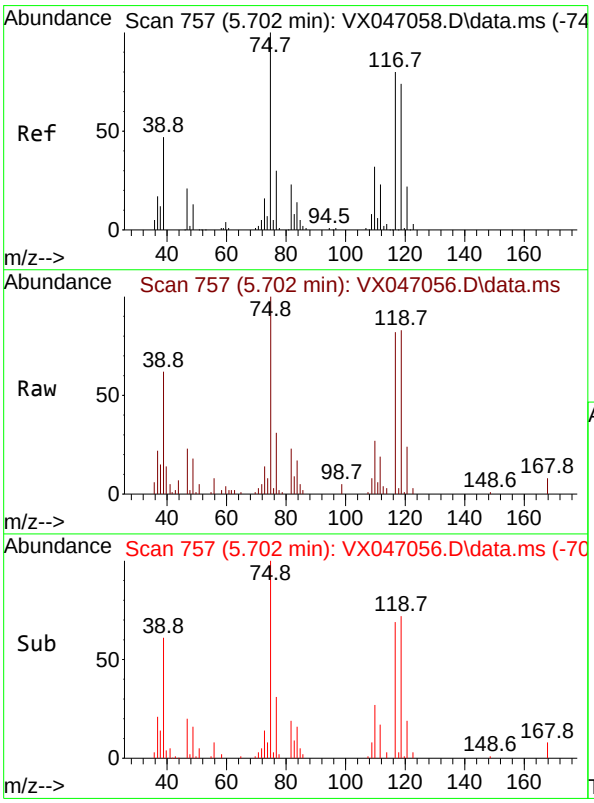
#35
Dibromofluoromethane
Concen: 5.749 ug/l
RT: 5.403 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 19243

Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.6	124.0
192	18.3	14.9	22.3

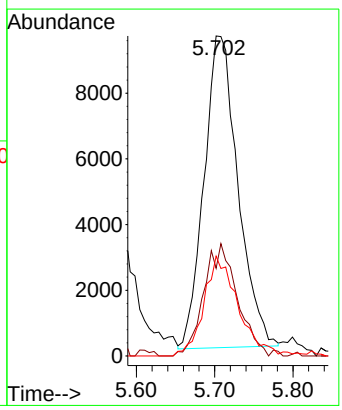


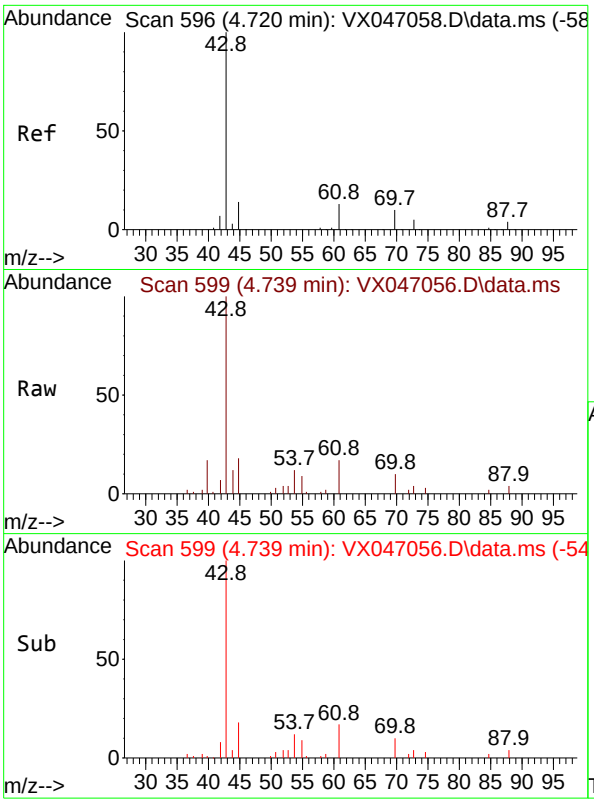


#36
1,1-Dichloropropene
Concen: 5.011 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 28590

Ion	Ratio	Lower	Upper
75	100		
110	35.4	17.2	51.5
77	32.5	25.1	37.7



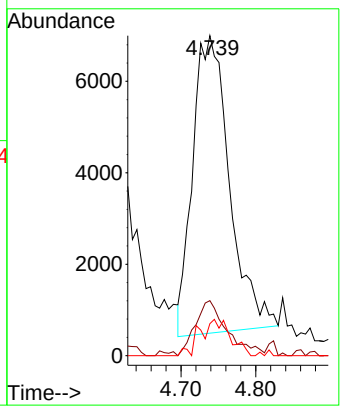


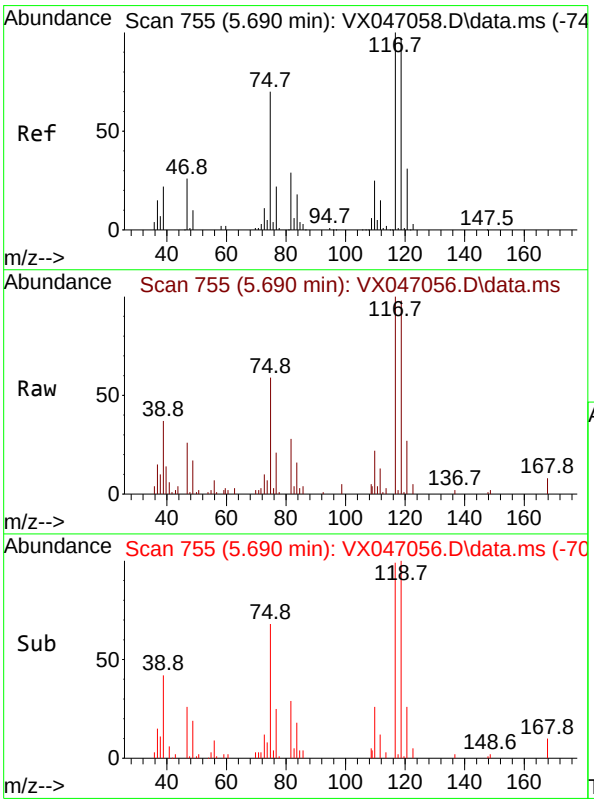
#37
Ethyl Acetate
Concen: 4.422 ug/l
RT: 4.739 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 22236

Ion	Ratio	Lower	Upper
43	100		
61	15.9	10.2	15.2#
70	7.1	8.1	12.1#

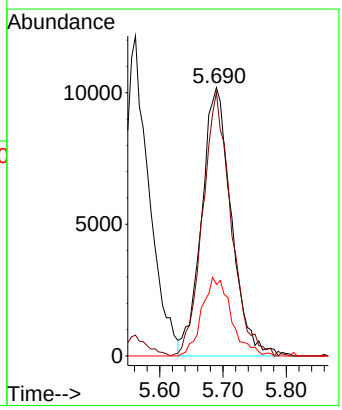


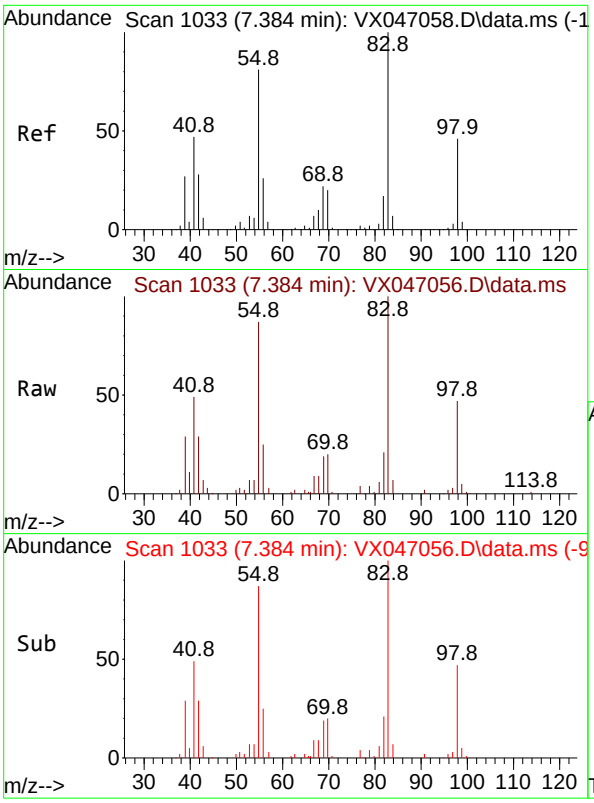


#38
Carbon Tetrachloride
Concen: 5.452 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:117 Resp: 33199

Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.6	115.0
121	26.7	24.4	36.6



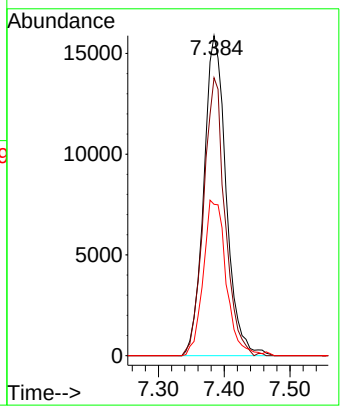


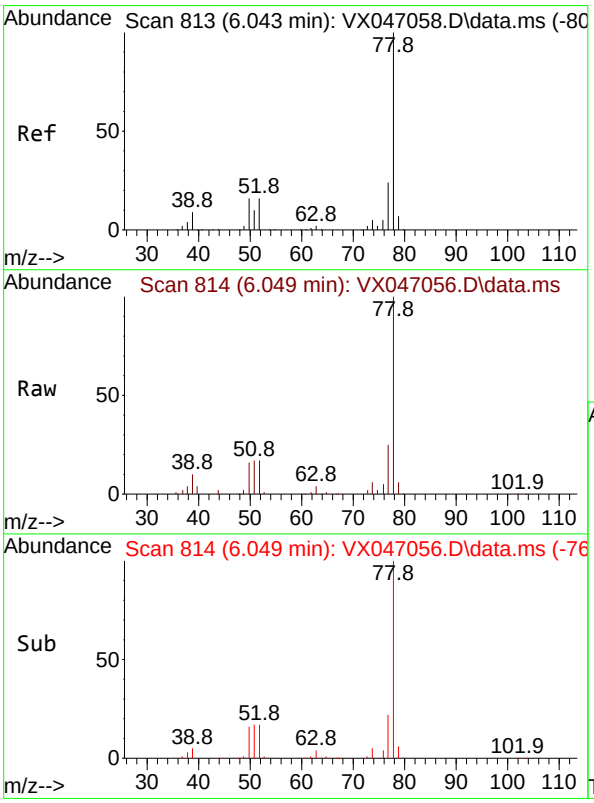
#39
Methylcyclohexane
Concen: 5.271 ug/l
RT: 7.384 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 37547

Ion	Ratio	Lower	Upper
83	100		
55	86.9	64.5	96.7
98	47.3	36.9	55.3

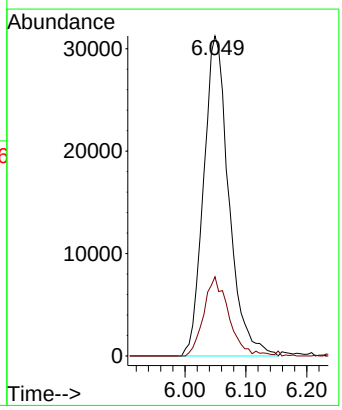


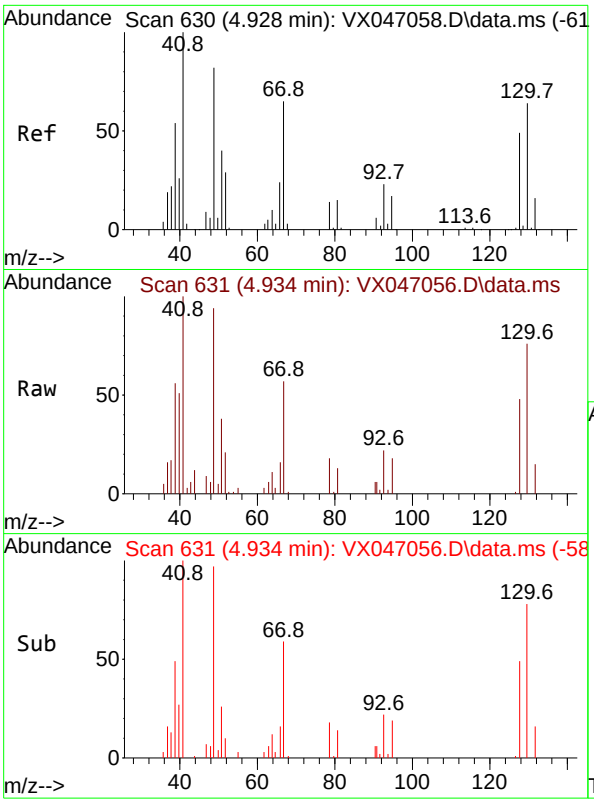


#40
Benzene
Concen: 5.438 ug/l
RT: 6.049 min Scan# 814
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 78 Resp: 89797

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.0	28.4



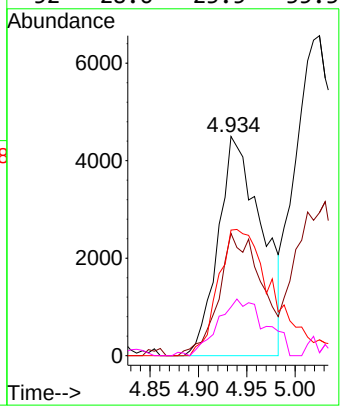


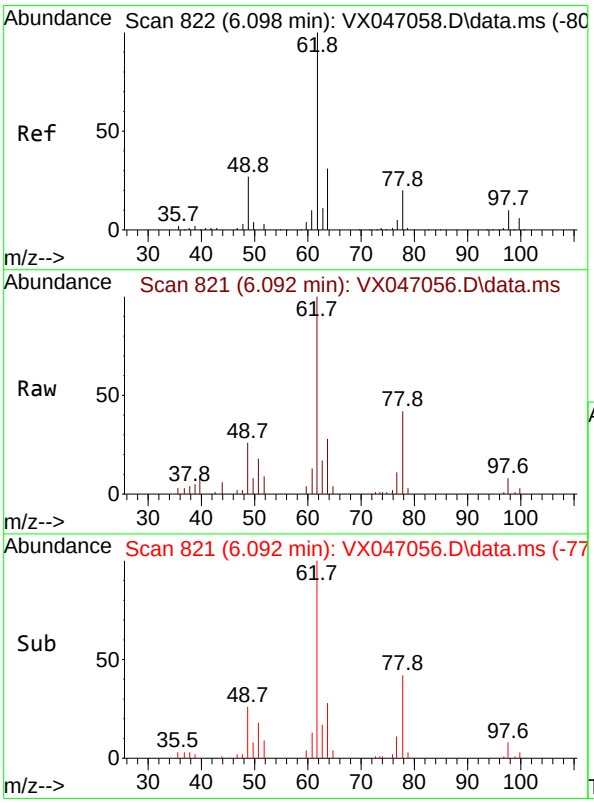
#41
Methacrylonitrile
Concen: 5.100 ug/l
RT: 4.934 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 14018

Ion	Ratio	Lower	Upper
41	100		
39	54.6	44.2	66.2
67	73.8	56.4	84.6
52	28.6	23.5	35.3

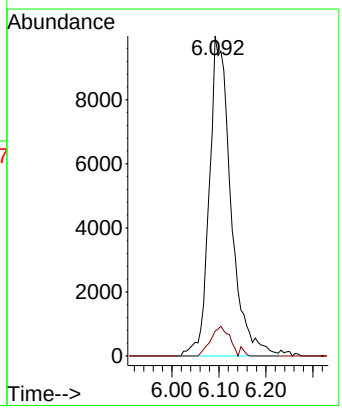


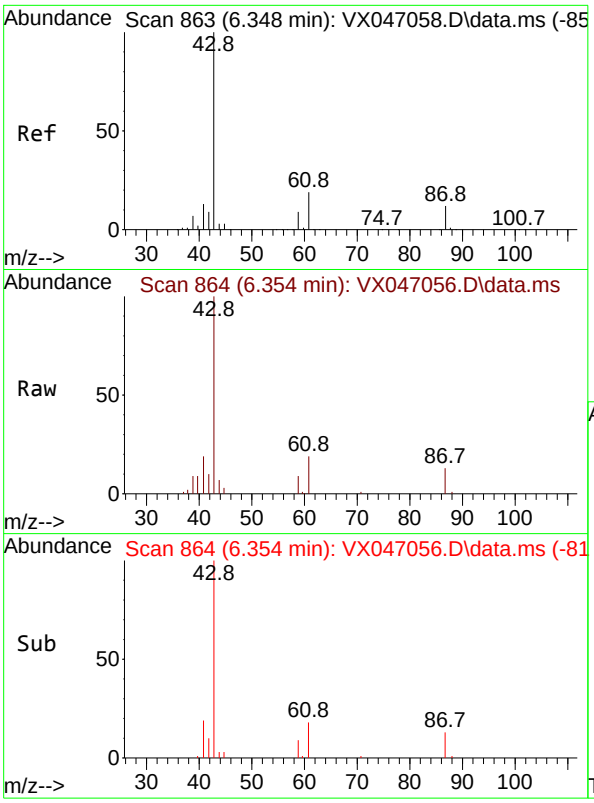


#42
1,2-Dichloroethane
Concen: 5.475 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 62 Resp: 31844

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	18.8



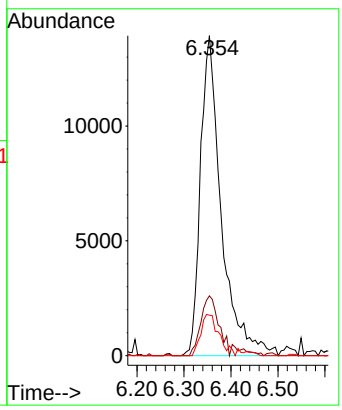


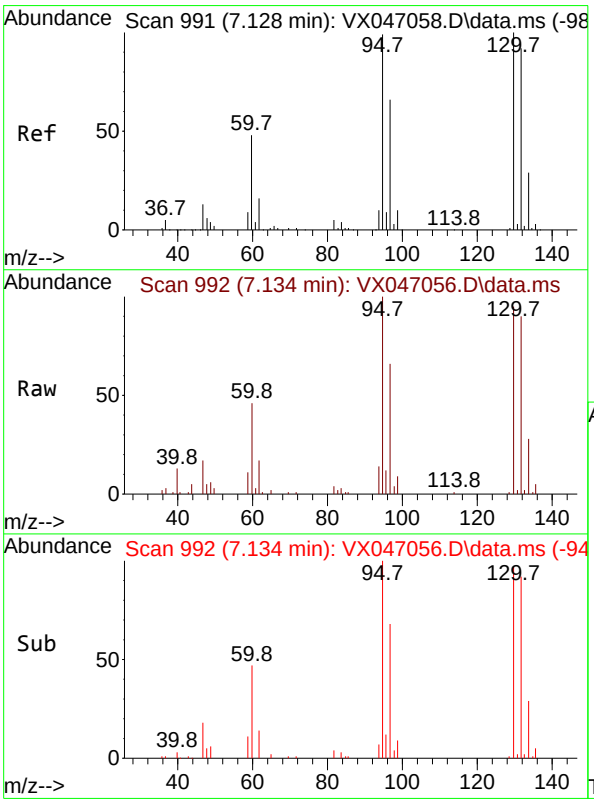
#43
Isopropyl Acetate
Concen: 5.240 ug/l
RT: 6.354 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 42946

Ion	Ratio	Lower	Upper
43	100		
61	15.9	15.1	22.7
87	11.1	9.7	14.5

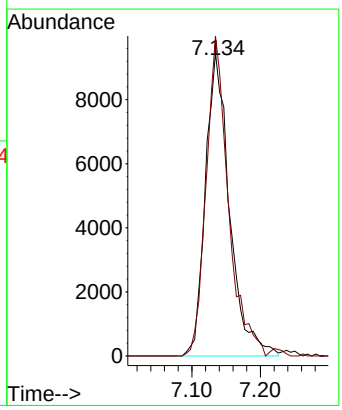


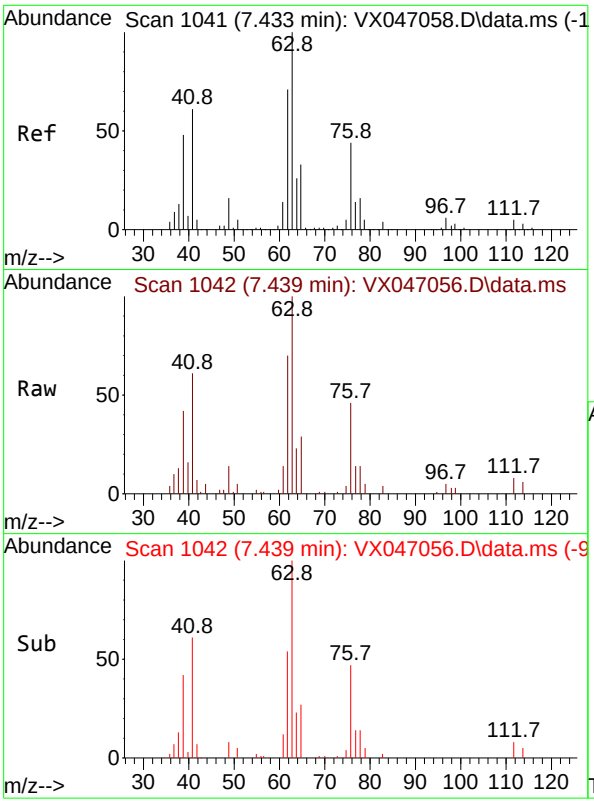


#44
Trichloroethene
Concen: 5.468 ug/l
RT: 7.134 min Scan# 992
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:130 Resp: 23153

Ion	Ratio	Lower	Upper
130	100		
95	117.9	0.0	198.6



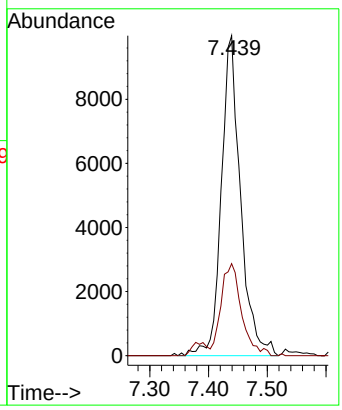


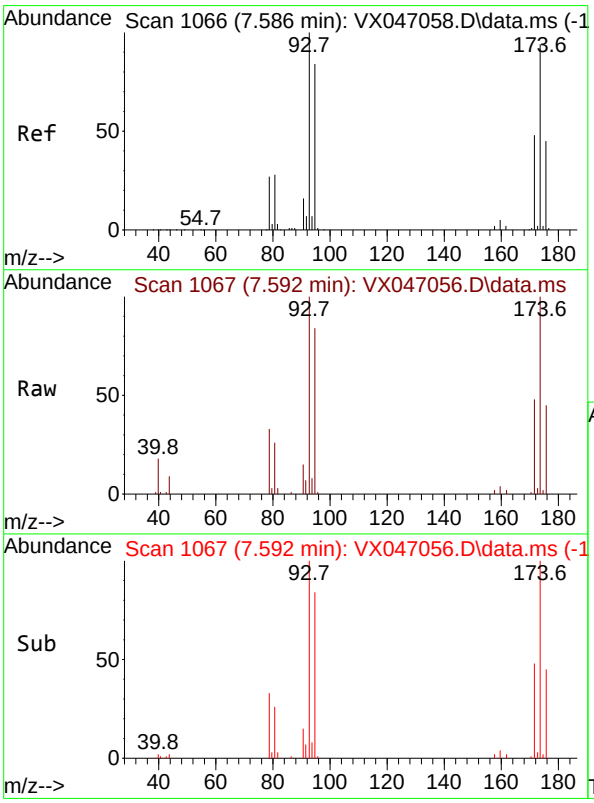
#45
1,2-Dichloropropane
Concen: 5.494 ug/l
RT: 7.439 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 22722

Ion	Ratio	Lower	Upper
63	100		
65	28.7	26.3	39.5

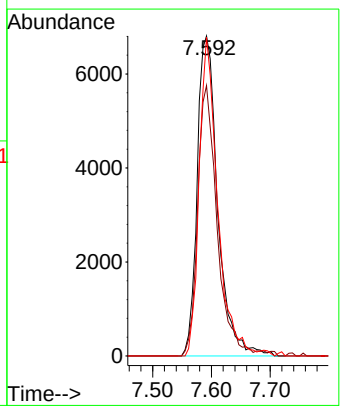


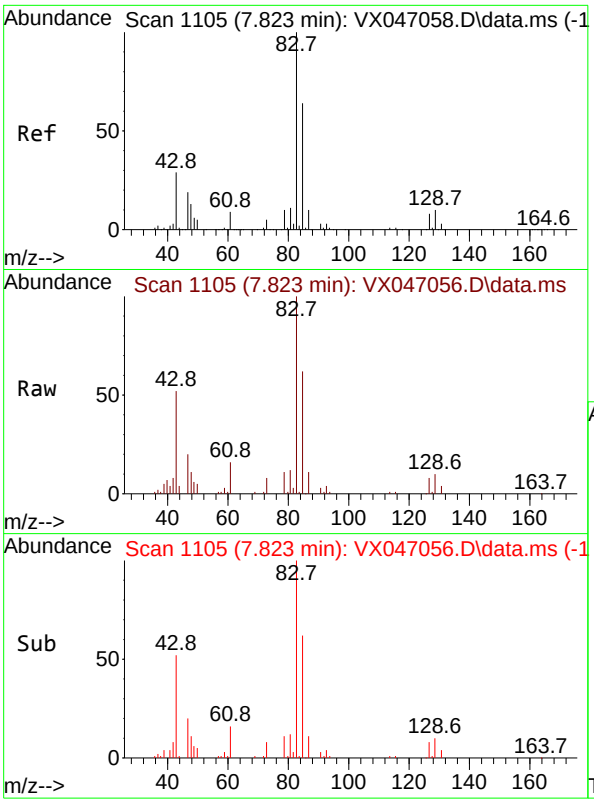


#46
Dibromomethane
Concen: 5.682 ug/l
RT: 7.592 min Scan# 1067
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 93 Resp: 16479

Ion	Ratio	Lower	Upper
93	100		
95	81.0	65.9	98.9
174	89.3	74.6	112.0



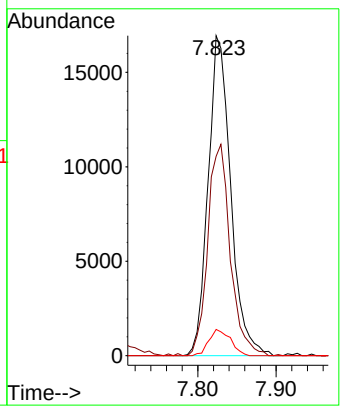


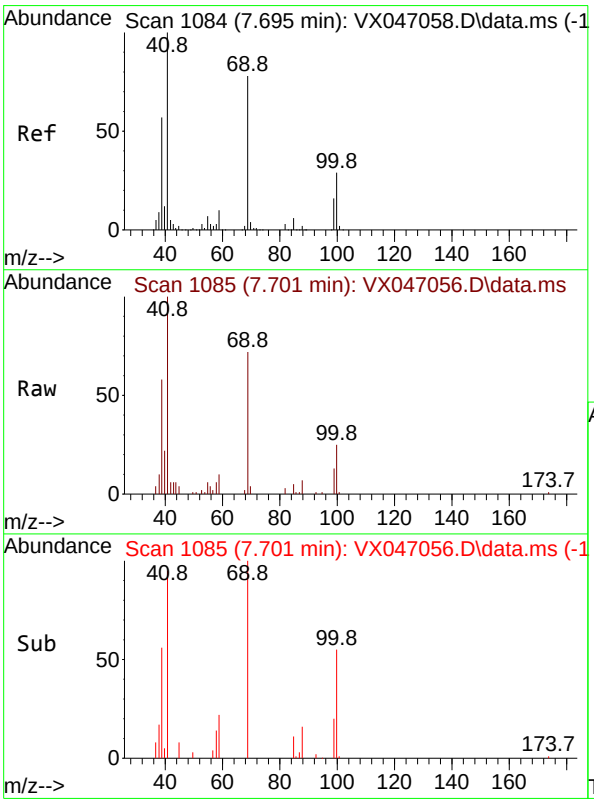
#47
Bromodichloromethane
Concen: 5.498 ug/l
RT: 7.823 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 33939

Ion	Ratio	Lower	Upper
83	100		
85	61.6	49.9	74.9
127	8.1	6.6	10.0

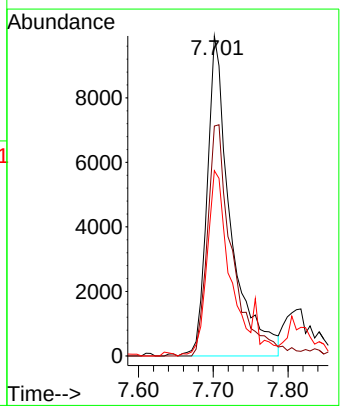


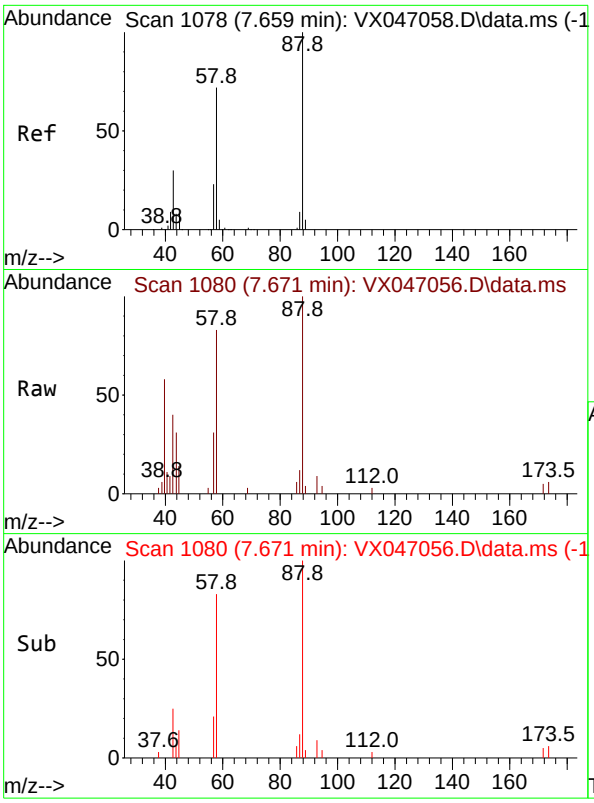


#48
Methyl methacrylate
Concen: 4.851 ug/l
RT: 7.701 min Scan# 1085
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 41 Resp: 21660

Ion	Ratio	Lower	Upper
41	100		
69	77.3	62.3	93.5
39	54.8	44.8	67.2



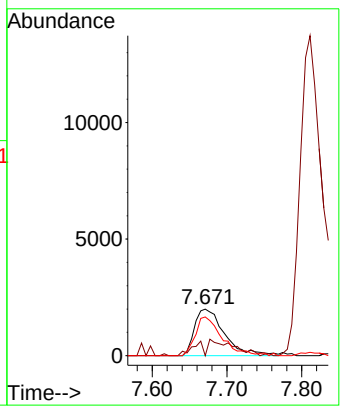


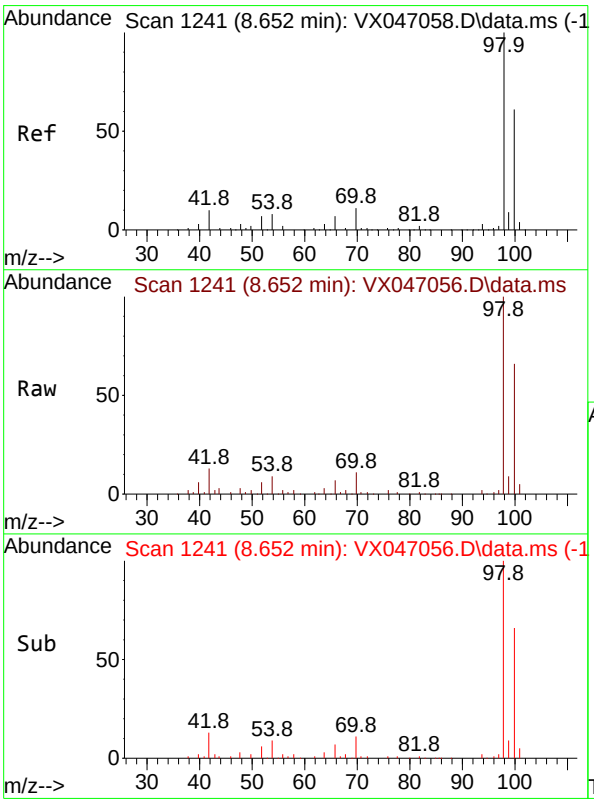
#49
1,4-Dioxane
Concen: 109.271 ug/l
RT: 7.671 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 5549

Ion	Ratio	Lower	Upper
88	100		
43	29.5	33.6	50.4#
58	74.7	58.8	88.2

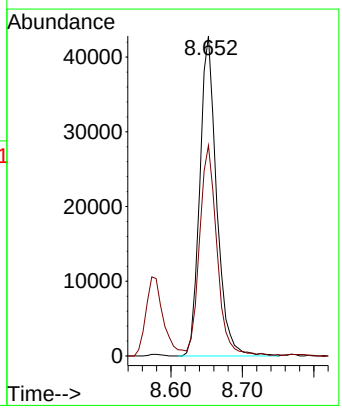


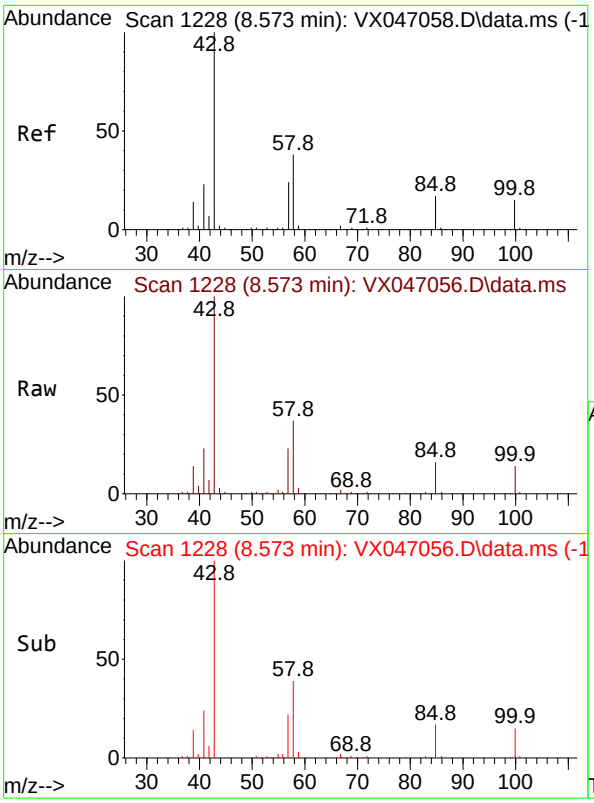


#50
Toluene-d8
Concen: 6.465 ug/l
RT: 8.652 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 98 Resp: 70081

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.3	79.9



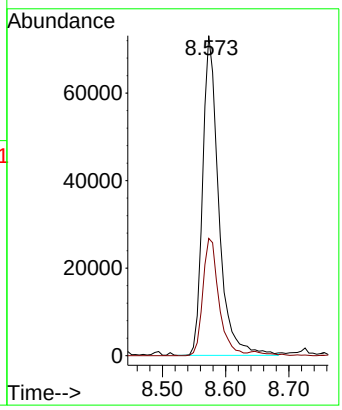


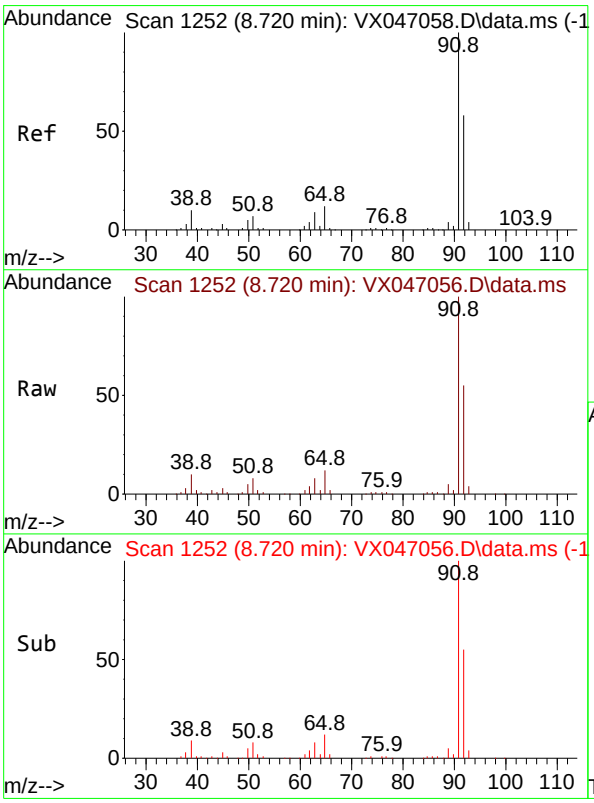
#51
4-Methyl-2-Pentanone
Concen: 26.565 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 129413

Ion	Ratio	Lower	Upper
43	100		
58	36.6	30.6	45.8

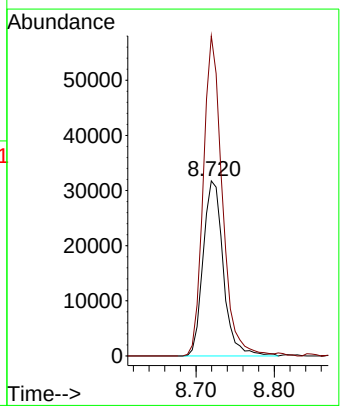


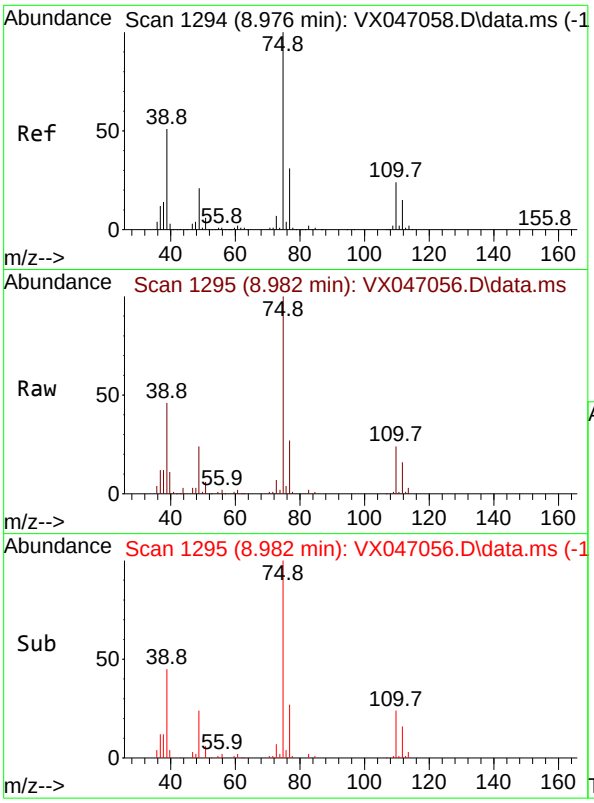


#52
Toluene
Concen: 5.592 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 92 Resp: 56775

Ion	Ratio	Lower	Upper
92	100		
91	171.9	137.9	206.9



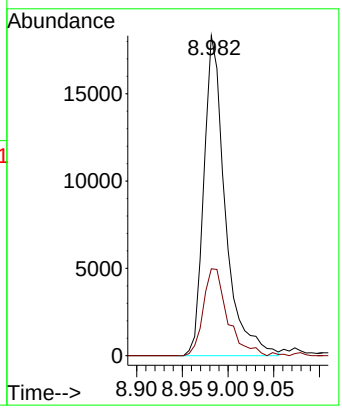


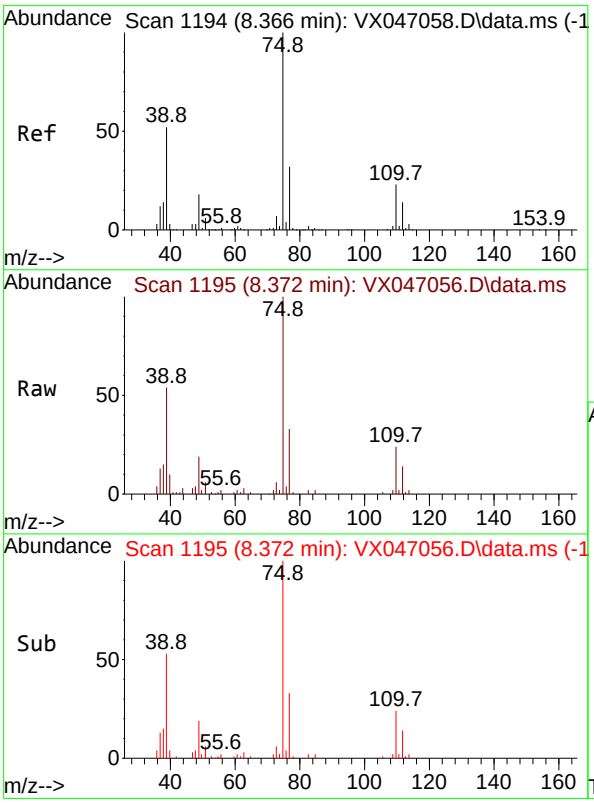
#53
t-1,3-Dichloropropene
Concen: 5.108 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 29776

Ion	Ratio	Lower	Upper
75	100		
77	27.1	24.5	36.7

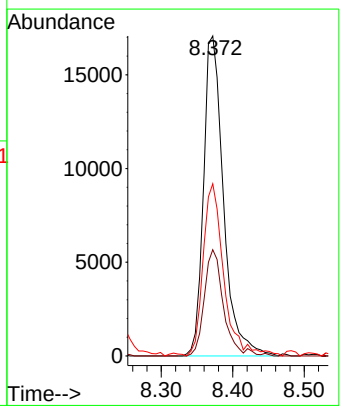


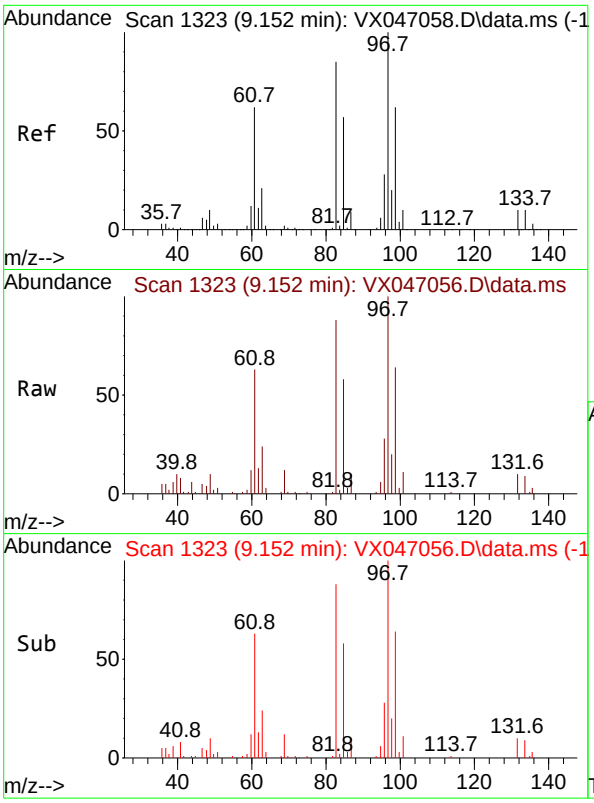


#54
cis-1,3-Dichloropropene
Concen: 5.193 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 33127

Ion	Ratio	Lower	Upper
75	100		
77	33.2	25.4	38.0
39	53.2	41.8	62.6



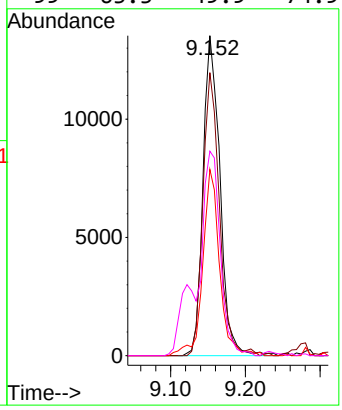


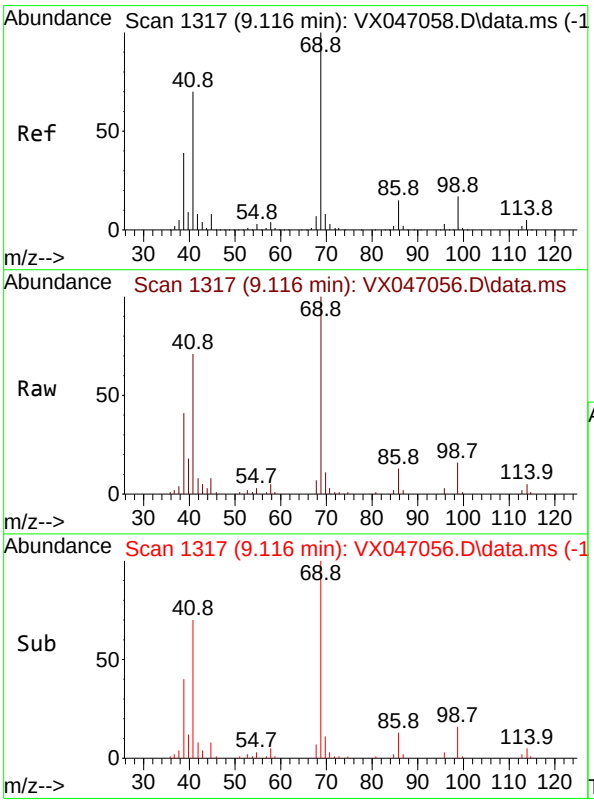
#55
1,1,2-Trichloroethane
Concen: 5.574 ug/l
RT: 9.152 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 21223

Ion	Ratio	Lower	Upper
97	100		
83	88.4	68.0	102.0
85	58.2	45.2	67.8
99	63.3	49.9	74.9

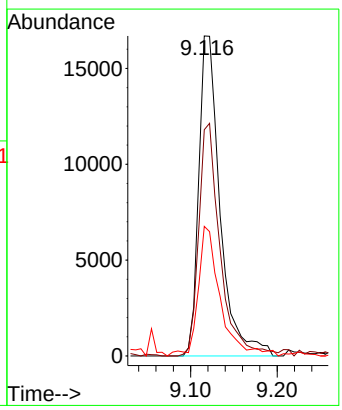


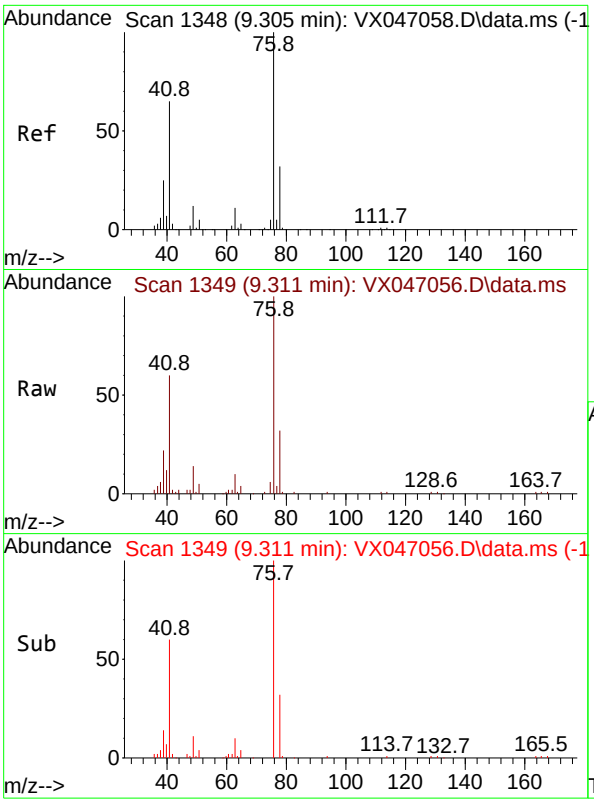


#56
Ethyl methacrylate
Concen: 5.072 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 69 Resp: 28587

Ion	Ratio	Lower	Upper
69	100		
41	72.7	56.1	84.1
39	42.1	31.1	46.7



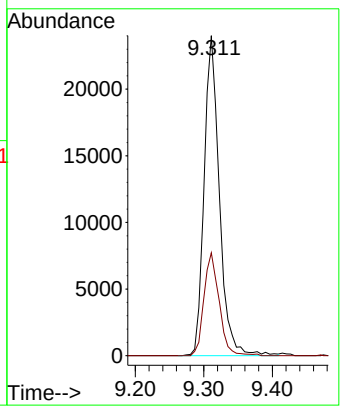


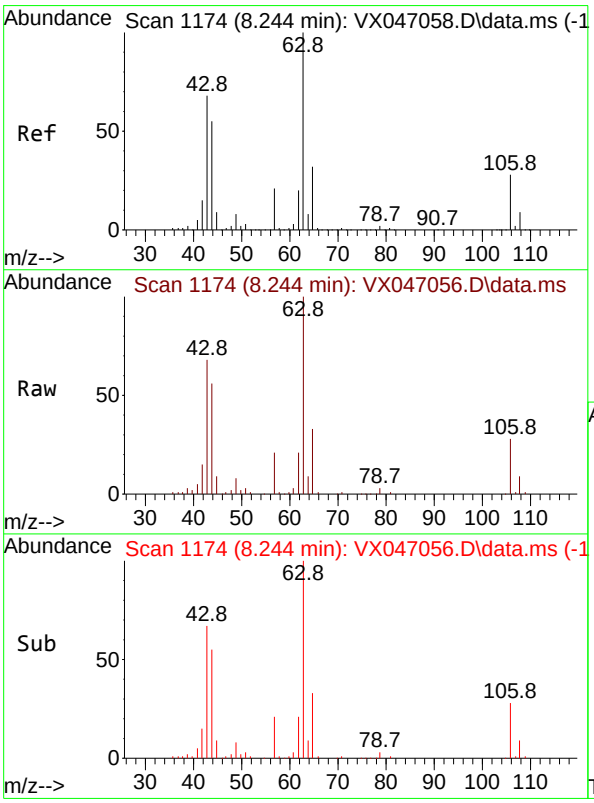
#57
1,3-Dichloropropane
Concen: 5.629 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 37251

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.5	38.3

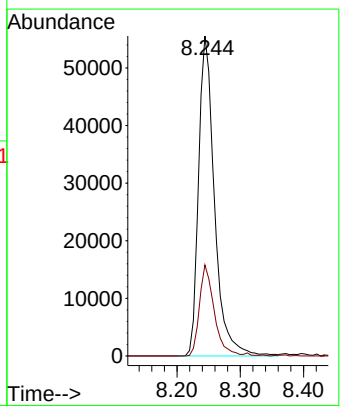


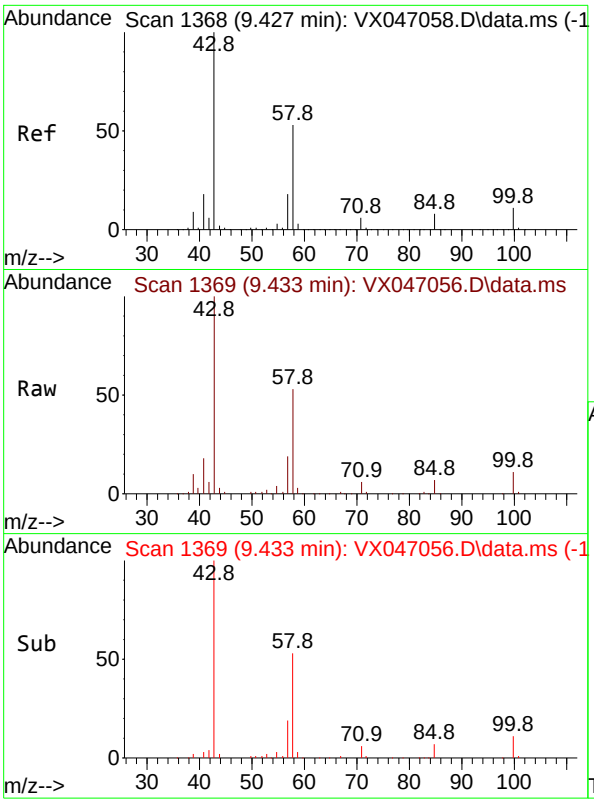


#58
2-Chloroethyl Vinyl ether
Concen: 31.066 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 63 Resp: 97443

Ion	Ratio	Lower	Upper
63	100		
106	26.7	22.2	33.4



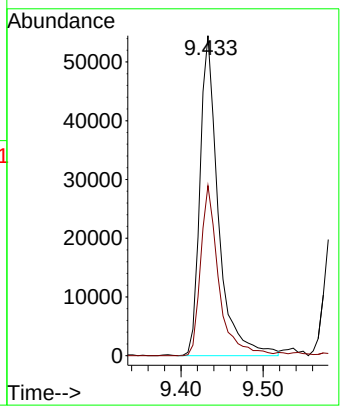


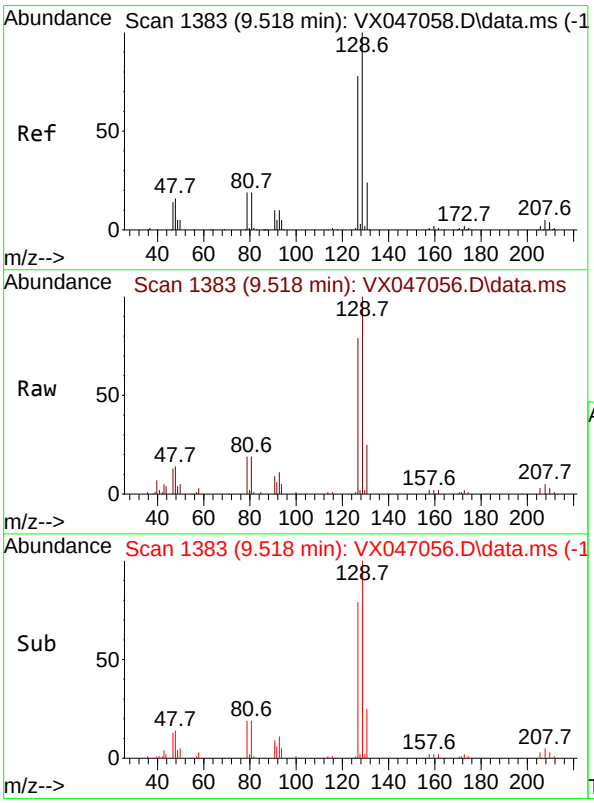
#59
2-Hexanone
Concen: 26.276 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 84572

Ion	Ratio	Lower	Upper
43	100		
58	52.3	26.5	79.5

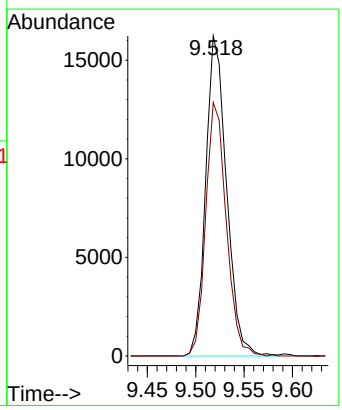


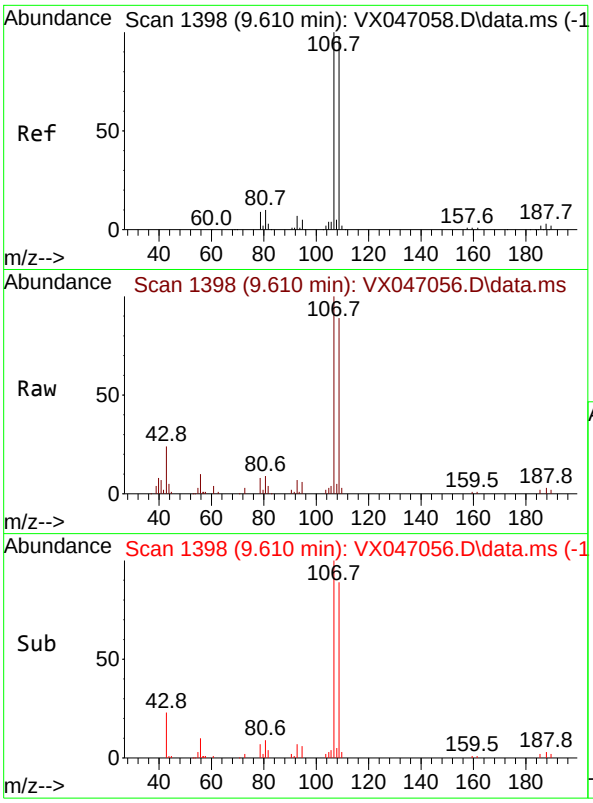


#60
Dibromochloromethane
Concen: 5.454 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:129 Resp: 24354

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.8



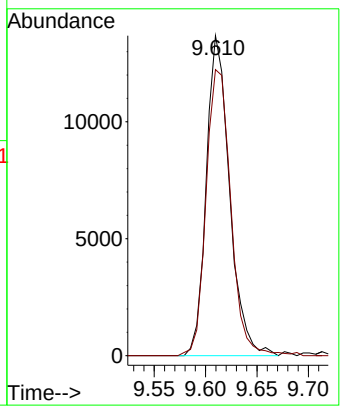


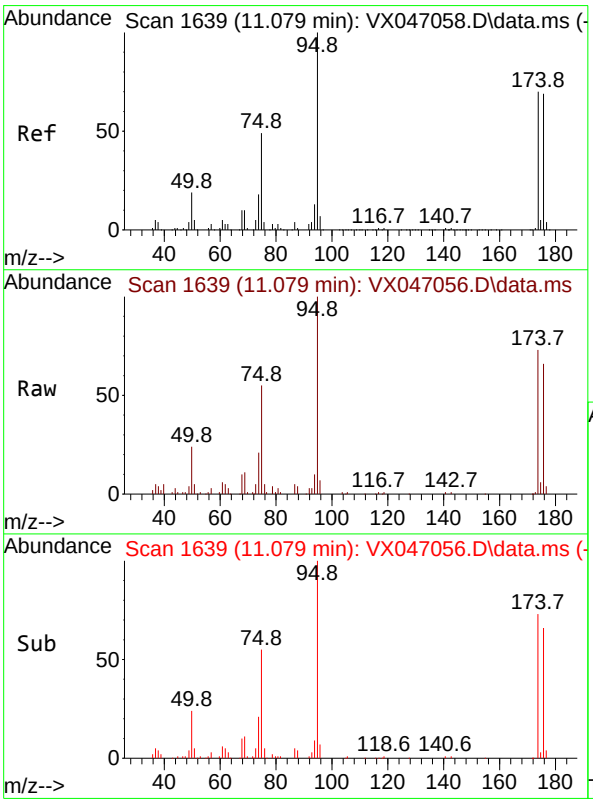
#61
1,2-Dibromoethane
Concen: 5.420 ug/l
RT: 9.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 21578

Ion	Ratio	Lower	Upper
107	100		
109	95.2	74.6	112.0

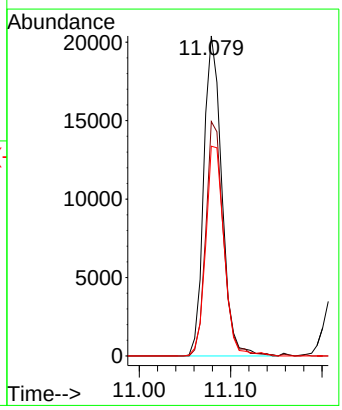


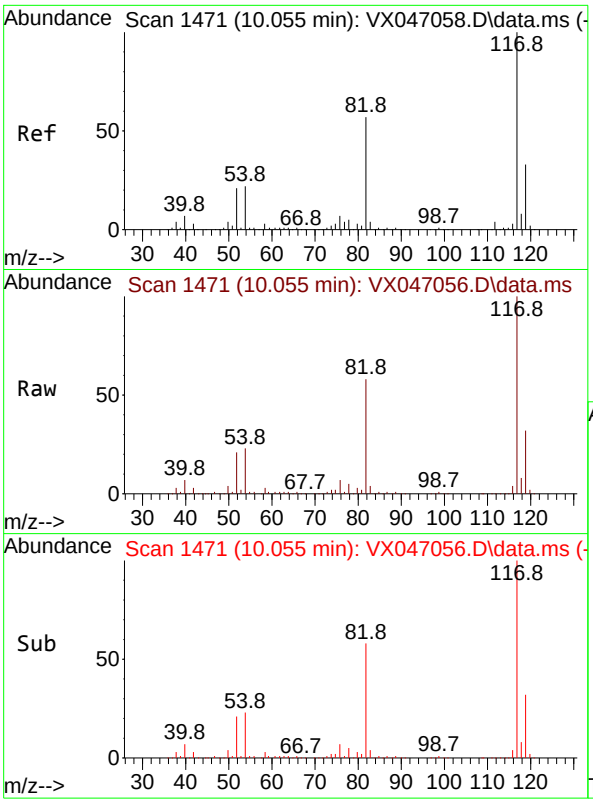


#62
4-Bromofluorobenzene
Concen: 5.968 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 95 Resp: 27880

Ion	Ratio	Lower	Upper
95	100		
174	71.5	0.0	144.6
176	67.1	0.0	139.6



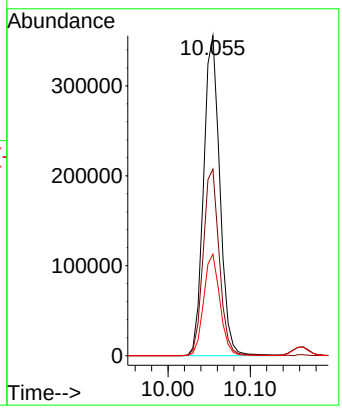


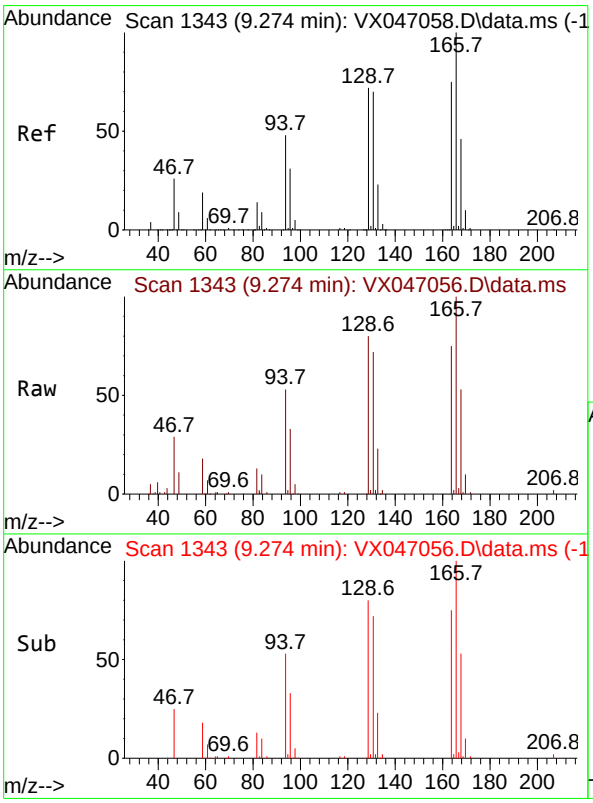
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 488683

Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.4	68.2
119	31.7	26.1	39.1

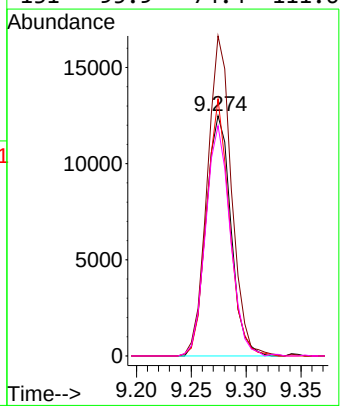


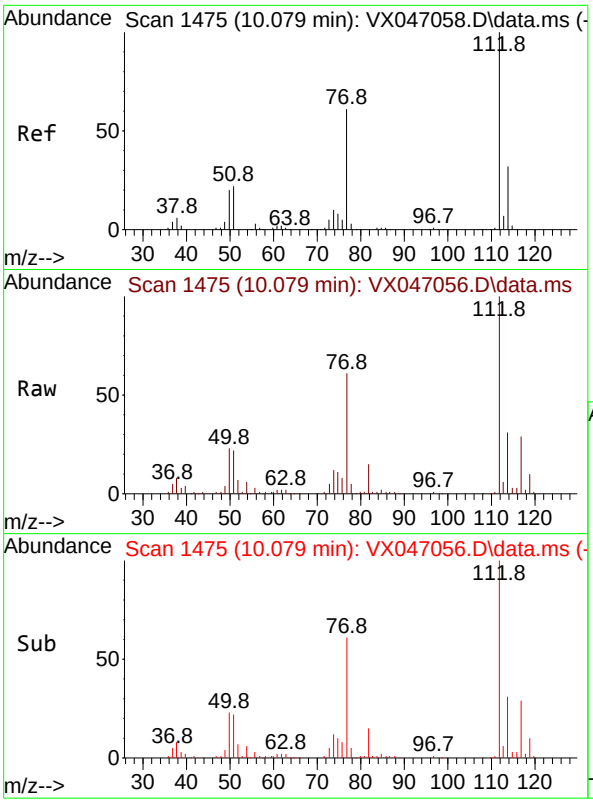


#64
Tetrachloroethene
Concen: 5.592 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:164 Resp: 19701

Ion	Ratio	Lower	Upper
164	100		
166	133.2	106.2	159.4
129	106.9	76.6	114.8
131	95.9	74.4	111.6



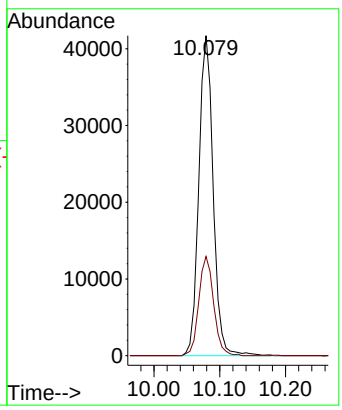


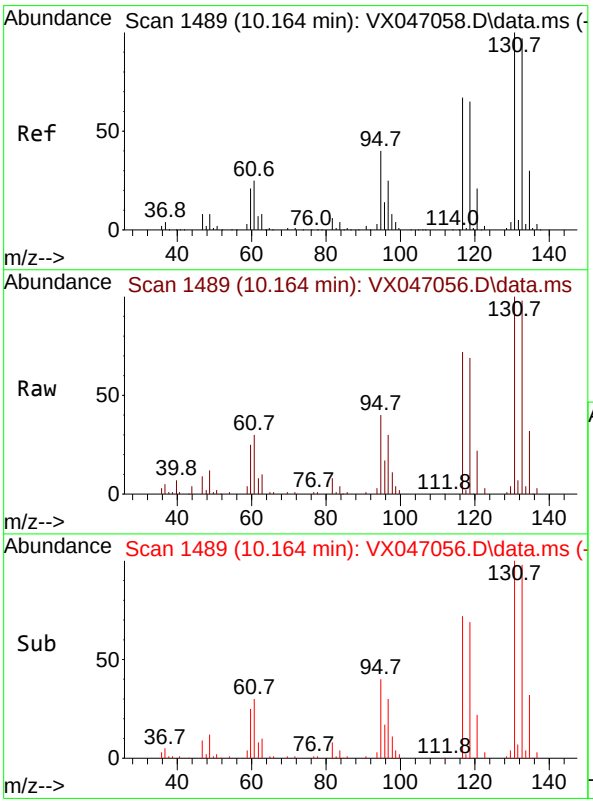
#65
Chlorobenzene
Concen: 5.526 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 63268

Ion	Ratio	Lower	Upper
112	100		
114	31.0	25.8	38.6

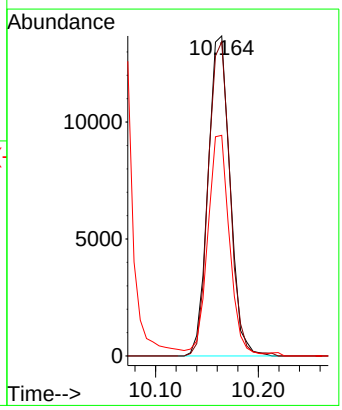


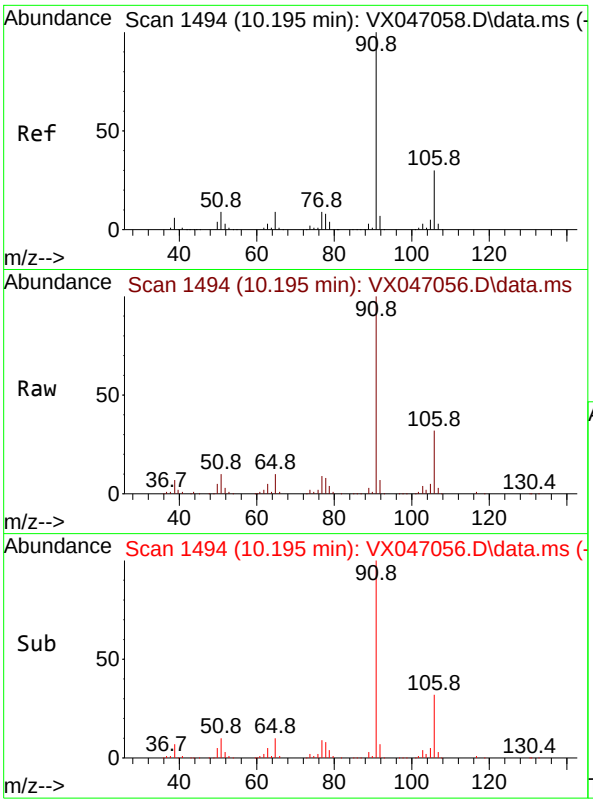


#66
1,1,1,2-Tetrachloroethane
Concen: 5.267 ug/l
RT: 10.164 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:131 Resp: 20300

Ion	Ratio	Lower	Upper
131	100		
133	97.1	48.4	145.3
119	66.9	32.4	97.0



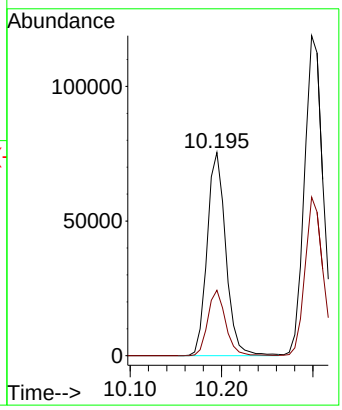


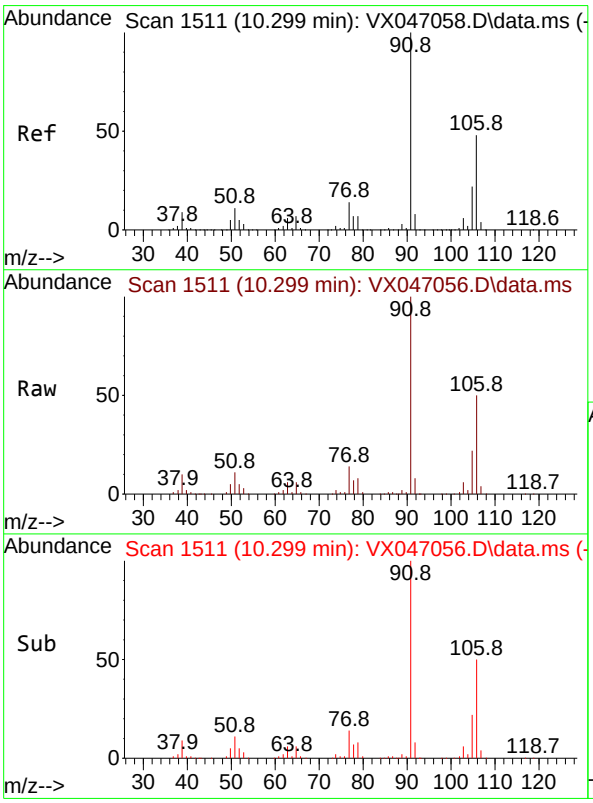
#67
Ethyl Benzene
Concen: 5.345 ug/l
RT: 10.195 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 106984

Ion	Ratio	Lower	Upper
91	100		
106	32.2	24.2	36.4

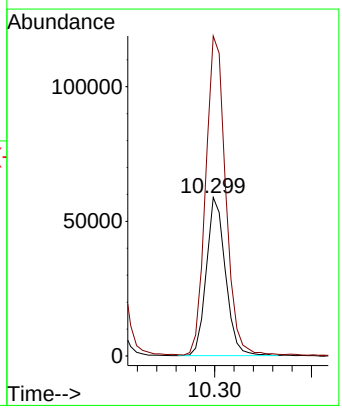


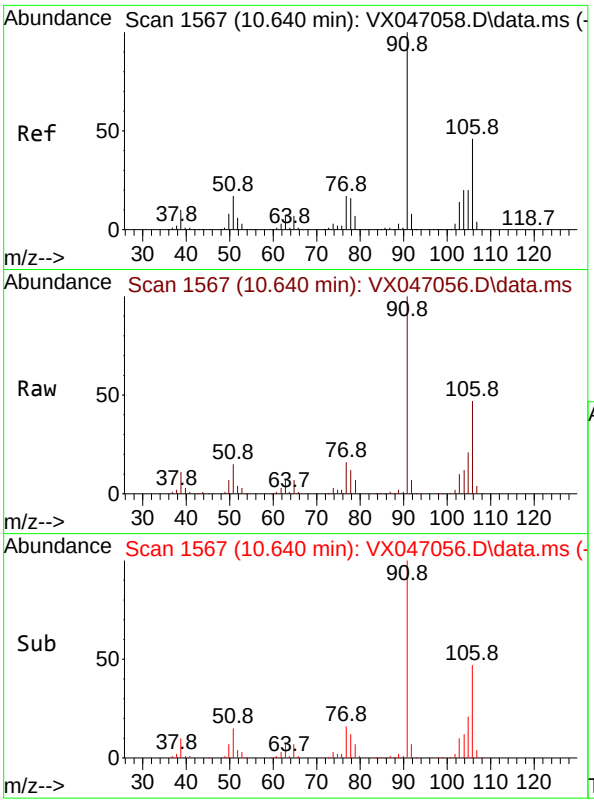


#68
m/p-Xylenes
Concen: 10.791 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:106 Resp: 80835

Ion	Ratio	Lower	Upper
106	100		
91	211.3	167.4	251.0



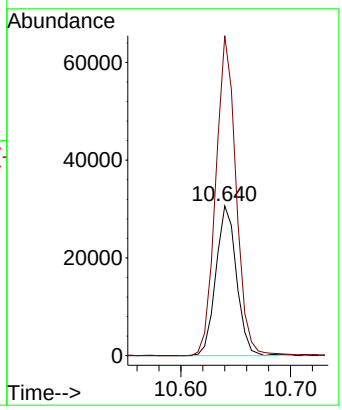


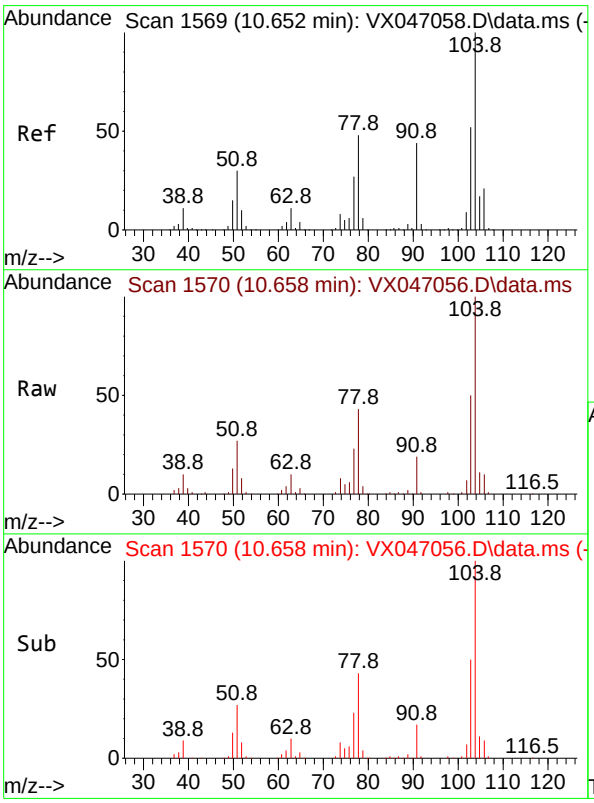
#69
o-Xylene
Concen: 5.623 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 40071

Ion	Ratio	Lower	Upper
106	100		
91	211.4	110.3	331.0

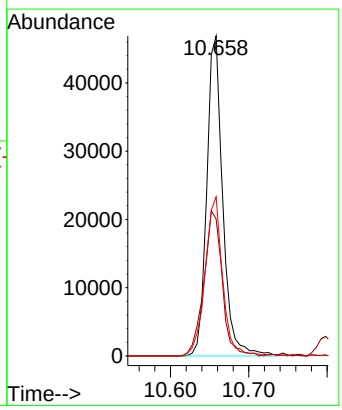


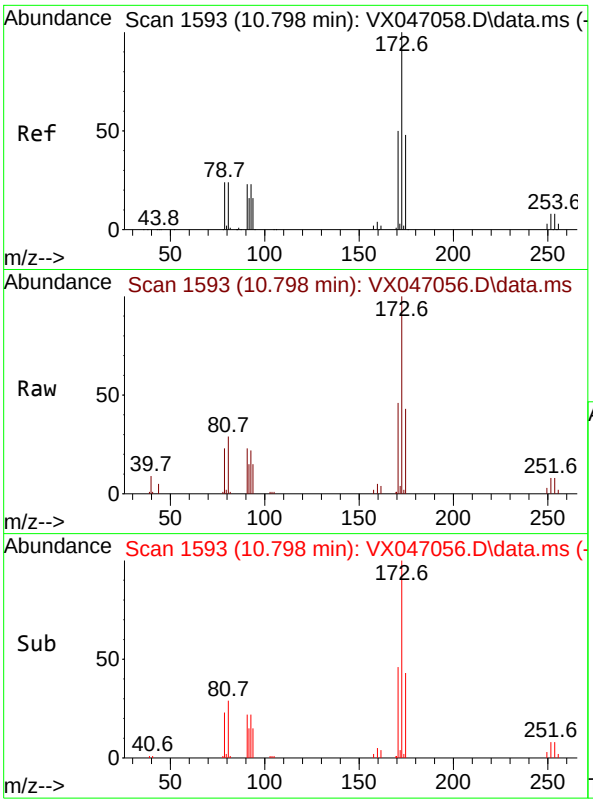


#70
Styrene
Concen: 5.424 ug/l
RT: 10.658 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:104 Resp: 66283

Ion	Ratio	Lower	Upper
104	100		
78	52.3	42.0	63.0
103	54.3	43.8	65.6



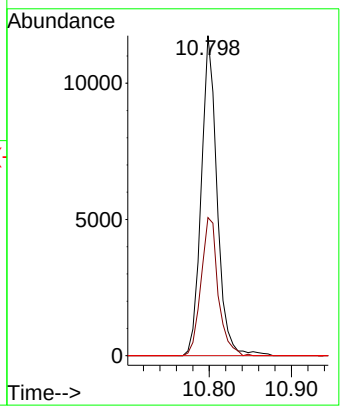


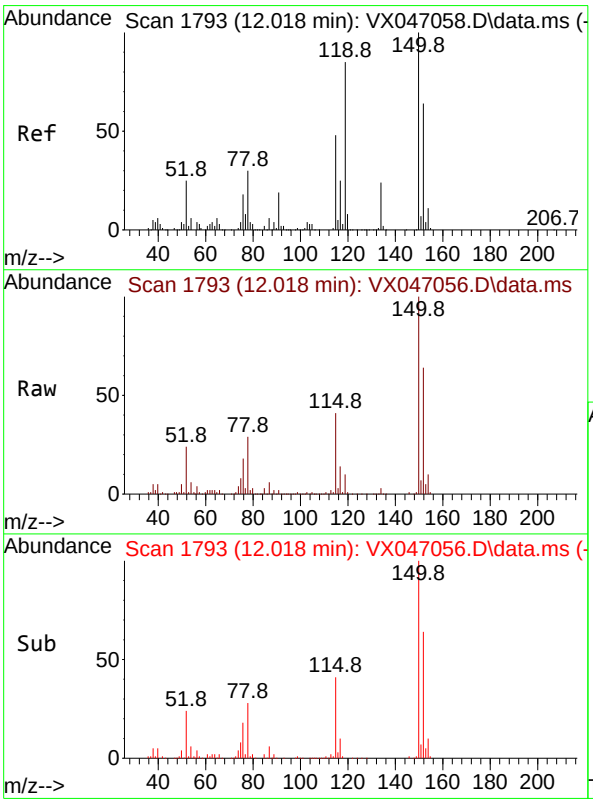
#71
Bromoform
Concen: 5.384 ug/l
RT: 10.798 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 15763

Ion	Ratio	Lower	Upper
173	100		
175	46.6	24.2	72.6
254	0.0	0.1	0.1#

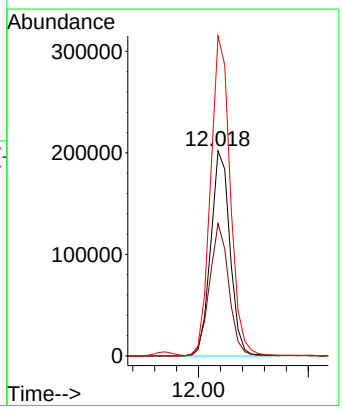


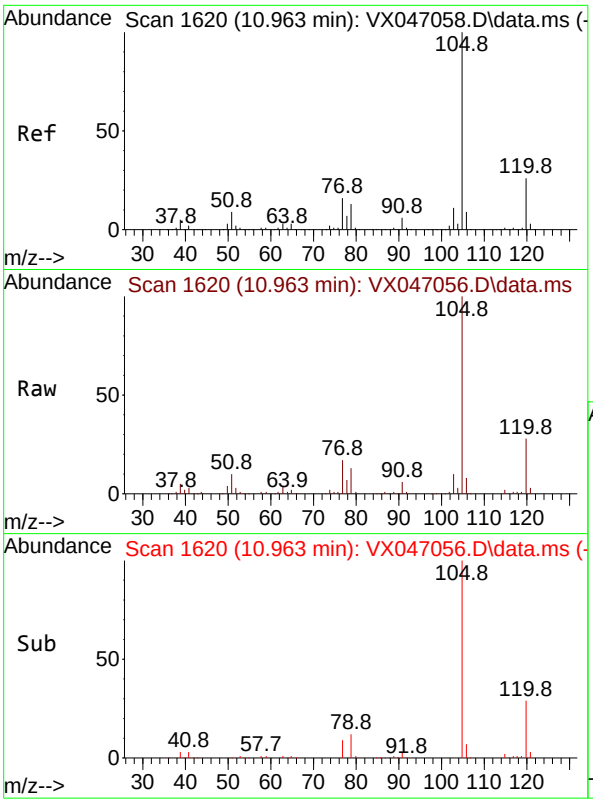


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:152 Resp: 246301

Ion	Ratio	Lower	Upper
152	100		
115	65.0	45.6	136.7
150	159.5	0.0	354.6



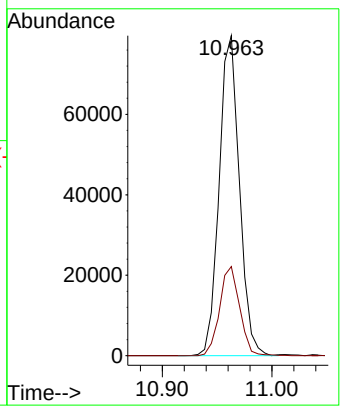


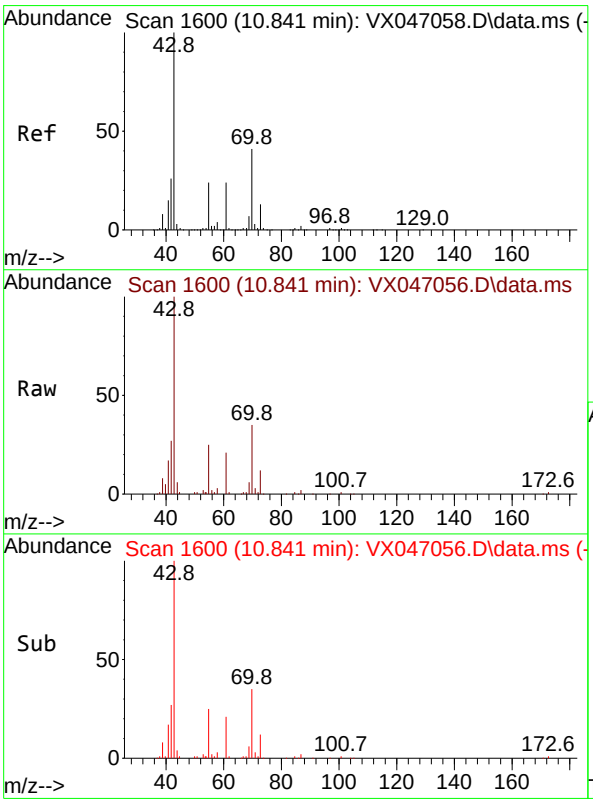
#73
Isopropylbenzene
Concen: 5.257 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 102157

Ion	Ratio	Lower	Upper
105	100		
120	27.6	12.9	38.7

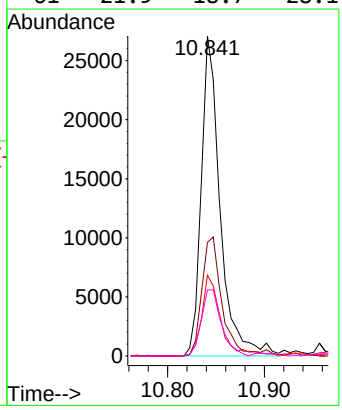


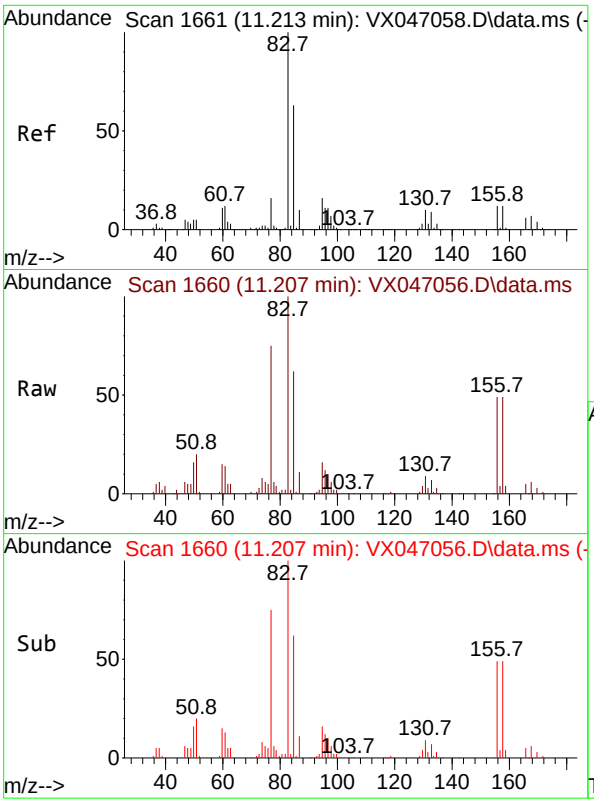


#74
N-amyl acetate
Concen: 4.769 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 36965

Ion	Ratio	Lower	Upper
43	100		
70	40.0	32.3	48.5
55	25.3	18.9	28.3
61	21.9	18.7	28.1



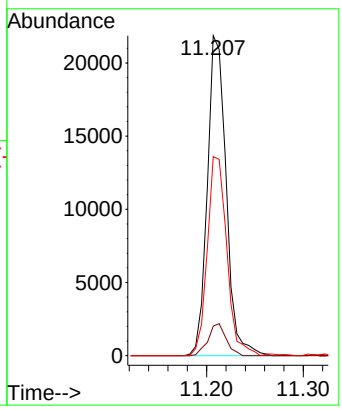


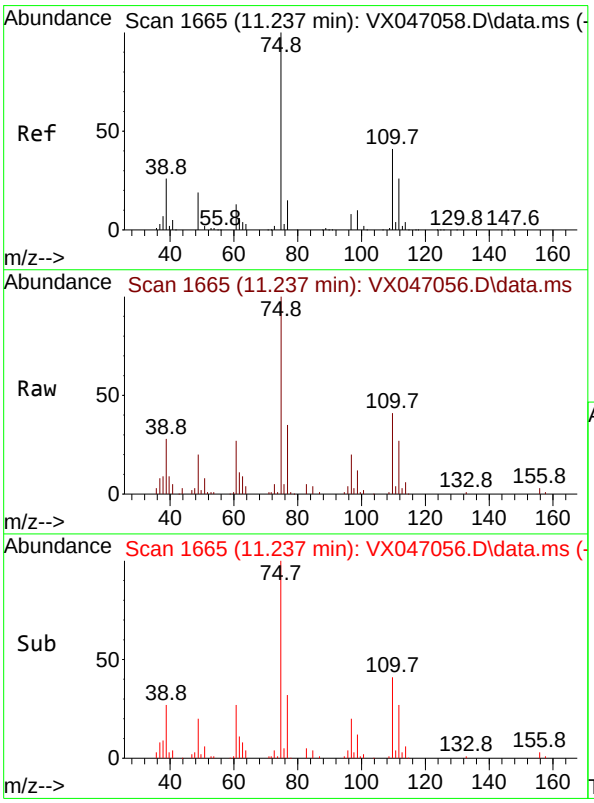
#75
1,1,2,2-Tetrachloroethane
Concen: 5.338 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 29627

Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.0	14.9
85	64.5	32.0	96.2

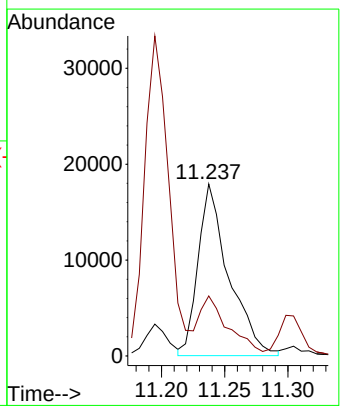


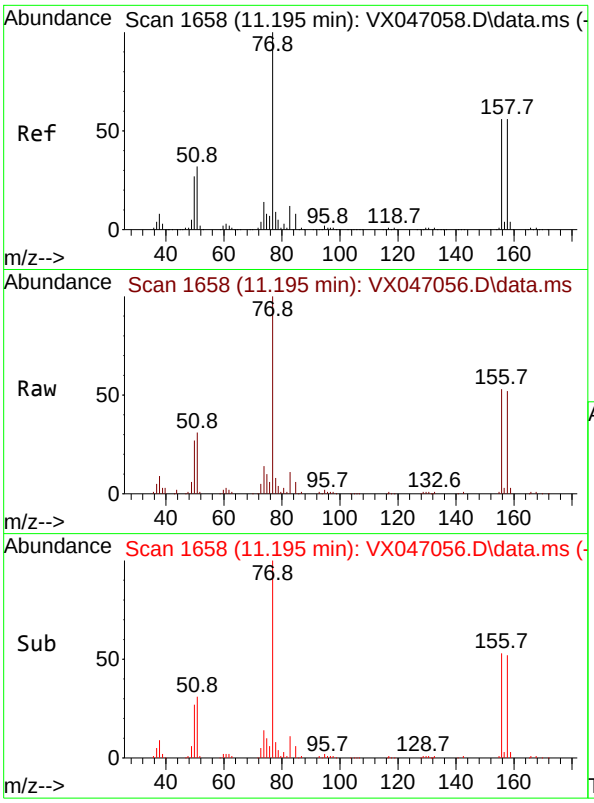


#76
1,2,3-Trichloropropane
Concen: 6.651 ug/l
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 30322

Ion	Ratio	Lower	Upper
75	100		
77	32.3	21.6	65.0



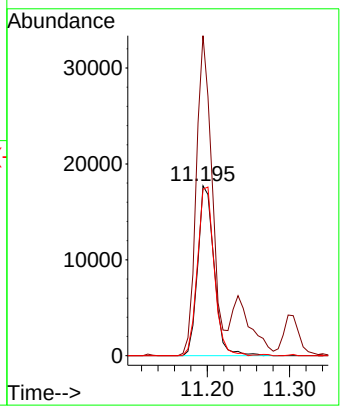


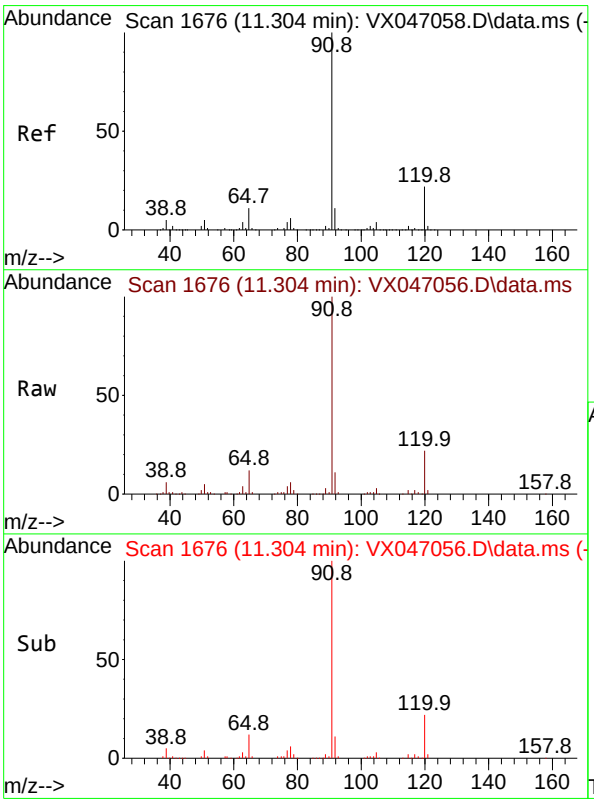
#77
Bromobenzene
Concen: 5.267 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 24549

Ion	Ratio	Lower	Upper
156	100		
77	182.6	87.3	261.9
158	101.5	48.9	146.6

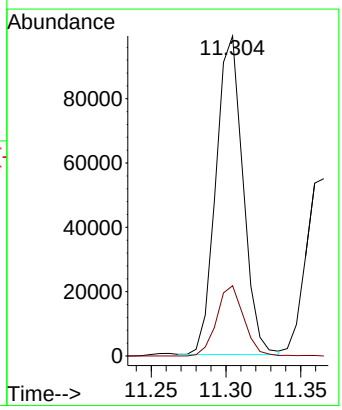


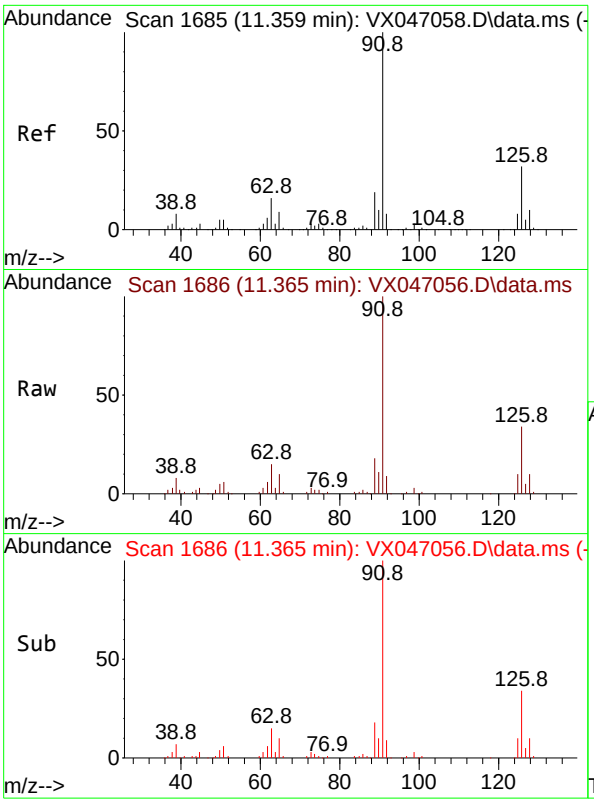


#78
n-propylbenzene
Concen: 5.368 ug/l
RT: 11.304 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 91 Resp: 124648

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0



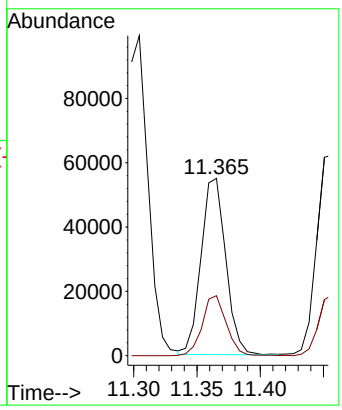


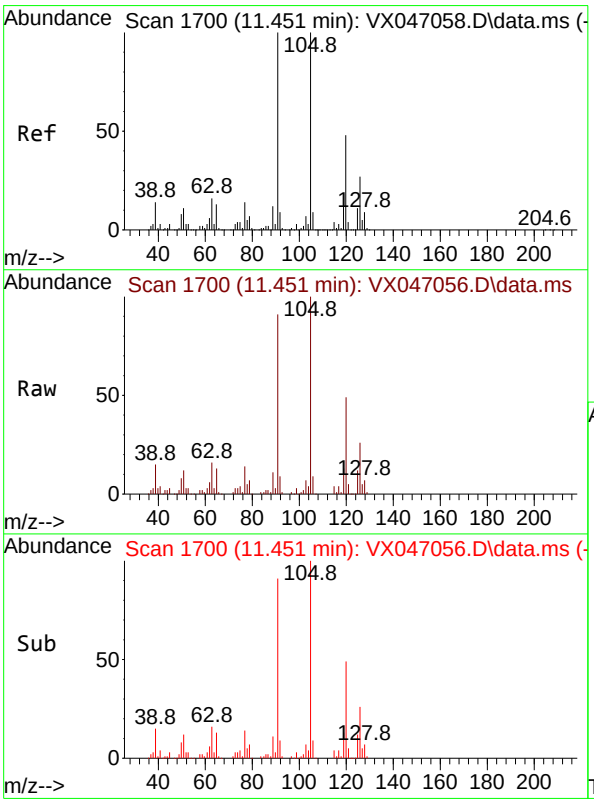
#79
2-Chlorotoluene
Concen: 5.387 ug/l
RT: 11.365 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 74781

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.4

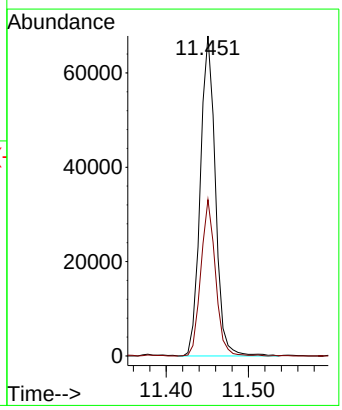


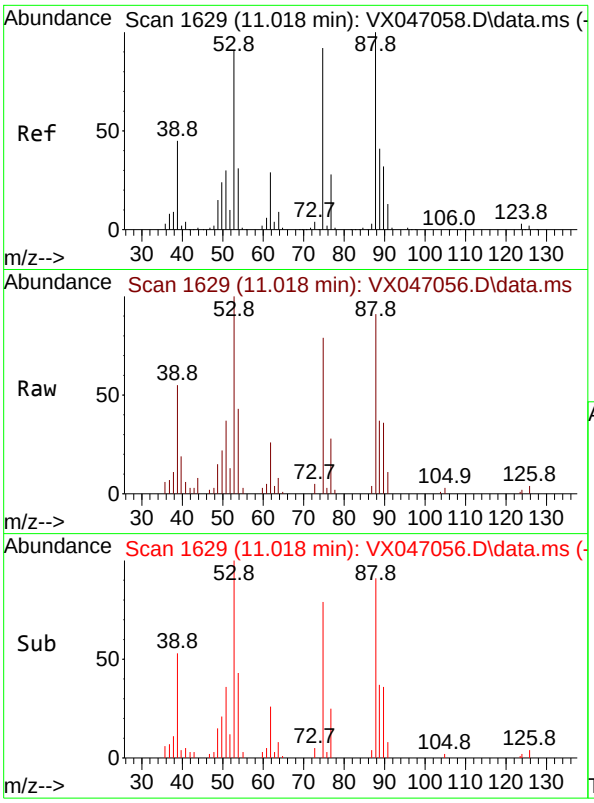


#80
1,3,5-Trimethylbenzene
Concen: 5.383 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:105 Resp: 86414

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.8	71.5



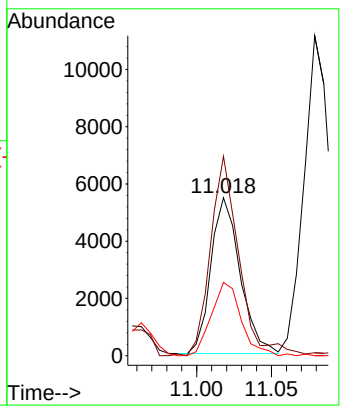


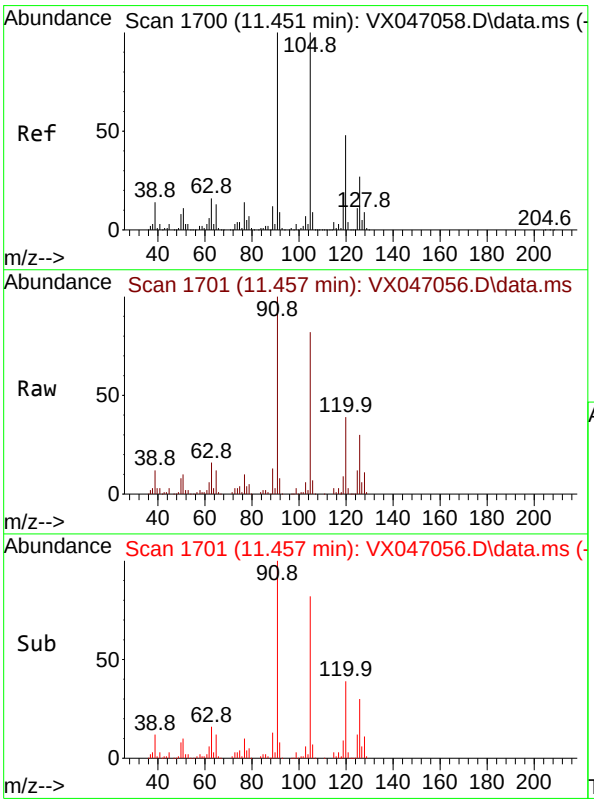
#81
trans-1,4-Dichloro-2-butene
Concen: 4.186 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 7407

Ion	Ratio	Lower	Upper
75	100		
53	124.4	84.2	126.4
89	48.2	36.0	54.0

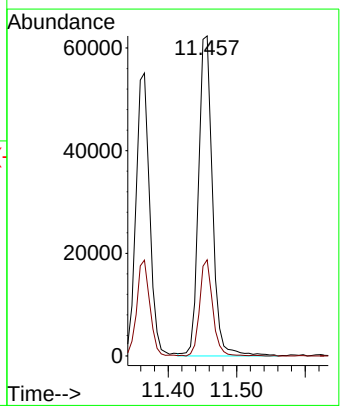


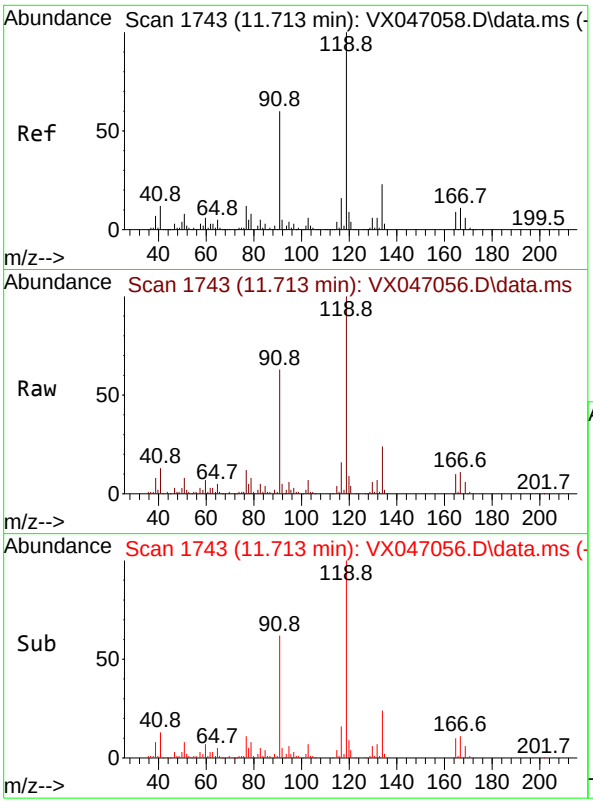


#82
4-Chlorotoluene
Concen: 5.450 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 91 Resp: 88304

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.1	42.3



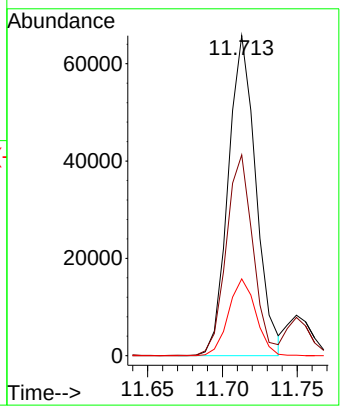


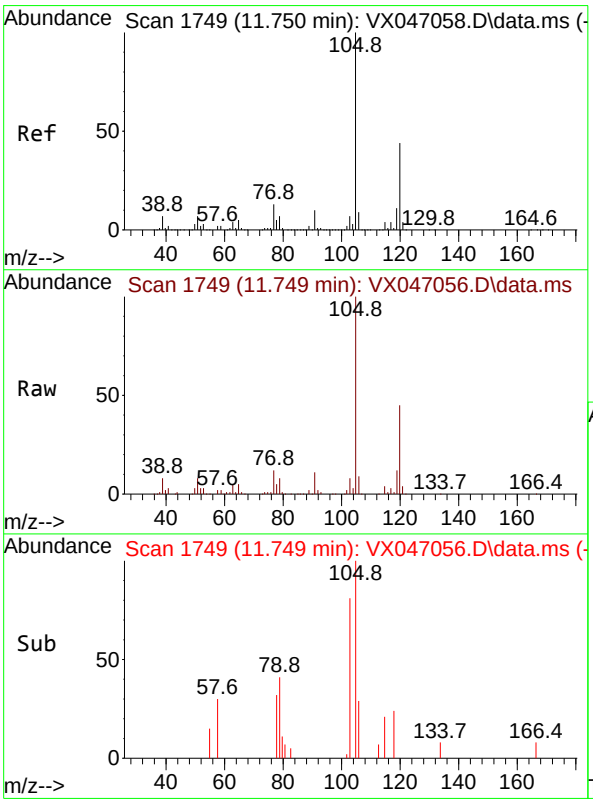
#83
tert-Butylbenzene
Concen: 5.248 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 84560

Ion	Ratio	Lower	Upper
119	100		
91	61.4	29.6	88.8
134	23.8	11.4	34.1

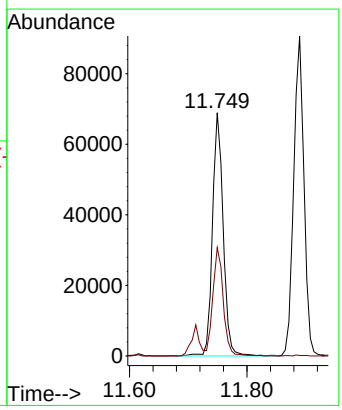


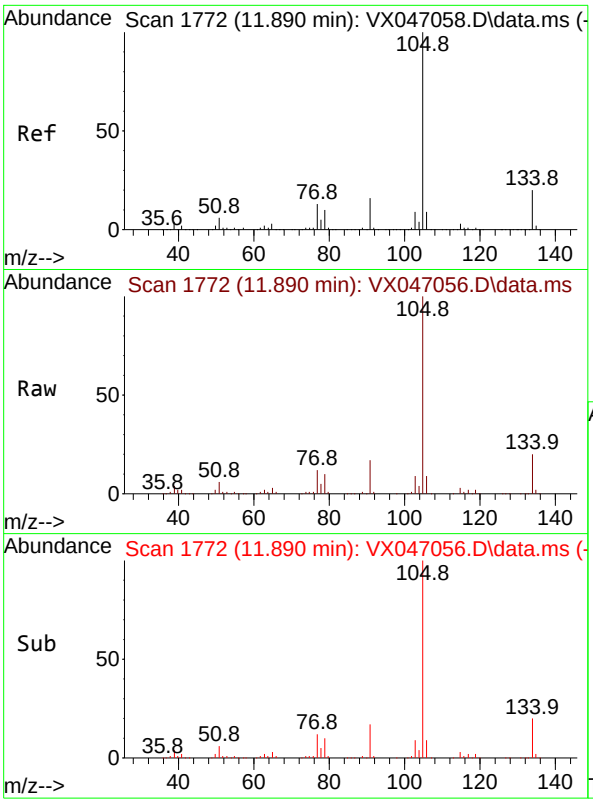


#84
1,2,4-Trimethylbenzene
Concen: 5.451 ug/l
RT: 11.749 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:105 Resp: 87289

Ion	Ratio	Lower	Upper
105	100		
120	43.1	22.0	66.0



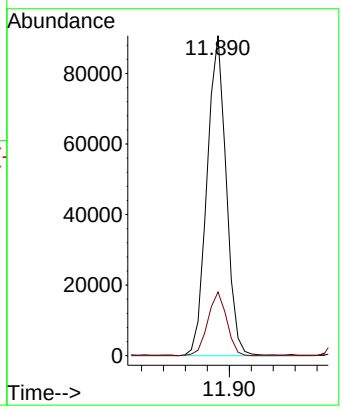


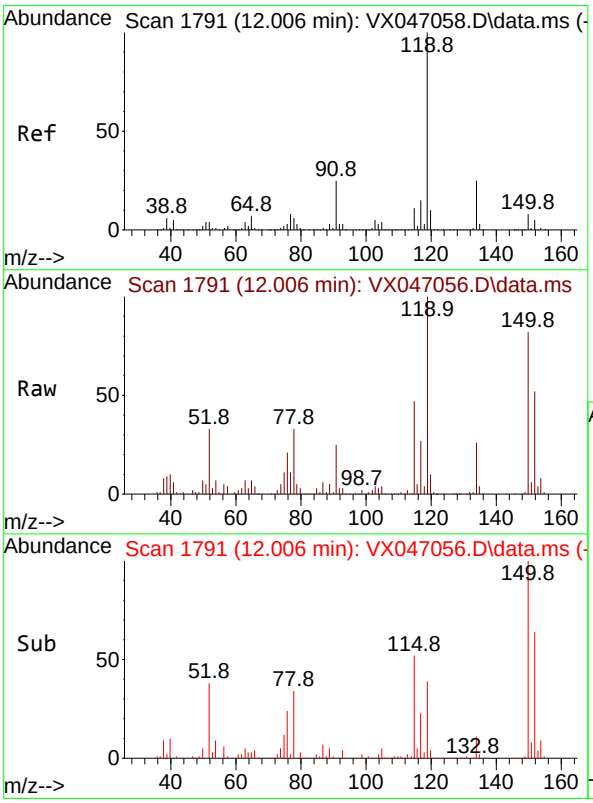
#85
sec-Butylbenzene
Concen: 5.477 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 110255

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.9	29.7

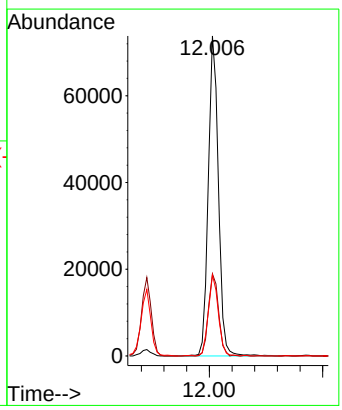


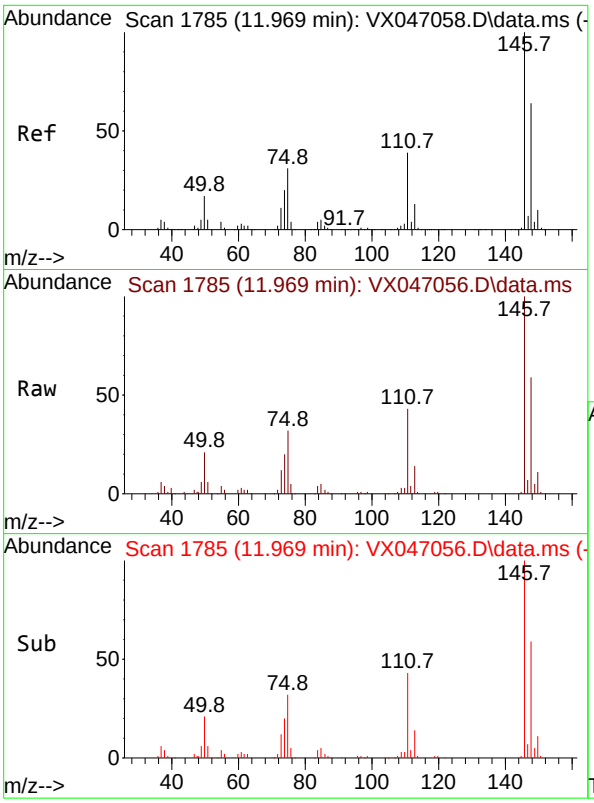


#86
p-Isopropyltoluene
Concen: 5.457 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:119 Resp: 91112

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.8	38.4
91	25.1	12.4	37.4



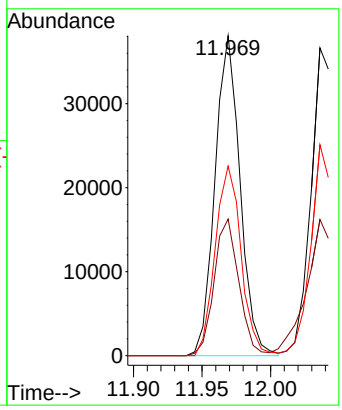


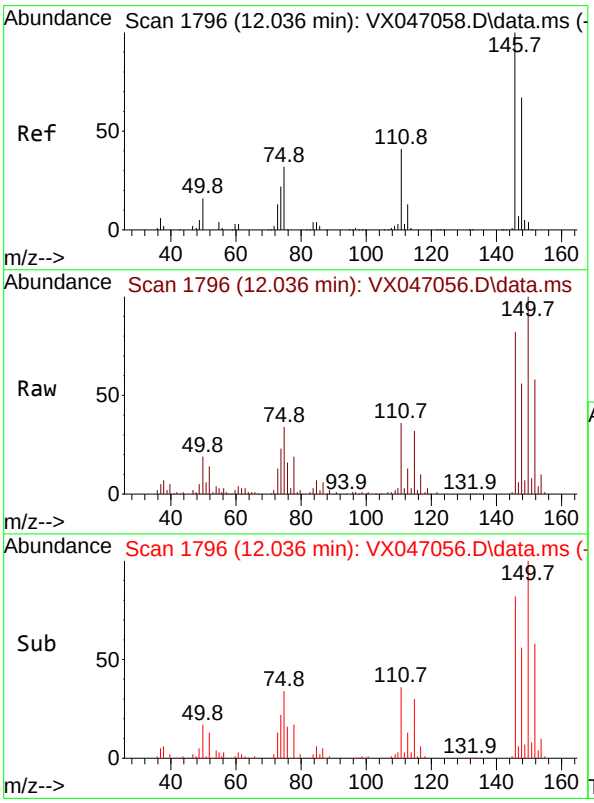
#87
1,3-Dichlorobenzene
Concen: 5.473 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 48466

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.0	63.0
148	61.3	32.0	96.0

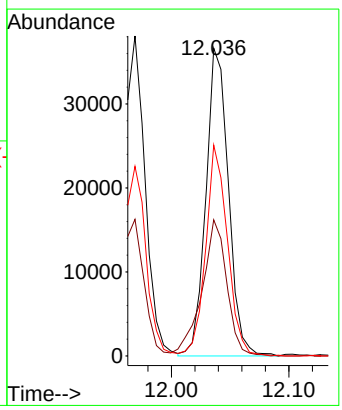


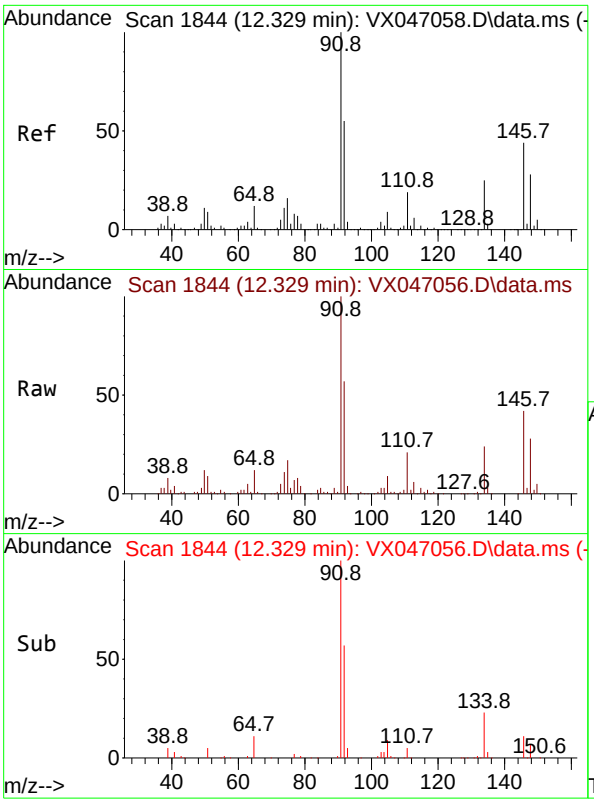


#88
1,4-Dichlorobenzene
Concen: 5.441 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:146 Resp: 48817

Ion	Ratio	Lower	Upper
146	100		
111	49.0	20.6	61.9
148	66.3	33.0	98.9



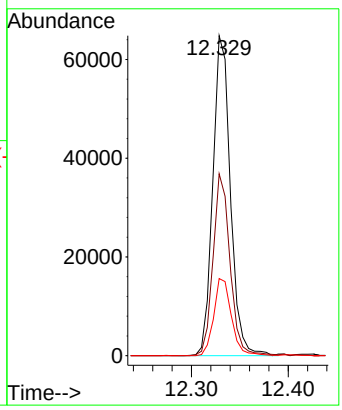


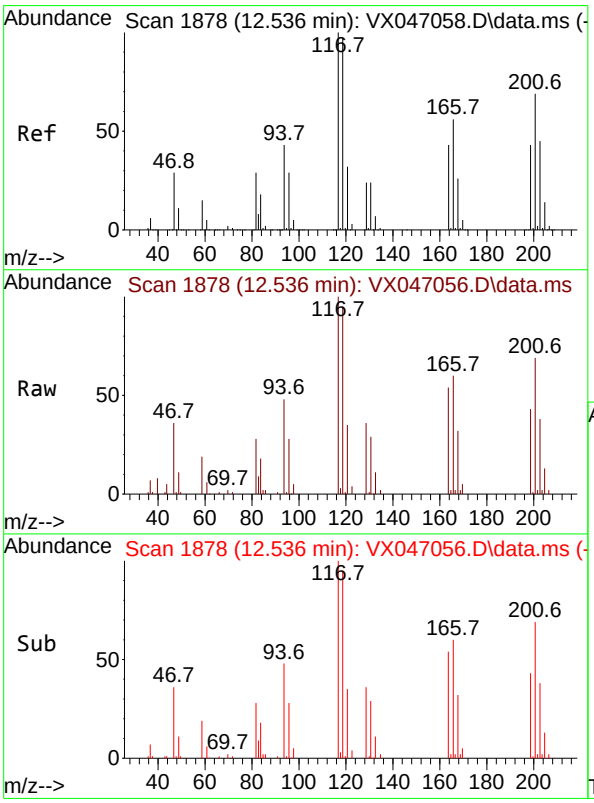
#89
n-Butylbenzene
Concen: 5.219 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 81710

Ion	Ratio	Lower	Upper
91	100		
92	55.4	27.5	82.5
134	24.3	12.8	38.3

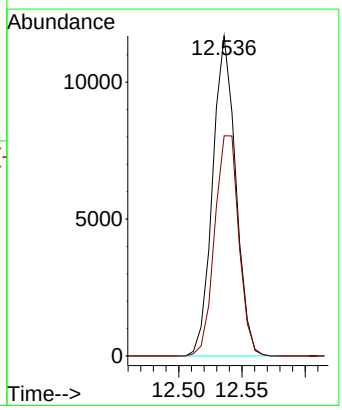


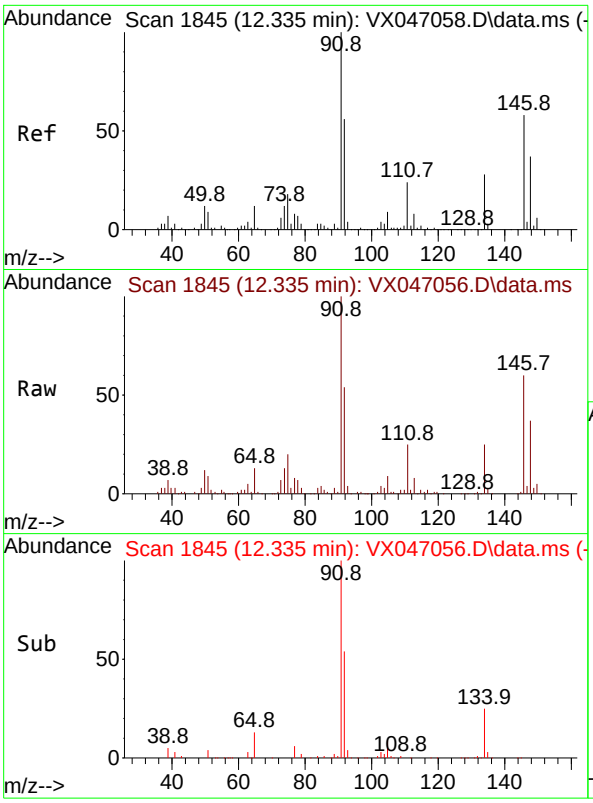


#90
Hexachloroethane
Concen: 4.953 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:117 Resp: 14794

Ion	Ratio	Lower	Upper
117	100		
201	72.2	34.8	104.5



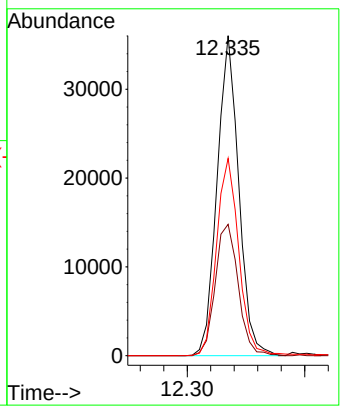


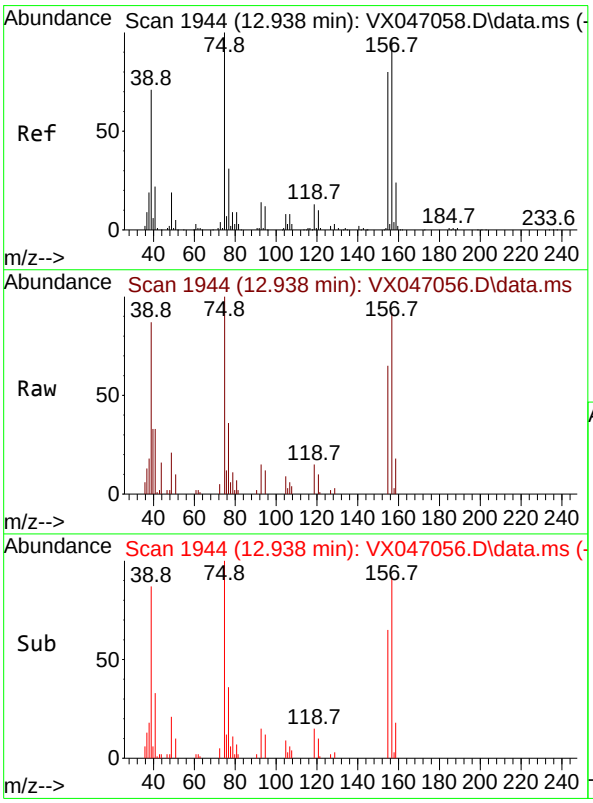
#91
1,2-Dichlorobenzene
Concen: 5.450 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 46129

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.6	64.6
148	63.8	31.9	95.7

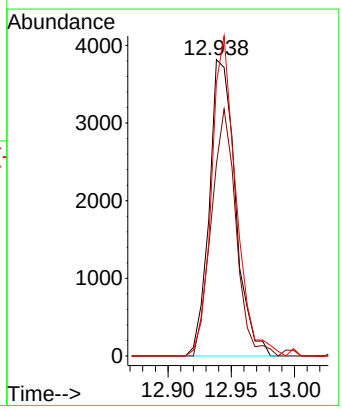


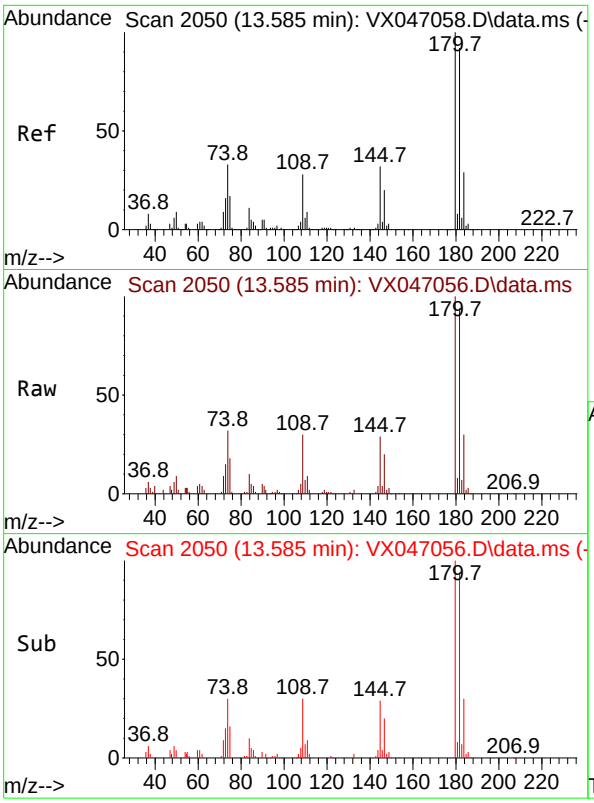


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.148 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 5485

Ion	Ratio	Lower	Upper
75	100		
155	78.4	41.3	124.1
157	100.8	52.8	158.3



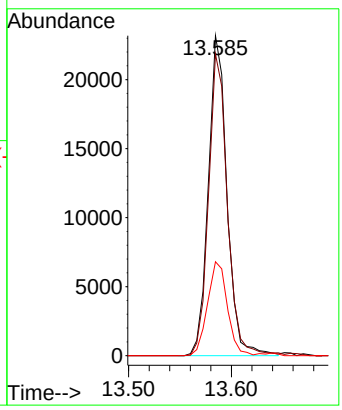


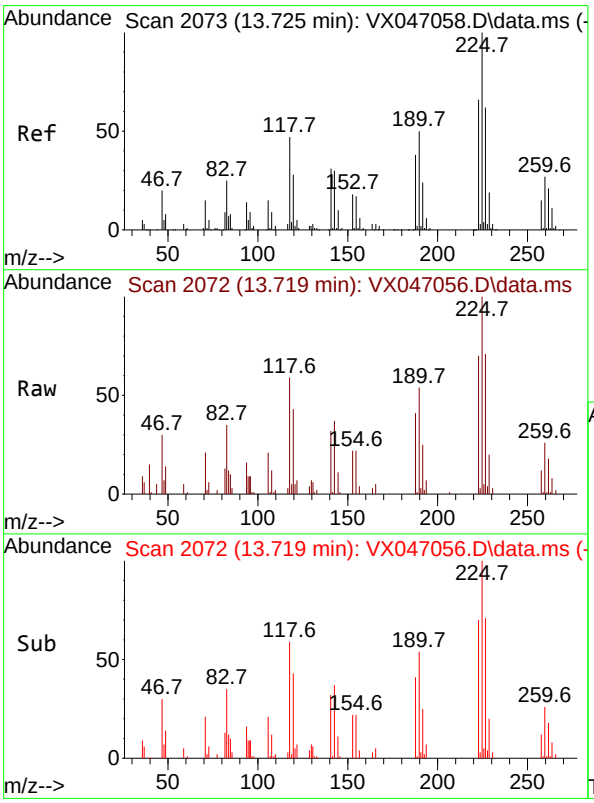
#93
1,2,4-Trichlorobenzene
Concen: 5.239 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 29296

Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.3	141.8
145	31.2	16.4	49.1

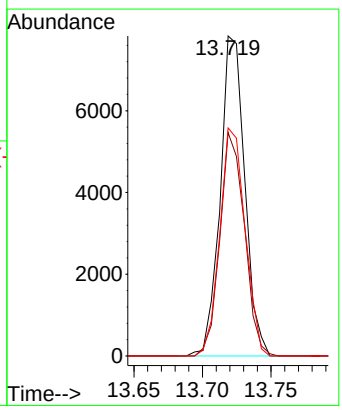


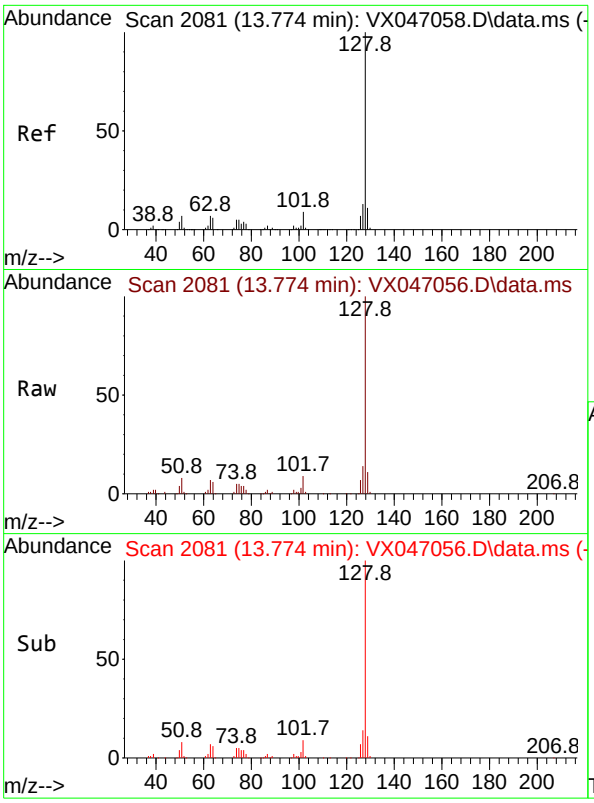


#94
Hexachlorobutadiene
Concen: 5.122 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:225 Resp: 9742

Ion	Ratio	Lower	Upper
225	100		
223	69.6	31.6	95.0
227	73.4	32.9	98.6



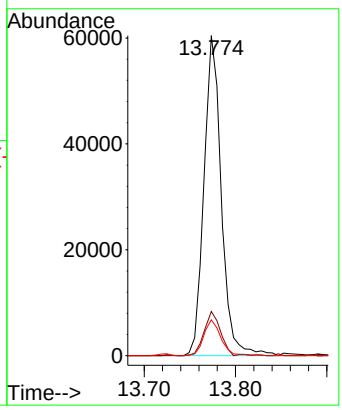


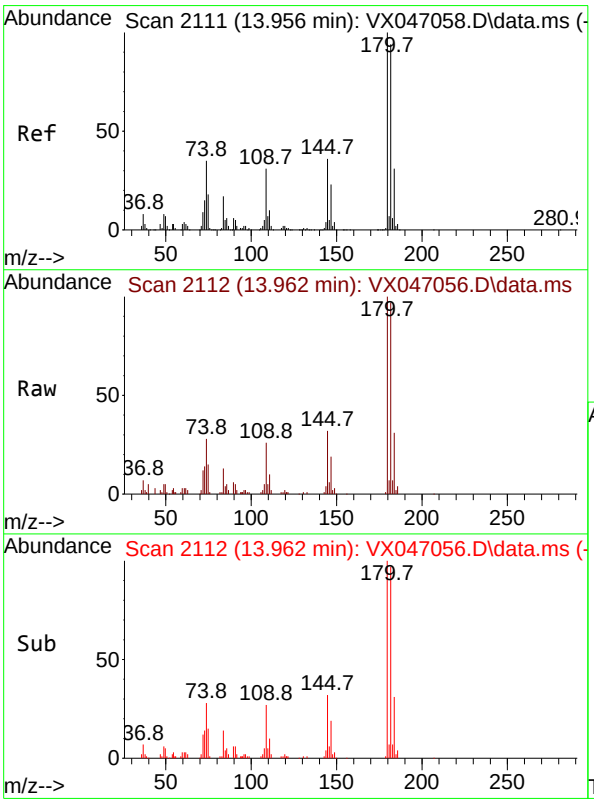
#95
Naphthalene
Concen: 4.854 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 79568

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.1	15.1
129	11.1	8.6	13.0

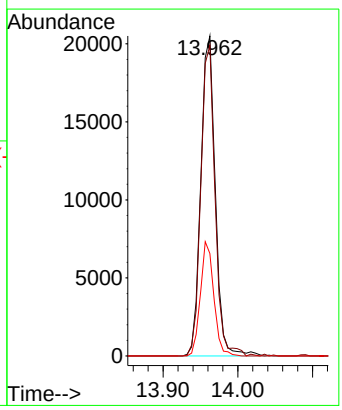




#96
1,2,3-Trichlorobenzene
Concen: 5.120 ug/l
RT: 13.962 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX047056.D
Acq: 21 Jul 2025 10:08

Tgt Ion:180 Resp: 27584

Ion	Ratio	Lower	Upper
180	100		
182	95.2	46.9	140.6
145	33.1	17.3	52.0



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047057.D
Acq On : 21 Jul 2025 10:29
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Jul 22 03:37:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	320913	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	544303	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	486572	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	240632	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	65541	16.395	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 32.800%#			
35) Dibromofluoromethane	5.397	113	57105	16.992	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 33.980%#			
50) Toluene-d8	8.653	98	178825	16.431	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 32.860%#			
62) 4-Bromofluorobenzene	11.079	95	80359	17.133	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 34.260%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	78327	18.376	ug/l	99
3) Chloromethane	1.306	50	80305	19.046	ug/l	98
4) Vinyl Chloride	1.386	62	89887	19.832	ug/l	96
5) Bromomethane	1.617	94	51290	20.832	ug/l	92
6) Chloroethane	1.703	64	55955	18.797	ug/l	99
7) Trichlorofluoromethane	1.904	101	135815	20.095	ug/l	98
8) Diethyl Ether	2.148	74	48319	20.277	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.343	101	82864	20.350	ug/l	100
10) Methyl Iodide	2.465	142	70850	17.073	ug/l	98
11) Tert butyl alcohol	2.959	59	48048	96.502	ug/l	98
12) 1,1-Dichloroethene	2.337	96	81489	20.206	ug/l	96
13) Acrolein	2.245	56	83483	96.989	ug/l	97
14) Allyl chloride	2.678	41	149196	20.465	ug/l	99
15) Acrylonitrile	3.074	53	203243	106.603	ug/l	100
16) Acetone	2.385	43	157932	98.619	ug/l	97
17) Carbon Disulfide	2.526	76	234036	20.059	ug/l	99
18) Methyl Acetate	2.715	43	81624	19.180	ug/l	97
19) Methyl tert-butyl Ether	3.123	73	251581	20.497	ug/l	99
20) Methylene Chloride	2.806	84	90849	20.621	ug/l	99
21) trans-1,2-Dichloroethene	3.105	96	85583	20.738	ug/l	97
22) Diisopropyl ether	3.769	45	293875	20.967	ug/l	91
23) Vinyl Acetate	3.733	43	1192633	106.090	ug/l	99
24) 1,1-Dichloroethane	3.623	63	159828	20.507	ug/l	99
25) 2-Butanone	4.568	43	238246	102.172	ug/l	97
26) 2,2-Dichloropropane	4.495	77	119113	19.743	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	99794	20.420	ug/l	99
28) Bromochloromethane	4.909	49	72912	20.334	ug/l	97
29) Tetrahydrofuran	5.019	42	156819	104.232	ug/l	100
30) Chloroform	5.104	83	160698	20.255	ug/l	100
31) Cyclohexane	5.482	56	152430	20.397	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	141289	20.503	ug/l	100
36) 1,1-Dichloropropene	5.702	75	114925	20.062	ug/l	99
37) Ethyl Acetate	4.726	43	95455	18.907	ug/l	99
38) Carbon Tetrachloride	5.684	117	123204	20.150	ug/l	99
39) Methylcyclohexane	7.385	83	146762	20.519	ug/l	99
40) Benzene	6.049	78	342454	20.656	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047057.D
Acq On : 21 Jul 2025 10:29
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Jul 22 03:37:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	56166	20.350	ug/l		95
42) 1,2-Dichloroethane	6.098	62	121515	20.808	ug/l		98
43) Isopropyl Acetate	6.342	43	171186	20.802	ug/l		99
44) Trichloroethene	7.128	130	85446	20.099	ug/l		98
45) 1,2-Dichloropropane	7.433	63	85547	20.603	ug/l		94
46) Dibromomethane	7.586	93	59949	20.588	ug/l		99
47) Bromodichloromethane	7.824	83	126091	20.345	ug/l		99
48) Methyl methacrylate	7.695	41	86386	19.269	ug/l		97
49) 1,4-Dioxane	7.665	88	21524	422.133	ug/l		97
51) 4-Methyl-2-Pentanone	8.573	43	511307	104.532	ug/l		99
52) Toluene	8.720	92	214955	21.087	ug/l		100
53) t-1,3-Dichloropropene	8.982	75	118872	20.311	ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	134587	21.011	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	81137	21.224	ug/l		98
56) Ethyl methacrylate	9.116	69	121053	21.389	ug/l		98
57) 1,3-Dichloropropane	9.311	76	139031	20.925	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	294878	93.631	ug/l		100
59) 2-Hexanone	9.427	43	352298	109.015	ug/l		97
60) Dibromochloromethane	9.518	129	93165	20.779	ug/l		100
61) 1,2-Dibromoethane	9.610	107	82035	20.522	ug/l		99
64) Tetrachloroethene	9.274	164	74177	21.147	ug/l		95
65) Chlorobenzene	10.079	112	238428	20.917	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.158	131	78682	20.502	ug/l		98
67) Ethyl Benzene	10.195	91	412412	20.693	ug/l		99
68) m/p-Xylenes	10.299	106	309353	41.478	ug/l		98
69) o-Xylene	10.640	106	149592	21.083	ug/l		100
70) Styrene	10.652	104	259267	21.310	ug/l		100
71) Bromoform	10.799	173	58699	20.135	ug/l	#	100
73) Isopropylbenzene	10.963	105	399077	21.021	ug/l		100
74) N-amyl acetate	10.841	43	155675	20.558	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	113741	20.975	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	119868	26.913	ug/l		84
77) Bromobenzene	11.195	156	95957	21.073	ug/l		97
78) n-propylbenzene	11.298	91	476196	20.991	ug/l		100
79) 2-Chlorotoluene	11.359	91	278615	20.545	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	330824	21.093	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	31878	18.440	ug/l		94
82) 4-Chlorotoluene	11.451	91	331629	20.951	ug/l		99
83) tert-Butylbenzene	11.713	119	323819	20.571	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	328672	21.010	ug/l		100
85) sec-Butylbenzene	11.890	105	410930	20.892	ug/l		99
86) p-Isopropyltoluene	12.006	119	343591	21.065	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	179867	20.789	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	183173	20.897	ug/l		98
89) n-Butylbenzene	12.329	91	319940	20.916	ug/l		98
90) Hexachloroethane	12.536	117	58057	19.896	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	169749	20.528	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	21427	20.585	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	111525	20.413	ug/l		99
94) Hexachlorobutadiene	13.719	225	39186	21.090	ug/l		96
95) Naphthalene	13.774	128	329630	20.581	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	107542	20.432	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047057.D
Acq On : 21 Jul 2025 10:29
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Jul 22 03:37:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

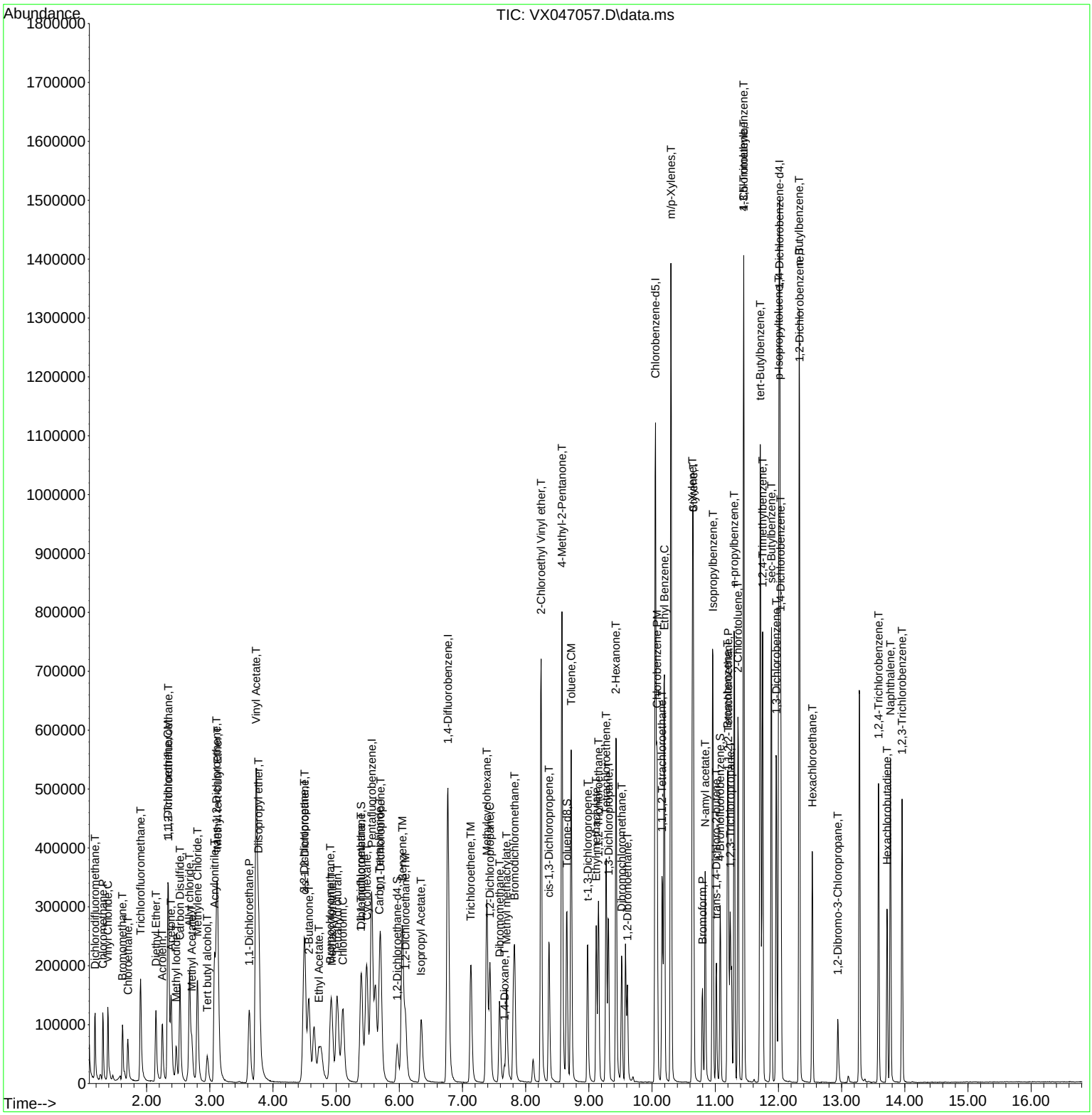
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

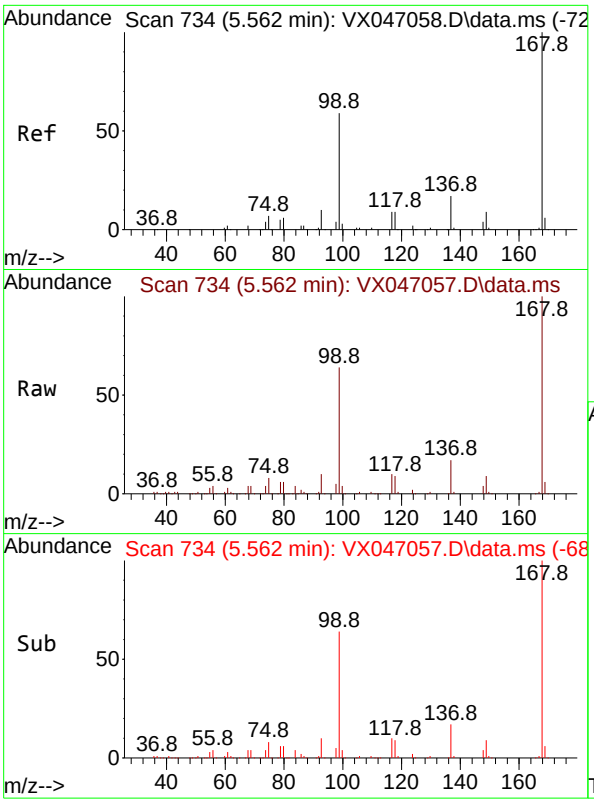
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047057.D
Acq On : 21 Jul 2025 10:29
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Jul 22 03:37:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration



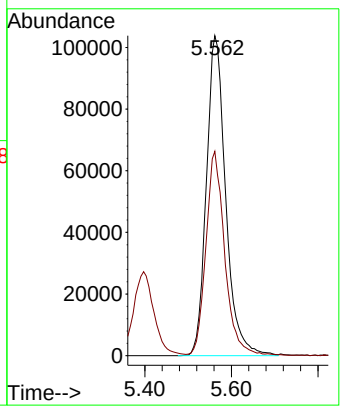


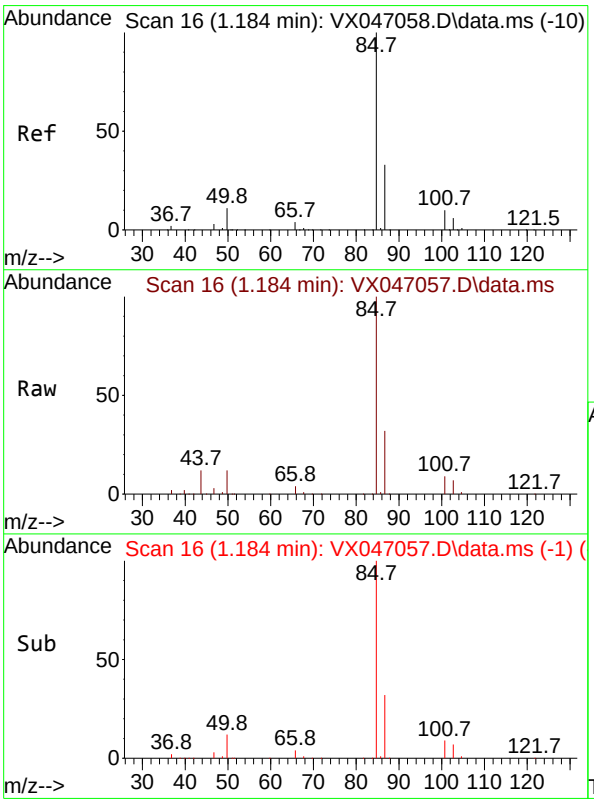
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 320913

Ion	Ratio	Lower	Upper
168	100		
99	63.5	48.0	72.0

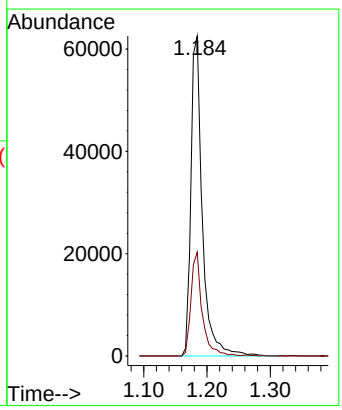


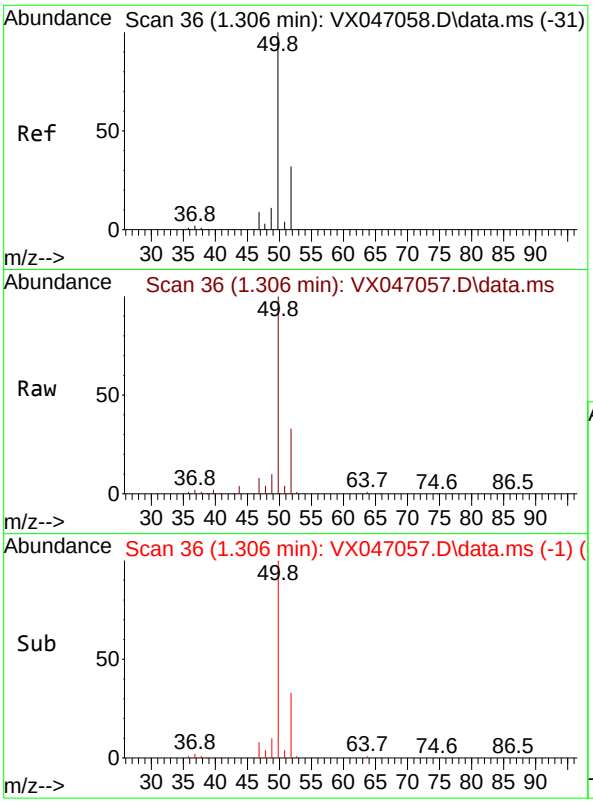


#2
Dichlorodifluoromethane
Concen: 18.376 ug/l
RT: 1.184 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 85 Resp: 78327

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.6	49.8



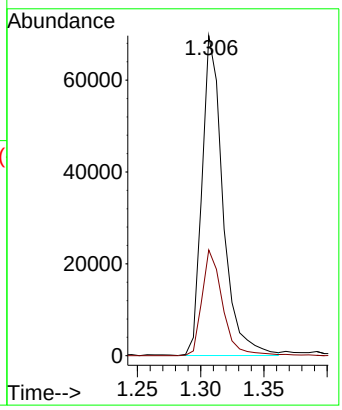


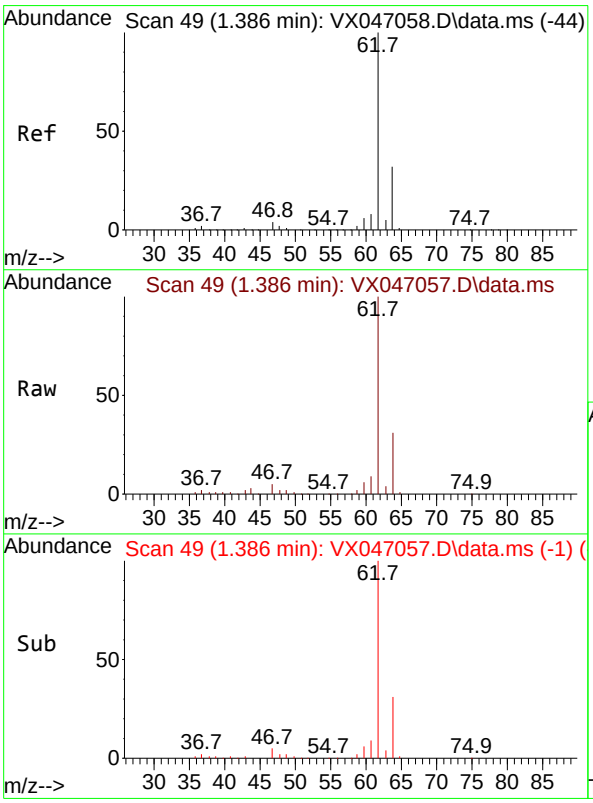
#3
Chloromethane
Concen: 19.046 ug/l
RT: 1.306 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 80305

Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.4	38.2

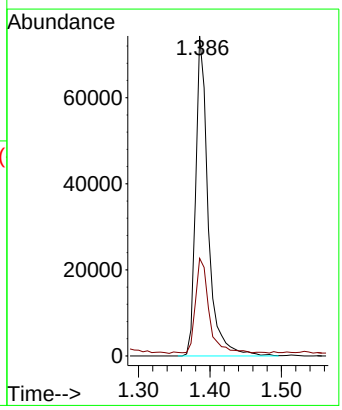


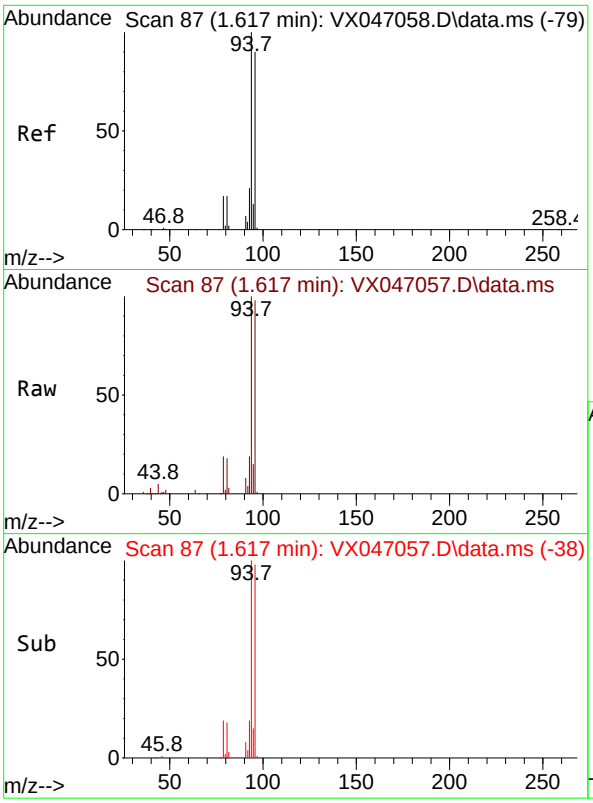


#4
Vinyl Chloride
Concen: 19.832 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 62 Resp: 89887

Ion	Ratio	Lower	Upper
62	100		
64	29.5	25.2	37.8



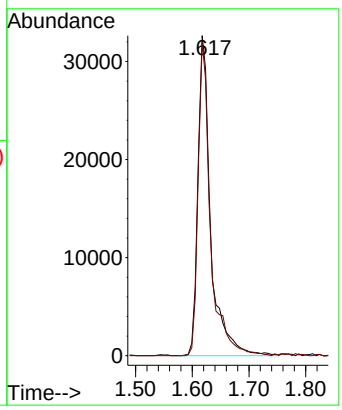


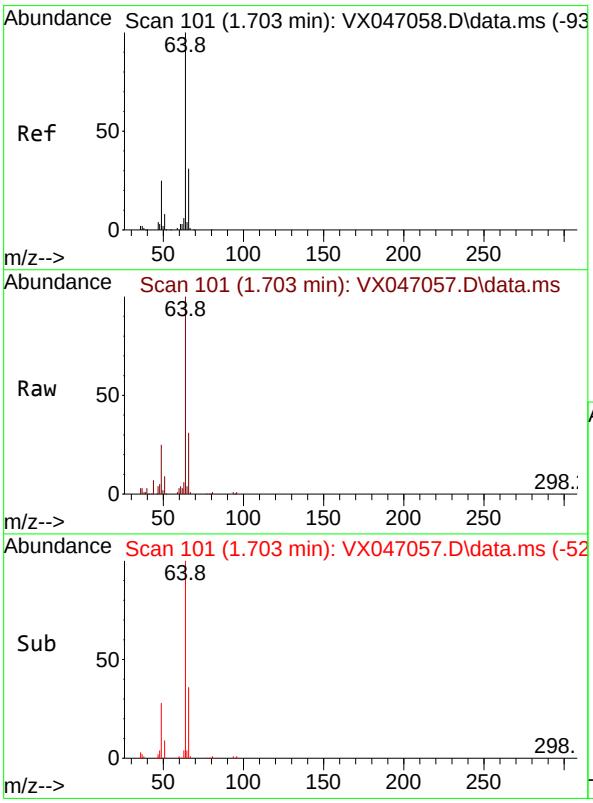
#5
Bromomethane
Concen: 20.832 ug/l
RT: 1.617 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 51290

Ion	Ratio	Lower	Upper
94	100		
96	98.1	72.3	108.5

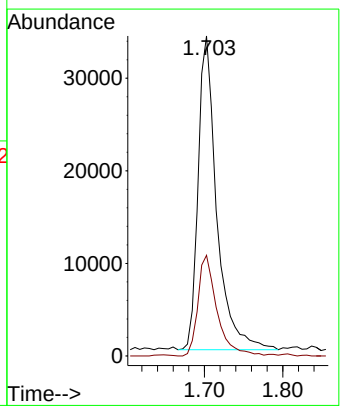


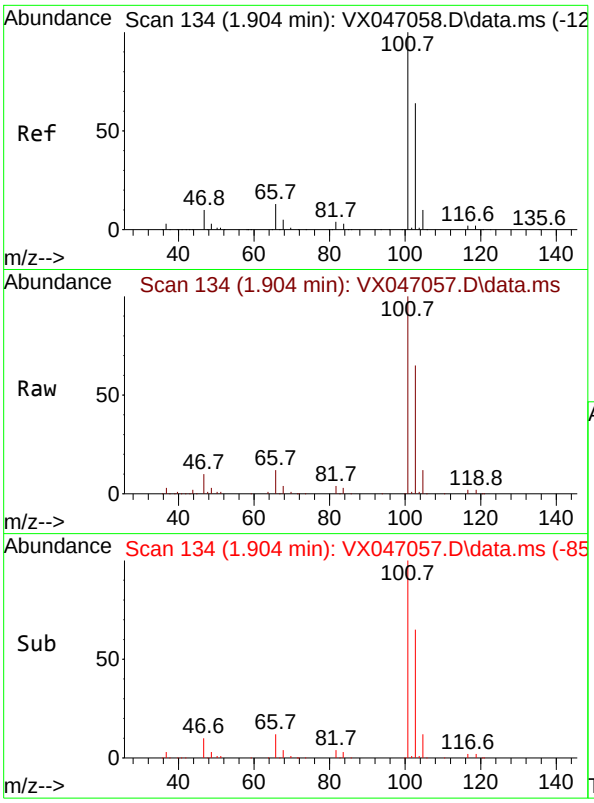


#6
Chloroethane
Concen: 18.797 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 64 Resp: 55955

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.0	37.6



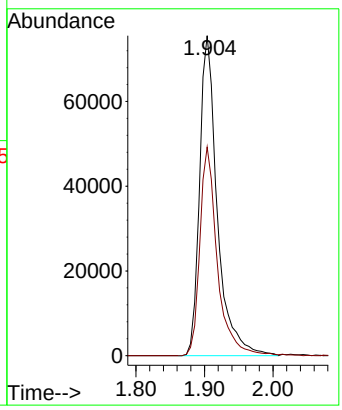


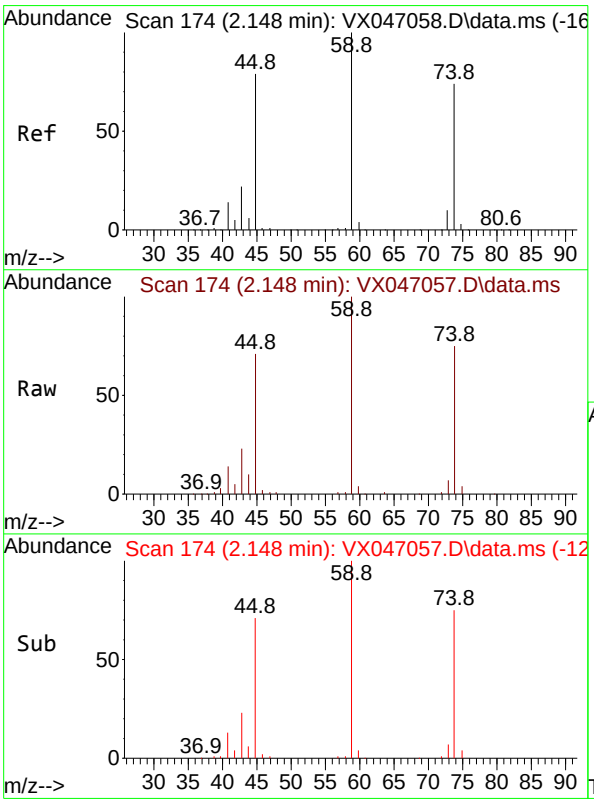
#7
Trichlorofluoromethane
Concen: 20.095 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 135815

Ion	Ratio	Lower	Upper
101	100		
103	65.2	50.9	76.3

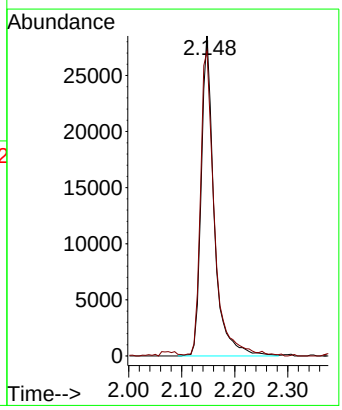


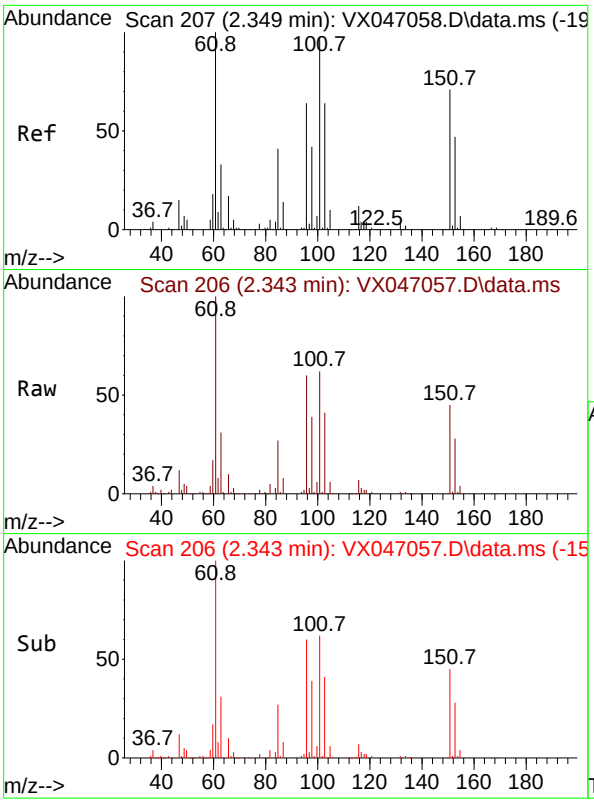


#8
Diethyl Ether
Concen: 20.277 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 74 Resp: 48319

Ion	Ratio	Lower	Upper
74	100		
45	103.6	53.0	159.0



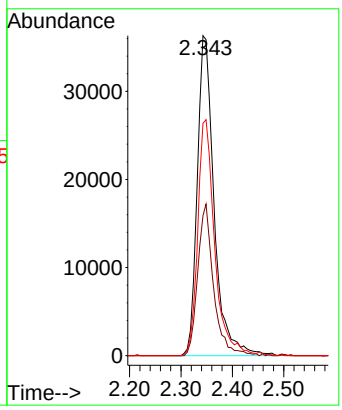


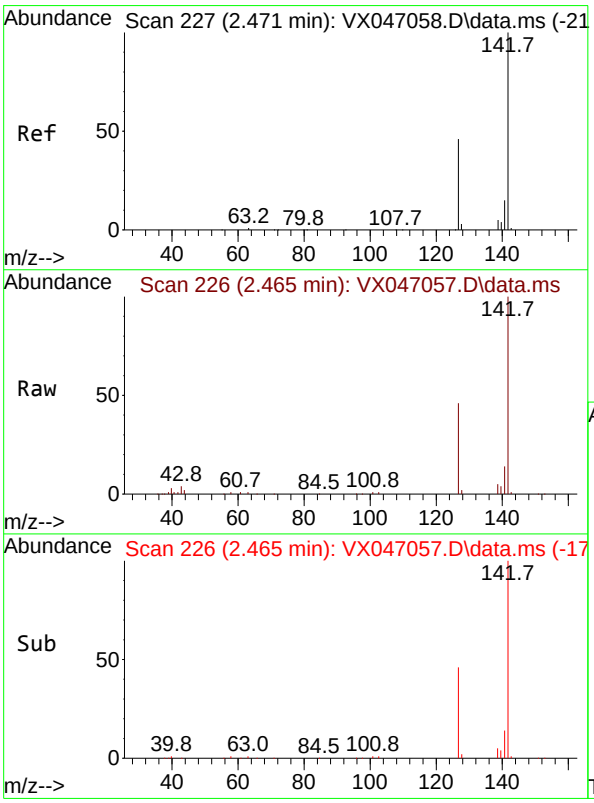
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.350 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 82864

Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.4	53.0
151	73.8	59.2	88.8

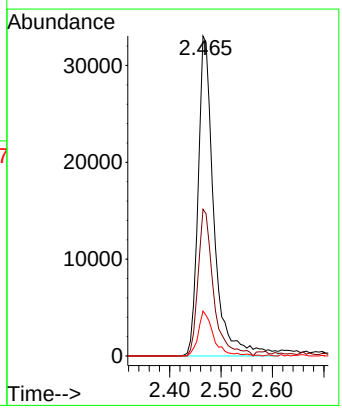


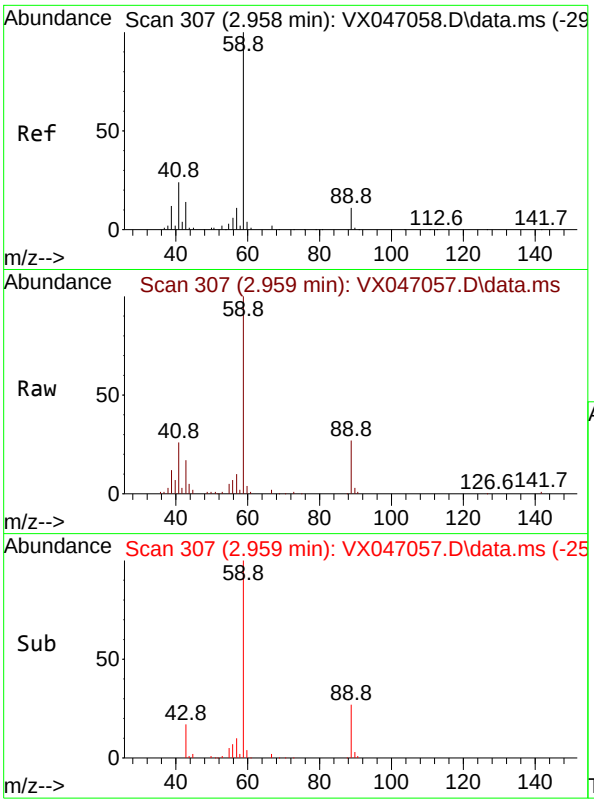


#10
Methyl Iodide
Concen: 17.073 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:142 Resp: 70850

Ion	Ratio	Lower	Upper
142	100		
127	44.3	36.6	54.8
141	13.6	10.9	16.3



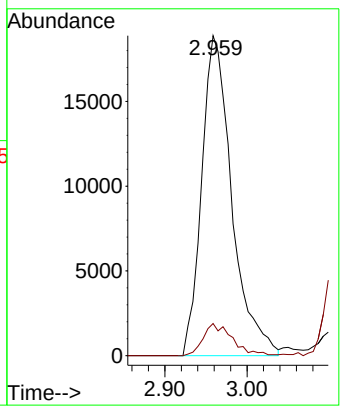


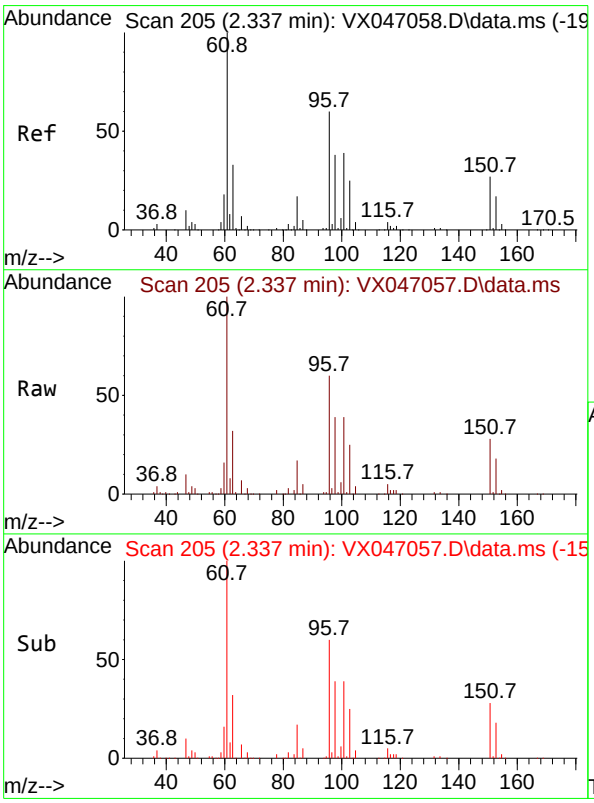
#11
Tert butyl alcohol
Concen: 96.502 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.001 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 48048

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.5	12.7

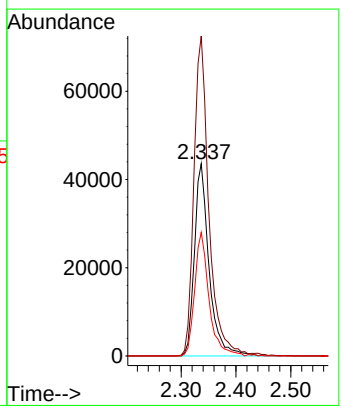


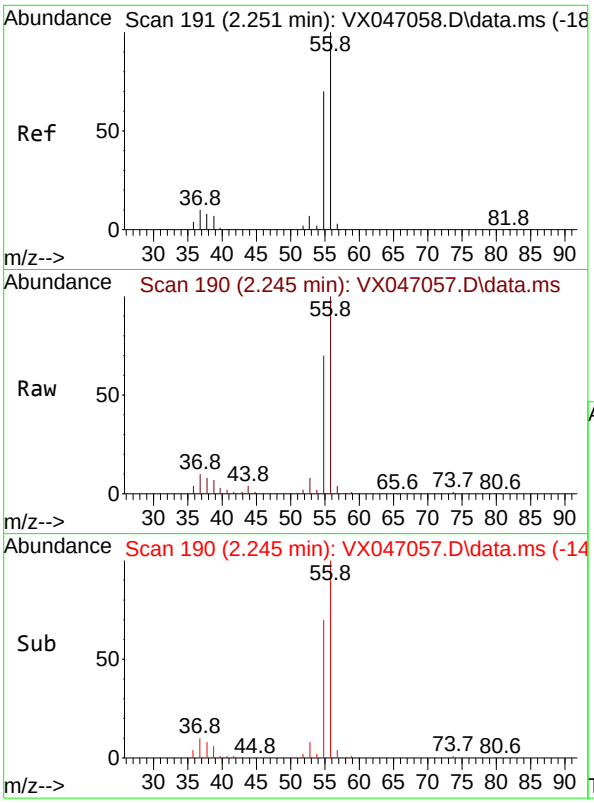


#12
1,1-Dichloroethene
Concen: 20.206 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 96 Resp: 81489

Ion	Ratio	Lower	Upper
96	100		
61	159.3	132.6	198.8
98	61.5	50.2	75.4



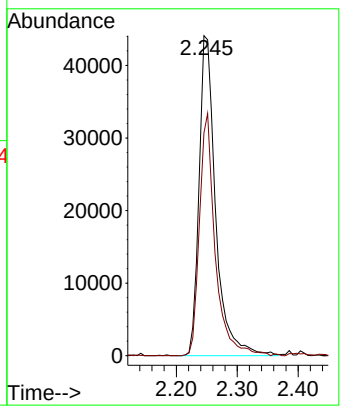


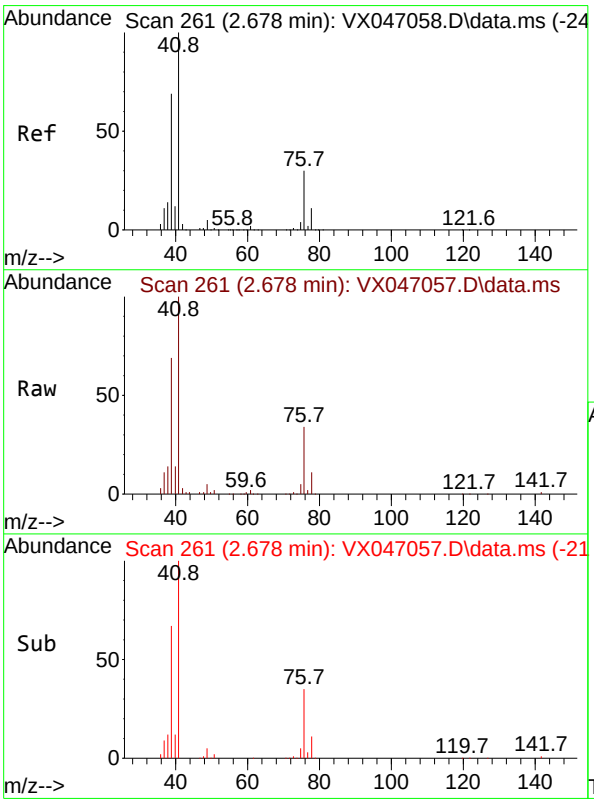
#13
Acrolein
Concen: 96.989 ug/l
RT: 2.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 83483

Ion	Ratio	Lower	Upper
56	100		
55	71.8	55.7	83.5

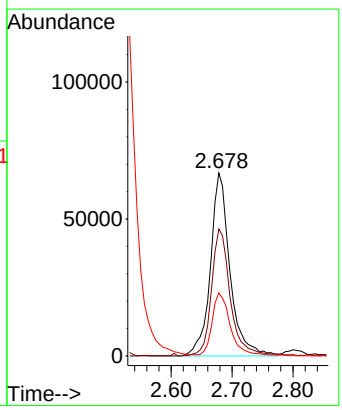


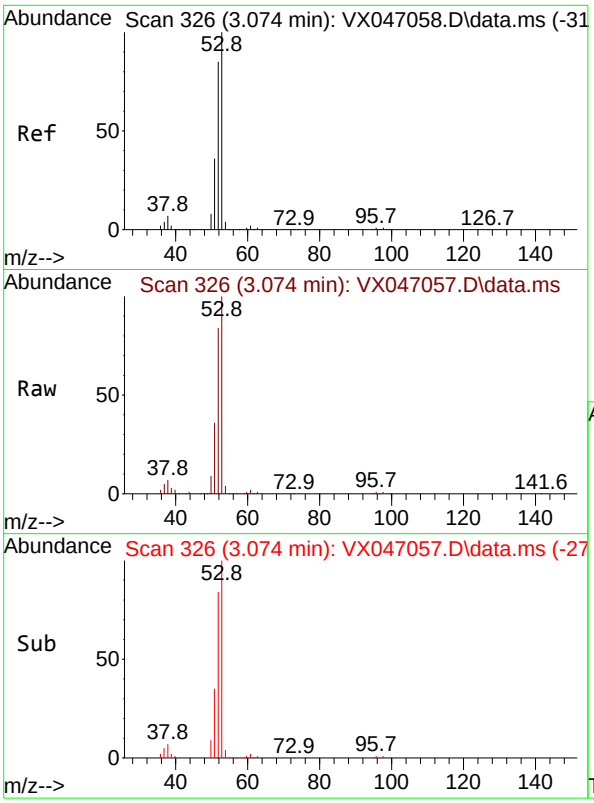


#14
Allyl chloride
Concen: 20.465 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 41 Resp: 149196

Ion	Ratio	Lower	Upper
41	100		
39	67.1	52.6	78.8
76	32.6	25.7	38.5



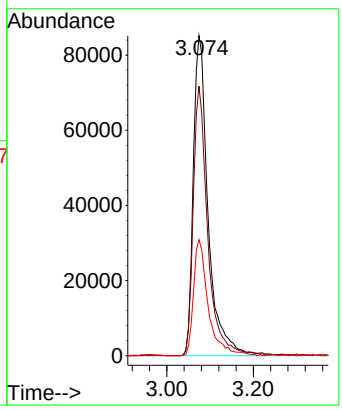


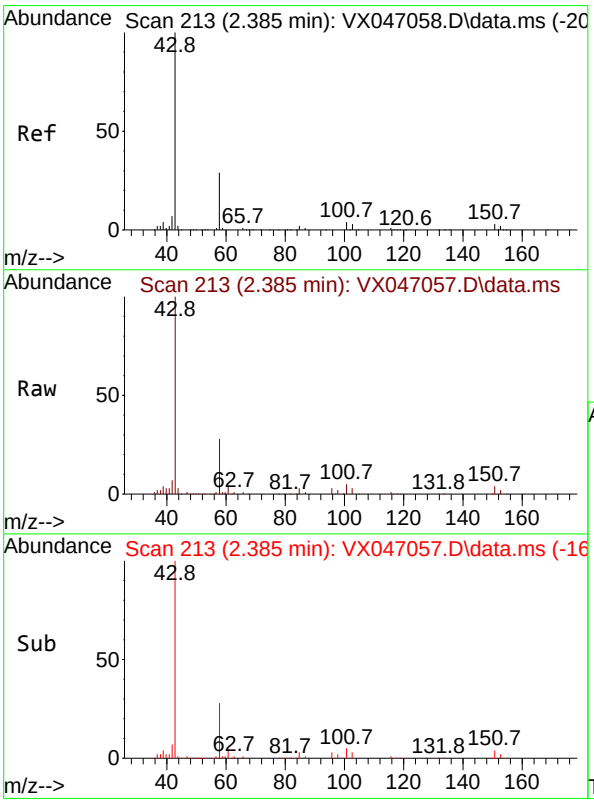
#15
Acrylonitrile
Concen: 106.603 ug/l
RT: 3.074 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 203243

Ion	Ratio	Lower	Upper
53	100		
52	81.8	65.7	98.5
51	35.9	28.8	43.2

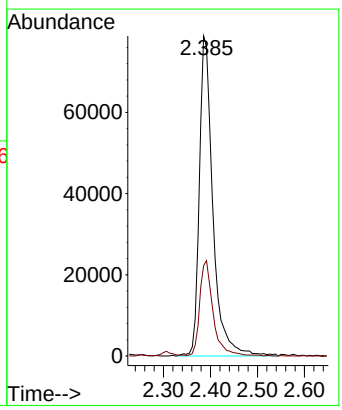


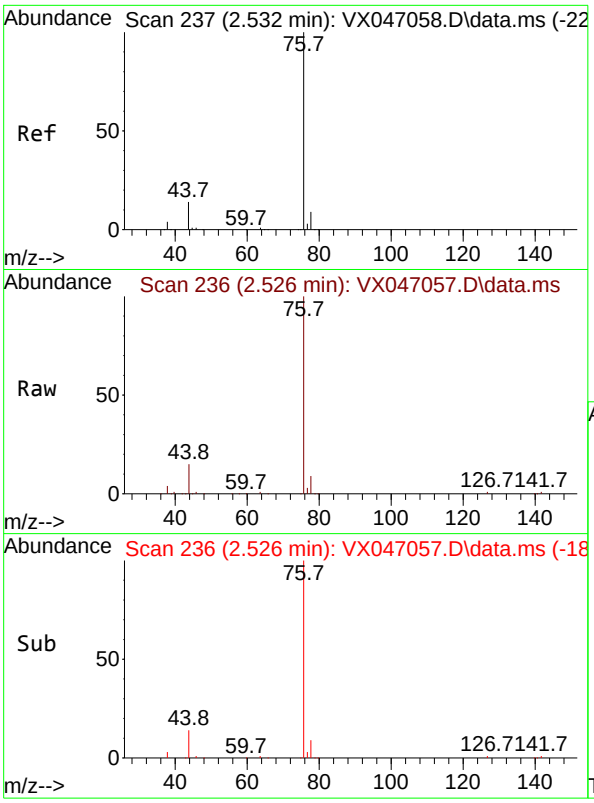


#16
Acetone
Concen: 98.619 ug/l
RT: 2.385 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 43 Resp: 157932

Ion	Ratio	Lower	Upper
43	100		
58	28.3	24.0	36.0



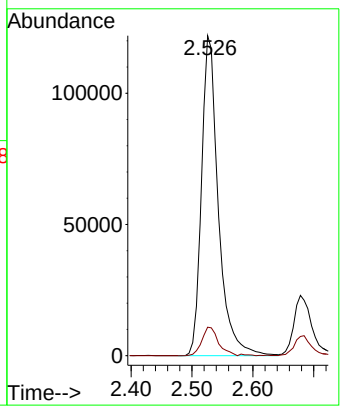


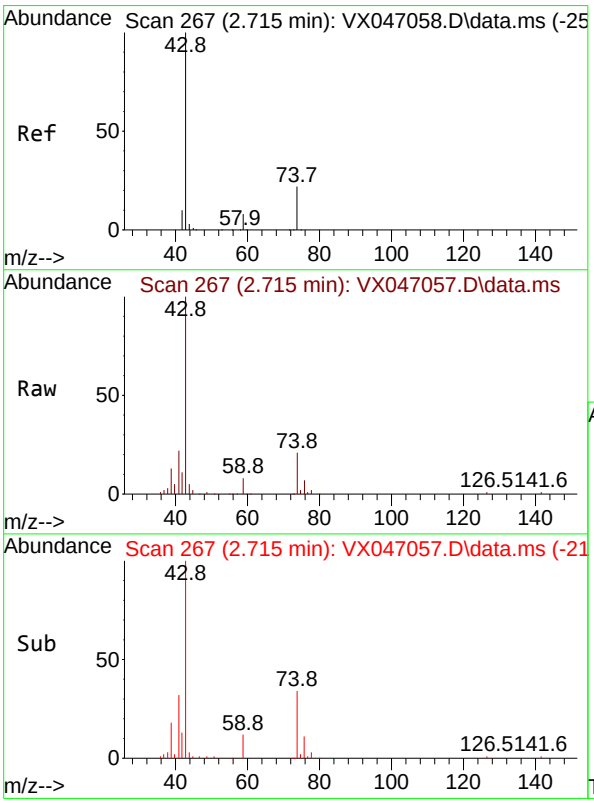
#17
Carbon Disulfide
Concen: 20.059 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 234036

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.4

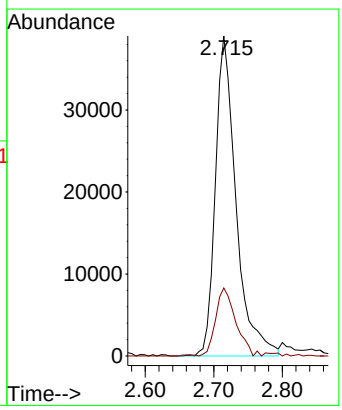


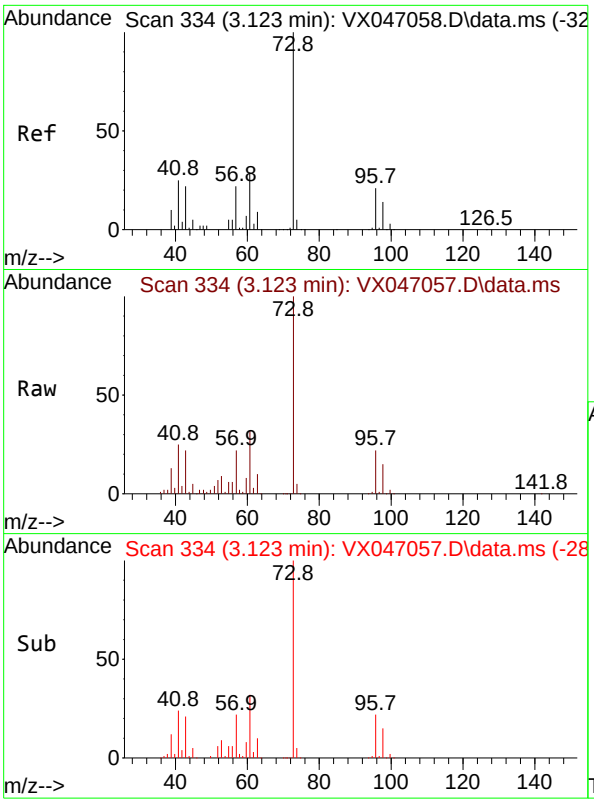


#18
Methyl Acetate
Concen: 19.180 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 43 Resp: 81624

Ion	Ratio	Lower	Upper
43	100		
74	20.8	17.7	26.5



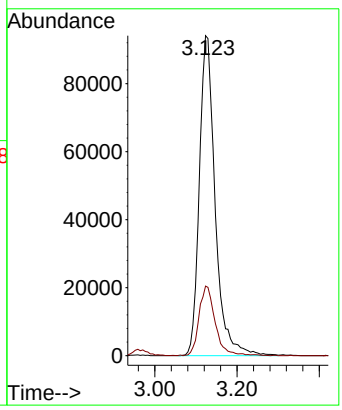


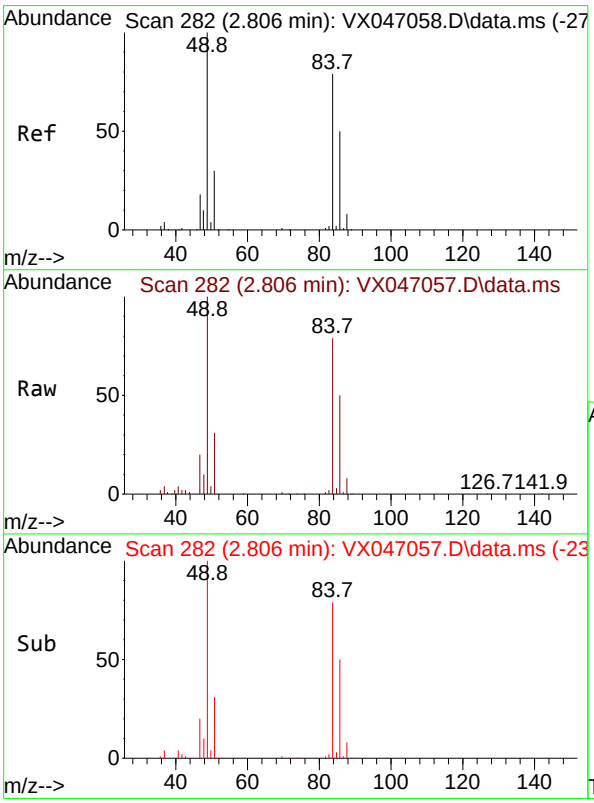
#19
Methyl tert-butyl Ether
Concen: 20.497 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 251581

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.7	26.5

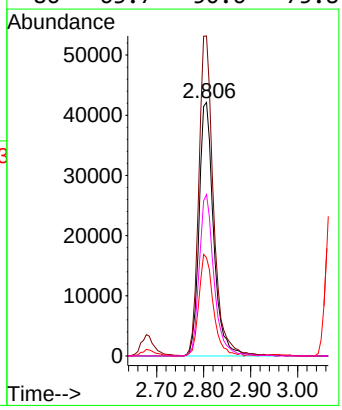


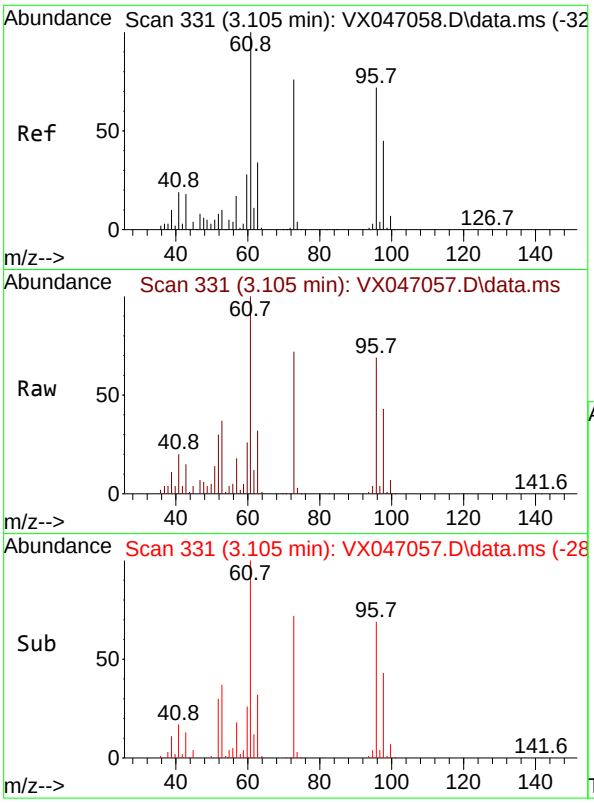


#20
Methylene Chloride
Concen: 20.621 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 84 Resp: 90849

Ion	Ratio	Lower	Upper
84	100		
49	126.0	101.6	152.4
51	38.7	30.3	45.5
86	63.7	50.6	75.8



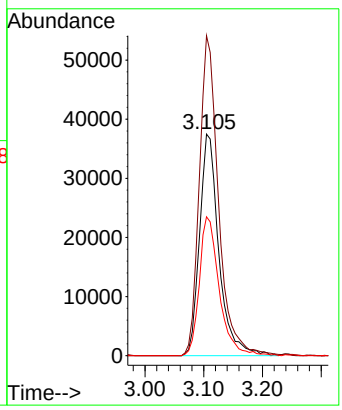


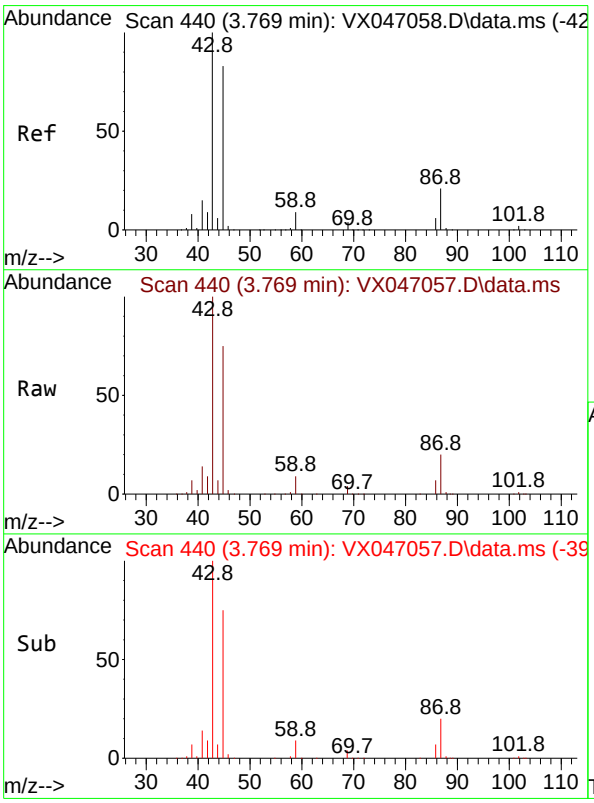
#21
trans-1,2-Dichloroethene
Concen: 20.738 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 85583

Ion	Ratio	Lower	Upper
96	100		
61	144.4	111.1	166.7
98	62.6	49.6	74.4

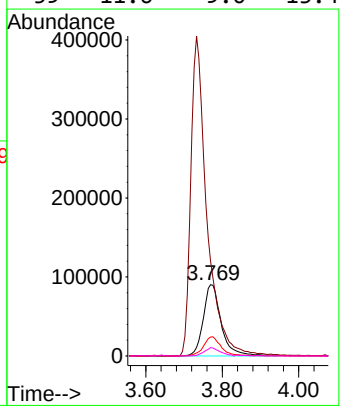


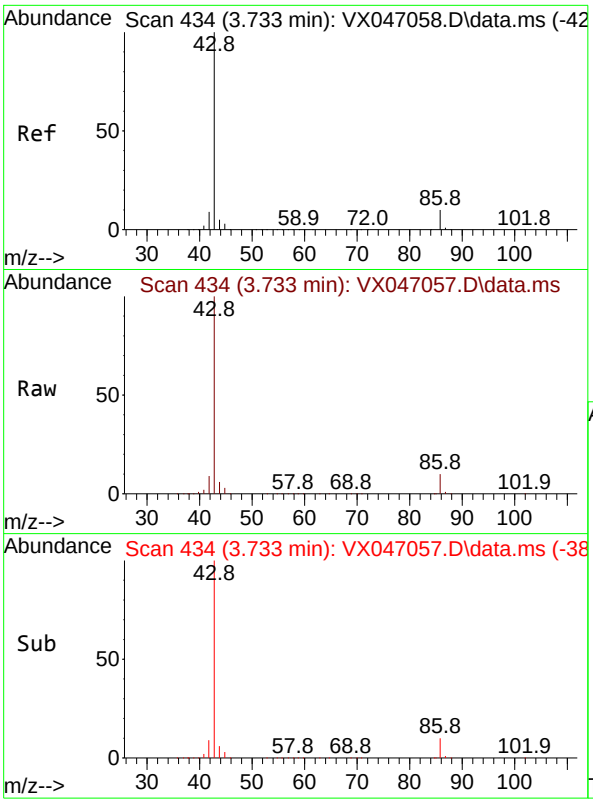


#22
Diisopropyl ether
Concen: 20.967 ug/l
RT: 3.769 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 45 Resp: 293875

Ion	Ratio	Lower	Upper
45	100		
43	133.7	96.8	145.2
87	26.6	20.5	30.7
59	11.6	9.0	13.4



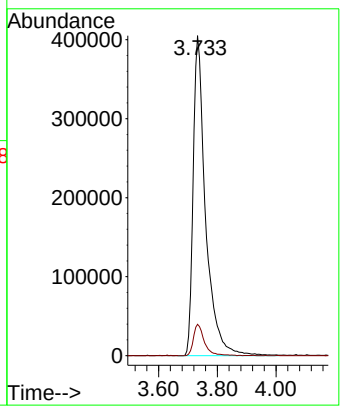


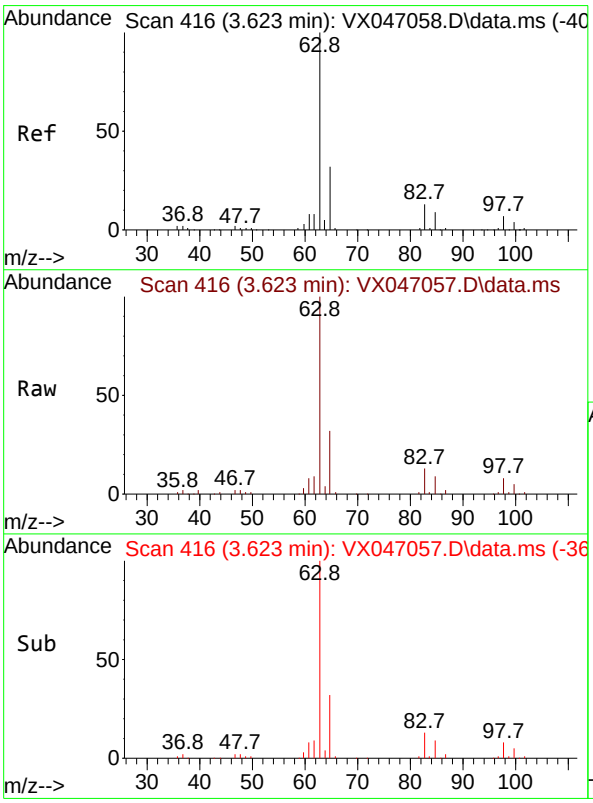
#23
Vinyl Acetate
Concen: 106.090 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 1192633

Ion	Ratio	Lower	Upper
43	100		
86	9.8	8.1	12.1

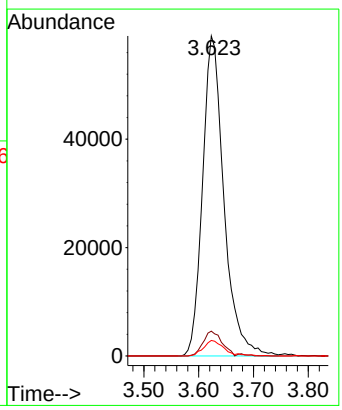


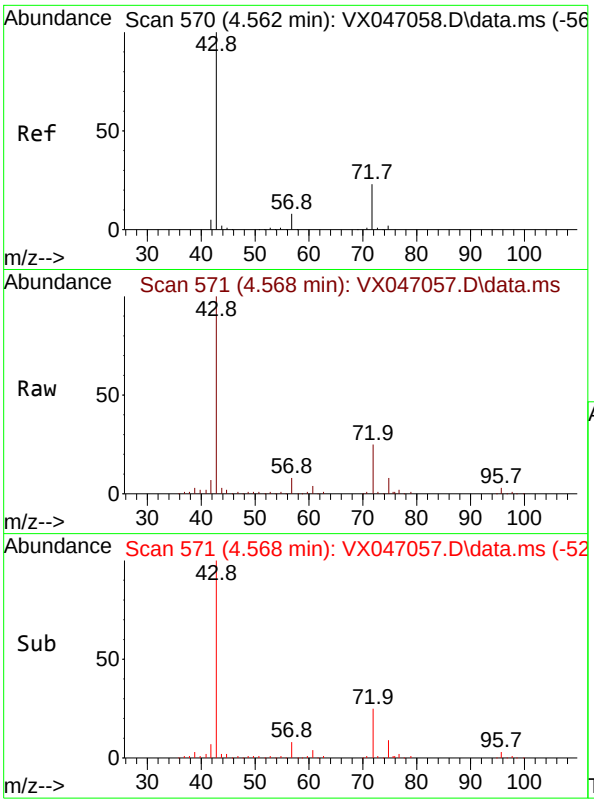


#24
1,1-Dichloroethane
Concen: 20.507 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 63 Resp: 159828

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.6	10.8
100	4.9	2.3	6.8



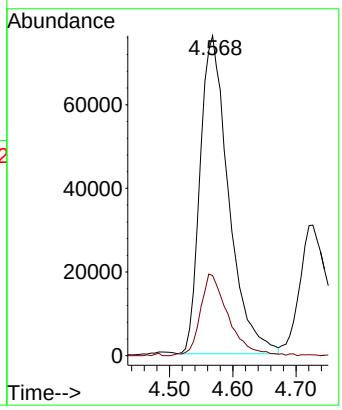


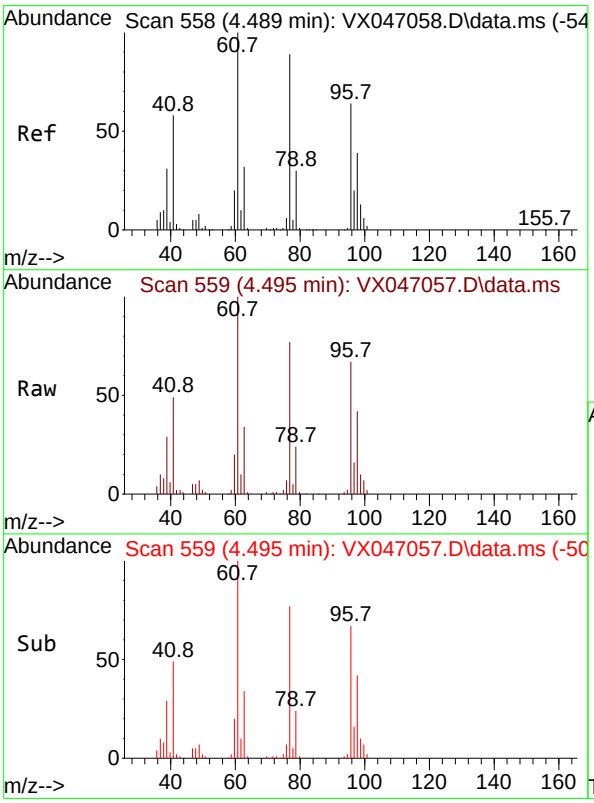
#25
2-Butanone
Concen: 102.172 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 238246

Ion	Ratio	Lower	Upper
43	100		
72	24.9	18.8	28.2

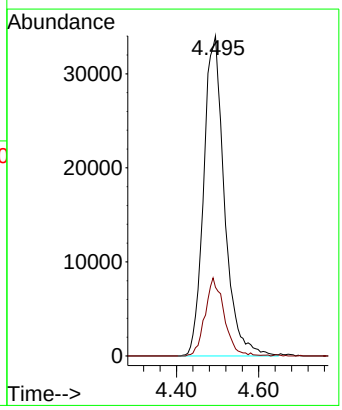


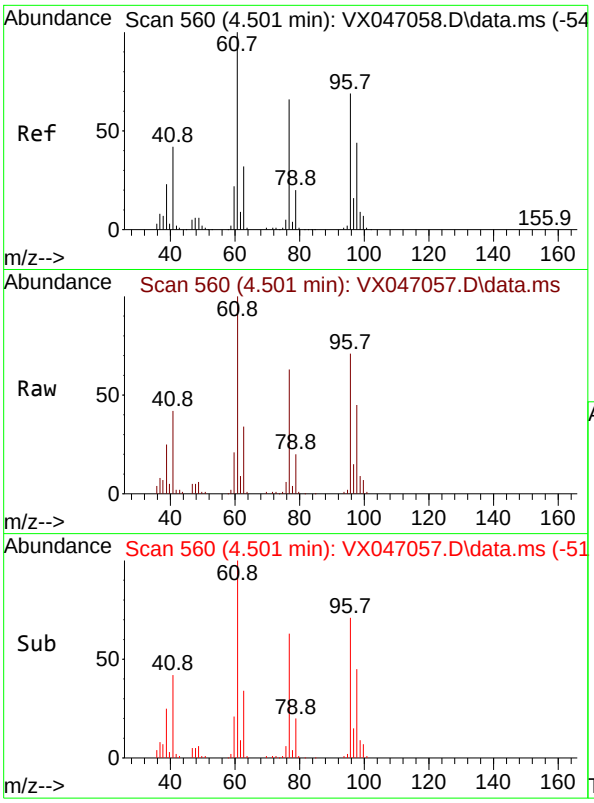


#26
2,2-Dichloropropane
Concen: 19.743 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 77 Resp: 119113

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.4	34.1



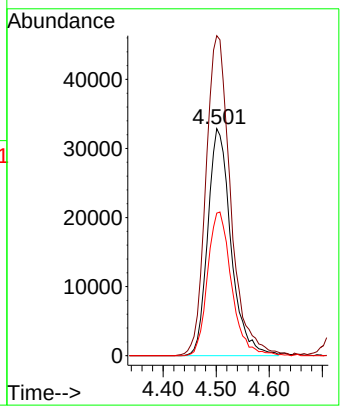


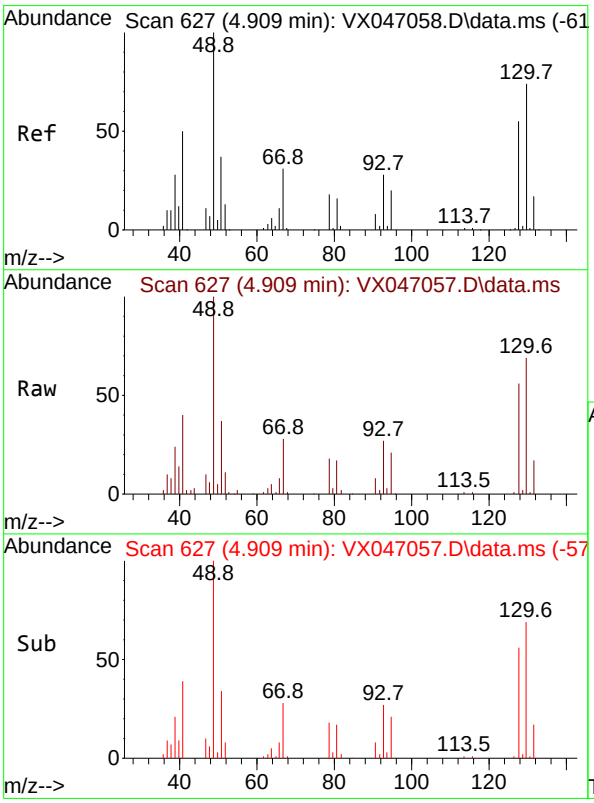
#27
cis-1,2-Dichloroethene
Concen: 20.420 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 99794

Ion	Ratio	Lower	Upper
96	100		
61	150.3	0.0	298.6
98	65.4	0.0	128.8

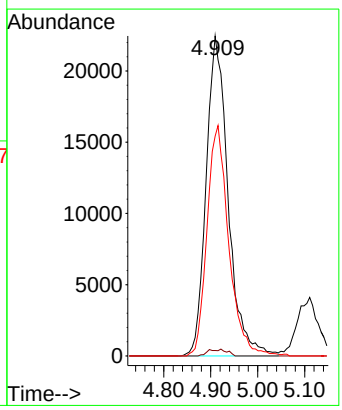


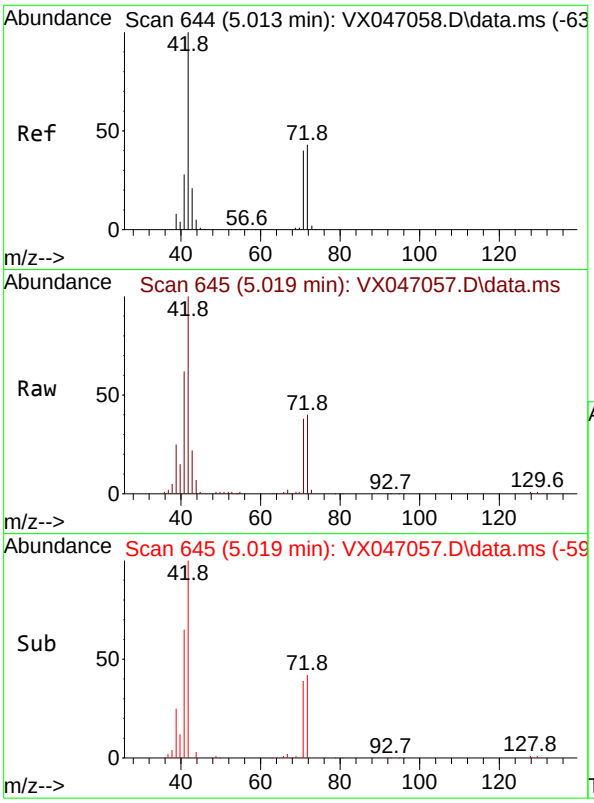


#28
Bromochloromethane
Concen: 20.334 ug/l
RT: 4.909 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 49 Resp: 72912

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.8
130	71.3	59.0	88.4



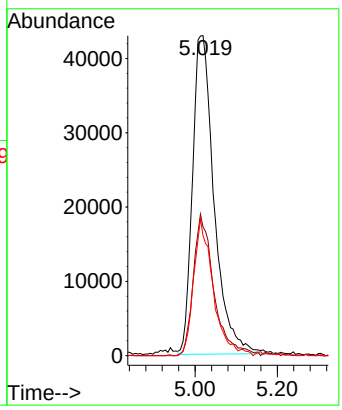


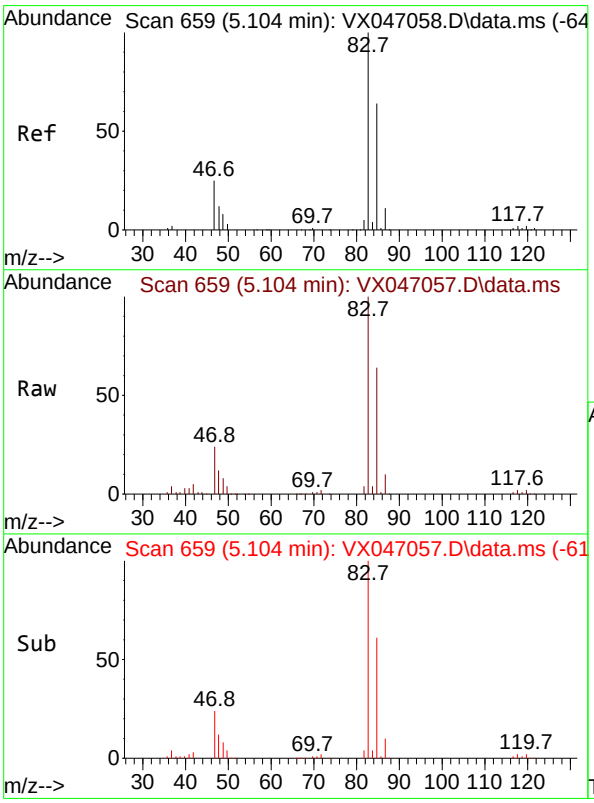
#29
Tetrahydrofuran
Concen: 104.232 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 156819

Ion	Ratio	Lower	Upper
42	100		
72	42.2	33.7	50.5
71	38.6	31.0	46.4

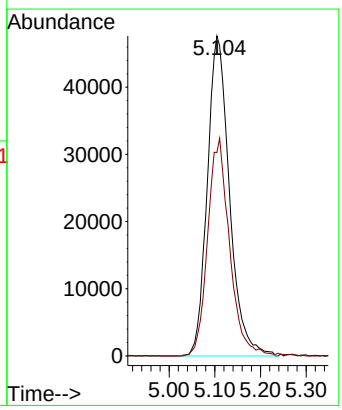


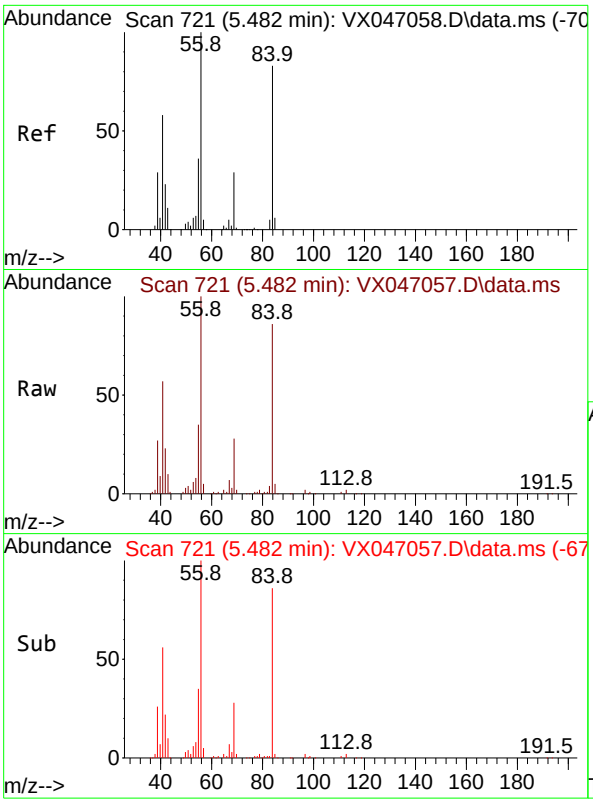


#30
Chloroform
Concen: 20.255 ug/l
RT: 5.104 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 83 Resp: 160698

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3



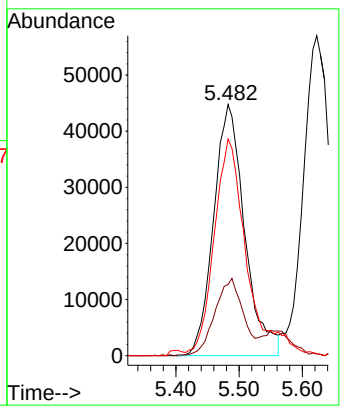


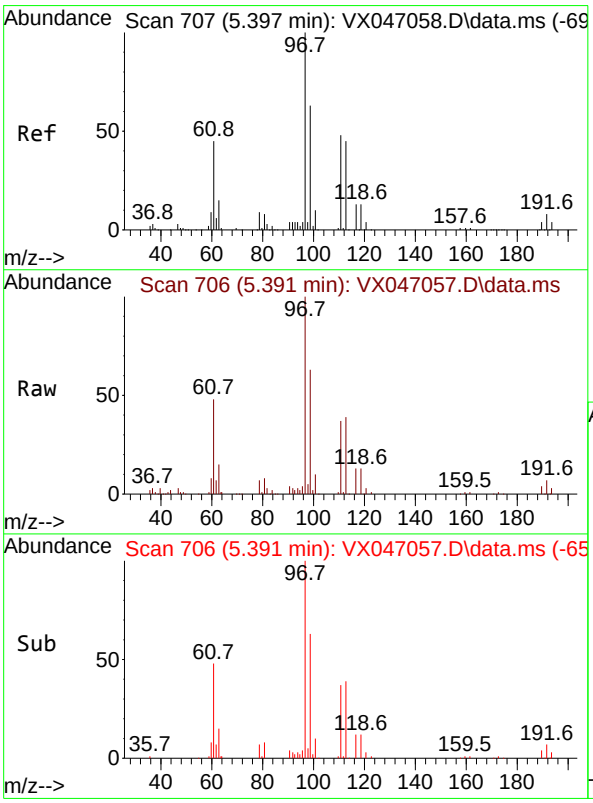
#31
Cyclohexane
Concen: 20.397 ug/l
RT: 5.482 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 152430

Ion	Ratio	Lower	Upper
56	100		
69	28.0	23.3	34.9
84	84.2	66.5	99.7

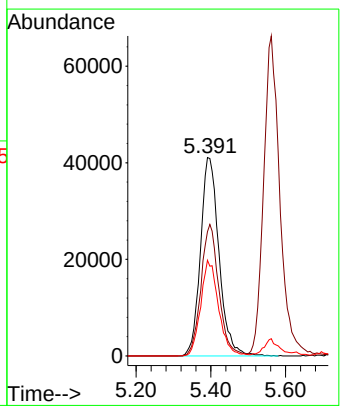


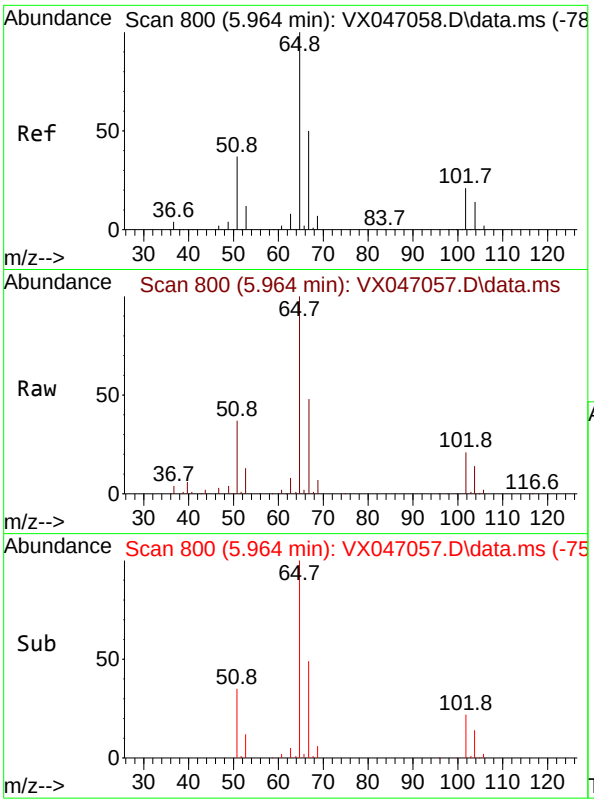


#32
1,1,1-Trichloroethane
Concen: 20.503 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 97 Resp: 141289

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.2	76.8
61	46.7	37.1	55.7



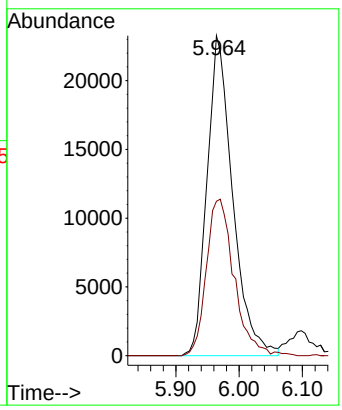


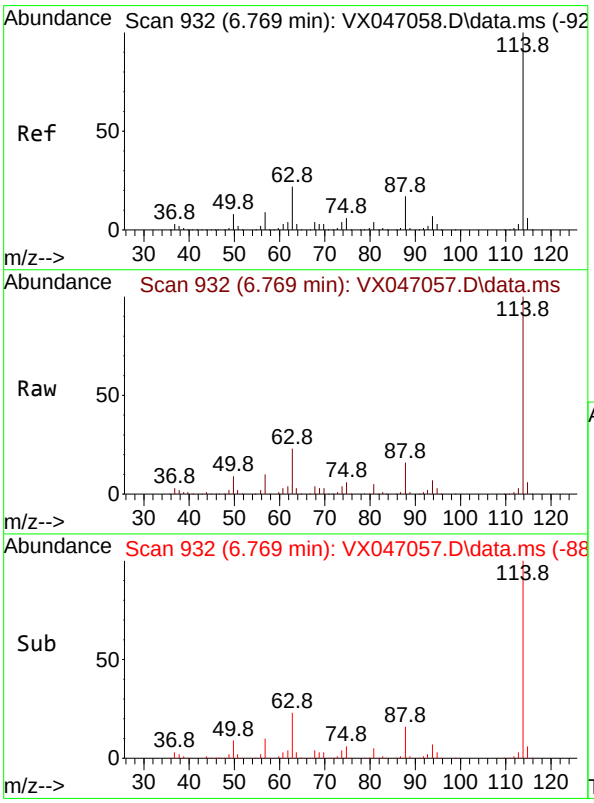
#33
1,2-Dichloroethane-d4
Concen: 16.395 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 65541

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	104.8

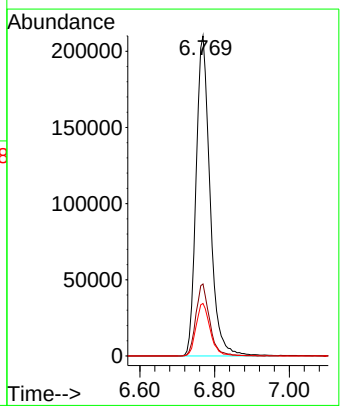


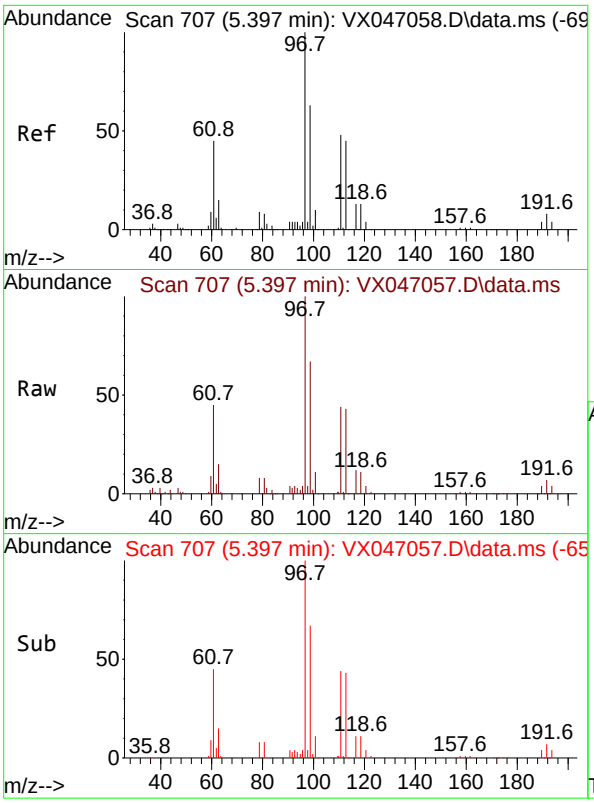


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:114 Resp: 544303

Ion	Ratio	Lower	Upper
114	100		
63	25.5	0.0	43.2
88	16.4	0.0	33.8



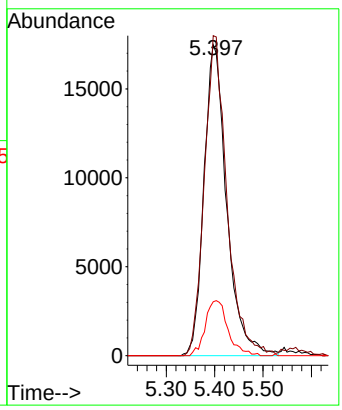


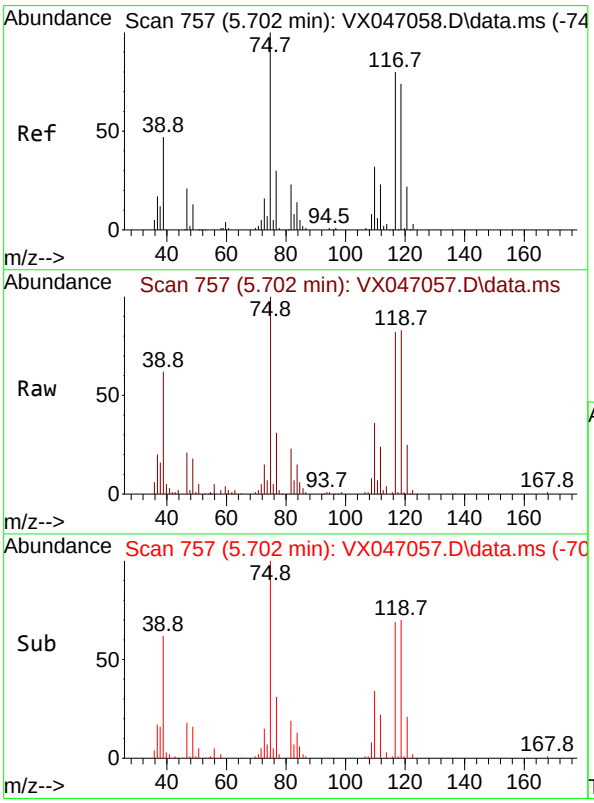
#35
Dibromofluoromethane
Concen: 16.992 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 57105

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.6	124.0
192	17.6	14.9	22.3

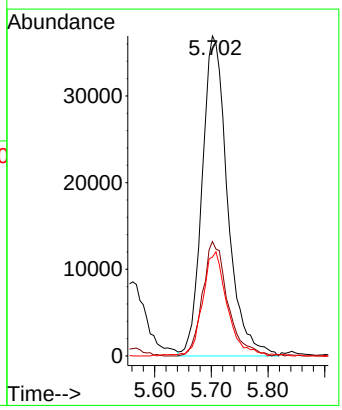


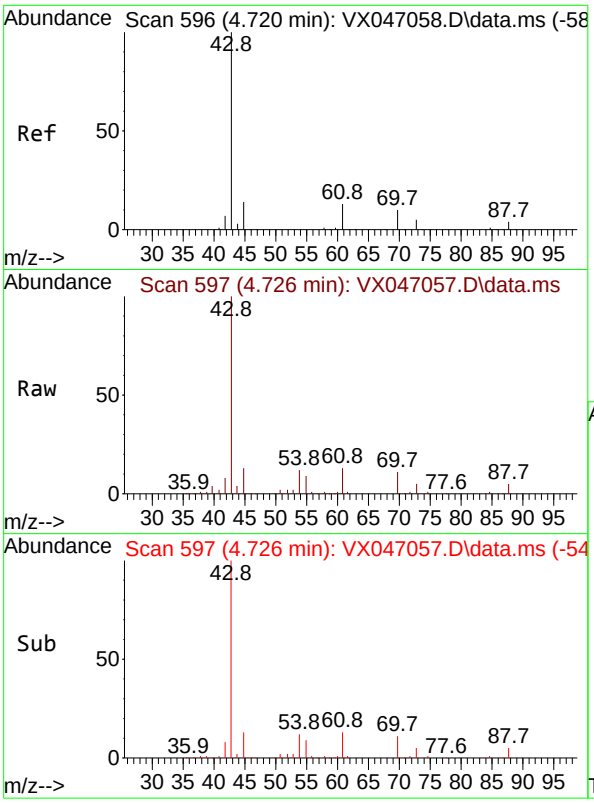


#36
1,1-Dichloropropene
Concen: 20.062 ug/l
RT: 5.702 min Scan# 757
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 75 Resp: 114925

Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.2	51.5
77	31.4	25.1	37.7



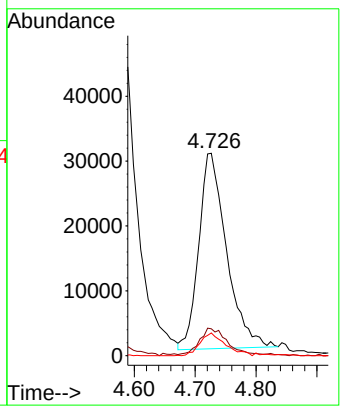


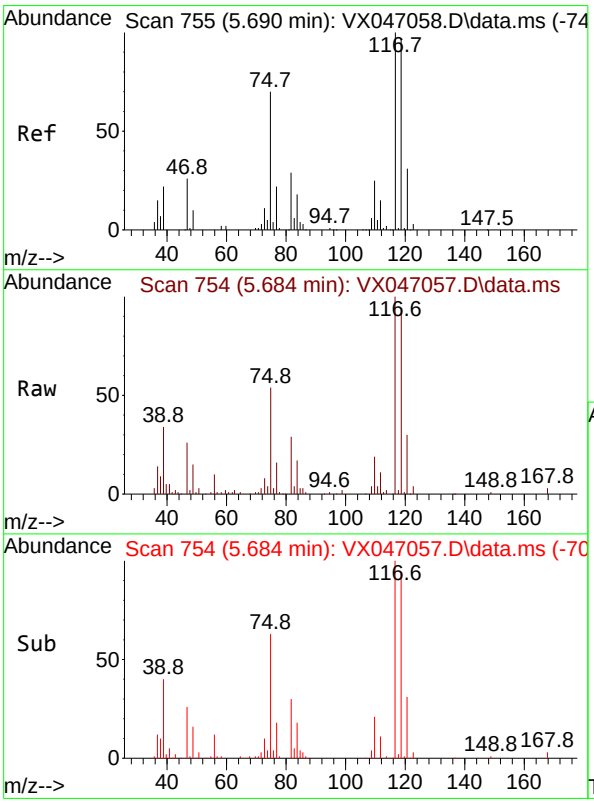
#37
Ethyl Acetate
Concen: 18.907 ug/l
RT: 4.726 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 95455

Ion	Ratio	Lower	Upper
43	100		
61	13.1	10.2	15.2
70	10.6	8.1	12.1

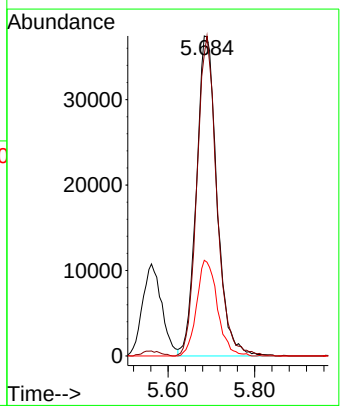


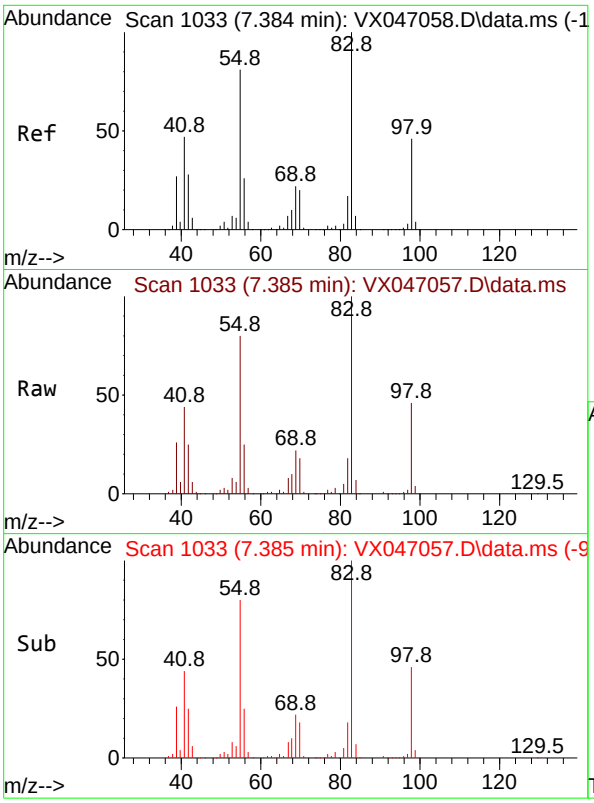


#38
Carbon Tetrachloride
Concen: 20.150 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:117 Resp: 123204

Ion	Ratio	Lower	Upper
117	100		
119	94.2	76.6	115.0
121	29.9	24.4	36.6



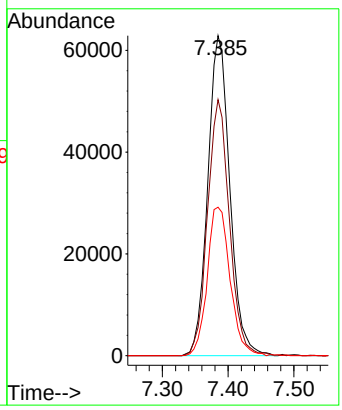


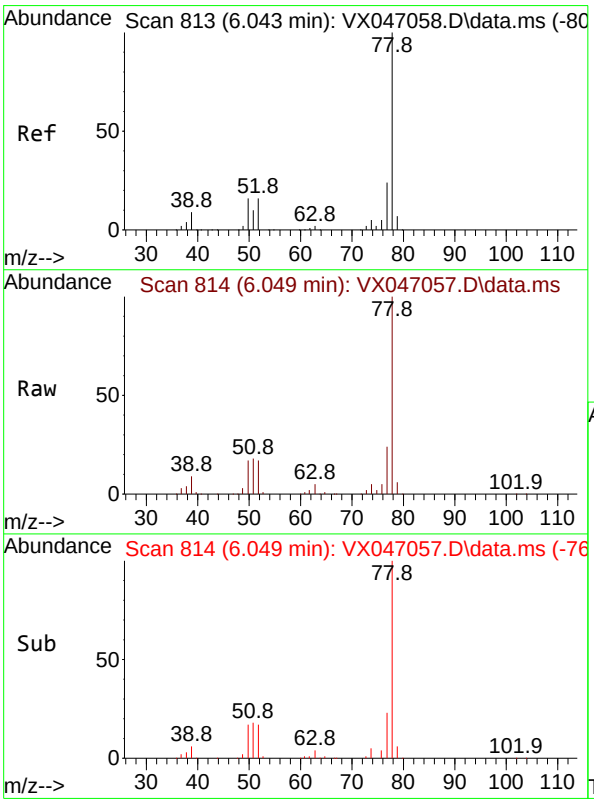
#39
Methylcyclohexane
Concen: 20.519 ug/l
RT: 7.385 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 146762

Ion	Ratio	Lower	Upper
83	100		
55	80.0	64.5	96.7
98	46.4	36.9	55.3

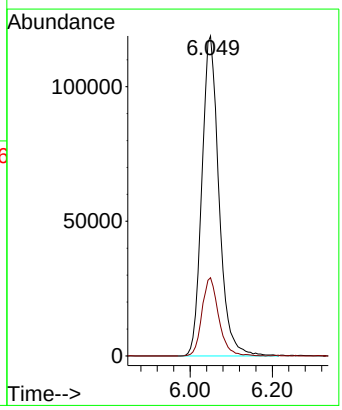


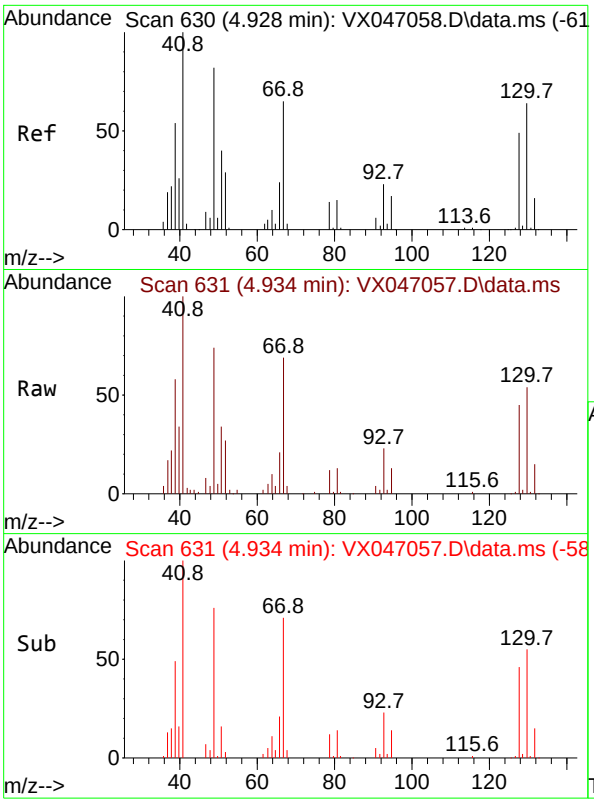


#40
Benzene
Concen: 20.656 ug/l
RT: 6.049 min Scan# 814
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 78 Resp: 342454

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.4



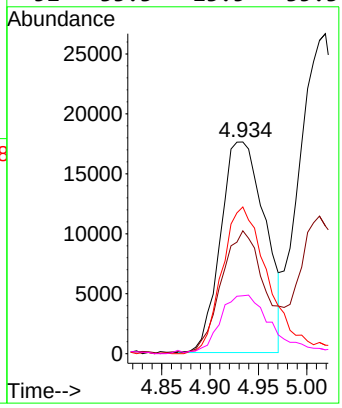


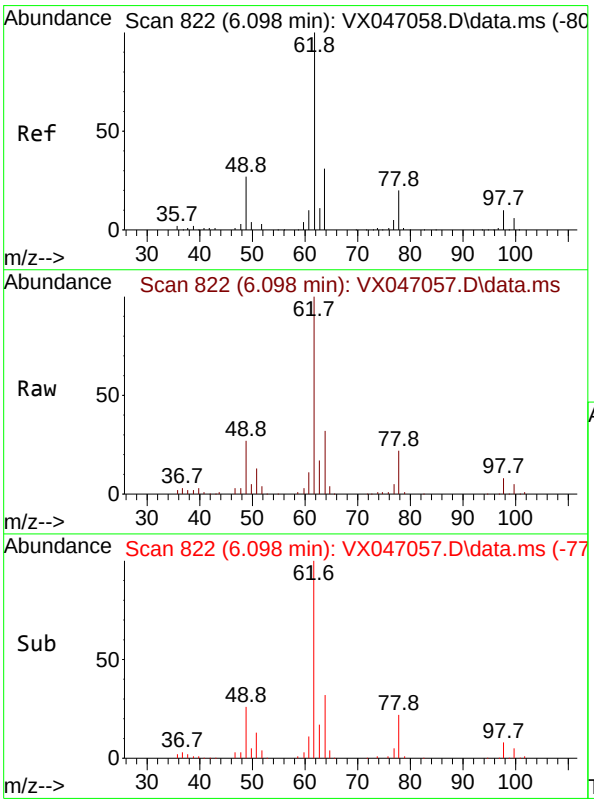
#41
Methacrylonitrile
Concen: 20.350 ug/l
RT: 4.934 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 56166

Ion	Ratio	Lower	Upper
41	100		
39	58.8	44.2	66.2
67	74.5	56.4	84.6
52	33.3	23.5	35.3

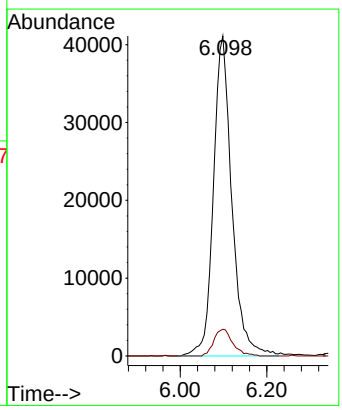


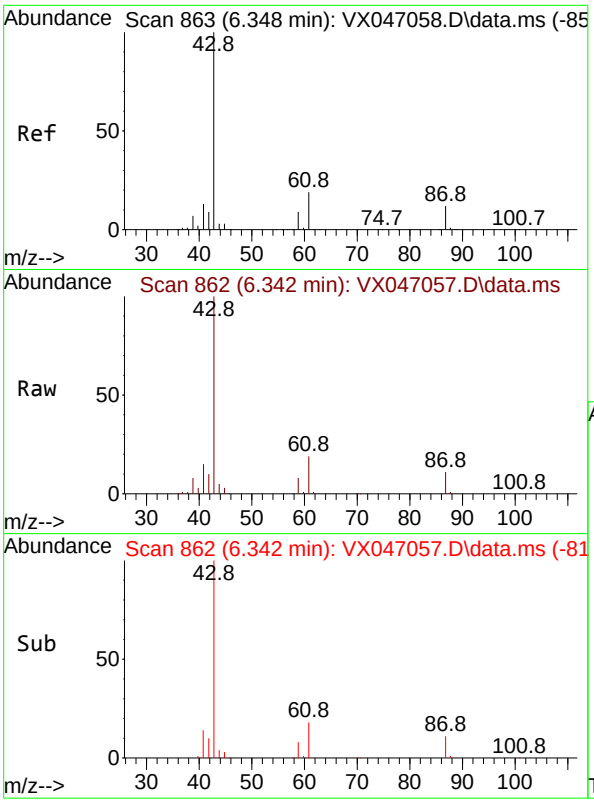


#42
1,2-Dichloroethane
Concen: 20.808 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 62 Resp: 121515

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	18.8



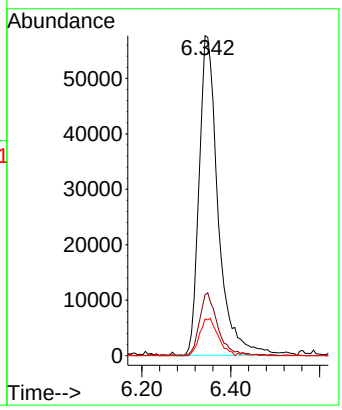


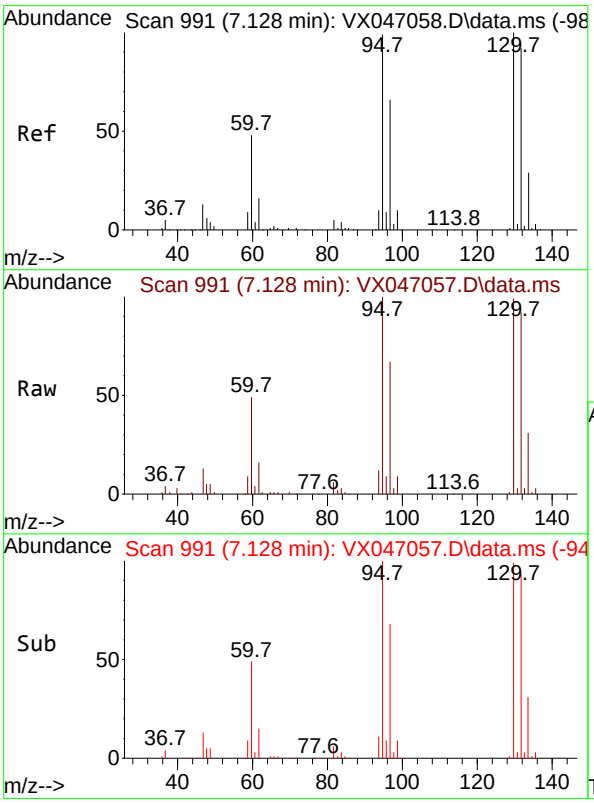
#43
Isopropyl Acetate
Concen: 20.802 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 171186

Ion	Ratio	Lower	Upper
43	100		
61	18.8	15.1	22.7
87	11.2	9.7	14.5

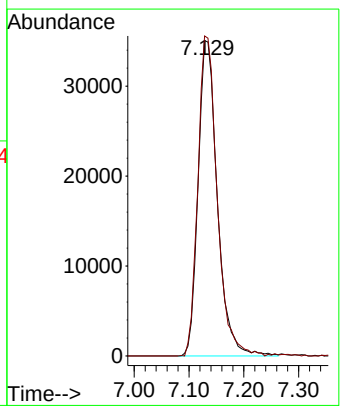


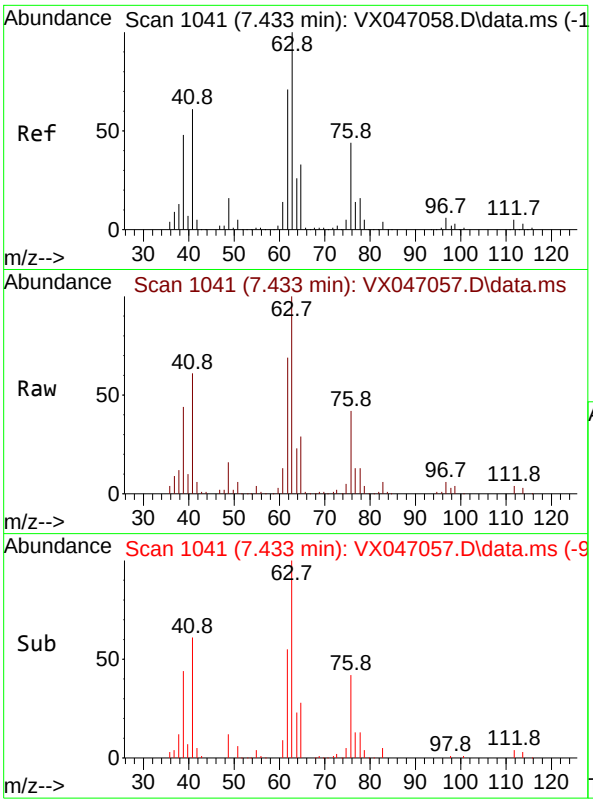


#44
Trichloroethene
Concen: 20.099 ug/l
RT: 7.128 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:130 Resp: 85446

Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	198.6



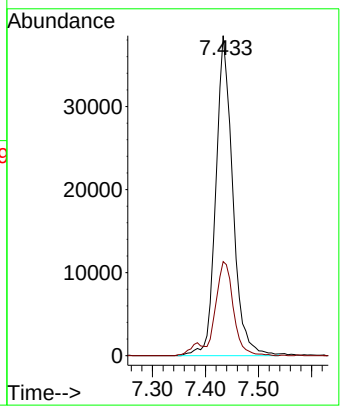


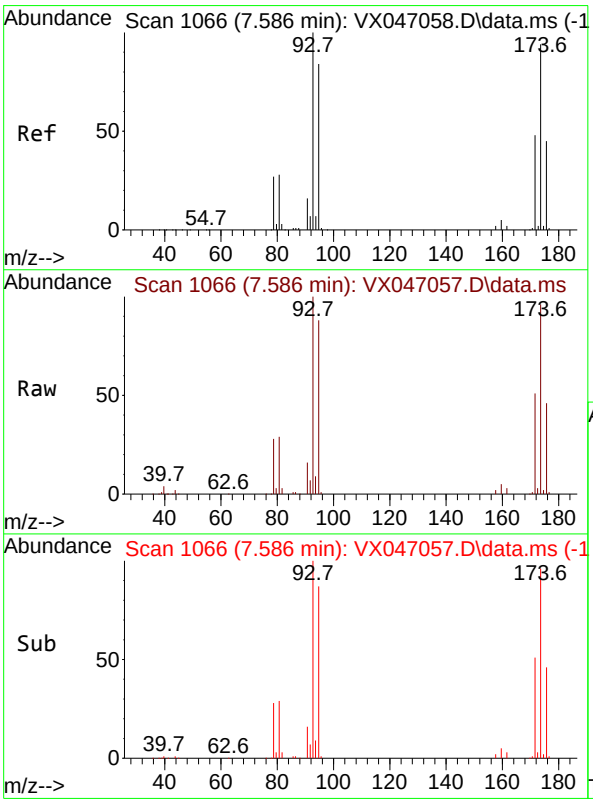
#45
1,2-Dichloropropane
Concen: 20.603 ug/l
RT: 7.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 85547

Ion	Ratio	Lower	Upper
63	100		
65	29.4	26.3	39.5

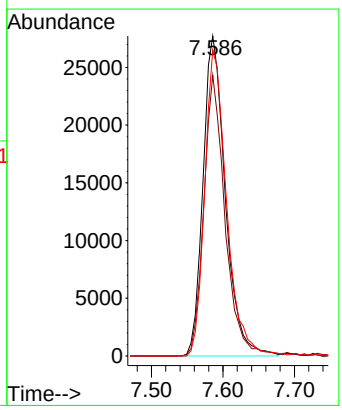


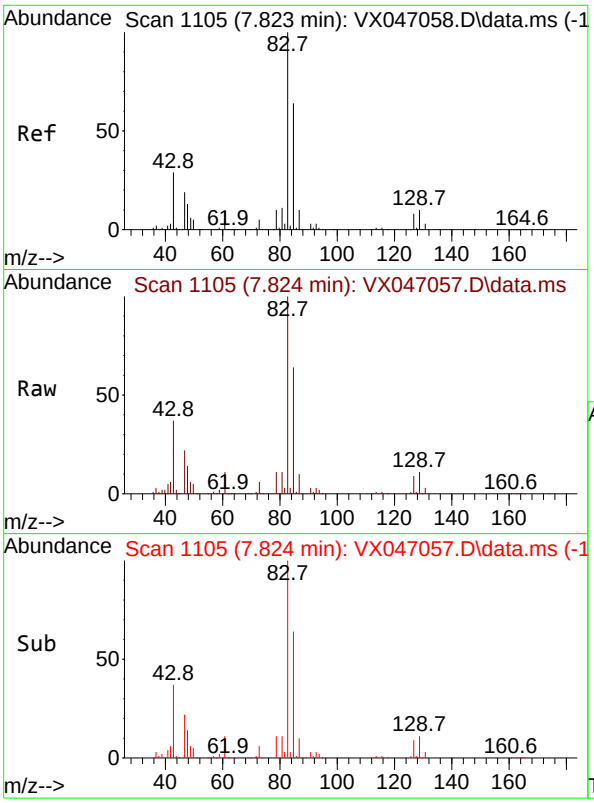


#46
Dibromomethane
Concen: 20.588 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 93 Resp: 59949

Ion	Ratio	Lower	Upper
93	100		
95	83.4	65.9	98.9
174	94.2	74.6	112.0



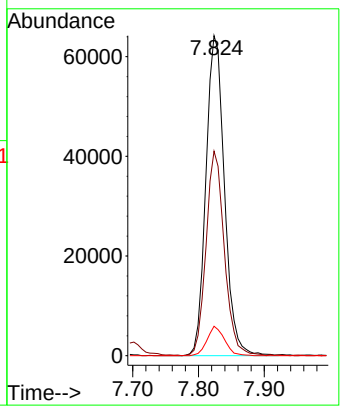


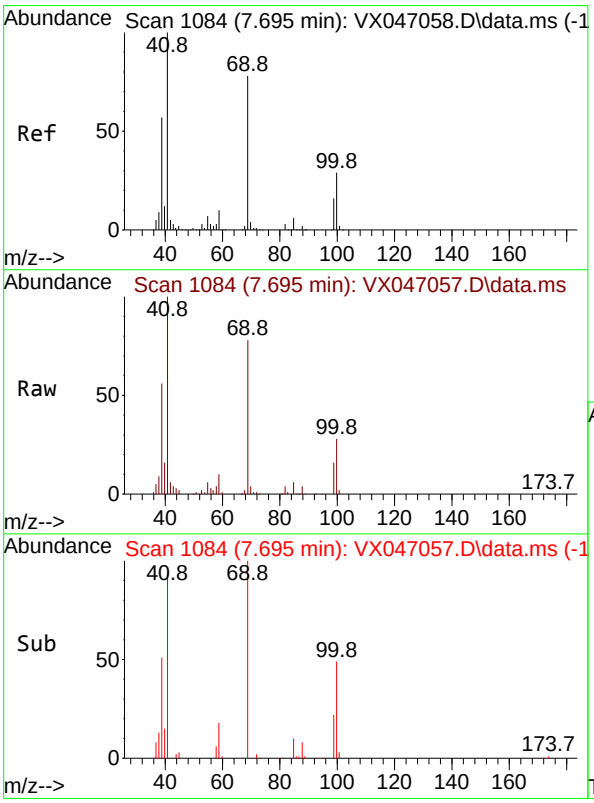
#47
Bromodichloromethane
Concen: 20.345 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 126091

Ion	Ratio	Lower	Upper
83	100		
85	62.1	49.9	74.9
127	9.0	6.6	10.0

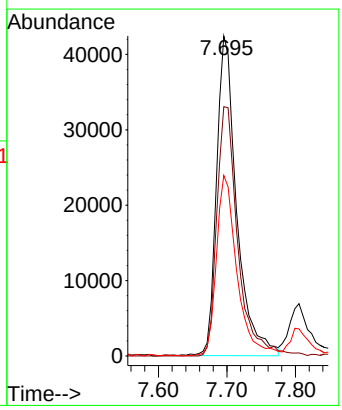


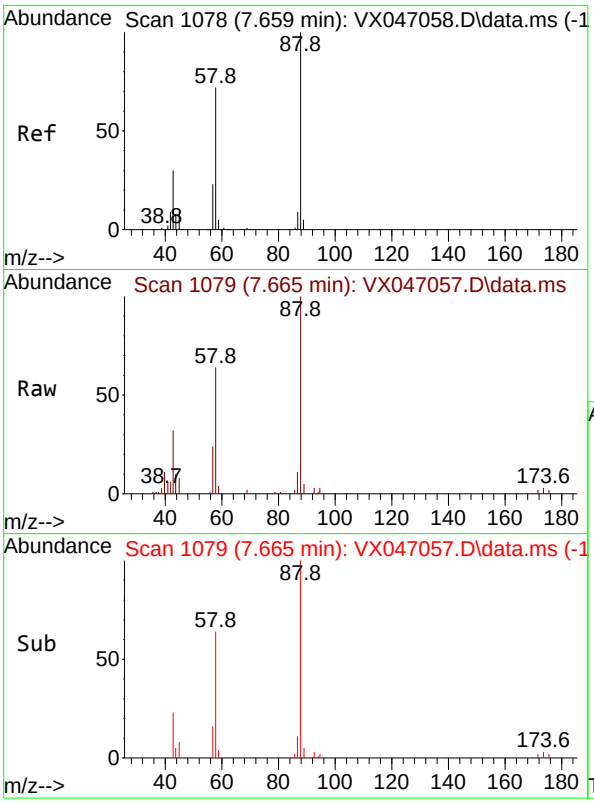


#48
Methyl methacrylate
Concen: 19.269 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 41 Resp: 86386

Ion	Ratio	Lower	Upper
41	100		
69	81.4	62.3	93.5
39	57.8	44.8	67.2



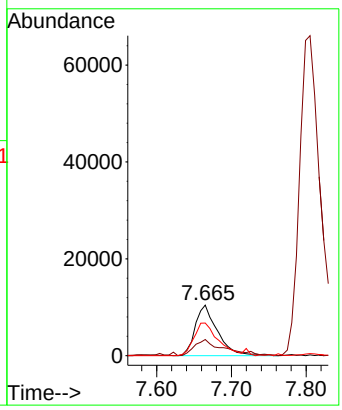


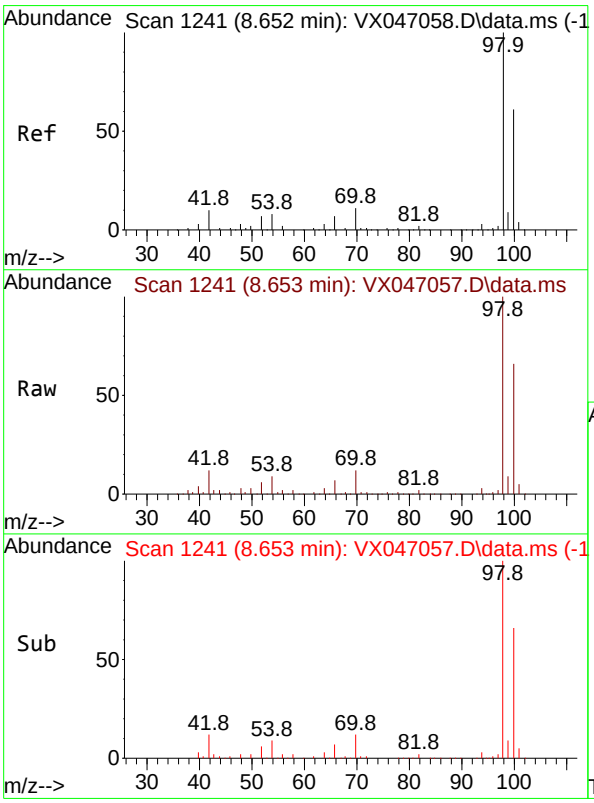
#49
1,4-Dioxane
Concen: 422.133 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 21524

Ion	Ratio	Lower	Upper
88	100		
43	42.4	33.6	50.4
58	69.9	58.8	88.2

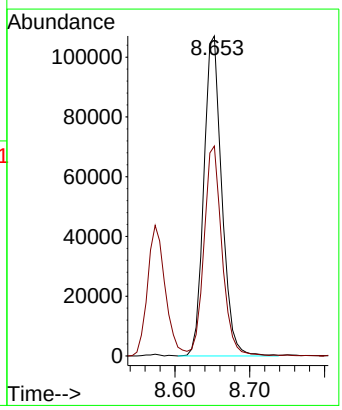


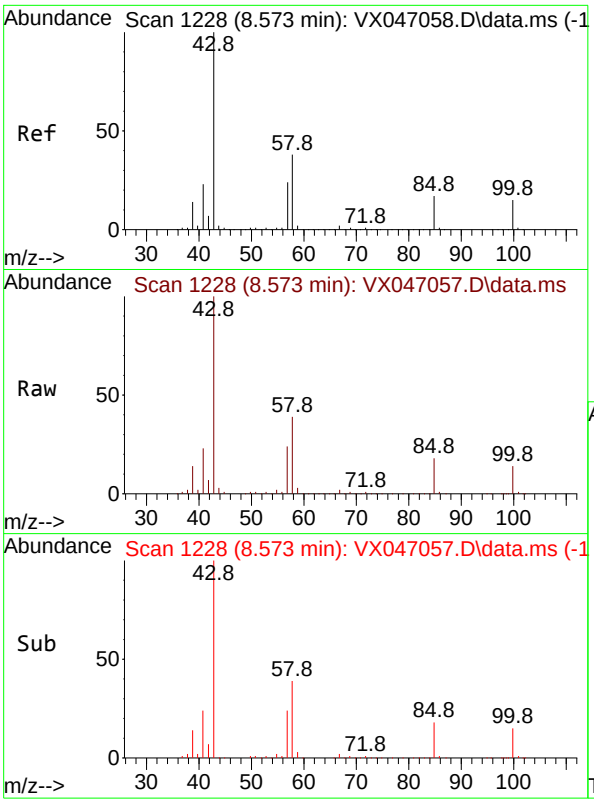


#50
Toluene-d8
Concen: 16.431 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 98 Resp: 178825

Ion	Ratio	Lower	Upper
98	100		
100	65.1	53.3	79.9



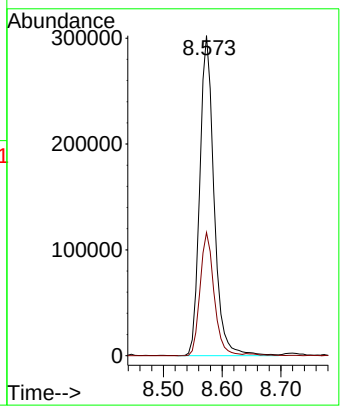


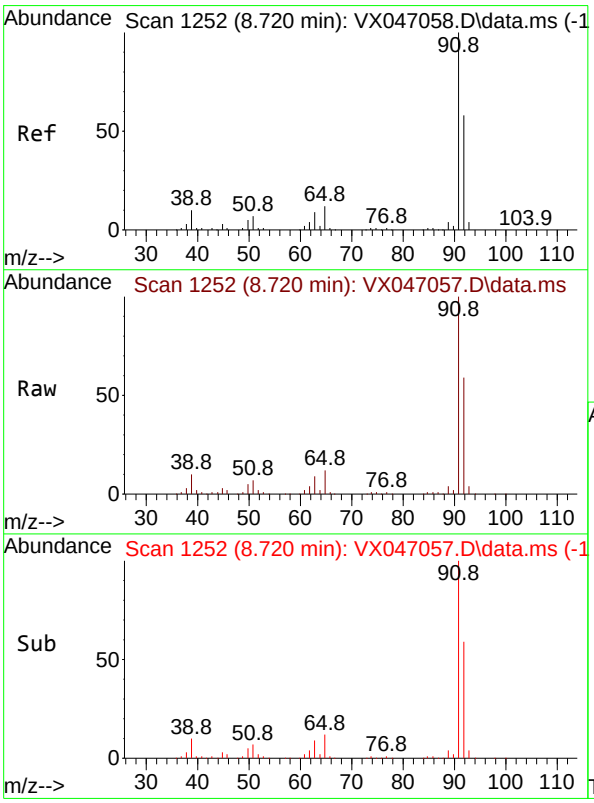
#51
4-Methyl-2-Pentanone
Concen: 104.532 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 511307

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.6	45.8

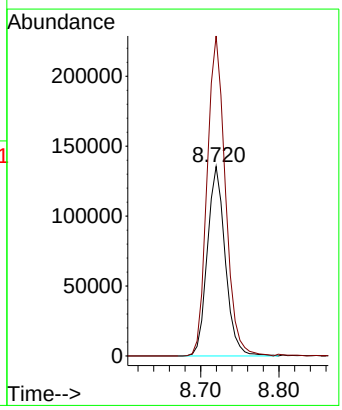


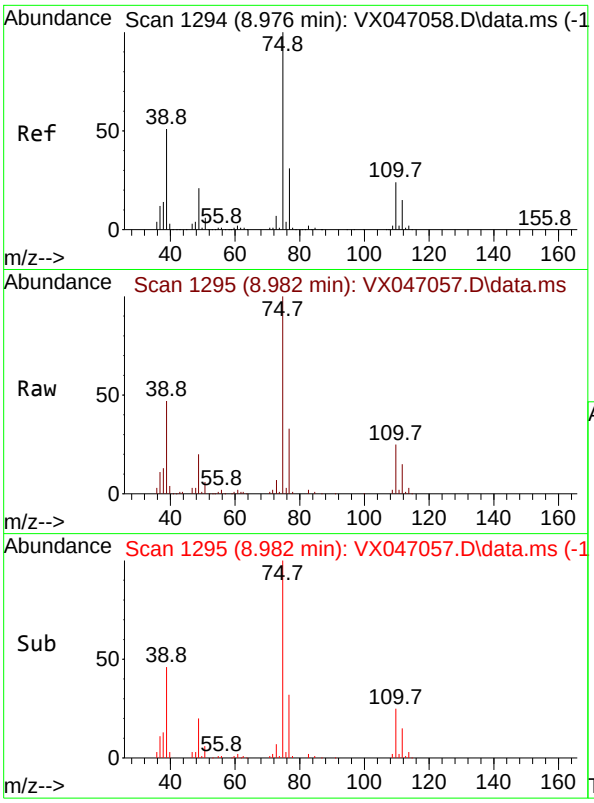


#52
Toluene
Concen: 21.087 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 92 Resp: 214955

Ion	Ratio	Lower	Upper
92	100		
91	172.1	137.9	206.9



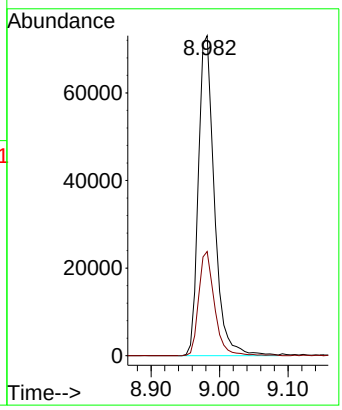


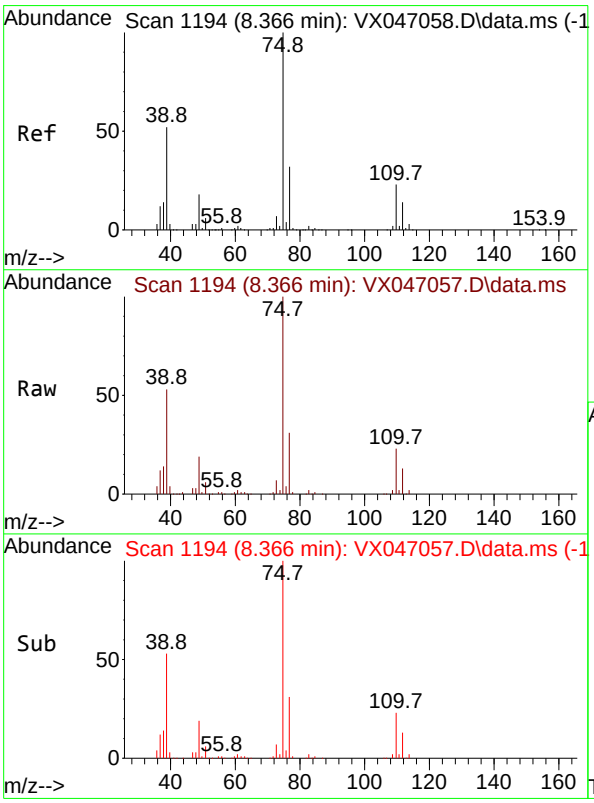
#53
t-1,3-Dichloropropene
Concen: 20.311 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 118872

Ion	Ratio	Lower	Upper
75	100		
77	32.6	24.5	36.7

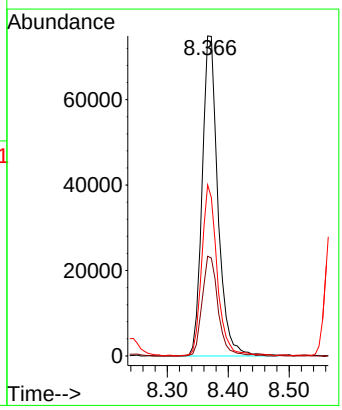


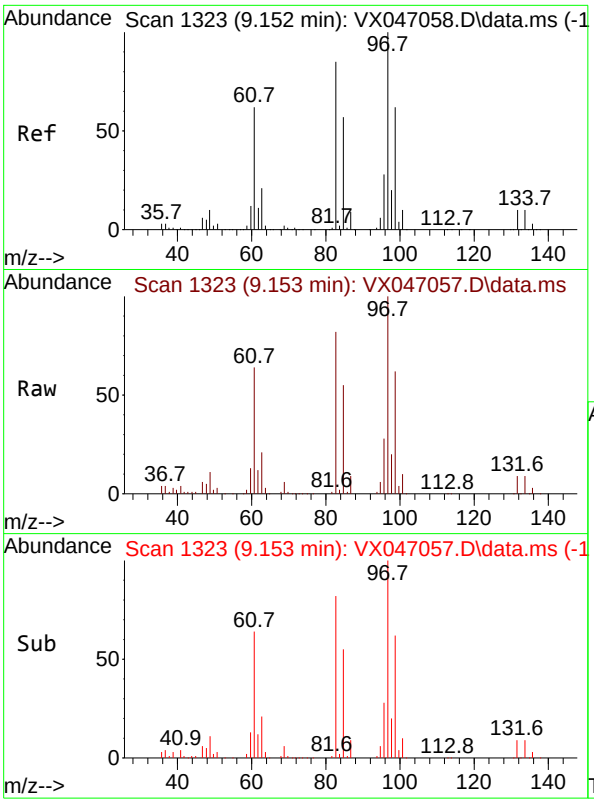


#54
cis-1,3-Dichloropropene
Concen: 21.011 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 75 Resp: 134587

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.0
39	53.5	41.8	62.6



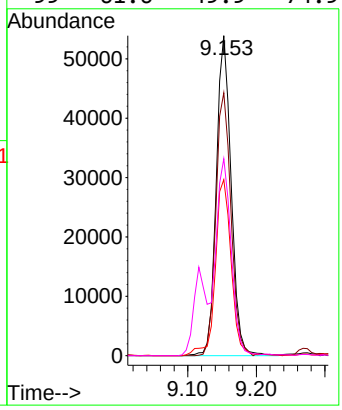


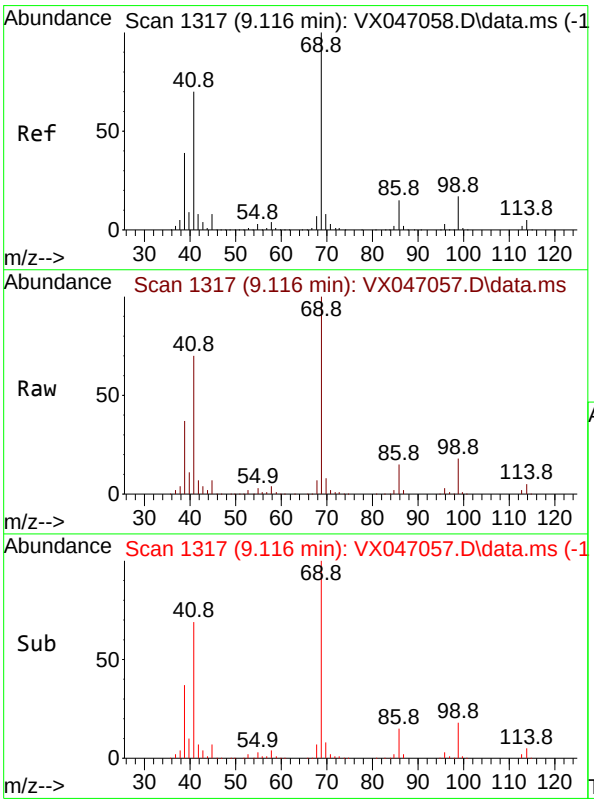
#55
1,1,2-Trichloroethane
Concen: 21.224 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 81137

Ion	Ratio	Lower	Upper
97	100		
83	82.2	68.0	102.0
85	55.0	45.2	67.8
99	61.6	49.9	74.9

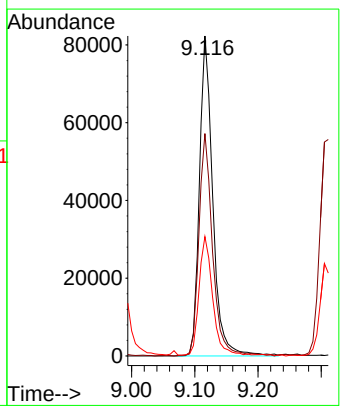


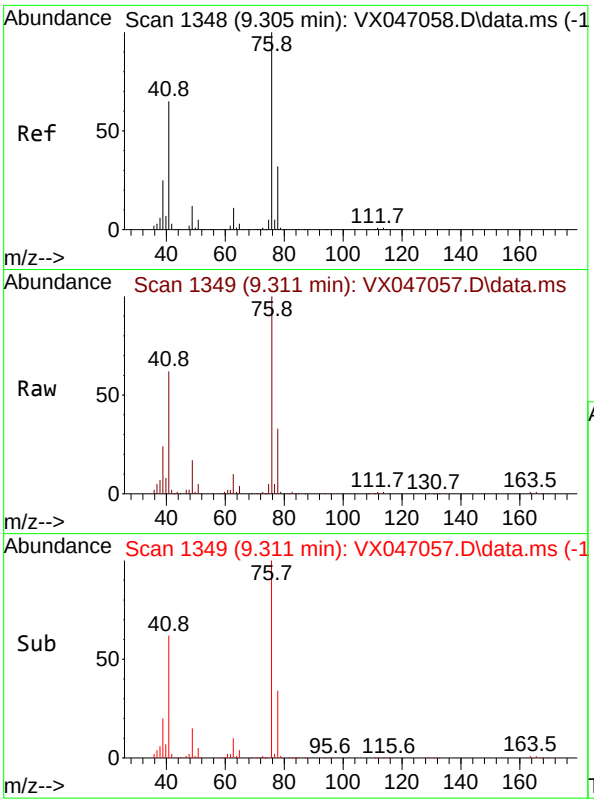


#56
Ethyl methacrylate
Concen: 21.389 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 69 Resp: 121053

Ion	Ratio	Lower	Upper
69	100		
41	71.5	56.1	84.1
39	37.6	31.1	46.7



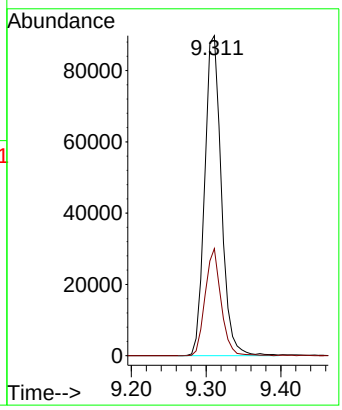


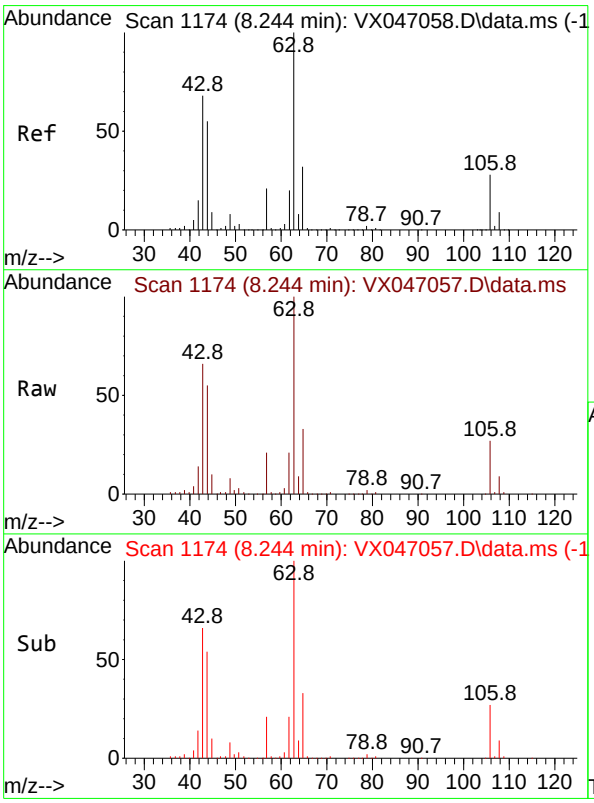
#57
1,3-Dichloropropane
Concen: 20.925 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 139031

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.5	38.3

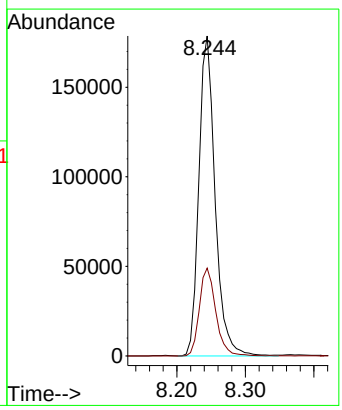


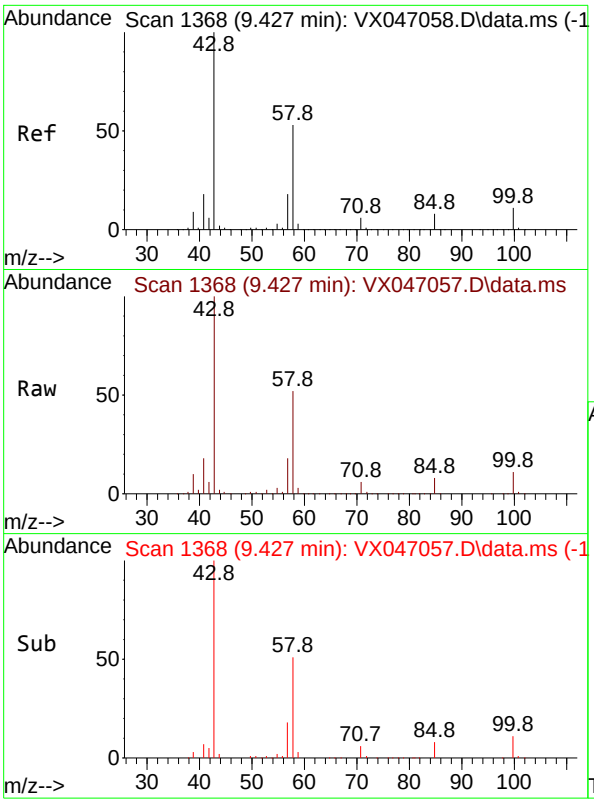


#58
2-Chloroethyl Vinyl ether
Concen: 93.631 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 63 Resp: 294878

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.2	33.4



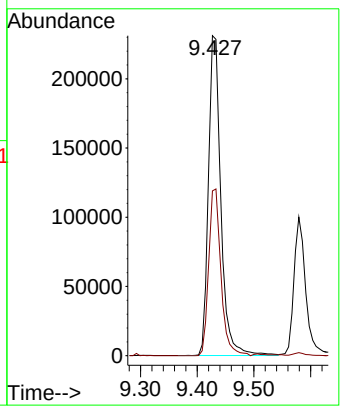


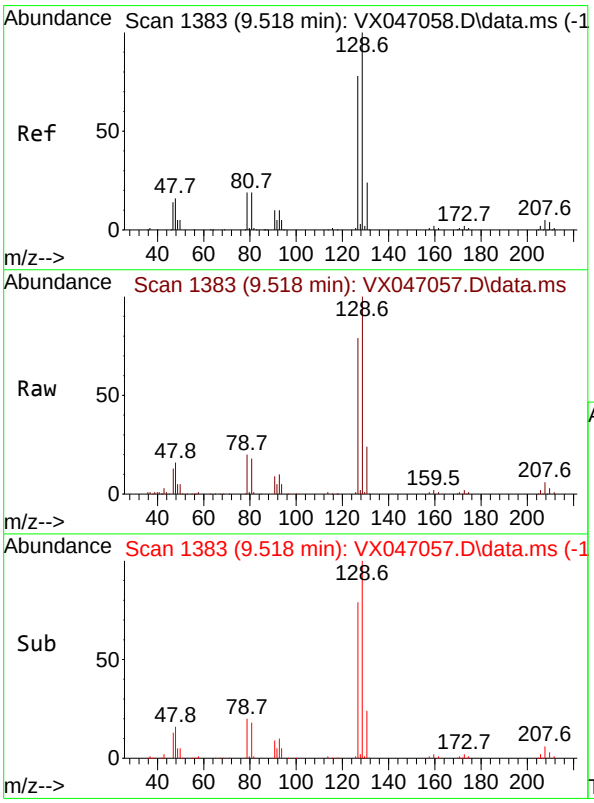
#59
2-Hexanone
Concen: 109.015 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 352298

Ion	Ratio	Lower	Upper
43	100		
58	51.2	26.5	79.5

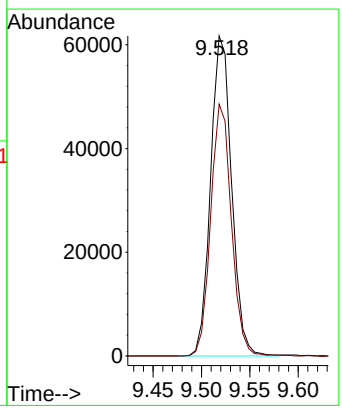


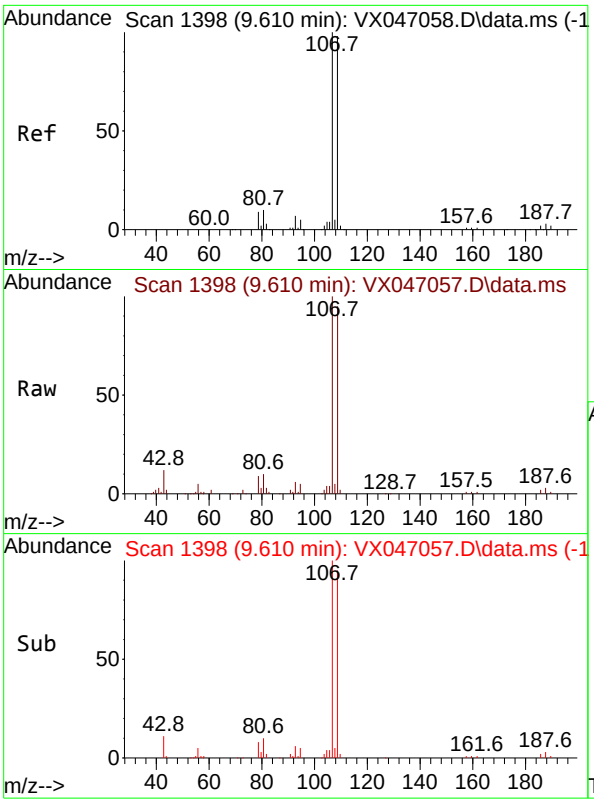


#60
Dibromochloromethane
Concen: 20.779 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:129 Resp: 93165

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.6	115.8



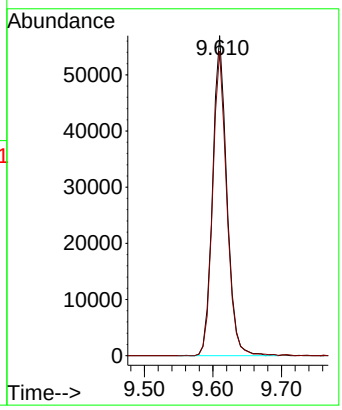


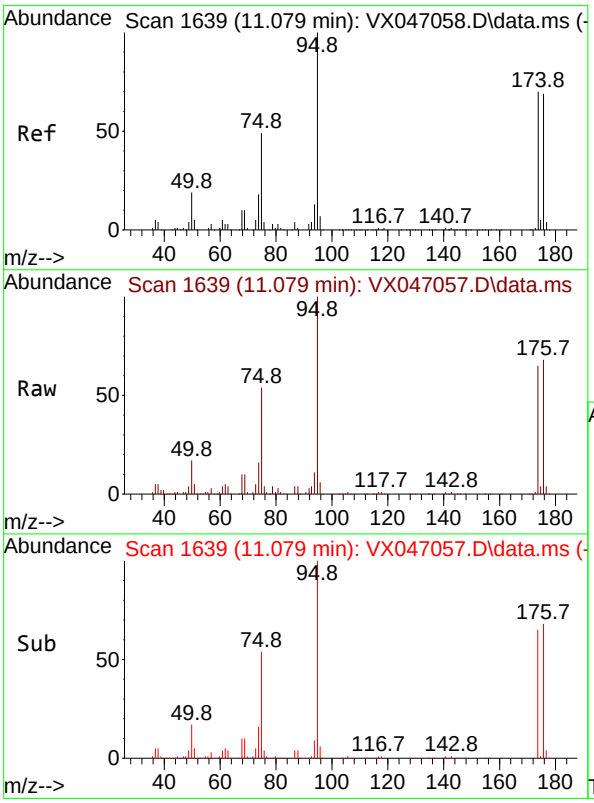
#61
1,2-Dibromoethane
Concen: 20.522 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 82035

Ion	Ratio	Lower	Upper
107	100		
109	94.4	74.6	112.0

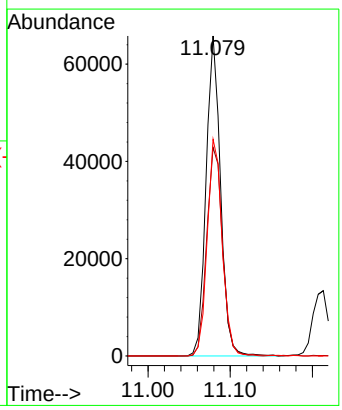


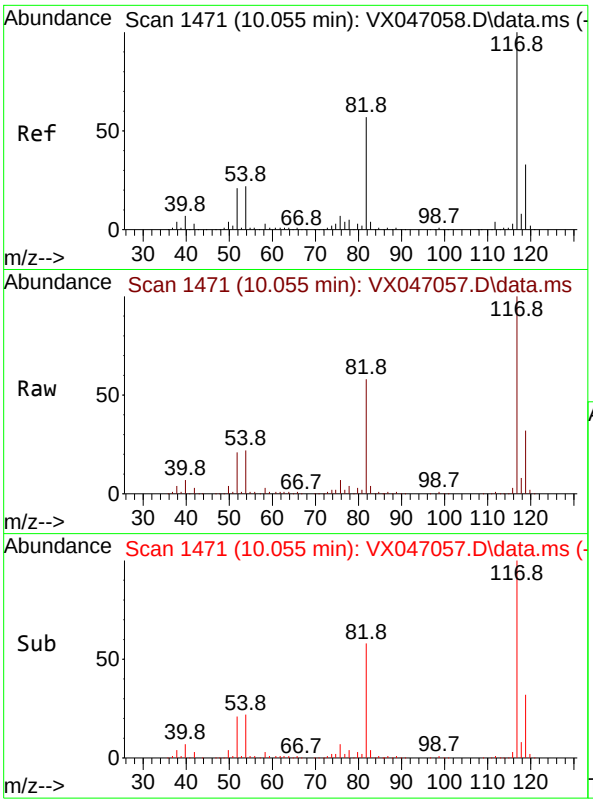


#62
4-Bromofluorobenzene
Concen: 17.133 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 95 Resp: 80359

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	144.6
176	70.0	0.0	139.6



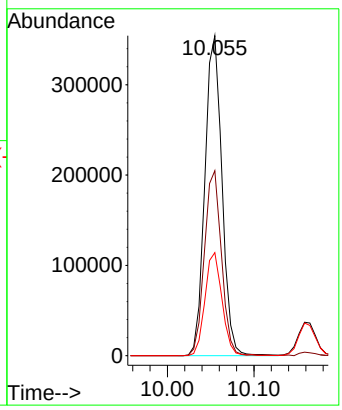


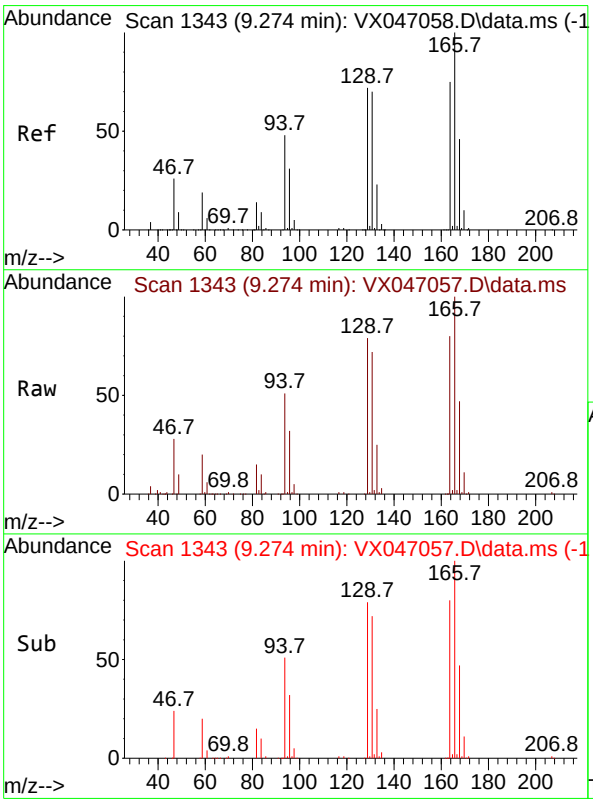
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 486572

Ion	Ratio	Lower	Upper
117	100		
82	57.8	45.4	68.2
119	32.2	26.1	39.1

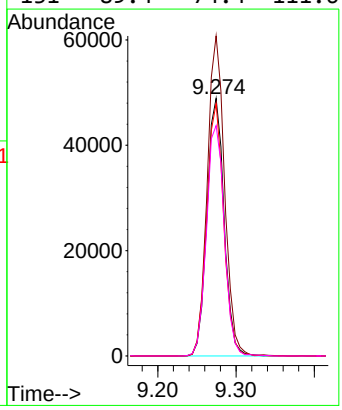


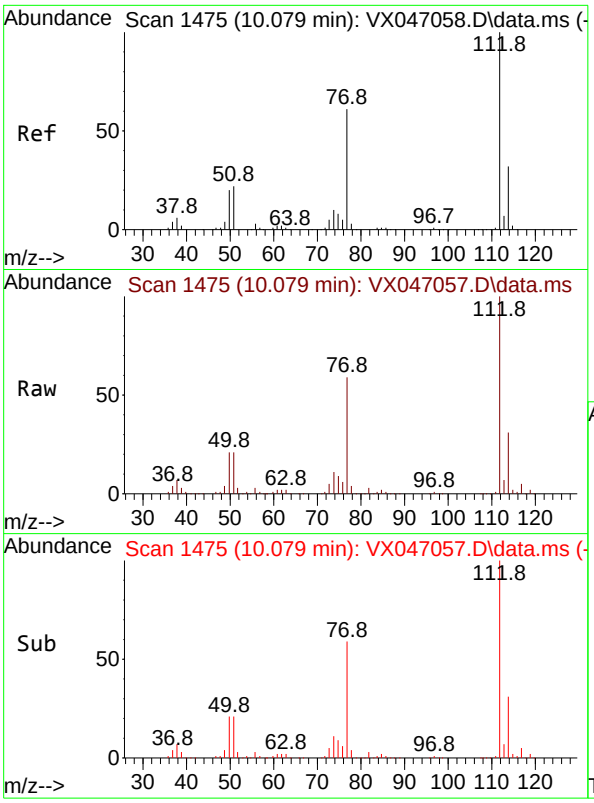


#64
Tetrachloroethene
Concen: 21.147 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:164 Resp: 74177

Ion	Ratio	Lower	Upper
164	100		
166	124.2	106.2	159.4
129	98.0	76.6	114.8
131	89.4	74.4	111.6



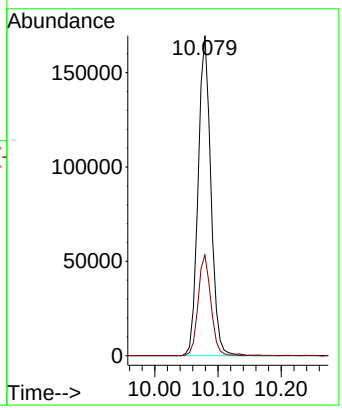


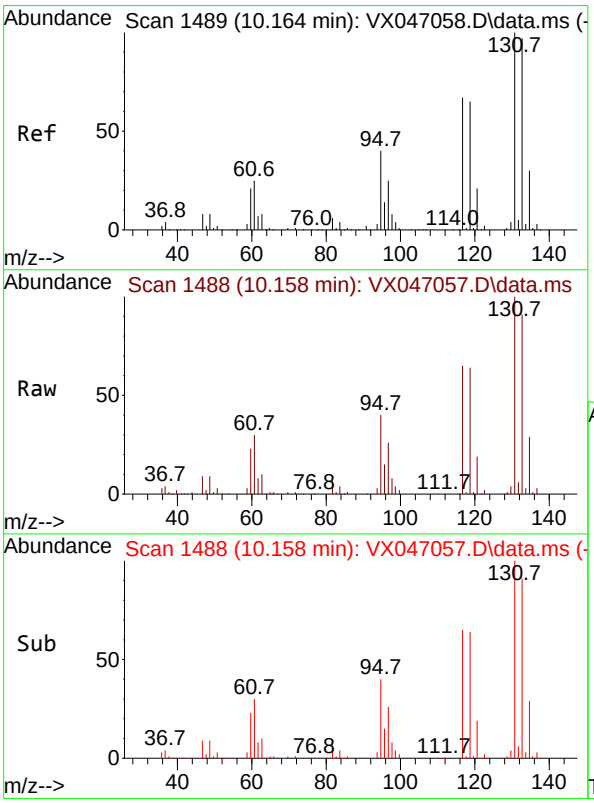
#65
Chlorobenzene
Concen: 20.917 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 238428

Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.8	38.6

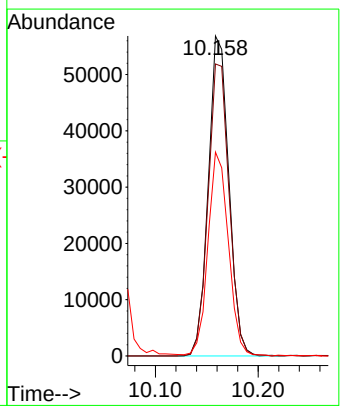


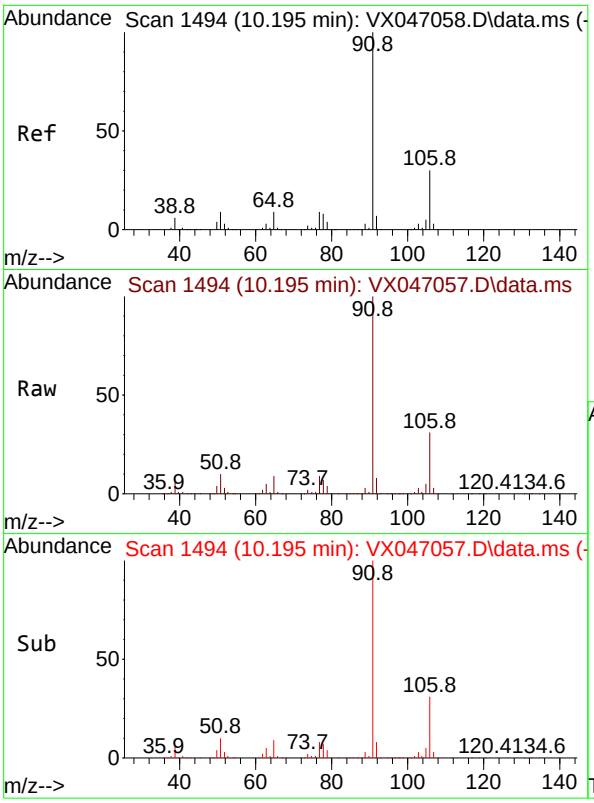


#66
1,1,1,2-Tetrachloroethane
Concen: 20.502 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:131 Resp: 78682

Ion	Ratio	Lower	Upper
131	100		
133	93.9	48.4	145.3
119	63.6	32.4	97.0



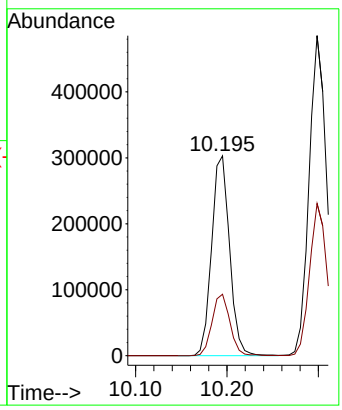


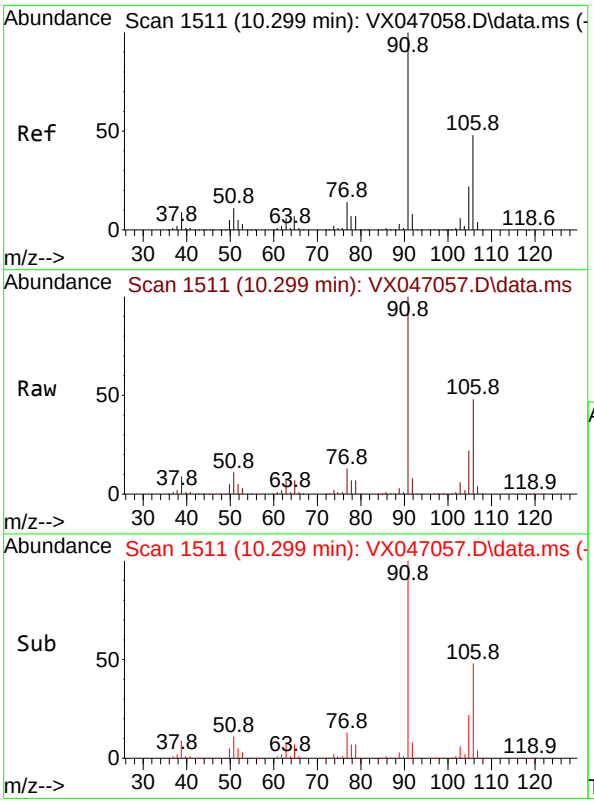
#67
Ethyl Benzene
Concen: 20.693 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 412412

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.2	36.4

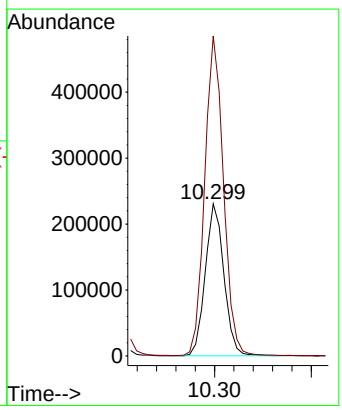


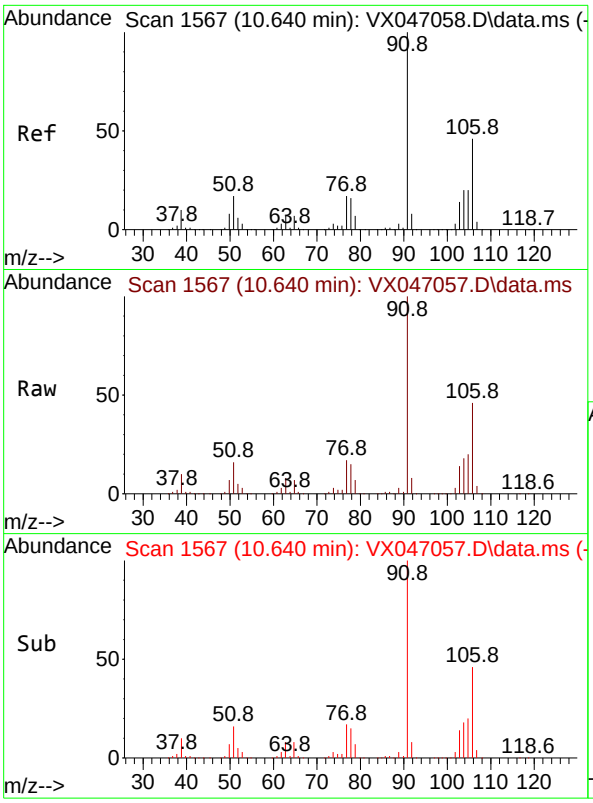


#68
m/p-Xylenes
Concen: 41.478 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:106 Resp: 309353

Ion	Ratio	Lower	Upper
106	100		
91	212.6	167.4	251.0



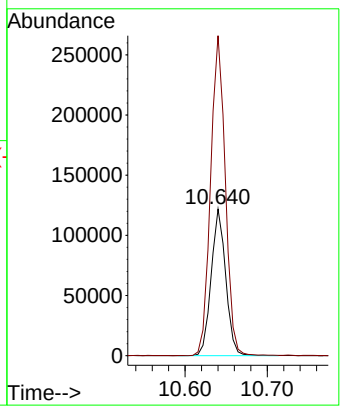


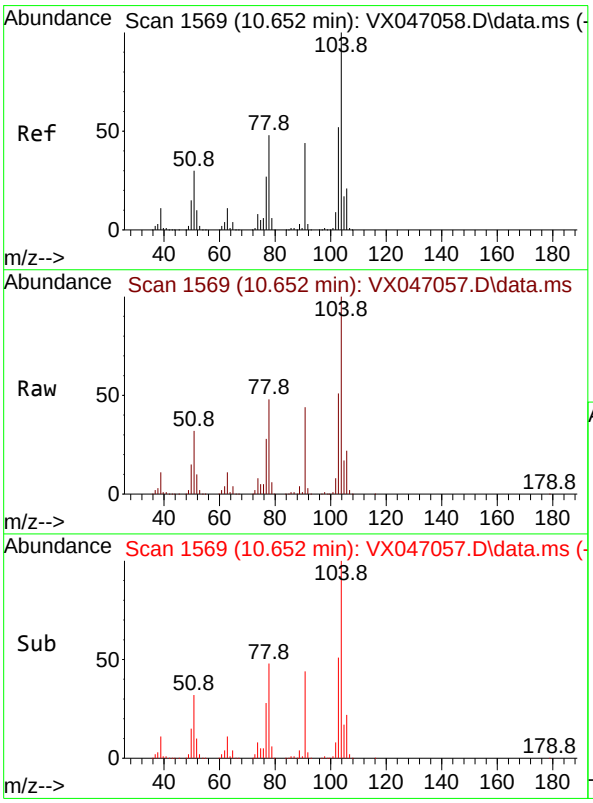
#69
o-Xylene
Concen: 21.083 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 149592

Ion	Ratio	Lower	Upper
106	100		
91	221.0	110.3	331.0

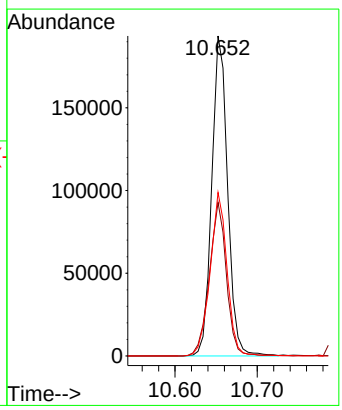


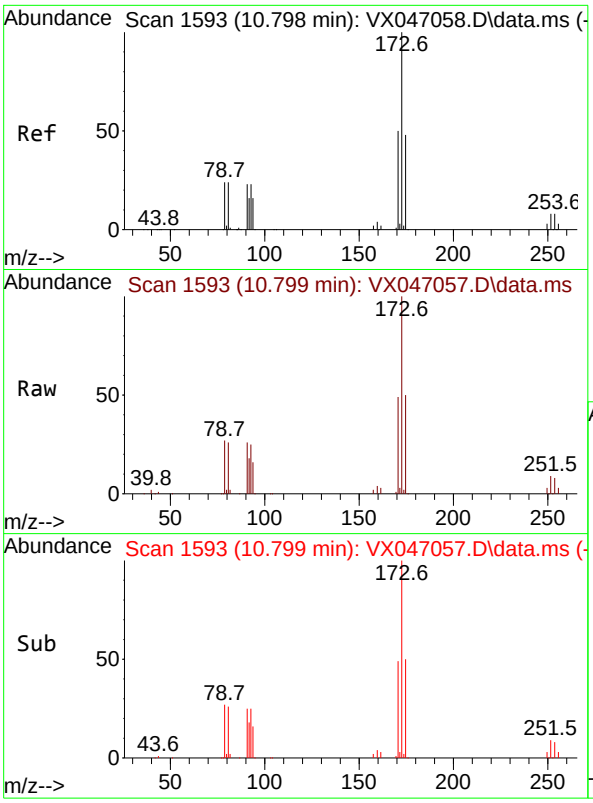


#70
Styrene
Concen: 21.310 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:104 Resp: 259267

Ion	Ratio	Lower	Upper
104	100		
78	51.9	42.0	63.0
103	54.6	43.8	65.6



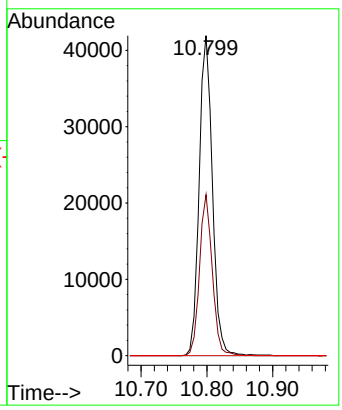


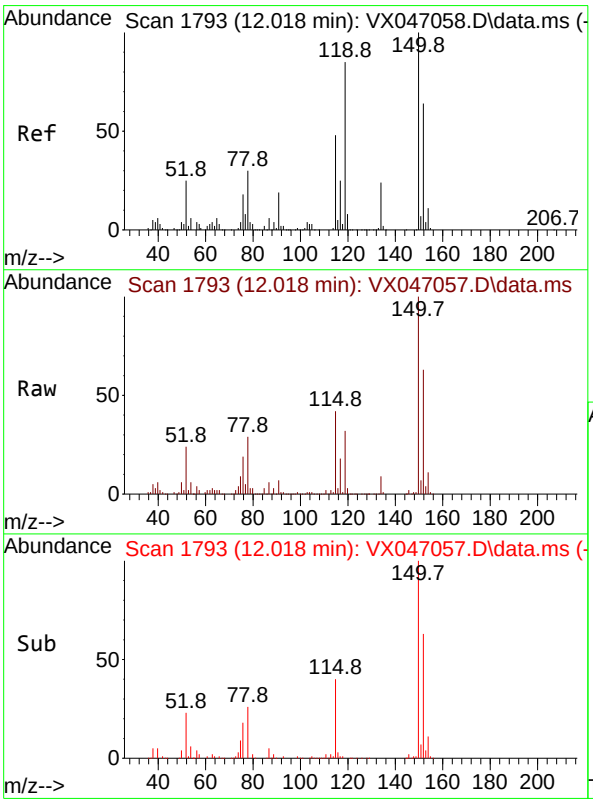
#71
Bromoform
Concen: 20.135 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 58699

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.2	72.6
254	0.0	0.1	0.1#

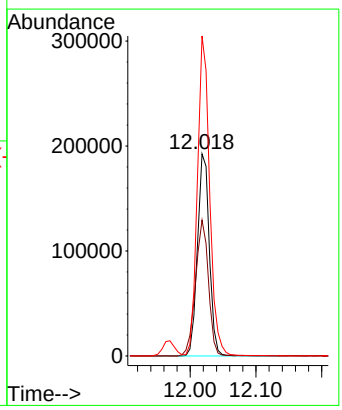


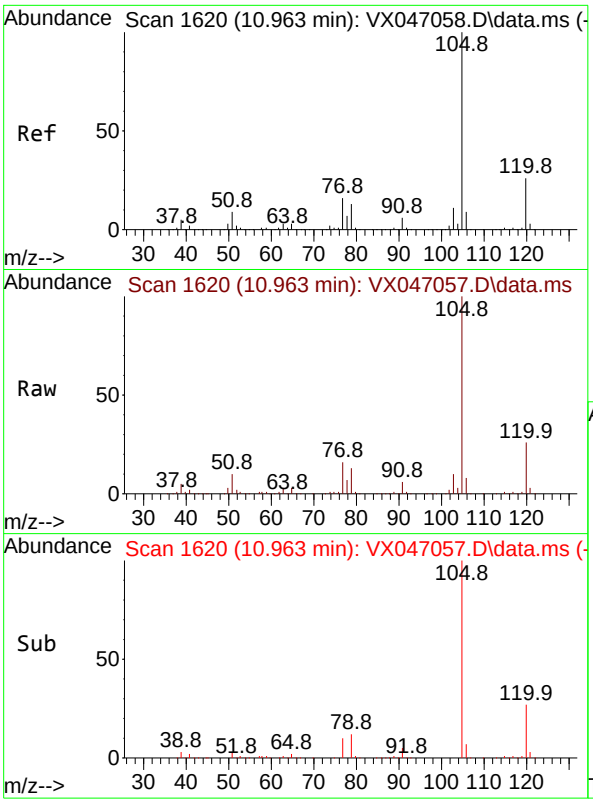


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:152 Resp: 240632

Ion	Ratio	Lower	Upper
152	100		
115	73.2	45.6	136.7
150	163.9	0.0	354.6



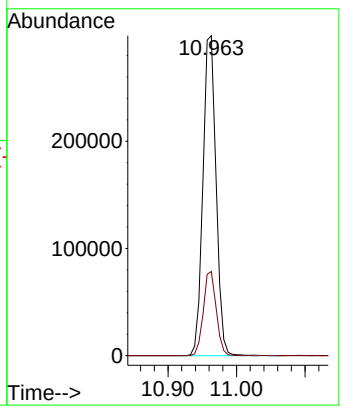


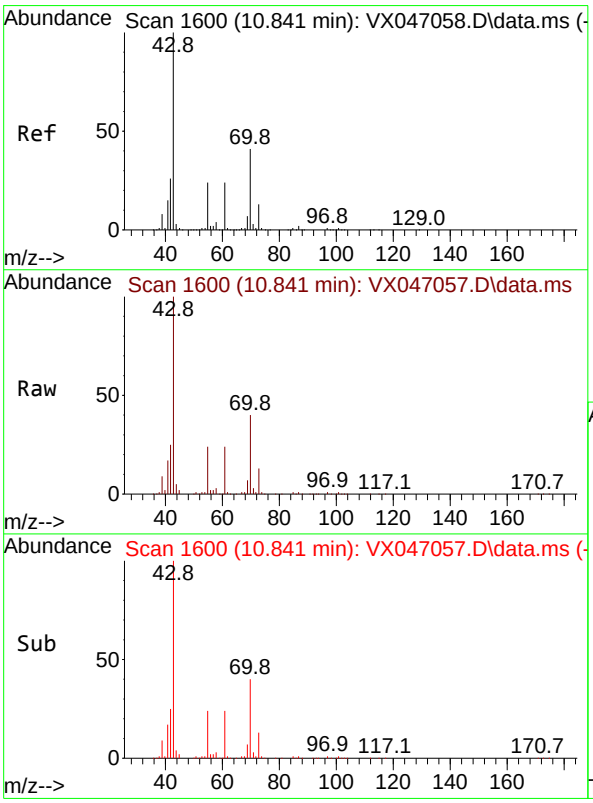
#73
Isopropylbenzene
Concen: 21.021 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 399077

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.7

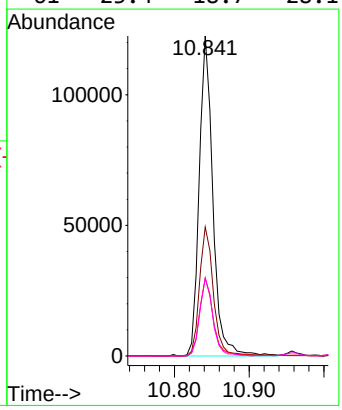


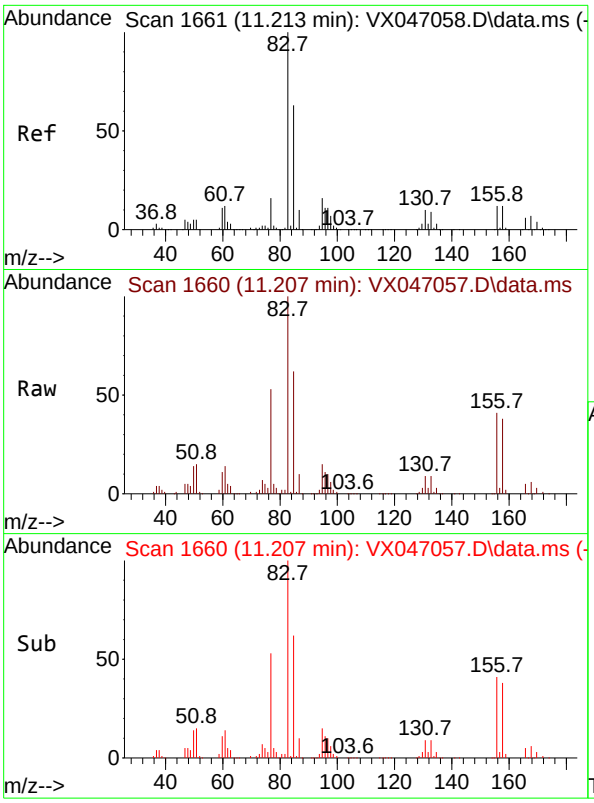


#74
N-amyl acetate
Concen: 20.558 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 43 Resp: 155675

Ion	Ratio	Lower	Upper
43	100		
70	41.1	32.3	48.5
55	24.5	18.9	28.3
61	23.4	18.7	28.1



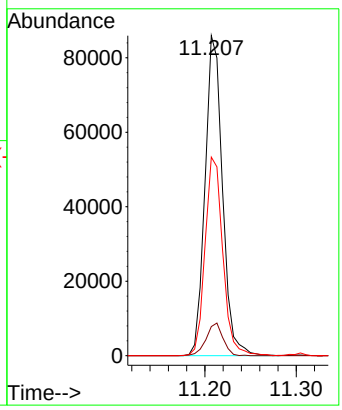


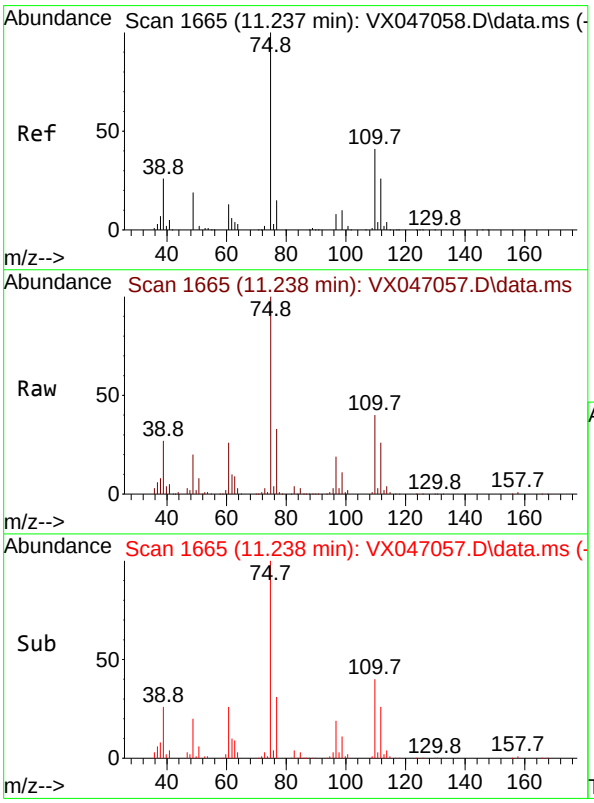
#75
1,1,2,2-Tetrachloroethane
Concen: 20.975 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 113741

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	63.1	32.0	96.2

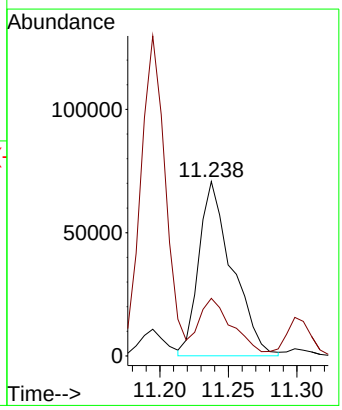


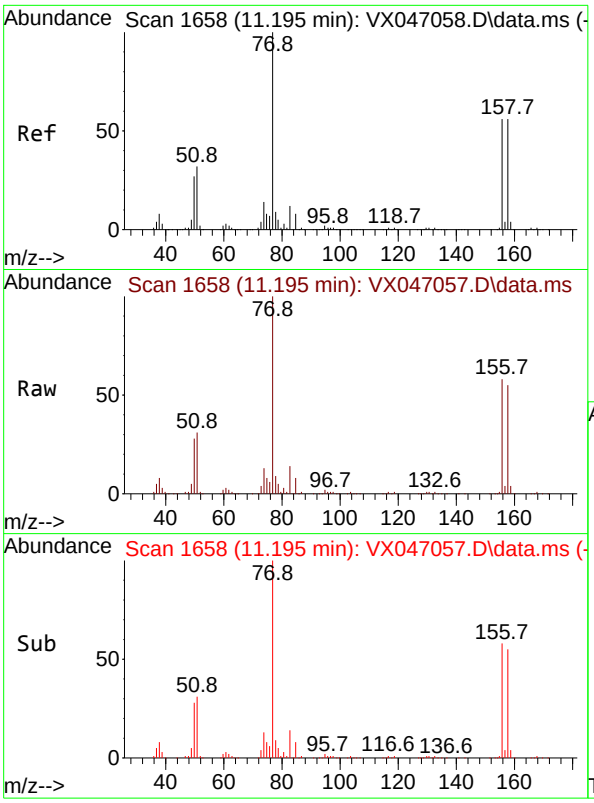


#76
1,2,3-Trichloropropane
Concen: 26.913 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 75 Resp: 119868

Ion	Ratio	Lower	Upper
75	100		
77	33.1	21.6	65.0



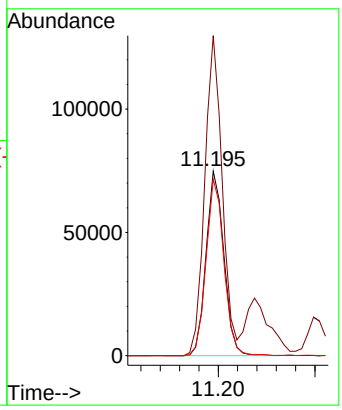


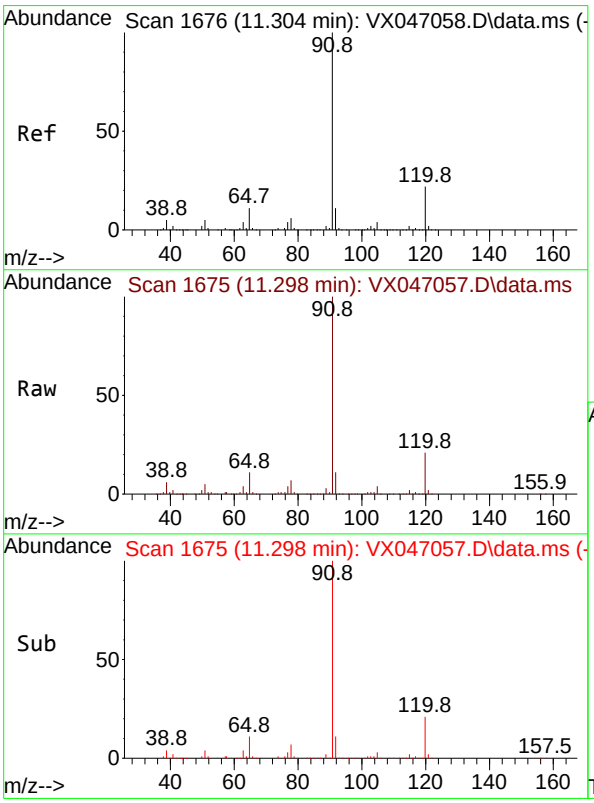
#77
Bromobenzene
Concen: 21.073 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 95957

Ion	Ratio	Lower	Upper
156	100		
77	169.8	87.3	261.9
158	95.8	48.9	146.6

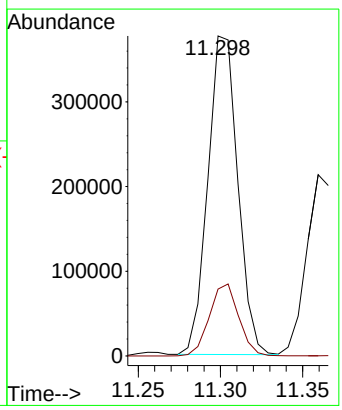


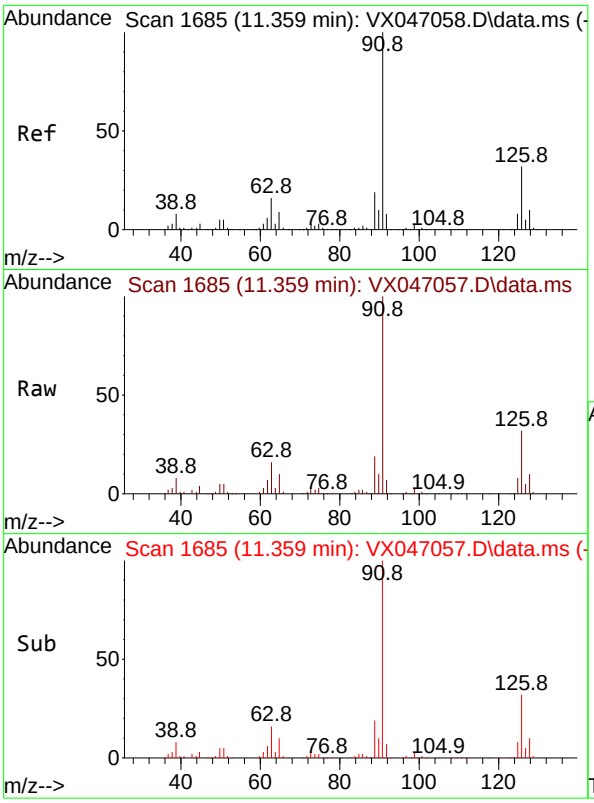


#78
n-propylbenzene
Concen: 20.991 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 91 Resp: 476196

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0



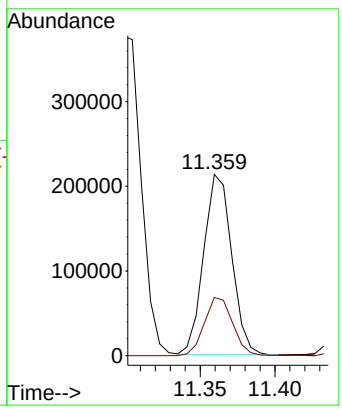


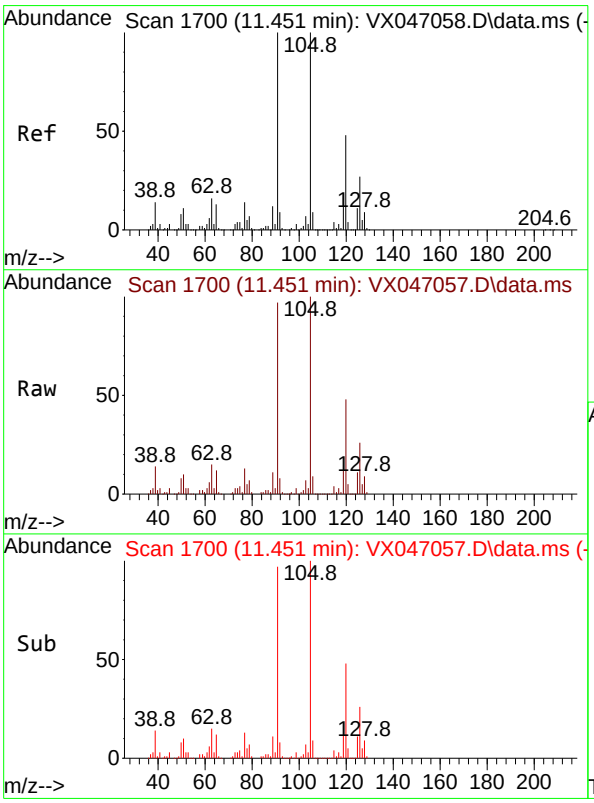
#79
2-Chlorotoluene
Concen: 20.545 ug/l
RT: 11.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 278615

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.4	49.4

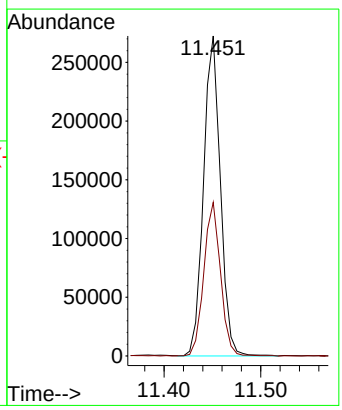


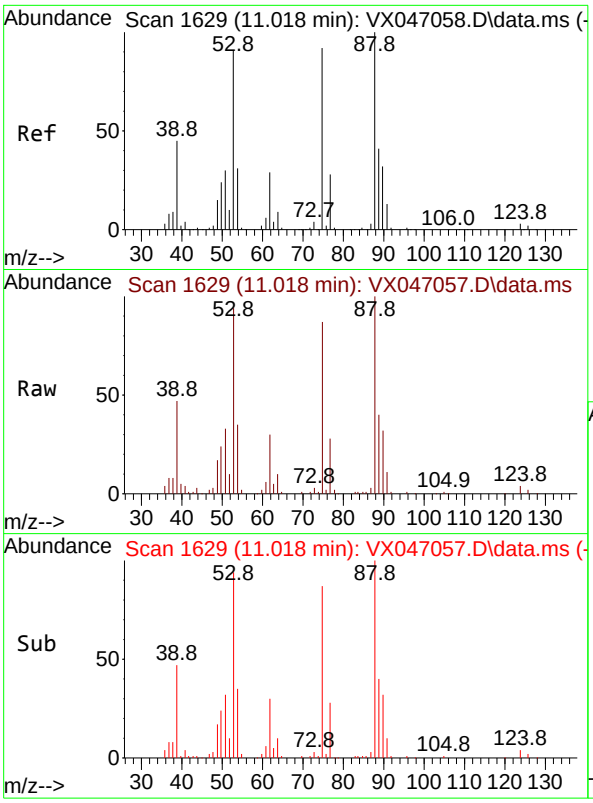


#80
1,3,5-Trimethylbenzene
Concen: 21.093 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:105 Resp: 330824

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.5



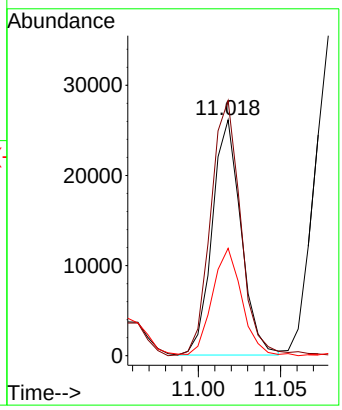


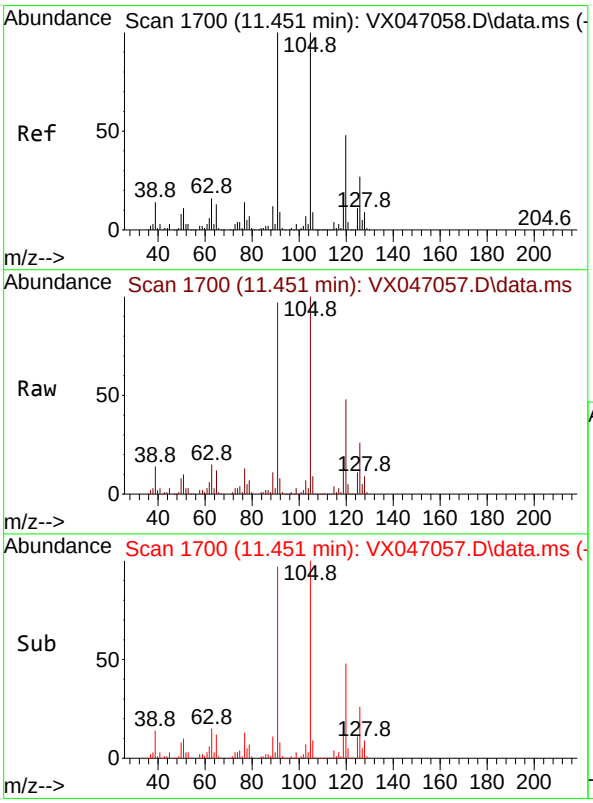
#81
trans-1,4-Dichloro-2-butene
Concen: 18.440 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 31878

Ion	Ratio	Lower	Upper
75	100		
53	113.5	84.2	126.4
89	46.7	36.0	54.0

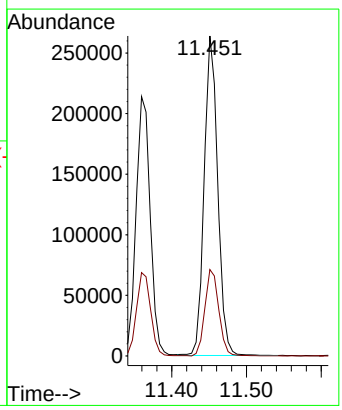


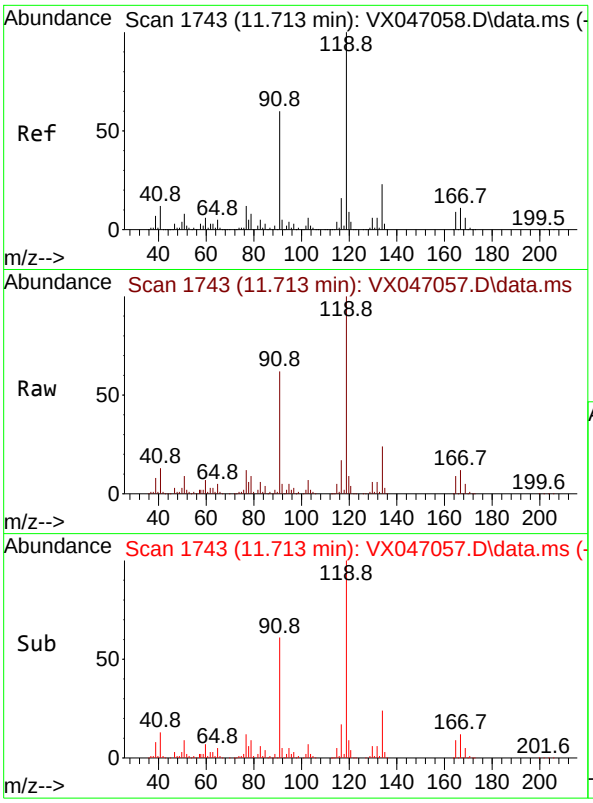


#82
4-Chlorotoluene
Concen: 20.951 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 91 Resp: 331629

Ion	Ratio	Lower	Upper
91	100		
126	27.9	14.1	42.3



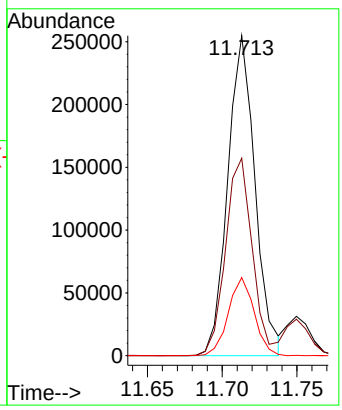


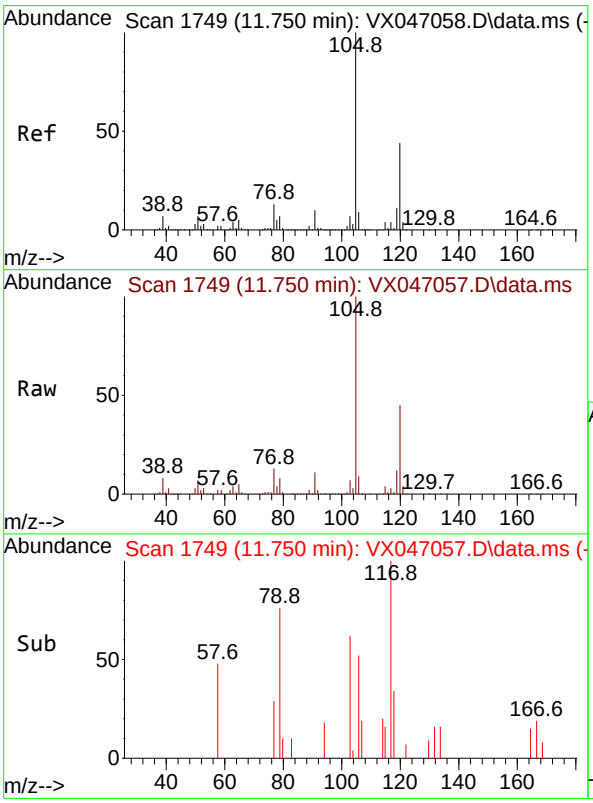
#83
tert-Butylbenzene
Concen: 20.571 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 323819

Ion	Ratio	Lower	Upper
119	100		
91	59.9	29.6	88.8
134	23.2	11.4	34.1

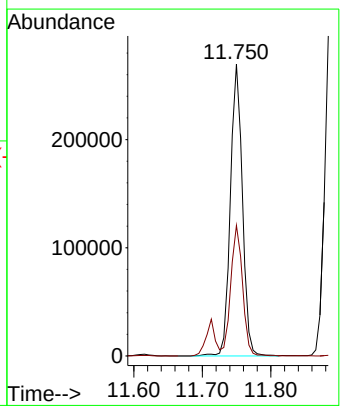


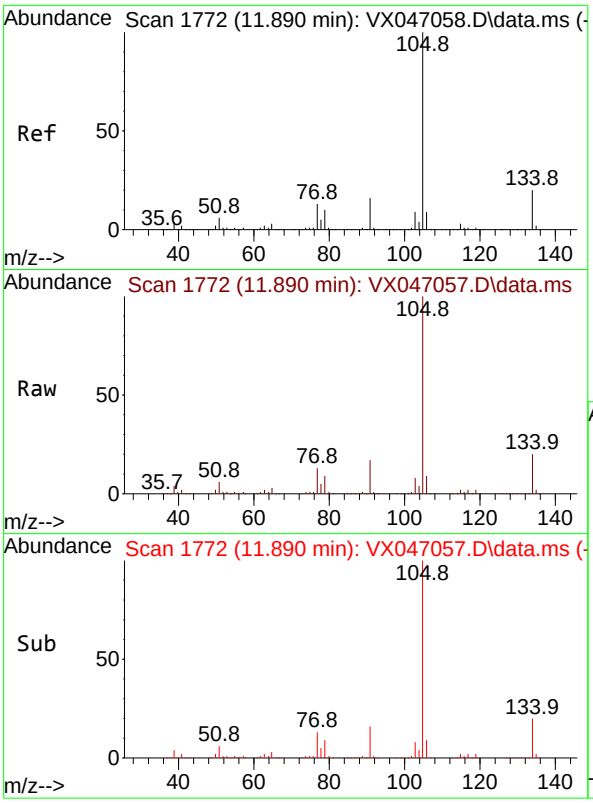


#84
1,2,4-Trimethylbenzene
Concen: 21.010 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:105 Resp: 328672

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.0	66.0



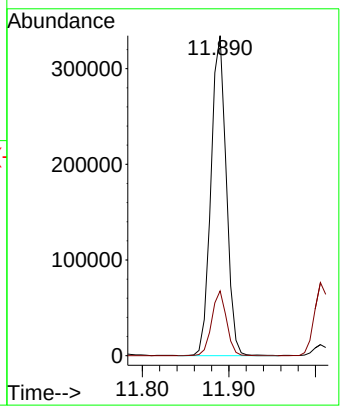


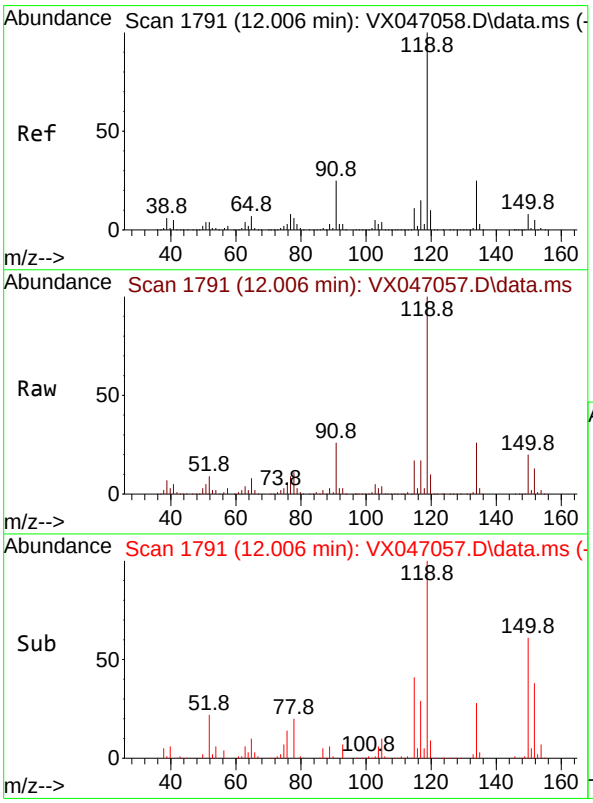
#85
sec-Butylbenzene
Concen: 20.892 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 410930

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.9	29.7

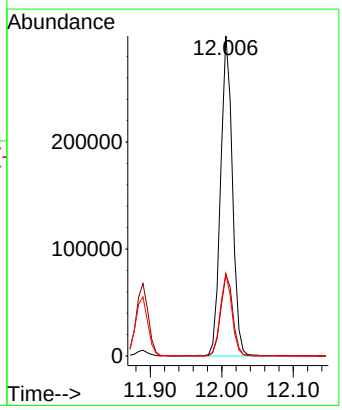


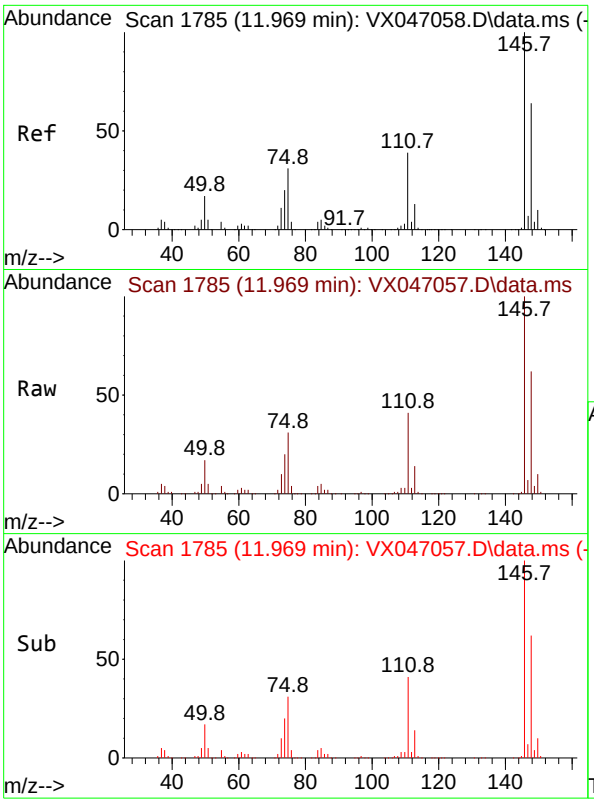


#86
p-Isopropyltoluene
Concen: 21.065 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:119 Resp: 343591

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.8	38.4
91	25.4	12.4	37.4



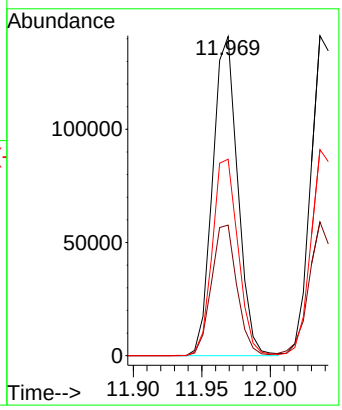


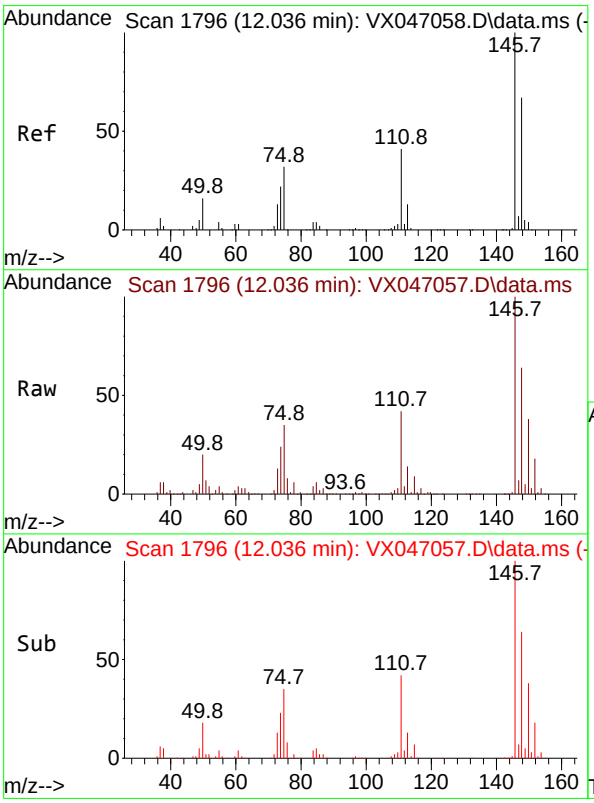
#87
1,3-Dichlorobenzene
Concen: 20.789 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 179867

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.0	63.0
148	63.3	32.0	96.0

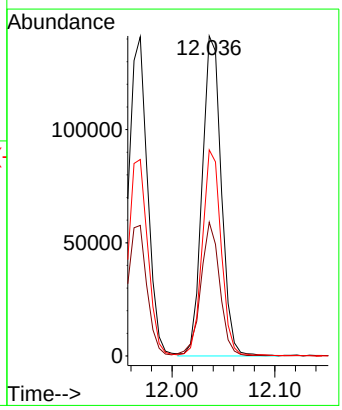


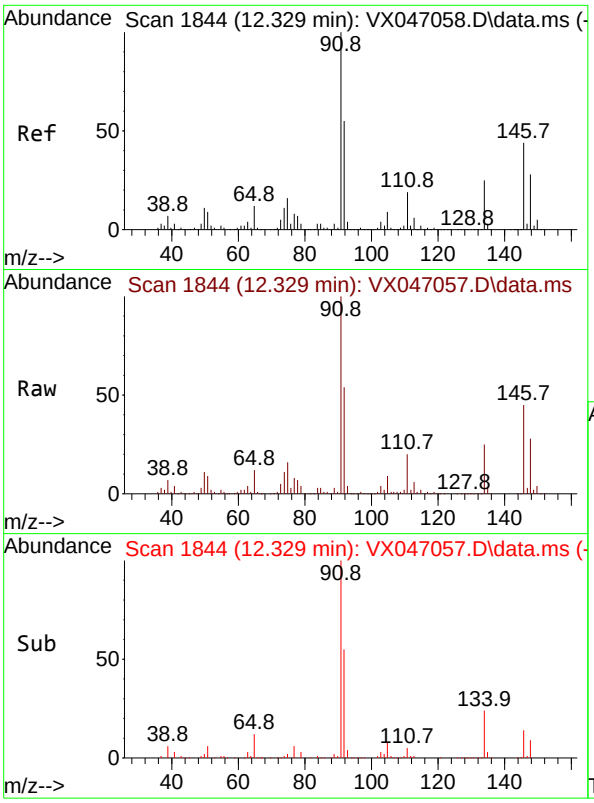


#88
1,4-Dichlorobenzene
Concen: 20.897 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:146 Resp: 183173

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.6	61.9
148	63.3	33.0	98.9



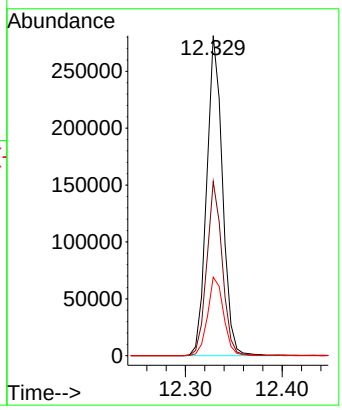


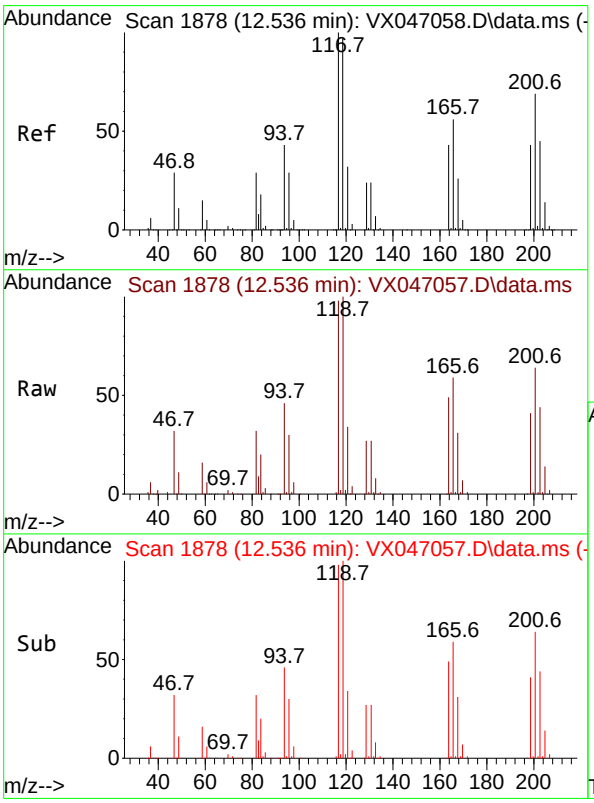
#89
n-Butylbenzene
Concen: 20.916 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 319940

Ion	Ratio	Lower	Upper
91	100		
92	53.1	27.5	82.5
134	25.0	12.8	38.3

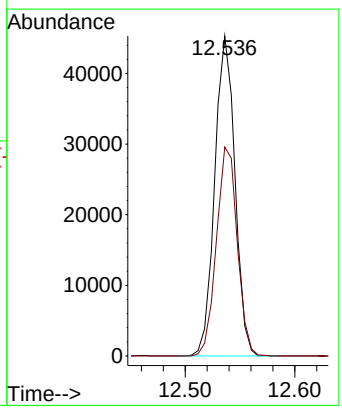


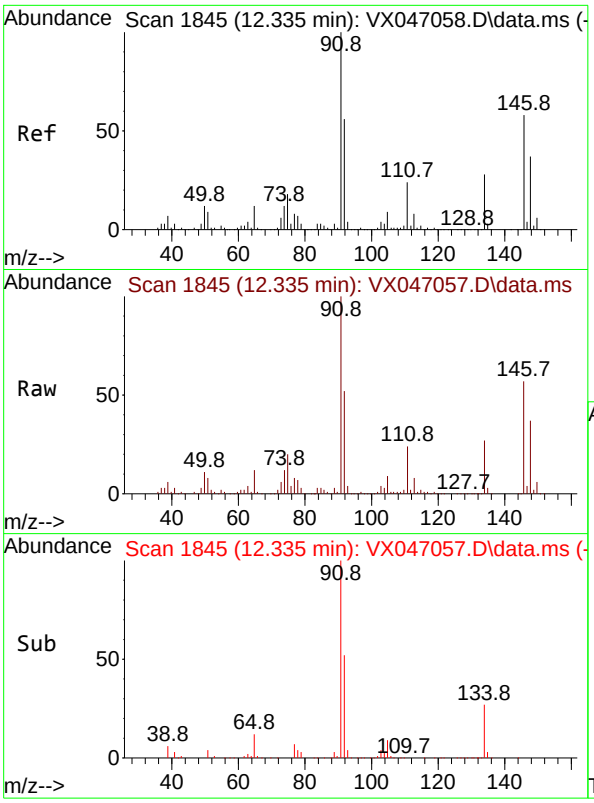


#90
Hexachloroethane
Concen: 19.896 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:117 Resp: 58057

Ion	Ratio	Lower	Upper
117	100		
201	67.5	34.8	104.5



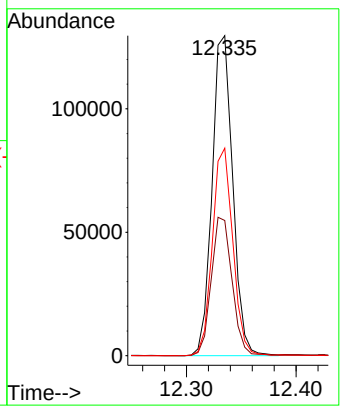


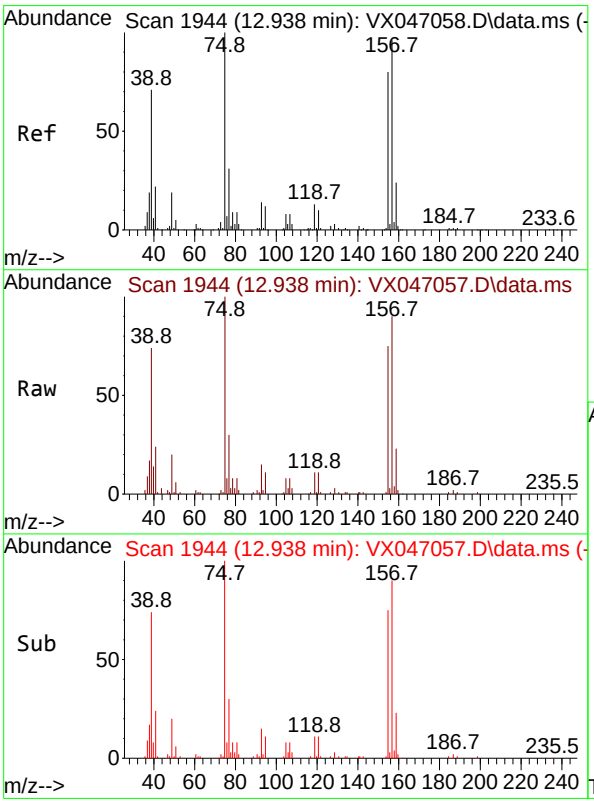
#91
1,2-Dichlorobenzene
Concen: 20.528 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 169749

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.6	64.6
148	64.8	31.9	95.7

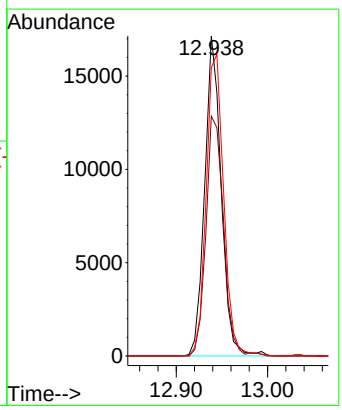


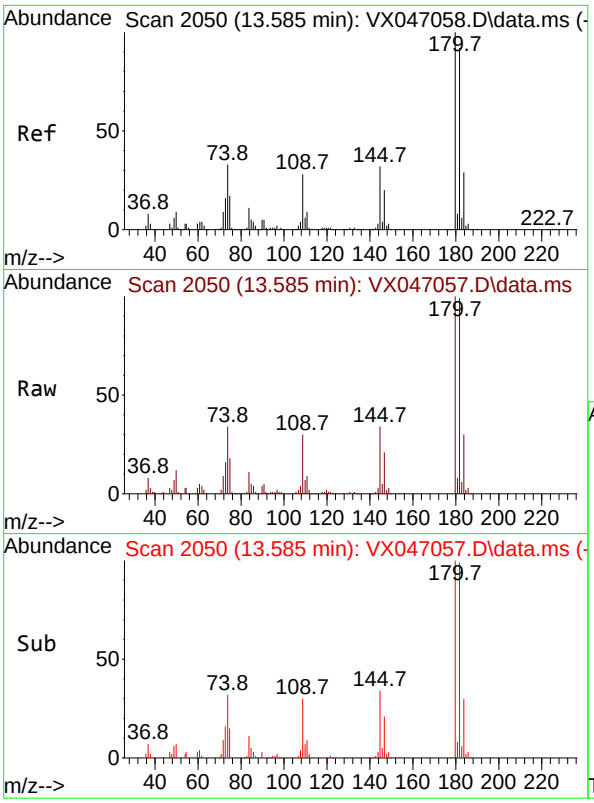


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.585 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion: 75 Resp: 21427

Ion	Ratio	Lower	Upper
75	100		
155	79.9	41.3	124.1
157	99.9	52.8	158.3



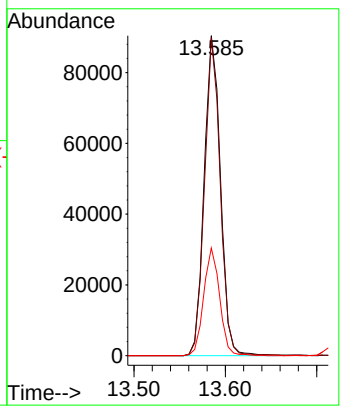


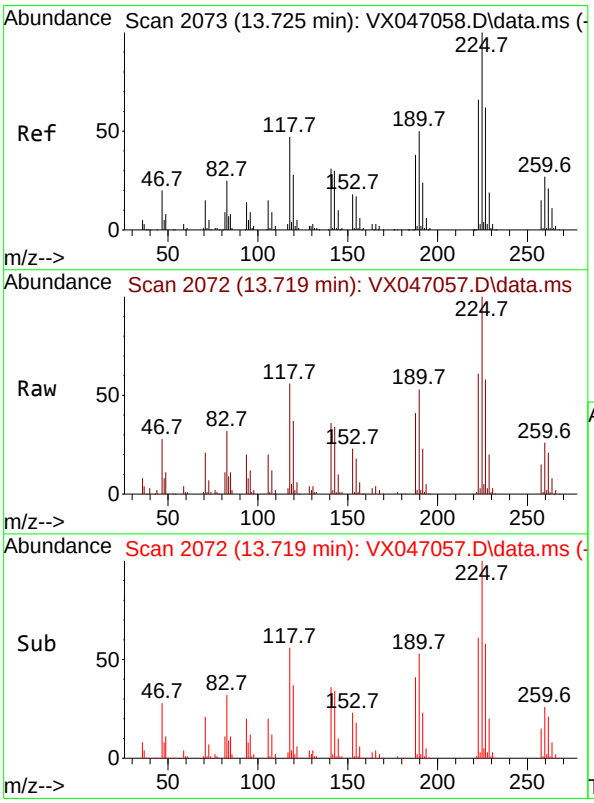
#93
1,2,4-Trichlorobenzene
Concen: 20.413 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 111525

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.3	141.8
145	33.0	16.4	49.1

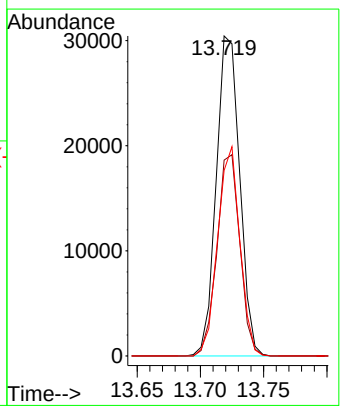


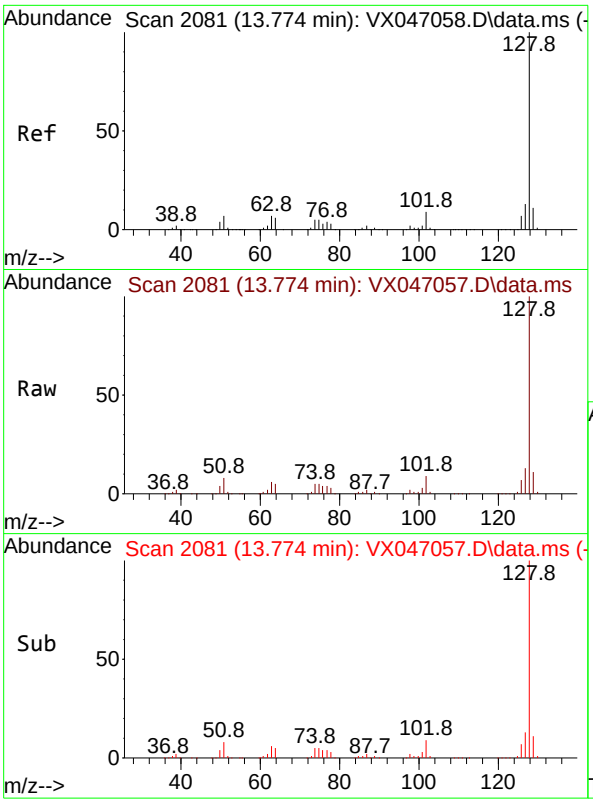


#94
Hexachlorobutadiene
Concen: 21.090 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:225 Resp: 39186

Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.6	95.0
227	62.0	32.9	98.6



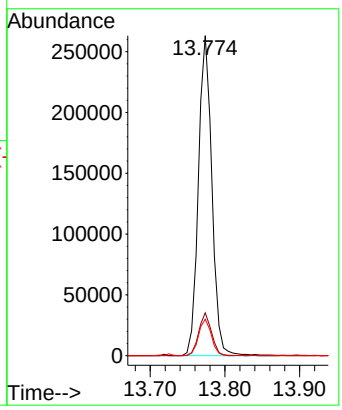


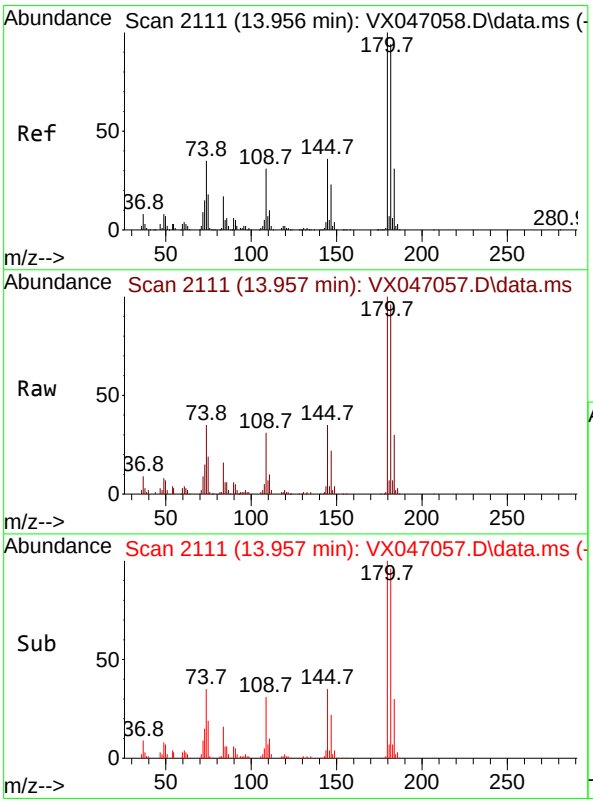
#95
Naphthalene
Concen: 20.581 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 329630

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	11.0	8.6	13.0

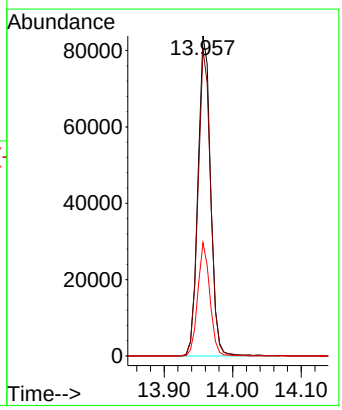




#96
1,2,3-Trichlorobenzene
Concen: 20.432 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047057.D
Acq: 21 Jul 2025 10:29

Tgt Ion:180 Resp: 107542

Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.9	140.6
145	33.8	17.3	52.0



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047058.D
Acq On : 21 Jul 2025 10:50
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Jul 22 03:38:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	309883	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	516282	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	464565	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	223799	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	178313	46.193	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 92.380%			
35) Dibromofluoromethane	5.397	113	152747	47.918	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.840%			
50) Toluene-d8	8.652	98	477108	46.217	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 92.440%			
62) 4-Bromofluorobenzene	11.079	95	211198	47.473	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 94.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	238090	57.844	ug/l	100
3) Chloromethane	1.306	50	216682	53.219	ug/l	100
4) Vinyl Chloride	1.386	62	241663	55.216	ug/l	100
5) Bromomethane	1.617	94	138734	58.354	ug/l	100
6) Chloroethane	1.703	64	145779	50.714	ug/l	100
7) Trichlorofluoromethane	1.904	101	358904	54.994	ug/l	100
8) Diethyl Ether	2.148	74	120887	52.535	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	209152	53.194	ug/l	100
10) Methyl Iodide	2.471	142	225356	56.237	ug/l	100
11) Tert butyl alcohol	2.958	59	113517	251.629	ug/l	100
12) 1,1-Dichloroethene	2.337	96	208894	53.640	ug/l	100
13) Acrolein	2.251	56	214749	258.372	ug/l	100
14) Allyl chloride	2.678	41	383854	54.528	ug/l	100
15) Acrylonitrile	3.074	53	510056	277.051	ug/l	100
16) Acetone	2.385	43	390060	252.239	ug/l	100
17) Carbon Disulfide	2.532	76	600045	53.261	ug/l	100
18) Methyl Acetate	2.715	43	213070	51.848	ug/l	100
19) Methyl tert-butyl Ether	3.123	73	636699	53.721	ug/l	100
20) Methylene Chloride	2.806	84	223713	52.585	ug/l	100
21) trans-1,2-Dichloroethene	3.105	96	215393	54.049	ug/l	100
22) Diisopropyl ether	3.769	45	731970	54.083	ug/l	100
23) Vinyl Acetate	3.733	43	3005277	276.847	ug/l	100
24) 1,1-Dichloroethane	3.623	63	402810	53.522	ug/l	100
25) 2-Butanone	4.562	43	605614	268.961	ug/l	100
26) 2,2-Dichloropropane	4.489	77	303417	52.081	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	250112	53.001	ug/l	100
28) Bromochloromethane	4.909	49	188828	54.536	ug/l	100
29) Tetrahydrofuran	5.013	42	397391	273.532	ug/l	100
30) Chloroform	5.104	83	399454	52.141	ug/l	100
31) Cyclohexane	5.482	56	376396	52.159	ug/l	100
32) 1,1,1-Trichloroethane	5.397	97	349090	52.462	ug/l	100
36) 1,1-Dichloropropene	5.702	75	282151	51.926	ug/l	100
37) Ethyl Acetate	4.720	43	263866	55.103	ug/l	100
38) Carbon Tetrachloride	5.690	117	306989	52.934	ug/l	100
39) Methylcyclohexane	7.384	83	360702	53.168	ug/l	100
40) Benzene	6.043	78	851995	54.180	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047058.D
Acq On : 21 Jul 2025 10:50
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Jul 22 03:38:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	150516	57.494	ug/l	100
42) 1,2-Dichloroethane	6.098	62	297385	53.686	ug/l	100
43) Isopropyl Acetate	6.348	43	438617	56.192	ug/l	100
44) Trichloroethene	7.128	130	216747	53.751	ug/l	100
45) 1,2-Dichloropropane	7.433	63	210862	53.539	ug/l	100
46) Dibromomethane	7.586	93	151672	54.916	ug/l	100
47) Bromodichloromethane	7.823	83	318771	54.225	ug/l	100
48) Methyl methacrylate	7.695	41	227033	53.391	ug/l	100
49) 1,4-Dioxane	7.659	88	53924	1114.967	ug/l	100
51) 4-Methyl-2-Pentanone	8.573	43	1282299	276.384	ug/l	100
52) Toluene	8.720	92	524916	54.288	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	305568	55.044	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	337057	55.475	ug/l	100
55) 1,1,2-Trichloroethane	9.152	97	194314	53.587	ug/l	100
56) Ethyl methacrylate	9.116	69	307494	57.281	ug/l	100
57) 1,3-Dichloropropane	9.305	76	337106	53.491	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	833190	278.917	ug/l	100
59) 2-Hexanone	9.427	43	886635	289.252	ug/l	100
60) Dibromochloromethane	9.518	129	229147	53.881	ug/l	100
61) 1,2-Dibromoethane	9.610	107	204078	53.823	ug/l	100
64) Tetrachloroethene	9.274	164	174727	52.173	ug/l	100
65) Chlorobenzene	10.079	112	571696	52.530	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.164	131	194777	53.158	ug/l	100
67) Ethyl Benzene	10.195	91	1023986	53.812	ug/l	100
68) m/p-Xylenes	10.299	106	759689	106.683	ug/l	100
69) o-Xylene	10.640	106	364689	53.834	ug/l	100
70) Styrene	10.652	104	632474	54.447	ug/l	100
71) Bromoform	10.798	173	150938	54.228	ug/l	100
73) Isopropylbenzene	10.963	105	964411	54.621	ug/l	100
74) N-amyl acetate	10.841	43	399297	56.697	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	270685	53.670	ug/l	100
76) 1,2,3-Trichloropropane	11.237	75	294731	71.150	ug/l	83
77) Bromobenzene	11.195	156	227531	53.727	ug/l	100
78) n-propylbenzene	11.304	91	1145472	54.290	ug/l	100
79) 2-Chlorotoluene	11.359	91	677779	53.739	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	788518	54.057	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	87538	54.445	ug/l	100
82) 4-Chlorotoluene	11.451	91	798628	54.249	ug/l	100
83) tert-Butylbenzene	11.713	119	802592	54.819	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	800479	55.018	ug/l	100
85) sec-Butylbenzene	11.890	105	984328	53.809	ug/l	100
86) p-Isopropyltoluene	12.006	119	829044	54.651	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	427108	53.079	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	423743	51.978	ug/l	100
89) n-Butylbenzene	12.329	91	773506	54.372	ug/l	100
90) Hexachloroethane	12.536	117	146577	54.011	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	408192	53.076	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	53563	55.328	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	274012	53.926	ug/l	100
94) Hexachlorobutadiene	13.725	225	90816	52.553	ug/l	100
95) Naphthalene	13.774	128	839990	56.390	ug/l	100
96) 1,2,3-Trichlorobenzene	13.956	180	262282	53.580	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047058.D
Acq On : 21 Jul 2025 10:50
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Jul 22 03:38:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

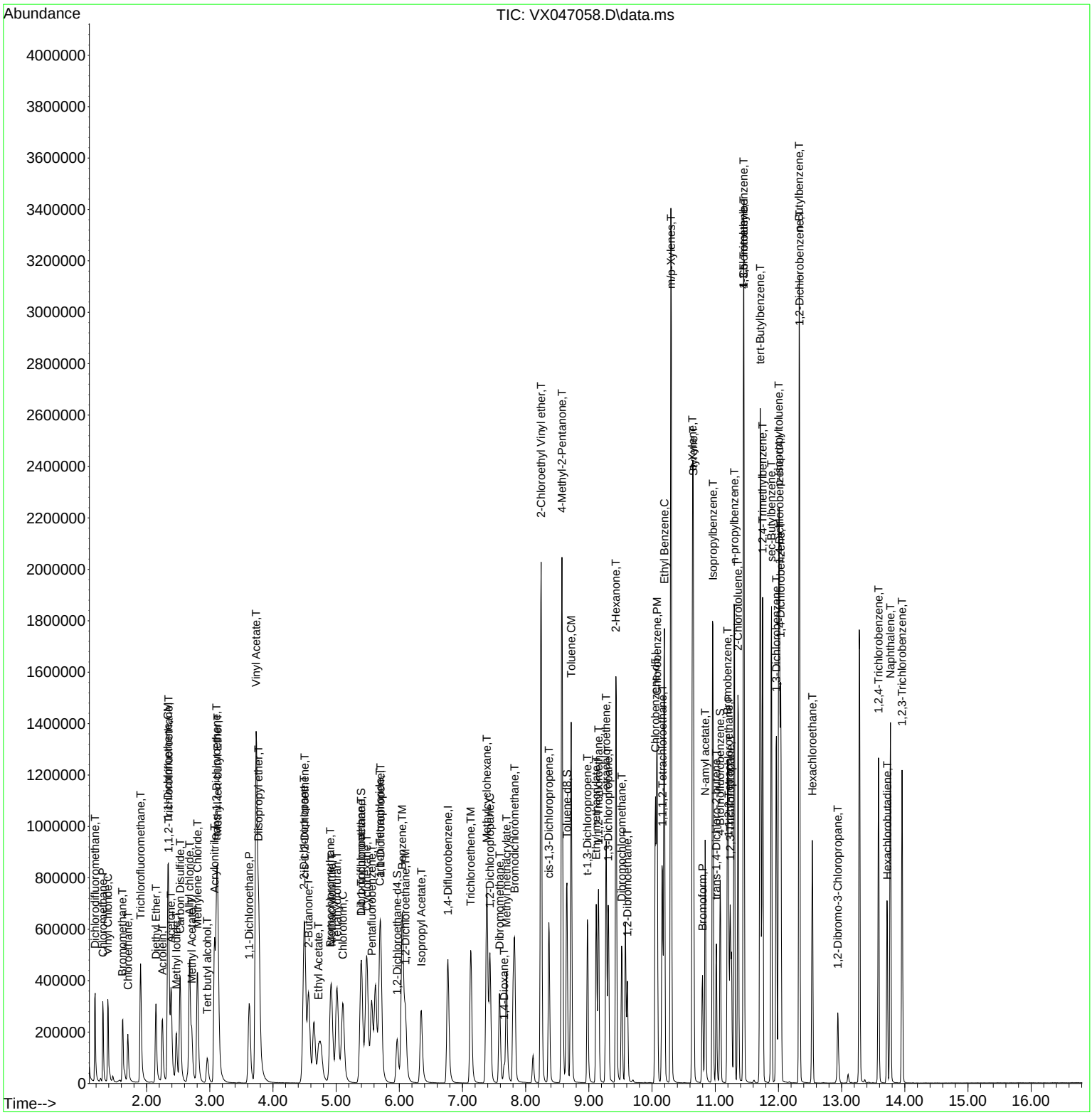
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

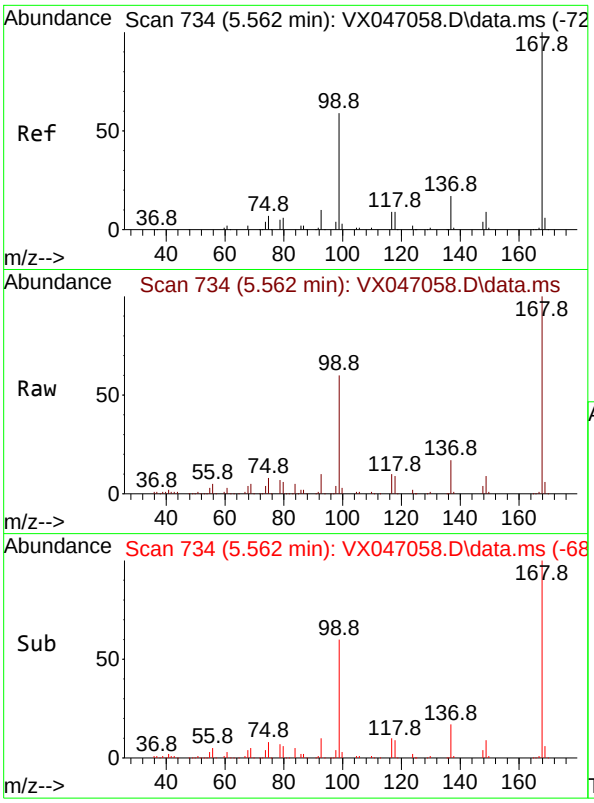
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047058.D
Acq On : 21 Jul 2025 10:50
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Jul 22 03:38:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration



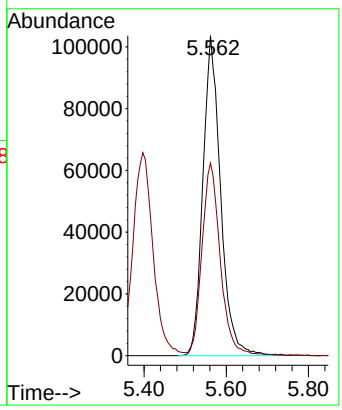


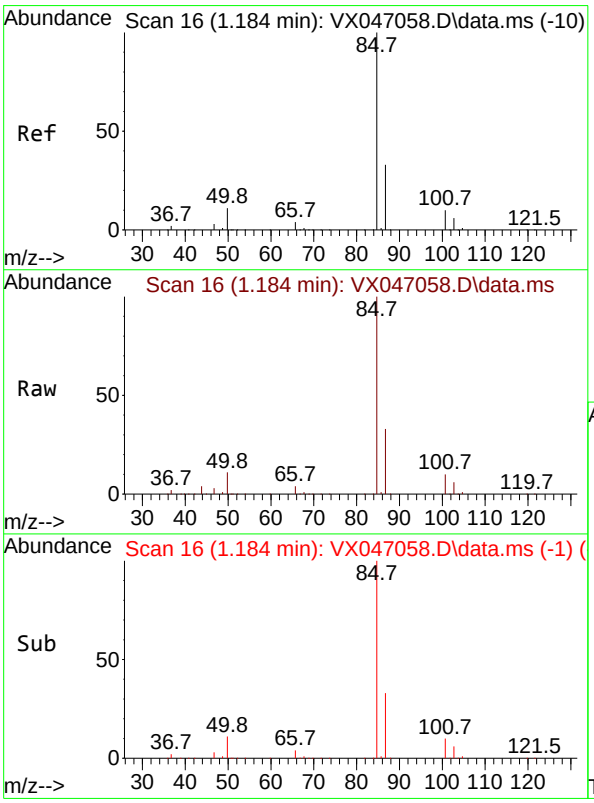
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 309883

Ion	Ratio	Lower	Upper
168	100		
99	60.0	48.0	72.0

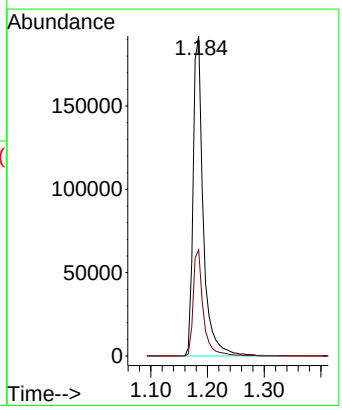


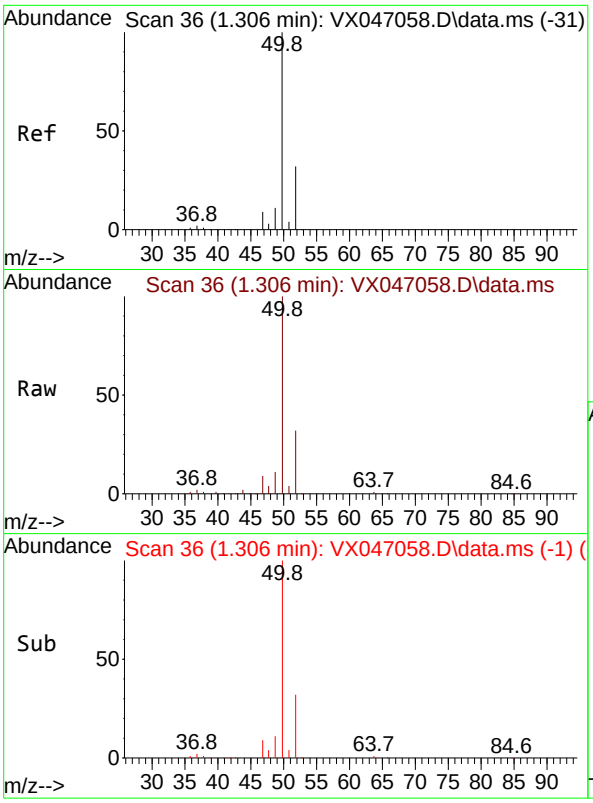


#2
Dichlorodifluoromethane
Concen: 57.844 ug/l
RT: 1.184 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 85 Resp: 238090

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.6	49.8



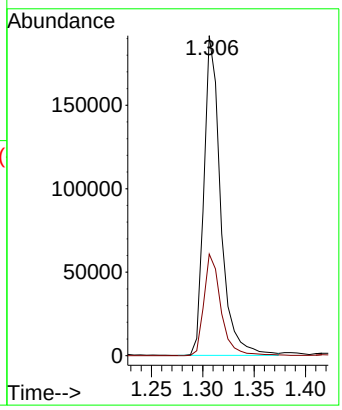


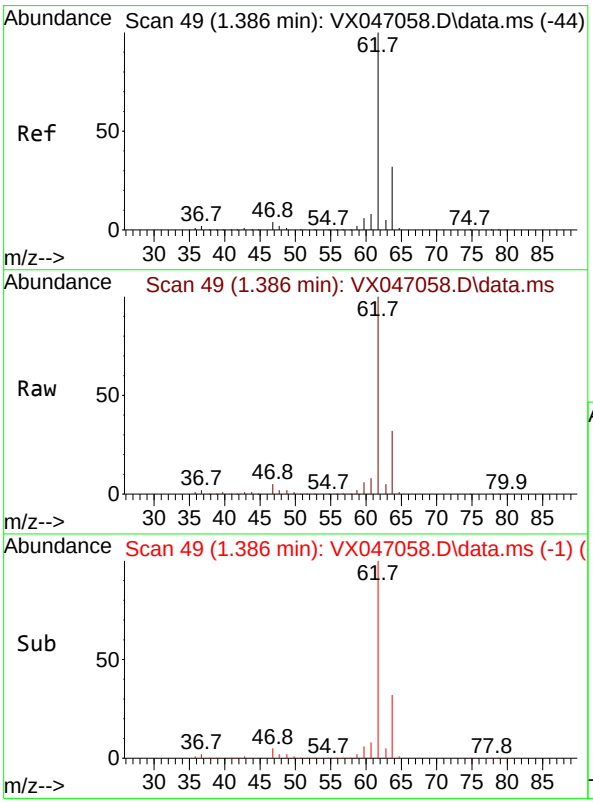
#3
Chloromethane
Concen: 53.219 ug/l
RT: 1.306 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 216682

Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.4	38.2

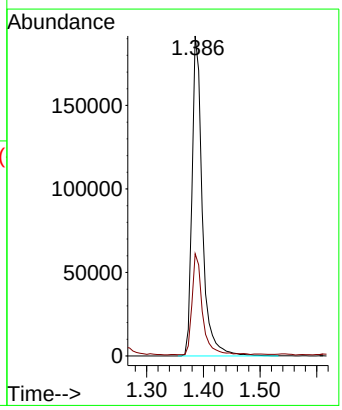


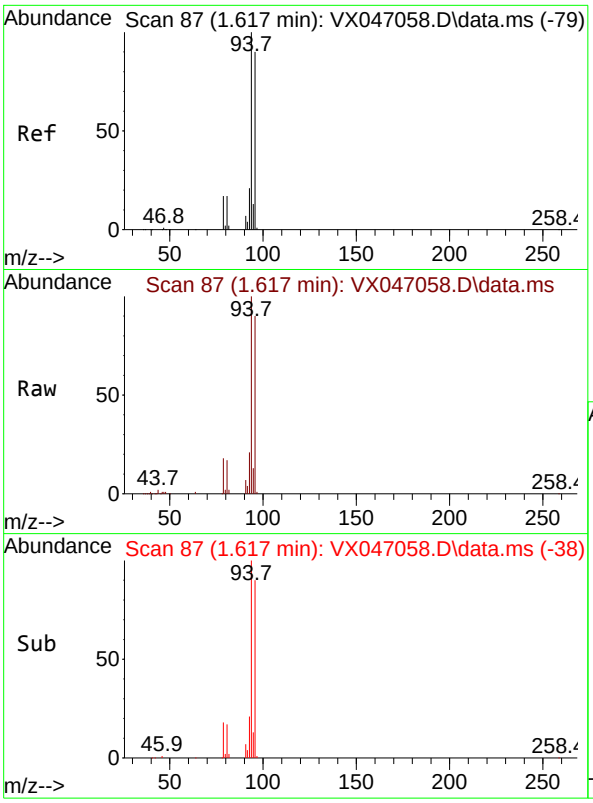


#4
Vinyl Chloride
Concen: 55.216 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 62 Resp: 241663

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.2	37.8



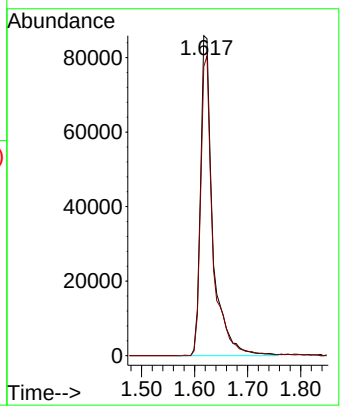


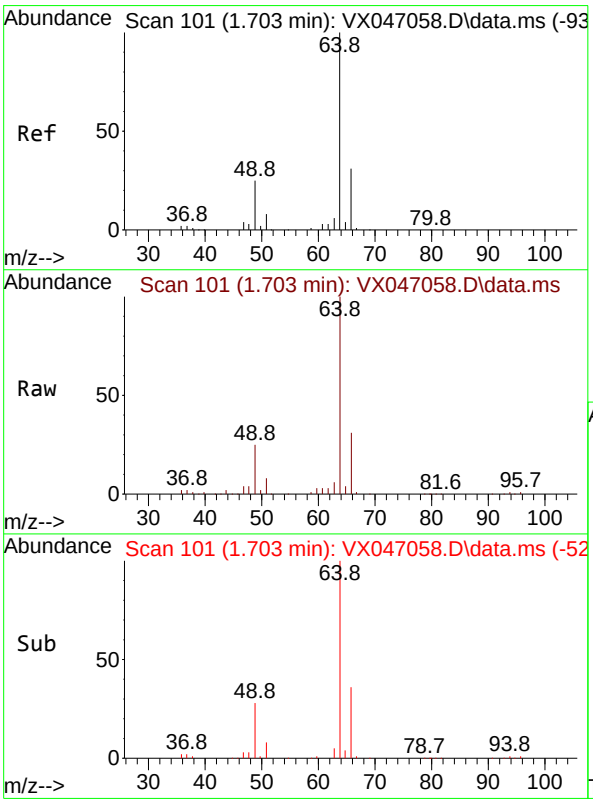
#5
Bromomethane
Concen: 58.354 ug/l
RT: 1.617 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 138734

Ion	Ratio	Lower	Upper
94	100		
96	90.4	72.3	108.5

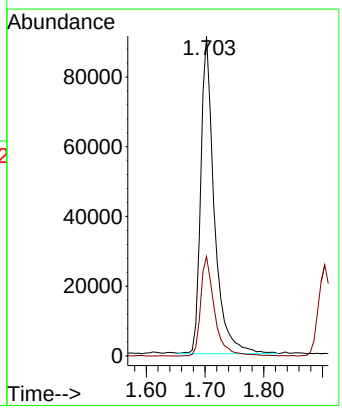


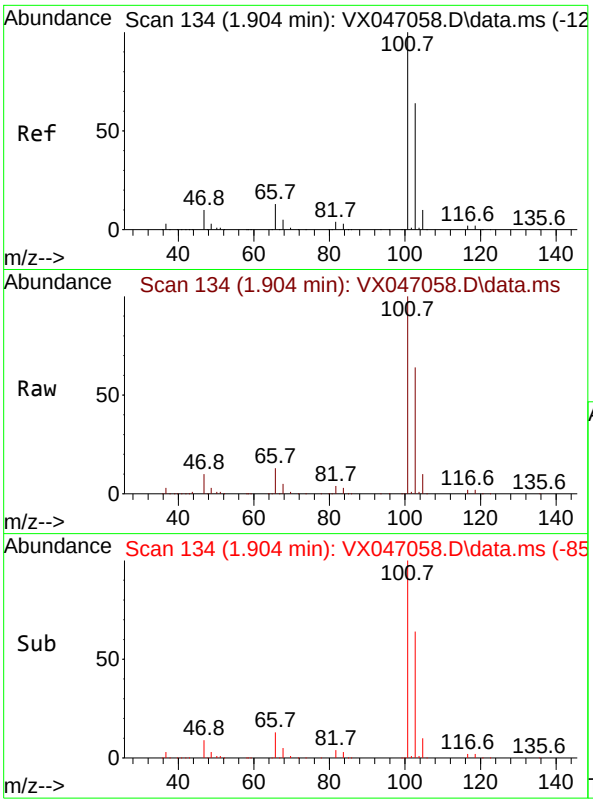


#6
Chloroethane
Concen: 50.714 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 64 Resp: 145779

Ion	Ratio	Lower	Upper
64	100		
66	31.3	25.0	37.6



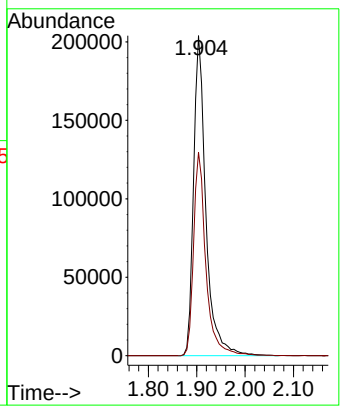


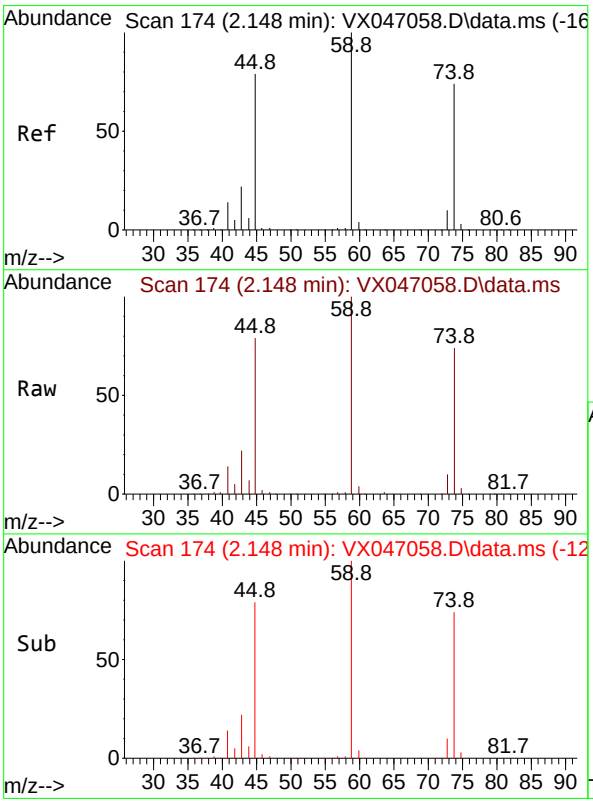
#7
Trichlorofluoromethane
Concen: 54.994 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 358904

Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.9	76.3

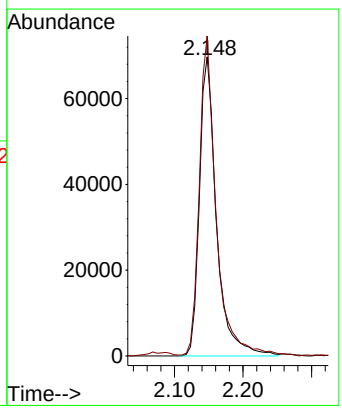


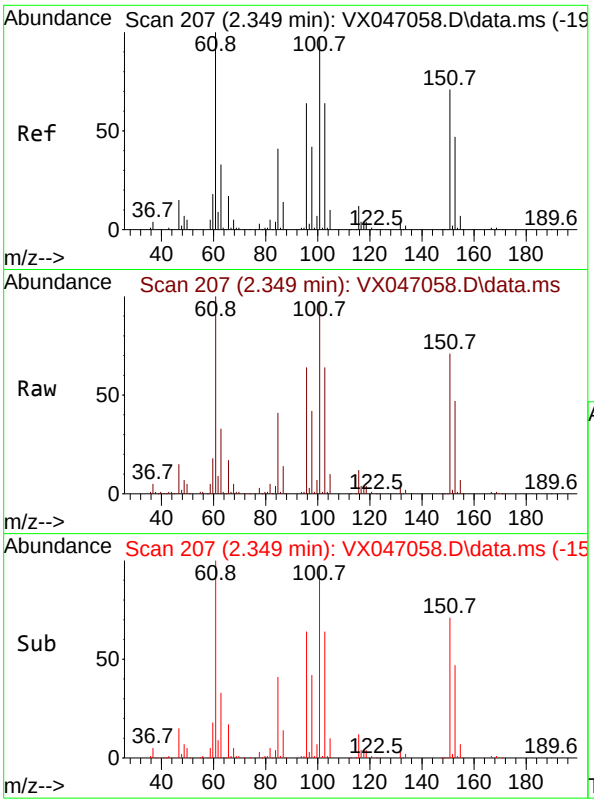


#8
Diethyl Ether
Concen: 52.535 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 74 Resp: 120887

Ion	Ratio	Lower	Upper
74	100		
45	106.0	53.0	159.0



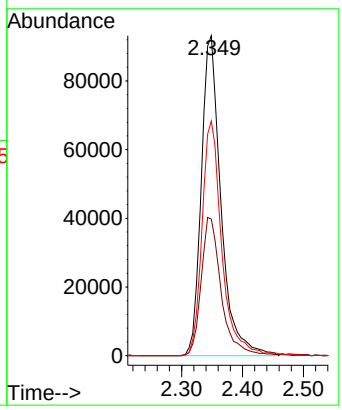


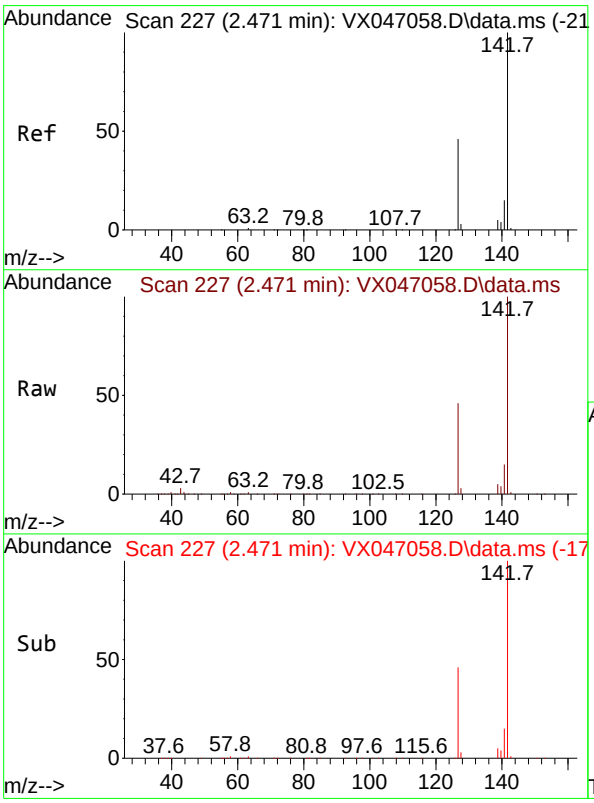
#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.194 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 209152

Ion	Ratio	Lower	Upper
101	100		
85	44.2	35.4	53.0
151	74.0	59.2	88.8

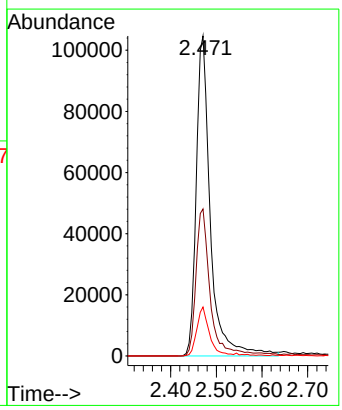


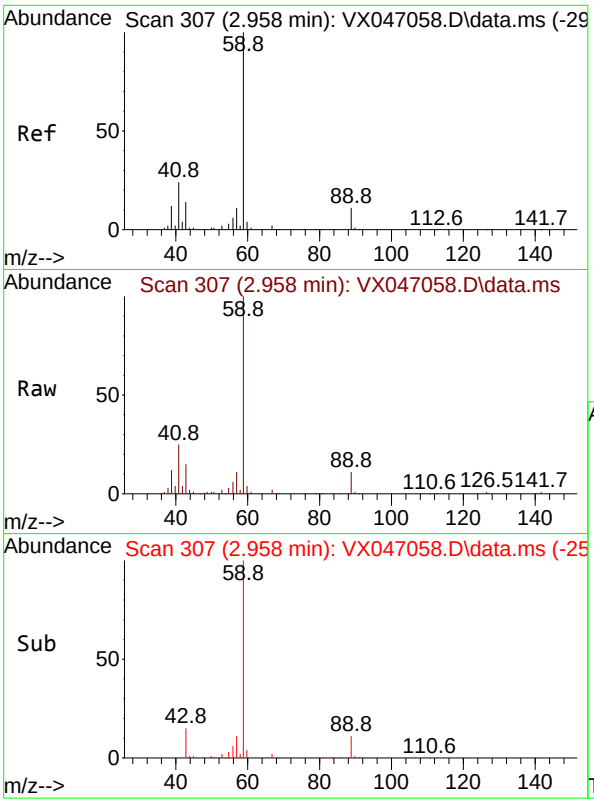


#10
Methyl Iodide
Concen: 56.237 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:142 Resp: 225356

Ion	Ratio	Lower	Upper
142	100		
127	45.7	36.6	54.8
141	13.6	10.9	16.3



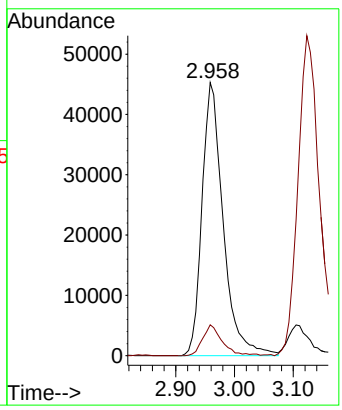


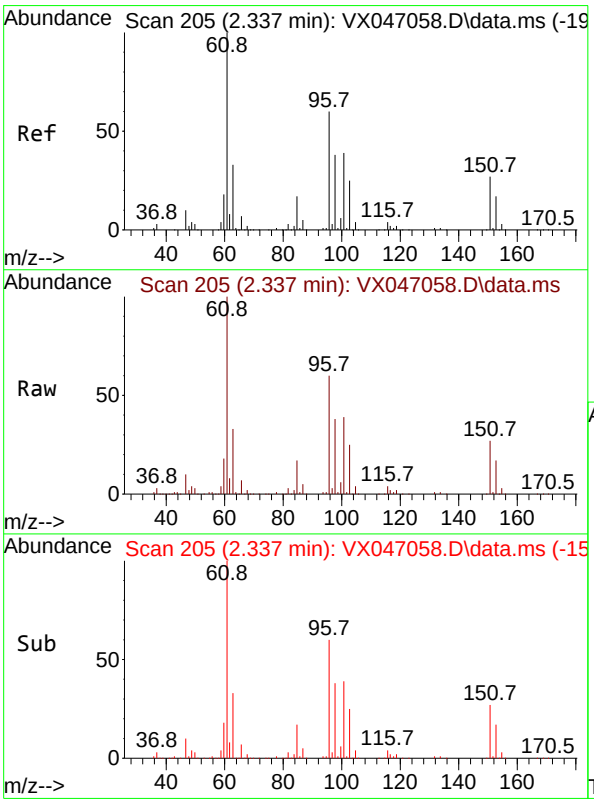
#11
Tert butyl alcohol
Concen: 251.629 ug/l
RT: 2.958 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 113517

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.5	12.7

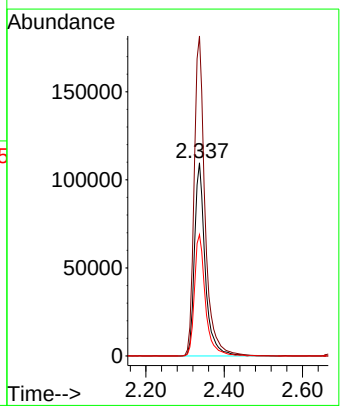


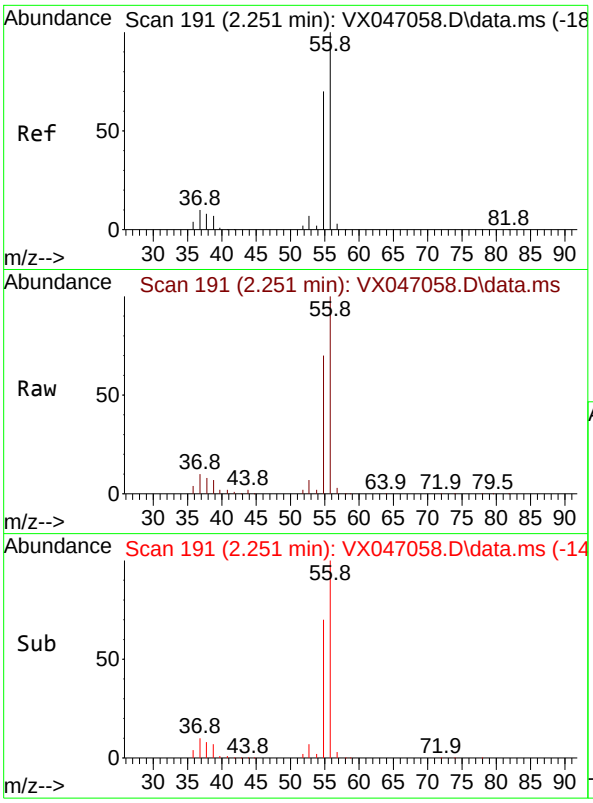


#12
1,1-Dichloroethene
Concen: 53.640 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 96 Resp: 208894

Ion	Ratio	Lower	Upper
96	100		
61	165.7	132.6	198.8
98	62.8	50.2	75.4



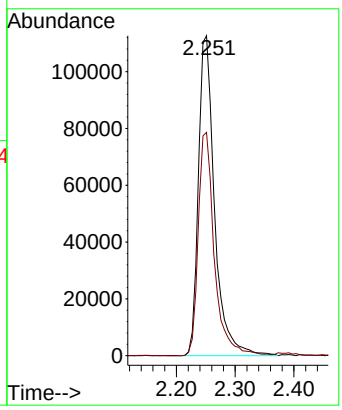


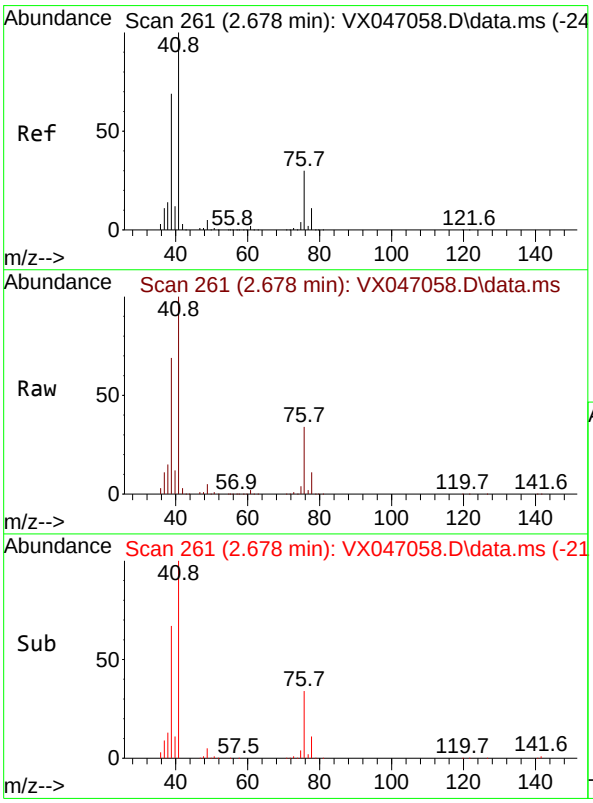
#13
Acrolein
Concen: 258.372 ug/l
RT: 2.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 214749

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.7	83.5

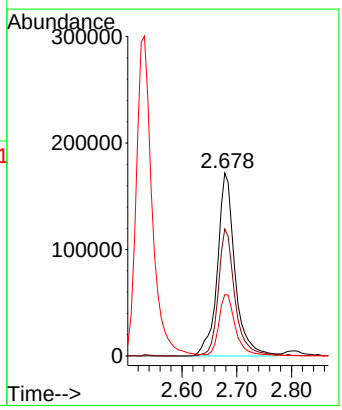


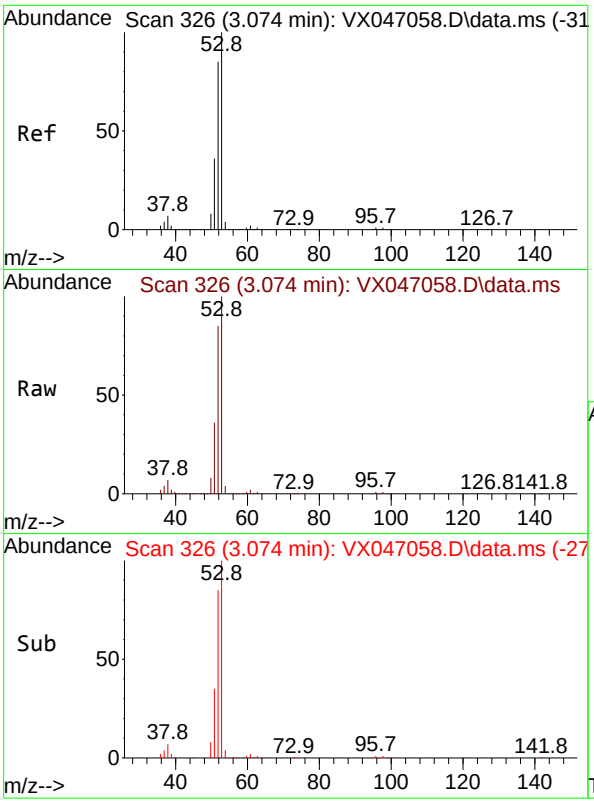


#14
Allyl chloride
Concen: 54.528 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 41 Resp: 383854

Ion	Ratio	Lower	Upper
41	100		
39	65.7	52.6	78.8
76	32.1	25.7	38.5



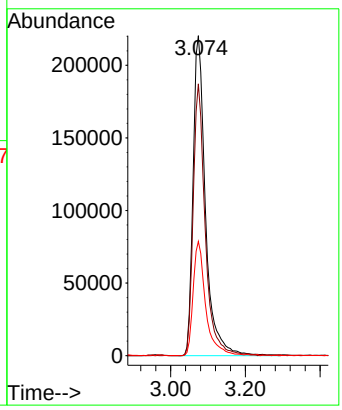


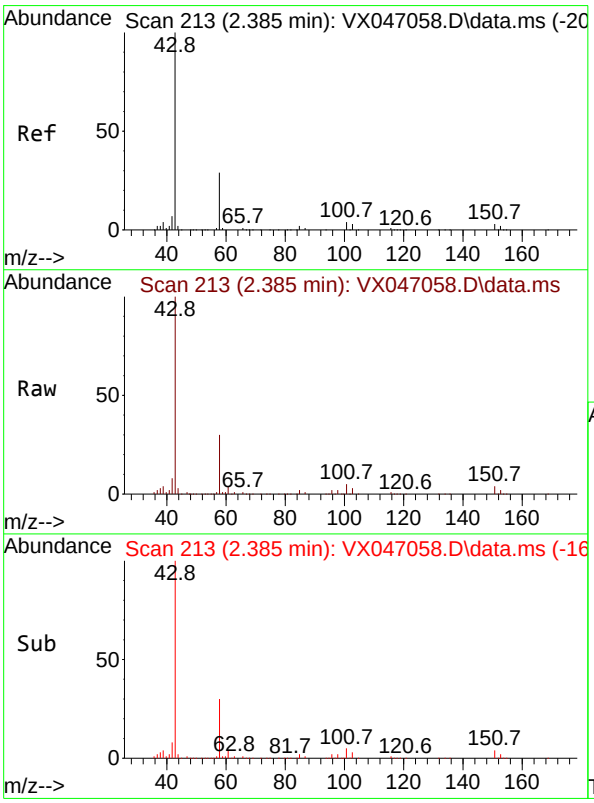
#15
Acrylonitrile
Concen: 277.051 ug/l
RT: 3.074 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 510056

Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.7	98.5
51	36.0	28.8	43.2

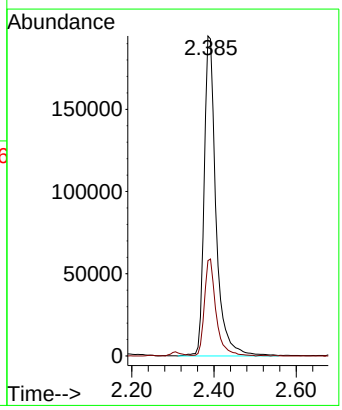


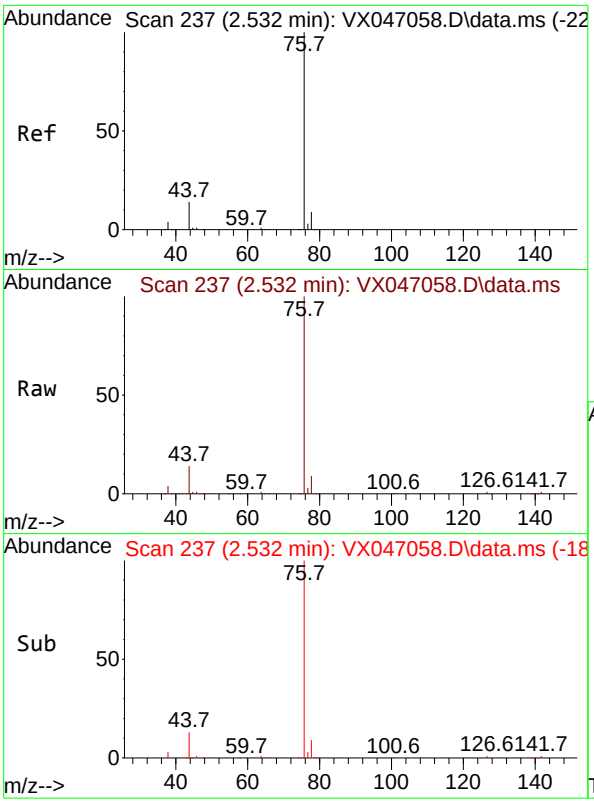


#16
Acetone
Concen: 252.239 ug/l
RT: 2.385 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 43 Resp: 390060

Ion	Ratio	Lower	Upper
43	100		
58	30.0	24.0	36.0



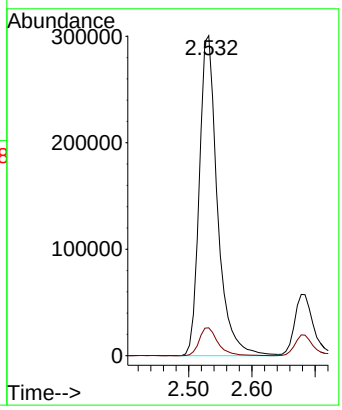


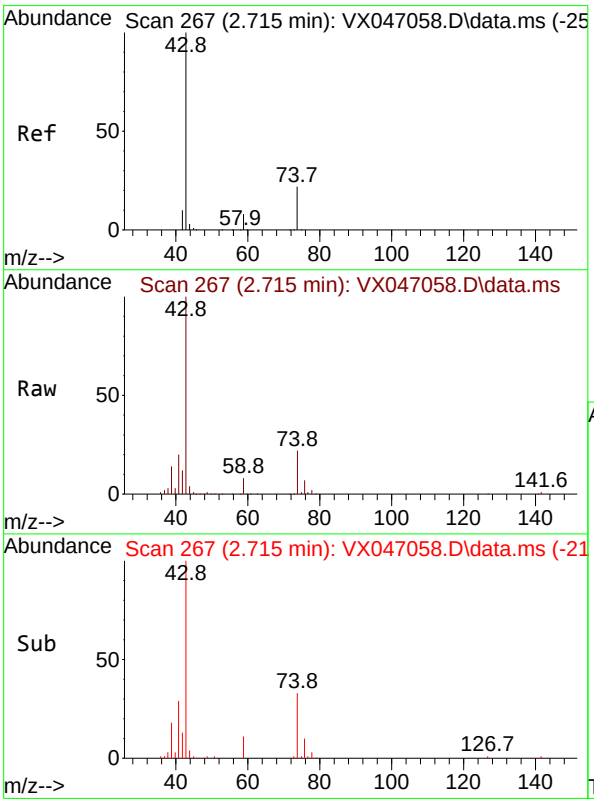
#17
Carbon Disulfide
Concen: 53.261 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 600045

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4

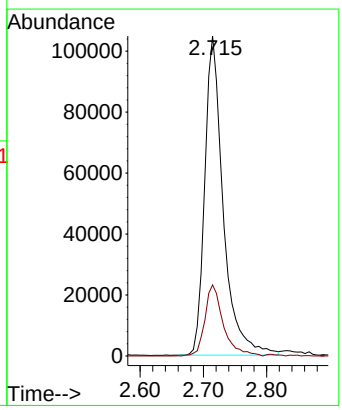


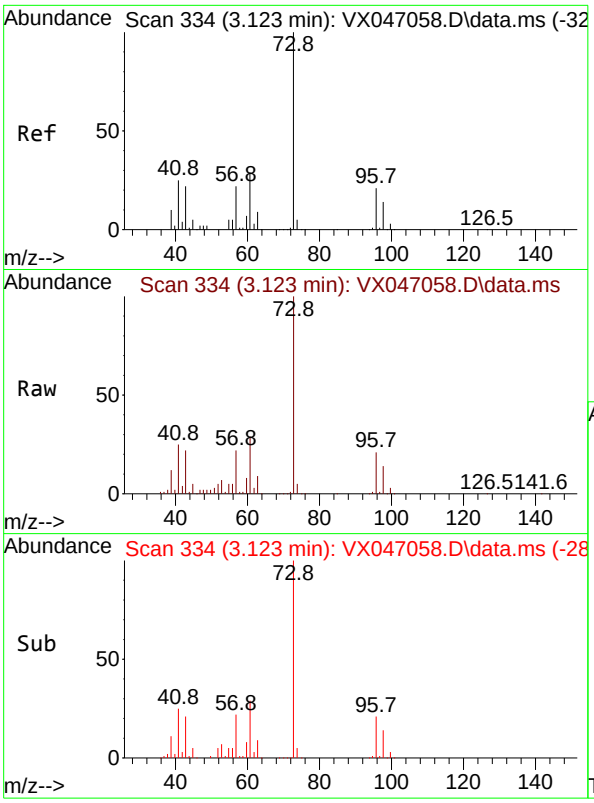


#18
Methyl Acetate
Concen: 51.848 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 43 Resp: 213070

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.7	26.5



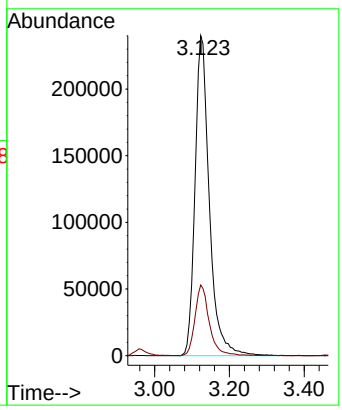


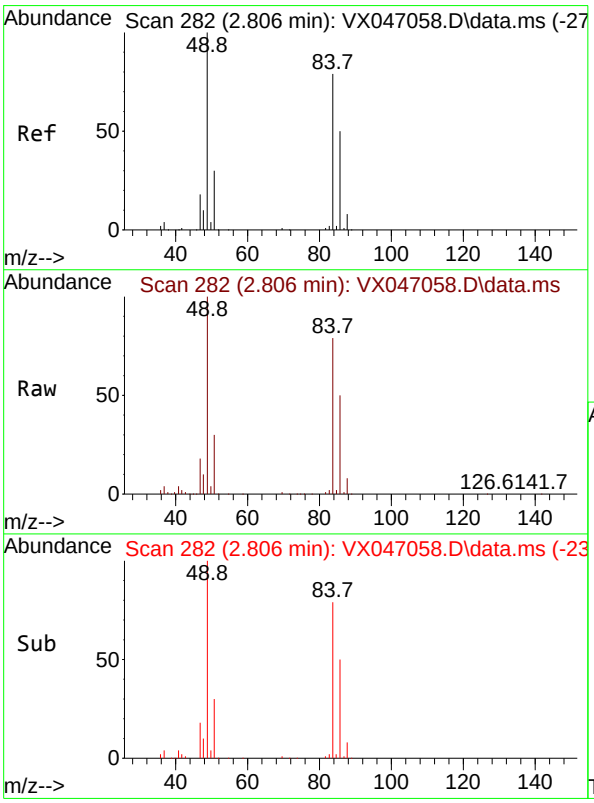
#19
Methyl tert-butyl Ether
Concen: 53.721 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 636699

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.7	26.5

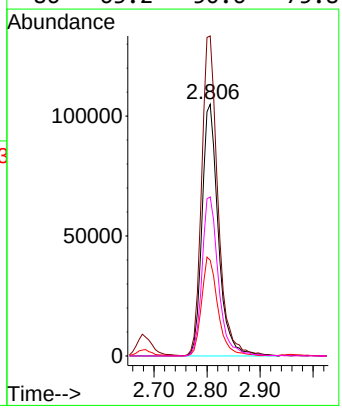


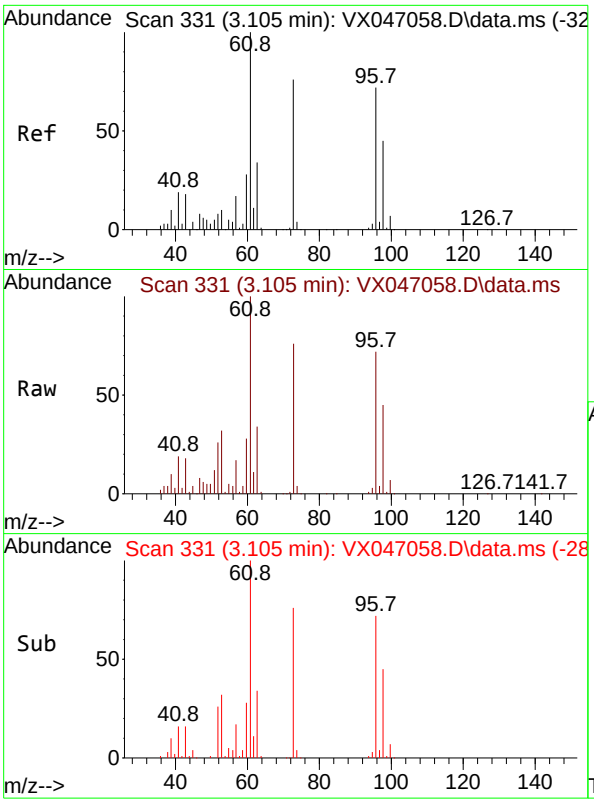


#20
Methylene Chloride
Concen: 52.585 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 84 Resp: 223713

Ion	Ratio	Lower	Upper
84	100		
49	127.0	101.6	152.4
51	37.9	30.3	45.5
86	63.2	50.6	75.8



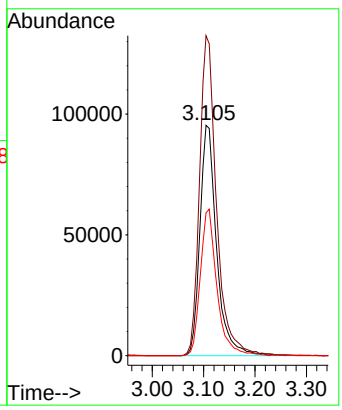


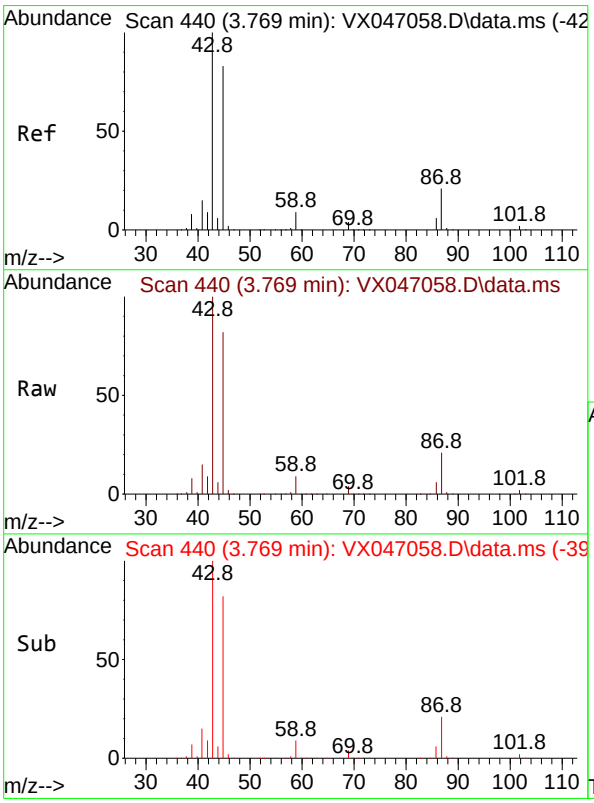
#21
trans-1,2-Dichloroethene
Concen: 54.049 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 215393

Ion	Ratio	Lower	Upper
96	100		
61	138.9	111.1	166.7
98	62.0	49.6	74.4

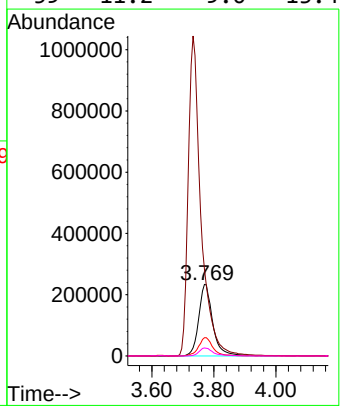


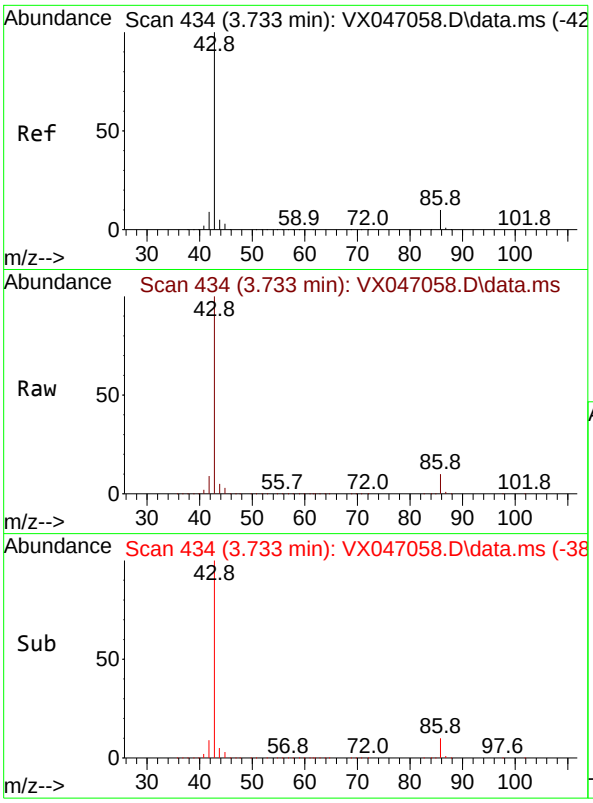


#22
Diisopropyl ether
Concen: 54.083 ug/l
RT: 3.769 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 45 Resp: 731970

Ion	Ratio	Lower	Upper
45	100		
43	121.0	96.8	145.2
87	25.6	20.5	30.7
59	11.2	9.0	13.4



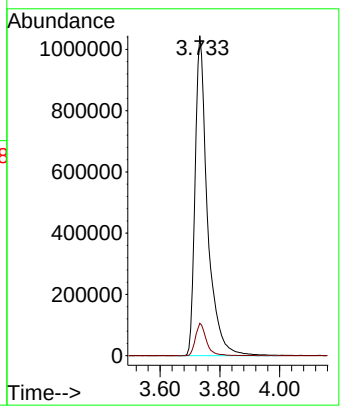


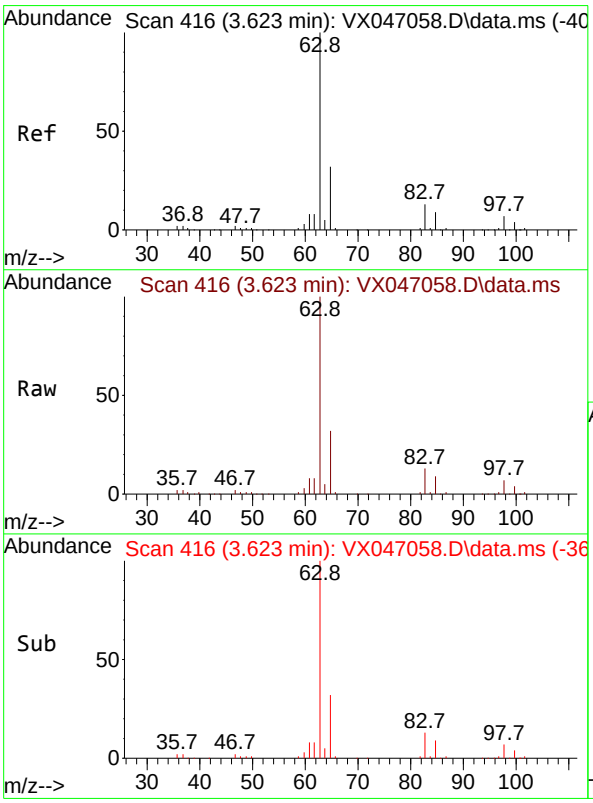
#23
Vinyl Acetate
Concen: 276.847 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 3005277

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

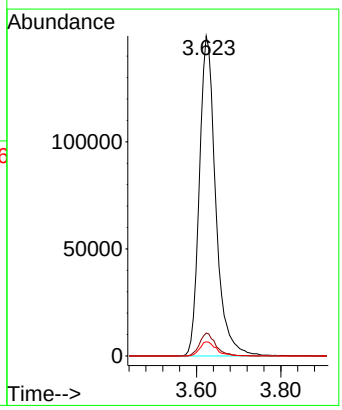


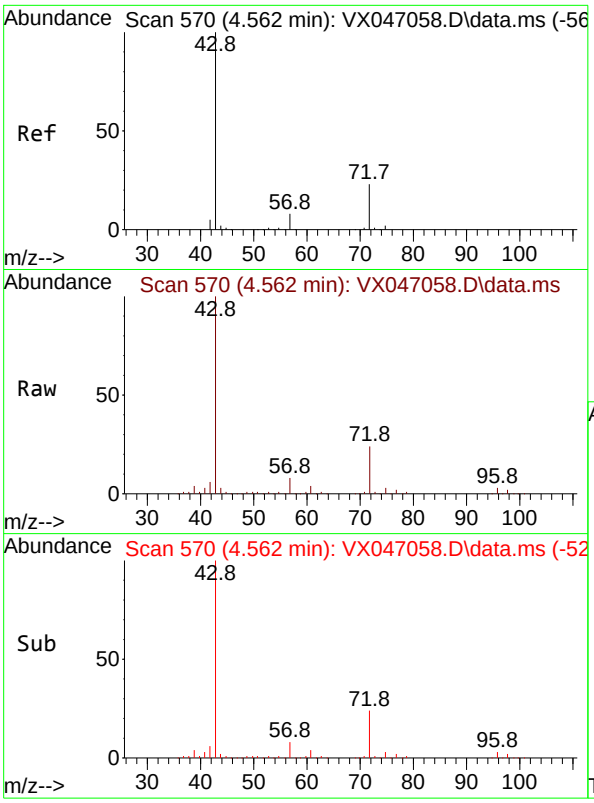


#24
1,1-Dichloroethane
Concen: 53.522 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 63 Resp: 402810

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	4.5	2.3	6.8



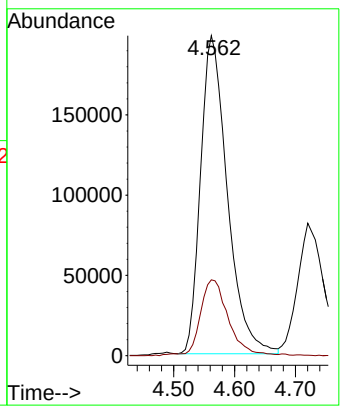


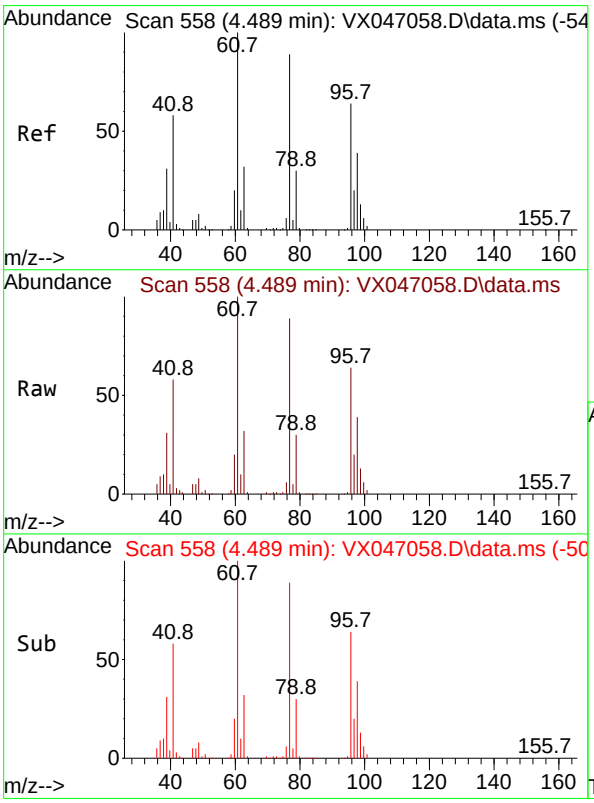
#25
2-Butanone
Concen: 268.961 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 605614

Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.8	28.2

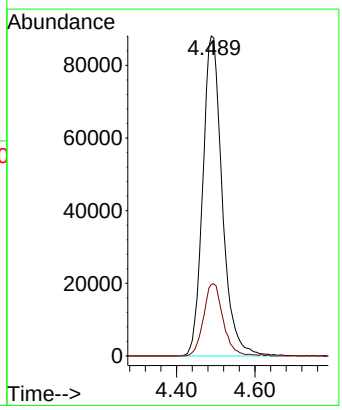


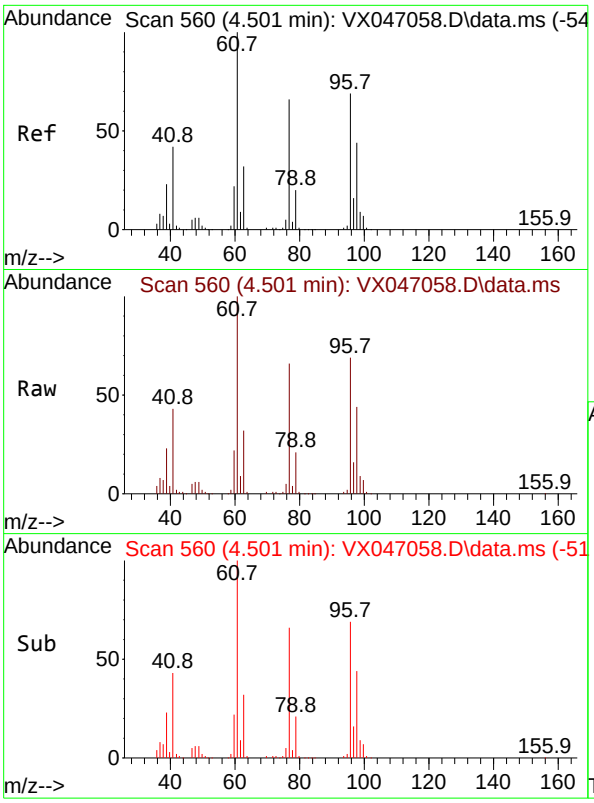


#26
2,2-Dichloropropane
Concen: 52.081 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 77 Resp: 303417

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.4	34.1



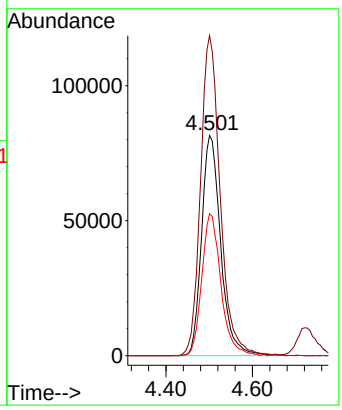


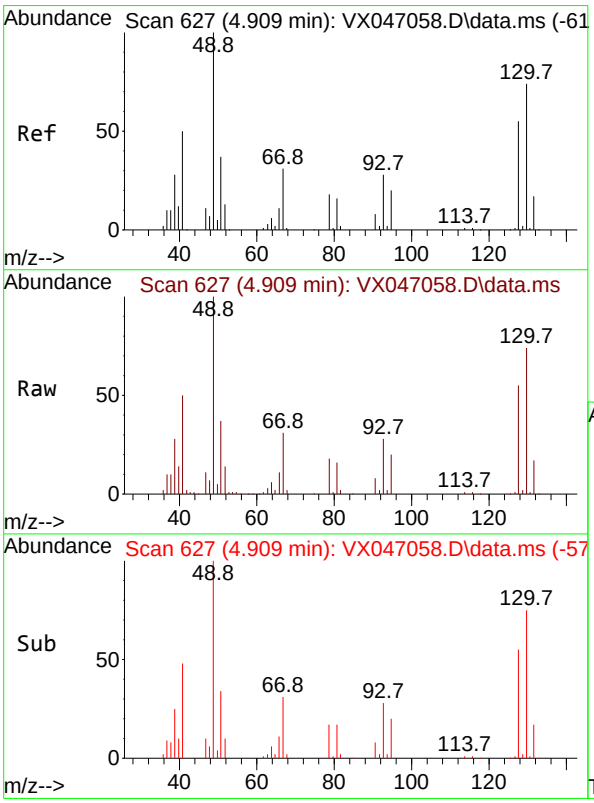
#27
cis-1,2-Dichloroethene
Concen: 53.001 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 250112

Ion	Ratio	Lower	Upper
96	100		
61	149.3	0.0	298.6
98	64.4	0.0	128.8

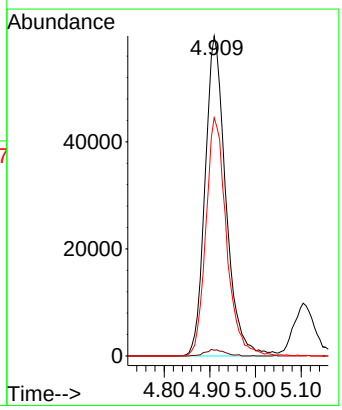


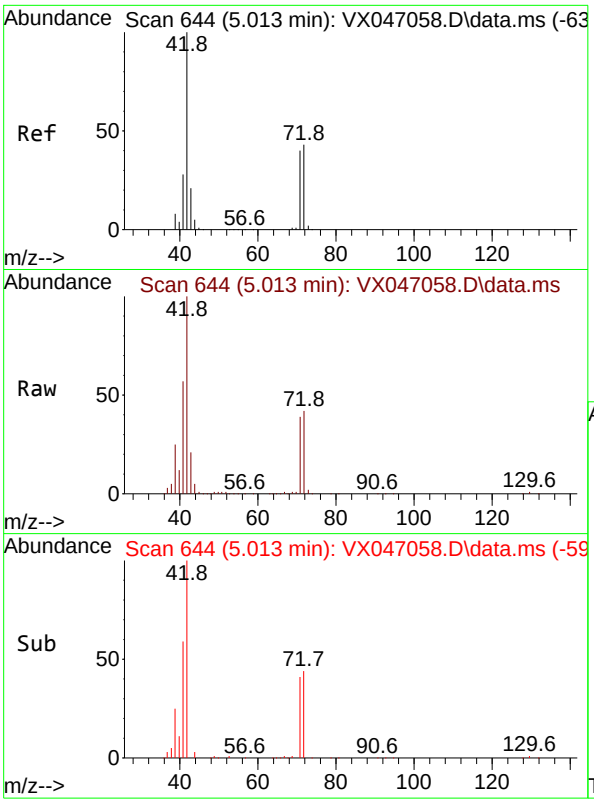


#28
Bromochloromethane
Concen: 54.536 ug/l
RT: 4.909 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 49 Resp: 188828

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	73.7	59.0	88.4



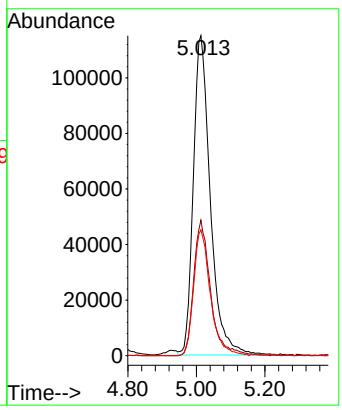


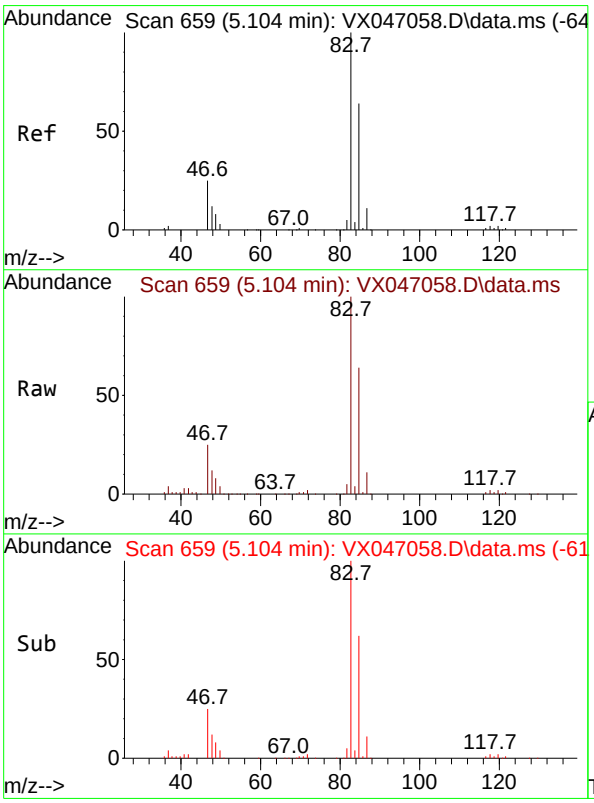
#29
Tetrahydrofuran
Concen: 273.532 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 397391

Ion	Ratio	Lower	Upper
42	100		
72	42.1	33.7	50.5
71	38.7	31.0	46.4

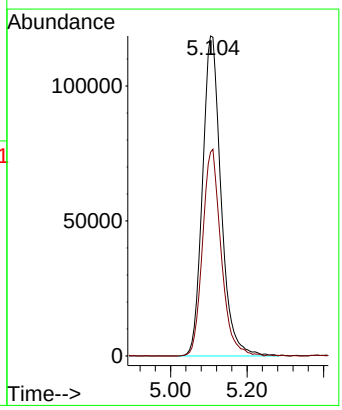


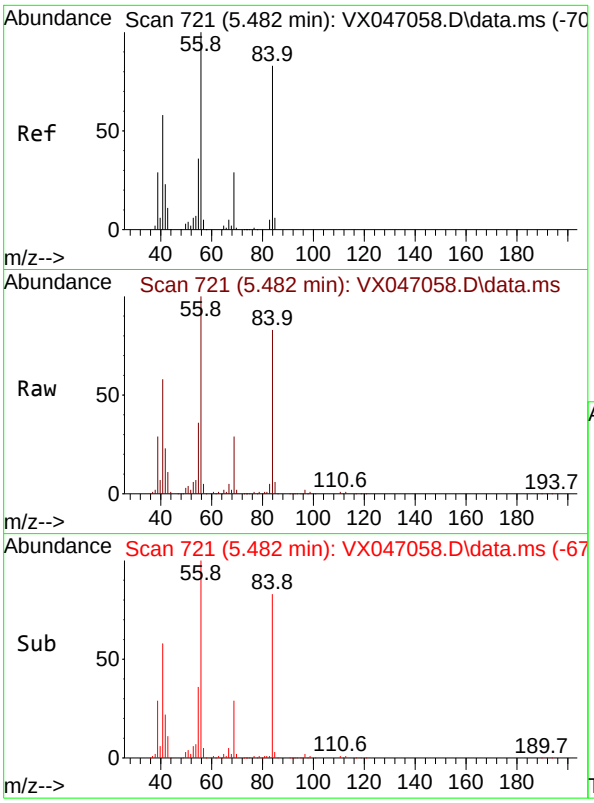


#30
Chloroform
Concen: 52.141 ug/l
RT: 5.104 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 83 Resp: 399454

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3



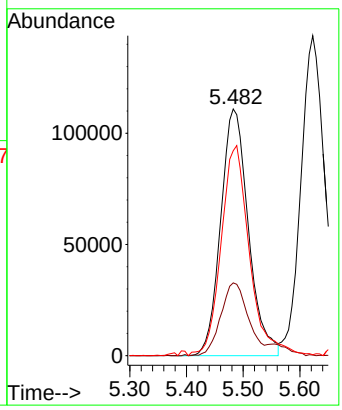


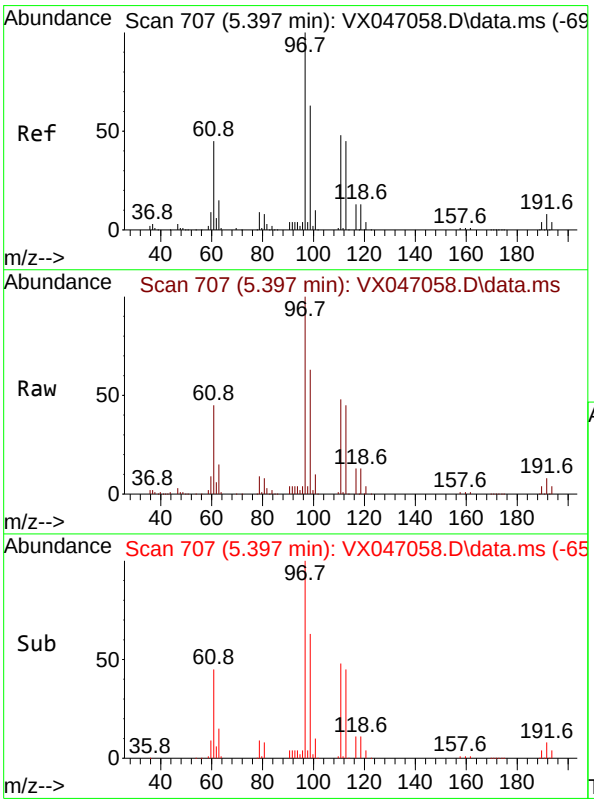
#31
Cyclohexane
Concen: 52.159 ug/l
RT: 5.482 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 376396

Ion	Ratio	Lower	Upper
56	100		
69	29.1	23.3	34.9
84	83.1	66.5	99.7

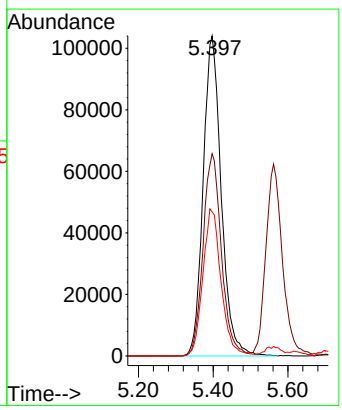


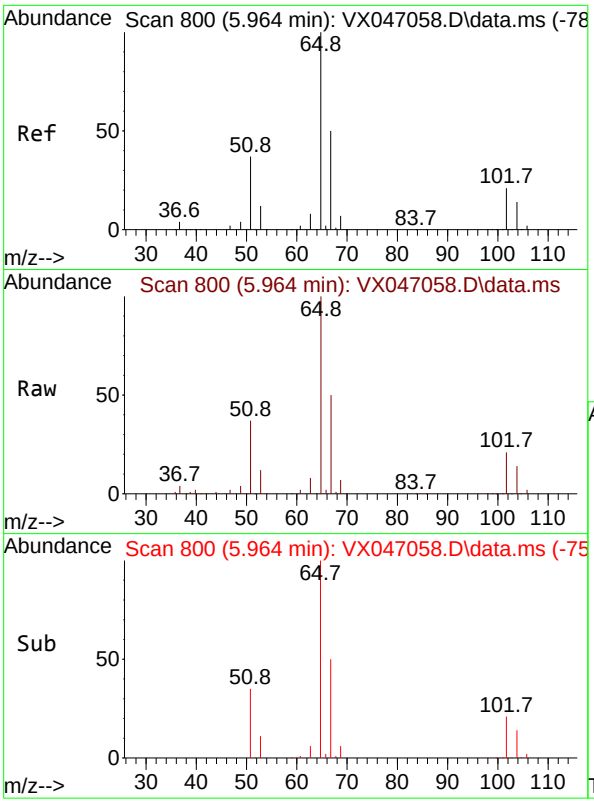


#32
1,1,1-Trichloroethane
Concen: 52.462 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 97 Resp: 349090

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.2	76.8
61	46.4	37.1	55.7



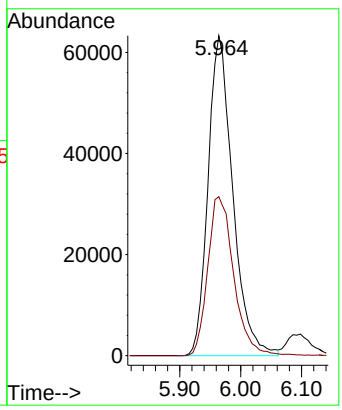


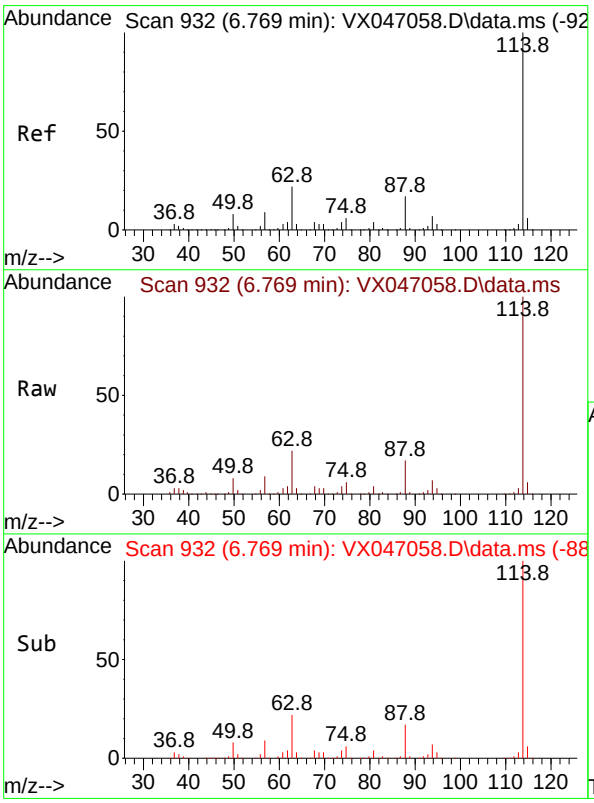
#33
1,2-Dichloroethane-d4
Concen: 46.193 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 178313

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	104.8

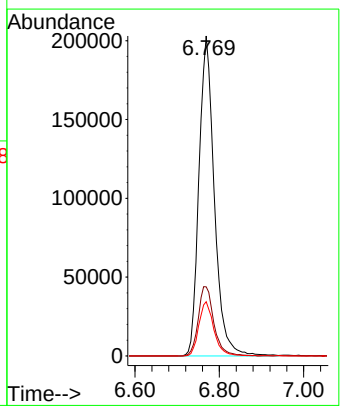


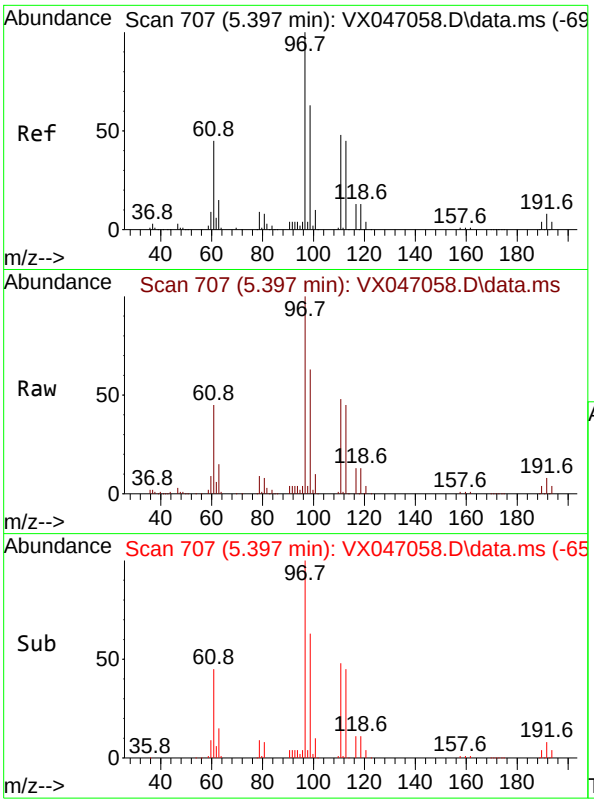


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:114 Resp: 516282

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	43.2
88	16.9	0.0	33.8



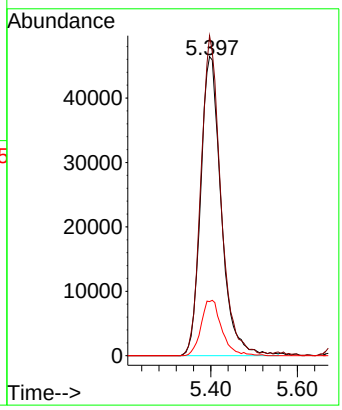


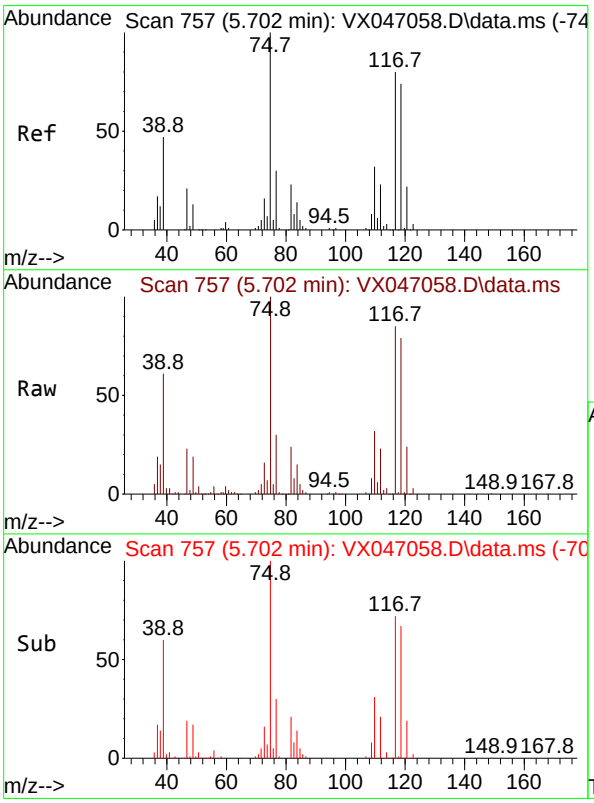
#35
Dibromofluoromethane
Concen: 47.918 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 152747

Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.6	124.0
192	18.6	14.9	22.3

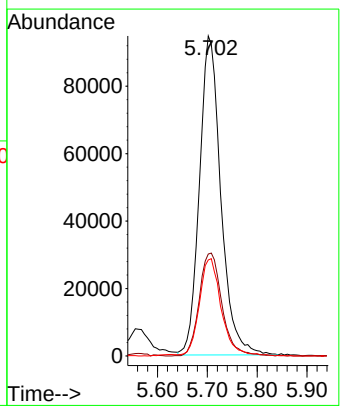


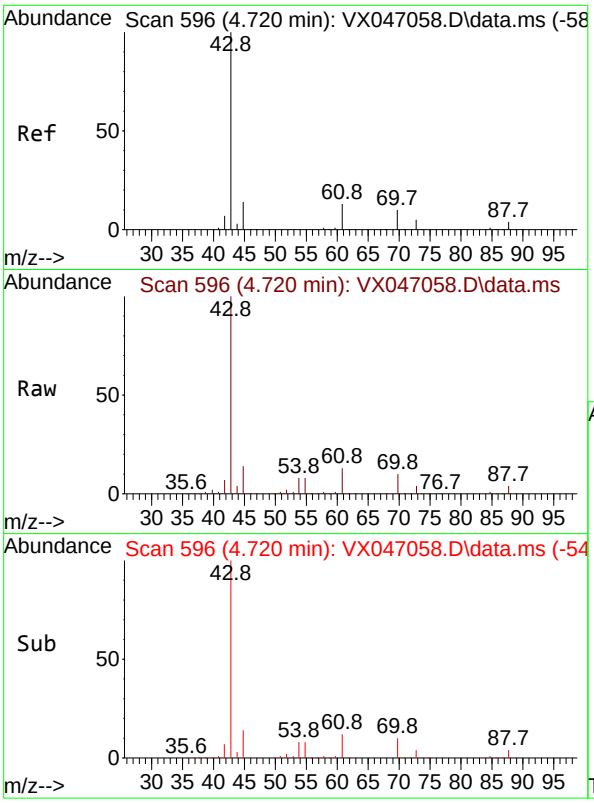


#36
1,1-Dichloropropene
Concen: 51.926 ug/l
RT: 5.702 min Scan# 757
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 75 Resp: 282151

Ion	Ratio	Lower	Upper
75	100		
110	34.3	17.2	51.5
77	31.4	25.1	37.7



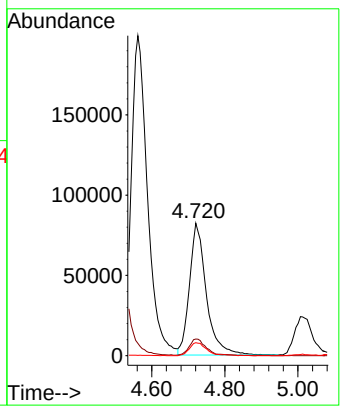


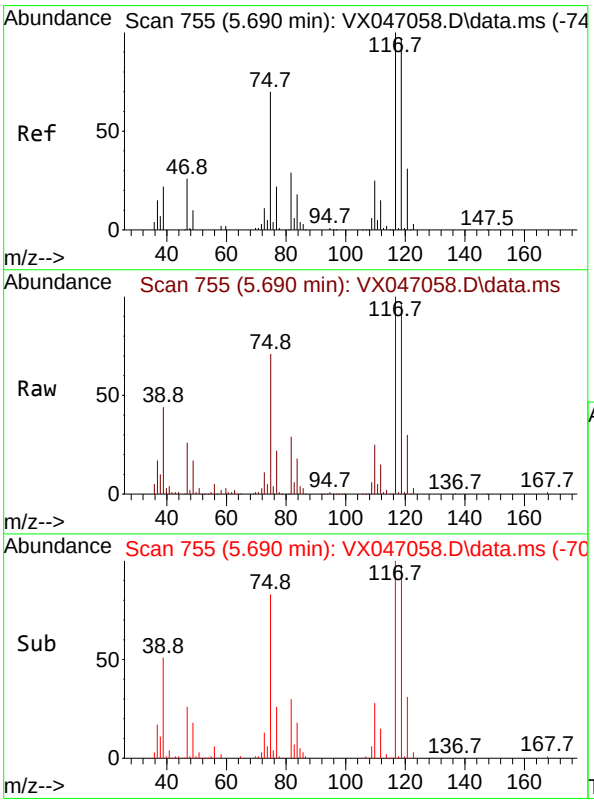
#37
Ethyl Acetate
Concen: 55.103 ug/l
RT: 4.720 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 263866

Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.2	15.2
70	10.1	8.1	12.1

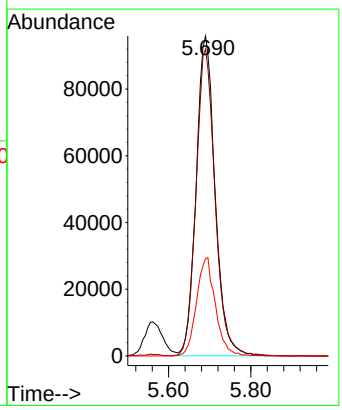


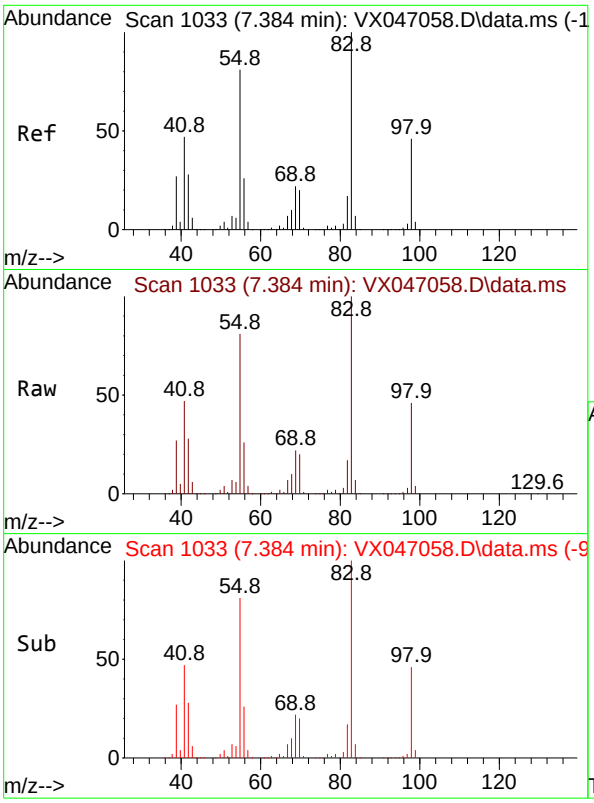


#38
Carbon Tetrachloride
Concen: 52.934 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:117 Resp: 306989

Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.6	115.0
121	30.5	24.4	36.6



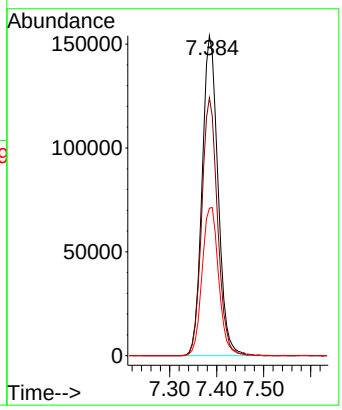


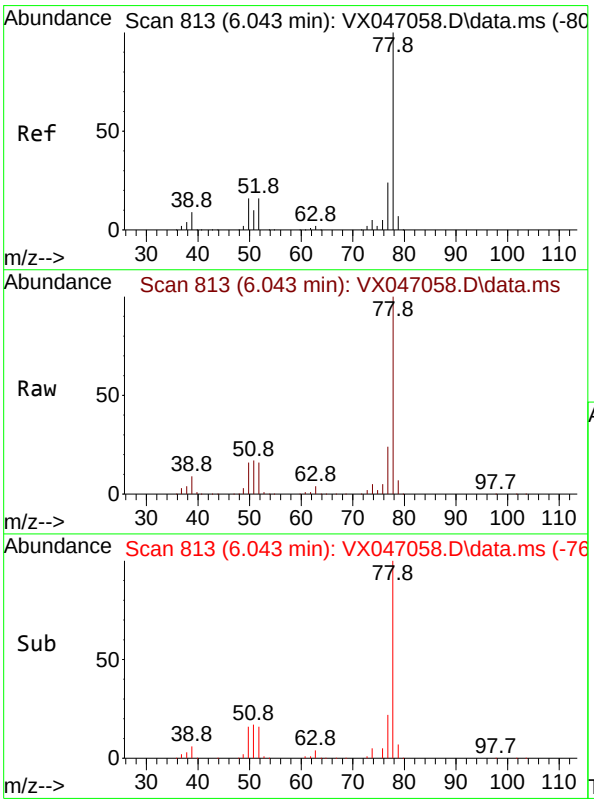
#39
Methylcyclohexane
Concen: 53.168 ug/l
RT: 7.384 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 360702

Ion	Ratio	Lower	Upper
83	100		
55	80.6	64.5	96.7
98	46.1	36.9	55.3

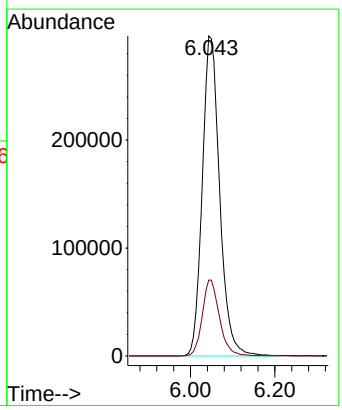


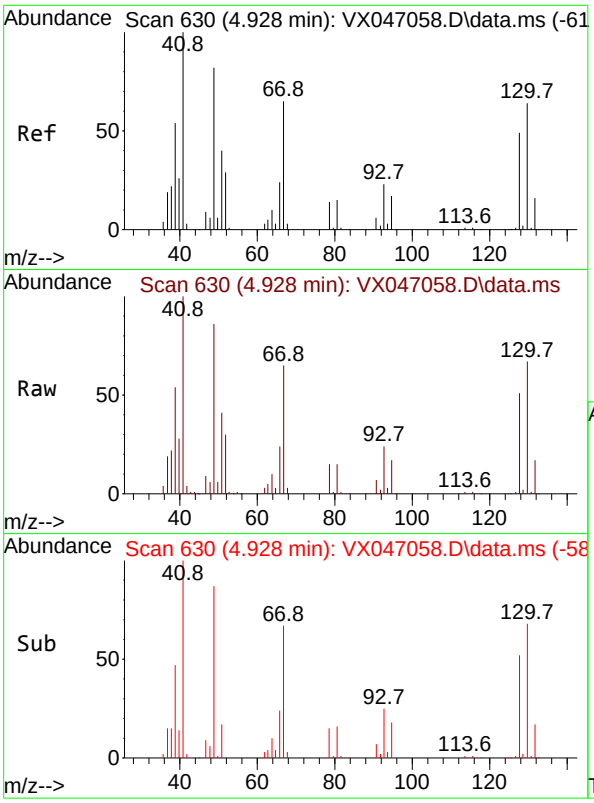


#40
Benzene
Concen: 54.180 ug/l
RT: 6.043 min Scan# 813
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 78 Resp: 851995

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4



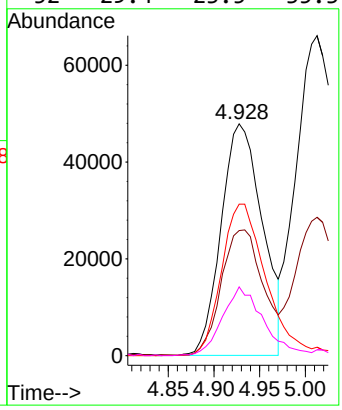


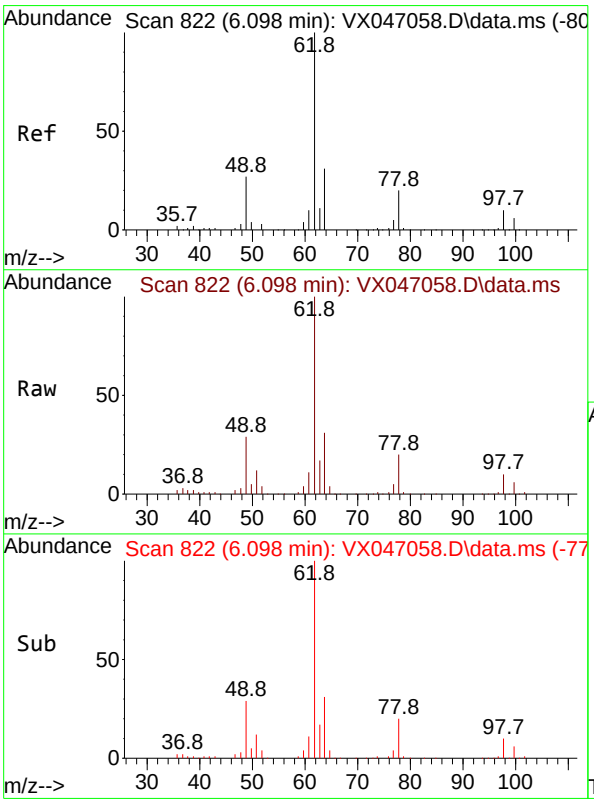
#41
Methacrylonitrile
Concen: 57.494 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 150516

Ion	Ratio	Lower	Upper
41	100		
39	55.2	44.2	66.2
67	70.5	56.4	84.6
52	29.4	23.5	35.3

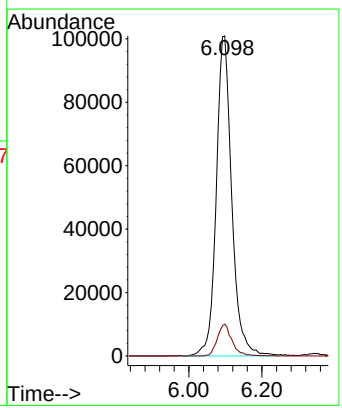


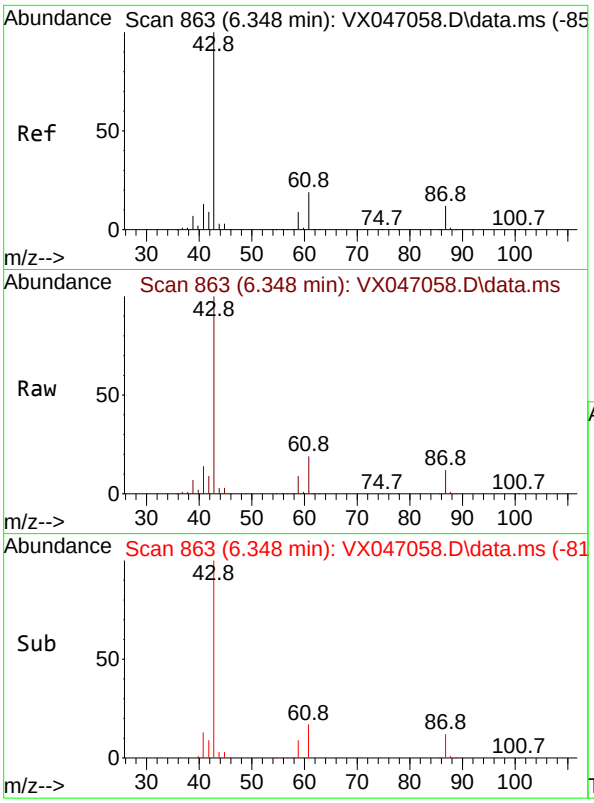


#42
1,2-Dichloroethane
Concen: 53.686 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 62 Resp: 297385

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.8



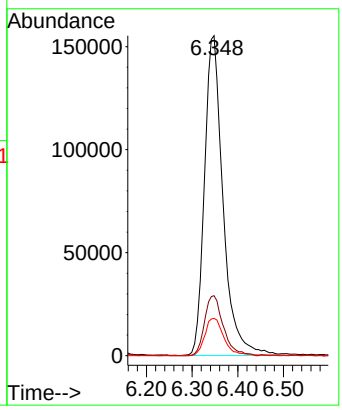


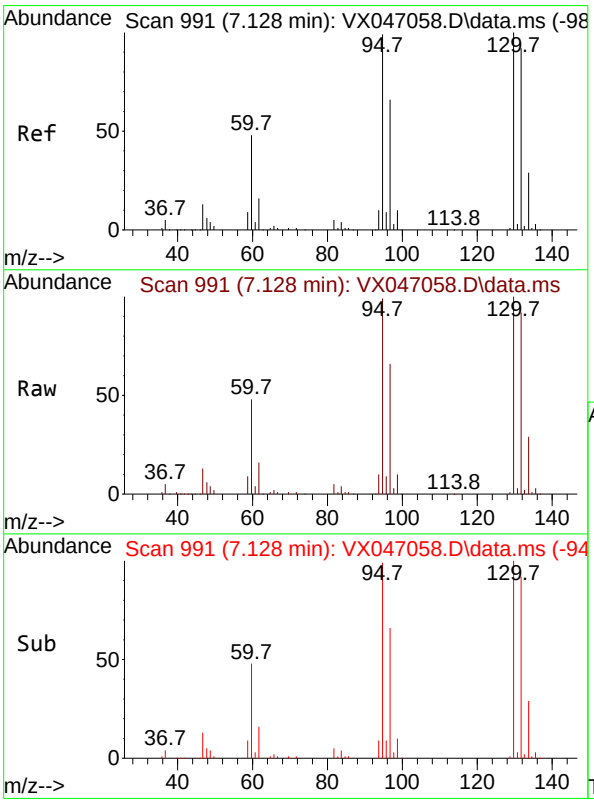
#43
Isopropyl Acetate
Concen: 56.192 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 438617

Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.1	22.7
87	12.1	9.7	14.5

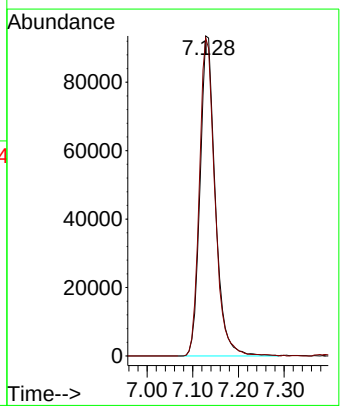


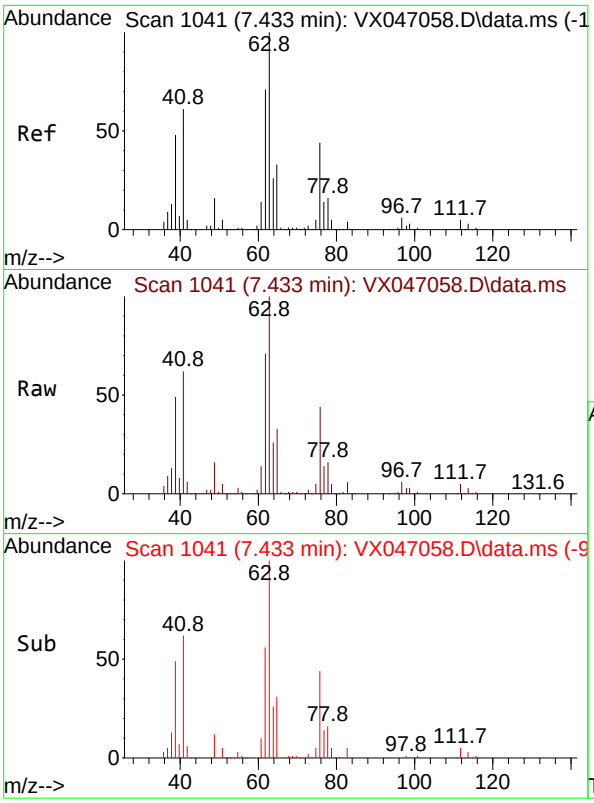


#44
Trichloroethene
Concen: 53.751 ug/l
RT: 7.128 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:130 Resp: 216747

Ion	Ratio	Lower	Upper
130	100		
95	99.3	0.0	198.6



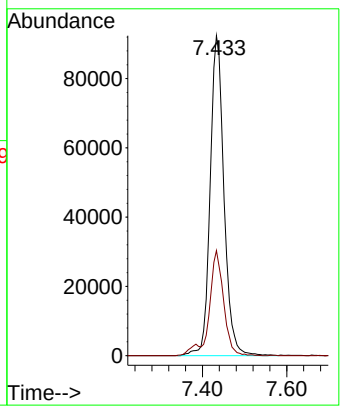


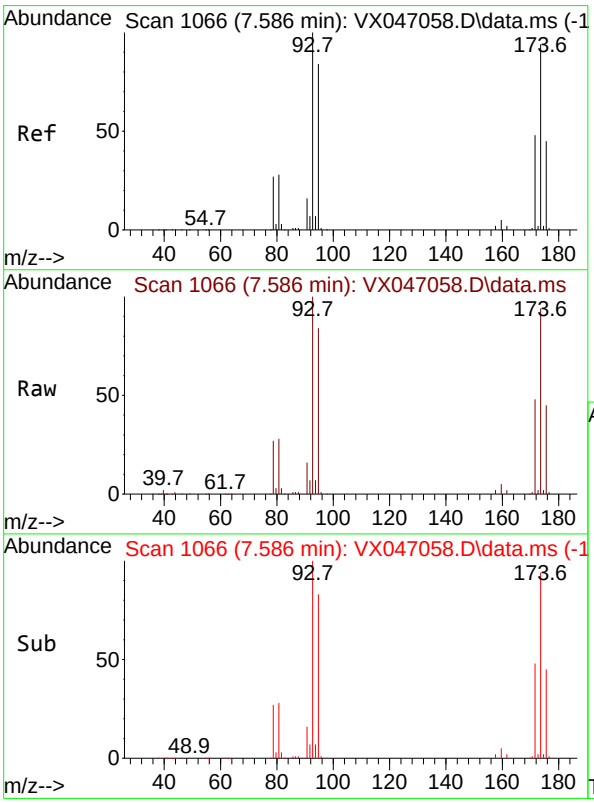
#45
1,2-Dichloropropane
Concen: 53.539 ug/l
RT: 7.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 210862

Ion	Ratio	Lower	Upper
63	100		
65	32.9	26.3	39.5

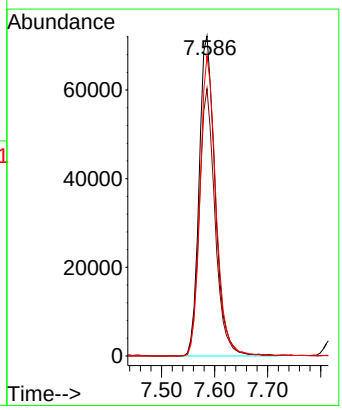


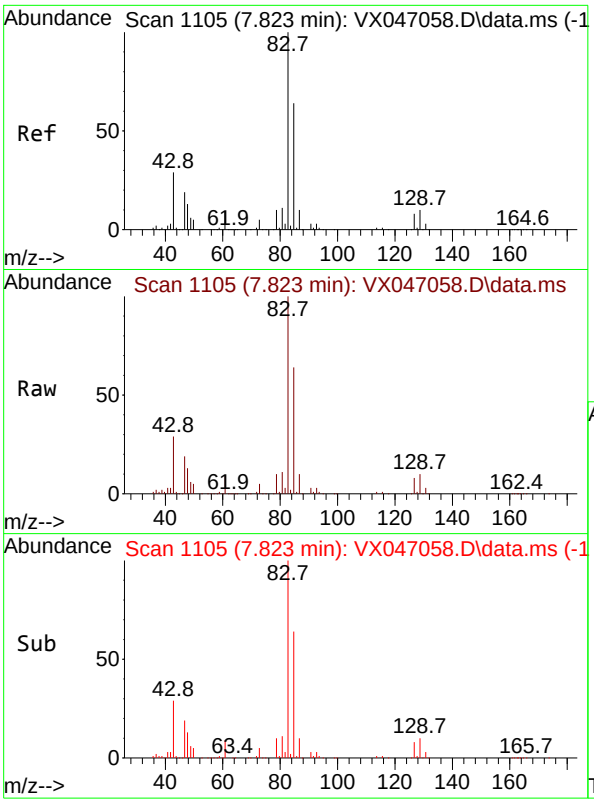


#46
Dibromomethane
Concen: 54.916 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 93 Resp: 151672

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.9	98.9
174	93.3	74.6	112.0



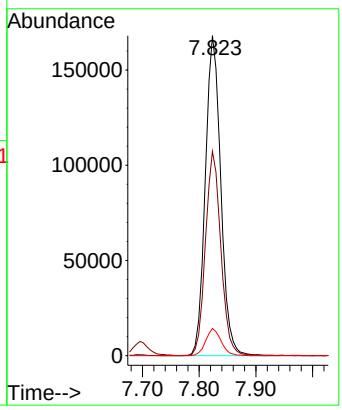


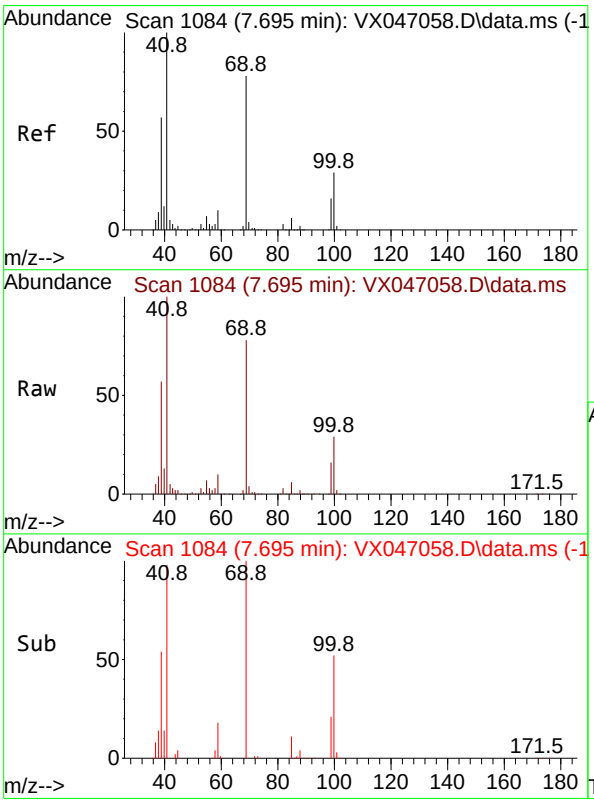
#47
Bromodichloromethane
Concen: 54.225 ug/l
RT: 7.823 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 318771

Ion	Ratio	Lower	Upper
83	100		
85	62.4	49.9	74.9
127	8.3	6.6	10.0

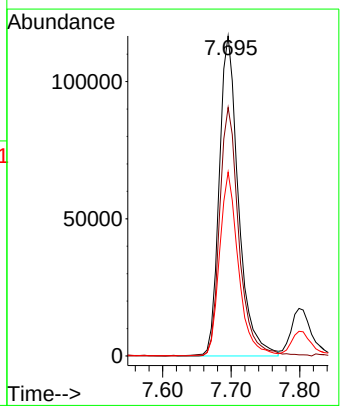


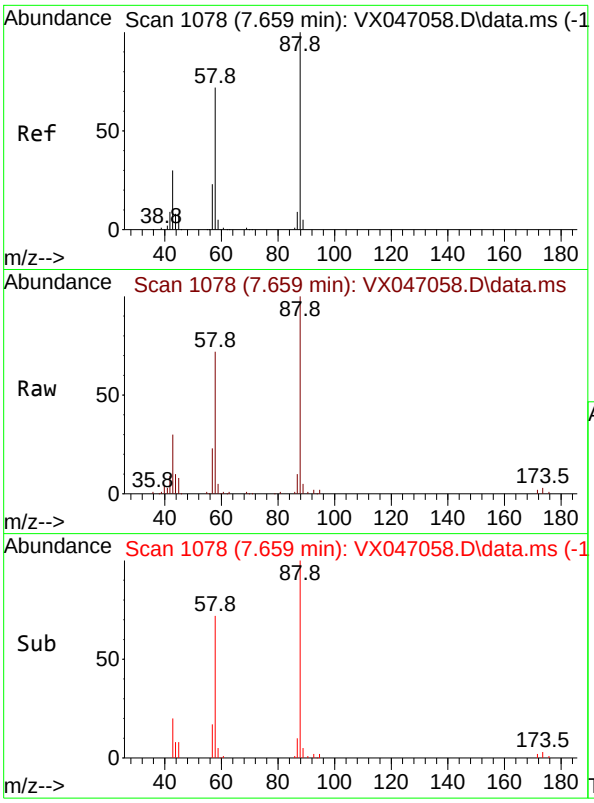


#48
Methyl methacrylate
Concen: 53.391 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 41 Resp: 227033

Ion	Ratio	Lower	Upper
41	100		
69	77.9	62.3	93.5
39	56.0	44.8	67.2



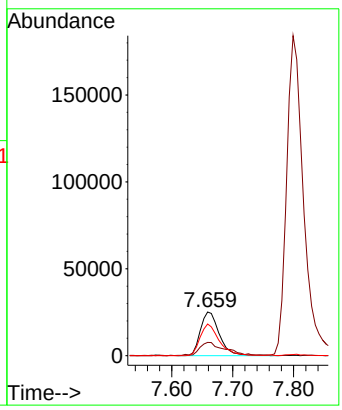


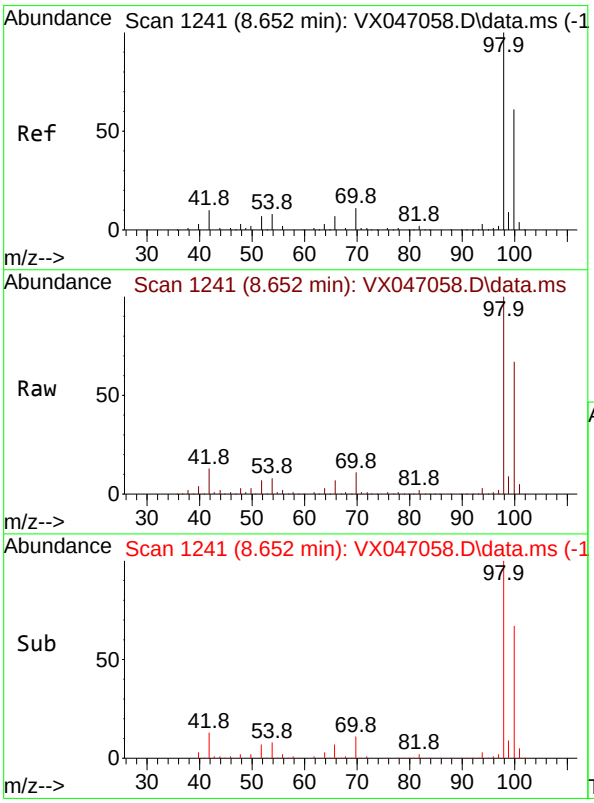
#49
1,4-Dioxane
Concen: 1114.967 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 53924

Ion	Ratio	Lower	Upper
88	100		
43	42.0	33.6	50.4
58	73.5	58.8	88.2

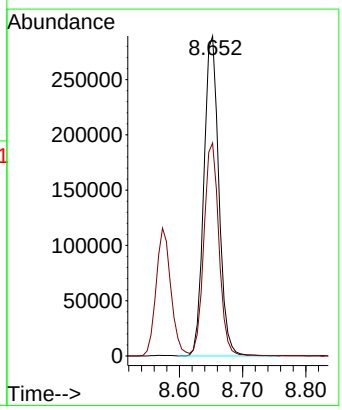


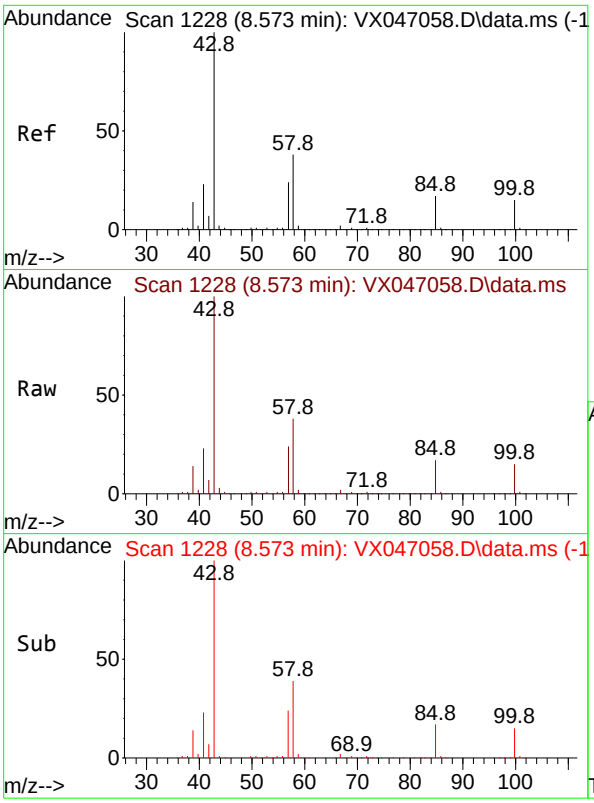


#50
Toluene-d8
Concen: 46.217 ug/l
RT: 8.652 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 98 Resp: 477108

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.3	79.9



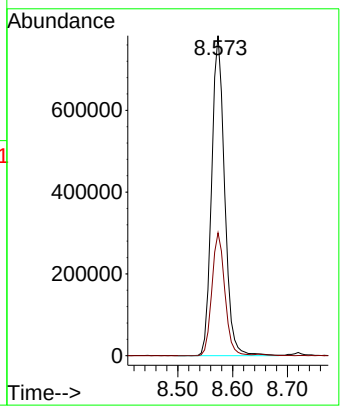


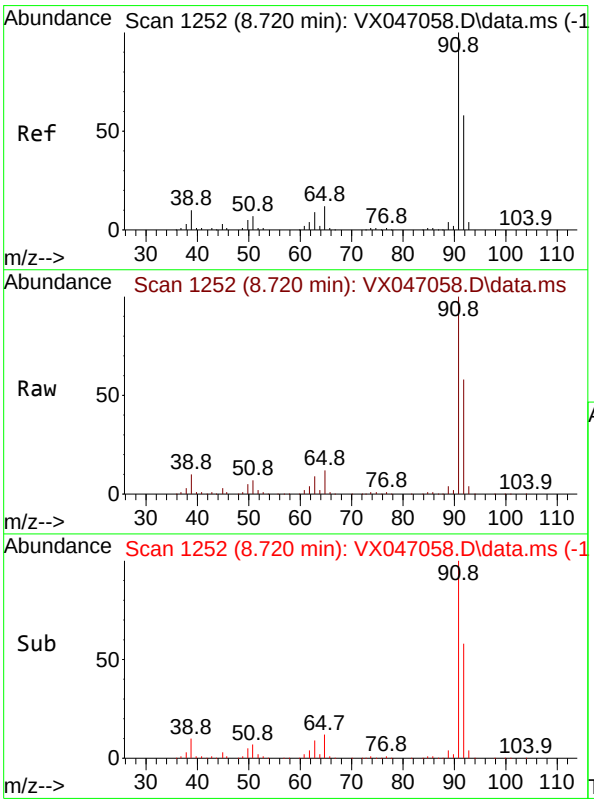
#51
4-Methyl-2-Pentanone
Concen: 276.384 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1282299

Ion	Ratio	Lower	Upper
43	100		
58	38.2	30.6	45.8

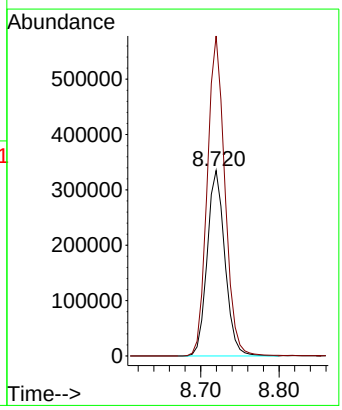


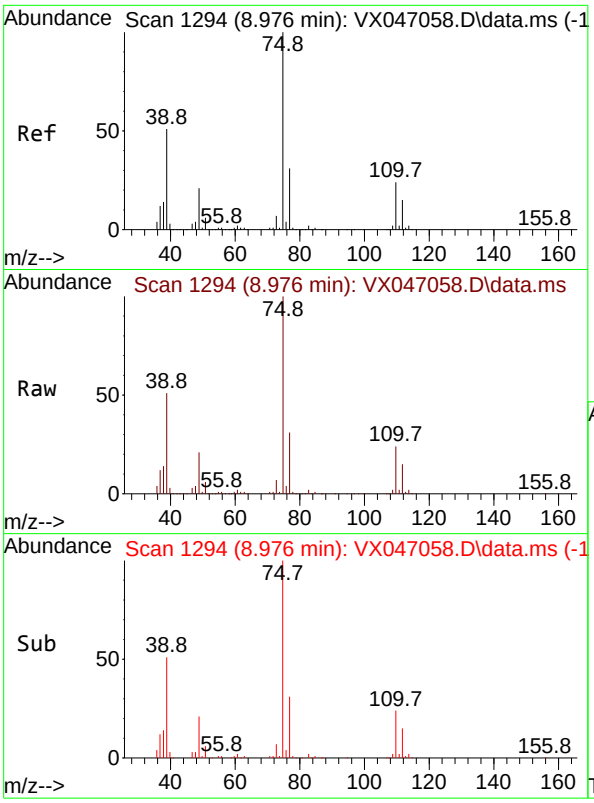


#52
Toluene
Concen: 54.288 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 92 Resp: 524916

Ion	Ratio	Lower	Upper
92	100		
91	172.4	137.9	206.9



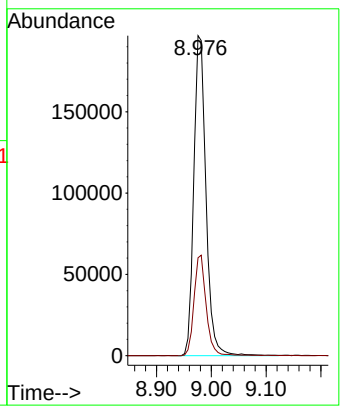


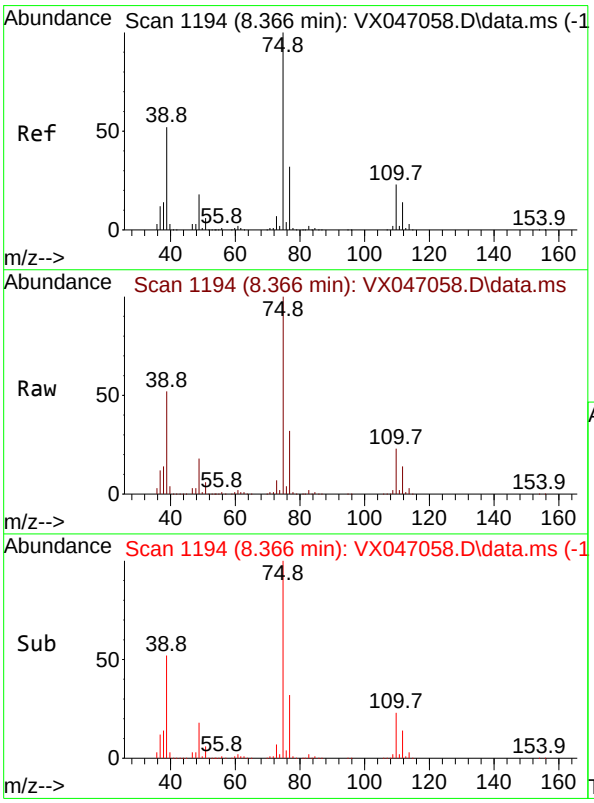
#53
t-1,3-Dichloropropene
Concen: 55.044 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 305568

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.5	36.7

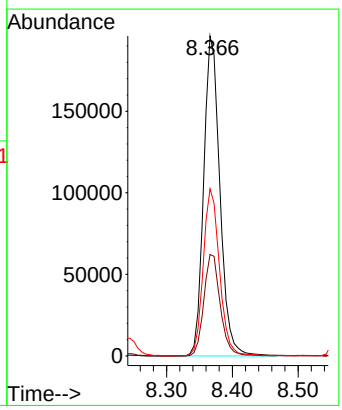


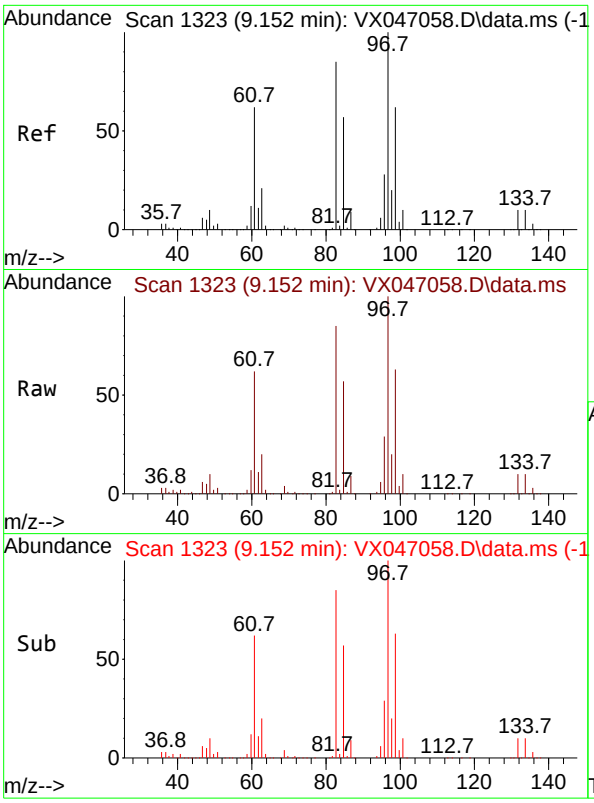


#54
cis-1,3-Dichloropropene
Concen: 55.475 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 75 Resp: 337057

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0
39	52.2	41.8	62.6



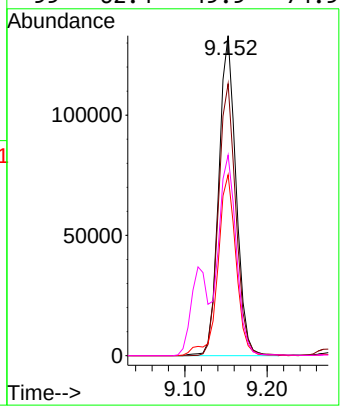


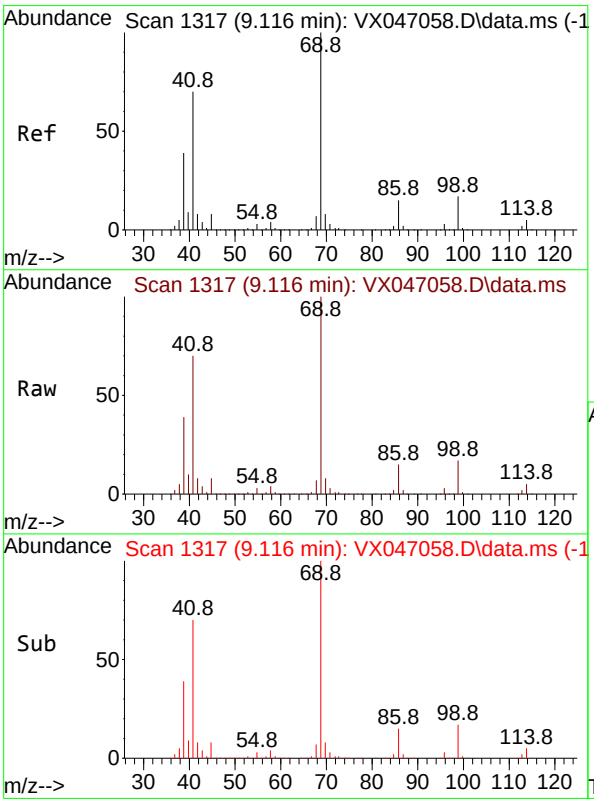
#55
1,1,2-Trichloroethane
Concen: 53.587 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 194314

Ion	Ratio	Lower	Upper
97	100		
83	85.0	68.0	102.0
85	56.5	45.2	67.8
99	62.4	49.9	74.9

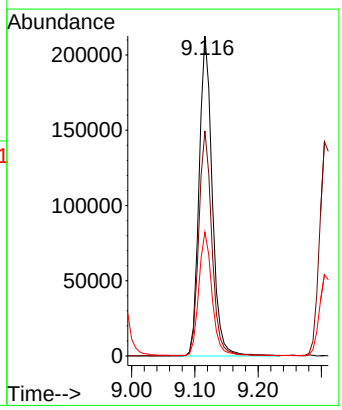


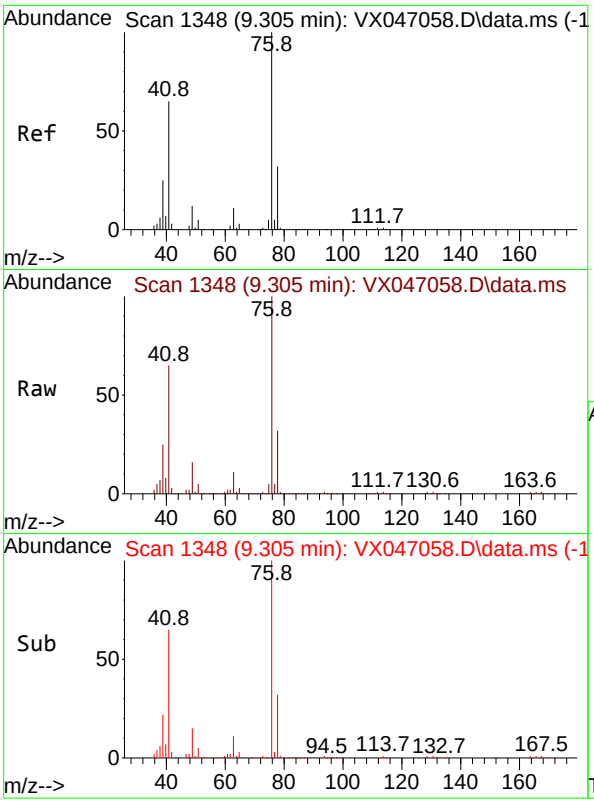


#56
Ethyl methacrylate
Concen: 57.281 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 69 Resp: 307494

Ion	Ratio	Lower	Upper
69	100		
41	70.1	56.1	84.1
39	38.9	31.1	46.7



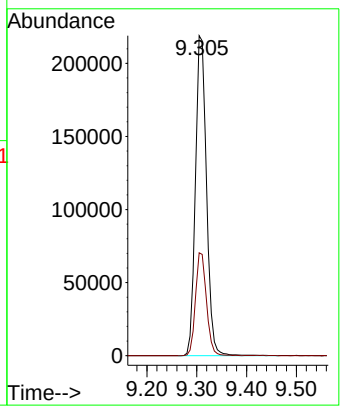


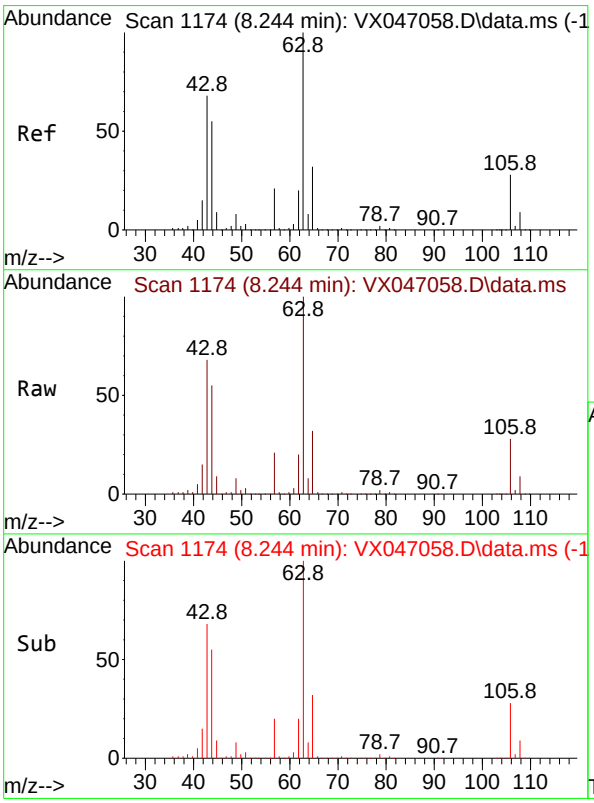
#57
1,3-Dichloropropane
Concen: 53.491 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 337106

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.5	38.3

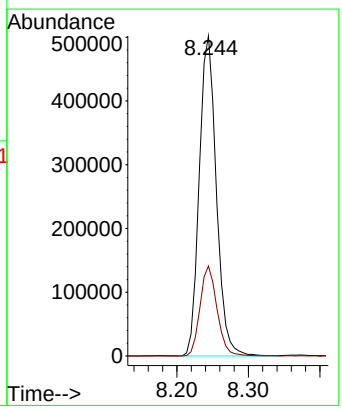


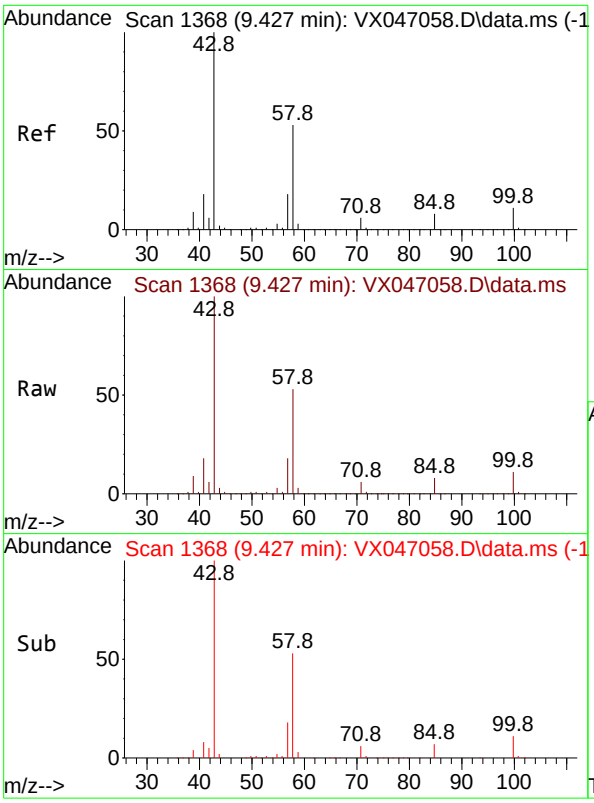


#58
2-Chloroethyl Vinyl ether
Concen: 278.917 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 63 Resp: 833190

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.2	33.4



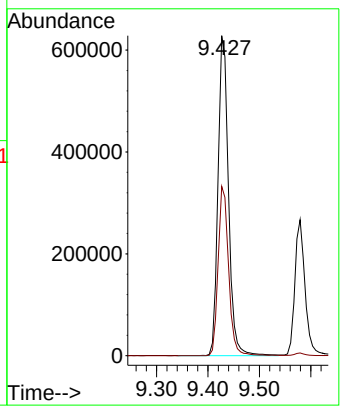


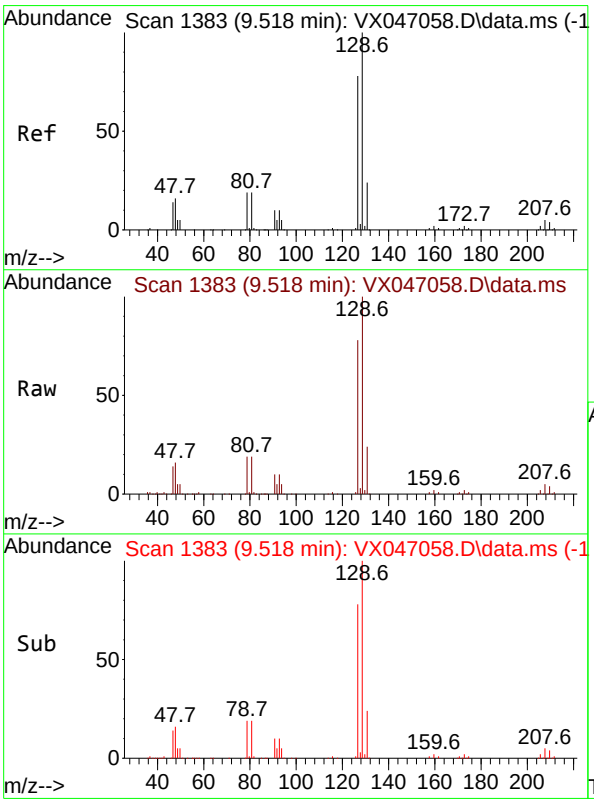
#59
2-Hexanone
Concen: 289.252 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 886635

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.5	79.5

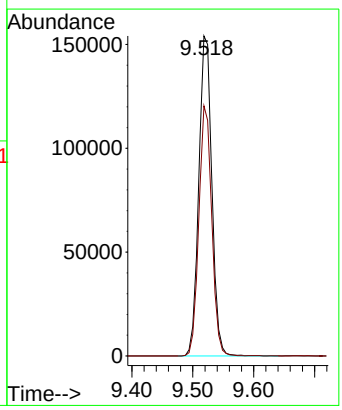


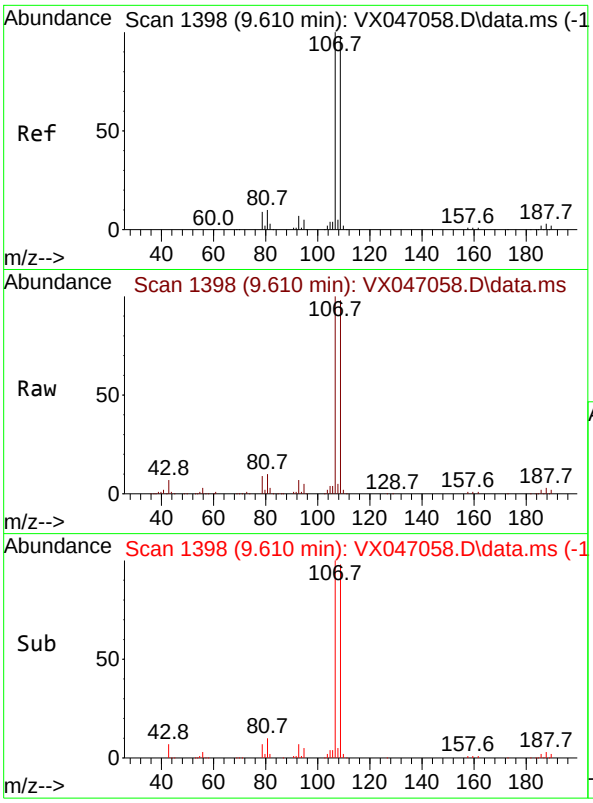


#60
Dibromochloromethane
Concen: 53.881 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:129 Resp: 229147

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.6	115.8



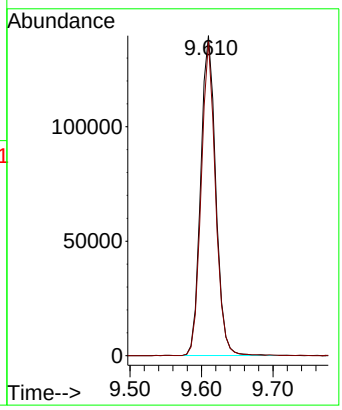


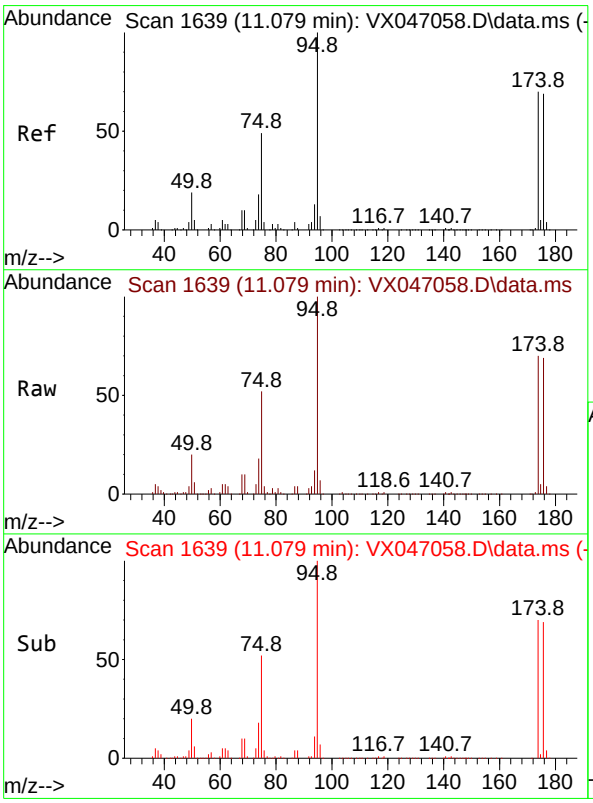
#61
1,2-Dibromoethane
Concen: 53.823 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 204078

Ion	Ratio	Lower	Upper
107	100		
109	93.3	74.6	112.0

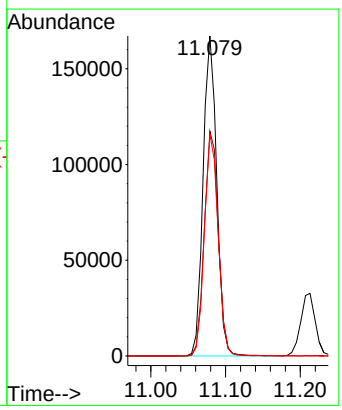


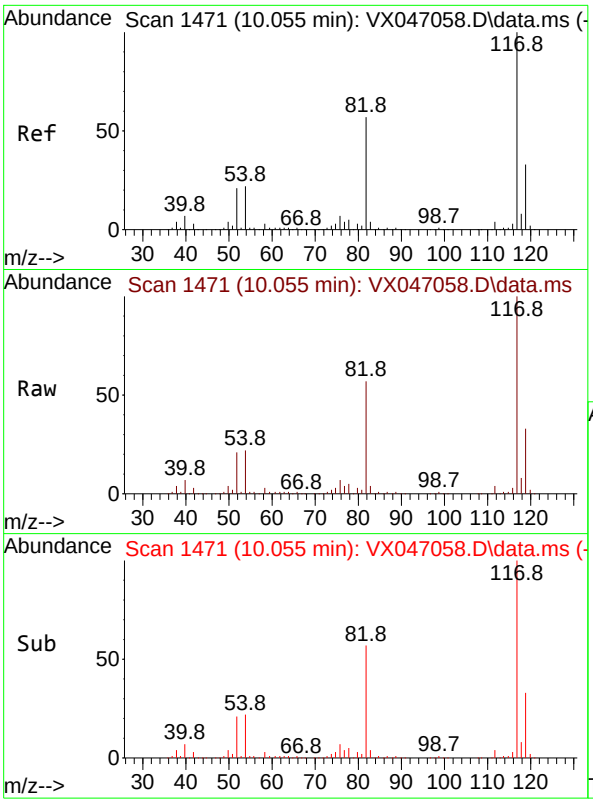


#62
4-Bromofluorobenzene
Concen: 47.473 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 95 Resp: 211198

Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	144.6
176	69.8	0.0	139.6



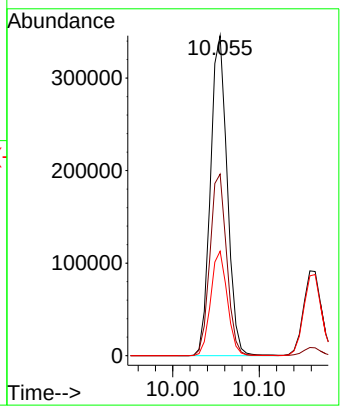


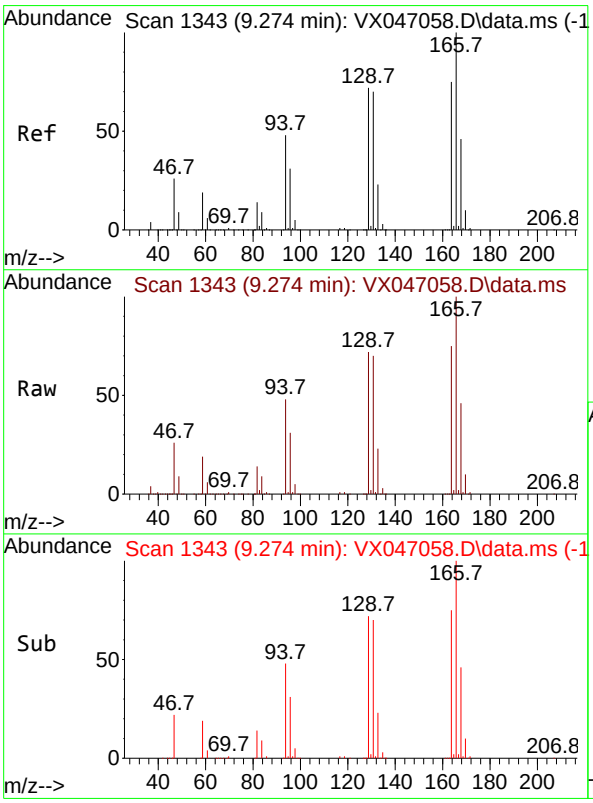
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 464565

Ion	Ratio	Lower	Upper
117	100		
82	56.8	45.4	68.2
119	32.6	26.1	39.1

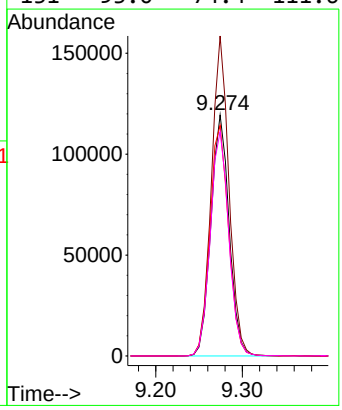


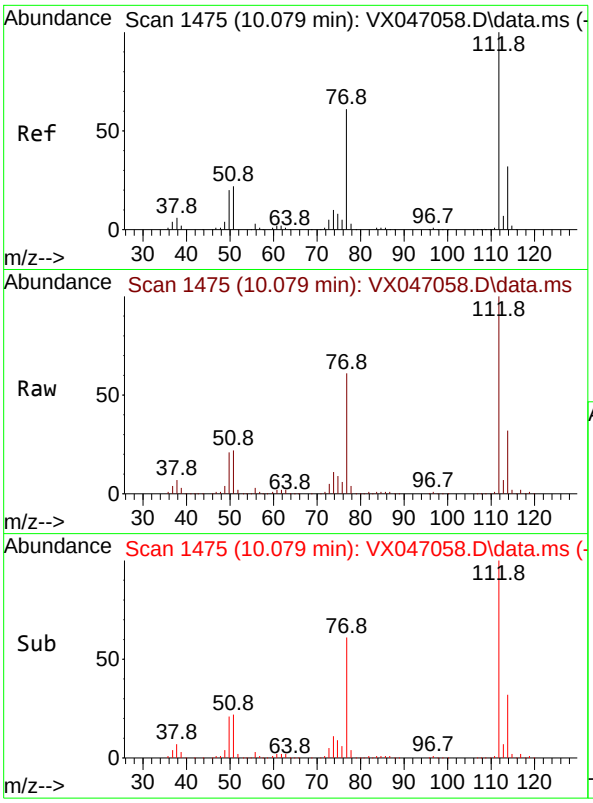


#64
Tetrachloroethene
Concen: 52.173 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:164 Resp: 174727

Ion	Ratio	Lower	Upper
164	100		
166	132.8	106.2	159.4
129	95.7	76.6	114.8
131	93.0	74.4	111.6



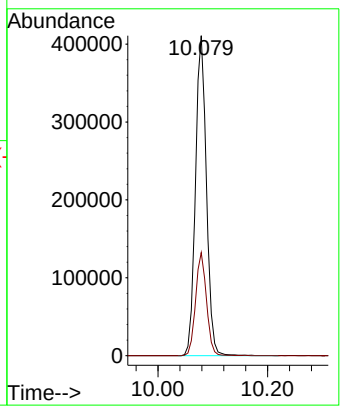


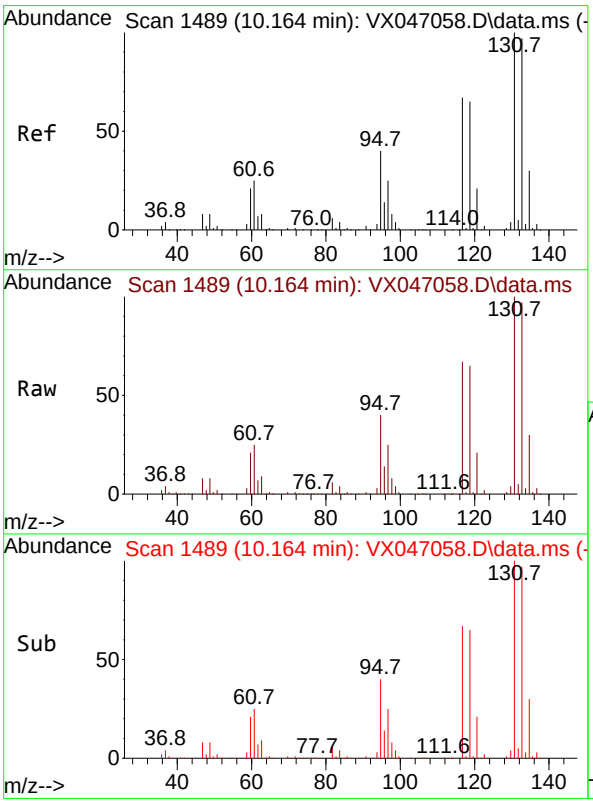
#65
Chlorobenzene
Concen: 52.530 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 571696

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.8	38.6

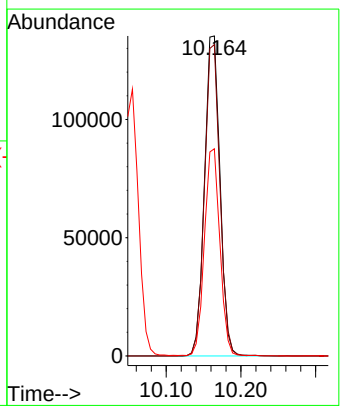


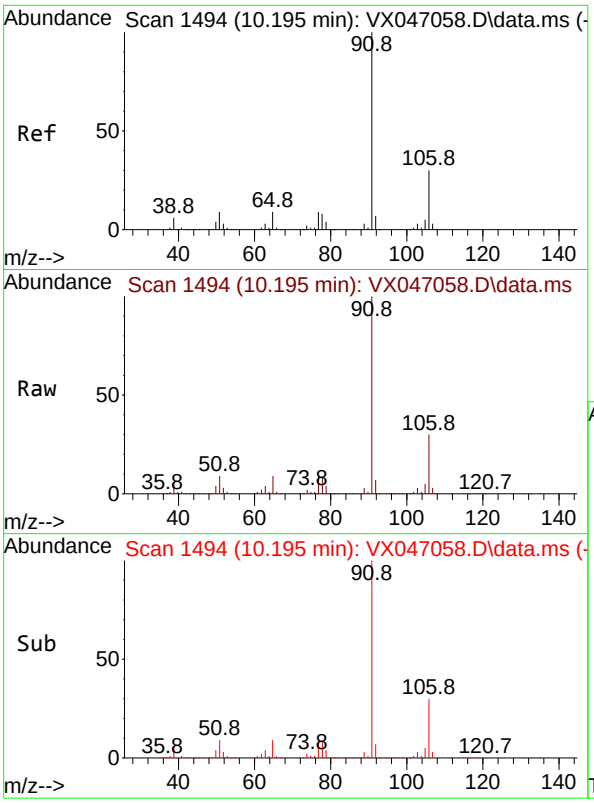


#66
1,1,1,2-Tetrachloroethane
Concen: 53.158 ug/l
RT: 10.164 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:131 Resp: 194777

Ion	Ratio	Lower	Upper
131	100		
133	96.9	48.4	145.3
119	64.7	32.4	97.0



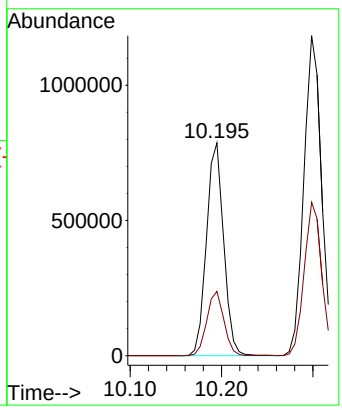


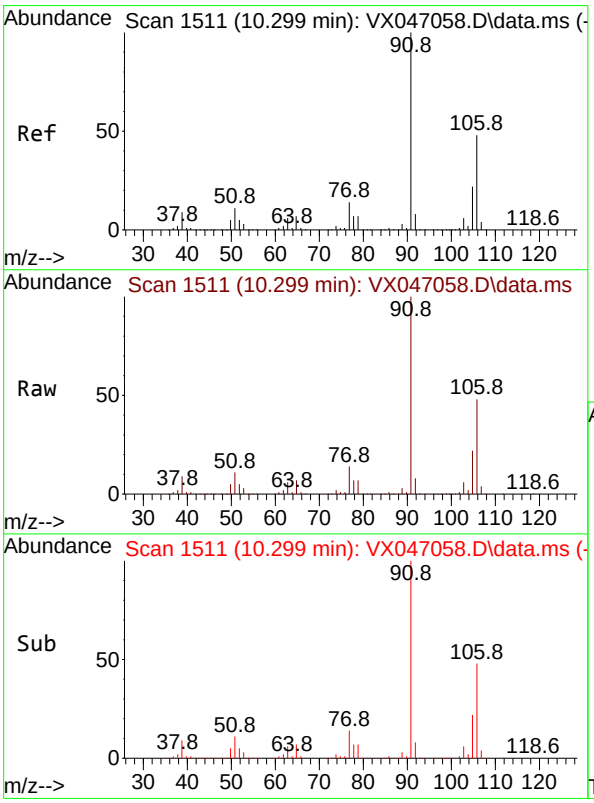
#67
Ethyl Benzene
Concen: 53.812 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 1023986

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.2	36.4

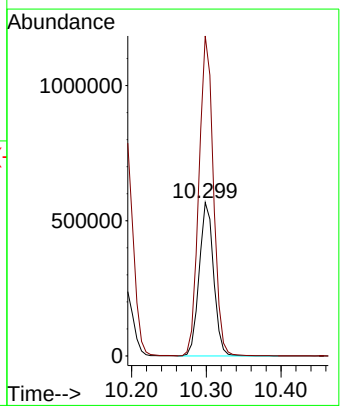


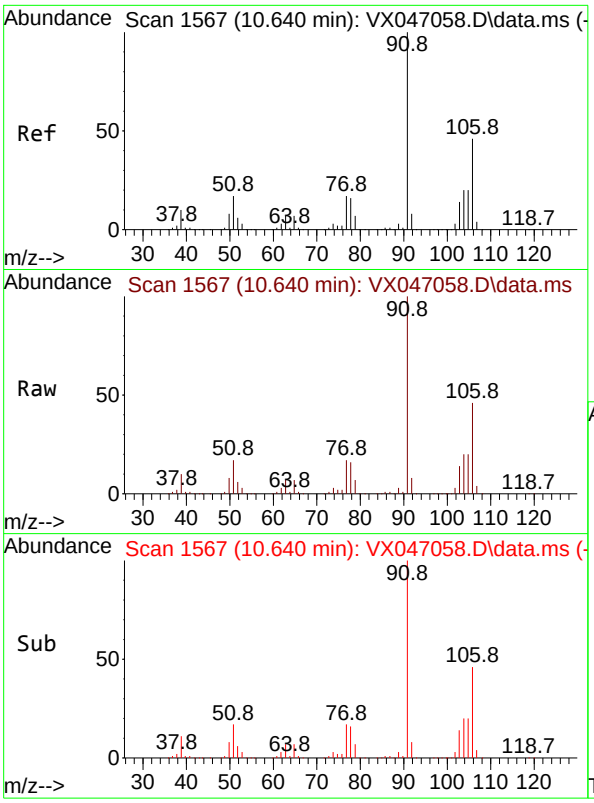


#68
m/p-Xylenes
Concen: 106.683 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:106 Resp: 759689

Ion	Ratio	Lower	Upper
106	100		
91	209.2	167.4	251.0



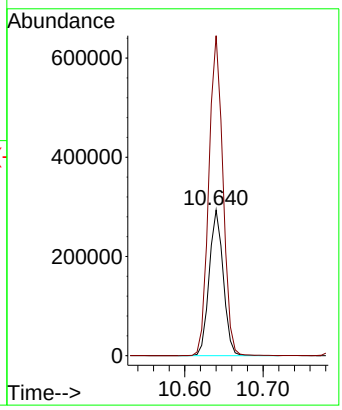


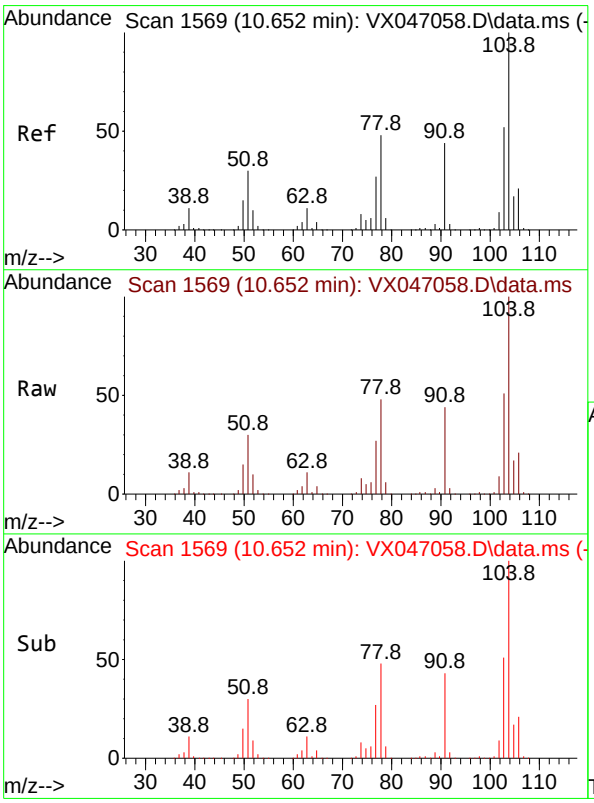
#69
o-Xylene
Concen: 53.834 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 364689

Ion	Ratio	Lower	Upper
106	100		
91	220.7	110.3	331.0

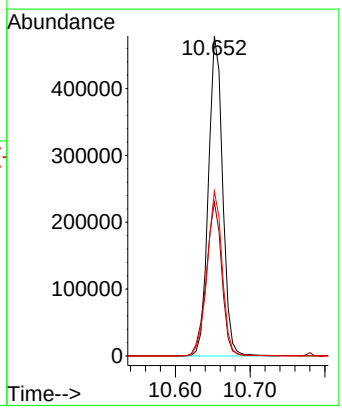


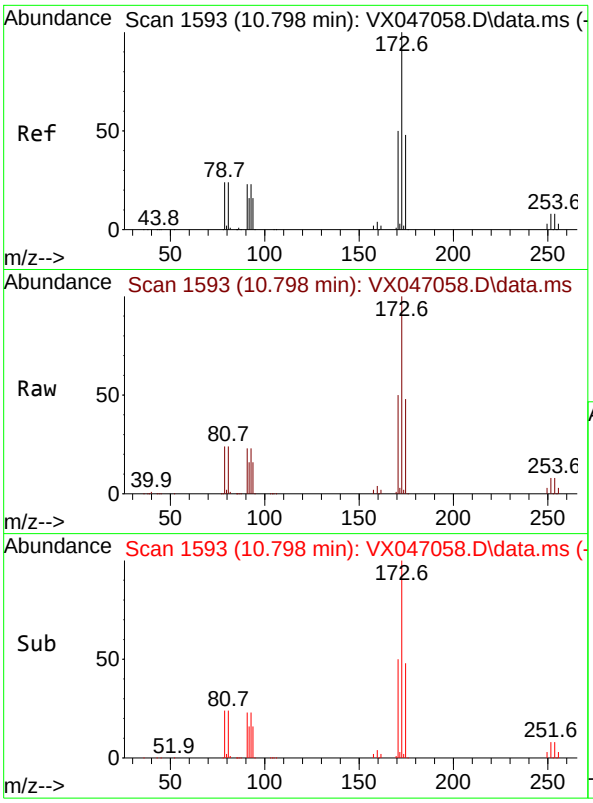


#70
Styrene
Concen: 54.447 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:104 Resp: 632474

Ion	Ratio	Lower	Upper
104	100		
78	52.5	42.0	63.0
103	54.7	43.8	65.6



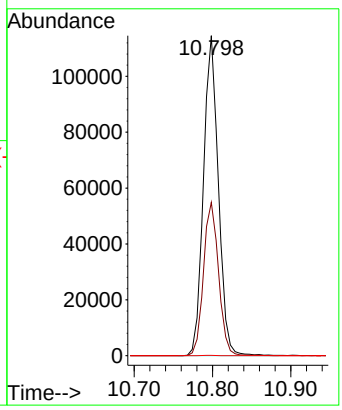


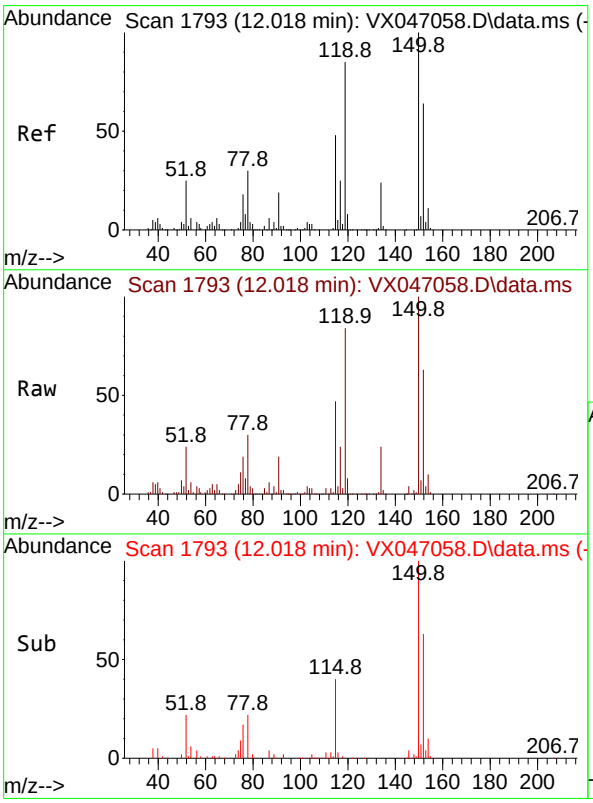
#71
Bromoform
Concen: 54.228 ug/l
RT: 10.798 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 150938

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.2	72.6
254	0.1	0.1	0.1

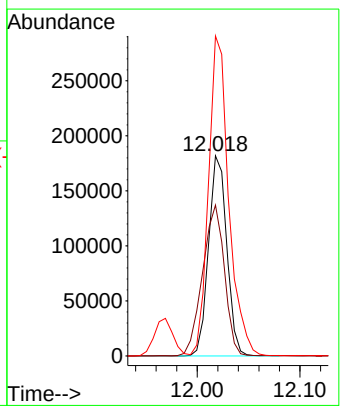


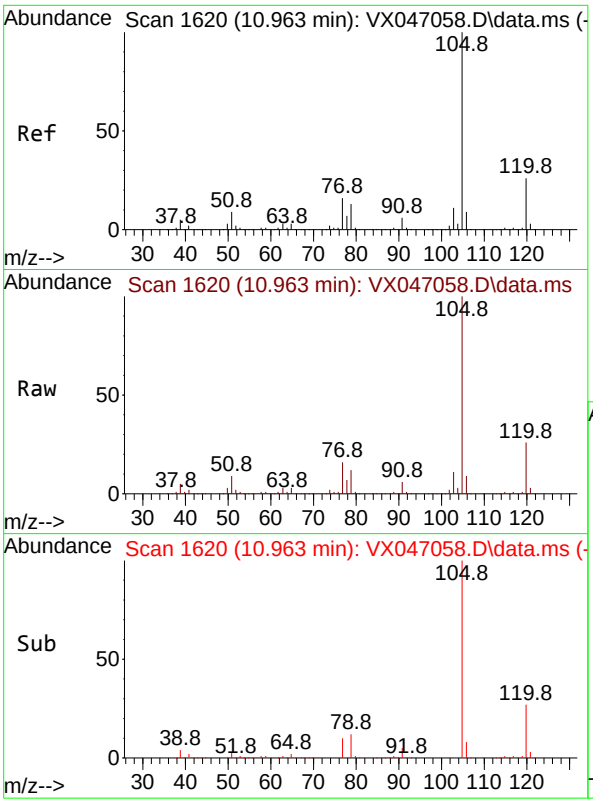


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:152 Resp: 223799

Ion	Ratio	Lower	Upper
152	100		
115	91.1	45.6	136.7
150	177.3	0.0	354.6



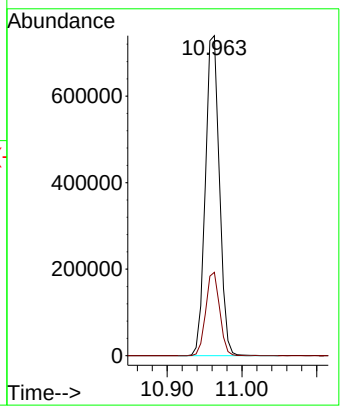


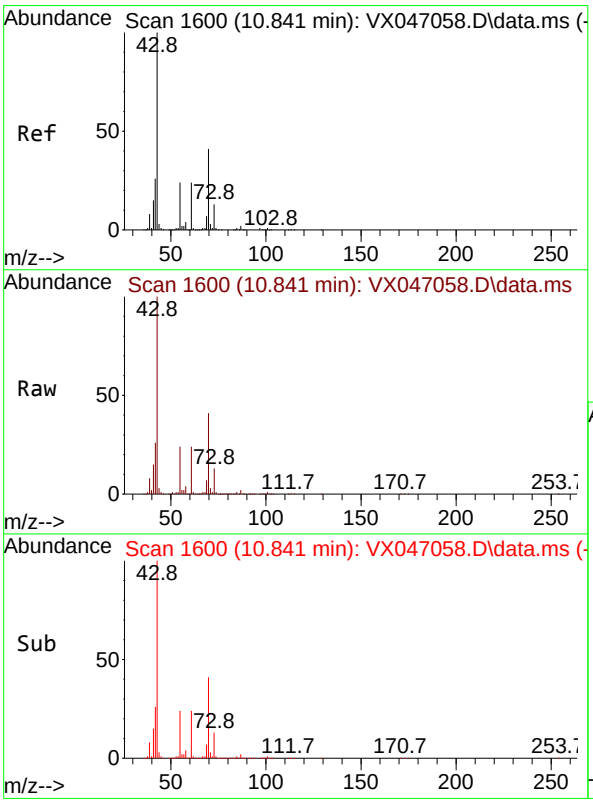
#73
Isopropylbenzene
Concen: 54.621 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 964411

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.7

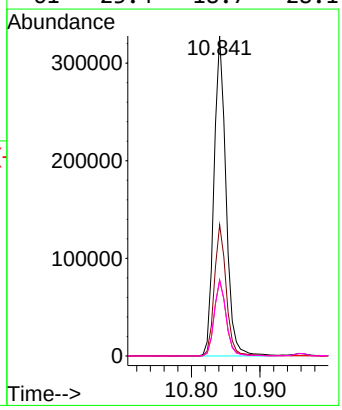


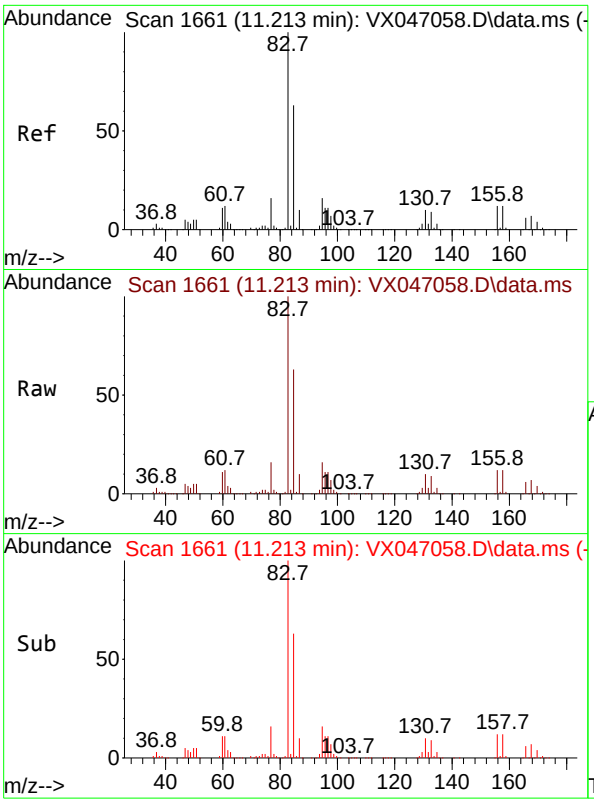


#74
N-amyl acetate
Concen: 56.697 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 43 Resp: 399297

Ion	Ratio	Lower	Upper
43	100		
70	40.4	32.3	48.5
55	23.6	18.9	28.3
61	23.4	18.7	28.1



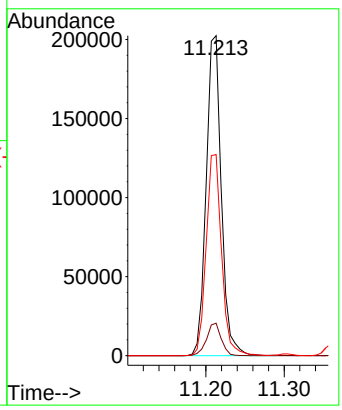


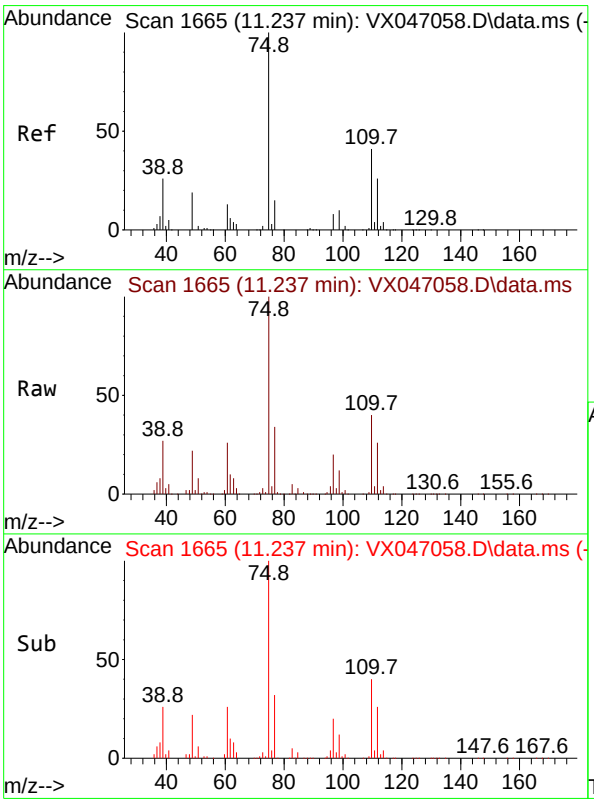
#75
1,1,2,2-Tetrachloroethane
Concen: 53.670 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 270685

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.1	32.0	96.2

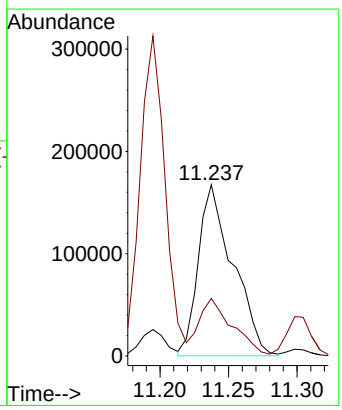


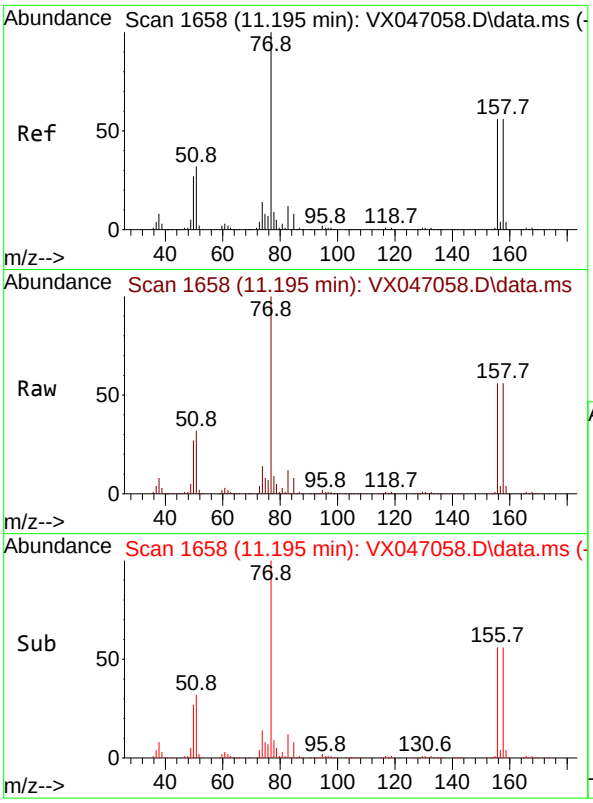


#76
1,2,3-Trichloropropane
Concen: 71.150 ug/l
RT: 11.237 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 75 Resp: 294731

Ion	Ratio	Lower	Upper
75	100		
77	32.6	21.6	65.0



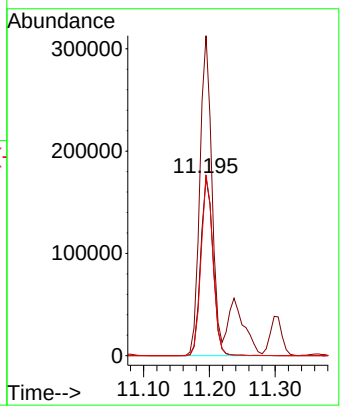


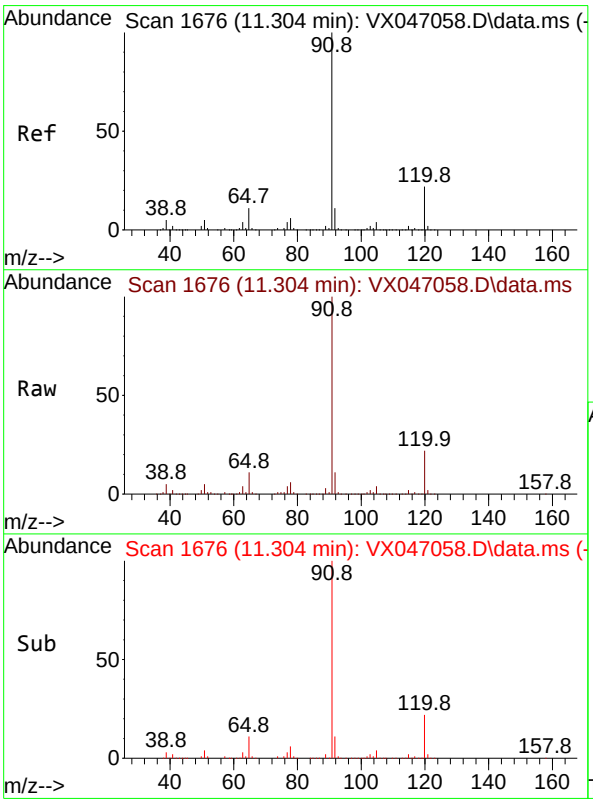
#77
Bromobenzene
Concen: 53.727 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 227531

Ion	Ratio	Lower	Upper
156	100		
77	174.6	87.3	261.9
158	97.7	48.9	146.6

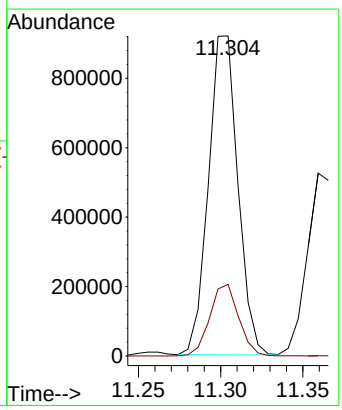


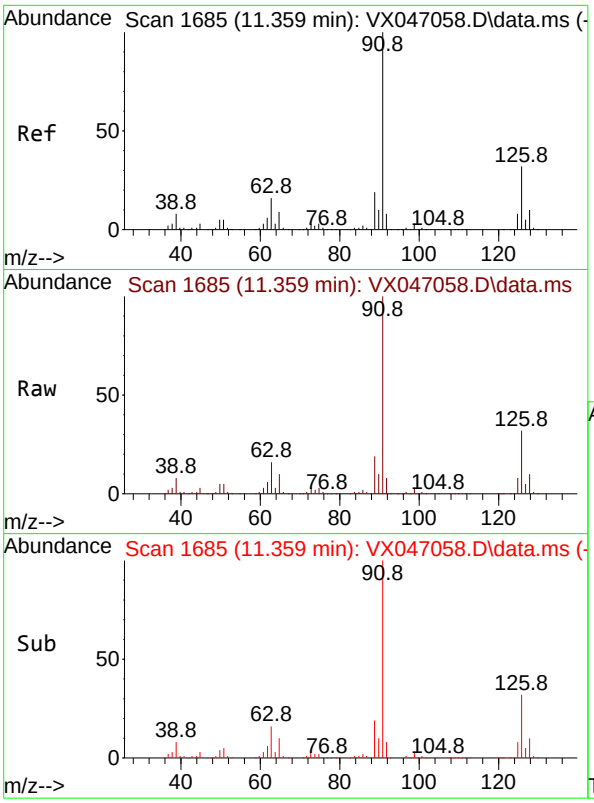


#78
n-propylbenzene
Concen: 54.290 ug/l
RT: 11.304 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 91 Resp: 1145472

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0



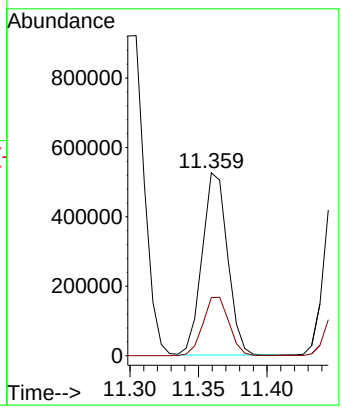


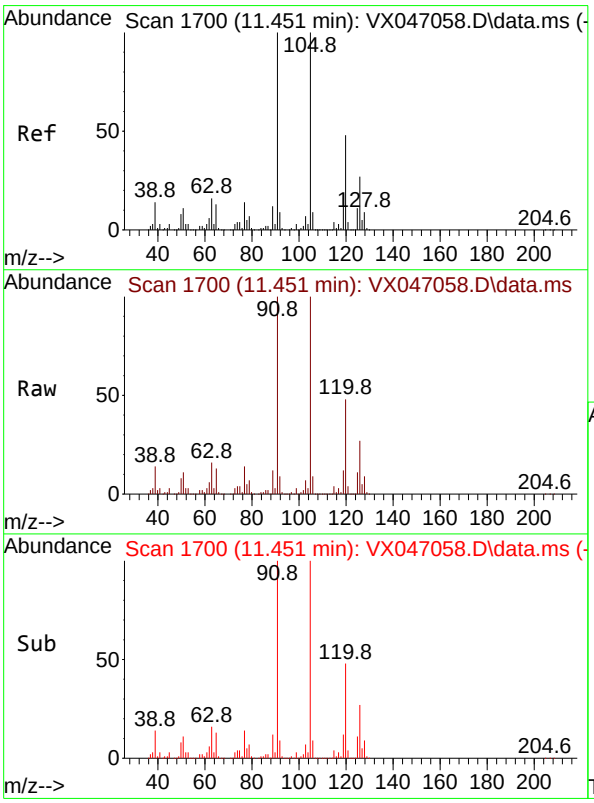
#79
2-Chlorotoluene
Concen: 53.739 ug/l
RT: 11.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 677779

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.4

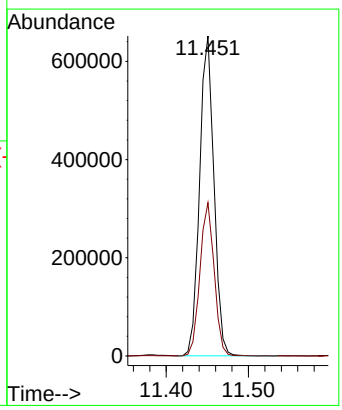


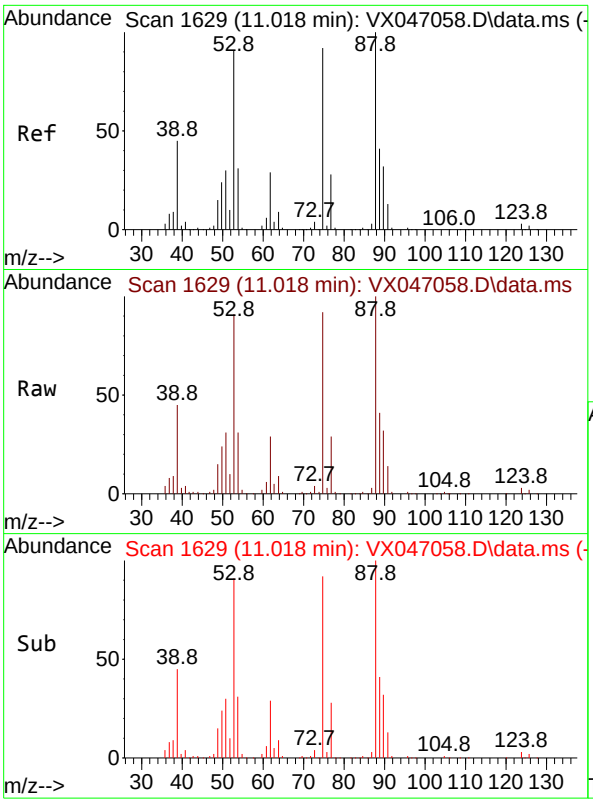


#80
1,3,5-Trimethylbenzene
Concen: 54.057 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:105 Resp: 788518

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.8	71.5



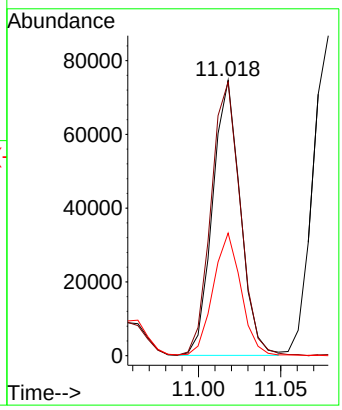


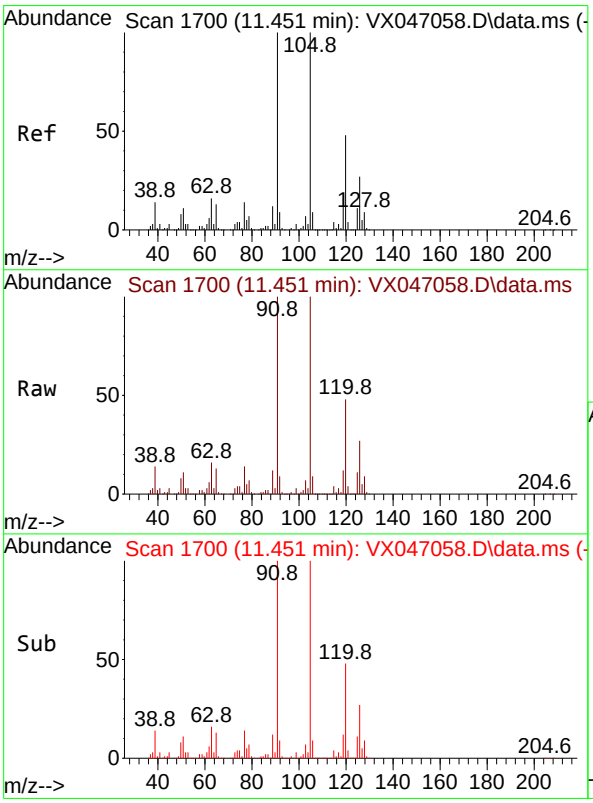
#81
trans-1,4-Dichloro-2-butene
Concen: 54.445 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 87538

Ion	Ratio	Lower	Upper
75	100		
53	105.3	84.2	126.4
89	45.0	36.0	54.0

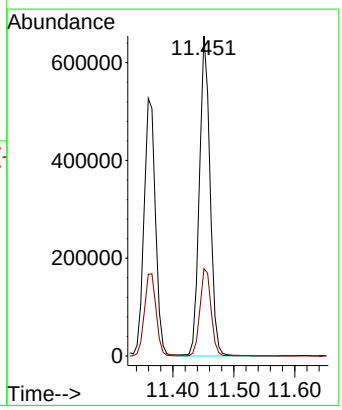


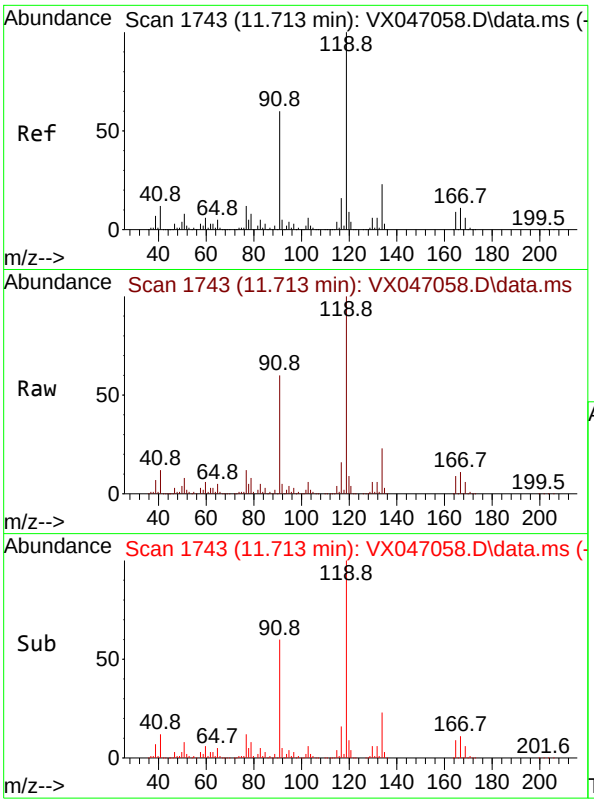


#82
4-Chlorotoluene
Concen: 54.249 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 91 Resp: 798628

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.1	42.3



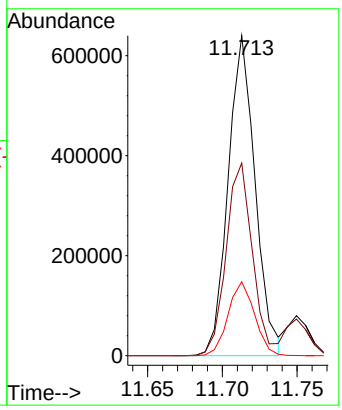


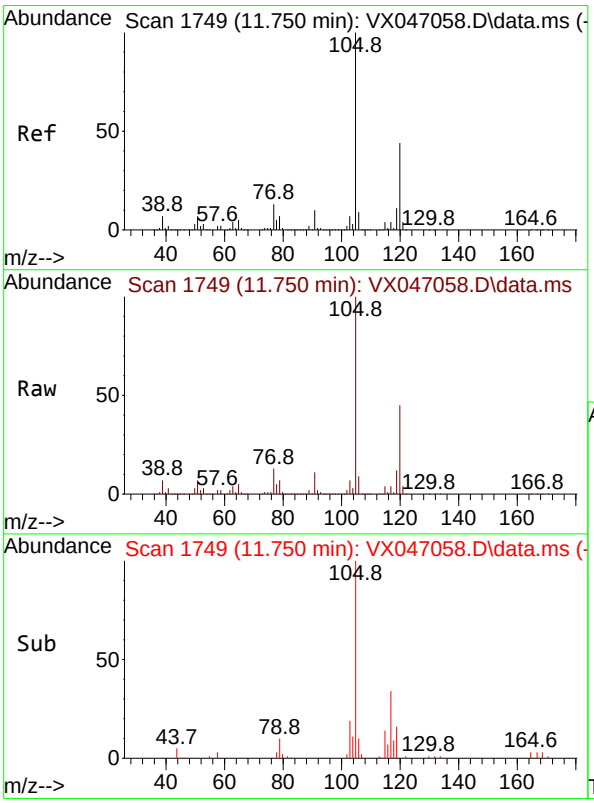
#83
tert-Butylbenzene
Concen: 54.819 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 802592

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	22.7	11.4	34.1

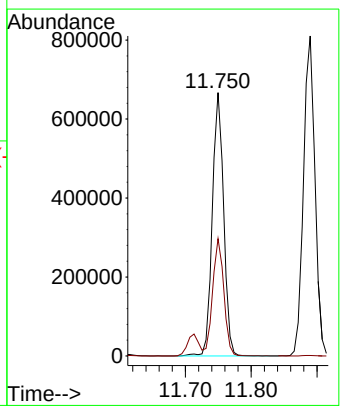


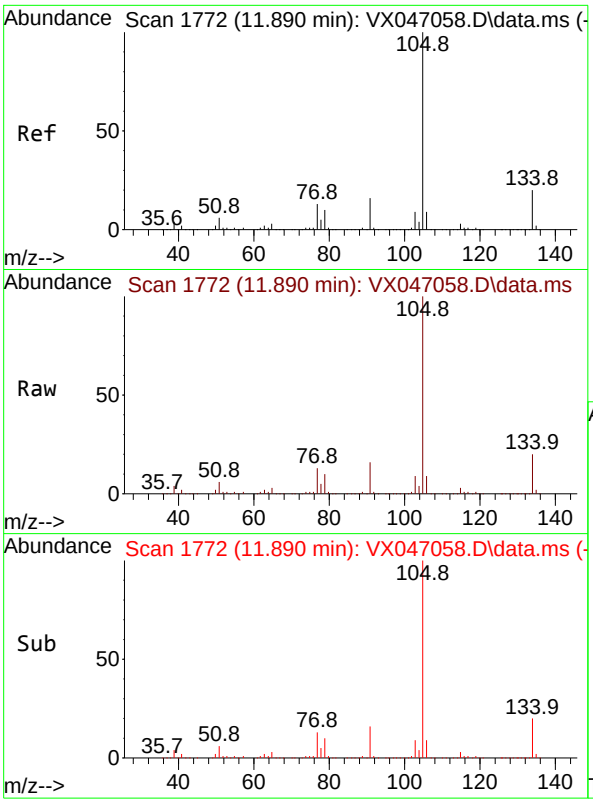


#84
1,2,4-Trimethylbenzene
Concen: 55.018 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:105 Resp: 800479

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.0	66.0



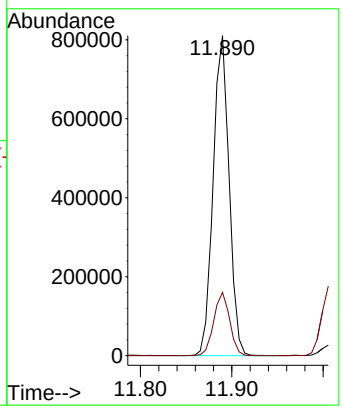


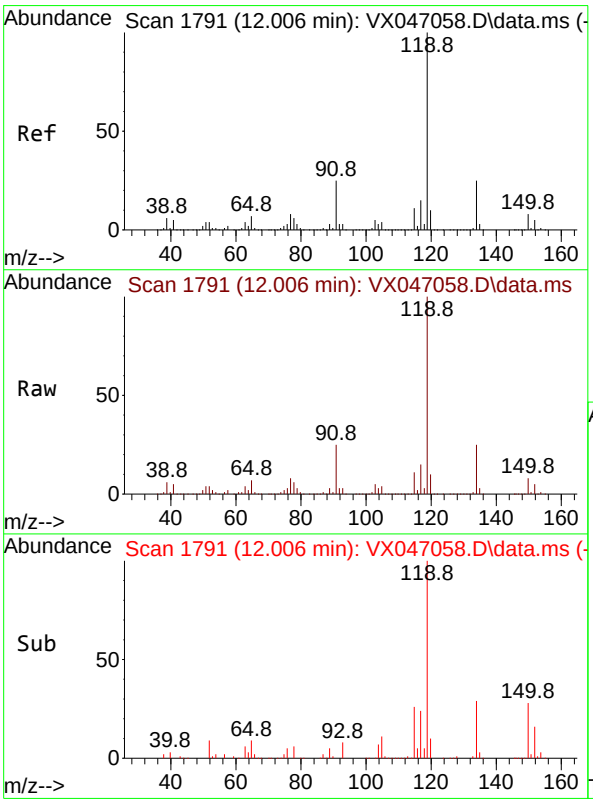
#85
sec-Butylbenzene
Concen: 53.809 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 984328

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7

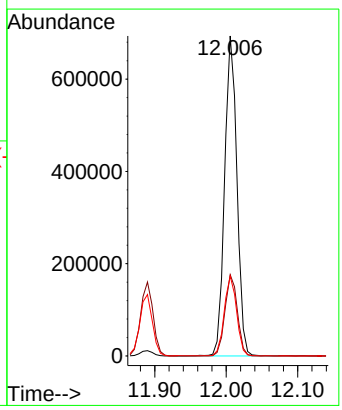


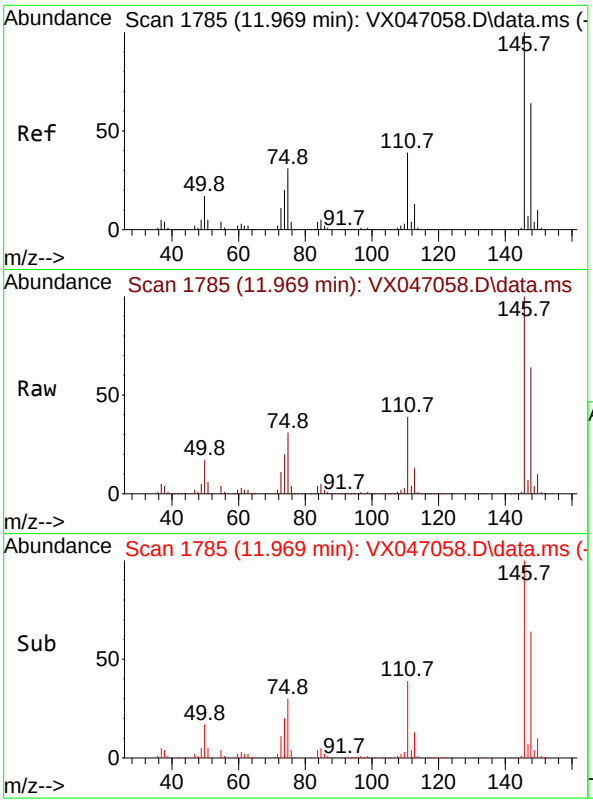


#86
p-Isopropyltoluene
Concen: 54.651 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:119 Resp: 829044

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.4
91	24.9	12.4	37.4



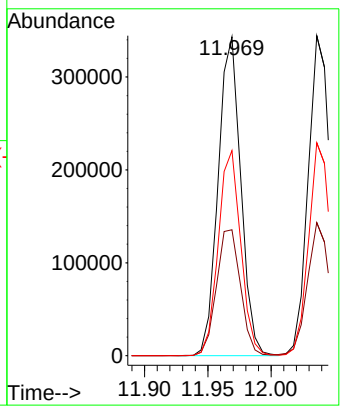


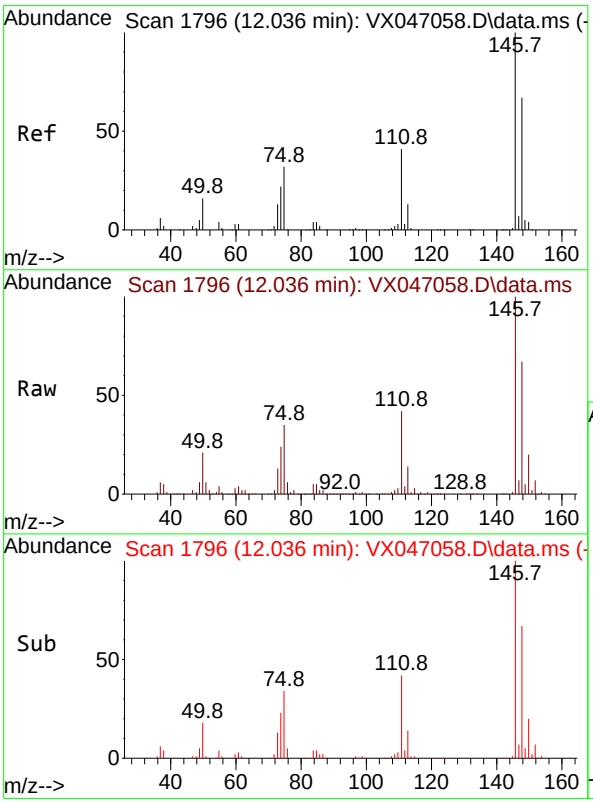
#87
1,3-Dichlorobenzene
Concen: 53.079 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 427108

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.0	63.0
148	64.0	32.0	96.0

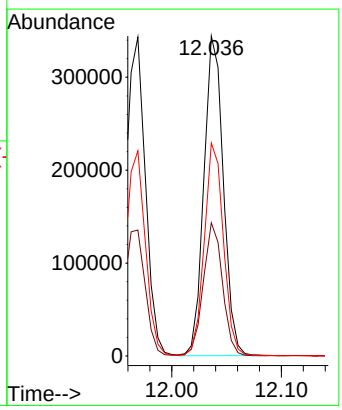


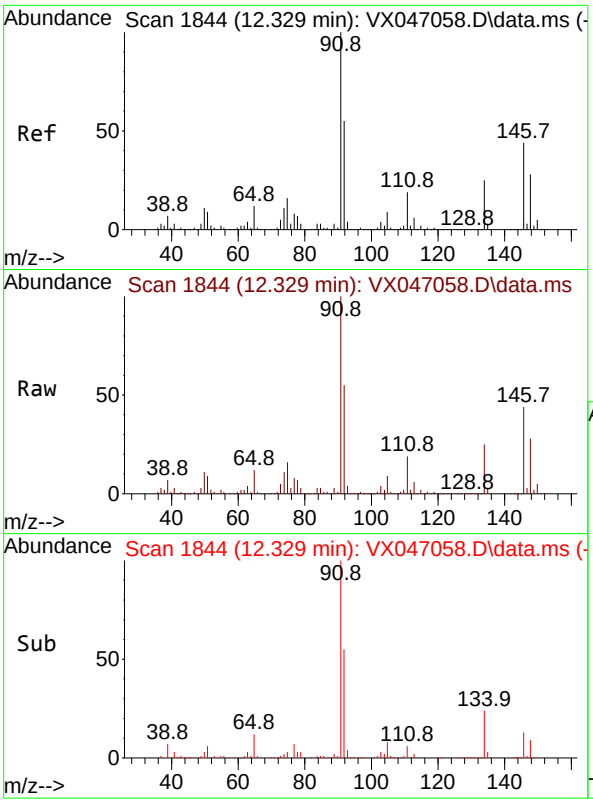


#88
1,4-Dichlorobenzene
Concen: 51.978 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:146 Resp: 423743

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.6	61.9
148	65.9	33.0	98.9



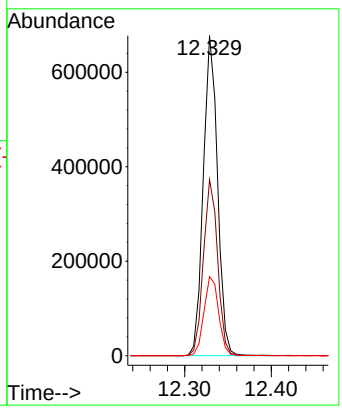


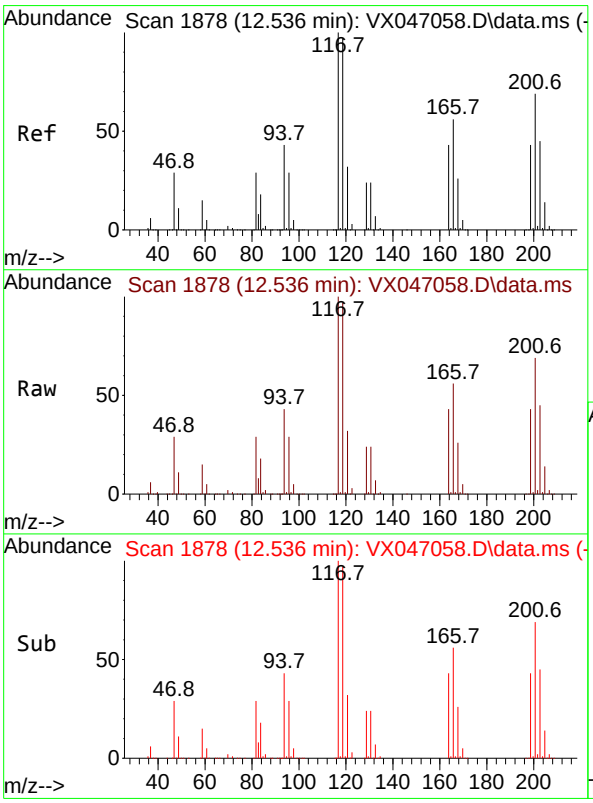
#89
n-Butylbenzene
Concen: 54.372 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 773506

Ion	Ratio	Lower	Upper
91	100		
92	55.0	27.5	82.5
134	25.5	12.8	38.3

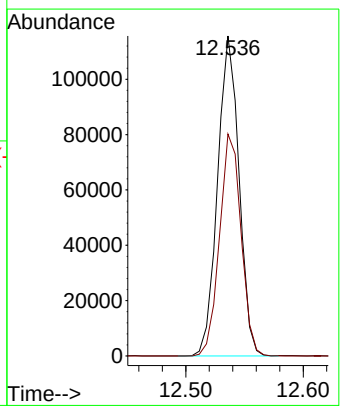


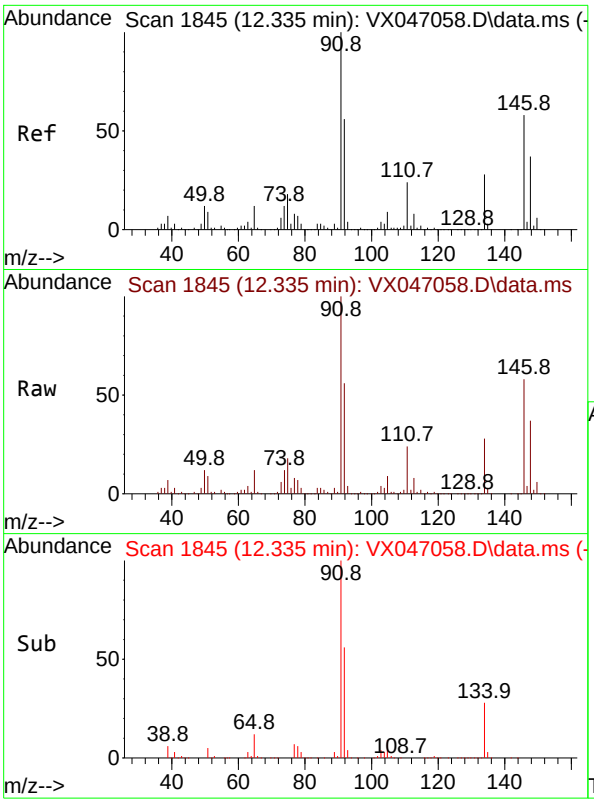


#90
Hexachloroethane
Concen: 54.011 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:117 Resp: 146577

Ion	Ratio	Lower	Upper
117	100		
201	69.7	34.8	104.5



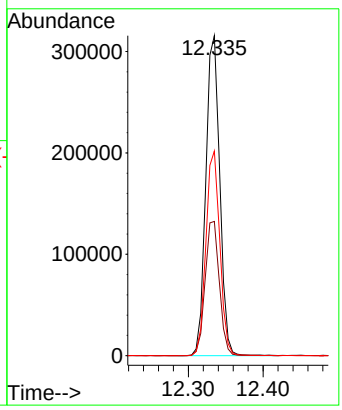


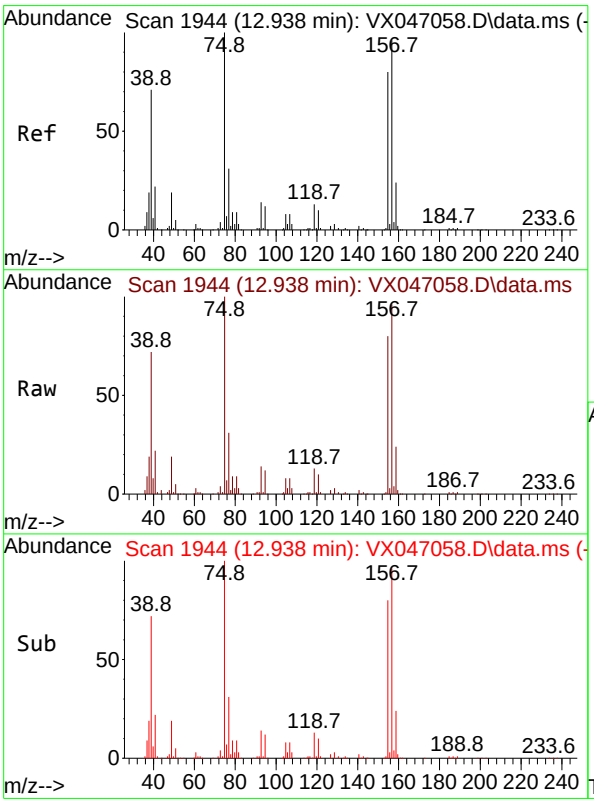
#91
1,2-Dichlorobenzene
Concen: 53.076 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 408192

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.6	64.6
148	63.8	31.9	95.7

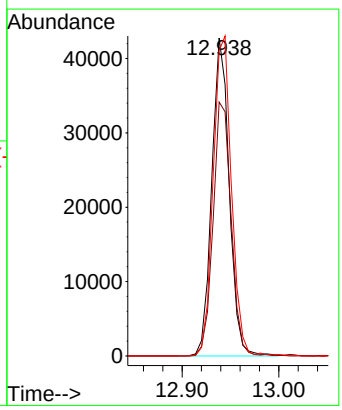


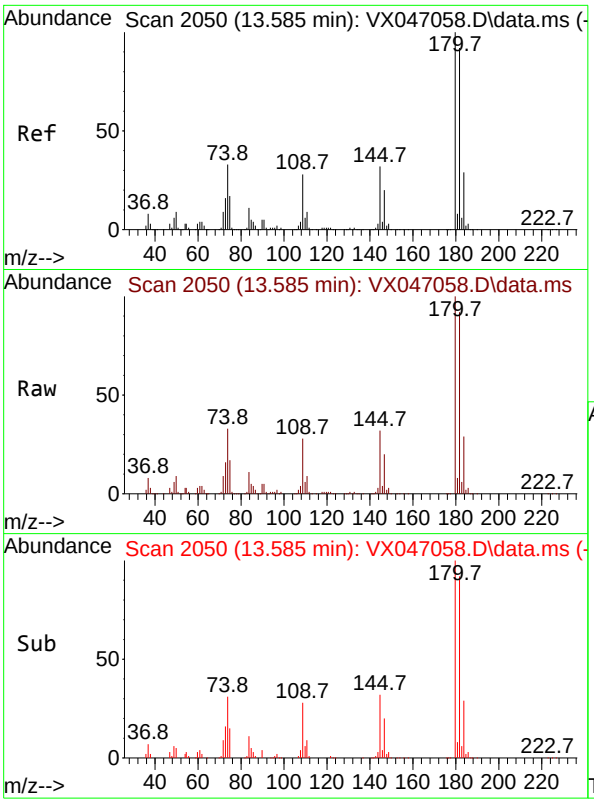


#92
1,2-Dibromo-3-Chloropropane
Concen: 55.328 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion: 75 Resp: 53563

Ion	Ratio	Lower	Upper
75	100		
155	82.7	41.3	124.1
157	105.5	52.8	158.3



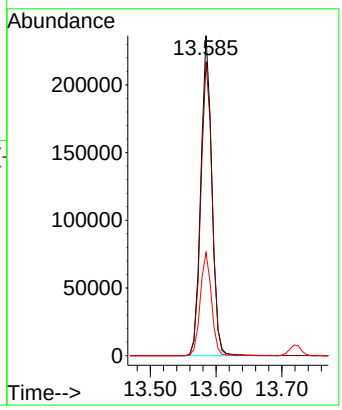


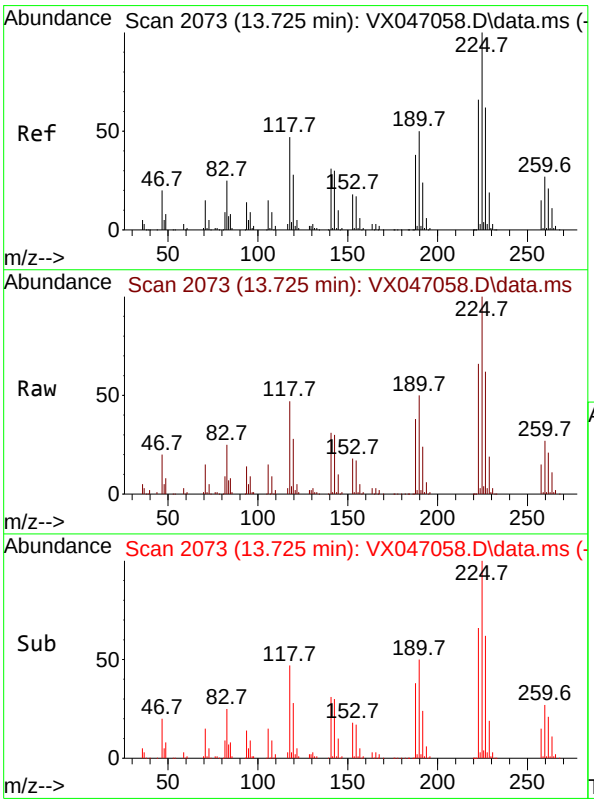
#93
1,2,4-Trichlorobenzene
Concen: 53.926 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 274012

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.3	141.8
145	32.7	16.4	49.1

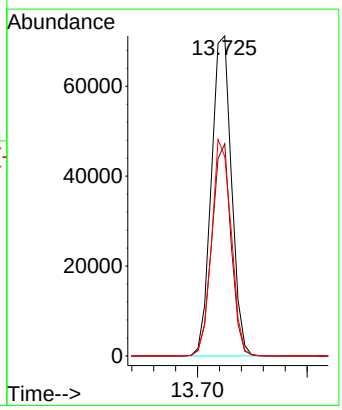


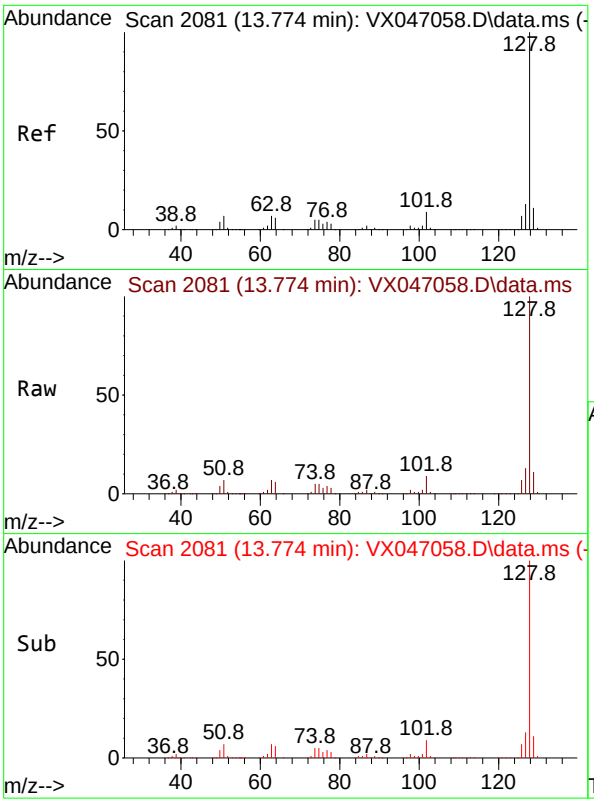


#94
Hexachlorobutadiene
Concen: 52.553 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:225 Resp: 90816

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.6	95.0
227	65.7	32.9	98.6



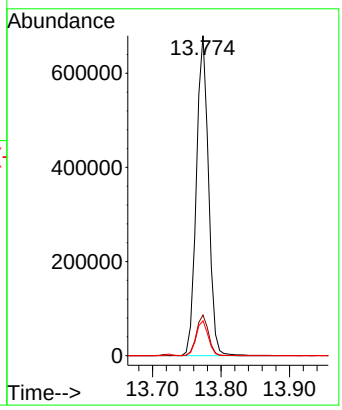


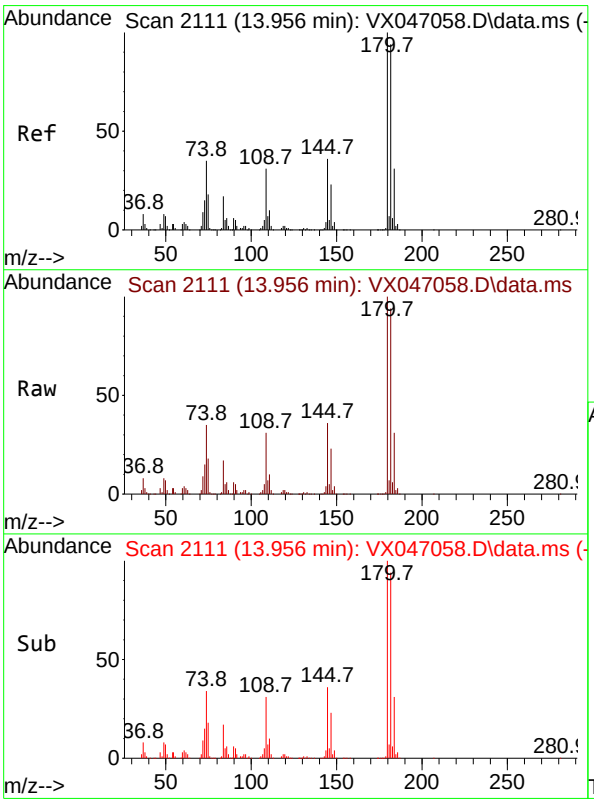
#95
Naphthalene
Concen: 56.390 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 839990

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.8	8.6	13.0

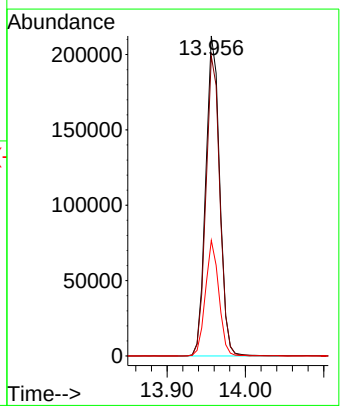




#96
1,2,3-Trichlorobenzene
Concen: 53.580 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047058.D
Acq: 21 Jul 2025 10:50

Tgt Ion:180 Resp: 262282

Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.9	140.6
145	34.7	17.3	52.0



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047059.D
Acq On : 21 Jul 2025 11:11
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Jul 22 03:39:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	293211	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	502636	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	443709	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	210644	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	358189	98.067	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 196.140%#			
35) Dibromofluoromethane	5.397	113	304077	97.981	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 195.960%#			
50) Toluene-d8	8.653	98	951189	94.642	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 189.280%#			
62) 4-Bromofluorobenzene	11.079	95	418790	96.692	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 193.380%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	422702	108.536	ug/l	98
3) Chloromethane	1.307	50	390958	101.483	ug/l	99
4) Vinyl Chloride	1.386	62	420036	101.428	ug/l	98
5) Bromomethane	1.611	94	207177	92.097	ug/l	96
6) Chloroethane	1.697	64	248151	91.235	ug/l	98
7) Trichlorofluoromethane	1.898	101	618083	100.093	ug/l	99
8) Diethyl Ether	2.148	74	214962	98.730	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.343	101	367465	98.771	ug/l	100
10) Methyl Iodide	2.465	142	421251	111.100	ug/l	99
11) Tert butyl alcohol	2.965	59	207609	496.373	ug/l	98
12) 1,1-Dichloroethene	2.337	96	365672	99.237	ug/l	96
13) Acrolein	2.245	56	390297	496.280	ug/l	99
14) Allyl chloride	2.678	41	668038	100.294	ug/l	99
15) Acrylonitrile	3.075	53	895719	514.199	ug/l	99
16) Acetone	2.386	43	680698	465.214	ug/l	99
17) Carbon Disulfide	2.526	76	1045599	98.086	ug/l	100
18) Methyl Acetate	2.715	43	381521	98.118	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	1109184	98.907	ug/l	100
20) Methylene Chloride	2.806	84	382904	95.122	ug/l	99
21) trans-1,2-Dichloroethene	3.105	96	370810	98.339	ug/l	97
22) Diisopropyl ether	3.770	45	1246566	97.342	ug/l	99
23) Vinyl Acetate	3.733	43	5255654	511.682	ug/l	100
24) 1,1-Dichloroethane	3.623	63	690059	96.903	ug/l	99
25) 2-Butanone	4.562	43	1064894	499.825	ug/l	99
26) 2,2-Dichloropropane	4.489	77	534633	96.986	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	433236	97.026	ug/l	99
28) Bromochloromethane	4.910	49	327531	99.974	ug/l	100
29) Tetrahydrofuran	5.013	42	696538	506.702	ug/l	99
30) Chloroform	5.105	83	688904	95.036	ug/l	98
31) Cyclohexane	5.483	56	644257	94.354	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	610295	96.931	ug/l	99
36) 1,1-Dichloropropene	5.702	75	486962	92.052	ug/l	99
37) Ethyl Acetate	4.721	43	464215	99.573	ug/l	99
38) Carbon Tetrachloride	5.690	117	534117	94.597	ug/l	99
39) Methylcyclohexane	7.385	83	643495	97.426	ug/l	98
40) Benzene	6.050	78	1458721	95.282	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047059.D
Acq On : 21 Jul 2025 11:11
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Jul 22 03:39:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	266722	104.648	ug/l		99
42) 1,2-Dichloroethane	6.092	62	514986	95.493	ug/l		99
43) Isopropyl Acetate	6.342	43	782743	103.002	ug/l		99
44) Trichloroethene	7.129	130	372515	94.887	ug/l		99
45) 1,2-Dichloropropane	7.434	63	364769	95.131	ug/l		97
46) Dibromomethane	7.586	93	262070	97.464	ug/l		100
47) Bromodichloromethane	7.824	83	545715	95.349	ug/l		98
48) Methyl methacrylate	7.696	41	406578	98.210	ug/l		100
49) 1,4-Dioxane	7.659	88	97685	2074.633	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	2213299	490.000	ug/l		100
52) Toluene	8.720	92	900379	95.648	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	550435	101.846	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	595662	100.700	ug/l		100
55) 1,1,2-Trichloroethane	9.153	97	333552	94.482	ug/l		99
56) Ethyl methacrylate	9.116	69	546929	104.649	ug/l		99
57) 1,3-Dichloropropane	9.311	76	579525	94.454	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	1489901	512.296	ug/l		100
59) 2-Hexanone	9.433	43	1534390	514.162	ug/l		99
60) Dibromochloromethane	9.519	129	400453	96.718	ug/l		100
61) 1,2-Dibromoethane	9.610	107	350348	94.909	ug/l		99
64) Tetrachloroethene	9.275	164	299042	93.490	ug/l		96
65) Chlorobenzene	10.079	112	988883	95.134	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	338141	96.621	ug/l		99
67) Ethyl Benzene	10.195	91	1752485	96.425	ug/l		99
68) m/p-Xylenes	10.299	106	1302405	191.494	ug/l		99
69) o-Xylene	10.640	106	624795	96.565	ug/l		99
70) Styrene	10.652	104	1072801	96.694	ug/l		100
71) Bromoform	10.799	173	259124	97.473	ug/l	#	99
73) Isopropylbenzene	10.963	105	1645804	99.034	ug/l		100
74) N-amyl acetate	10.841	43	698465	105.369	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	457057	96.283	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	514787	132.033	ug/l		82
77) Bromobenzene	11.195	156	389788	97.789	ug/l		99
78) n-propylbenzene	11.305	91	1945548	97.969	ug/l		99
79) 2-Chlorotoluene	11.366	91	1150165	96.889	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	1340151	97.612	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	158030	104.426	ug/l		97
82) 4-Chlorotoluene	11.451	91	1340796	96.766	ug/l		99
83) tert-Butylbenzene	11.713	119	1347206	97.765	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	1346982	98.362	ug/l		99
85) sec-Butylbenzene	11.890	105	1682208	97.702	ug/l		100
86) p-Isopropyltoluene	12.006	119	1404678	98.379	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	717851	94.782	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	726014	94.617	ug/l		98
89) n-Butylbenzene	12.329	91	1323274	98.826	ug/l		100
90) Hexachloroethane	12.536	117	260929	102.152	ug/l		100
91) 1,2-Dichlorobenzene	12.329	146	684462	94.557	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	97209	106.683	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	481866	100.755	ug/l		100
94) Hexachlorobutadiene	13.725	225	165153	101.539	ug/l		98
95) Naphthalene	13.774	128	1474039	105.135	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	464244	100.760	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047059.D
Acq On : 21 Jul 2025 11:11
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Jul 22 03:39:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

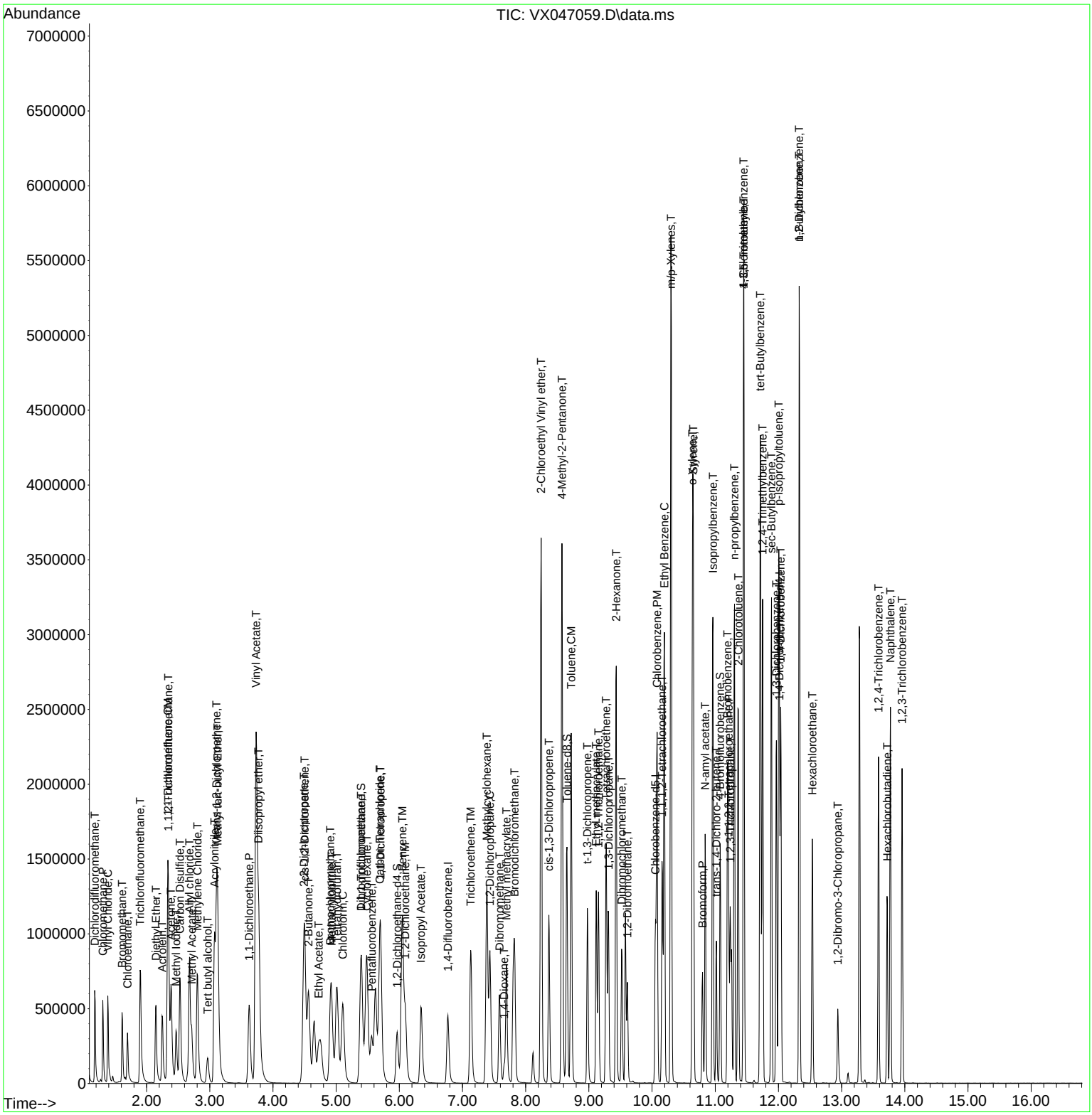
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

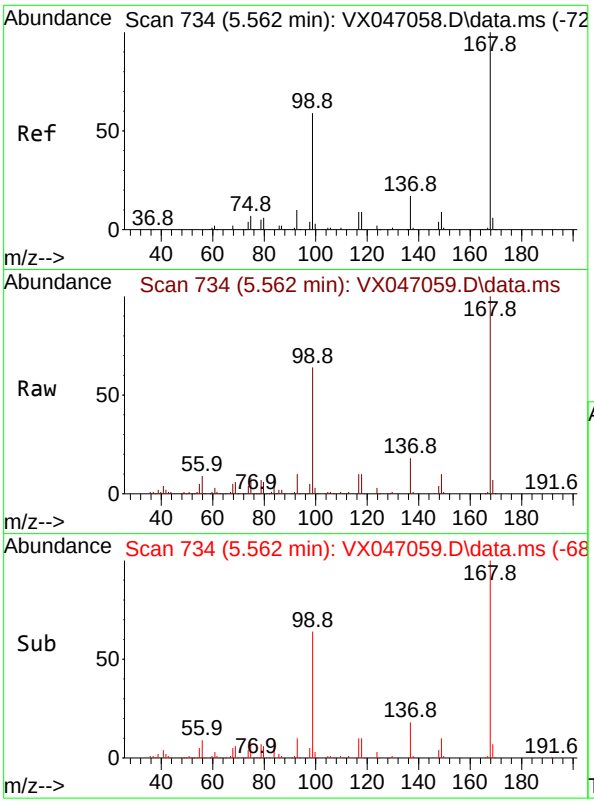
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047059.D
Acq On : 21 Jul 2025 11:11
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Jul 22 03:39:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration



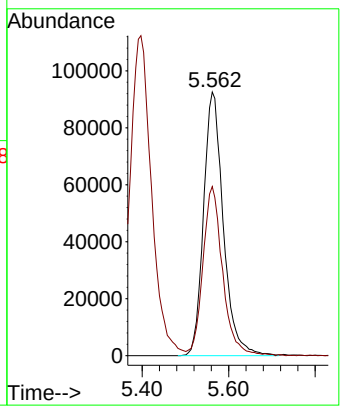


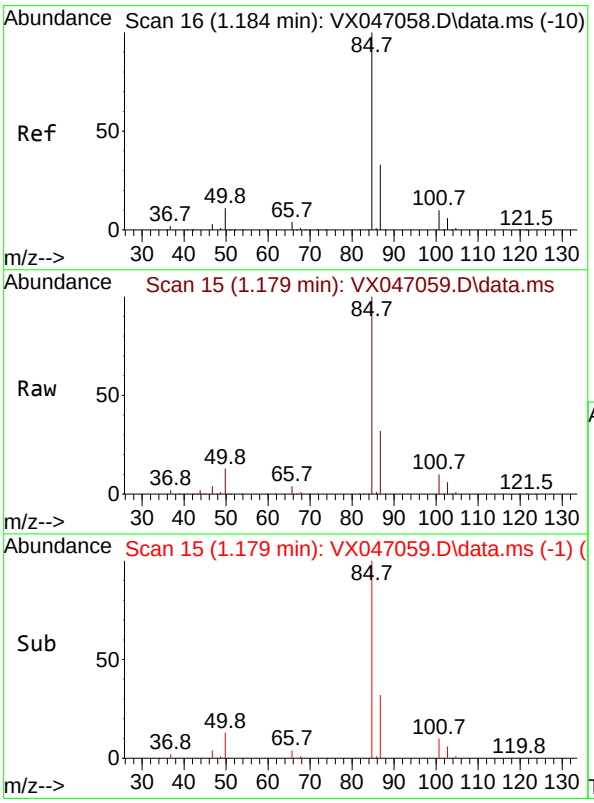
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 293211

Ion	Ratio	Lower	Upper
168	100		
99	63.8	48.0	72.0

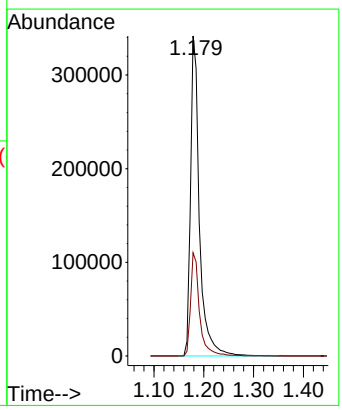


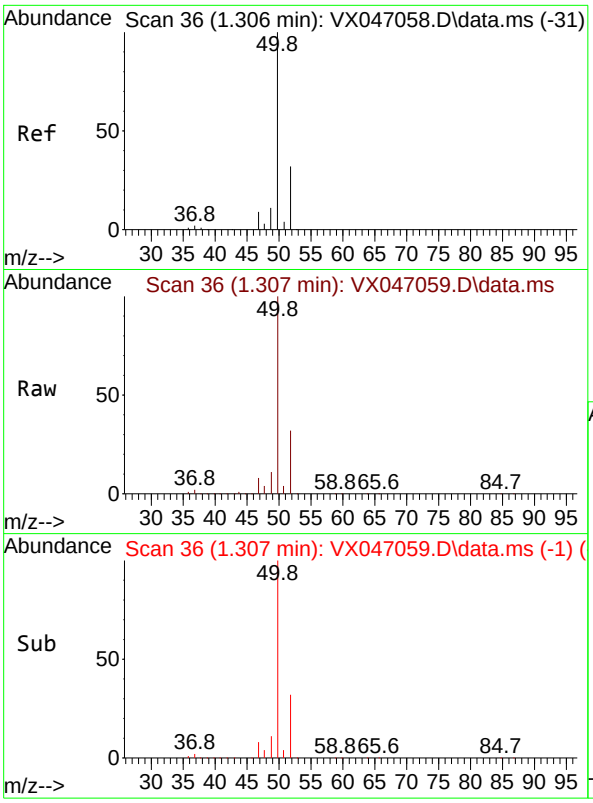


#2
Dichlorodifluoromethane
Concen: 108.536 ug/l
RT: 1.179 min Scan# 15
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 85 Resp: 422702

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8



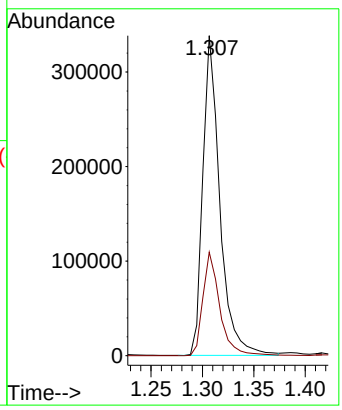


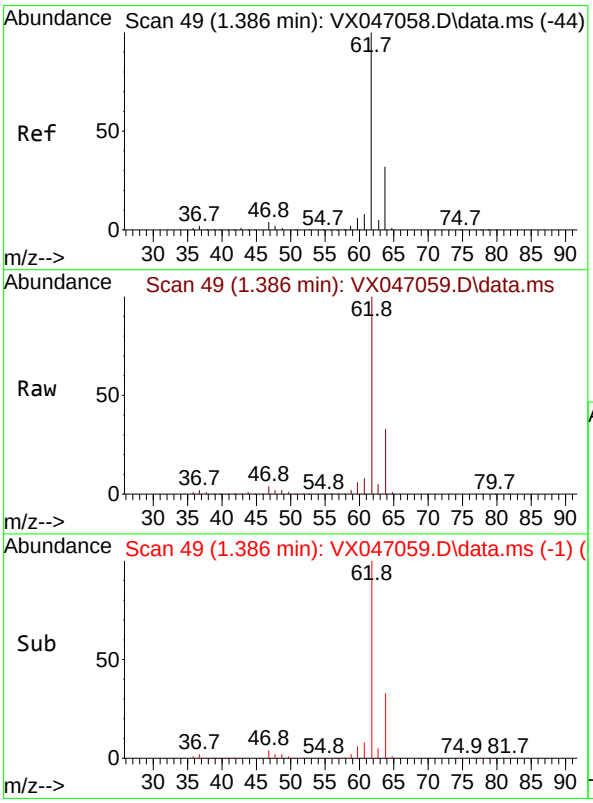
#3
Chloromethane
Concen: 101.483 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 390958

Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.4	38.2

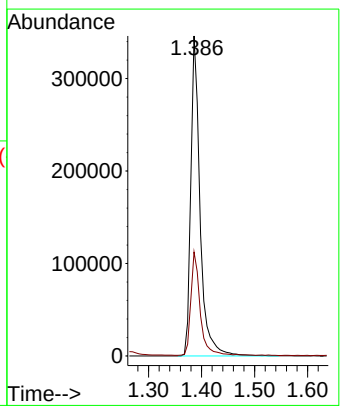


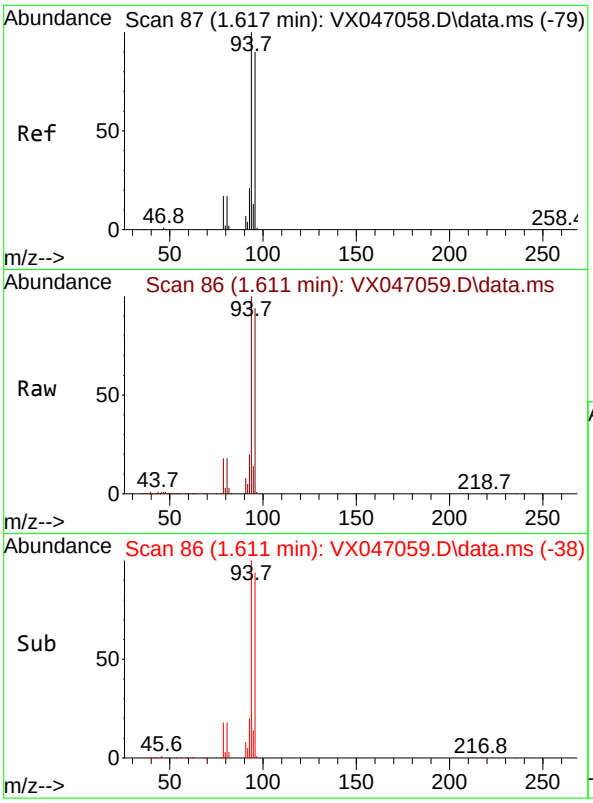


#4
Vinyl Chloride
Concen: 101.428 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 62 Resp: 420036

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.2	37.8



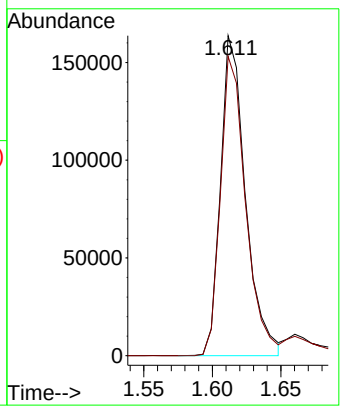


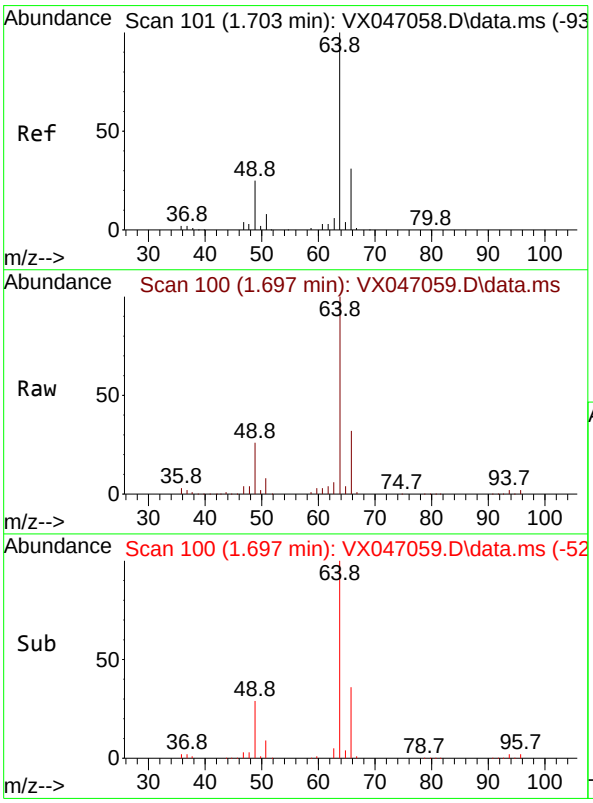
#5
Bromomethane
Concen: 92.097 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 207177

Ion	Ratio	Lower	Upper
94	100		
96	94.6	72.3	108.5

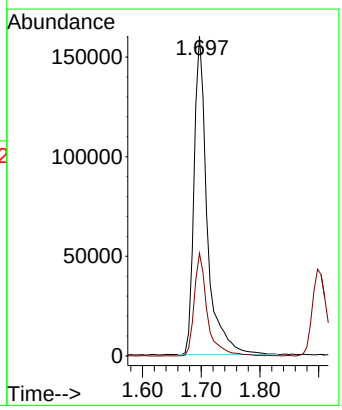


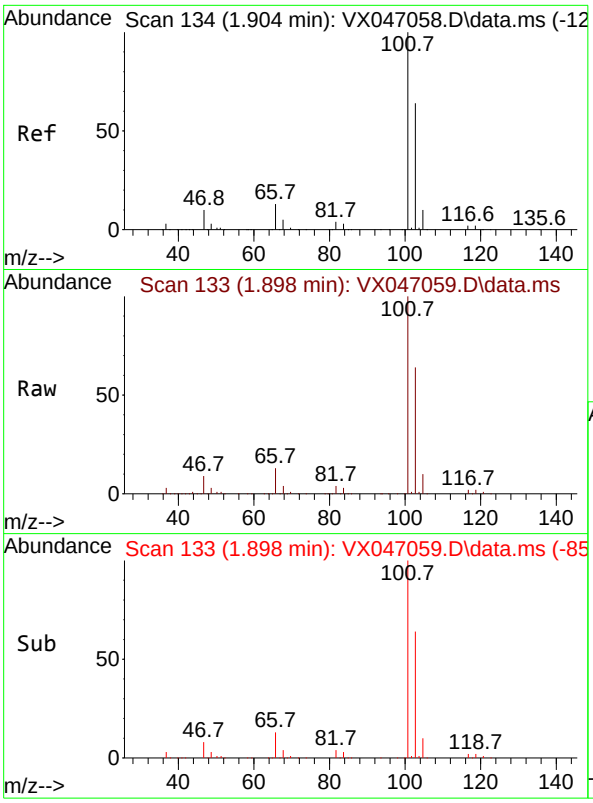


#6
Chloroethane
Concen: 91.235 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 64 Resp: 248151

Ion	Ratio	Lower	Upper
64	100		
66	32.2	25.0	37.6



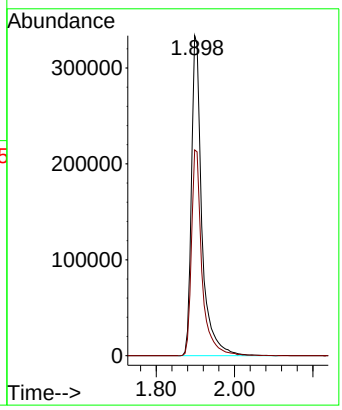


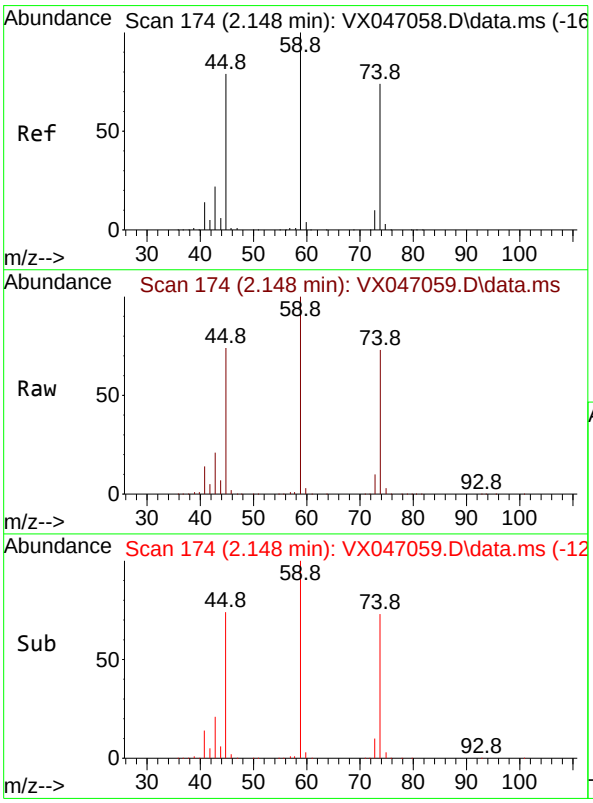
#7
Trichlorofluoromethane
Concen: 100.093 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 618083

Ion	Ratio	Lower	Upper
101	100		
103	64.3	50.9	76.3

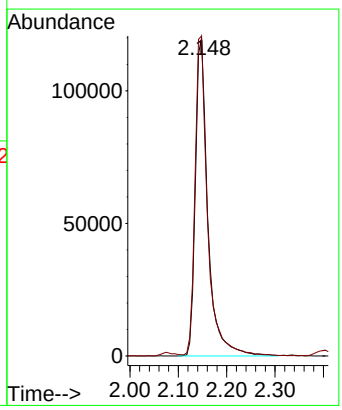


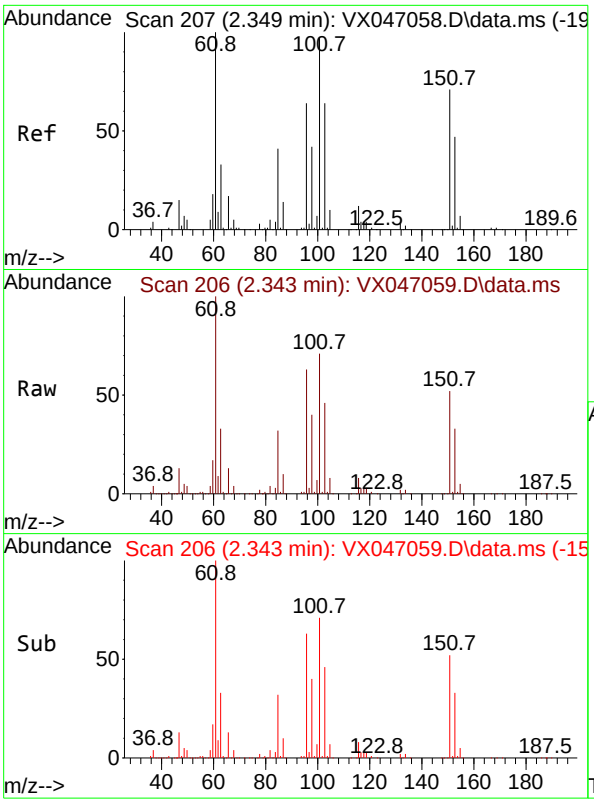


#8
Diethyl Ether
Concen: 98.730 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 74 Resp: 214962

Ion	Ratio	Lower	Upper
74	100		
45	101.2	53.0	159.0



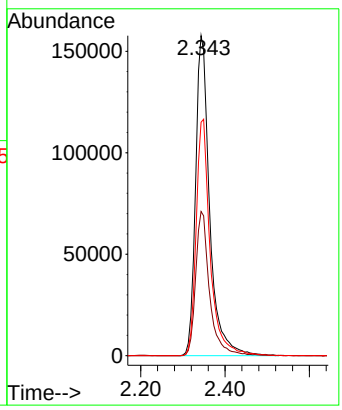


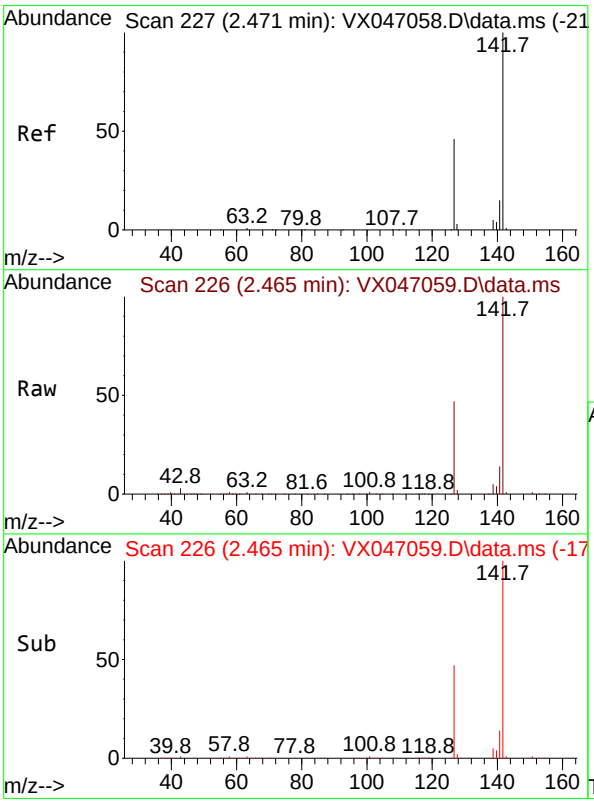
#9
1,1,2-Trichlorotrifluoroethane
Concen: 98.771 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 367465

Ion	Ratio	Lower	Upper
101	100		
85	44.5	35.4	53.0
151	73.7	59.2	88.8

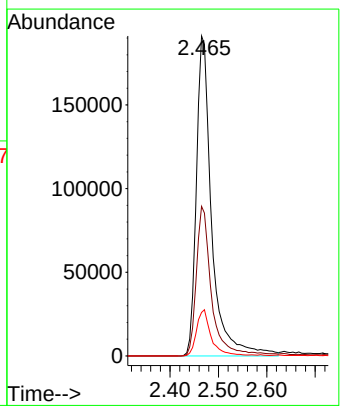


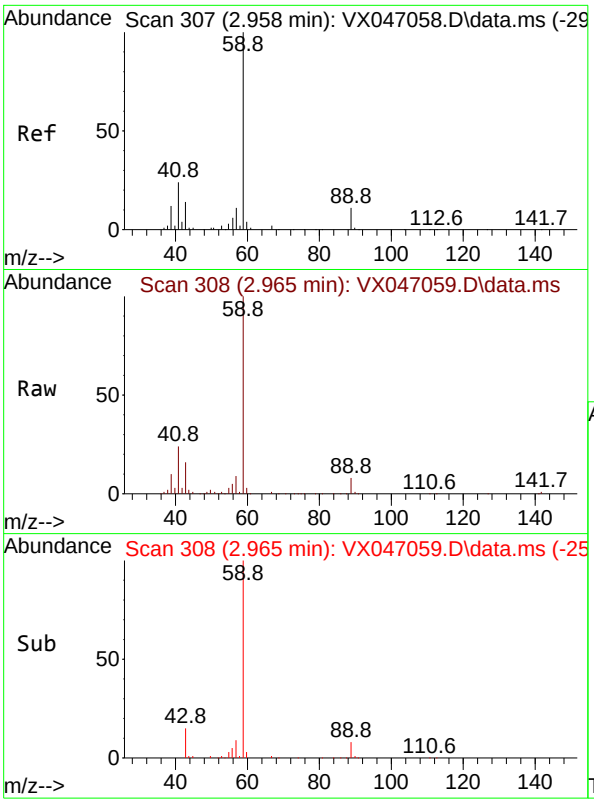


#10
Methyl Iodide
Concen: 111.100 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:142 Resp: 421251

Ion	Ratio	Lower	Upper
142	100		
127	46.5	36.6	54.8
141	13.7	10.9	16.3



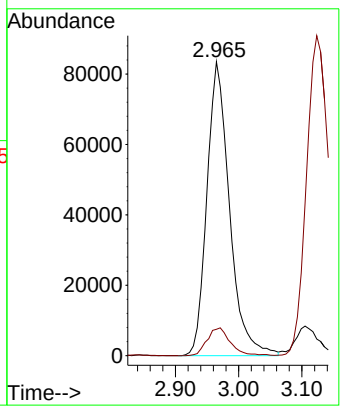


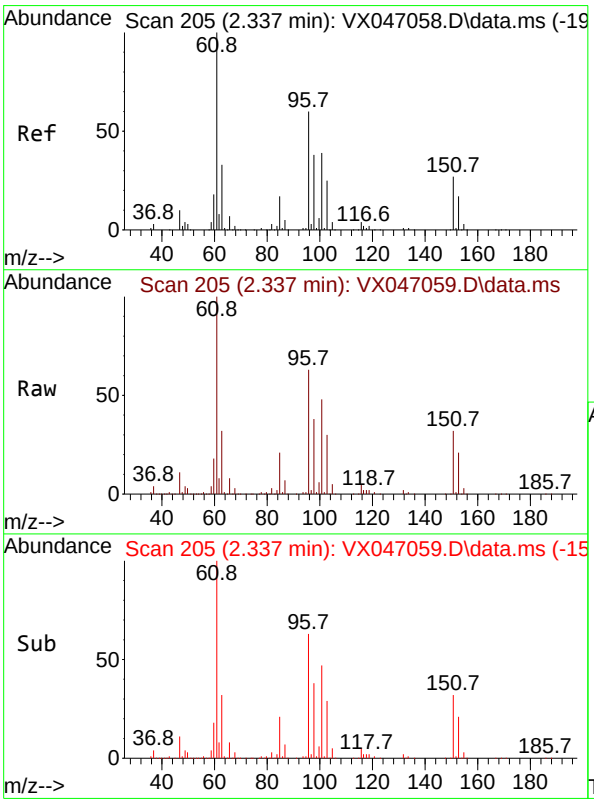
#11
Tert butyl alcohol
Concen: 496.373 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 207609

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.5	12.7

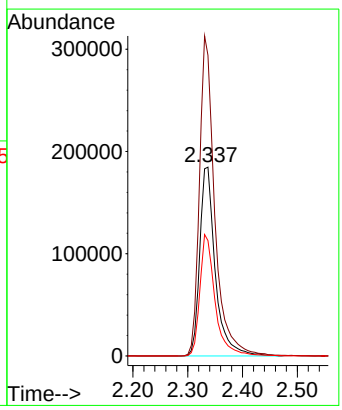


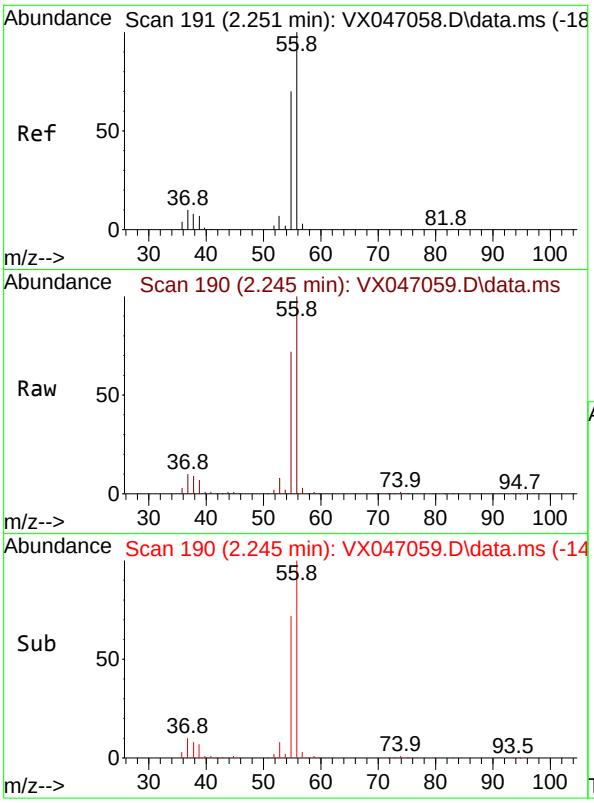


#12
1,1-Dichloroethene
Concen: 99.237 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 96 Resp: 365672

Ion	Ratio	Lower	Upper
96	100		
61	159.2	132.6	198.8
98	61.1	50.2	75.4



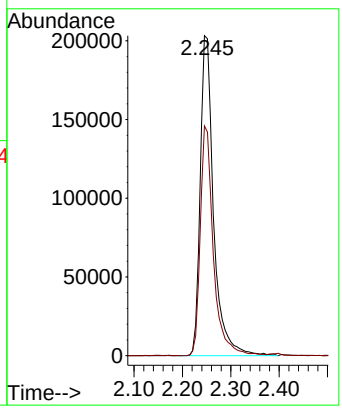


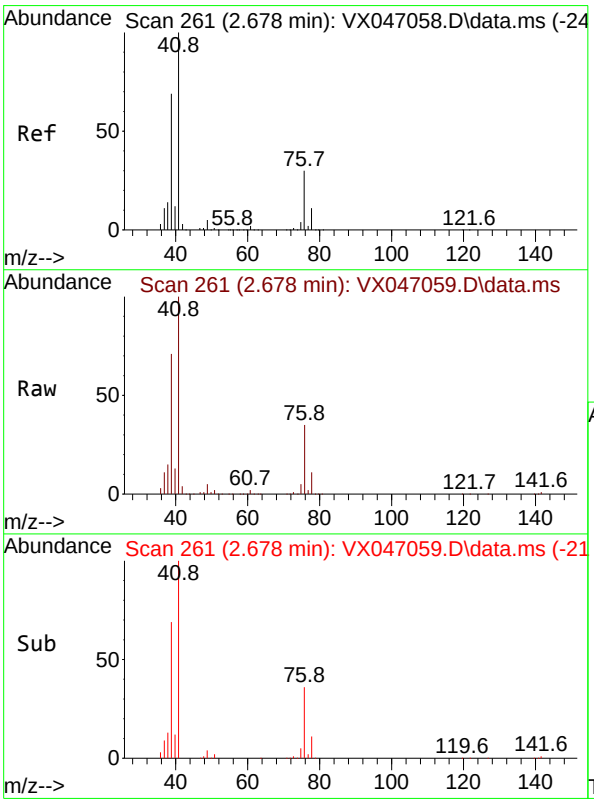
#13
Acrolein
Concen: 496.280 ug/l
RT: 2.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 390297

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.7	83.5

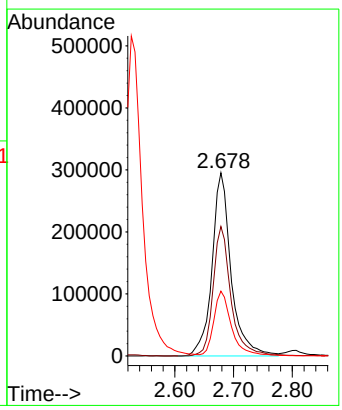


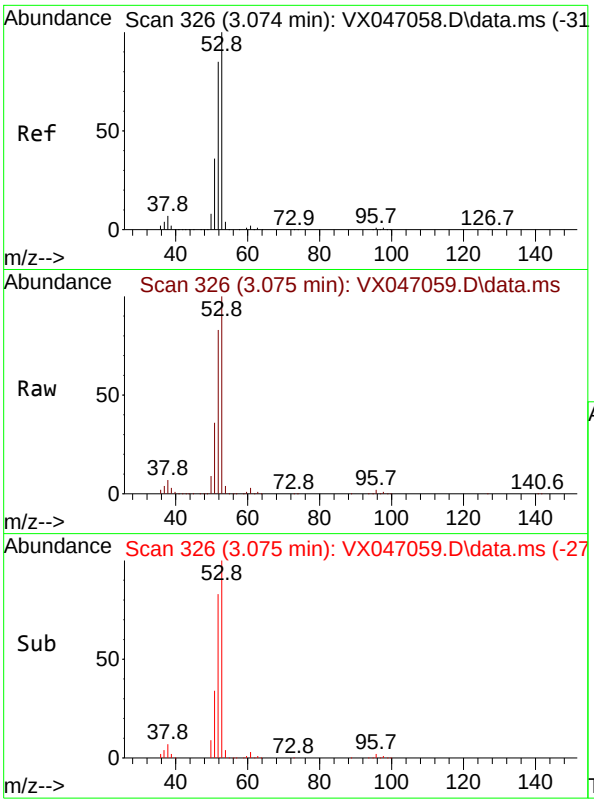


#14
Allyl chloride
Concen: 100.294 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 41 Resp: 668038

Ion	Ratio	Lower	Upper
41	100		
39	66.1	52.6	78.8
76	32.9	25.7	38.5



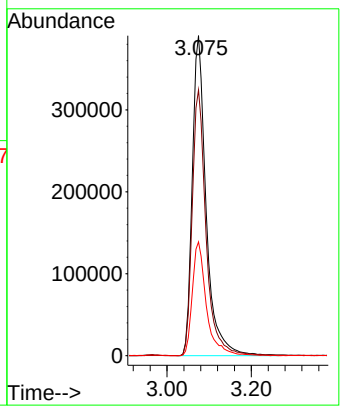


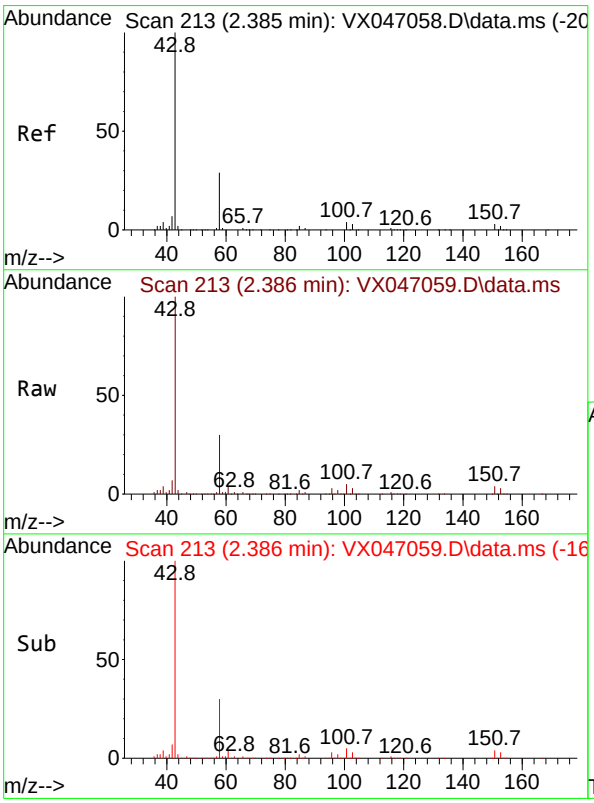
#15
Acrylonitrile
Concen: 514.199 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 895719

Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.7	98.5
51	36.3	28.8	43.2

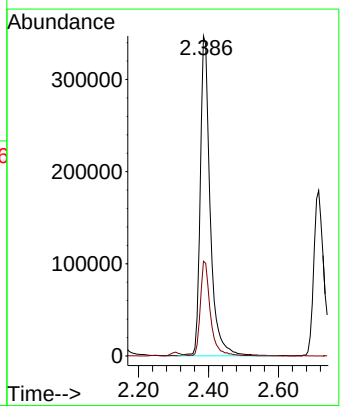


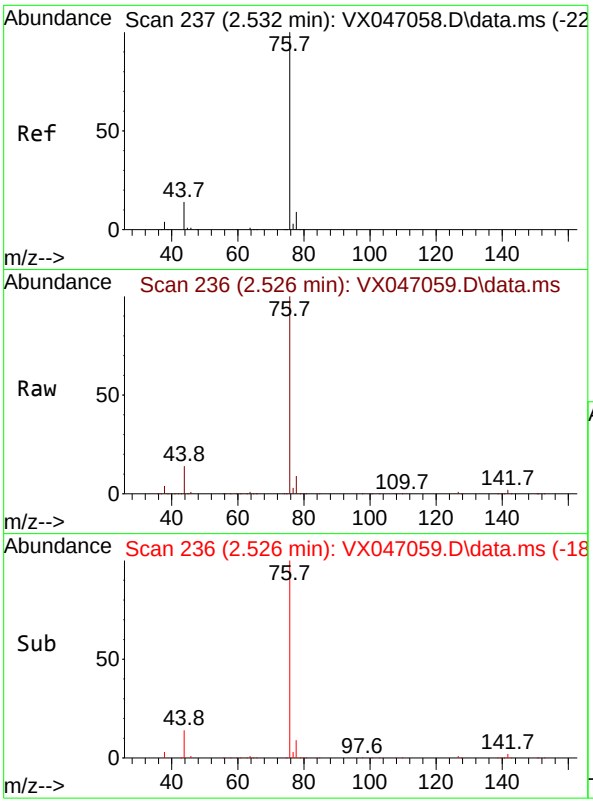


#16
Acetone
Concen: 465.214 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 43 Resp: 680698

Ion	Ratio	Lower	Upper
43	100		
58	29.7	24.0	36.0



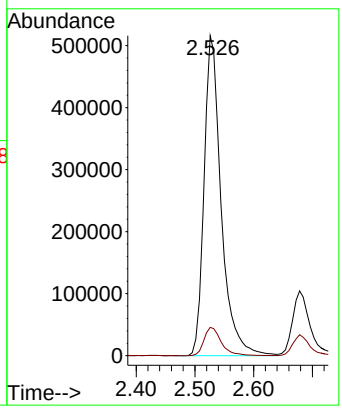


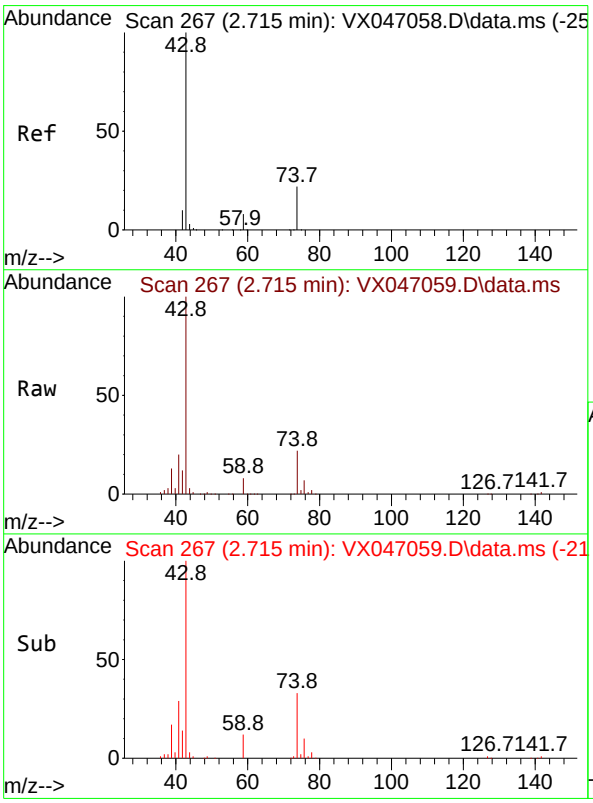
#17
Carbon Disulfide
Concen: 98.086 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 1045599

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4

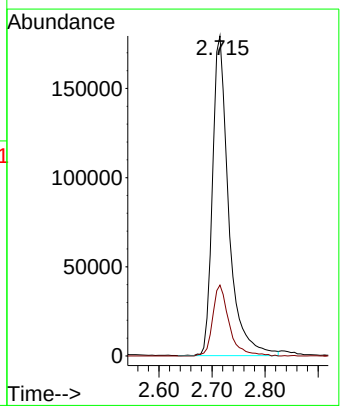


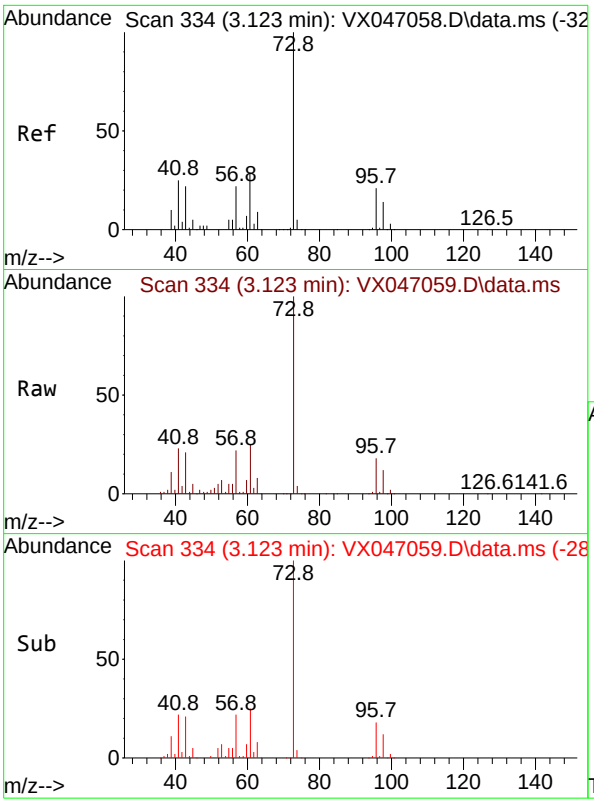


#18
Methyl Acetate
Concen: 98.118 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 43 Resp: 381521

Ion	Ratio	Lower	Upper
43	100		
74	22.5	17.7	26.5



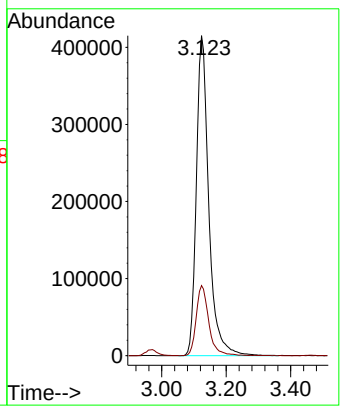


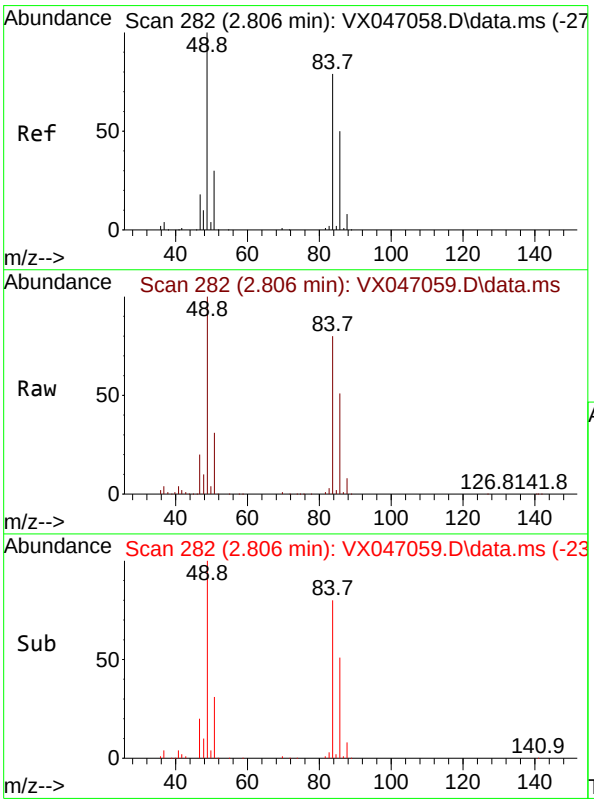
#19
Methyl tert-butyl Ether
Concen: 98.907 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 1109184

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.7	26.5

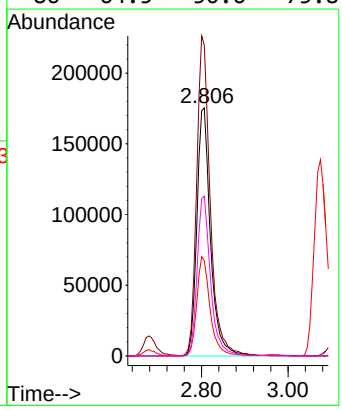


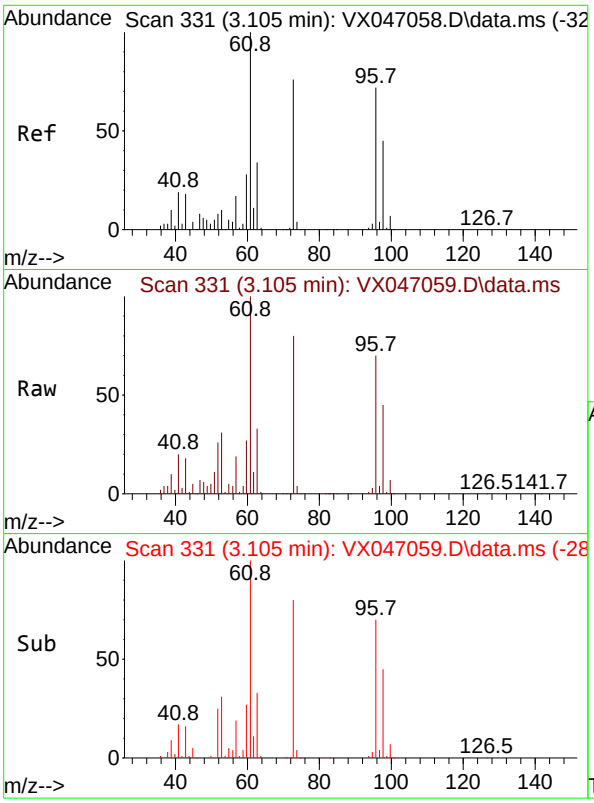


#20
Methylene Chloride
Concen: 95.122 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 84 Resp: 382904

Ion	Ratio	Lower	Upper
84	100		
49	125.1	101.6	152.4
51	38.3	30.3	45.5
86	64.5	50.6	75.8



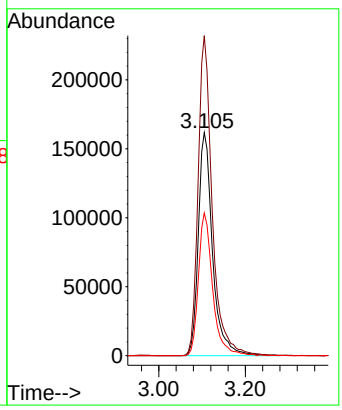


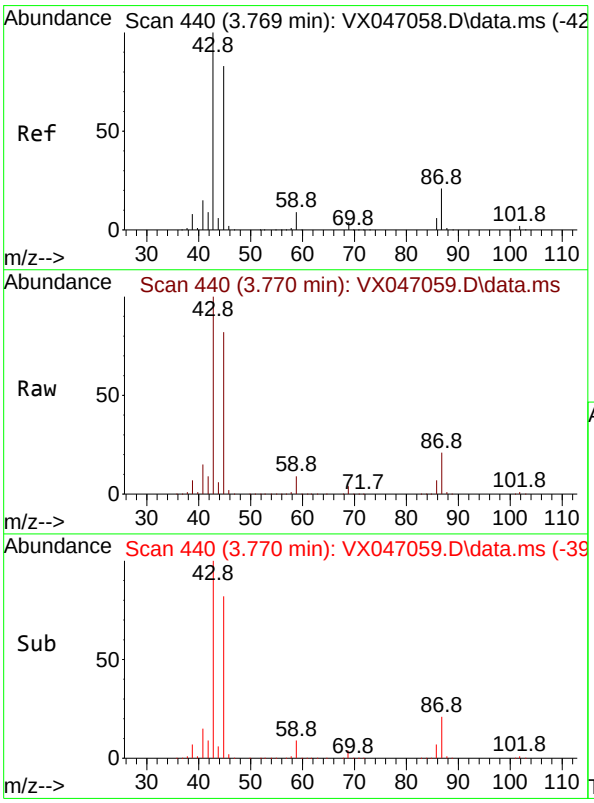
#21
trans-1,2-Dichloroethene
Concen: 98.339 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 370810

Ion	Ratio	Lower	Upper
96	100		
61	143.5	111.1	166.7
98	64.0	49.6	74.4

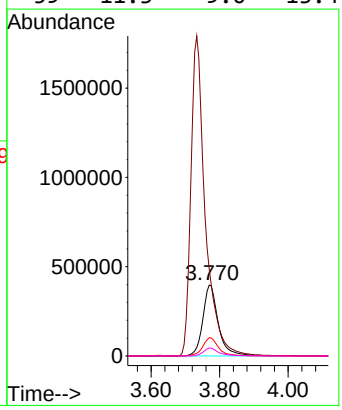


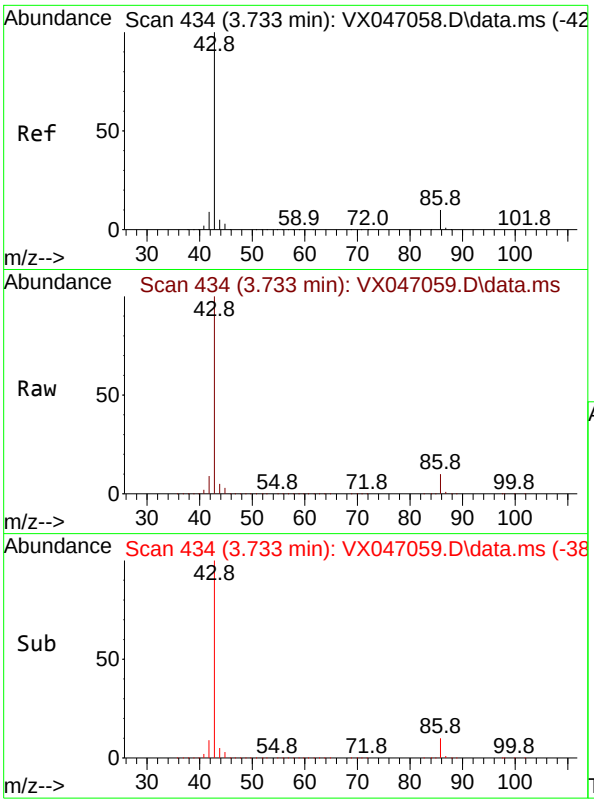


#22
Diisopropyl ether
Concen: 97.342 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 45 Resp: 1246566

Ion	Ratio	Lower	Upper
45	100		
43	121.8	96.8	145.2
87	25.7	20.5	30.7
59	11.3	9.0	13.4



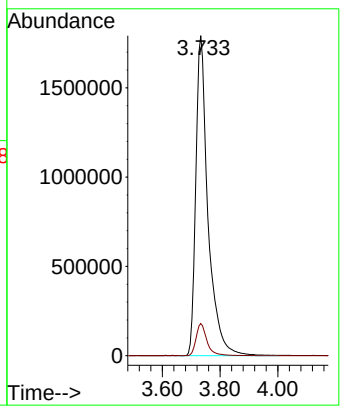


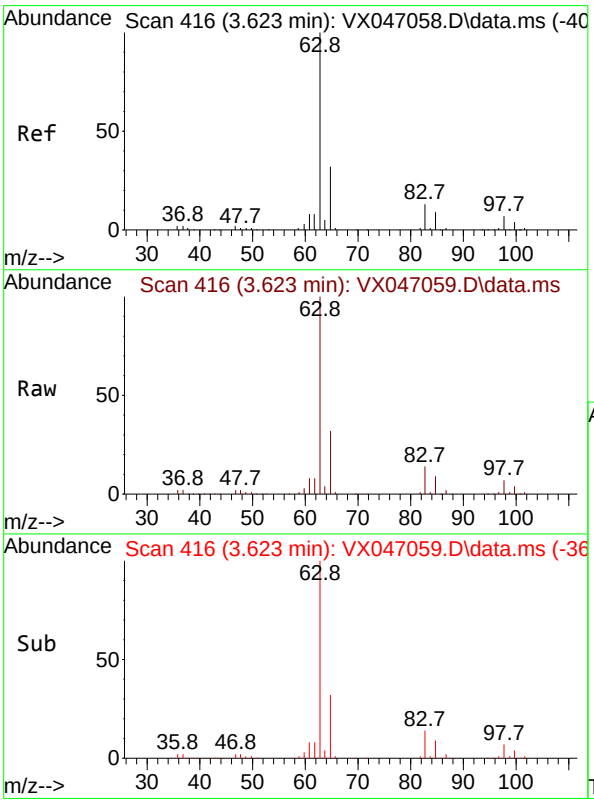
#23
Vinyl Acetate
Concen: 511.682 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 5255654

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

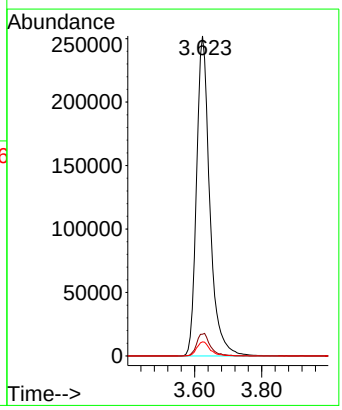


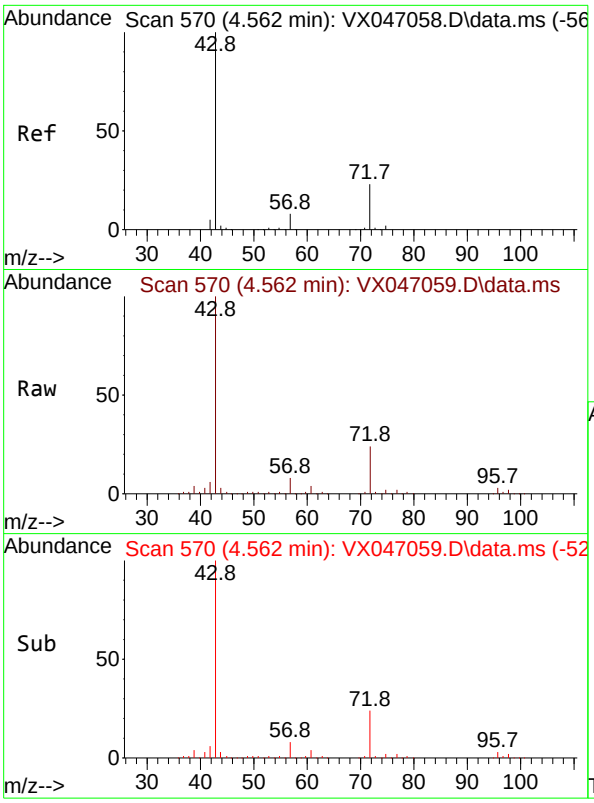


#24
1,1-Dichloroethane
Concen: 96.903 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 63 Resp: 690059

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.6	10.8
100	4.4	2.3	6.8



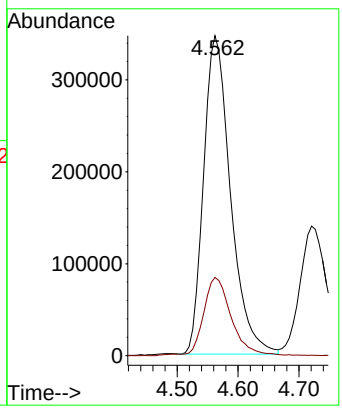


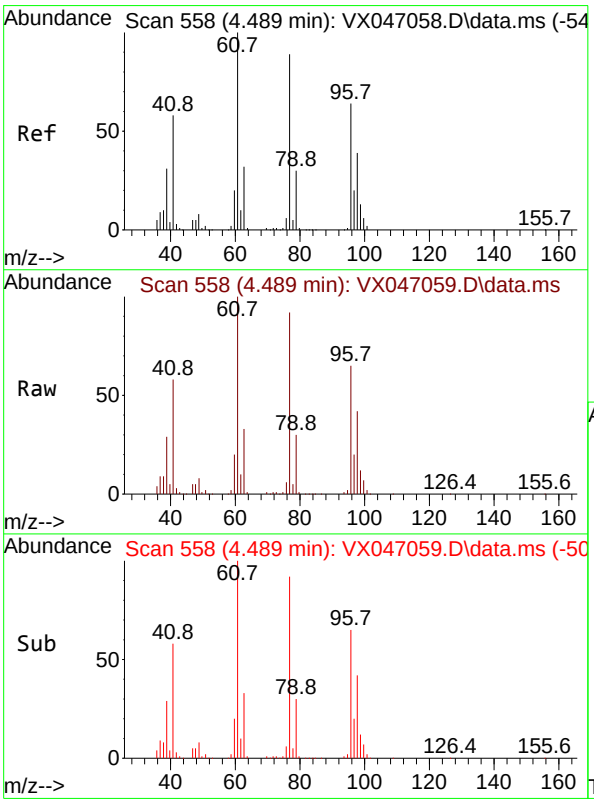
#25
2-Butanone
Concen: 499.825 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1064894

Ion	Ratio	Lower	Upper
43	100		
72	24.2	18.8	28.2

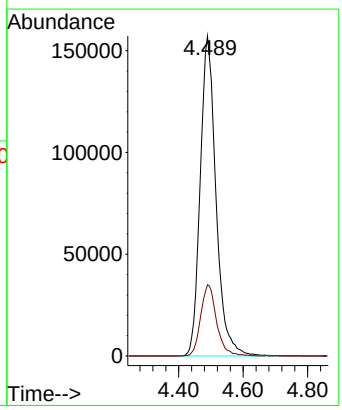


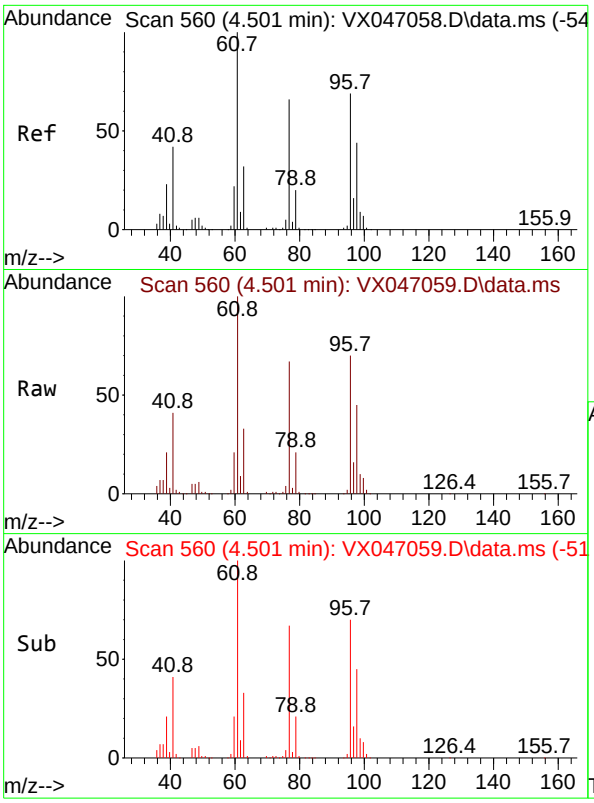


#26
2,2-Dichloropropane
Concen: 96.986 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 77 Resp: 534633

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.4	34.1



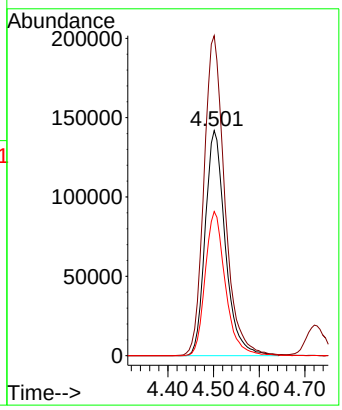


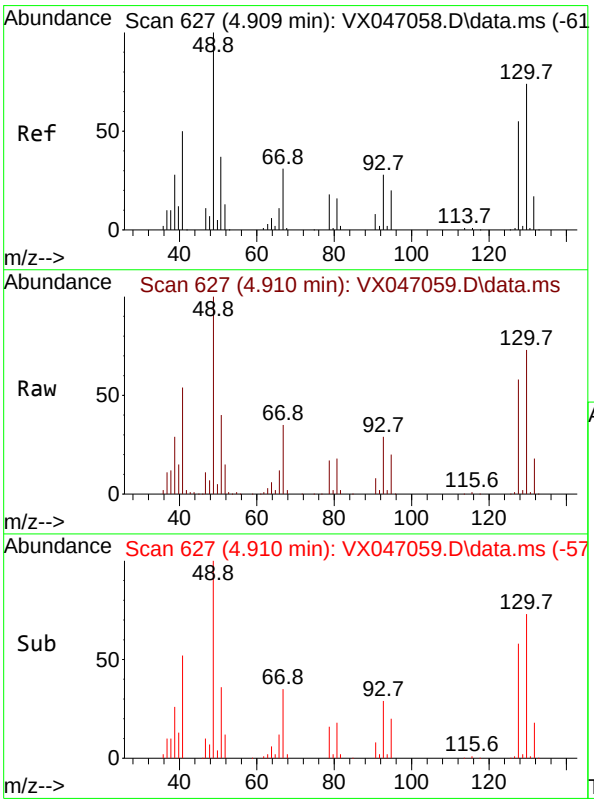
#27
cis-1,2-Dichloroethene
Concen: 97.026 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 433236

Ion	Ratio	Lower	Upper
96	100		
61	147.5	0.0	298.6
98	64.3	0.0	128.8

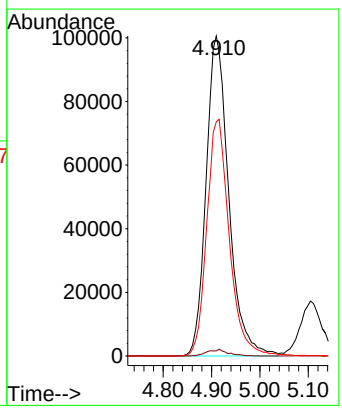


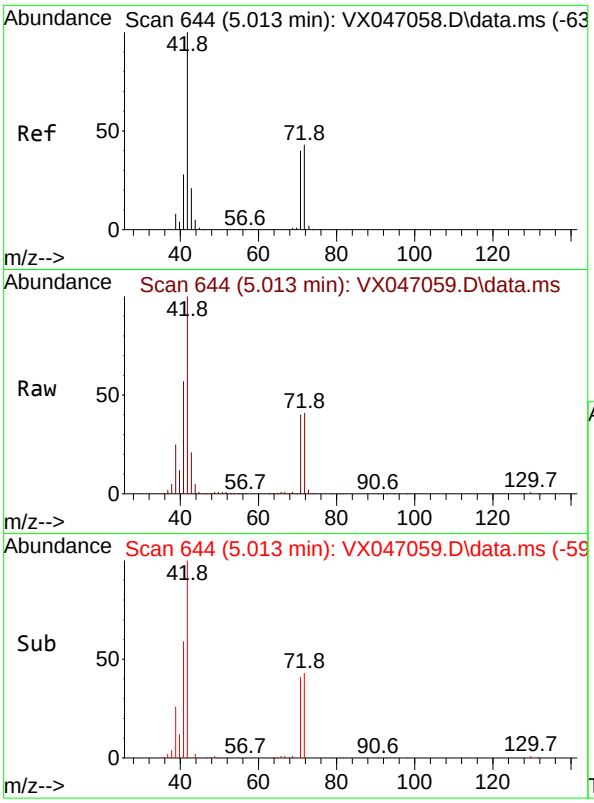


#28
Bromochloromethane
Concen: 99.974 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 49 Resp: 327531

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	73.6	59.0	88.4



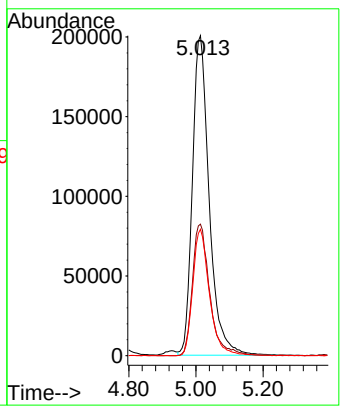


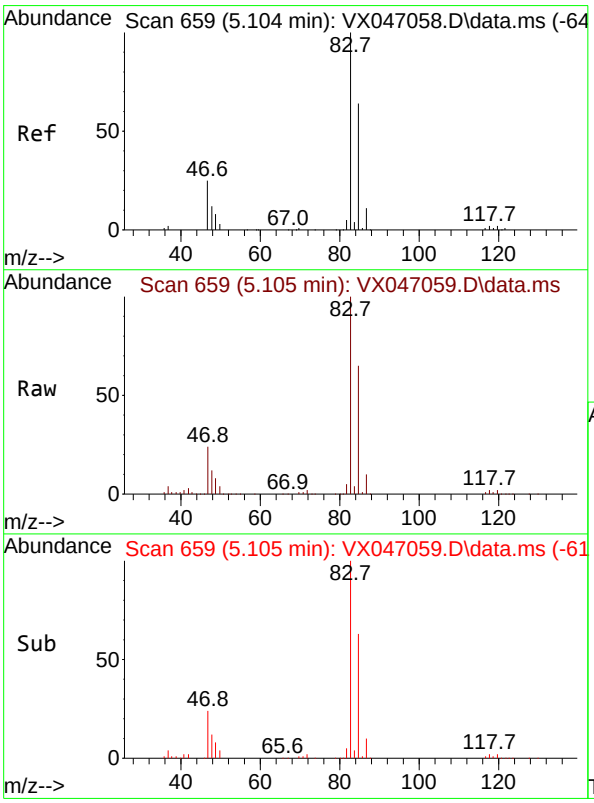
#29
Tetrahydrofuran
Concen: 506.702 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 696538

Ion	Ratio	Lower	Upper
42	100		
72	42.6	33.7	50.5
71	39.4	31.0	46.4

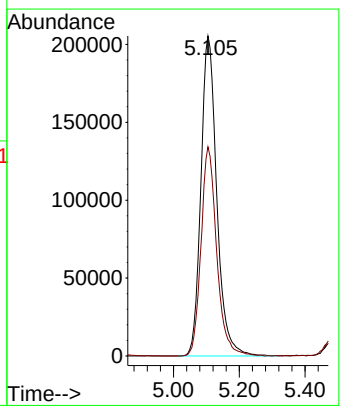


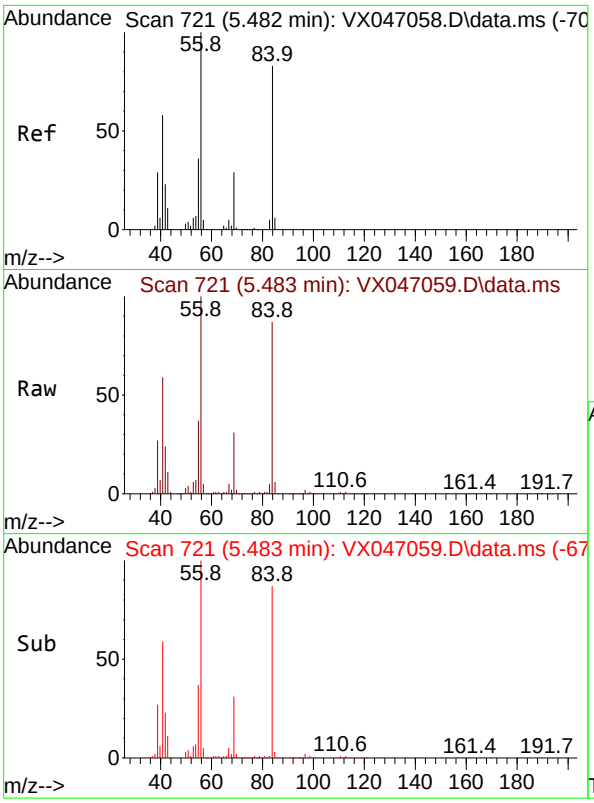


#30
Chloroform
Concen: 95.036 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 83 Resp: 688904

Ion	Ratio	Lower	Upper
83	100		
85	65.4	50.9	76.3



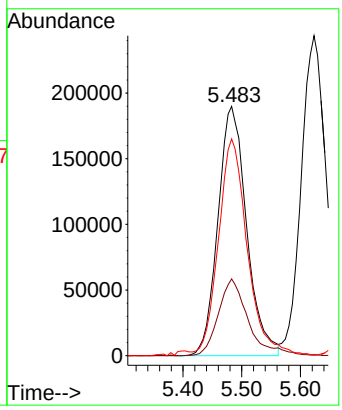


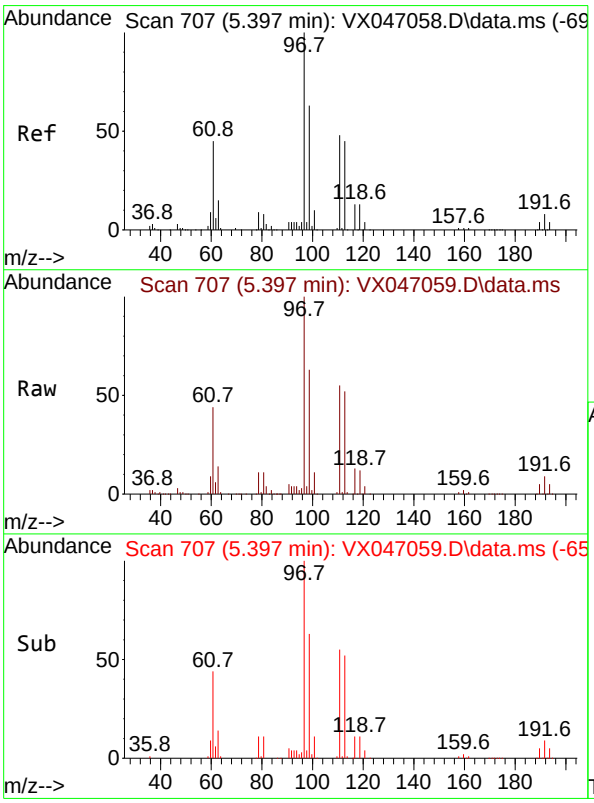
#31
Cyclohexane
Concen: 94.354 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 644257

Ion	Ratio	Lower	Upper
56	100		
69	30.4	23.3	34.9
84	85.3	66.5	99.7

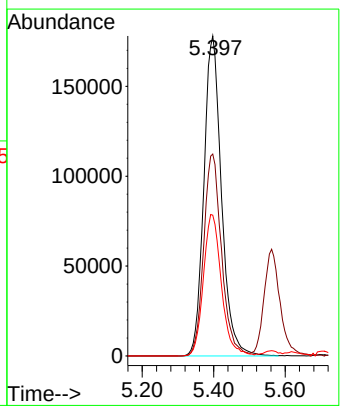


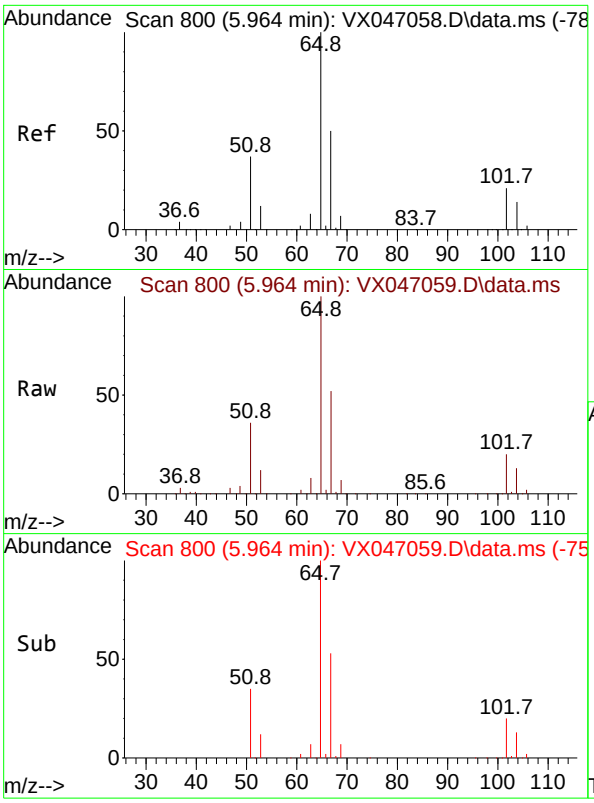


#32
1,1,1-Trichloroethane
Concen: 96.931 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 97 Resp: 610295

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.2	76.8
61	45.1	37.1	55.7



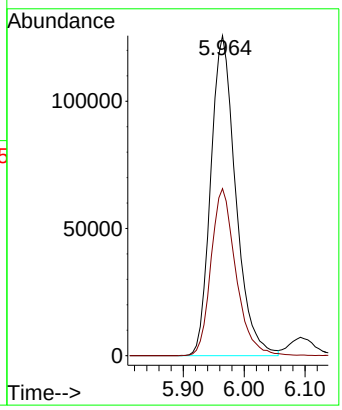


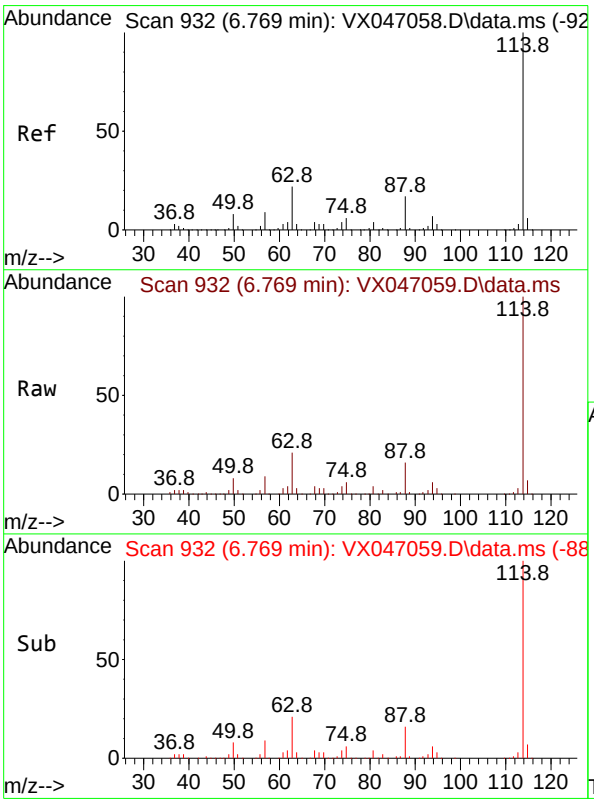
#33
1,2-Dichloroethane-d4
Concen: 98.067 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 358189

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	104.8

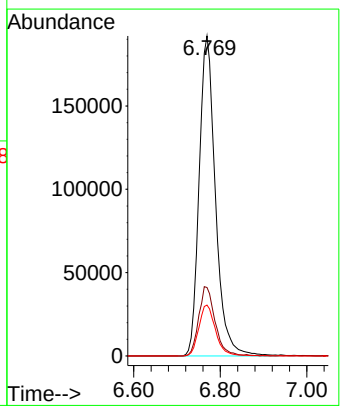


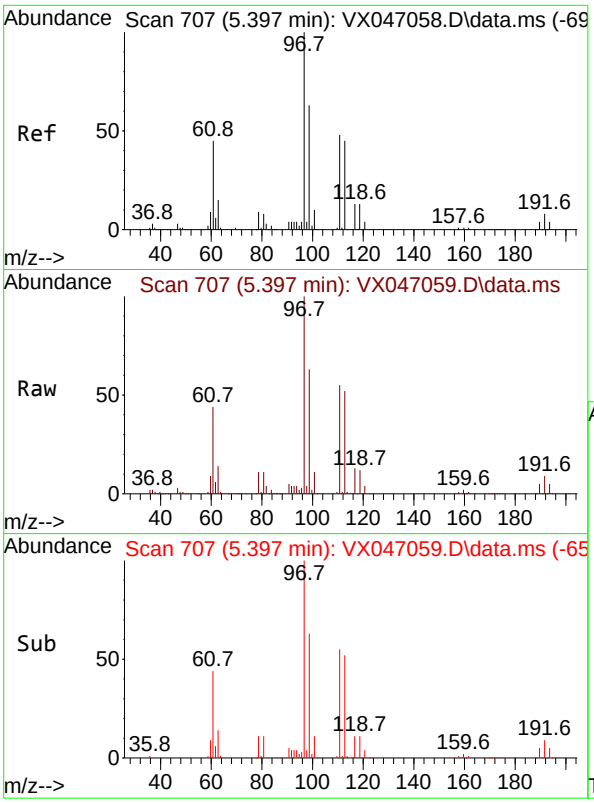


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:114 Resp: 502636

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	43.2
88	15.9	0.0	33.8



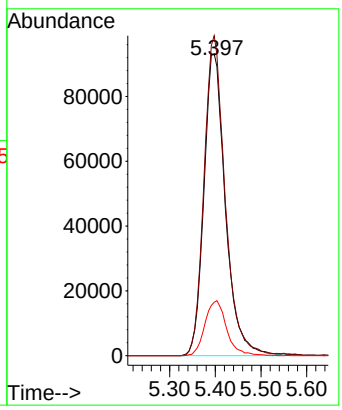


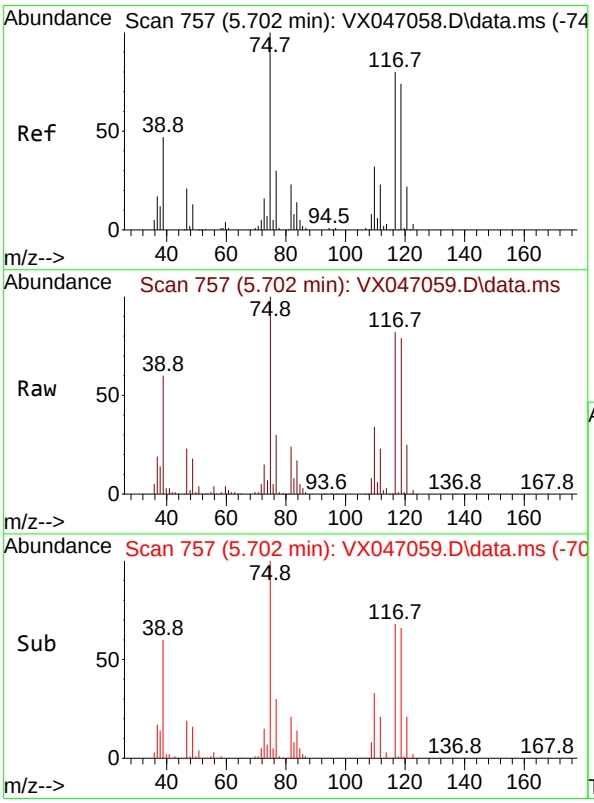
#35
Dibromofluoromethane
Concen: 97.981 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 304077

Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.6	124.0
192	18.4	14.9	22.3

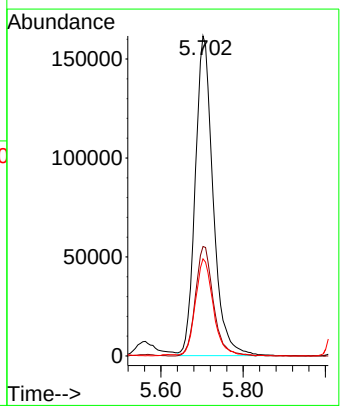


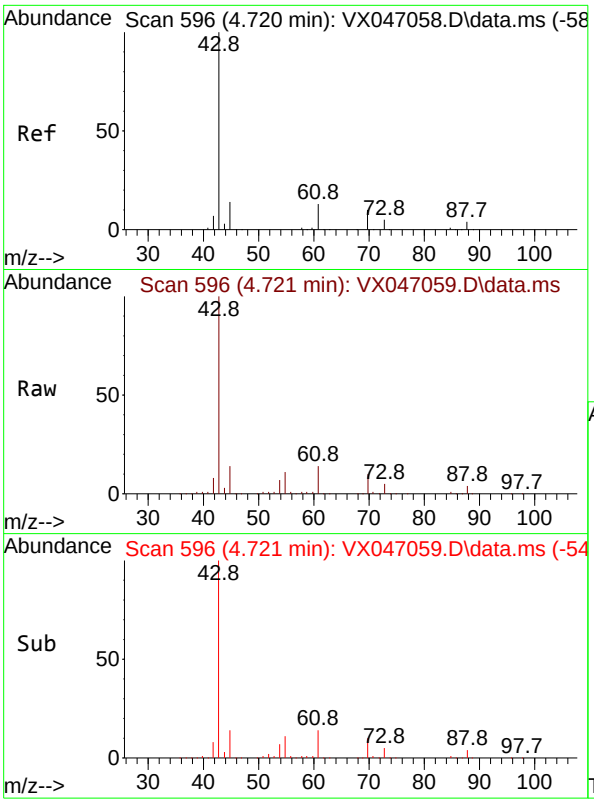


#36
1,1-Dichloropropene
Concen: 92.052 ug/l
RT: 5.702 min Scan# 757
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 75 Resp: 486962

Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.2	51.5
77	30.5	25.1	37.7



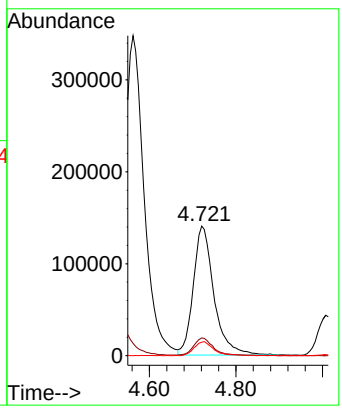


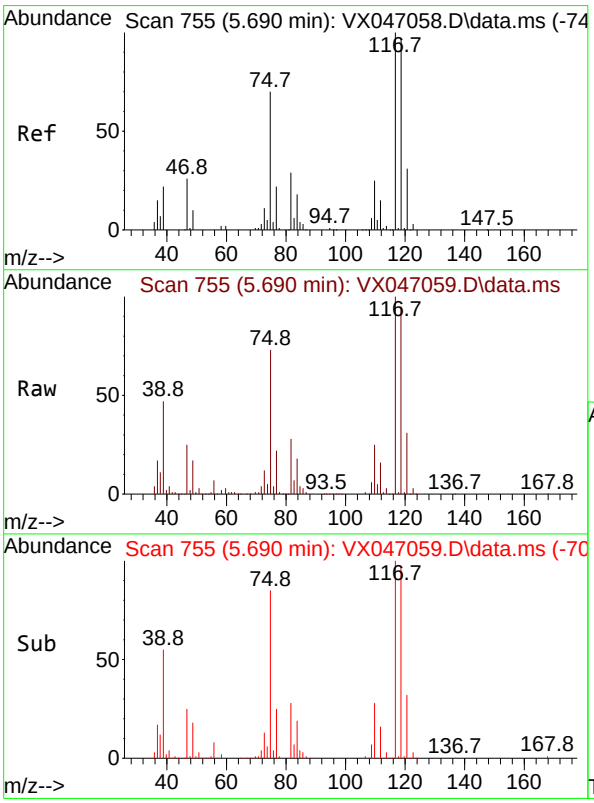
#37
Ethyl Acetate
Concen: 99.573 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 464215

Ion	Ratio	Lower	Upper
43	100		
61	13.0	10.2	15.2
70	10.3	8.1	12.1

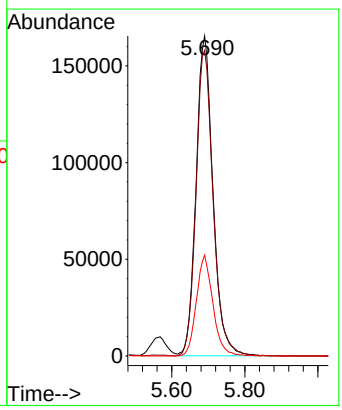


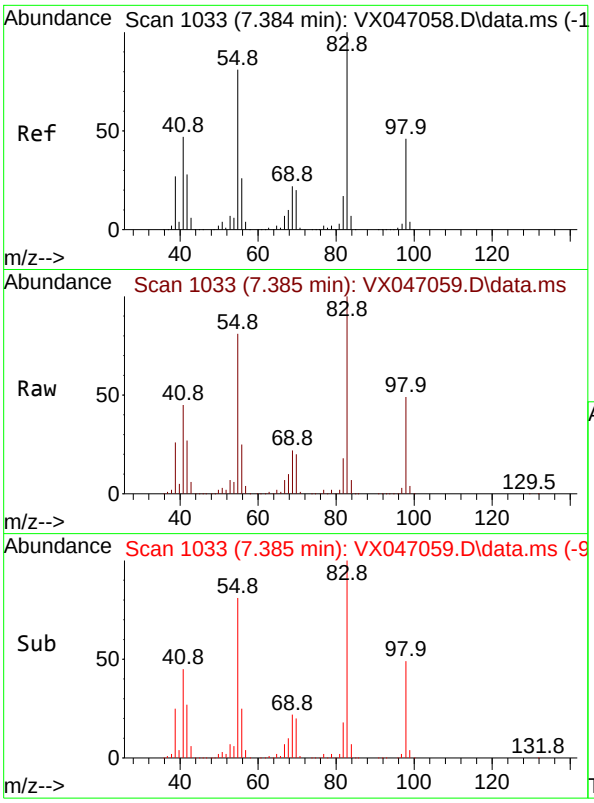


#38
Carbon Tetrachloride
Concen: 94.597 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:117 Resp: 534117

Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.6	115.0
121	31.5	24.4	36.6



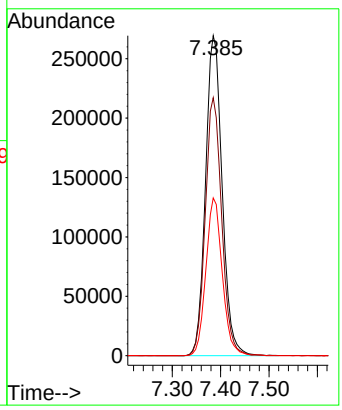


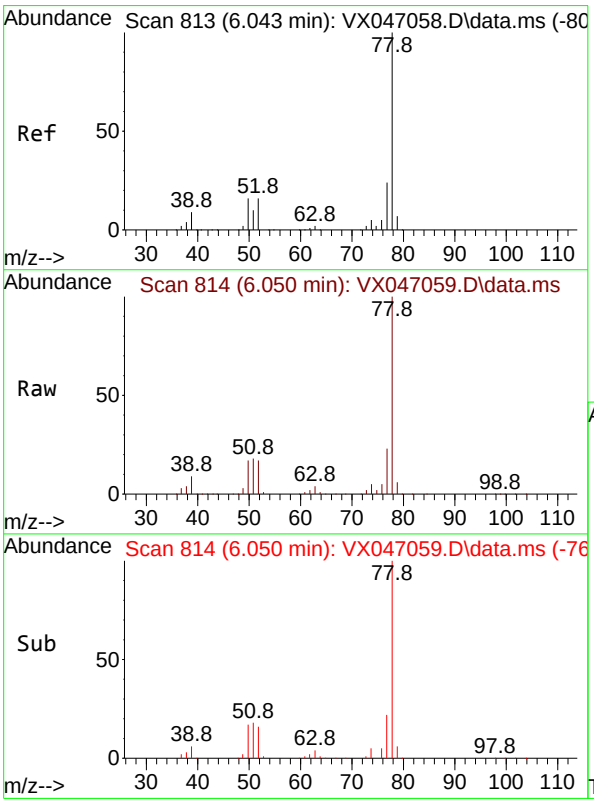
#39
Methylcyclohexane
Concen: 97.426 ug/l
RT: 7.385 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 643495

Ion	Ratio	Lower	Upper
83	100		
55	80.6	64.5	96.7
98	49.3	36.9	55.3

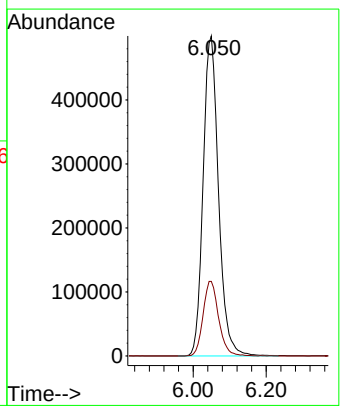


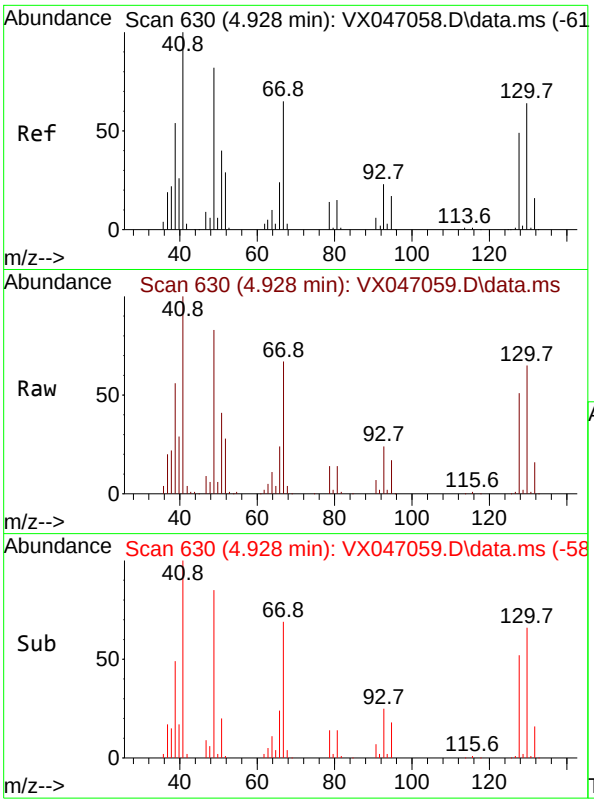


#40
Benzene
Concen: 95.282 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 78 Resp: 1458721

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.4



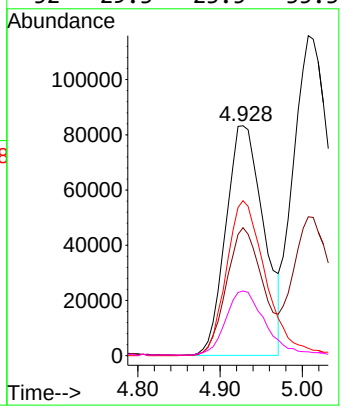


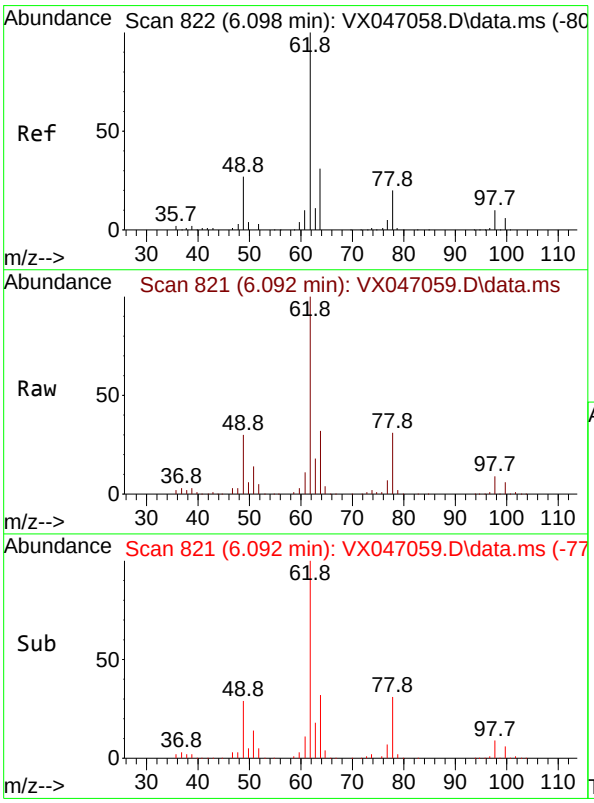
#41
Methacrylonitrile
Concen: 104.648 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 266722

Ion	Ratio	Lower	Upper
41	100		
39	53.6	44.2	66.2
67	71.1	56.4	84.6
52	29.3	23.5	35.3

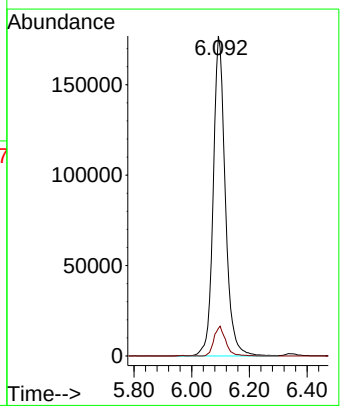


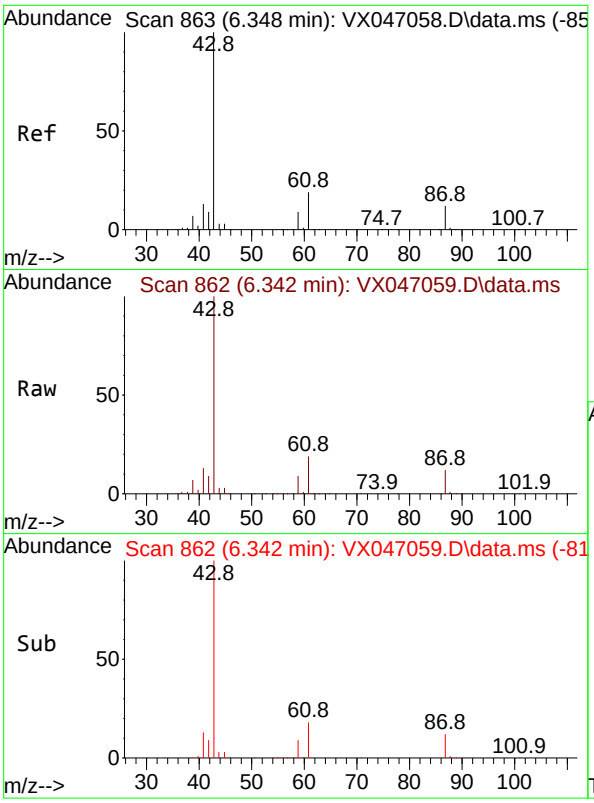


#42
1,2-Dichloroethane
Concen: 95.493 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 62 Resp: 514986

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.8



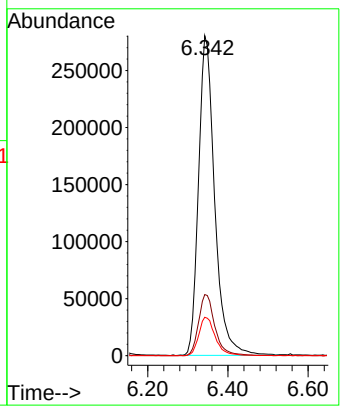


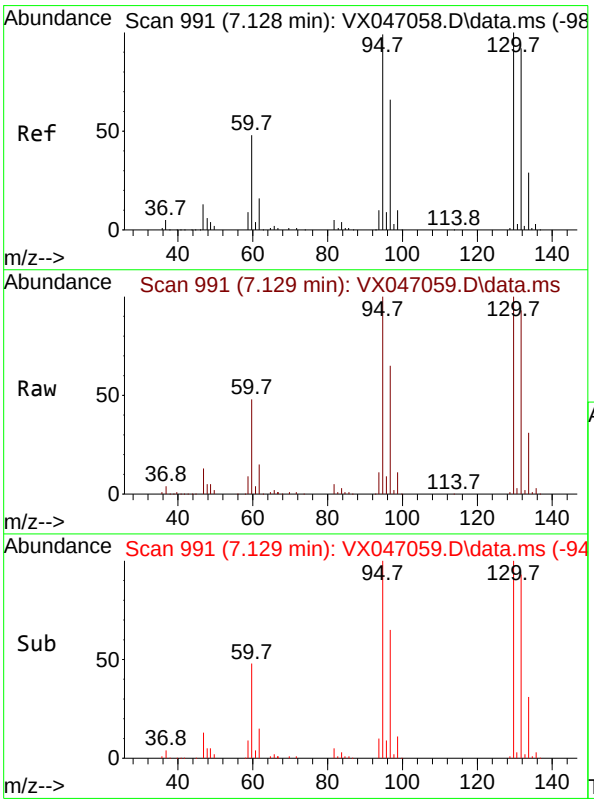
#43
Isopropyl Acetate
Concen: 103.002 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 782743

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.1	22.7
87	12.3	9.7	14.5

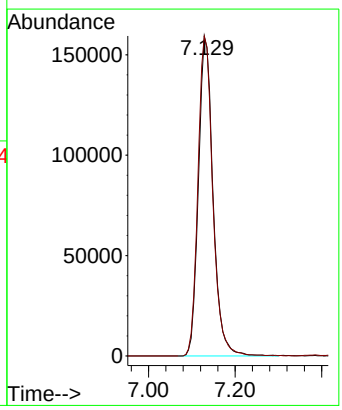


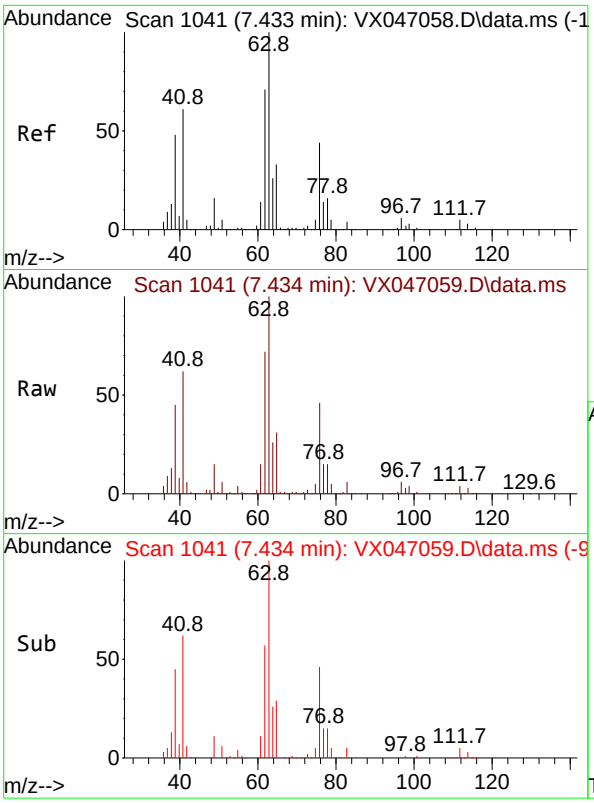


#44
Trichloroethene
Concen: 94.887 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:130 Resp: 372515

Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	198.6



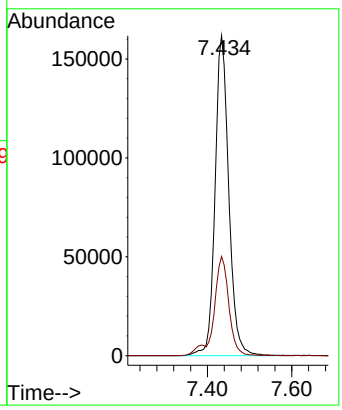


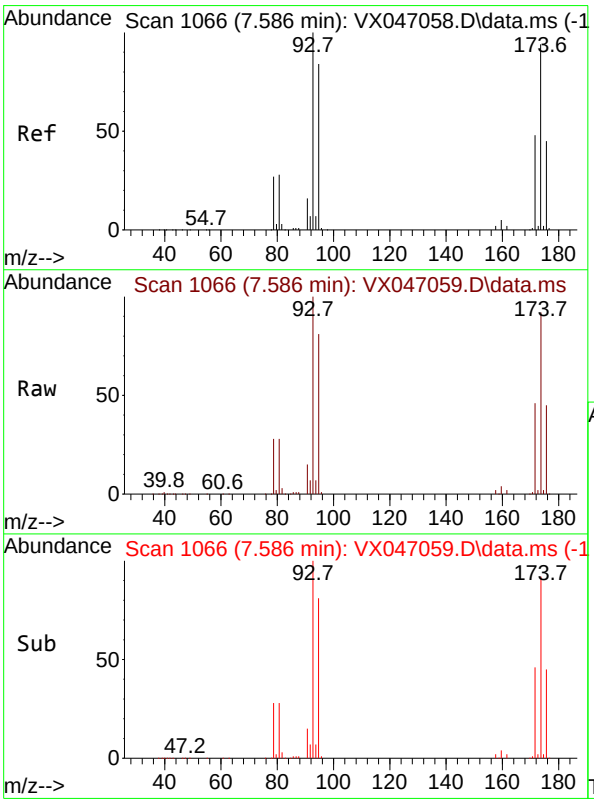
#45
1,2-Dichloropropane
Concen: 95.131 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 364769

Ion	Ratio	Lower	Upper
63	100		
65	31.0	26.3	39.5

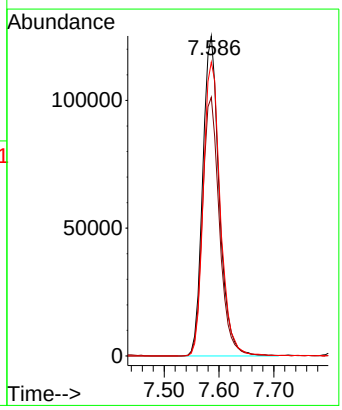


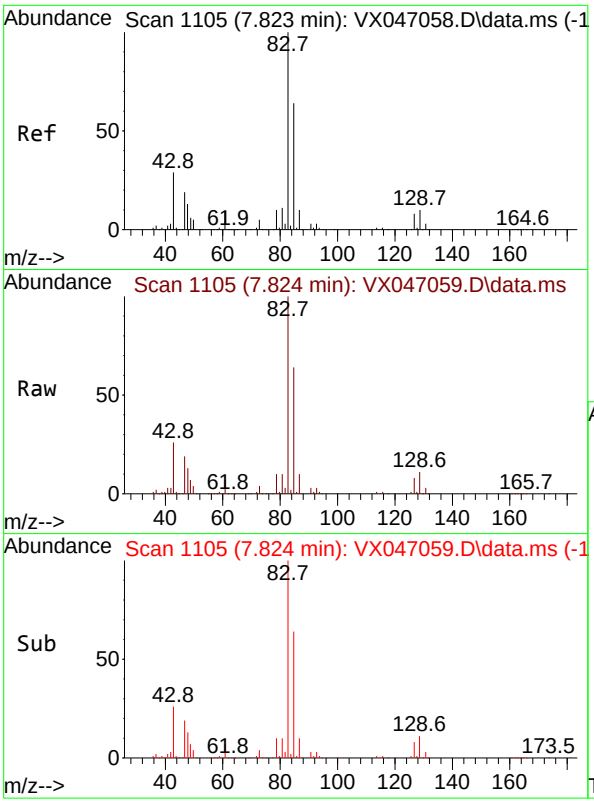


#46
Dibromomethane
Concen: 97.464 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 93 Resp: 262070

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.9	98.9
174	94.1	74.6	112.0



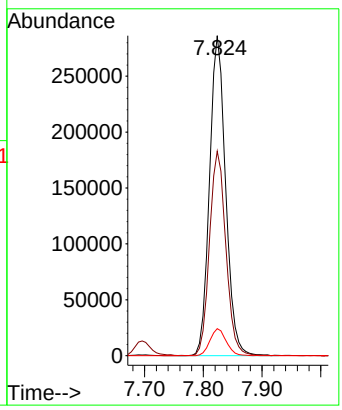


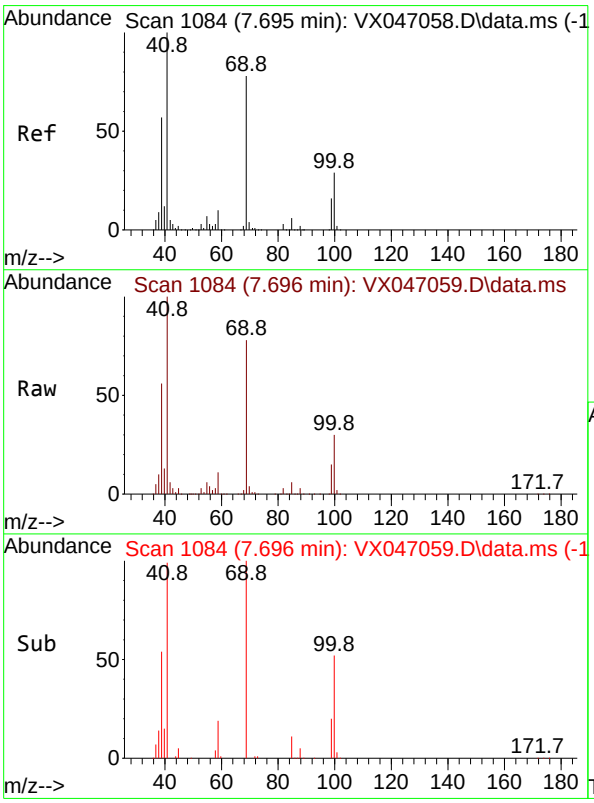
#47
Bromodichloromethane
Concen: 95.349 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 545715

Ion	Ratio	Lower	Upper
83	100		
85	63.9	49.9	74.9
127	8.4	6.6	10.0

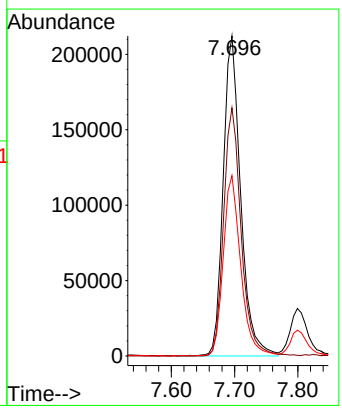


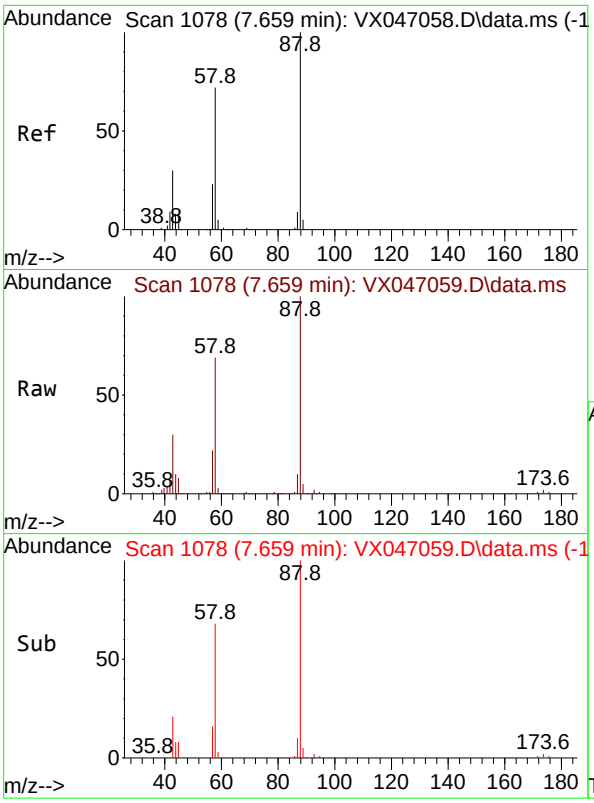


#48
Methyl methacrylate
Concen: 98.210 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 41 Resp: 406578

Ion	Ratio	Lower	Upper
41	100		
69	77.9	62.3	93.5
39	56.4	44.8	67.2



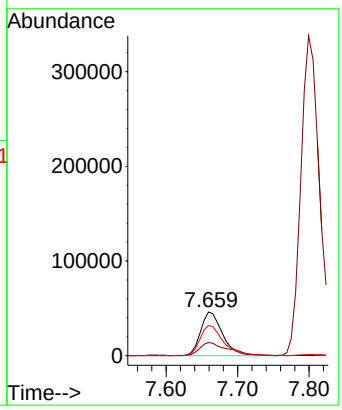


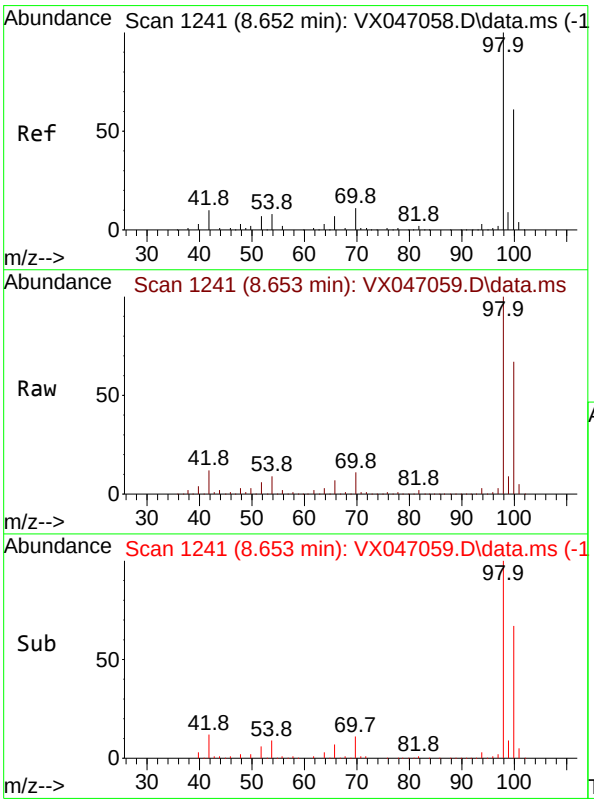
#49
1,4-Dioxane
Concen: 2074.633 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 97685

Ion	Ratio	Lower	Upper
88	100		
43	39.0	33.6	50.4
58	73.2	58.8	88.2

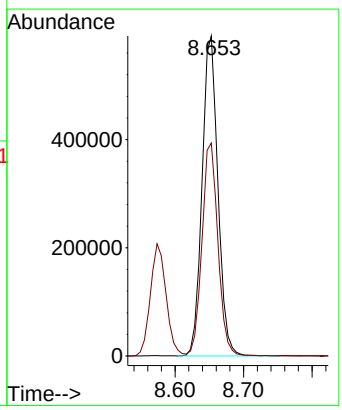


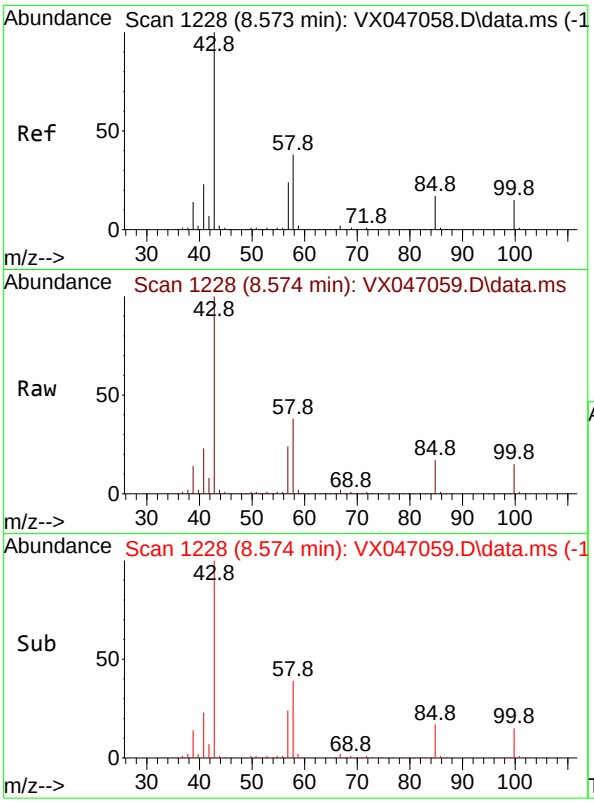


#50
Toluene-d8
Concen: 94.642 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 98 Resp: 951189

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.3	79.9



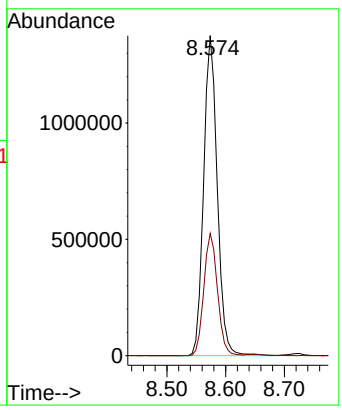


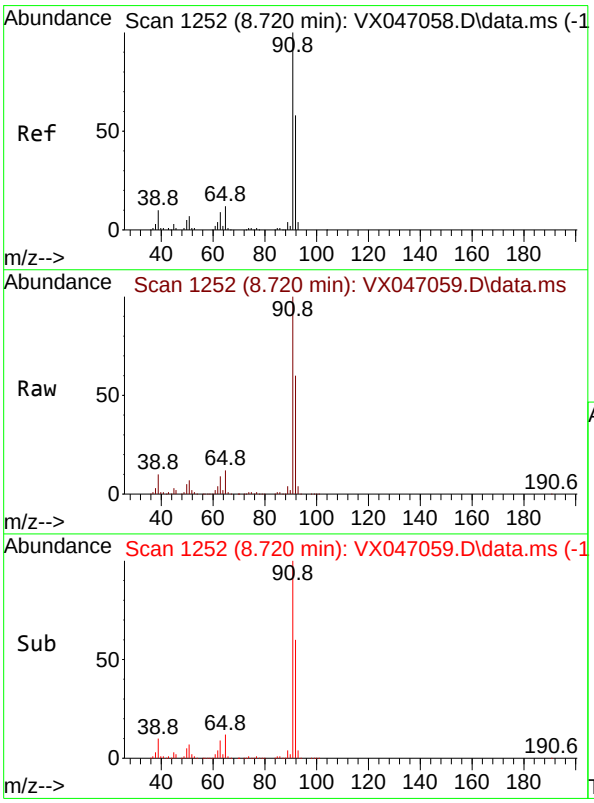
#51
4-Methyl-2-Pentanone
Concen: 490.000 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 2213299

Ion	Ratio	Lower	Upper
43	100		
58	38.3	30.6	45.8

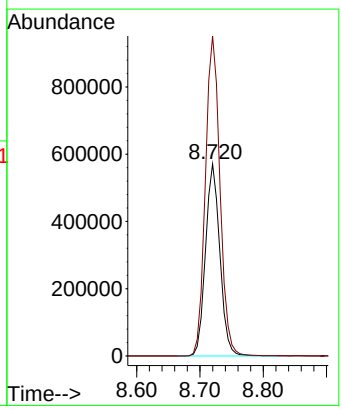


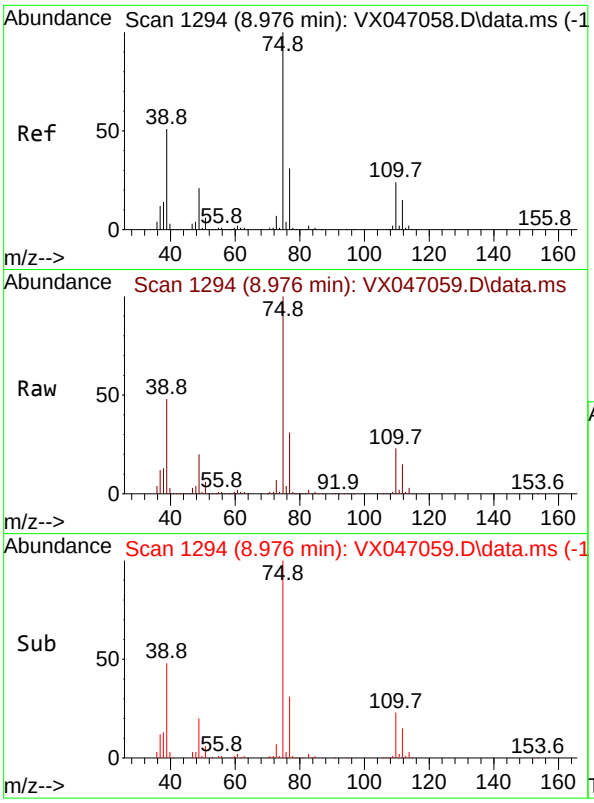


#52
Toluene
Concen: 95.648 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 92 Resp: 900379

Ion	Ratio	Lower	Upper
92	100		
91	169.7	137.9	206.9



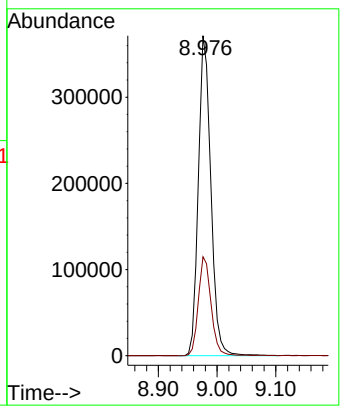


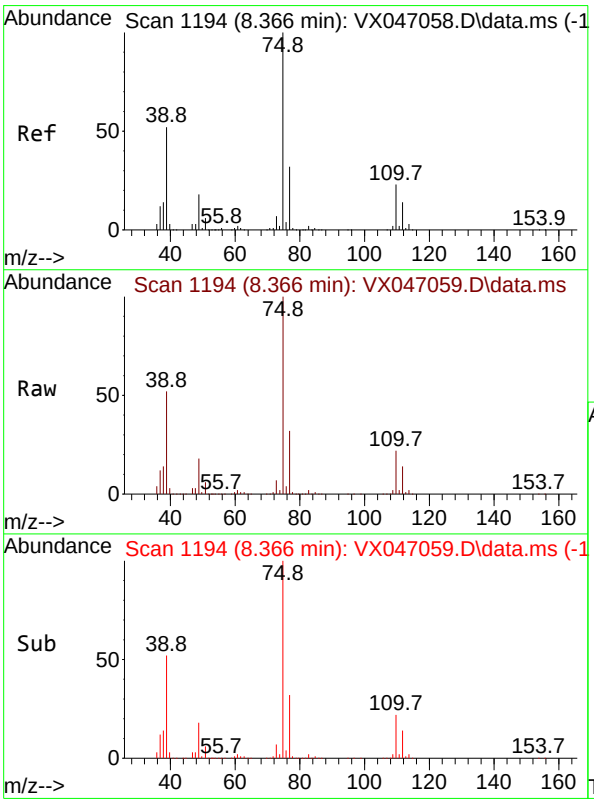
#53
t-1,3-Dichloropropene
Concen: 101.846 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 550435

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.5	36.7

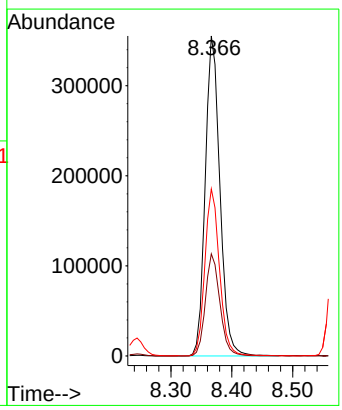


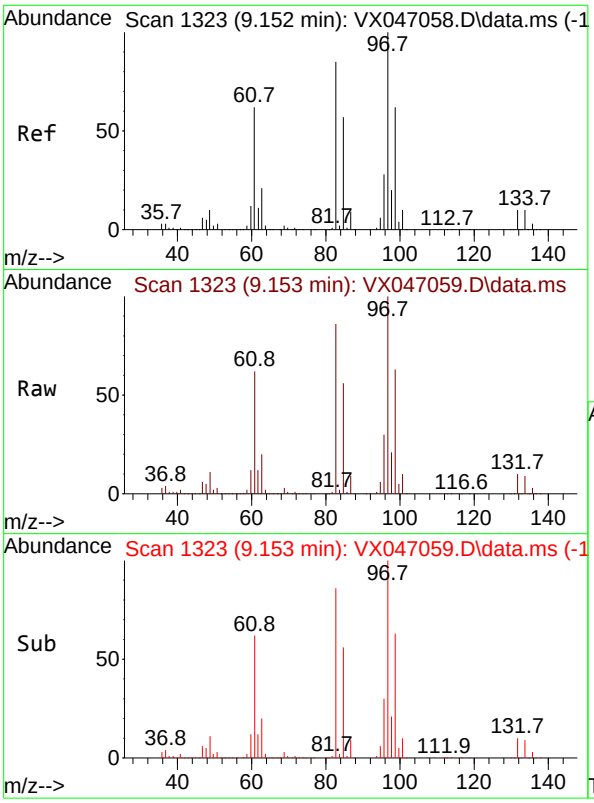


#54
cis-1,3-Dichloropropene
Concen: 100.700 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 75 Resp: 595662

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.4	38.0
39	52.1	41.8	62.6



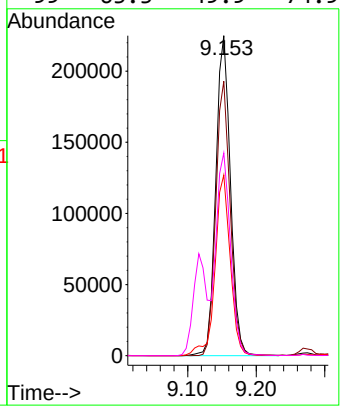


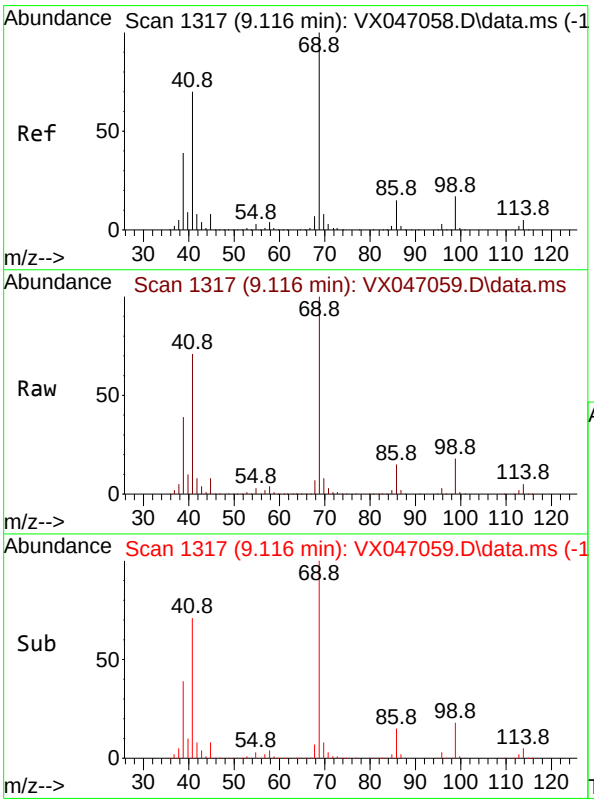
#55
1,1,2-Trichloroethane
Concen: 94.482 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 333552

Ion	Ratio	Lower	Upper
97	100		
83	85.8	68.0	102.0
85	56.5	45.2	67.8
99	63.3	49.9	74.9

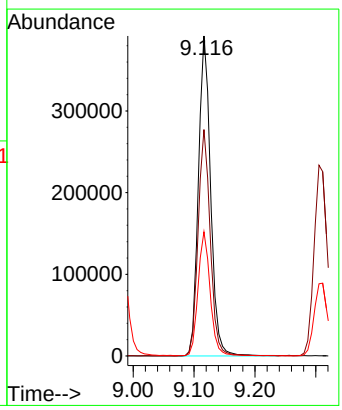


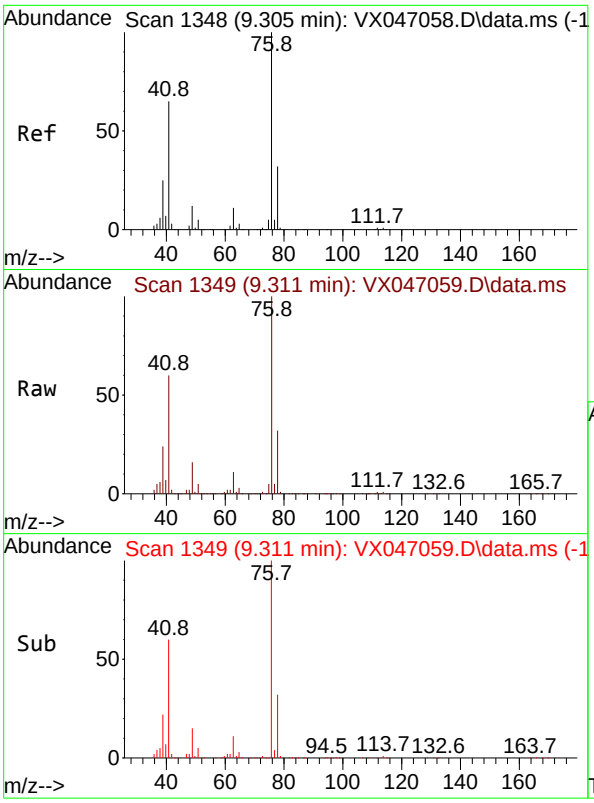


#56
Ethyl methacrylate
Concen: 104.649 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 69 Resp: 546929

Ion	Ratio	Lower	Upper
69	100		
41	70.7	56.1	84.1
39	38.2	31.1	46.7



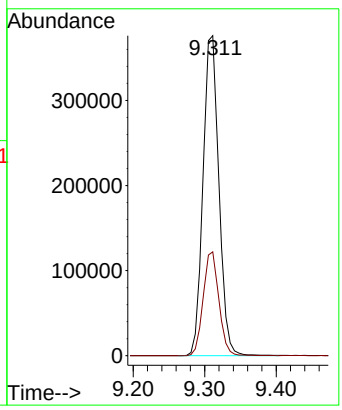


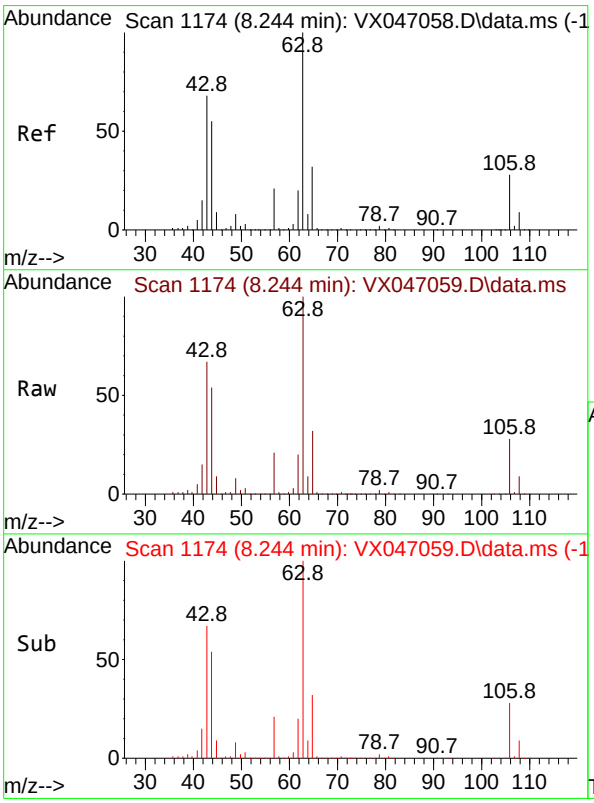
#57
1,3-Dichloropropane
Concen: 94.454 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 579525

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.5	38.3

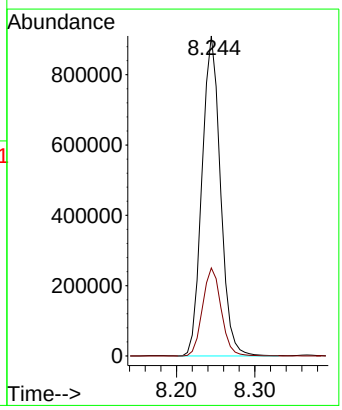


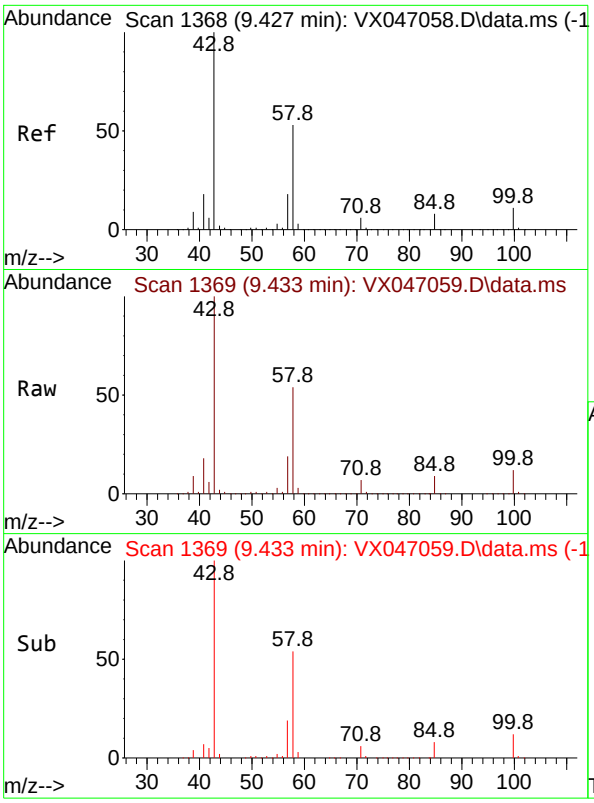


#58
2-Chloroethyl Vinyl ether
Concen: 512.296 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 63 Resp: 1489901

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.2	33.4



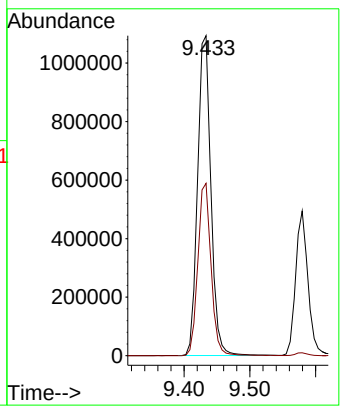


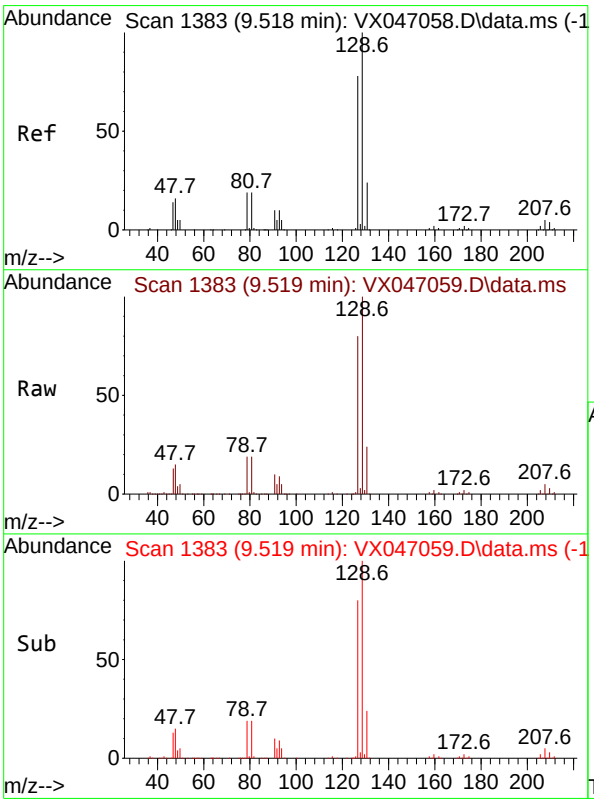
#59
2-Hexanone
Concen: 514.162 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1534390

Ion	Ratio	Lower	Upper
43	100		
58	53.4	26.5	79.5

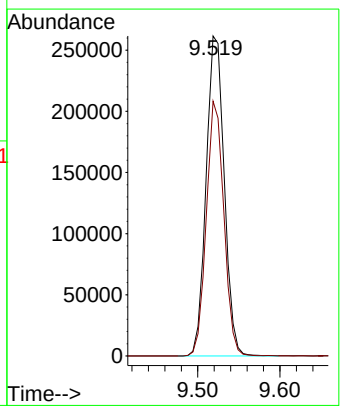


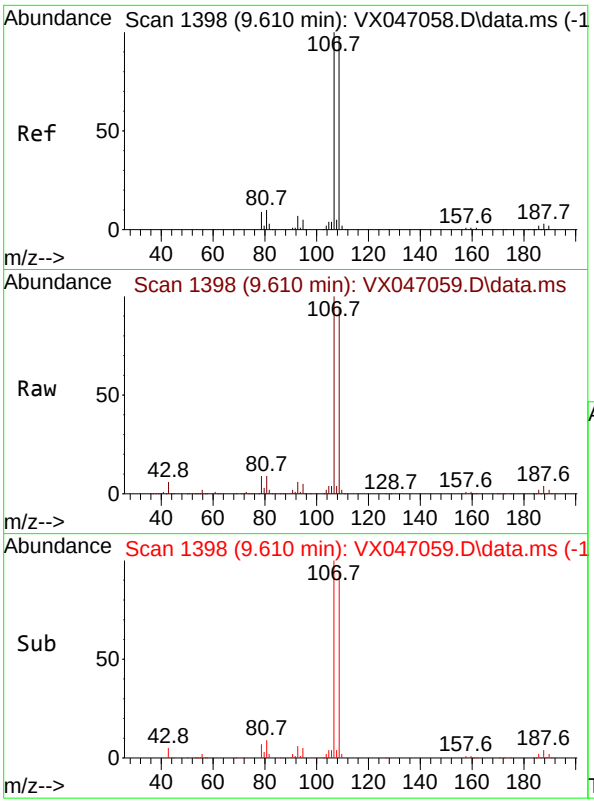


#60
Dibromochloromethane
Concen: 96.718 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:129 Resp: 400453

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.8



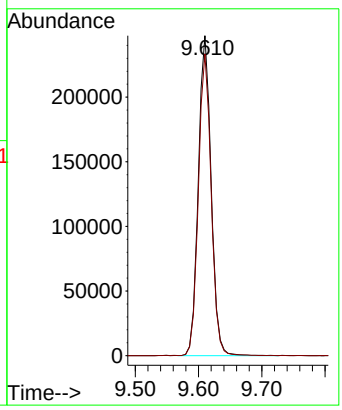


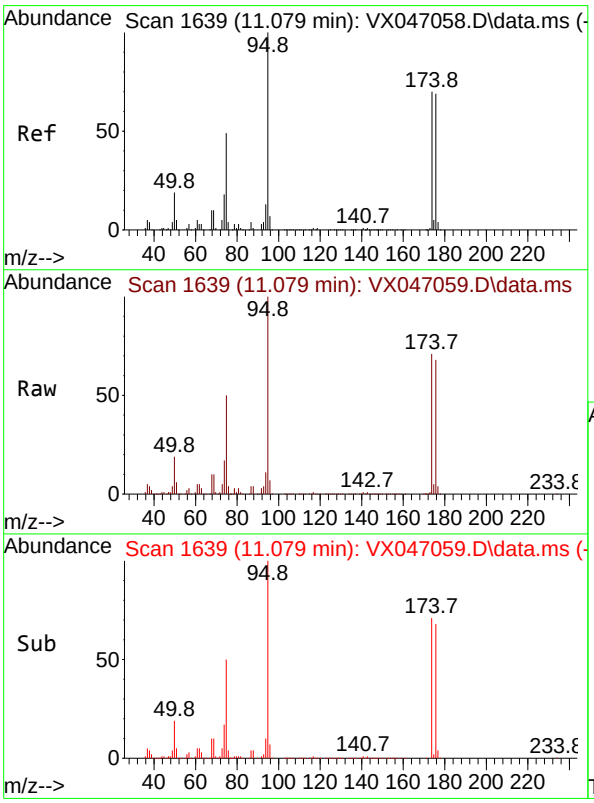
#61
1,2-Dibromoethane
Concen: 94.909 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 350348

Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.6	112.0

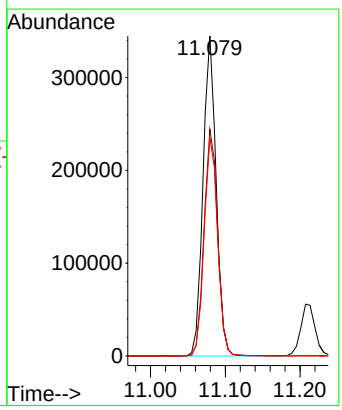


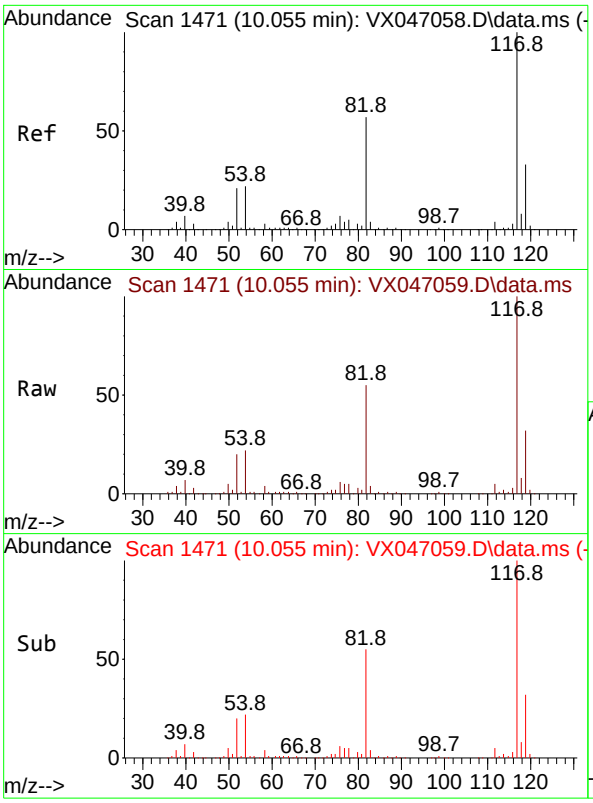


#62
4-Bromofluorobenzene
Concen: 96.692 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 95 Resp: 418790

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	144.6
176	70.3	0.0	139.6



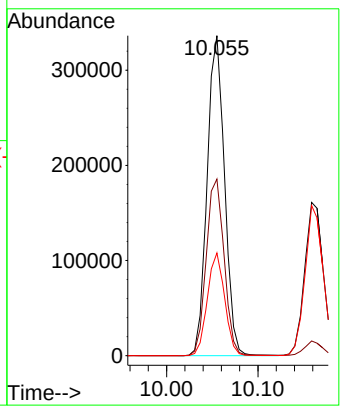


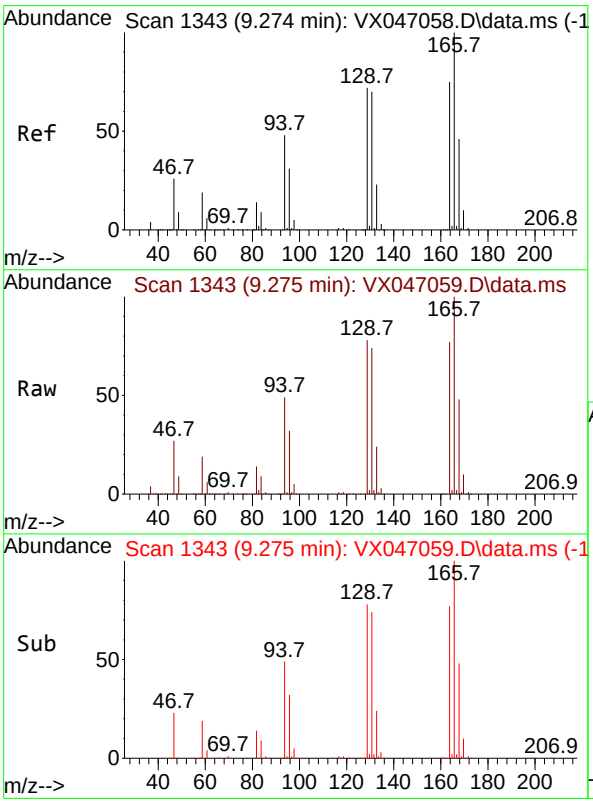
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 443709

Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.4	68.2
119	32.1	26.1	39.1

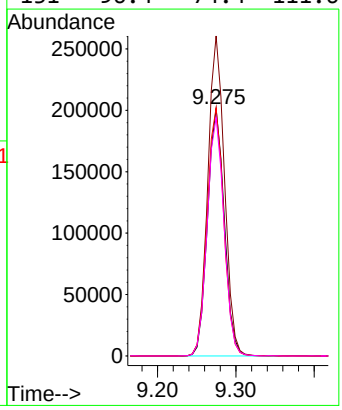


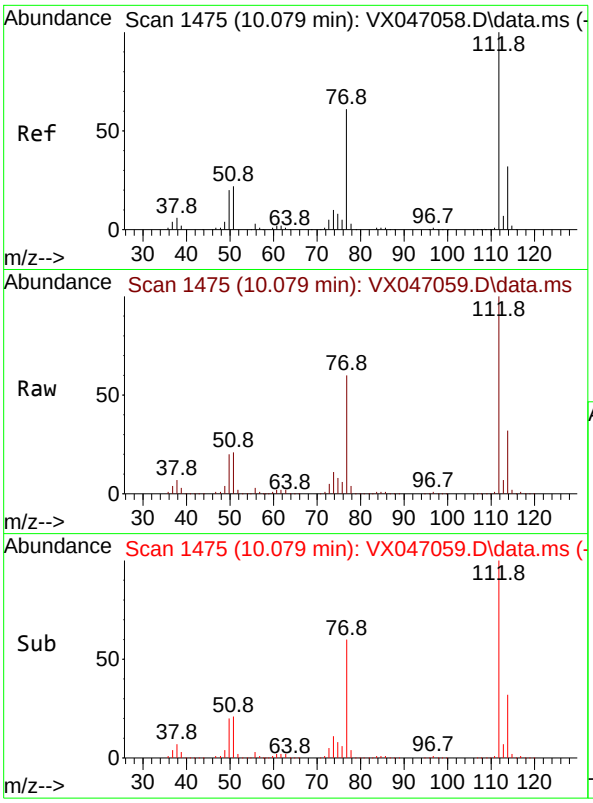


#64
Tetrachloroethene
Concen: 93.490 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:164 Resp: 299042

Ion	Ratio	Lower	Upper
164	100		
166	129.5	106.2	159.4
129	100.5	76.6	114.8
131	96.4	74.4	111.6



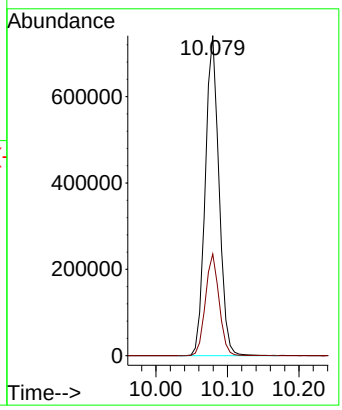


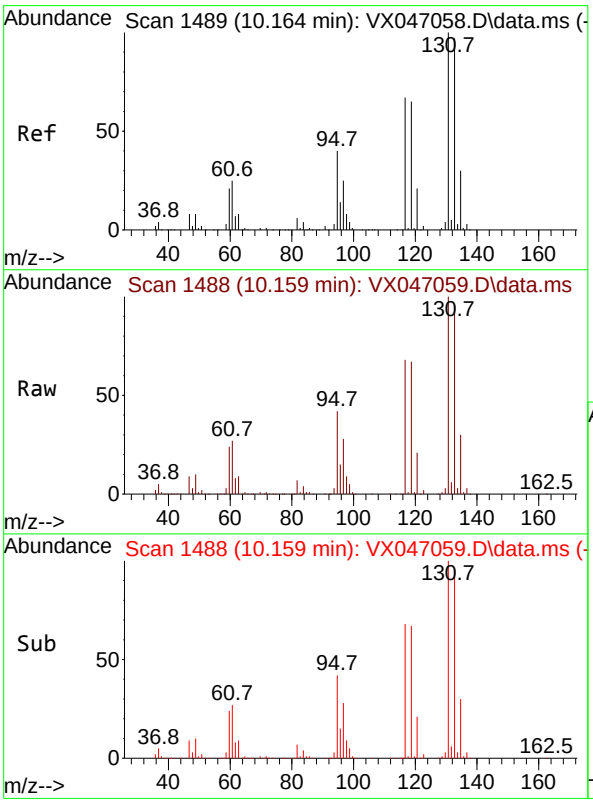
#65
Chlorobenzene
Concen: 95.134 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 988883

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.8	38.6

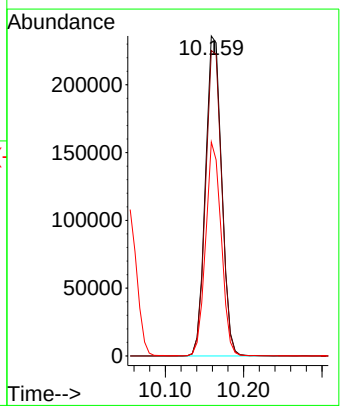


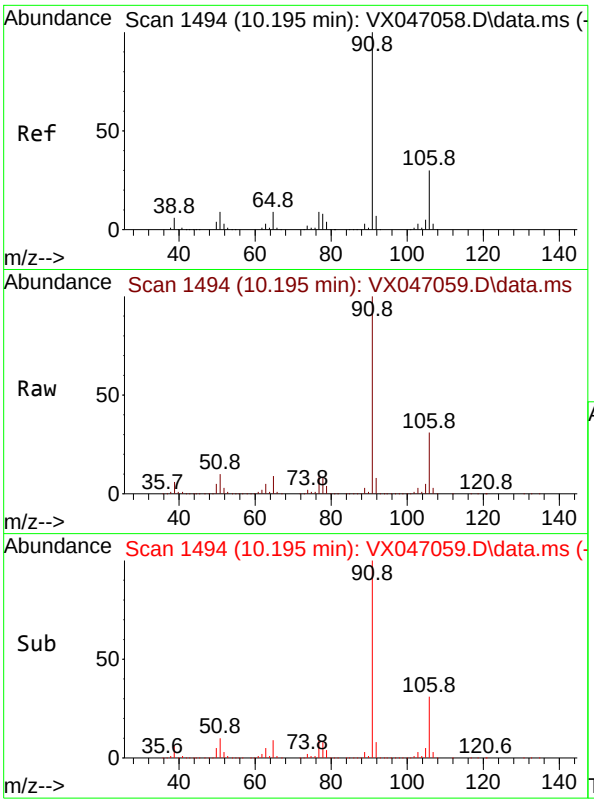


#66
1,1,1,2-Tetrachloroethane
Concen: 96.621 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:131 Resp: 338141

Ion	Ratio	Lower	Upper
131	100		
133	95.7	48.4	145.3
119	64.2	32.4	97.0



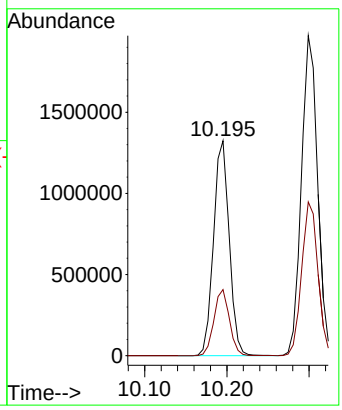


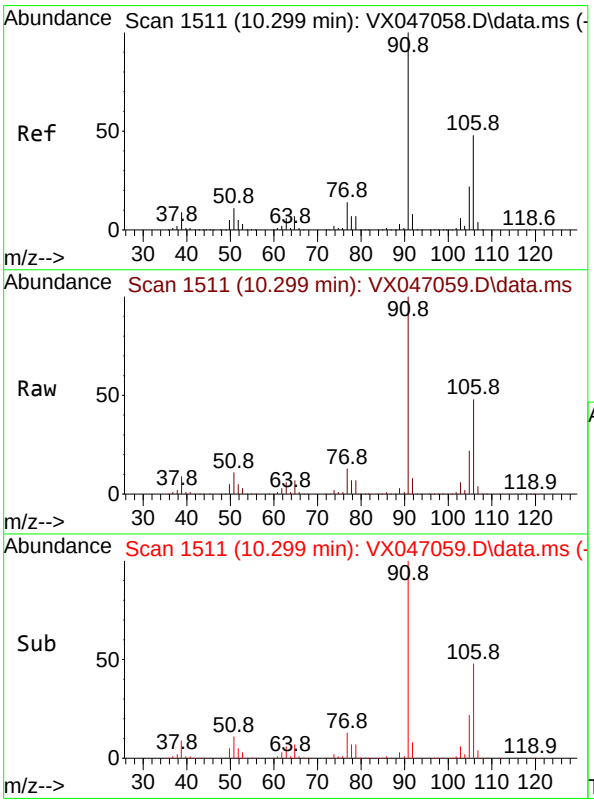
#67
Ethyl Benzene
Concen: 96.425 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1752485

Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.2	36.4

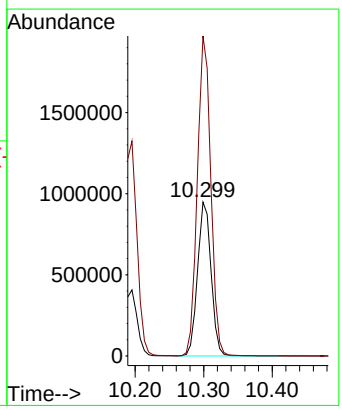


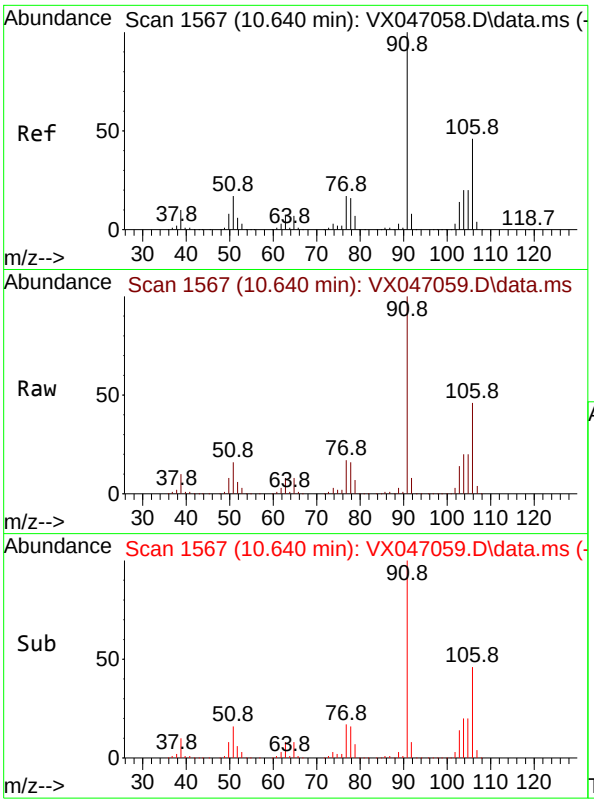


#68
m/p-Xylenes
Concen: 191.494 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:106 Resp: 1302405

Ion	Ratio	Lower	Upper
106	100		
91	206.9	167.4	251.0



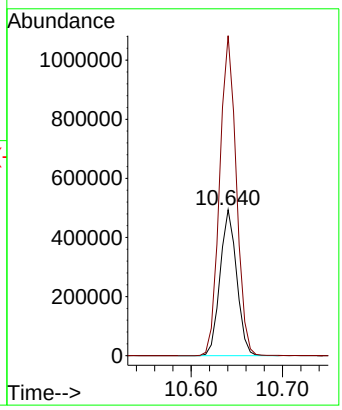


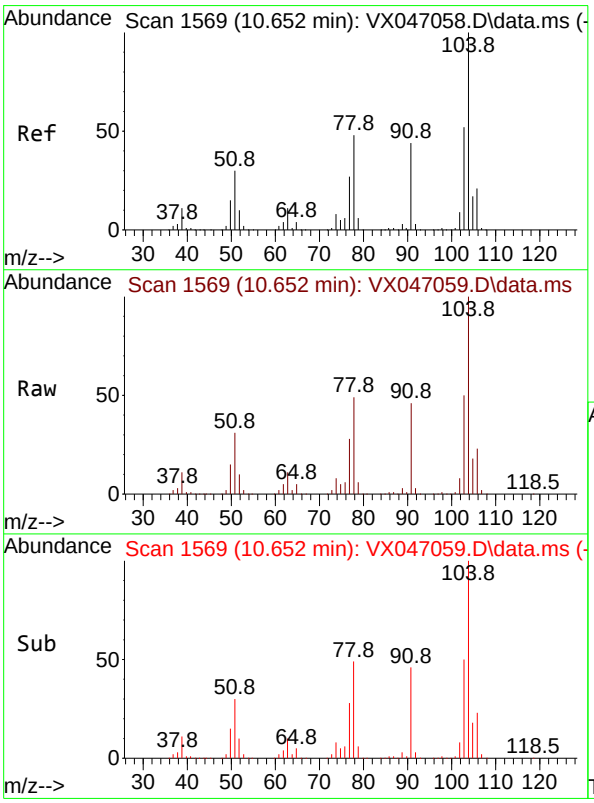
#69
o-Xylene
Concen: 96.565 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 624795

Ion	Ratio	Lower	Upper
106	100		
91	219.8	110.3	331.0

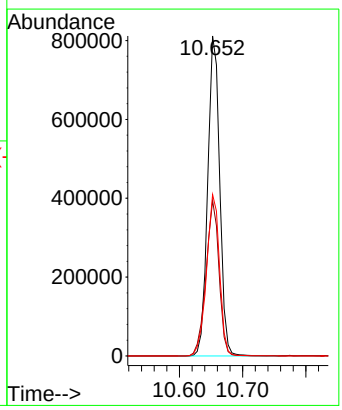


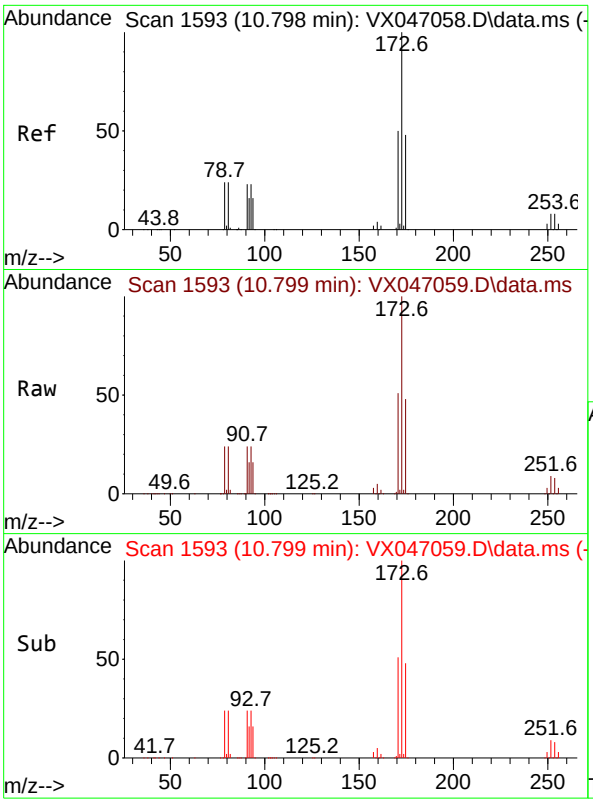


#70
Styrene
Concen: 96.694 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:104 Resp: 1072801

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.0	63.0
103	54.7	43.8	65.6



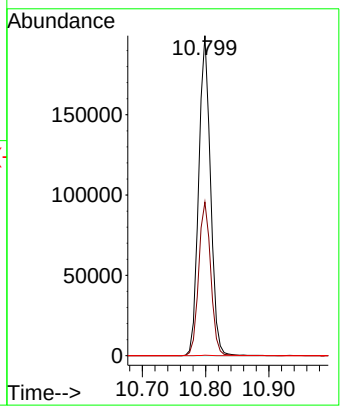


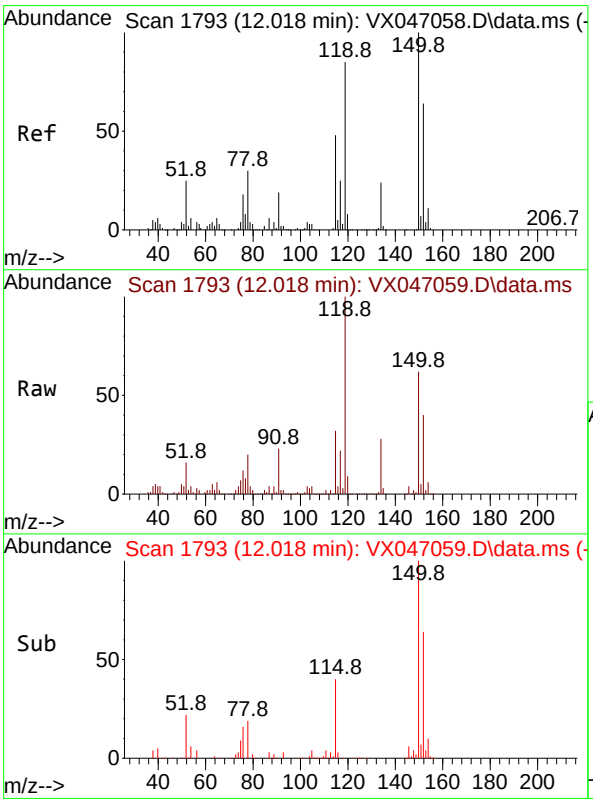
#71
Bromoform
Concen: 97.473 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 259124

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.2	72.6
254	0.1	0.1	0.1#

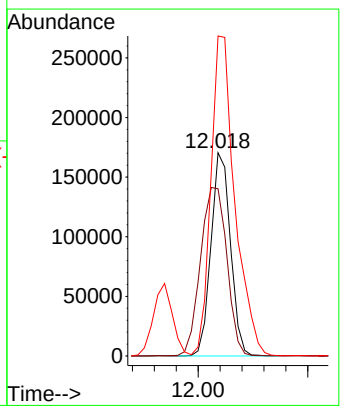


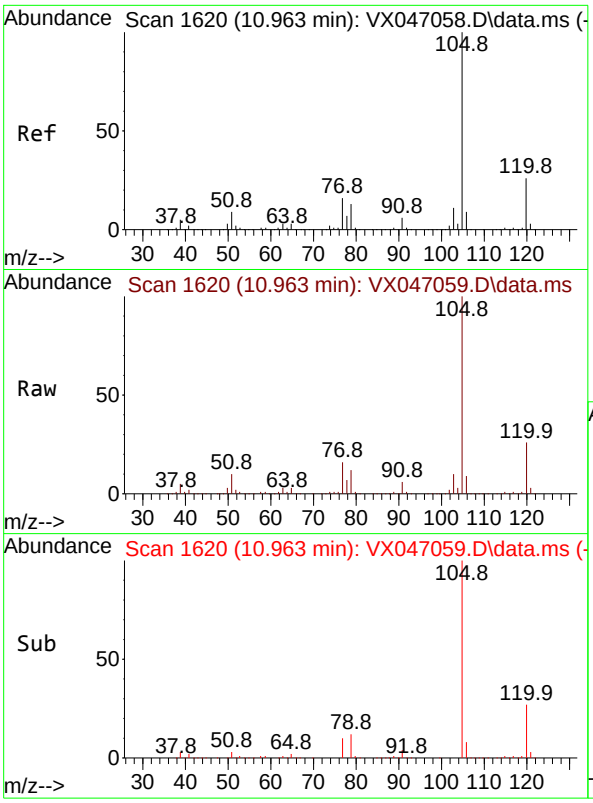


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:152 Resp: 210644

Ion	Ratio	Lower	Upper
152	100		
115	112.2	45.6	136.7
150	193.3	0.0	354.6



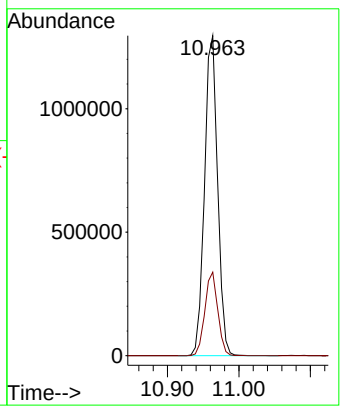


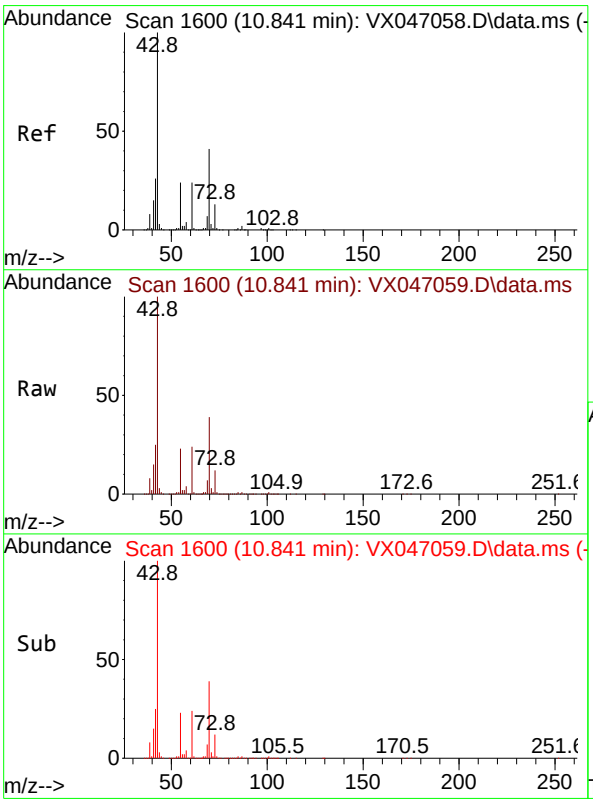
#73
Isopropylbenzene
Concen: 99.034 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1645804

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.7

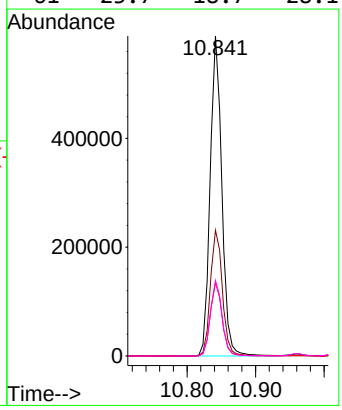


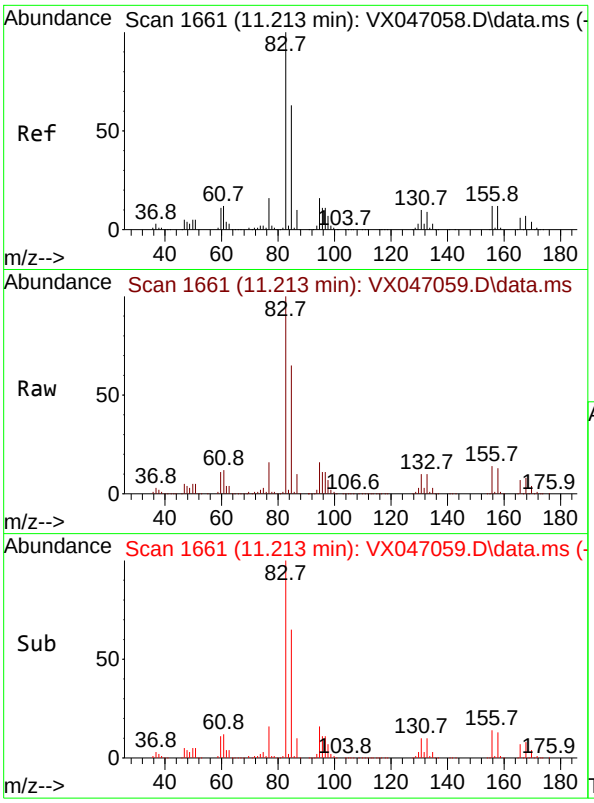


#74
N-amyl acetate
Concen: 105.369 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 43 Resp: 698465

Ion	Ratio	Lower	Upper
43	100		
70	40.5	32.3	48.5
55	23.3	18.9	28.3
61	23.7	18.7	28.1



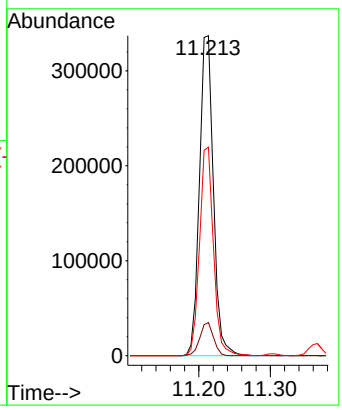


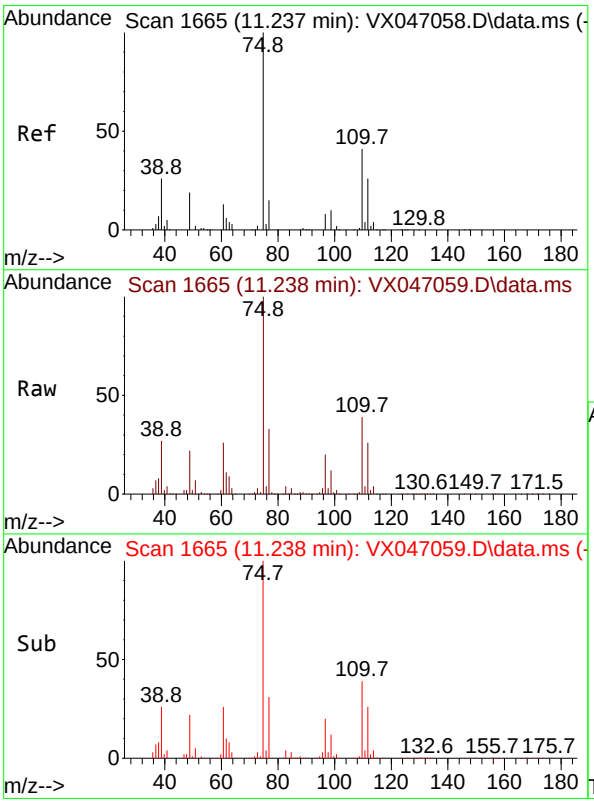
#75
1,1,2,2-Tetrachloroethane
Concen: 96.283 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 457057

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.0	14.9
85	64.8	32.0	96.2

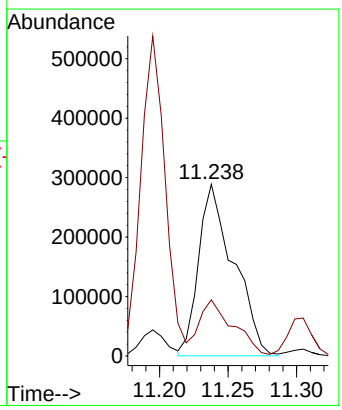


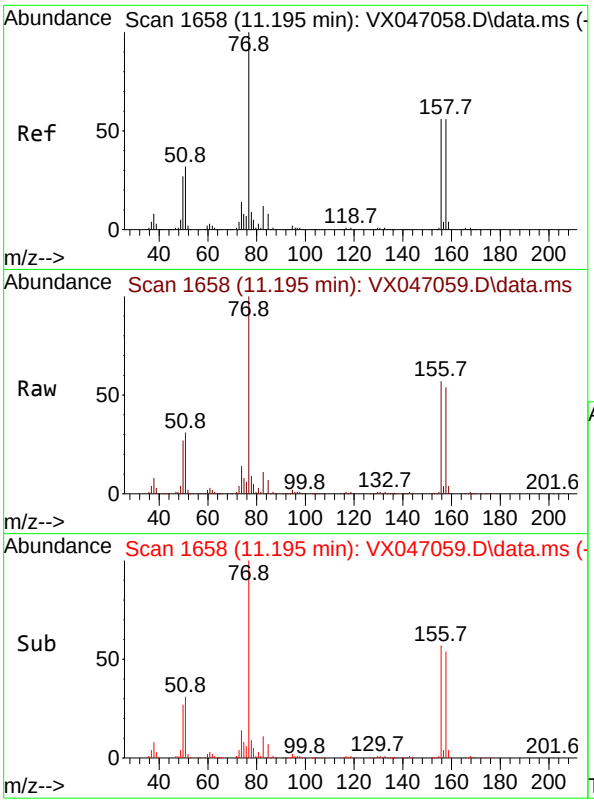


#76
1,2,3-Trichloropropane
Concen: 132.033 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 75 Resp: 514787

Ion	Ratio	Lower	Upper
75	100		
77	31.8	21.6	65.0



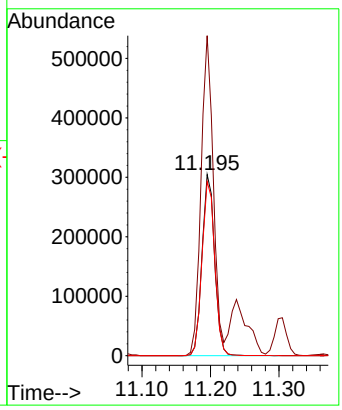


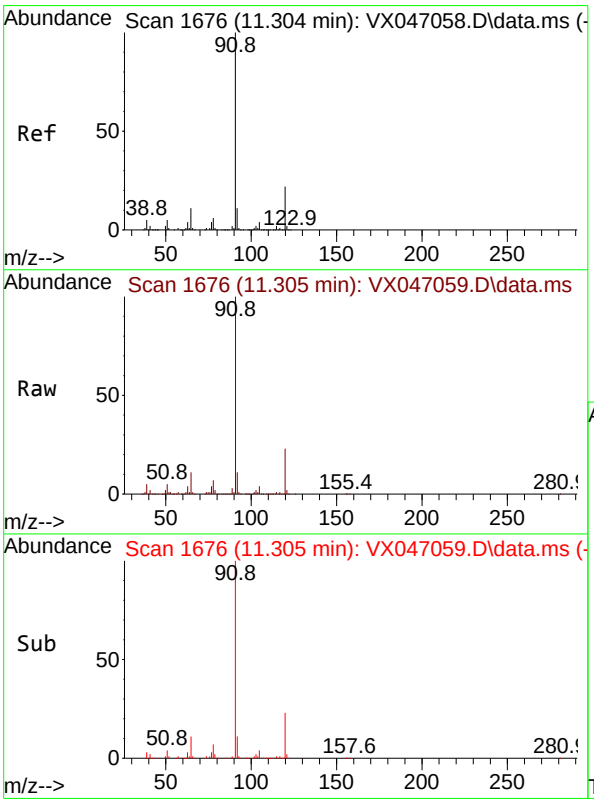
#77
Bromobenzene
Concen: 97.789 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 389788

Ion	Ratio	Lower	Upper
156	100		
77	172.5	87.3	261.9
158	97.8	48.9	146.6

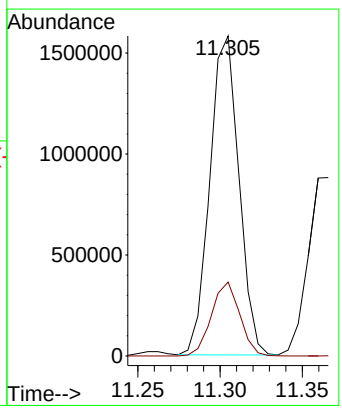


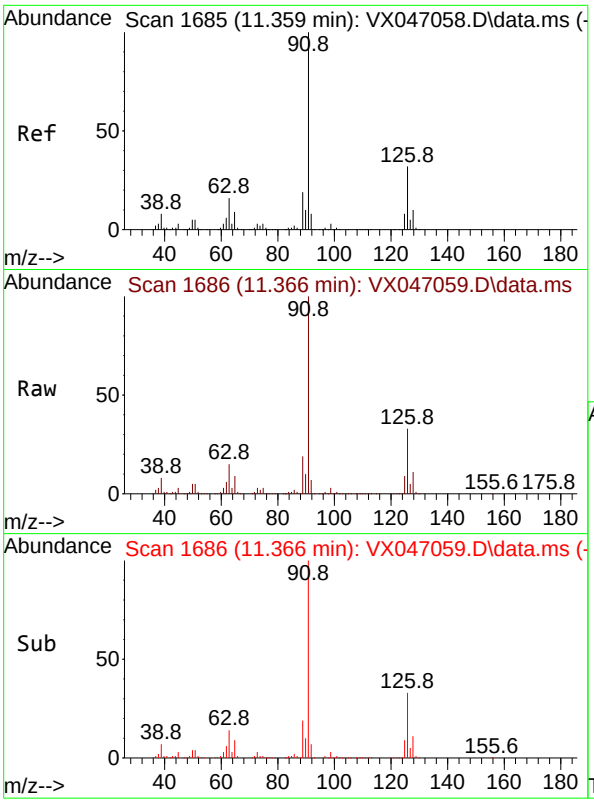


#78
n-propylbenzene
Concen: 97.969 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 91 Resp: 1945548

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.0	33.0



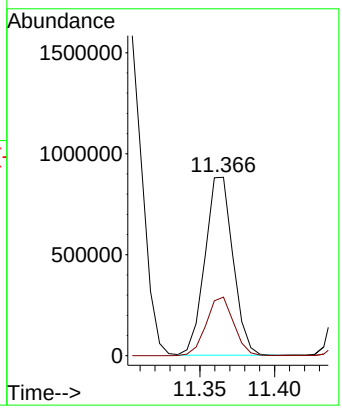


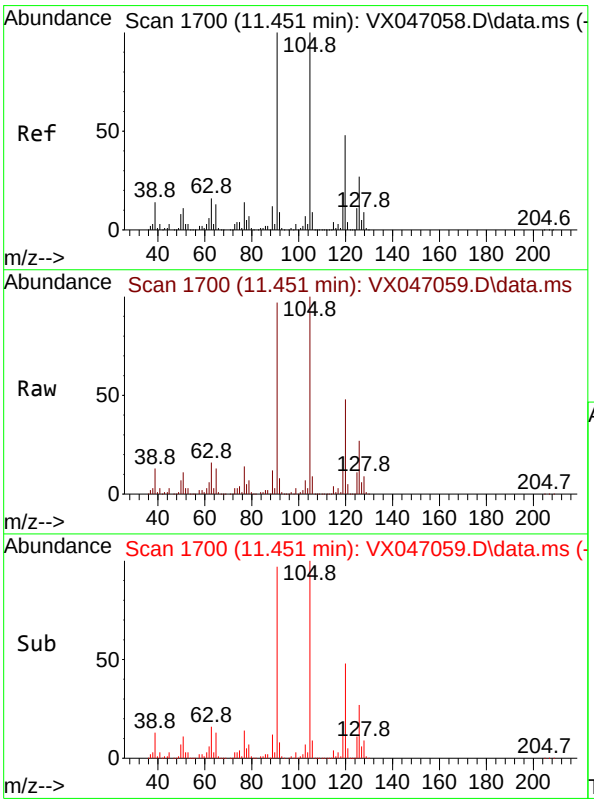
#79
2-Chlorotoluene
Concen: 96.889 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1150165

Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.4	49.4

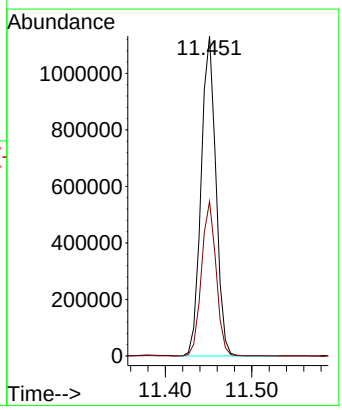


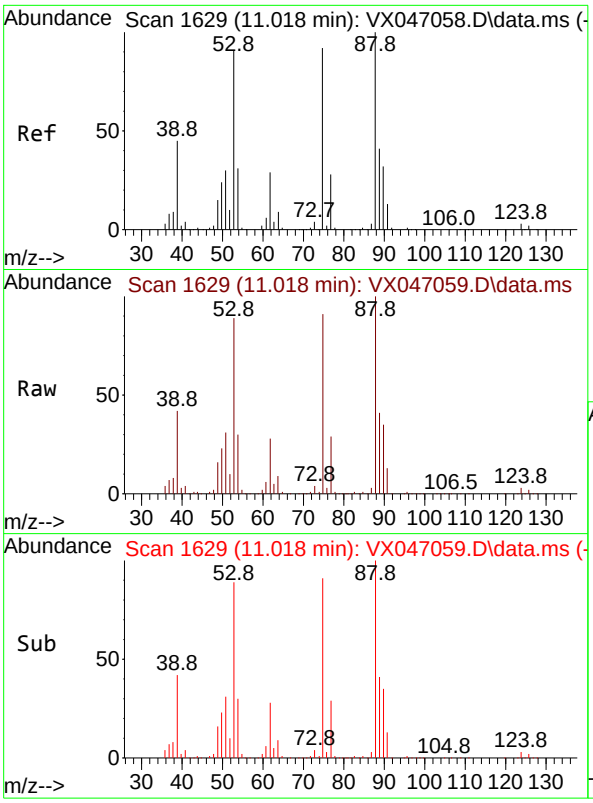


#80
1,3,5-Trimethylbenzene
Concen: 97.612 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:105 Resp: 1340151

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.8	71.5



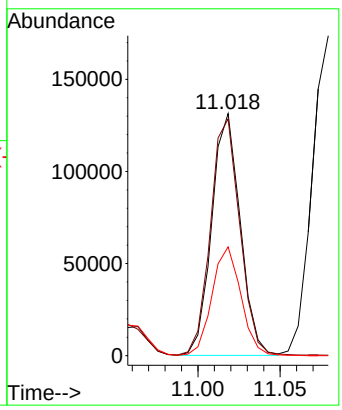


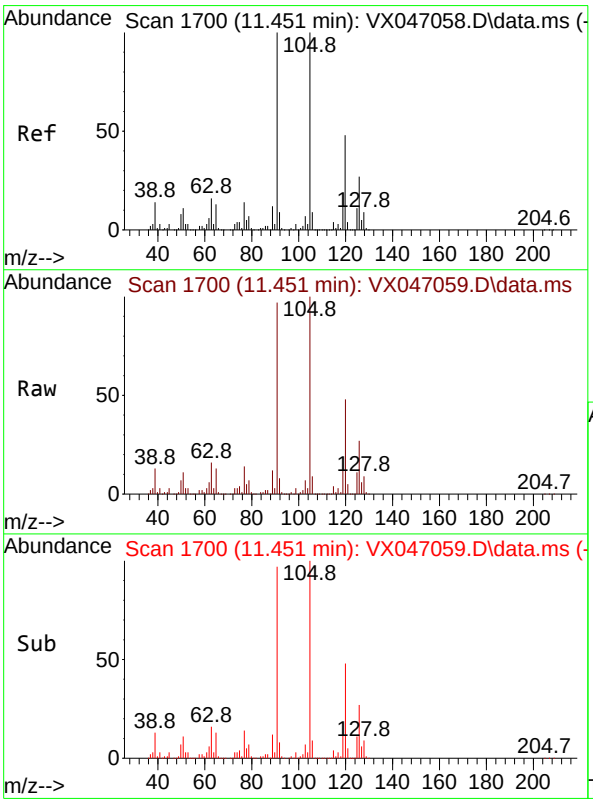
#81
trans-1,4-Dichloro-2-butene
Concen: 104.426 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 158030

Ion	Ratio	Lower	Upper
75	100		
53	101.5	84.2	126.4
89	45.8	36.0	54.0

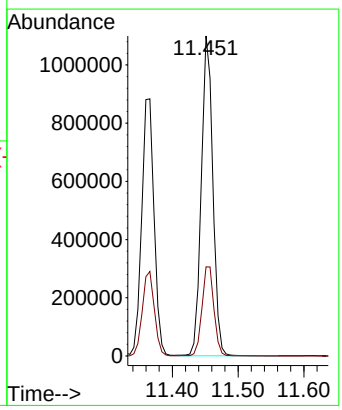


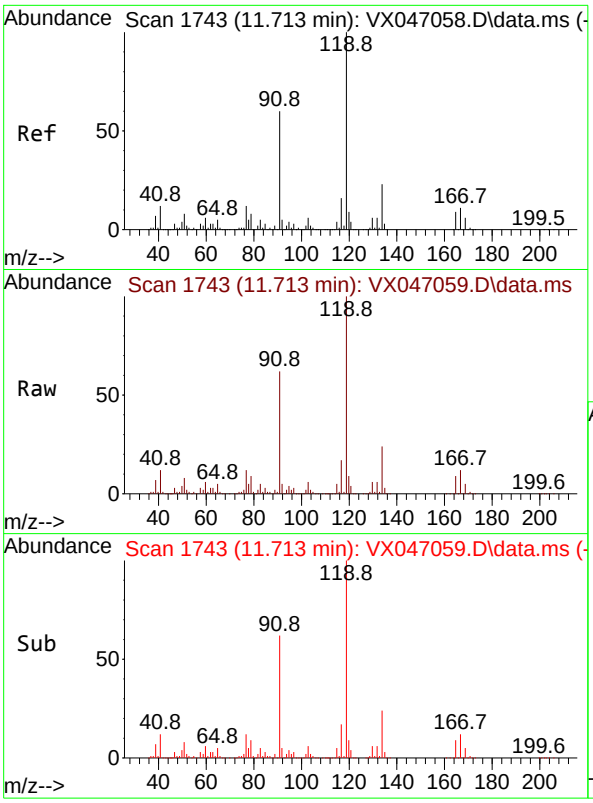


#82
4-Chlorotoluene
Concen: 96.766 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 91 Resp: 1340796

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.1	42.3



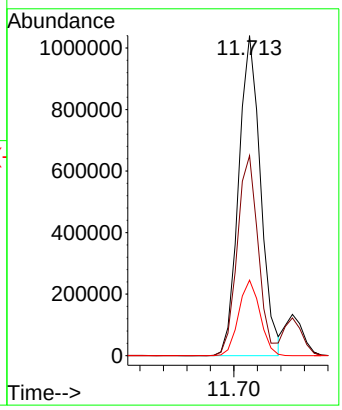


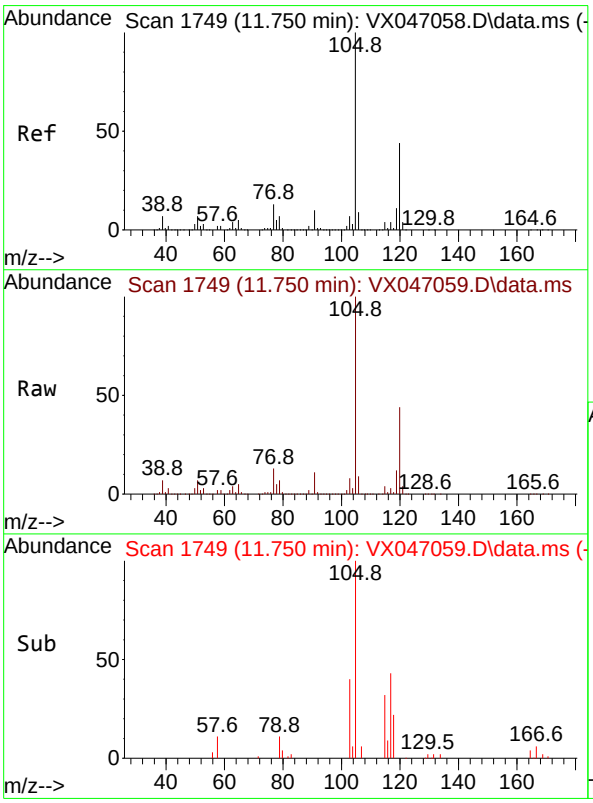
#83
tert-Butylbenzene
Concen: 97.765 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 1347206

Ion	Ratio	Lower	Upper
119	100		
91	60.5	29.6	88.8
134	23.0	11.4	34.1

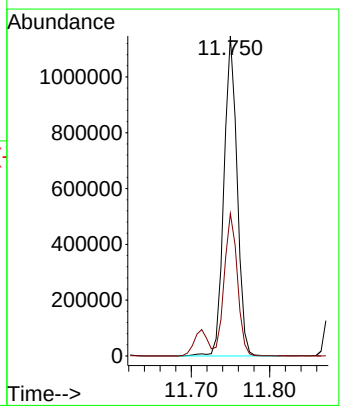


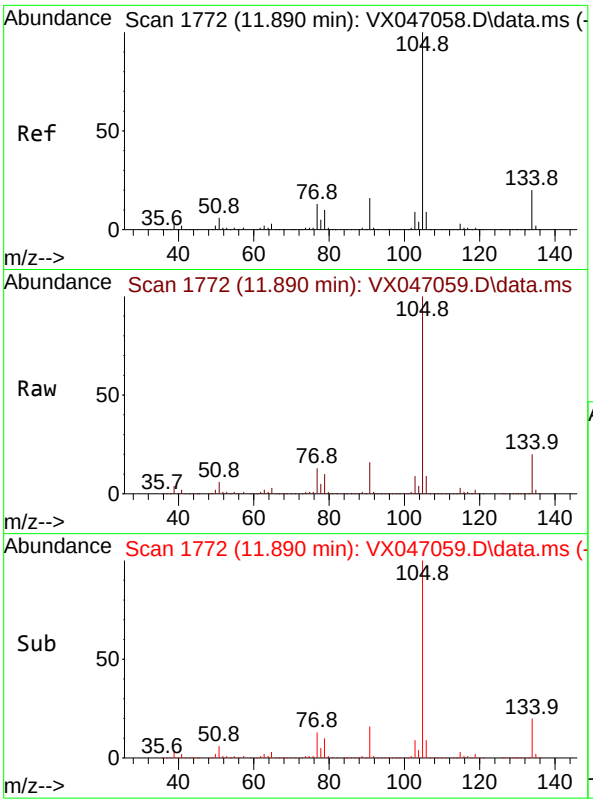


#84
1,2,4-Trimethylbenzene
Concen: 98.362 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:105 Resp: 1346982

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.0	66.0



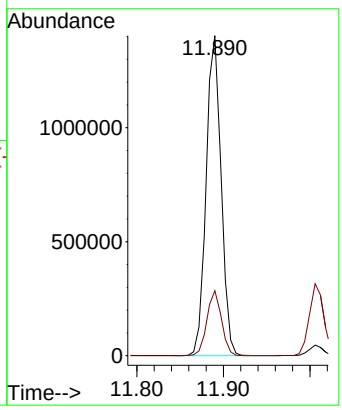


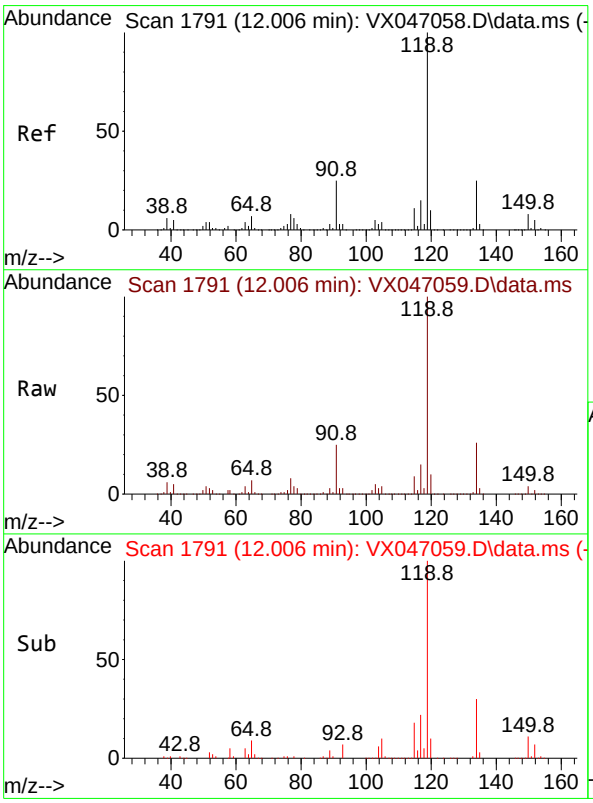
#85
sec-Butylbenzene
Concen: 97.702 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1682208

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7

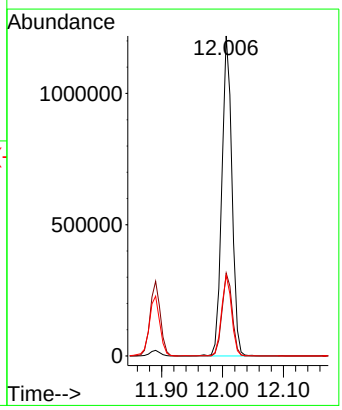


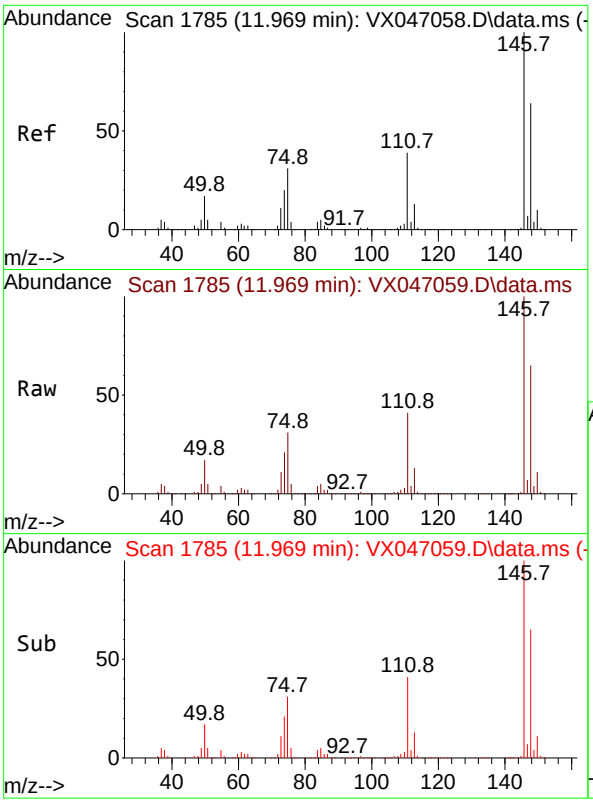


#86
p-Isopropyltoluene
Concen: 98.379 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:119 Resp: 1404678

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	25.0	12.4	37.4



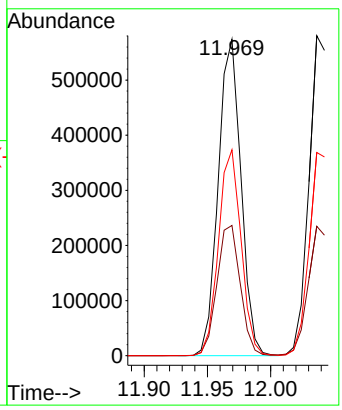


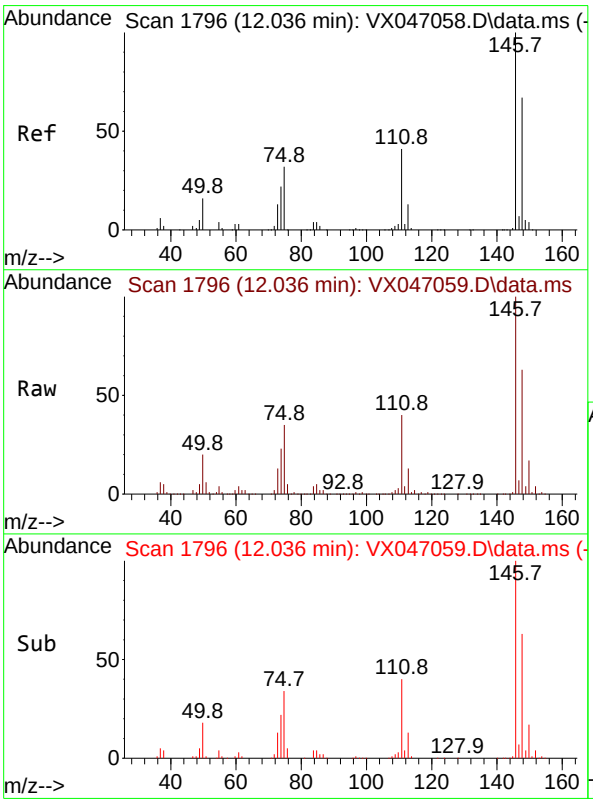
#87
1,3-Dichlorobenzene
Concen: 94.782 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 717851

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.0	63.0
148	64.6	32.0	96.0

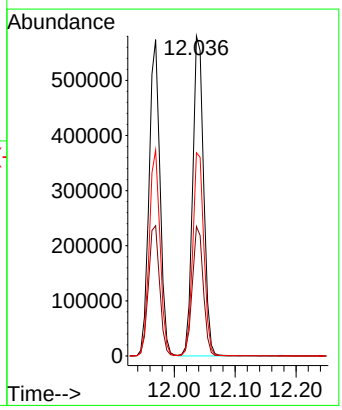


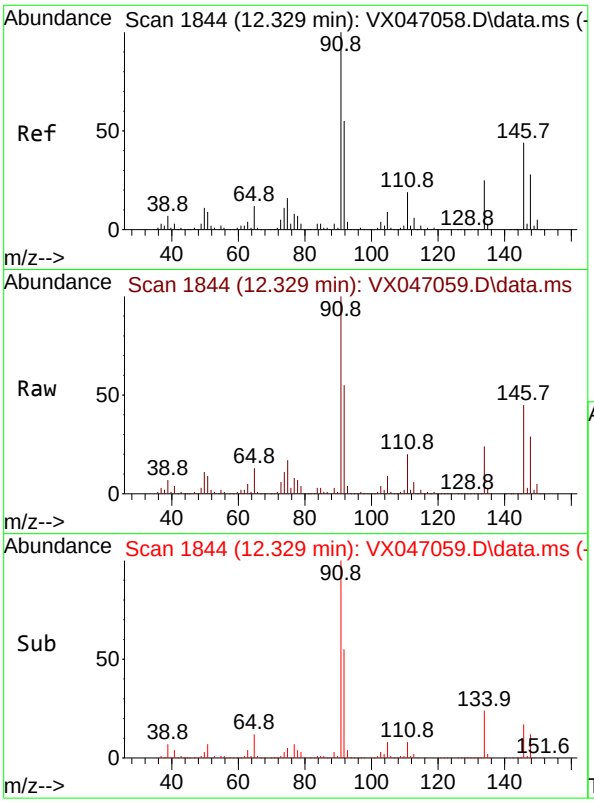


#88
1,4-Dichlorobenzene
Concen: 94.617 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:146 Resp: 726014

Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.6	61.9
148	64.2	33.0	98.9



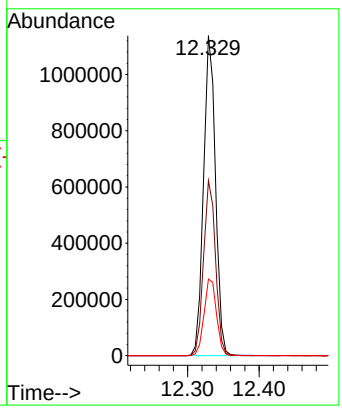


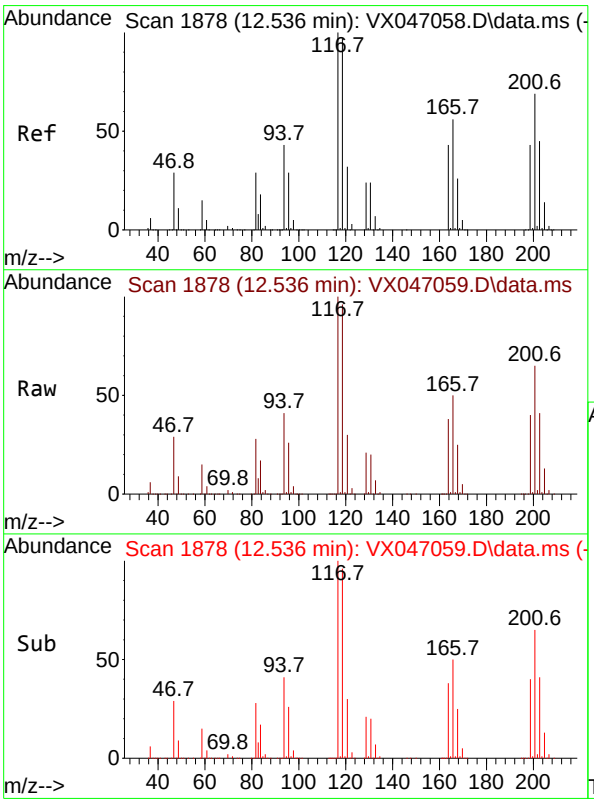
#89
n-Butylbenzene
Concen: 98.826 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1323274

Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.5	82.5
134	25.0	12.8	38.3

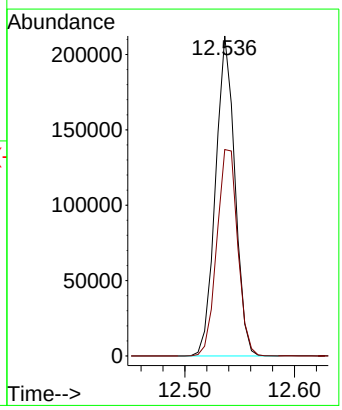


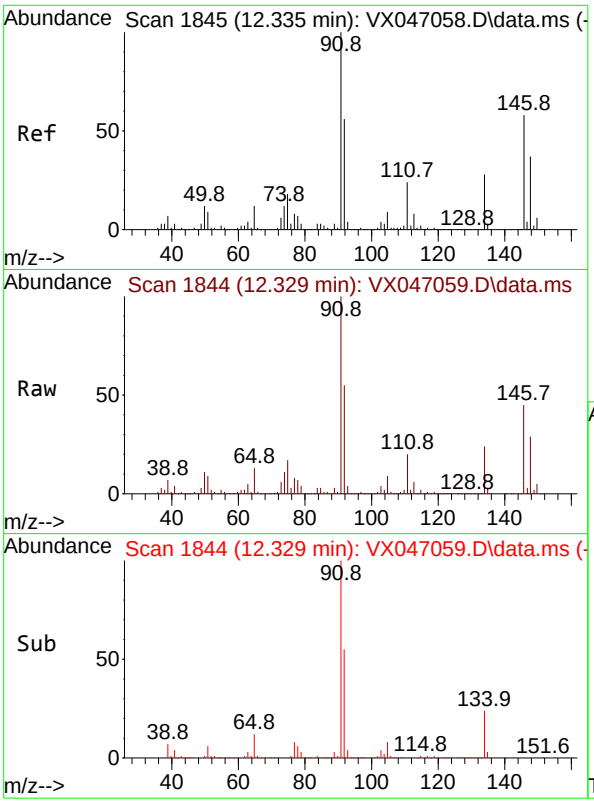


#90
Hexachloroethane
Concen: 102.152 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:117 Resp: 260929

Ion	Ratio	Lower	Upper
117	100		
201	69.6	34.8	104.5



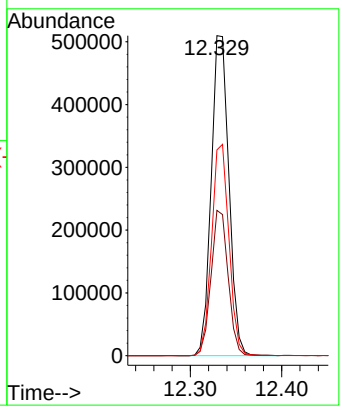


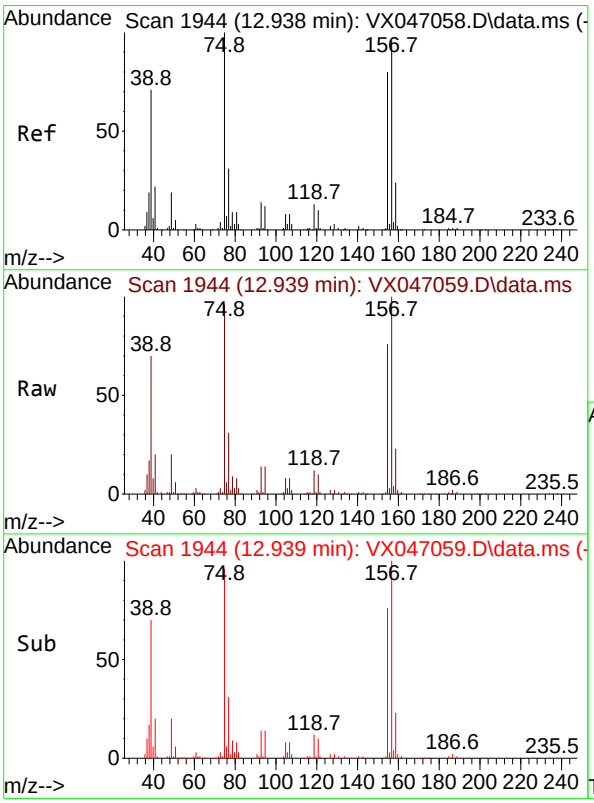
#91
1,2-Dichlorobenzene
Concen: 94.557 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 684462

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.6	64.6
148	64.8	31.9	95.7

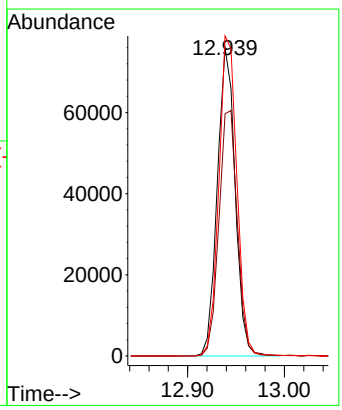


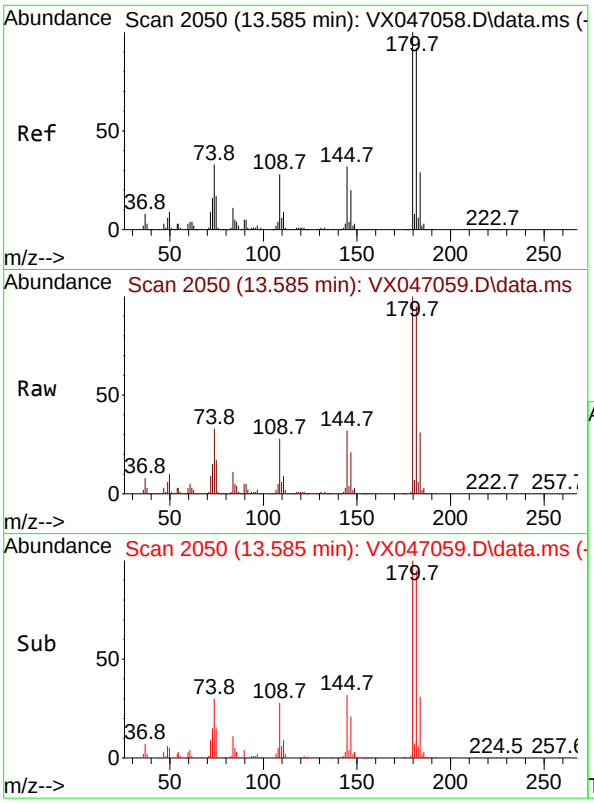


#92
1,2-Dibromo-3-Chloropropane
Concen: 106.683 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion: 75 Resp: 97209

Ion	Ratio	Lower	Upper
75	100		
155	82.3	41.3	124.1
157	104.9	52.8	158.3



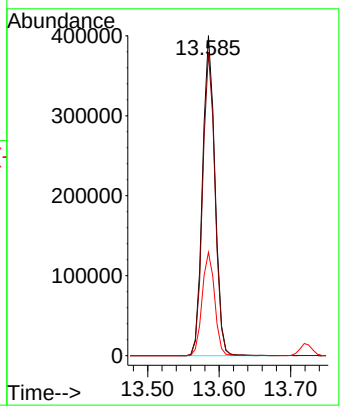


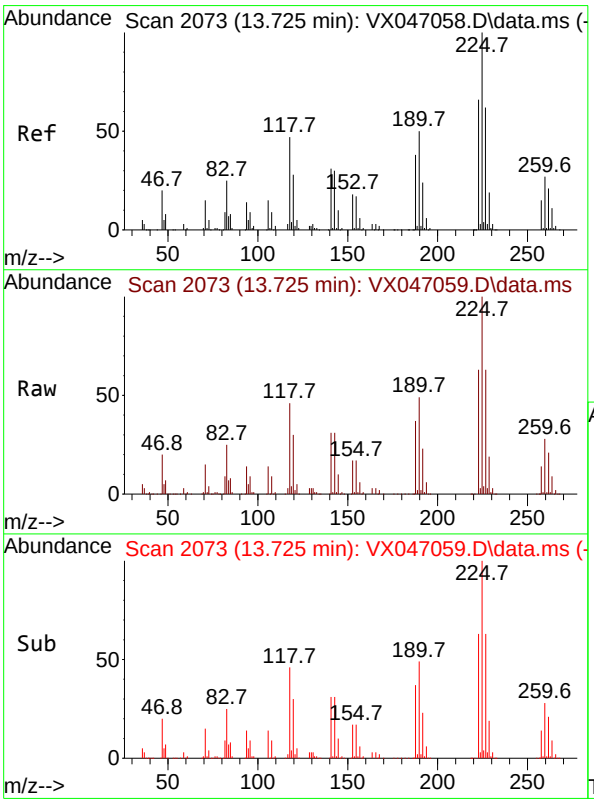
#93
1,2,4-Trichlorobenzene
Concen: 100.755 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 481866

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.3	141.8
145	32.6	16.4	49.1

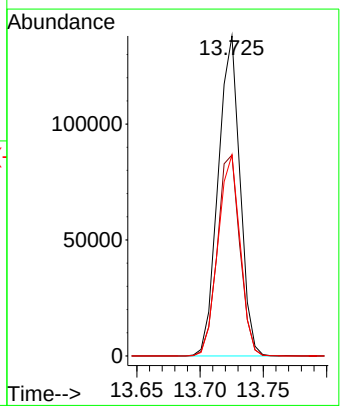


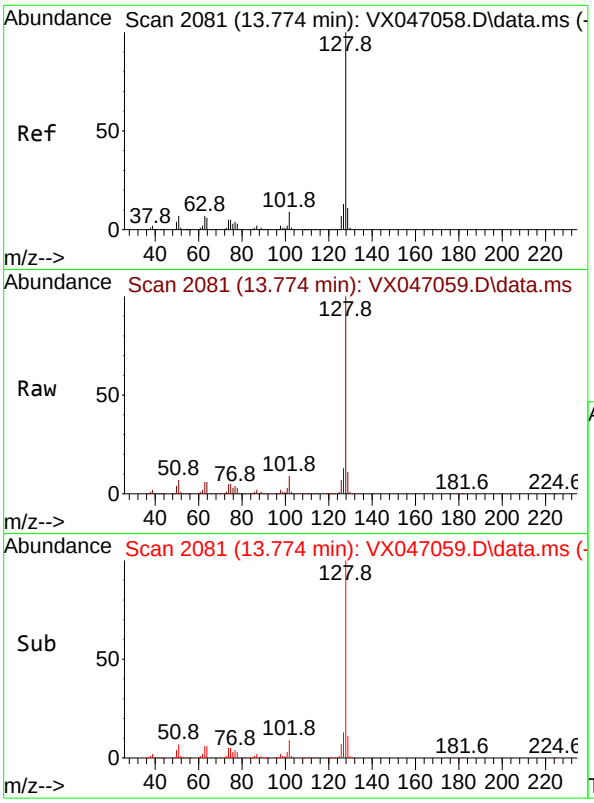


#94
Hexachlorobutadiene
Concen: 101.539 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:225 Resp: 165153

Ion	Ratio	Lower	Upper
225	100		
223	64.9	31.6	95.0
227	63.9	32.9	98.6



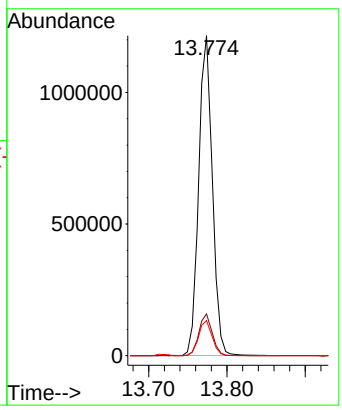


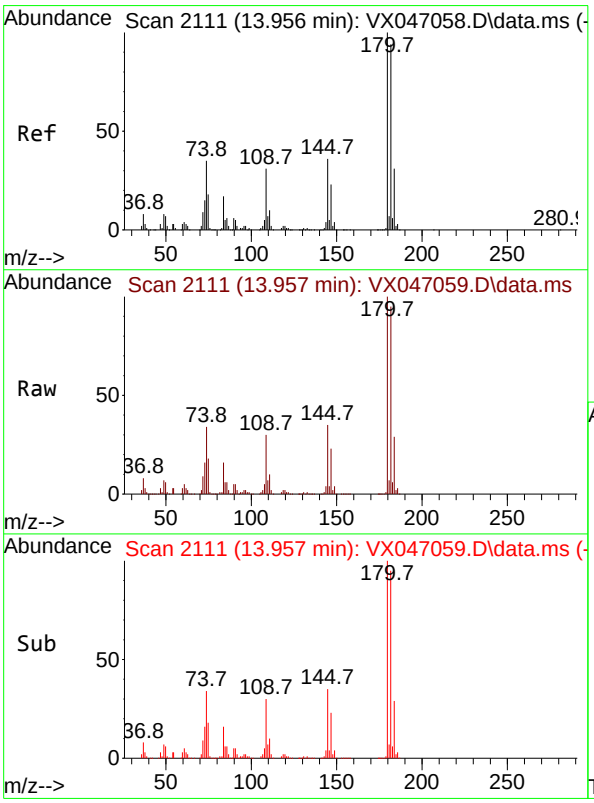
#95
Naphthalene
Concen: 105.135 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 1474039

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.9	8.6	13.0

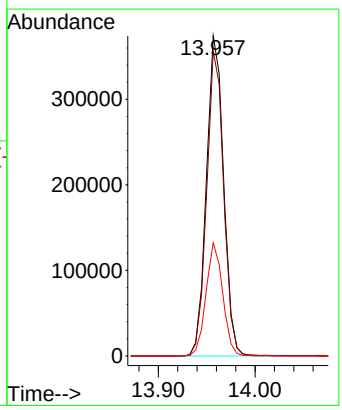




#96
1,2,3-Trichlorobenzene
Concen: 100.760 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047059.D
Acq: 21 Jul 2025 11:11

Tgt Ion:180 Resp: 464244

Ion	Ratio	Lower	Upper
180	100		
182	93.9	46.9	140.6
145	34.4	17.3	52.0



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047060.D
Acq On : 21 Jul 2025 11:32
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Jul 22 03:40:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	281238	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	475828	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	420817	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	196123	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	547497	156.279	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117			Recovery = 312.560%#		
35) Dibromofluoromethane	5.397	113	468188	159.361	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124			Recovery = 318.720%#		
50) Toluene-d8	8.653	98	1448057	152.197	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112			Recovery = 304.400%#		
62) 4-Bromofluorobenzene	11.079	95	635473	154.987	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123			Recovery = 309.980%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	614977	164.628	ug/l	99
3) Chloromethane	1.307	50	591309	160.024	ug/l	98
4) Vinyl Chloride	1.386	62	609982	153.566	ug/l	100
5) Bromomethane	1.612	94	260740	120.842	ug/l	96
6) Chloroethane	1.691	64	357637	137.087	ug/l	99
7) Trichlorofluoromethane	1.898	101	903925	152.614	ug/l	99
8) Diethyl Ether	2.148	74	312592	149.683	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.343	101	532594	149.251	ug/l	99
10) Methyl Iodide	2.465	142	640817	176.203	ug/l	99
11) Tert butyl alcohol	2.971	59	299604	752.233	ug/l	97
12) 1,1-Dichloroethene	2.331	96	527730	149.314	ug/l	98
13) Acrolein	2.246	56	563218	746.645	ug/l	99
14) Allyl chloride	2.678	41	964459	150.960	ug/l	99
15) Acrylonitrile	3.075	53	1274179	762.599	ug/l	99
16) Acetone	2.392	43	975640	695.175	ug/l	100
17) Carbon Disulfide	2.526	76	1523226	148.974	ug/l	99
18) Methyl Acetate	2.715	43	558406	149.722	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	1616941	150.323	ug/l	99
20) Methylene Chloride	2.800	84	548865	142.156	ug/l	99
21) trans-1,2-Dichloroethene	3.105	96	533003	147.371	ug/l	97
22) Diisopropyl ether	3.770	45	1792018	145.892	ug/l	97
23) Vinyl Acetate	3.733	43	7515505	762.847	ug/l	99
24) 1,1-Dichloroethane	3.623	63	1006940	147.421	ug/l	99
25) 2-Butanone	4.562	43	1525049	746.280	ug/l	98
26) 2,2-Dichloropropane	4.489	77	790347	149.478	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	627302	146.469	ug/l	99
28) Bromochloromethane	4.910	49	464333	147.764	ug/l	100
29) Tetrahydrofuran	5.013	42	995703	755.168	ug/l	99
30) Chloroform	5.105	83	982491	141.308	ug/l	97
31) Cyclohexane	5.483	56	928560	141.781	ug/l	99
32) 1,1,1-Trichloroethane	5.397	97	892102	147.721	ug/l	98
36) 1,1-Dichloropropene	5.702	75	707227	141.221	ug/l	99
37) Ethyl Acetate	4.721	43	664604	150.587	ug/l	99
38) Carbon Tetrachloride	5.690	117	771081	144.260	ug/l	99
39) Methylcyclohexane	7.385	83	932504	149.137	ug/l	98
40) Benzene	6.044	78	2112753	145.777	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047060.D
Acq On : 21 Jul 2025 11:32
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Jul 22 03:40:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	373711	154.886	ug/l		98
42) 1,2-Dichloroethane	6.092	62	737991	144.555	ug/l		99
43) Isopropyl Acetate	6.342	43	1145157	159.182	ug/l		99
44) Trichloroethene	7.129	130	547123	147.215	ug/l		97
45) 1,2-Dichloropropane	7.434	63	529204	145.791	ug/l		97
46) Dibromomethane	7.586	93	381666	149.938	ug/l		99
47) Bromodichloromethane	7.824	83	794793	146.693	ug/l		99
48) Methyl methacrylate	7.696	41	589190	150.339	ug/l		99
49) 1,4-Dioxane	7.665	88	141473	3173.881	ug/l		97
51) 4-Methyl-2-Pentanone	8.574	43	3143746	735.203	ug/l		100
52) Toluene	8.720	92	1298426	145.703	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	802670	156.884	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	876033	156.442	ug/l		100
55) 1,1,2-Trichloroethane	9.153	97	478247	143.101	ug/l		99
56) Ethyl methacrylate	9.116	69	791875	160.053	ug/l		99
57) 1,3-Dichloropropane	9.305	76	823631	141.802	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	2120903	770.350	ug/l		99
59) 2-Hexanone	9.433	43	2172764	769.096	ug/l		99
60) Dibromochloromethane	9.519	129	583183	148.786	ug/l		99
61) 1,2-Dibromoethane	9.610	107	500995	143.366	ug/l		99
64) Tetrachloroethene	9.275	164	433805	142.999	ug/l		98
65) Chlorobenzene	10.079	112	1432482	145.306	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.165	131	495347	149.242	ug/l		98
67) Ethyl Benzene	10.195	91	2508990	145.559	ug/l		100
68) m/p-Xylenes	10.299	106	1848008	286.495	ug/l		98
69) o-Xylene	10.640	106	897705	146.292	ug/l		100
70) Styrene	10.653	104	1538516	146.214	ug/l		99
71) Bromoform	10.799	173	377881	149.877	ug/l	#	100
73) Isopropylbenzene	10.963	105	2341028	151.299	ug/l		99
74) N-amyl acetate	10.842	43	1017450	164.856	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	649081	146.858	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	737375	203.126	ug/l		82
77) Bromobenzene	11.195	156	555966	149.806	ug/l		99
78) n-propylbenzene	11.305	91	2790577	150.924	ug/l		99
79) 2-Chlorotoluene	11.366	91	1641174	148.487	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	1921023	150.280	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	234105	166.150	ug/l		95
82) 4-Chlorotoluene	11.451	91	1901346	147.381	ug/l		99
83) tert-Butylbenzene	11.713	119	1941048	151.288	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	1923088	150.829	ug/l		100
85) sec-Butylbenzene	11.890	105	2386553	148.873	ug/l		100
86) p-Isopropyltoluene	12.006	119	2001346	150.546	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	1044993	148.192	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	1039670	145.525	ug/l		98
89) n-Butylbenzene	12.329	91	1874924	150.392	ug/l		99
90) Hexachloroethane	12.536	117	376780	158.429	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	994860	147.614	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	142395	167.843	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	691853	155.373	ug/l		100
94) Hexachlorobutadiene	13.725	225	224504	148.249	ug/l		97
95) Naphthalene	13.774	128	2171681	166.363	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	662501	154.436	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047060.D
Acq On : 21 Jul 2025 11:32
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Jul 22 03:40:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

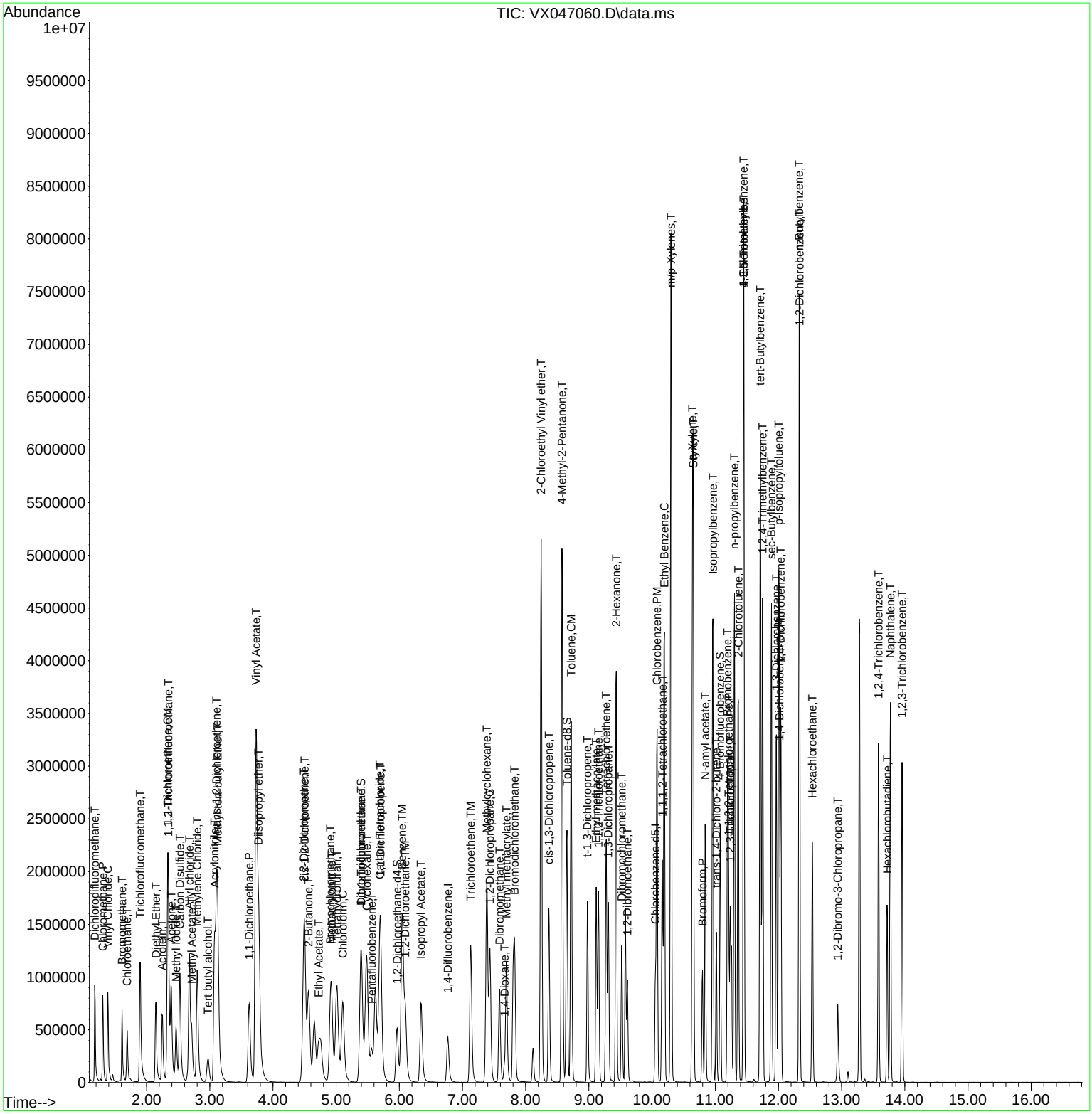
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

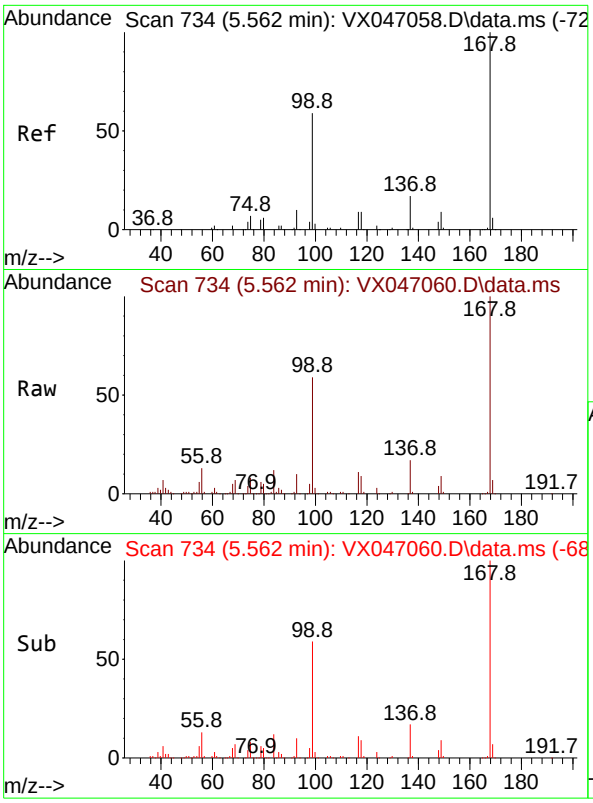
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047060.D
Acq On : 21 Jul 2025 11:32
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Jul 22 03:40:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration



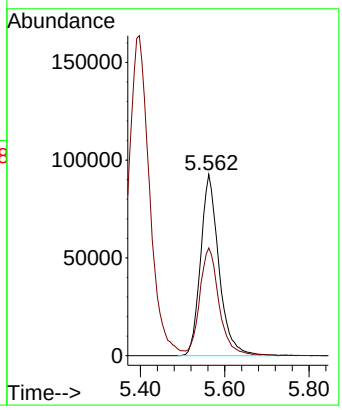


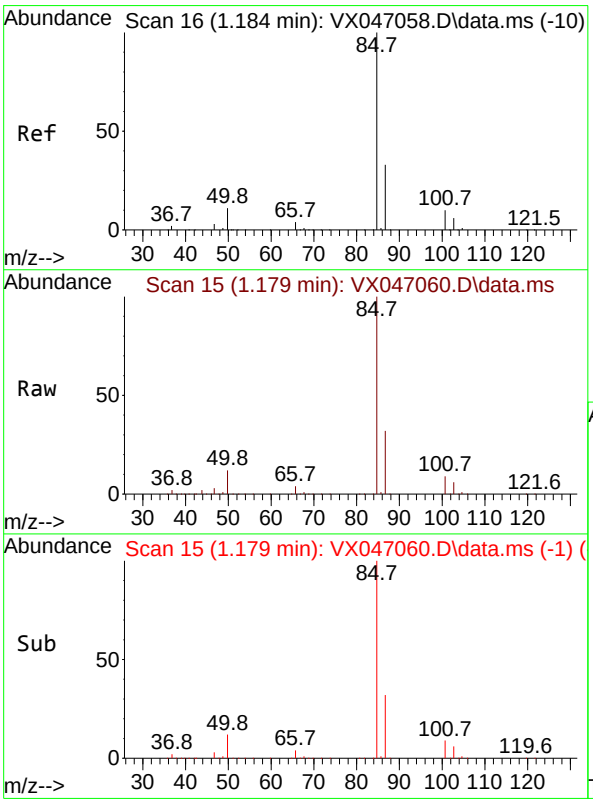
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 281238

Ion	Ratio	Lower	Upper
168	100		
99	59.4	48.0	72.0

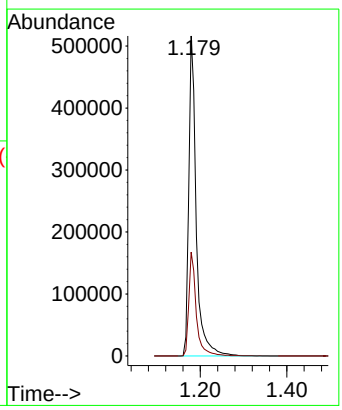


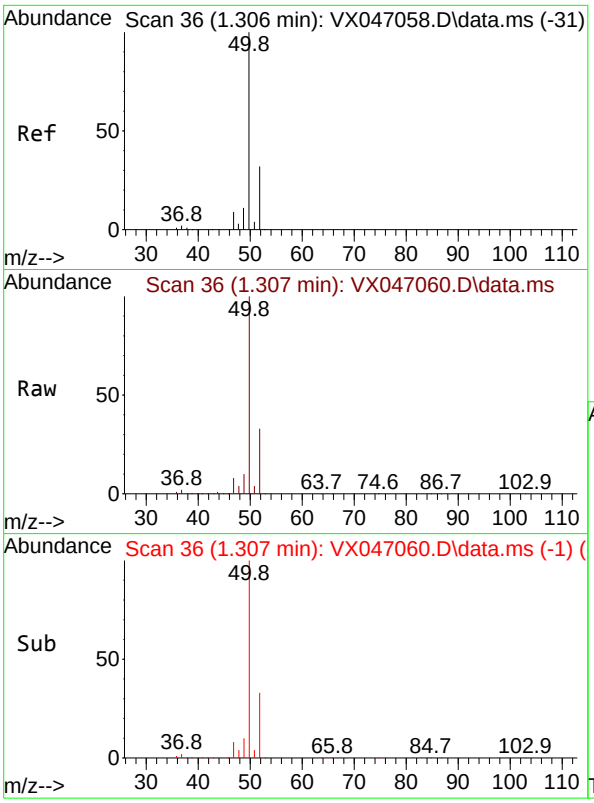


#2
Dichlorodifluoromethane
Concen: 164.628 ug/l
RT: 1.179 min Scan# 15
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 85 Resp: 614977

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.6	49.8



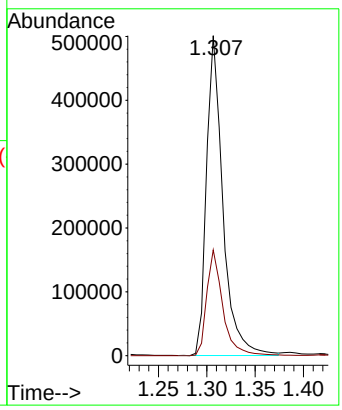


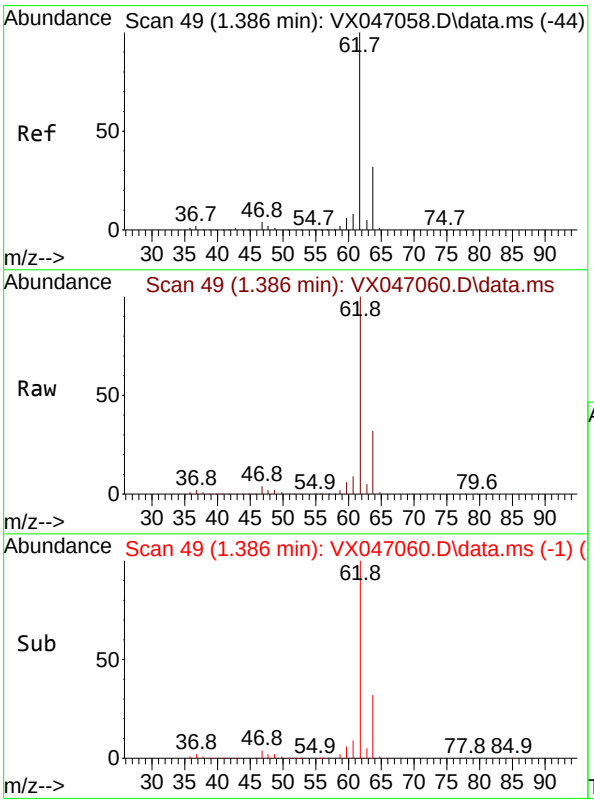
#3
Chloromethane
Concen: 160.024 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 591309

Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.4	38.2

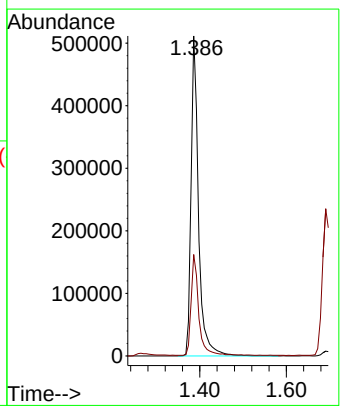


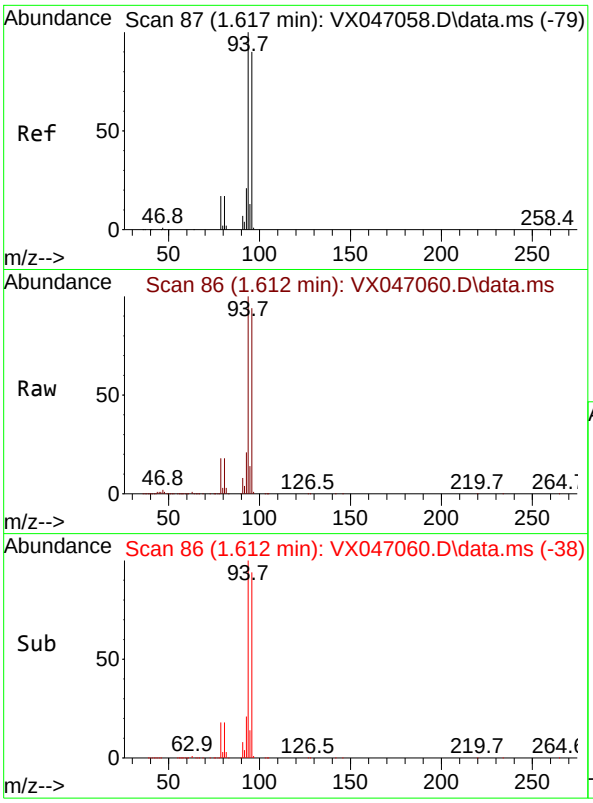


#4
Vinyl Chloride
Concen: 153.566 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 62 Resp: 609982

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.2	37.8



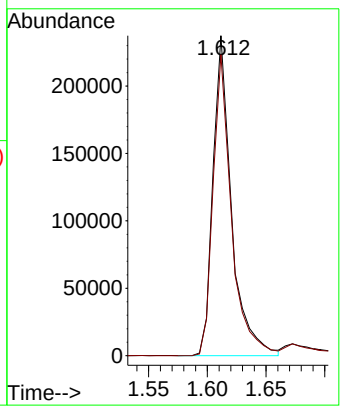


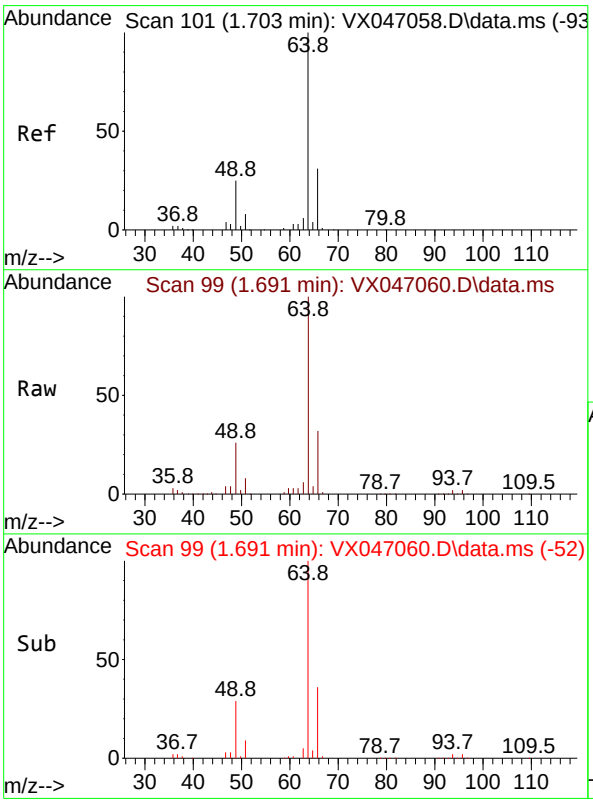
#5
Bromomethane
Concen: 120.842 ug/l
RT: 1.612 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 260740

Ion	Ratio	Lower	Upper
94	100		
96	94.1	72.3	108.5

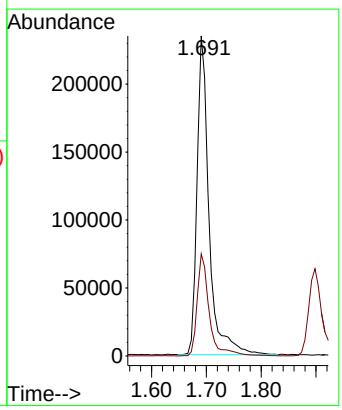


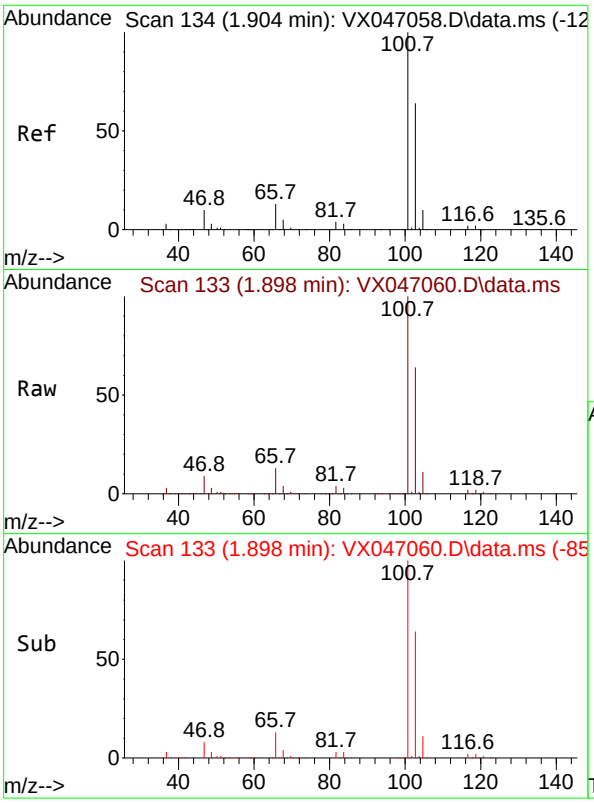


#6
Chloroethane
Concen: 137.087 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.012 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 64 Resp: 357637

Ion	Ratio	Lower	Upper
64	100		
66	32.0	25.0	37.6



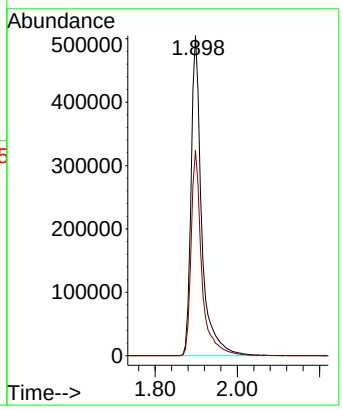


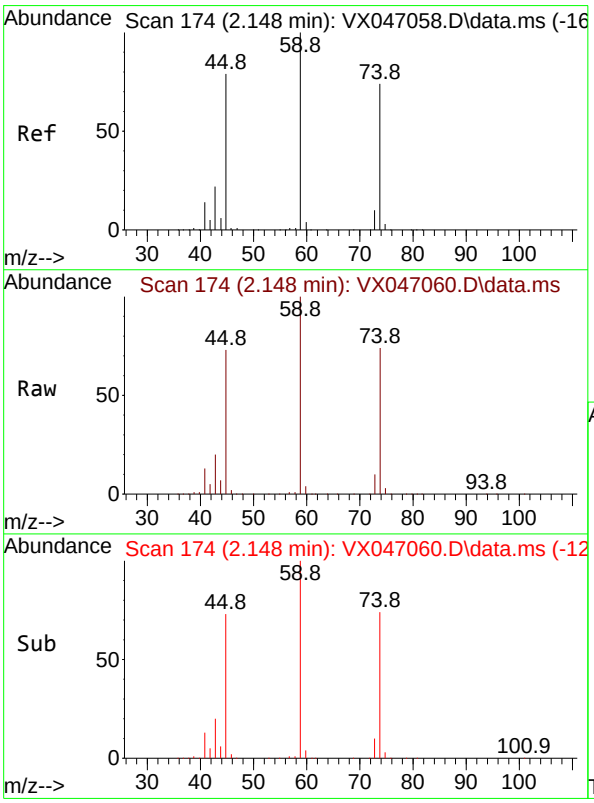
#7
Trichlorofluoromethane
Concen: 152.614 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 903925

Ion	Ratio	Lower	Upper
101	100		
103	64.1	50.9	76.3

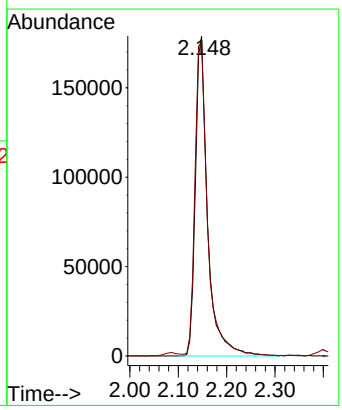


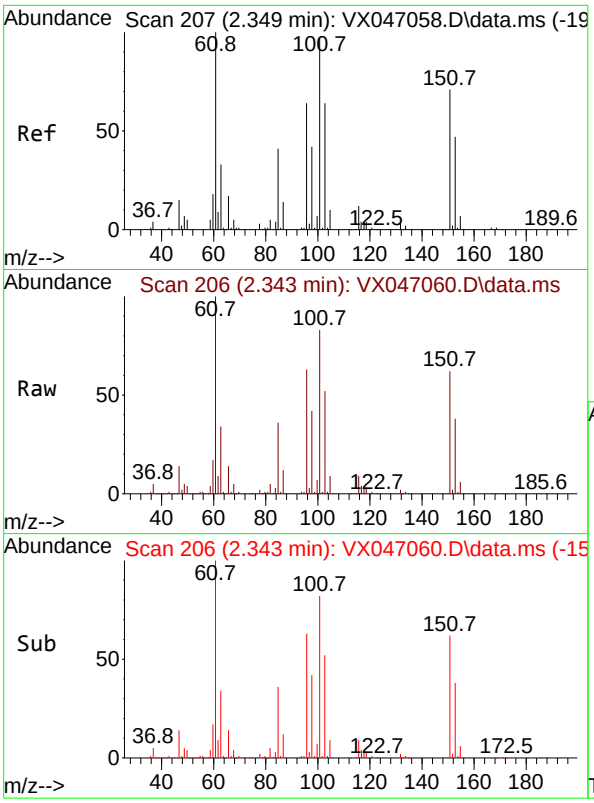


#8
Diethyl Ether
Concen: 149.683 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 74 Resp: 312592

Ion	Ratio	Lower	Upper
74	100		
45	101.9	53.0	159.0



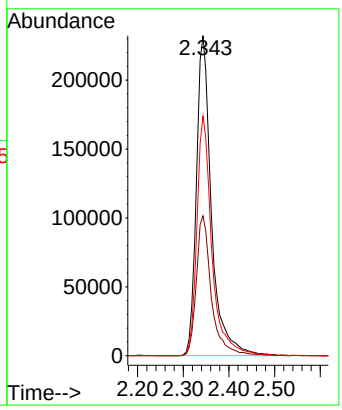


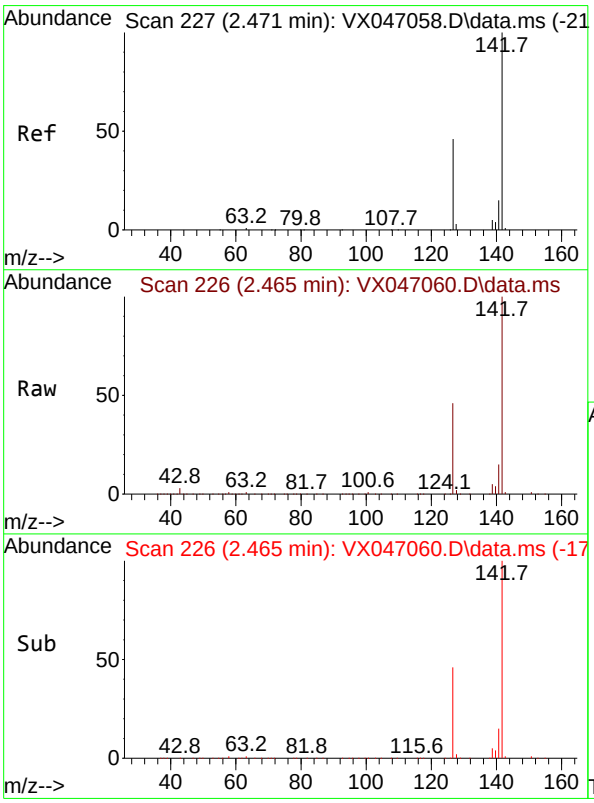
#9
1,1,2-Trichlorotrifluoroethane
Concen: 149.251 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 532594

Ion	Ratio	Lower	Upper
101	100		
85	43.8	35.4	53.0
151	74.8	59.2	88.8

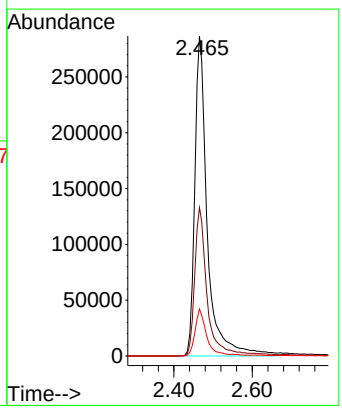


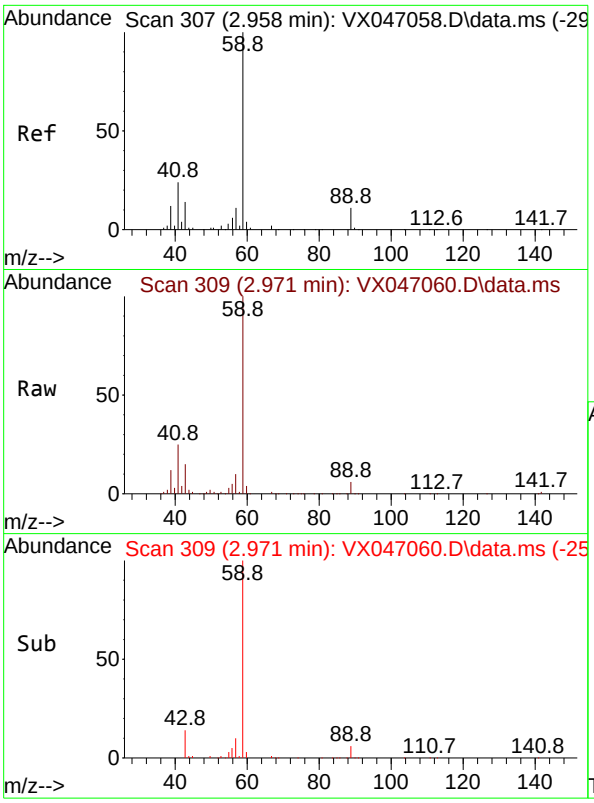


#10
Methyl Iodide
Concen: 176.203 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:142 Resp: 640817

Ion	Ratio	Lower	Upper
142	100		
127	46.4	36.6	54.8
141	13.8	10.9	16.3



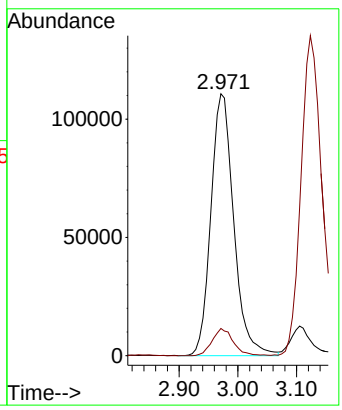


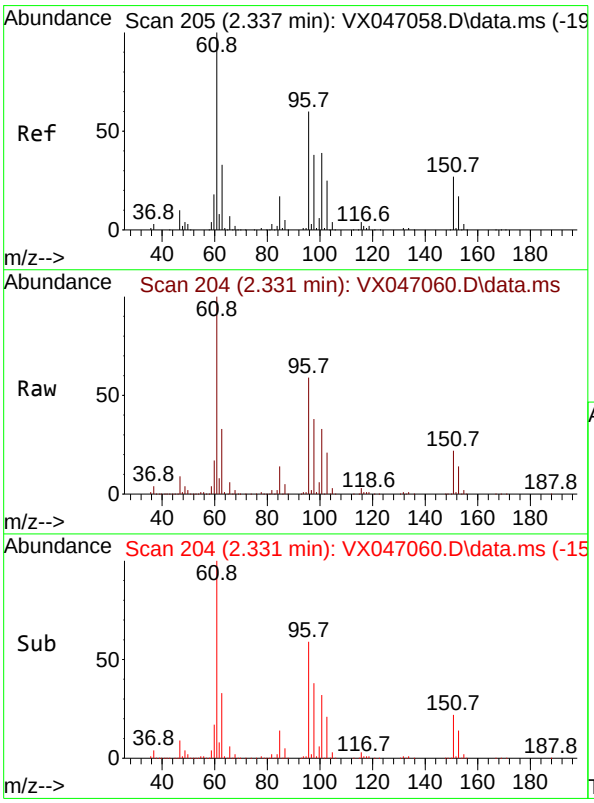
#11
Tert butyl alcohol
Concen: 752.233 ug/l
RT: 2.971 min Scan# 3
Delta R.T. 0.013 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 299604

Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.5	12.7

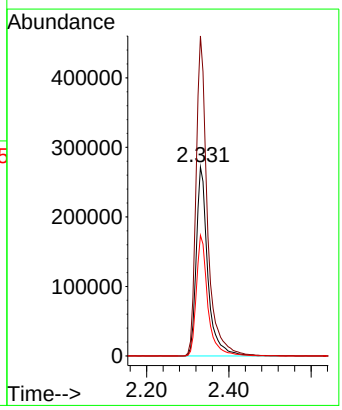


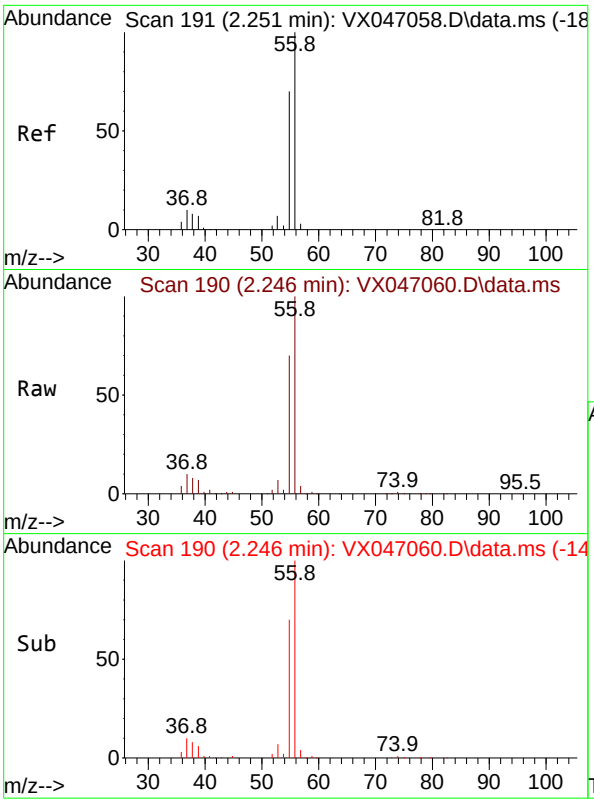


#12
1,1-Dichloroethene
Concen: 149.314 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 96 Resp: 527730

Ion	Ratio	Lower	Upper
96	100		
61	169.3	132.6	198.8
98	63.9	50.2	75.4



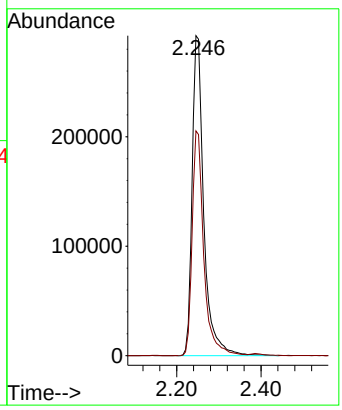


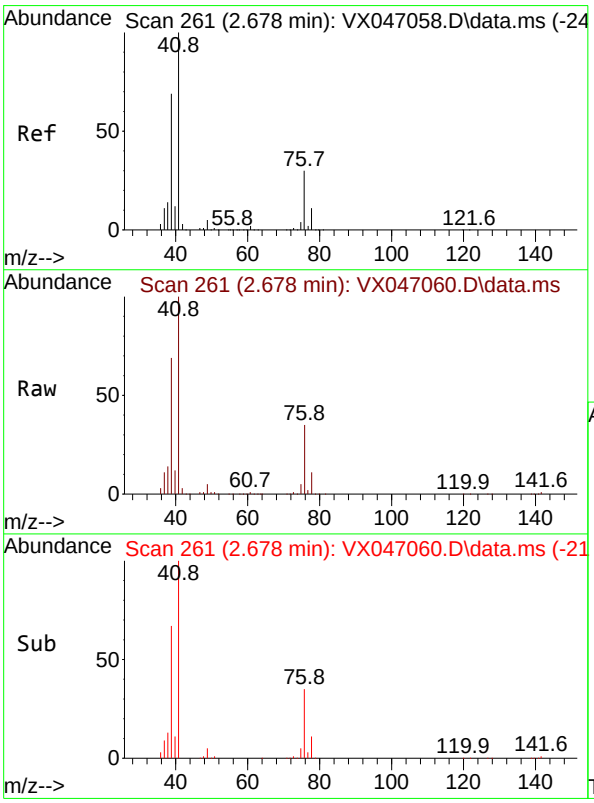
#13
Acrolein
Concen: 746.645 ug/l
RT: 2.246 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 563218

Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.7	83.5

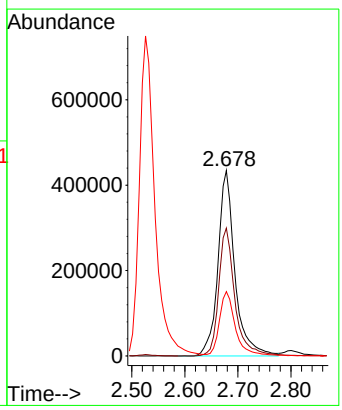


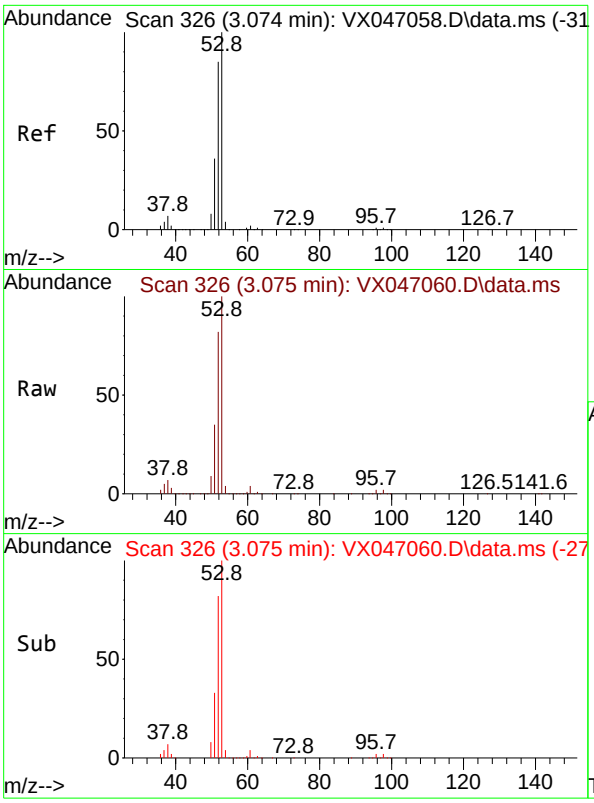


#14
Allyl chloride
Concen: 150.960 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 41 Resp: 964459

Ion	Ratio	Lower	Upper
41	100		
39	66.1	52.6	78.8
76	32.7	25.7	38.5



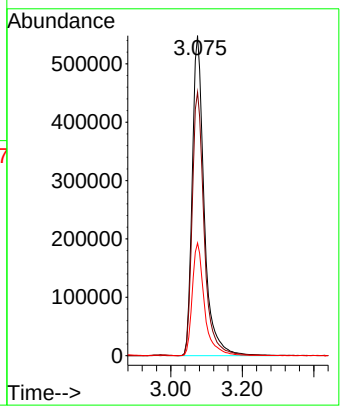


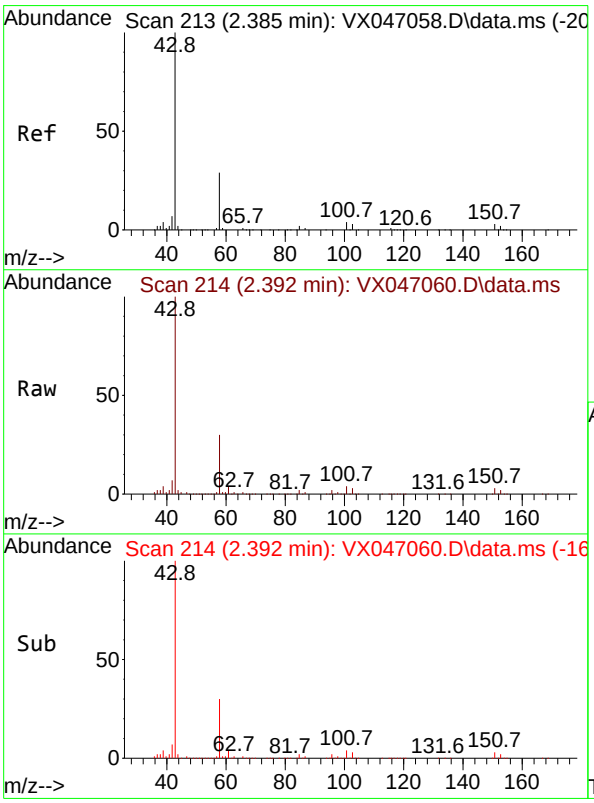
#15
Acrylonitrile
Concen: 762.599 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 1274179

Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.7	98.5
51	36.0	28.8	43.2

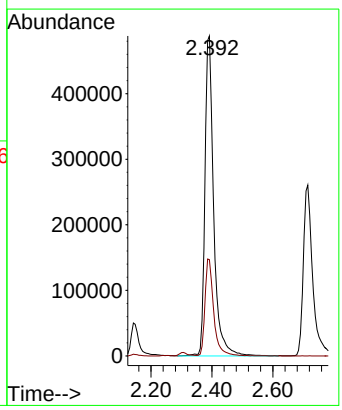


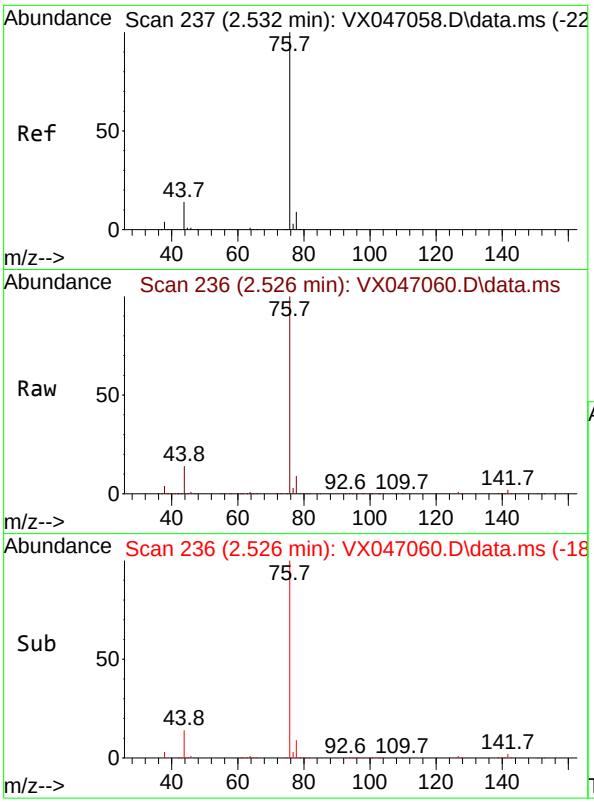


#16
Acetone
Concen: 695.175 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.007 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 43 Resp: 975640

Ion	Ratio	Lower	Upper
43	100		
58	30.1	24.0	36.0



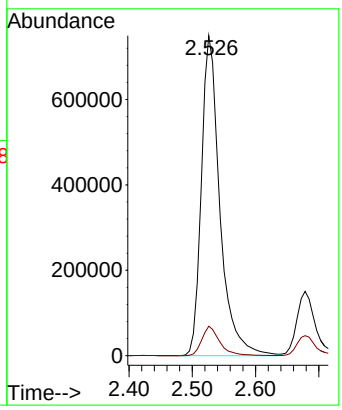


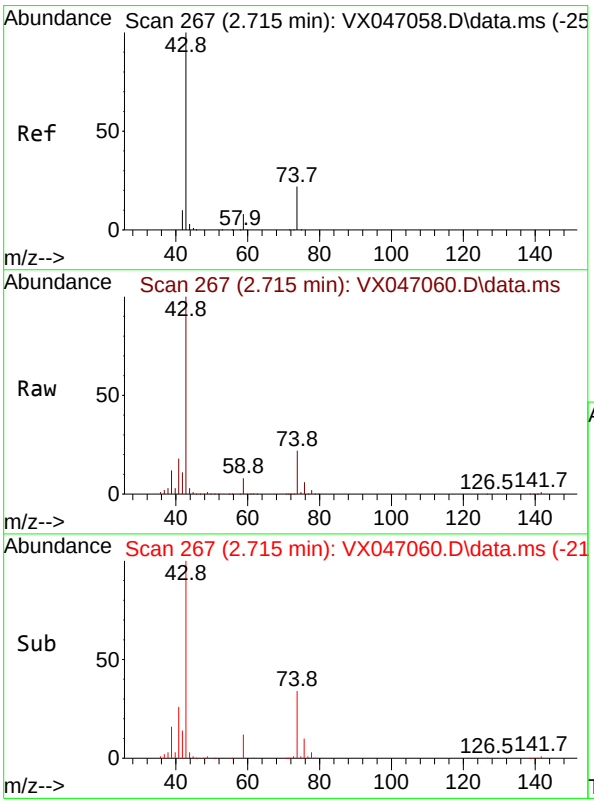
#17
Carbon Disulfide
Concen: 148.974 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 1523226

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.0	10.4

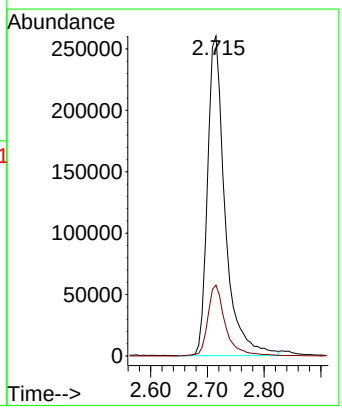


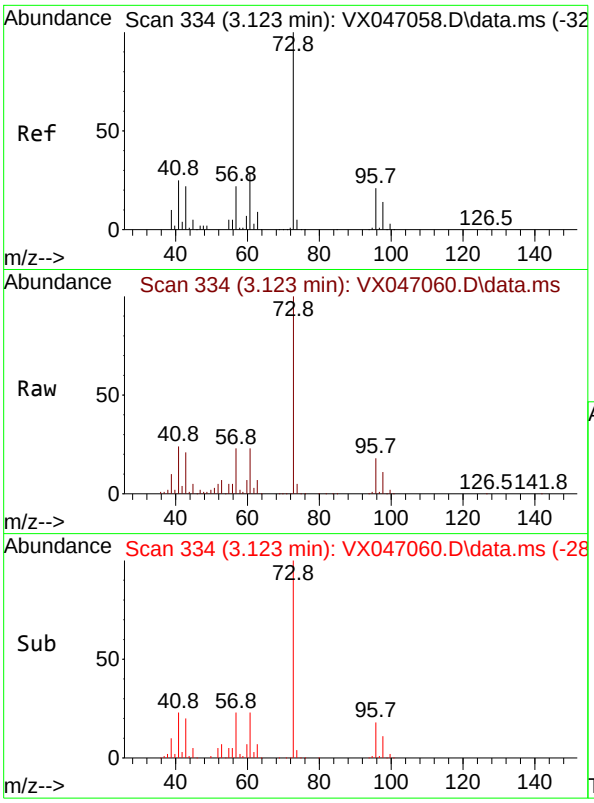


#18
Methyl Acetate
Concen: 149.722 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 43 Resp: 558406

Ion	Ratio	Lower	Upper
43	100		
74	22.6	17.7	26.5



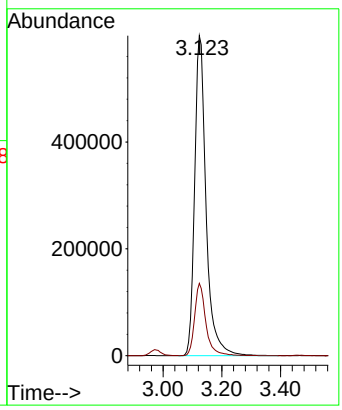


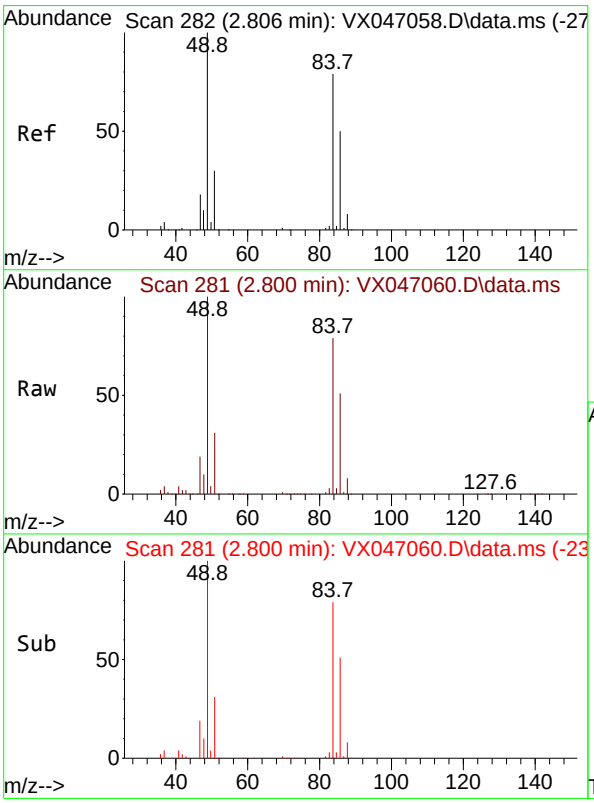
#19
Methyl tert-butyl Ether
Concen: 150.323 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 1616941

Ion	Ratio	Lower	Upper
73	100		
57	22.6	17.7	26.5

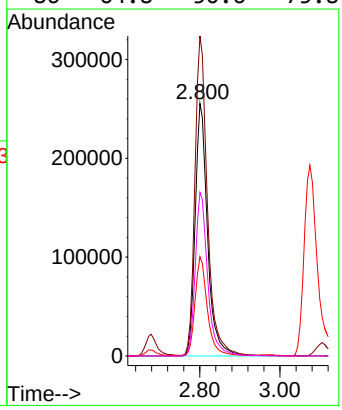


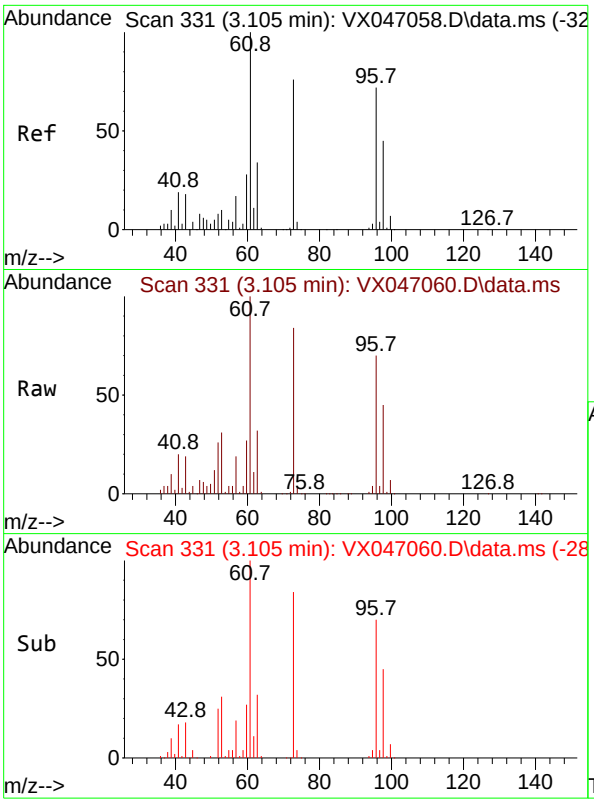


#20
Methylene Chloride
Concen: 142.156 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 84 Resp: 548865

Ion	Ratio	Lower	Upper
84	100		
49	126.6	101.6	152.4
51	39.2	30.3	45.5
86	64.8	50.6	75.8



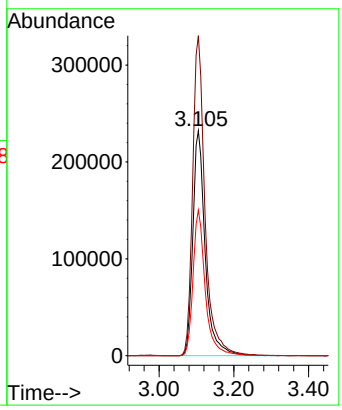


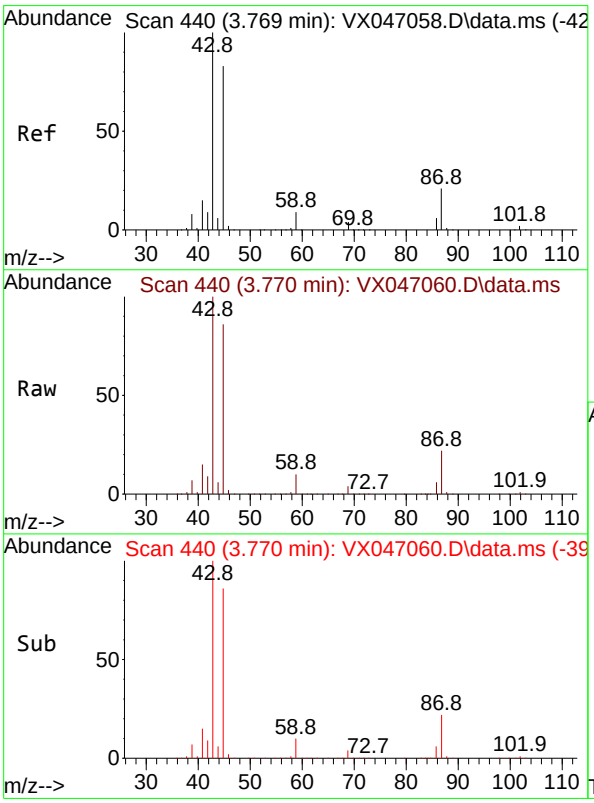
#21
trans-1,2-Dichloroethene
Concen: 147.371 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 533003

Ion	Ratio	Lower	Upper
96	100		
61	142.3	111.1	166.7
98	64.7	49.6	74.4

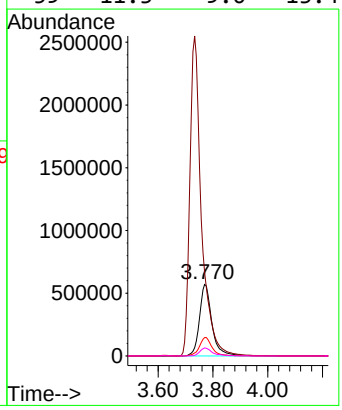


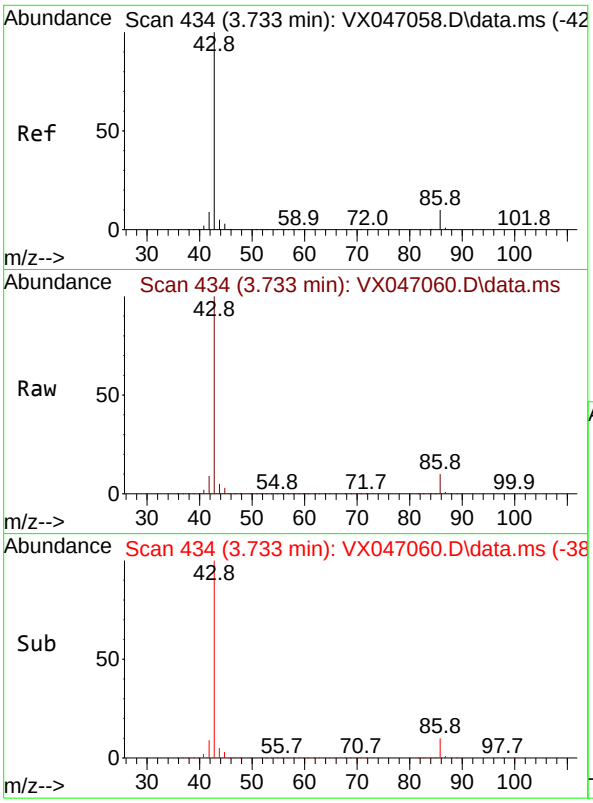


#22
Diisopropyl ether
Concen: 145.892 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 45 Resp: 1792018

Ion	Ratio	Lower	Upper
45	100		
43	116.8	96.8	145.2
87	25.8	20.5	30.7
59	11.3	9.0	13.4



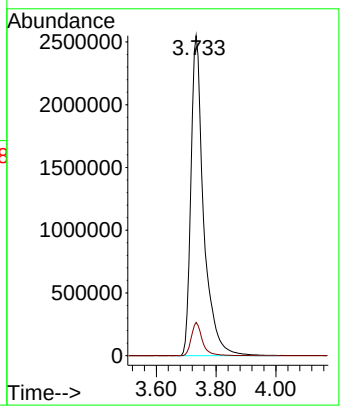


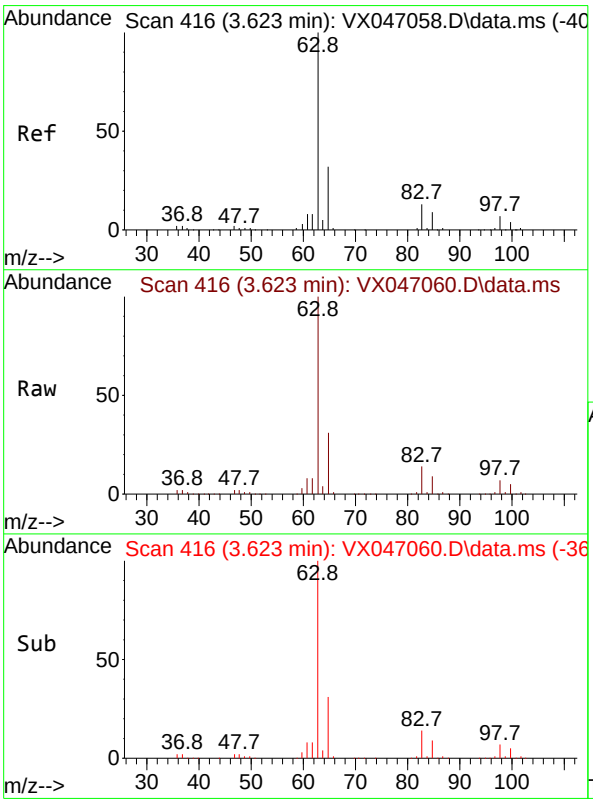
#23
Vinyl Acetate
Concen: 762.847 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 7515505

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.1	12.1

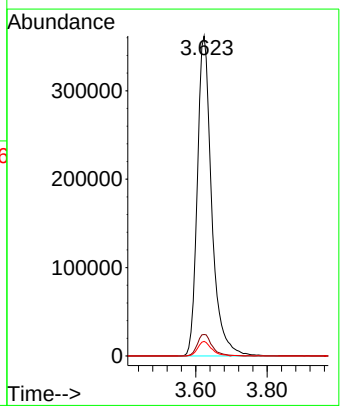


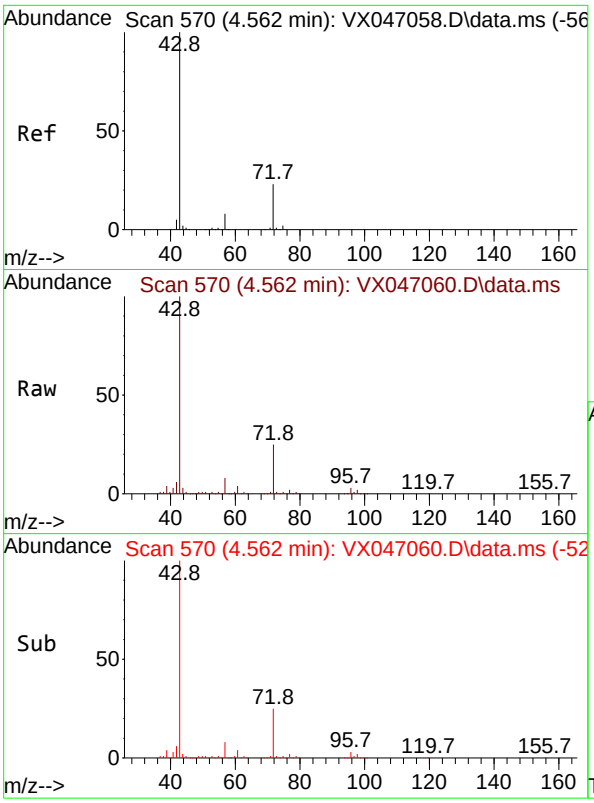


#24
1,1-Dichloroethane
Concen: 147.421 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 63 Resp: 1006940

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.6	10.8
100	4.6	2.3	6.8



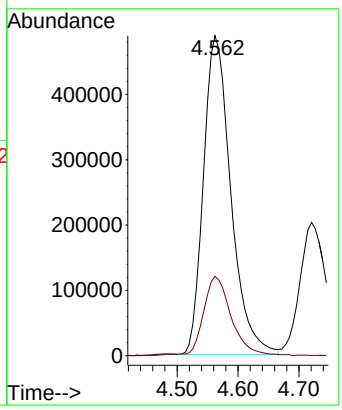


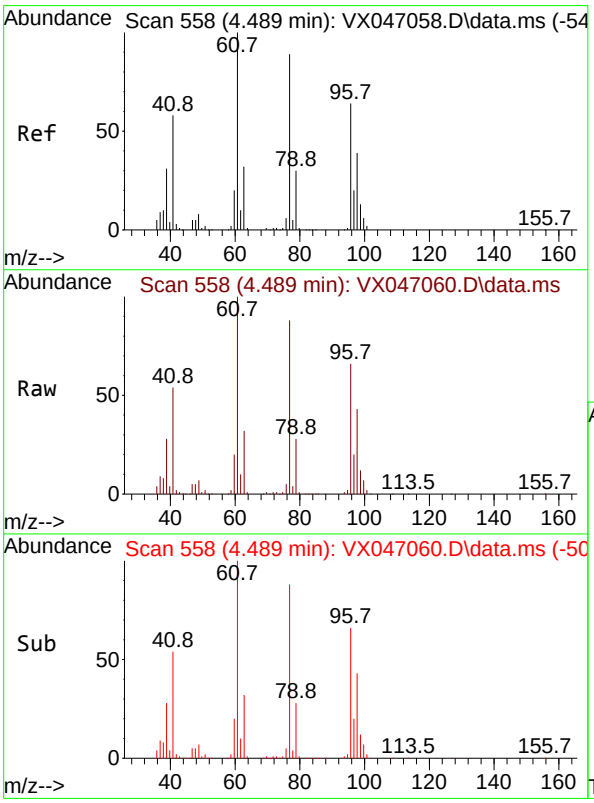
#25
2-Butanone
Concen: 746.280 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1525049

Ion	Ratio	Lower	Upper
43	100		
72	24.5	18.8	28.2

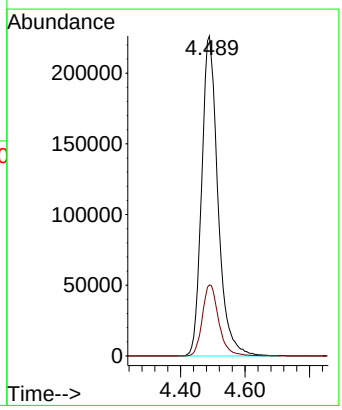


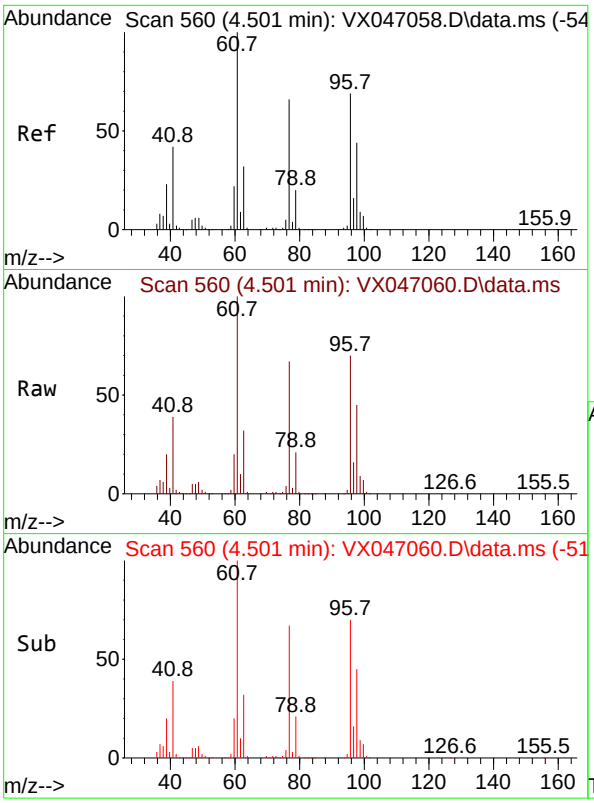


#26
2,2-Dichloropropane
Concen: 149.478 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 77 Resp: 790347

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.4	34.1



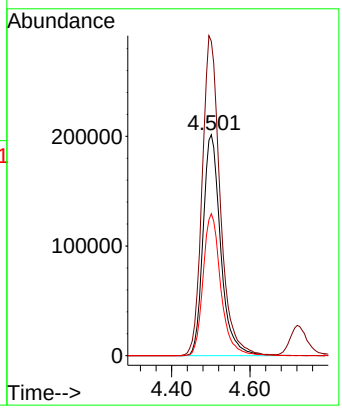


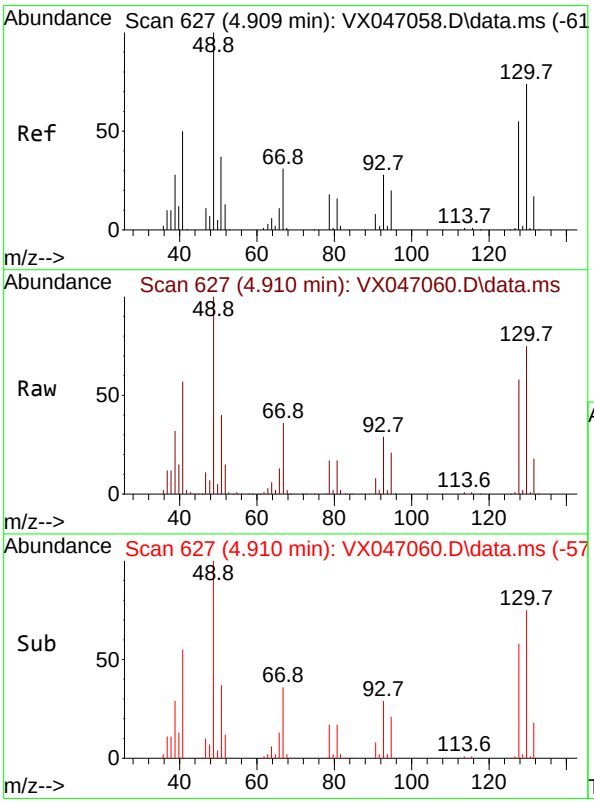
#27
cis-1,2-Dichloroethene
Concen: 146.469 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 627302

Ion	Ratio	Lower	Upper
96	100		
61	148.2	0.0	298.6
98	64.7	0.0	128.8

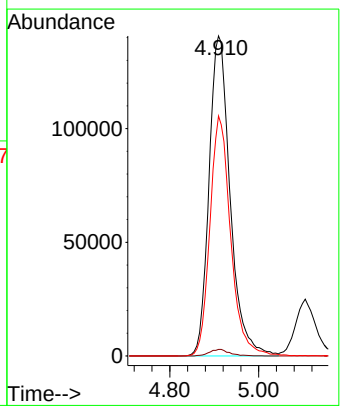


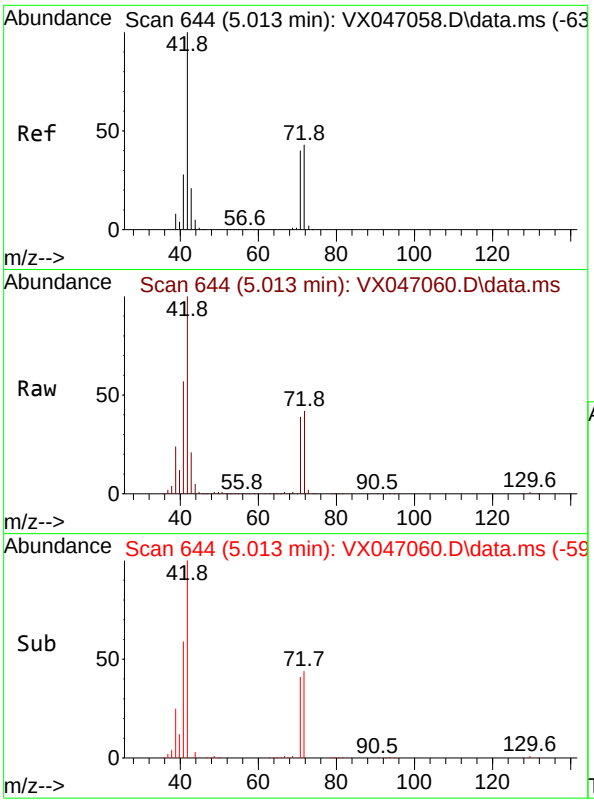


#28
Bromochloromethane
Concen: 147.764 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 49 Resp: 464333

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	73.5	59.0	88.4



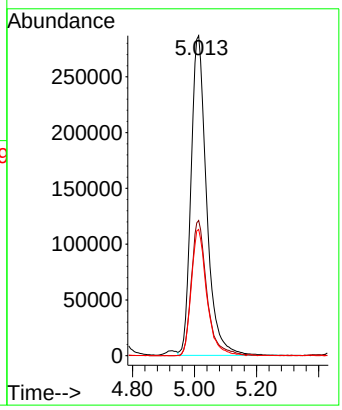


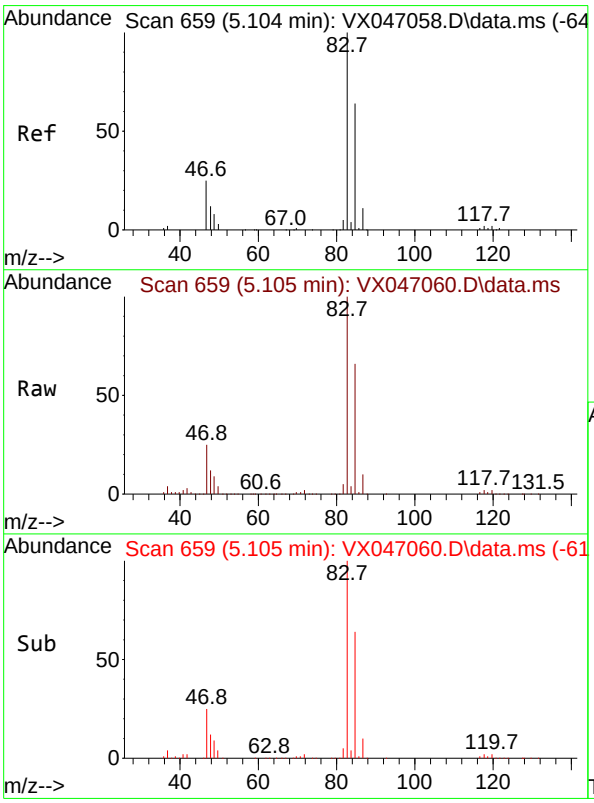
#29
Tetrahydrofuran
Concen: 755.168 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 995703

Ion	Ratio	Lower	Upper
42	100		
72	42.5	33.7	50.5
71	39.2	31.0	46.4

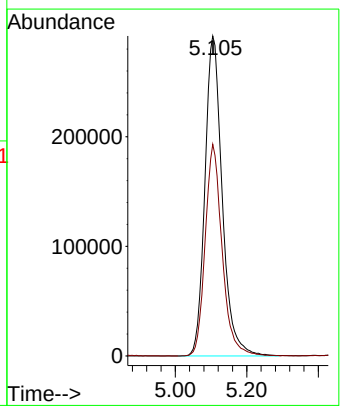


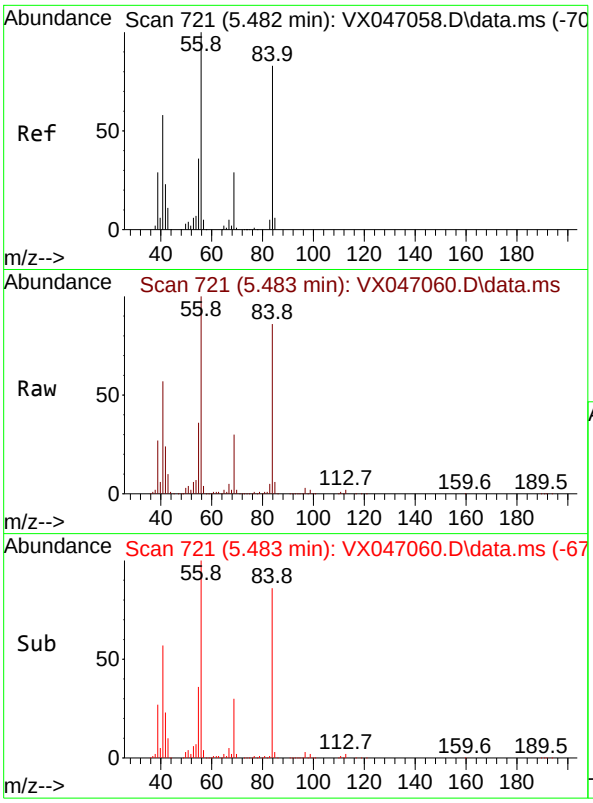


#30
Chloroform
Concen: 141.308 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 83 Resp: 982491

Ion	Ratio	Lower	Upper
83	100		
85	66.2	50.9	76.3



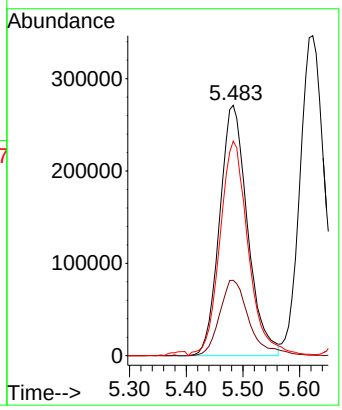


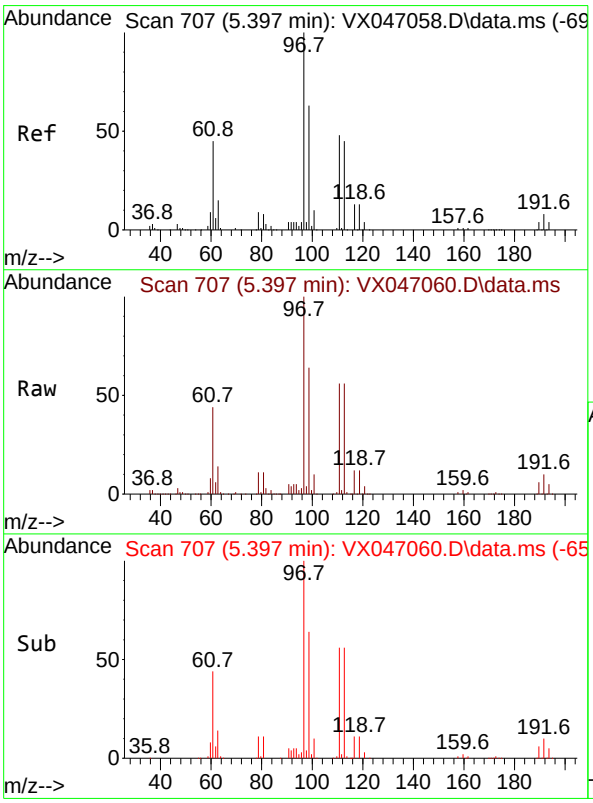
#31
Cyclohexane
Concen: 141.781 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 928560

Ion	Ratio	Lower	Upper
56	100		
69	29.7	23.3	34.9
84	84.1	66.5	99.7

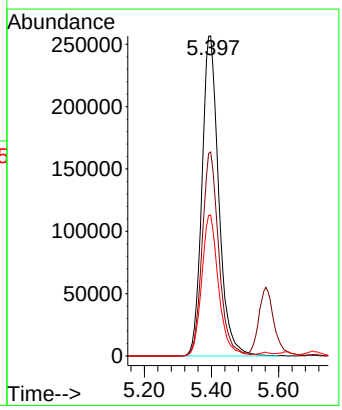


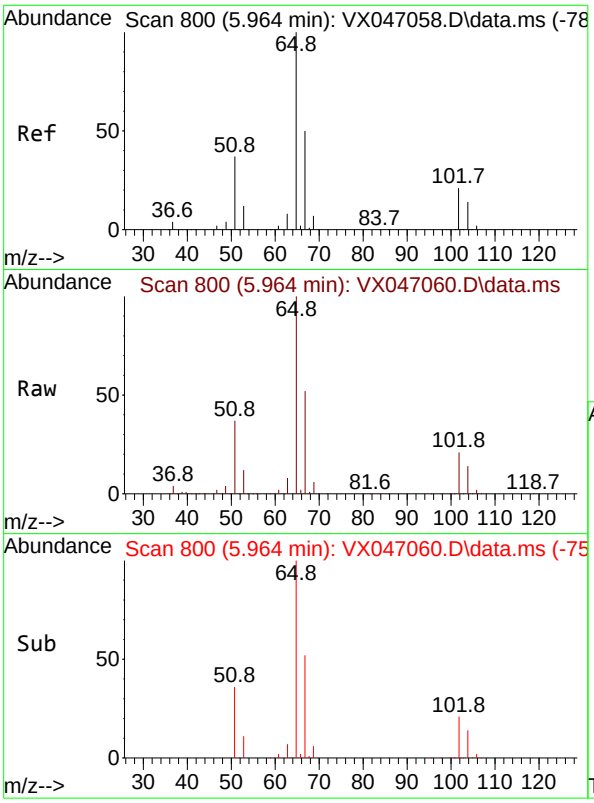


#32
1,1,1-Trichloroethane
Concen: 147.721 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 97 Resp: 892102

Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.2	76.8
61	44.2	37.1	55.7



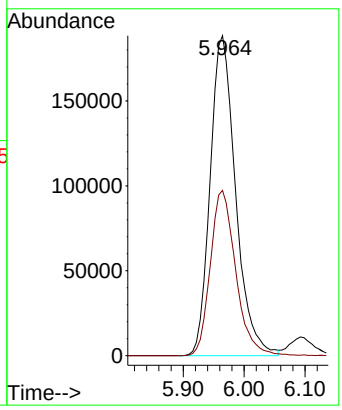


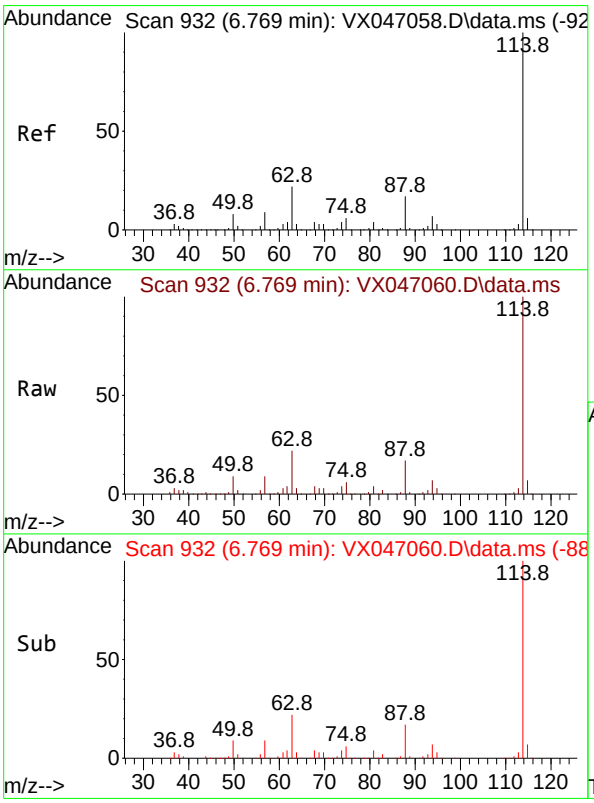
#33
1,2-Dichloroethane-d4
Concen: 156.279 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 547497

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	104.8

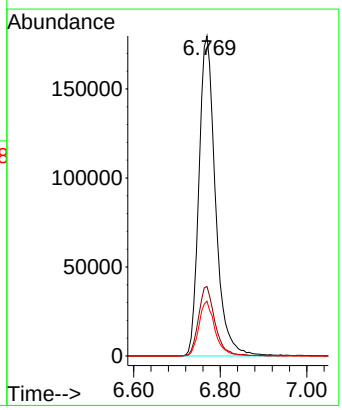


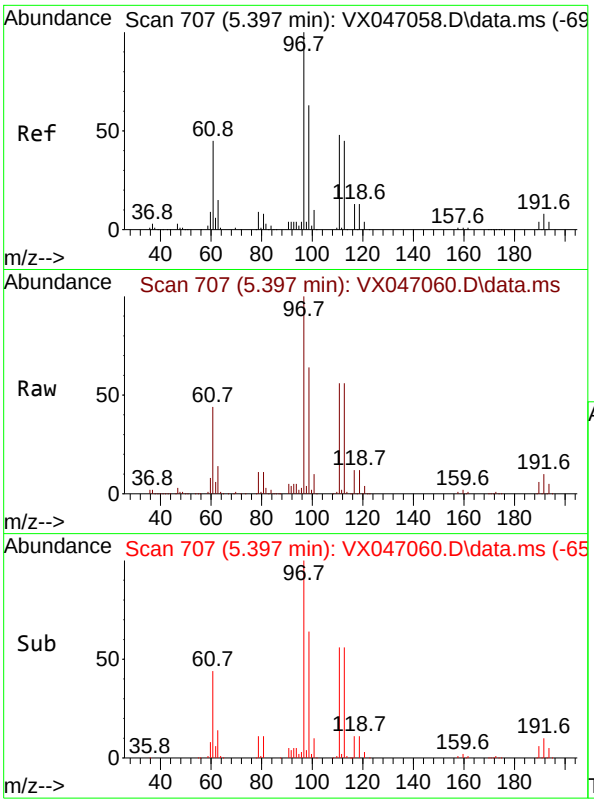


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:114 Resp: 475828

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.2
88	17.1	0.0	33.8



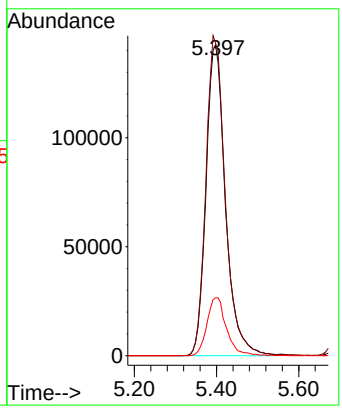


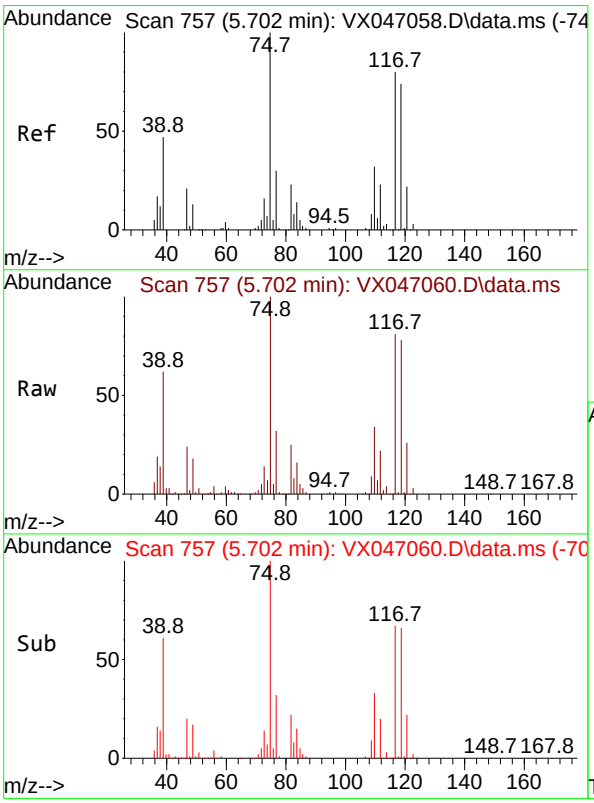
#35
Dibromofluoromethane
Concen: 159.361 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 468188

Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.6	124.0
192	18.6	14.9	22.3

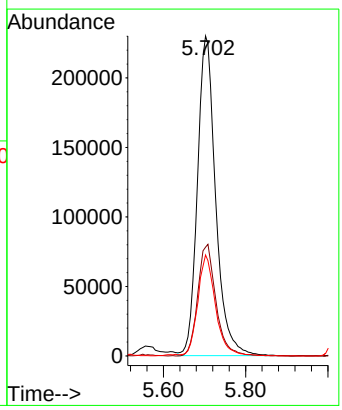


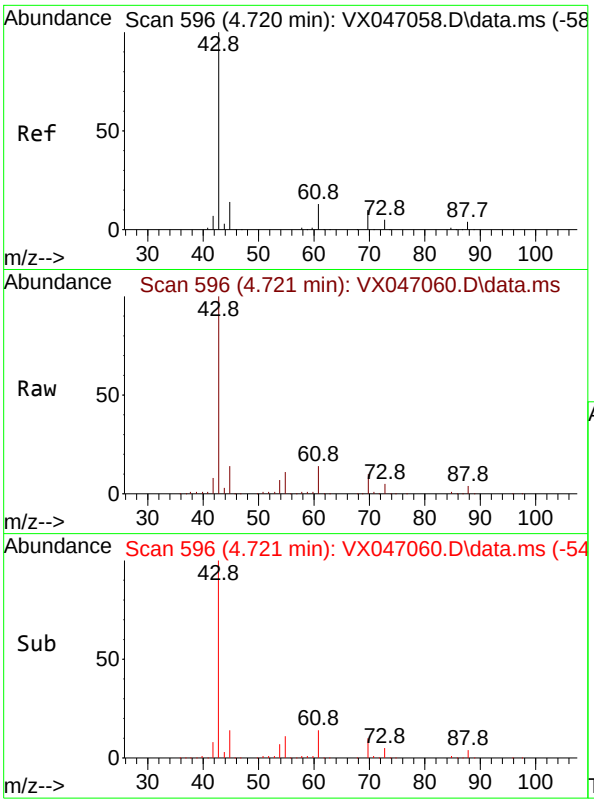


#36
1,1-Dichloropropene
Concen: 141.221 ug/l
RT: 5.702 min Scan# 757
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 75 Resp: 707227

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.2	51.5
77	30.7	25.1	37.7



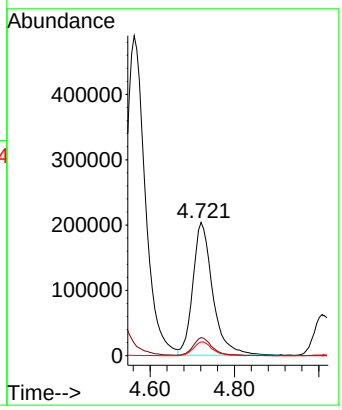


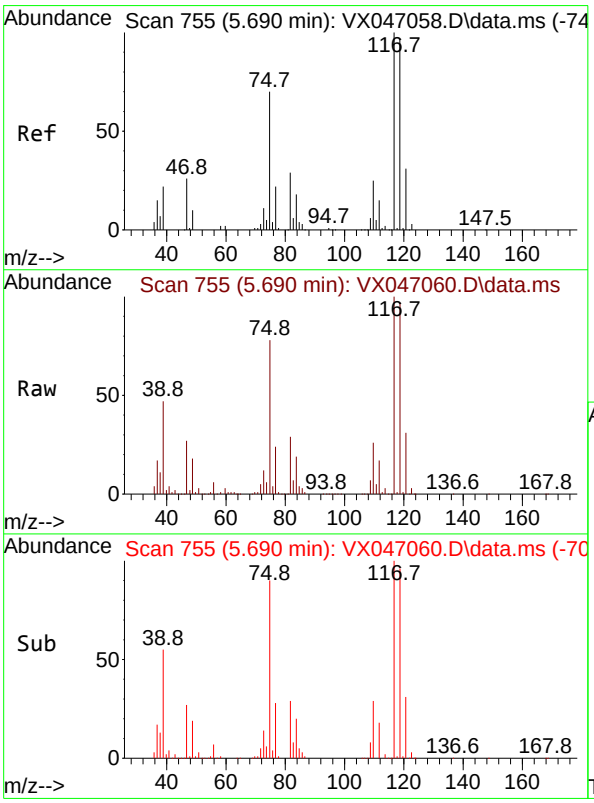
#37
Ethyl Acetate
Concen: 150.587 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 664604

Ion	Ratio	Lower	Upper
43	100		
61	13.2	10.2	15.2
70	10.1	8.1	12.1

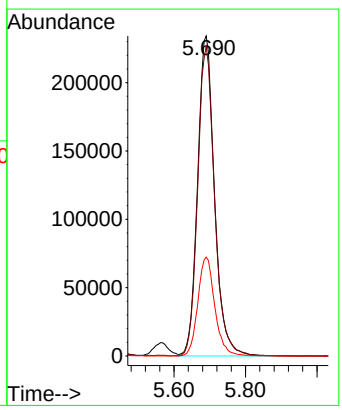


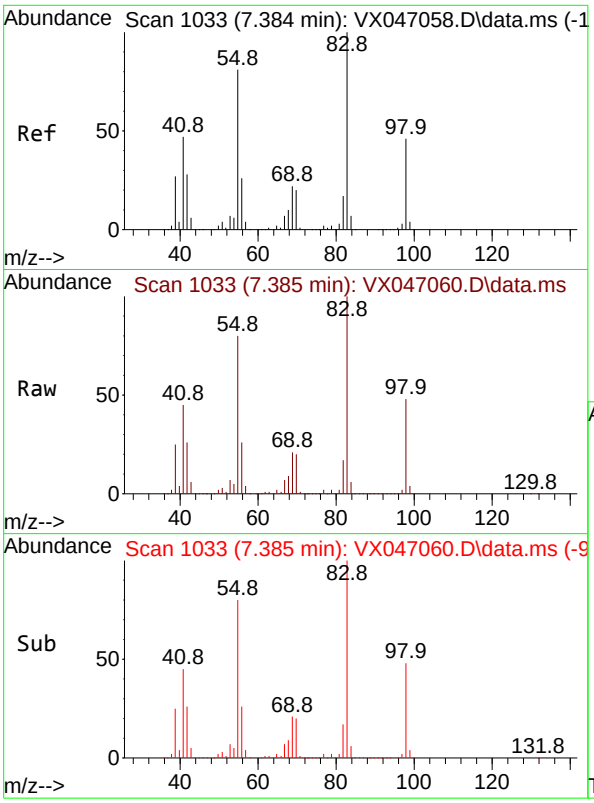


#38
Carbon Tetrachloride
Concen: 144.260 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:117 Resp: 771081

Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.6	115.0
121	30.9	24.4	36.6



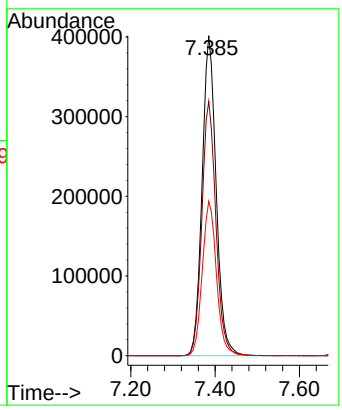


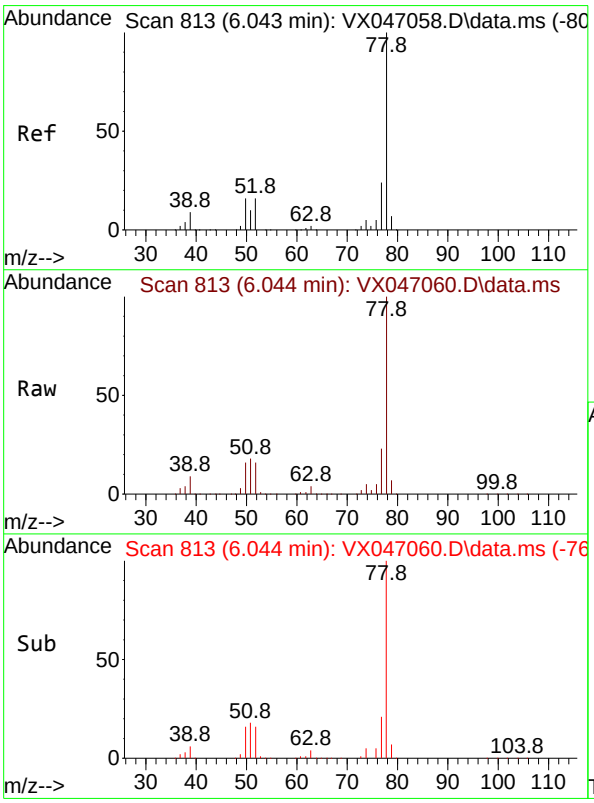
#39
Methylcyclohexane
Concen: 149.137 ug/l
RT: 7.385 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 932504

Ion	Ratio	Lower	Upper
83	100		
55	79.5	64.5	96.7
98	48.2	36.9	55.3

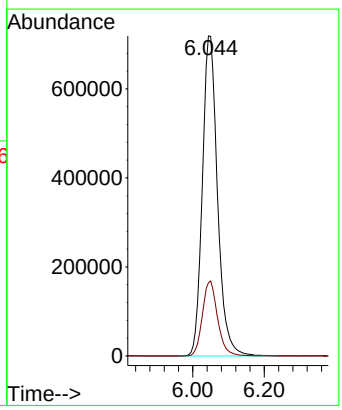


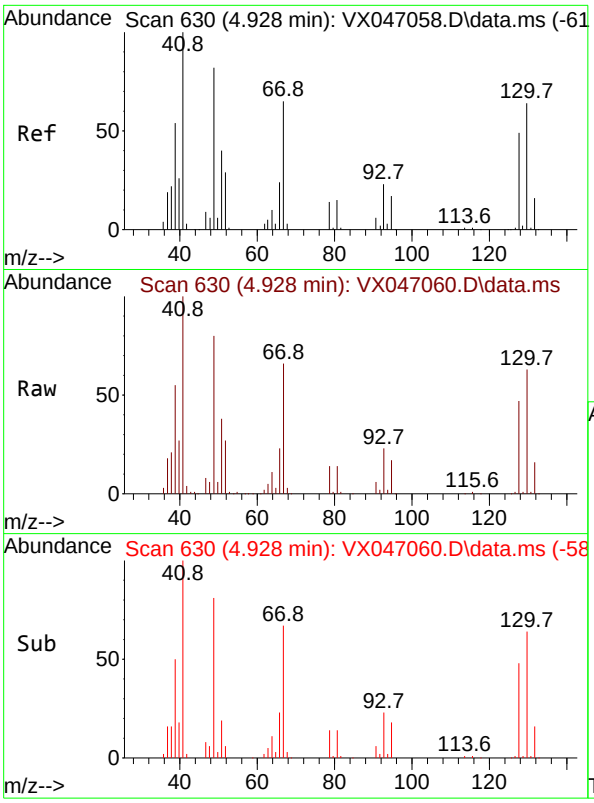


#40
Benzene
Concen: 145.777 ug/l
RT: 6.044 min Scan# 813
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 78 Resp: 2112753

Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.0	28.4



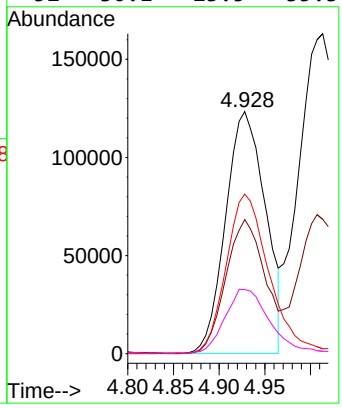


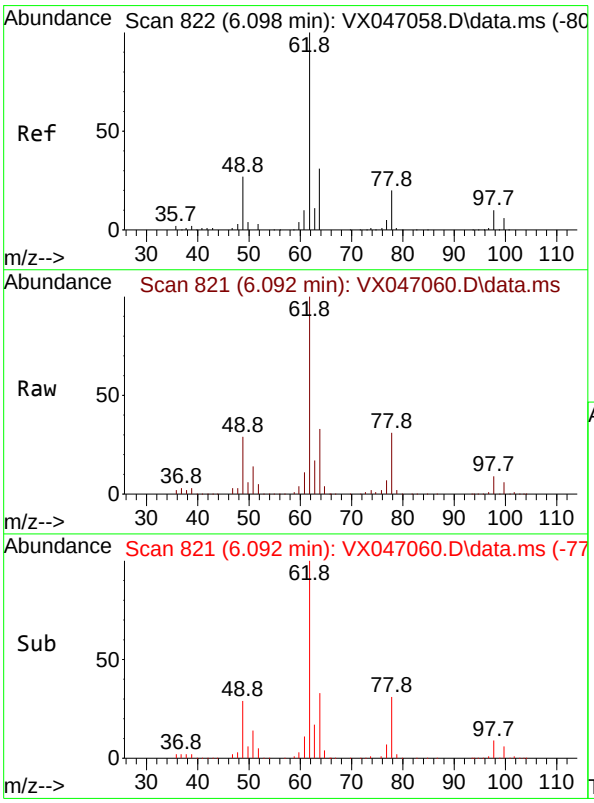
#41
Methacrylonitrile
Concen: 154.886 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 373711

Ion	Ratio	Lower	Upper
41	100		
39	54.1	44.2	66.2
67	72.4	56.4	84.6
52	30.1	23.5	35.3

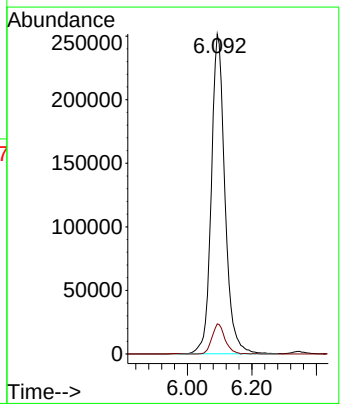


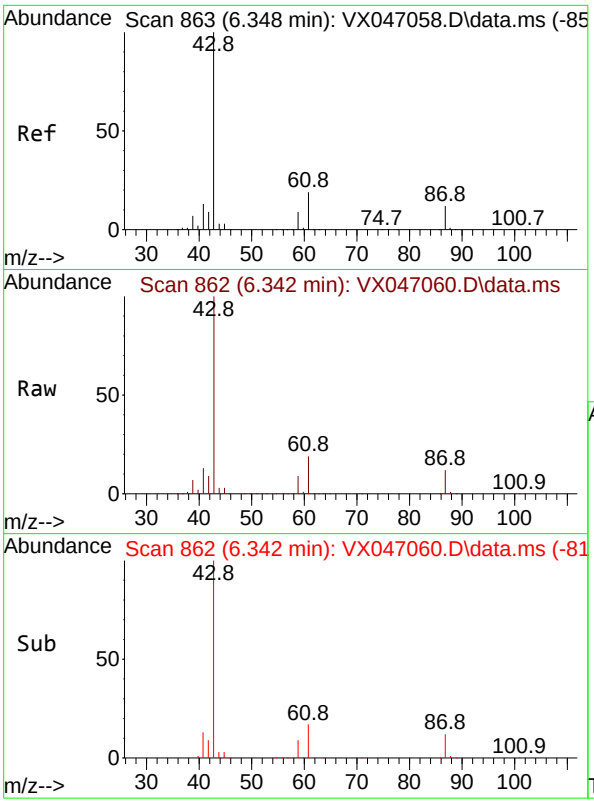


#42
1,2-Dichloroethane
Concen: 144.555 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 62 Resp: 737991

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	18.8



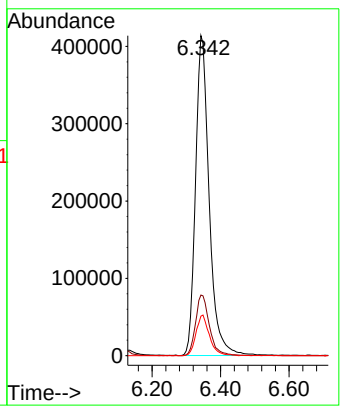


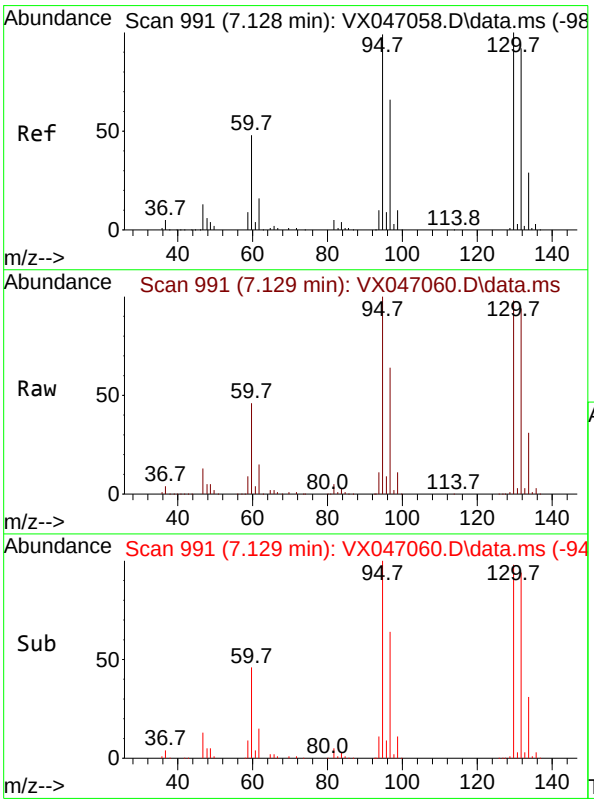
#43
Isopropyl Acetate
Concen: 159.182 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1145157

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.1	22.7
87	12.5	9.7	14.5

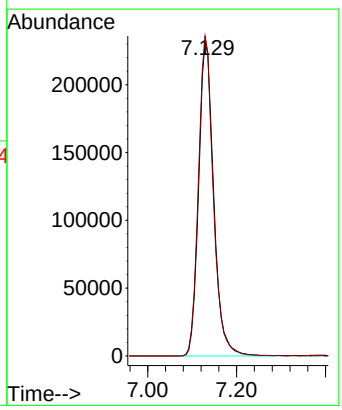


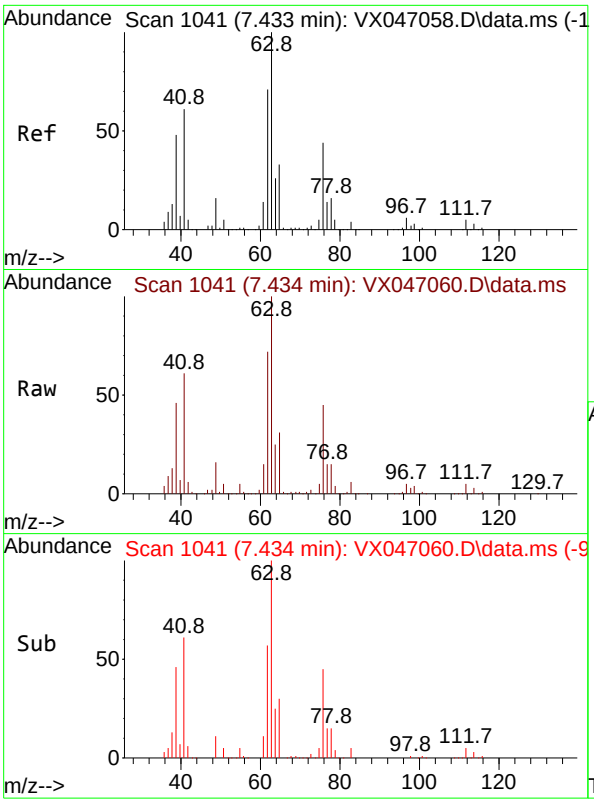


#44
Trichloroethene
Concen: 147.215 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:130 Resp: 547123

Ion	Ratio	Lower	Upper
130	100		
95	101.8	0.0	198.6



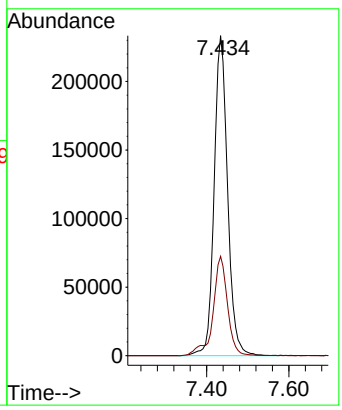


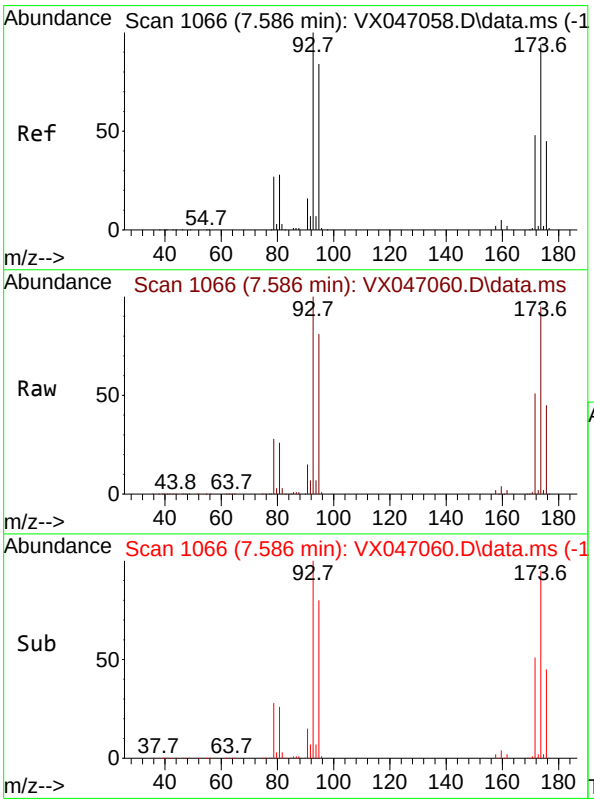
#45
1,2-Dichloropropane
Concen: 145.791 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 529204

Ion	Ratio	Lower	Upper
63	100		
65	31.1	26.3	39.5

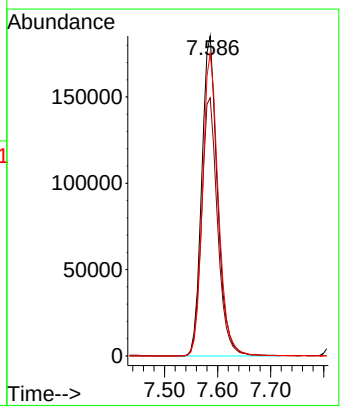


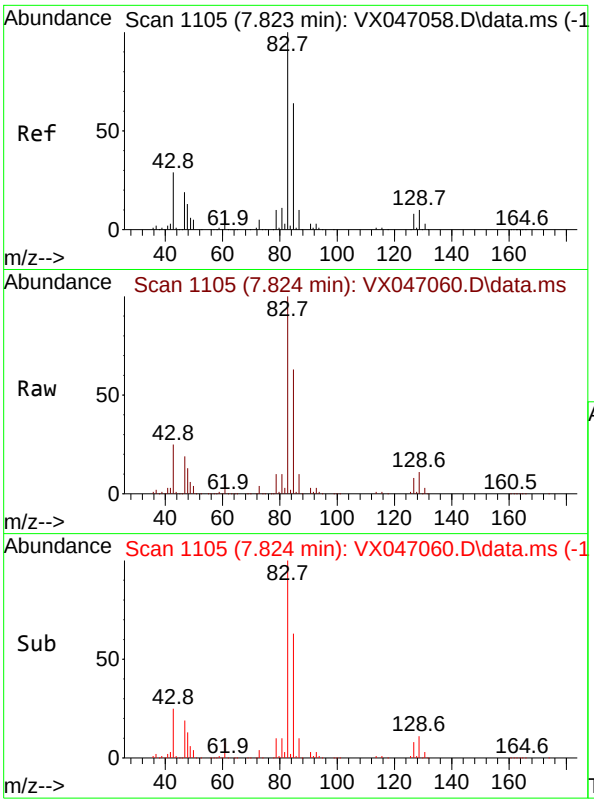


#46
Dibromomethane
Concen: 149.938 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 93 Resp: 381666

Ion	Ratio	Lower	Upper
93	100		
95	81.9	65.9	98.9
174	94.8	74.6	112.0



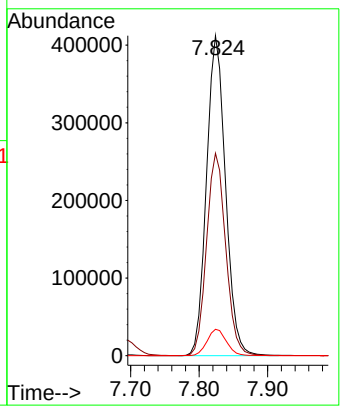


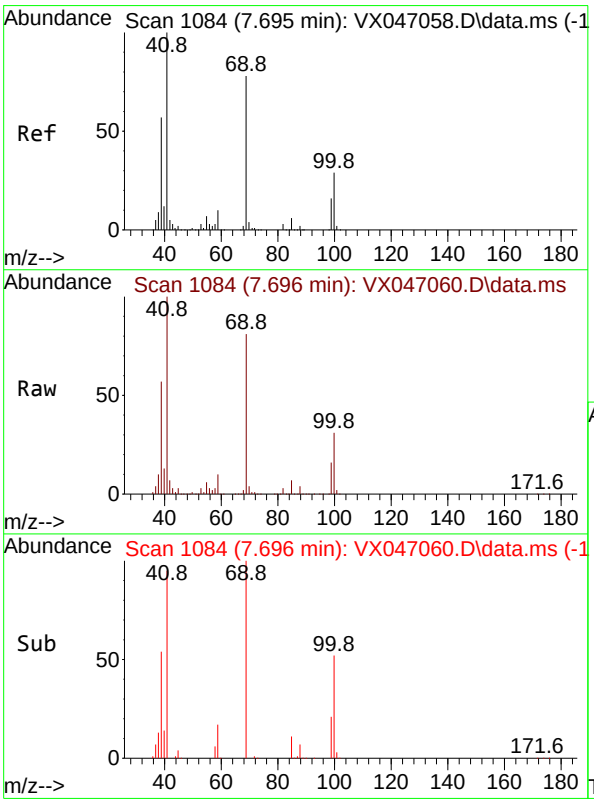
#47
Bromodichloromethane
Concen: 146.693 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 794793

Ion	Ratio	Lower	Upper
83	100		
85	63.2	49.9	74.9
127	8.2	6.6	10.0

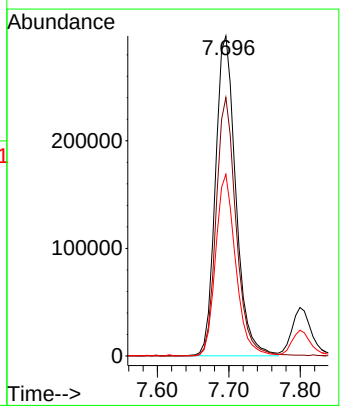


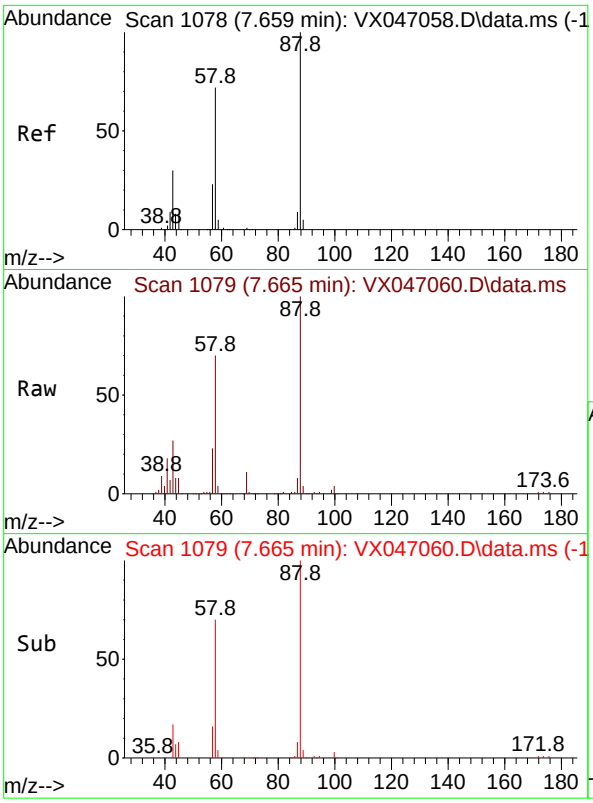


#48
Methyl methacrylate
Concen: 150.339 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 41 Resp: 589190

Ion	Ratio	Lower	Upper
41	100		
69	79.1	62.3	93.5
39	55.7	44.8	67.2



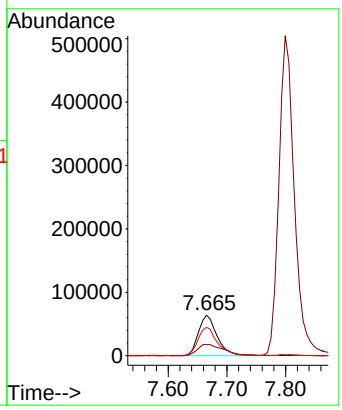


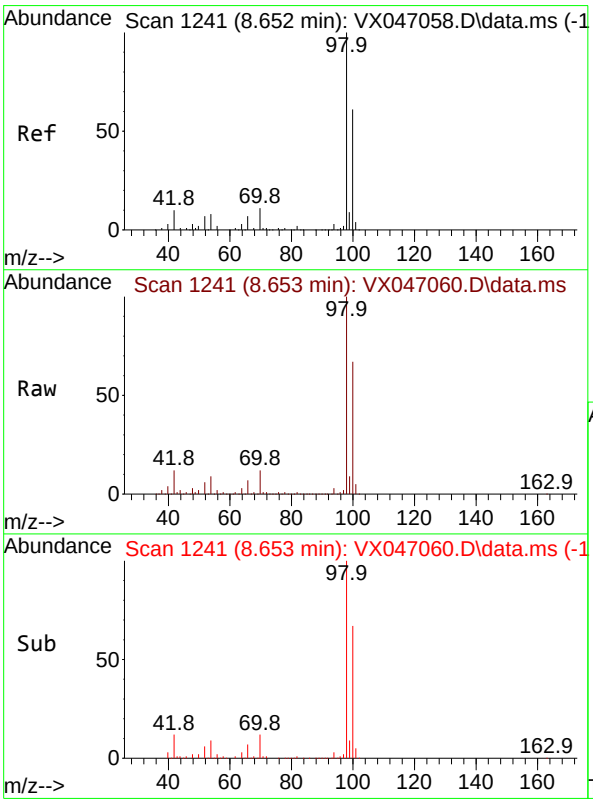
#49
1,4-Dioxane
Concen: 3173.881 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 141473

Ion	Ratio	Lower	Upper
88	100		
43	37.9	33.6	50.4
58	72.9	58.8	88.2

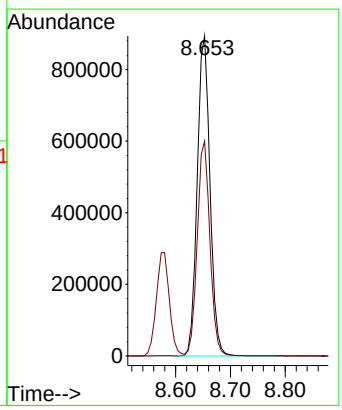


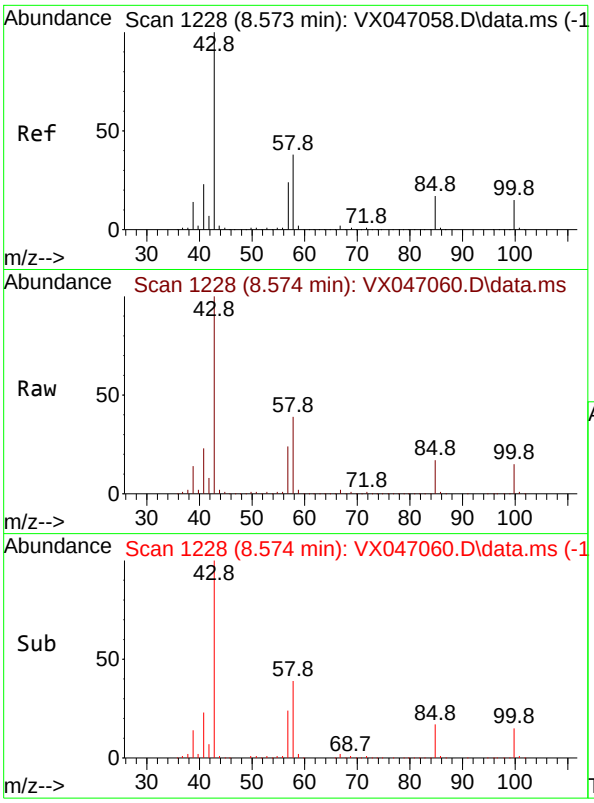


#50
Toluene-d8
Concen: 152.197 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 98 Resp: 1448057

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.3	79.9



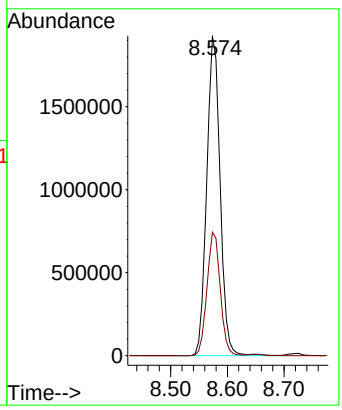


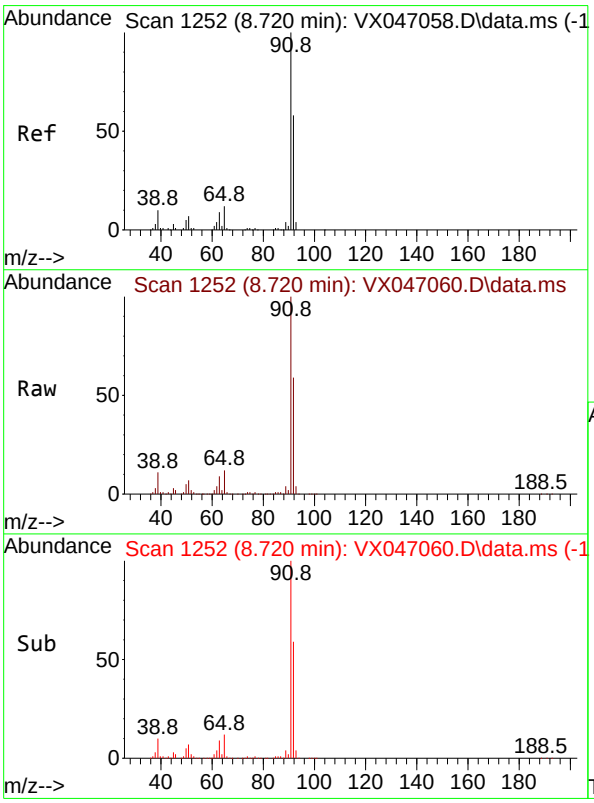
#51
4-Methyl-2-Pentanone
Concen: 735.203 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 3143746

Ion	Ratio	Lower	Upper
43	100		
58	38.5	30.6	45.8

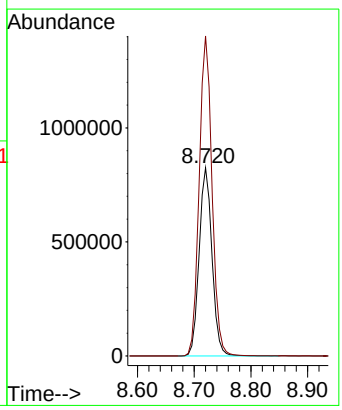


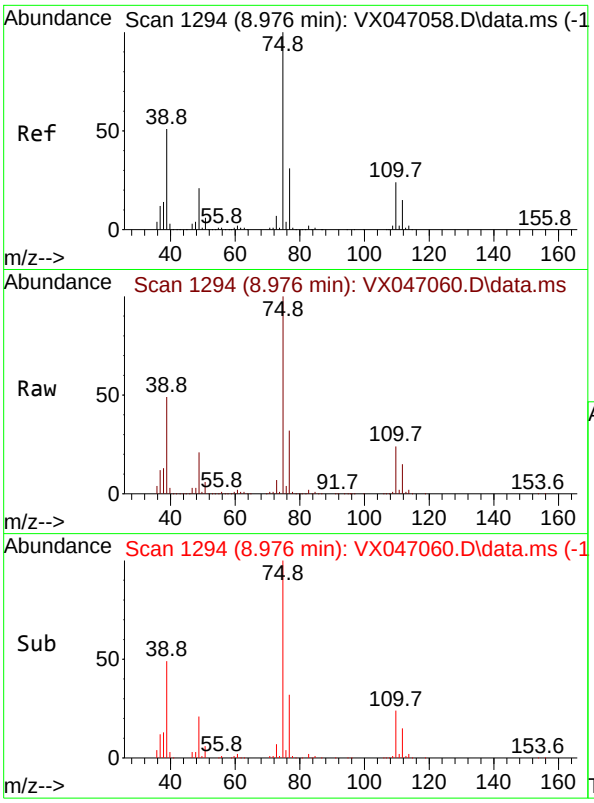


#52
Toluene
Concen: 145.703 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 92 Resp: 1298426

Ion	Ratio	Lower	Upper
92	100		
91	169.8	137.9	206.9



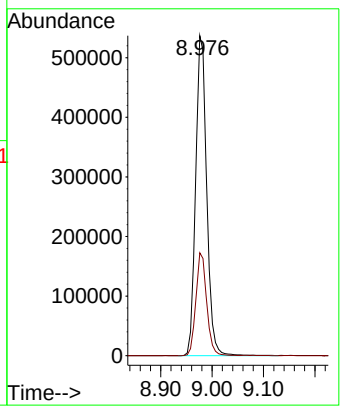


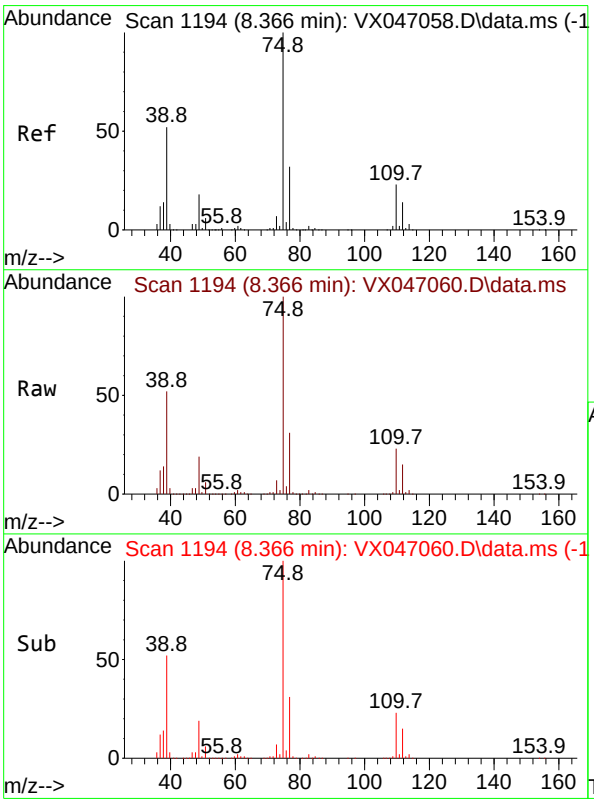
#53
t-1,3-Dichloropropene
Concen: 156.884 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 802670

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.5	36.7

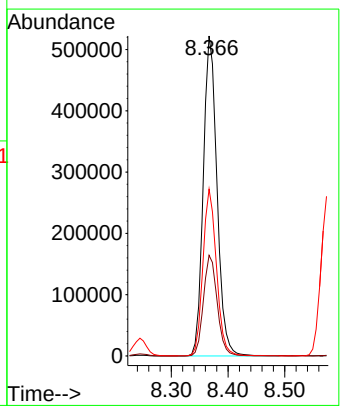


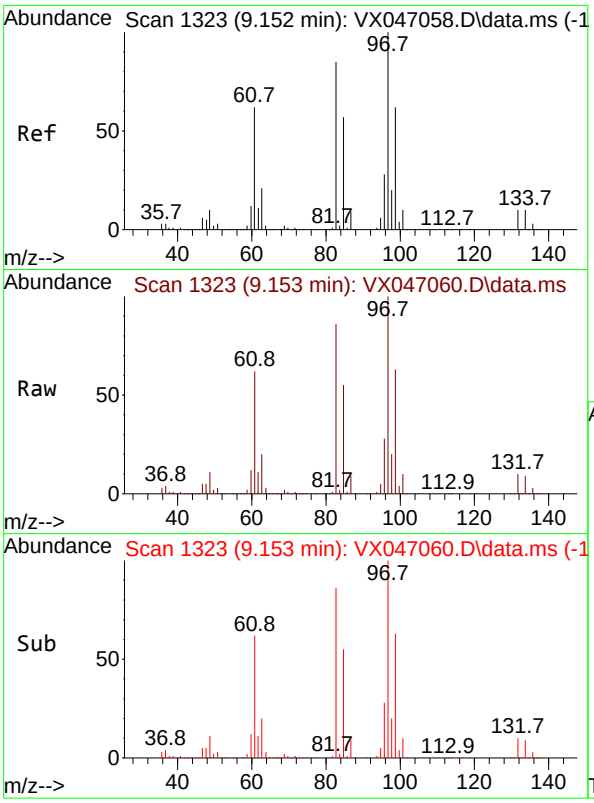


#54
cis-1,3-Dichloropropene
Concen: 156.442 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 75 Resp: 876033

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	52.1	41.8	62.6



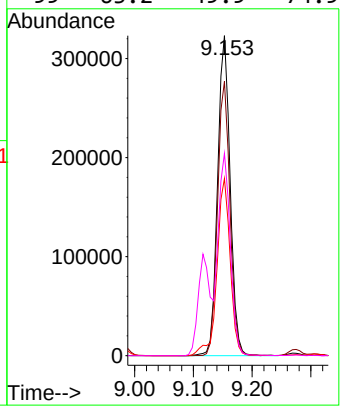


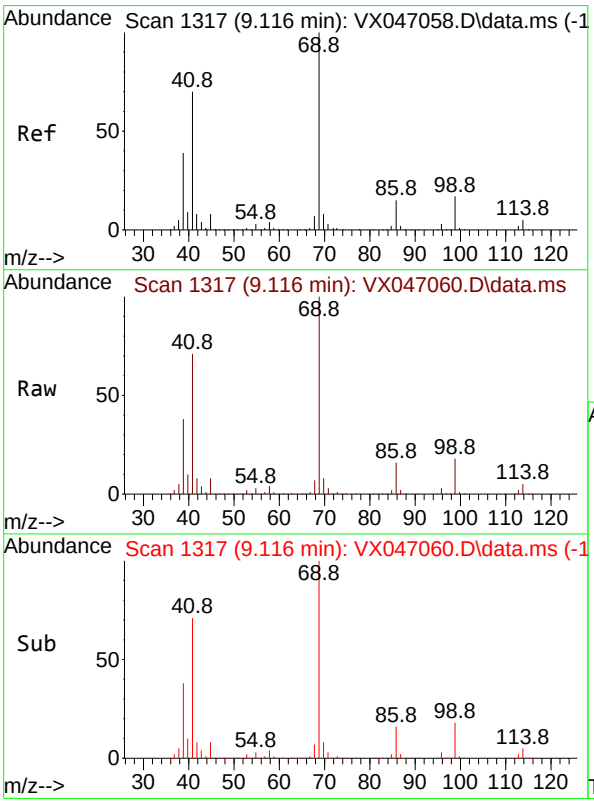
#55
1,1,2-Trichloroethane
Concen: 143.101 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 478247

Ion	Ratio	Lower	Upper
97	100		
83	85.7	68.0	102.0
85	55.4	45.2	67.8
99	63.2	49.9	74.9

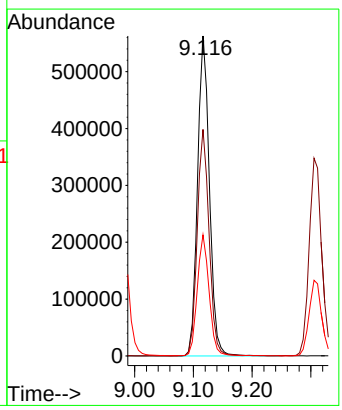


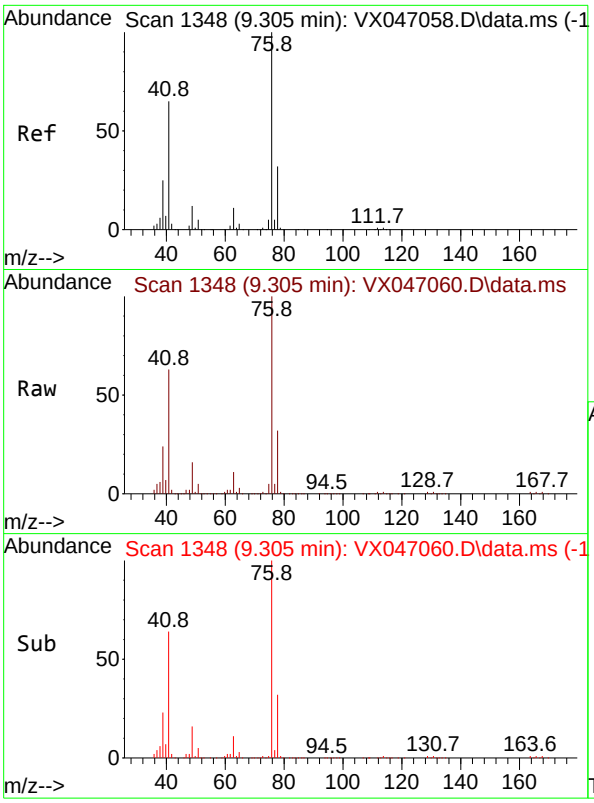


#56
Ethyl methacrylate
Concen: 160.053 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 69 Resp: 791875

Ion	Ratio	Lower	Upper
69	100		
41	70.6	56.1	84.1
39	37.6	31.1	46.7



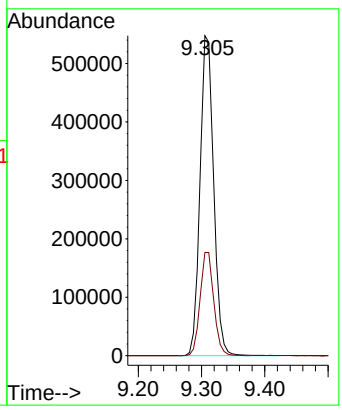


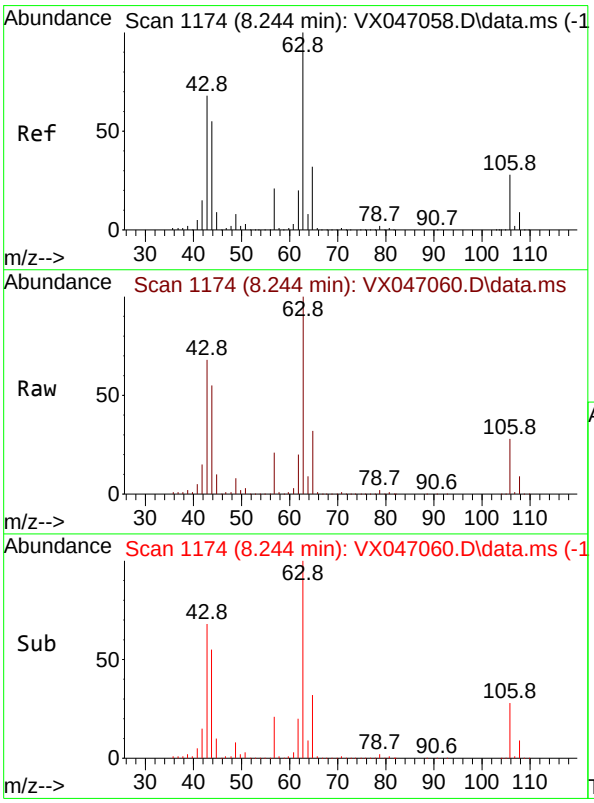
#57
1,3-Dichloropropane
Concen: 141.802 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 823631

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.5	38.3

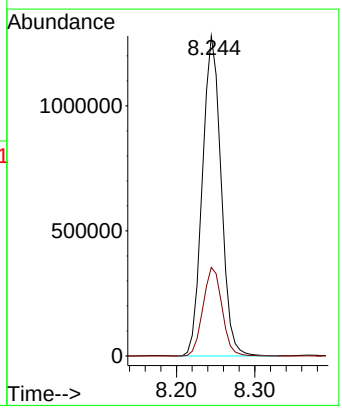


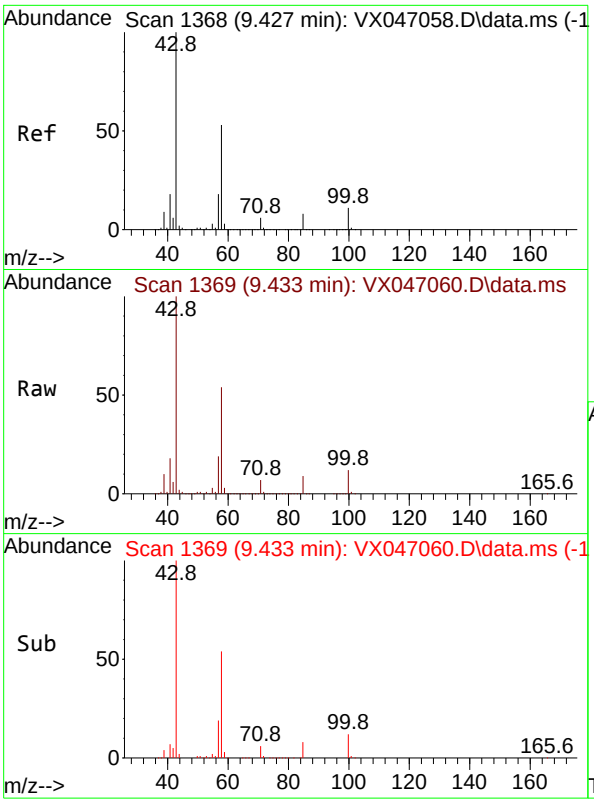


#58
2-Chloroethyl Vinyl ether
Concen: 770.350 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 63 Resp: 2120903

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.2	33.4



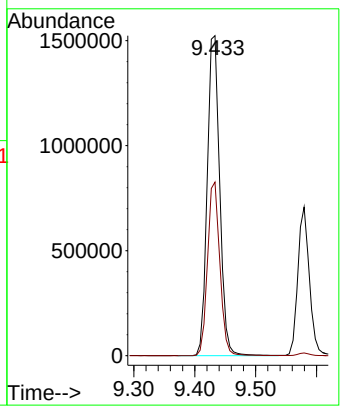


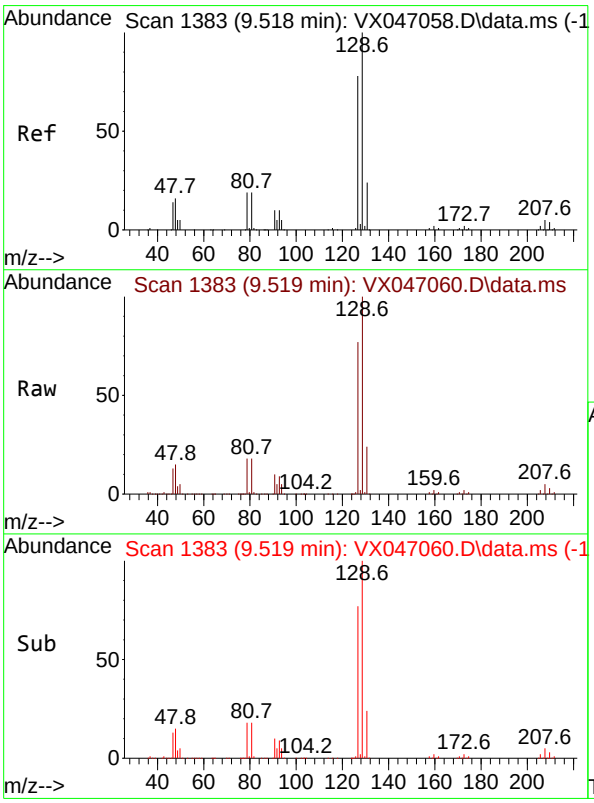
#59
2-Hexanone
Concen: 769.096 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 2172764

Ion	Ratio	Lower	Upper
43	100		
58	53.5	26.5	79.5

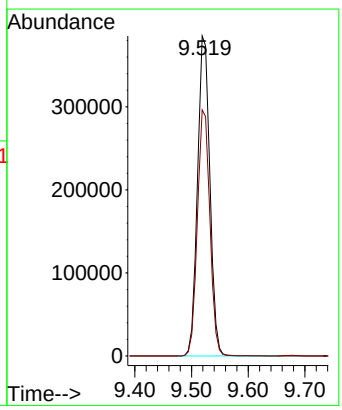


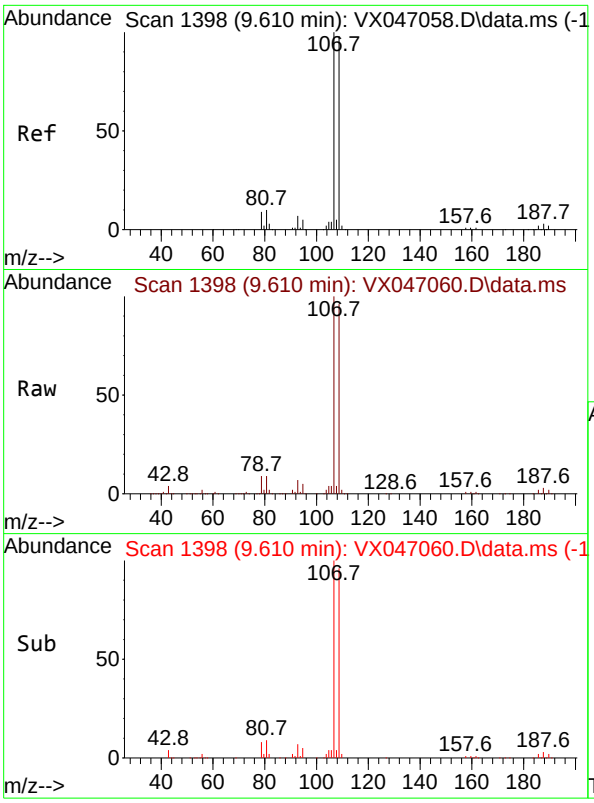


#60
Dibromochloromethane
Concen: 148.786 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:129 Resp: 583183

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.6	115.8



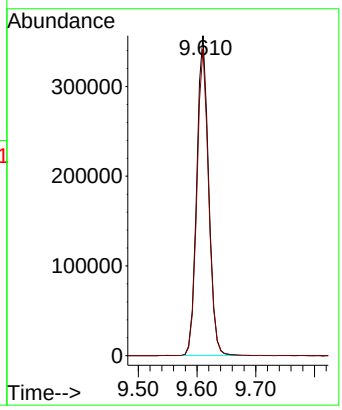


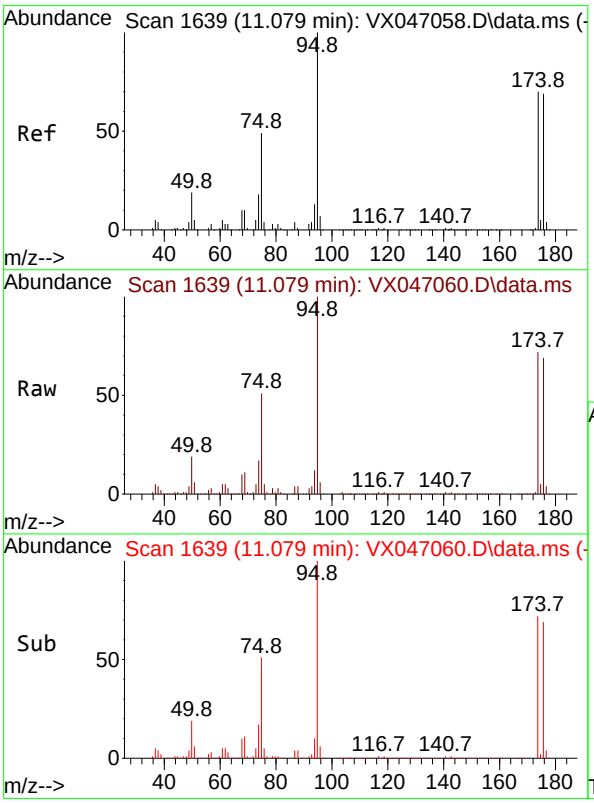
#61
1,2-Dibromoethane
Concen: 143.366 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 500995

Ion	Ratio	Lower	Upper
107	100		
109	94.7	74.6	112.0

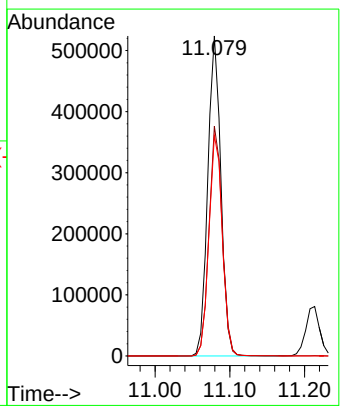


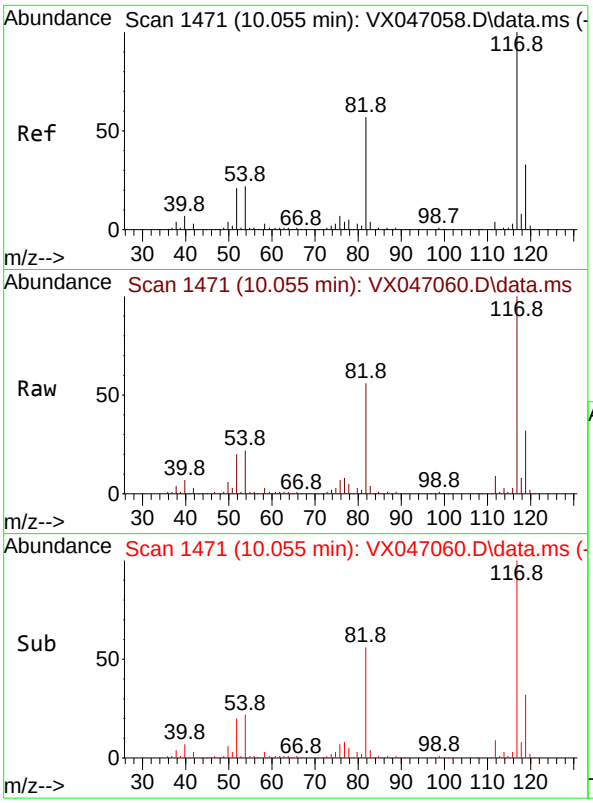


#62
4-Bromofluorobenzene
Concen: 154.987 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 95 Resp: 635473

Ion	Ratio	Lower	Upper
95	100		
174	72.8	0.0	144.6
176	70.6	0.0	139.6



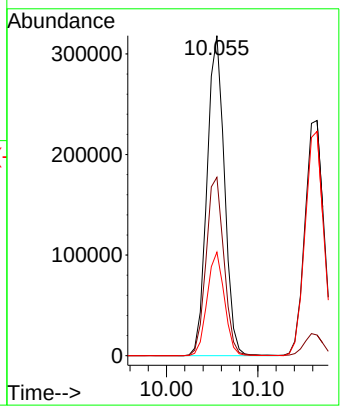


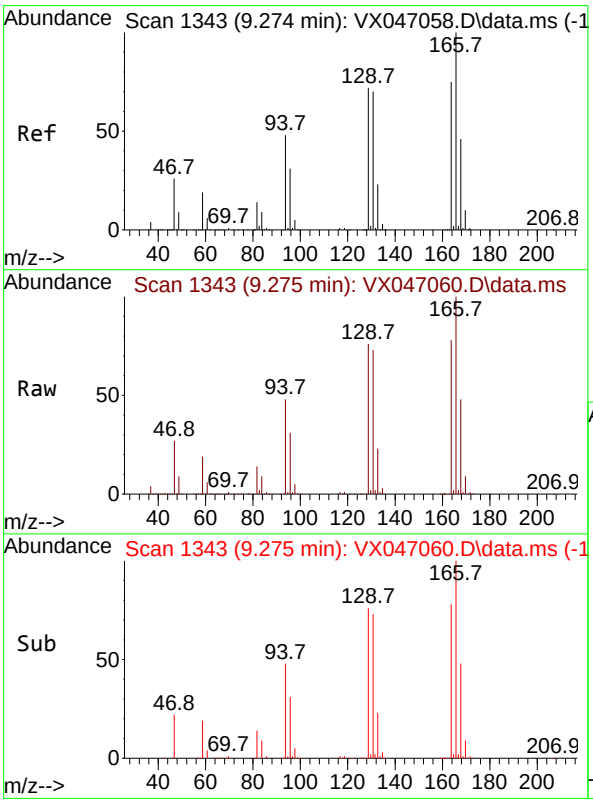
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 420817

Ion	Ratio	Lower	Upper
117	100		
82	55.7	45.4	68.2
119	32.3	26.1	39.1

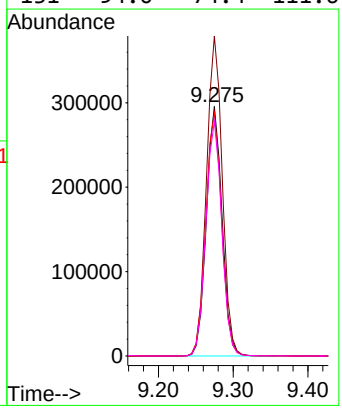


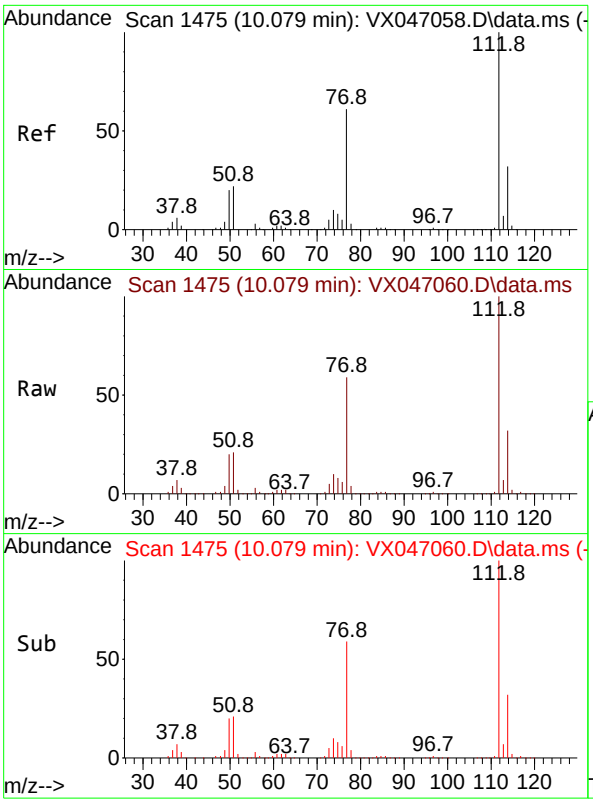


#64
Tetrachloroethene
Concen: 142.999 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:164 Resp: 433805

Ion	Ratio	Lower	Upper
164	100		
166	128.3	106.2	159.4
129	97.6	76.6	114.8
131	94.0	74.4	111.6



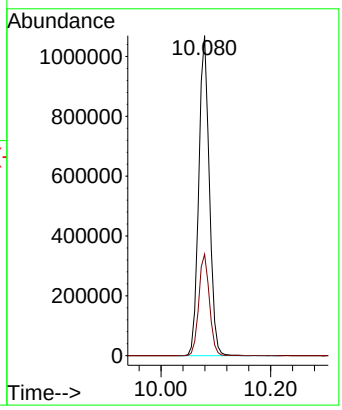


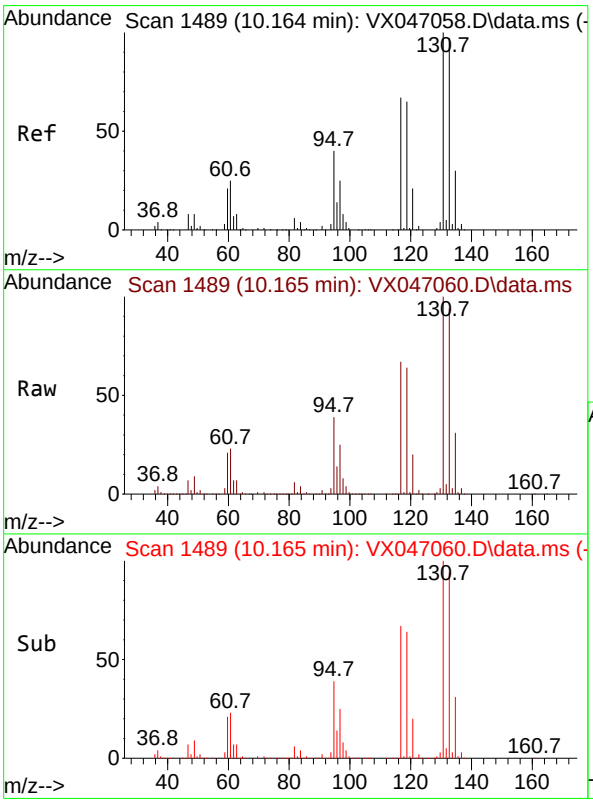
#65
Chlorobenzene
Concen: 145.306 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 1432482

Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.8	38.6

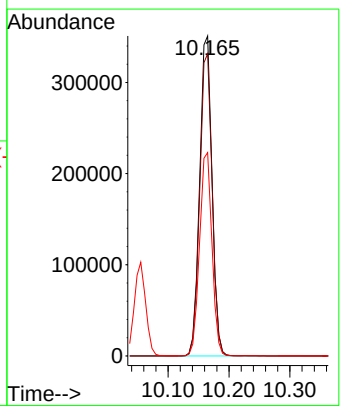


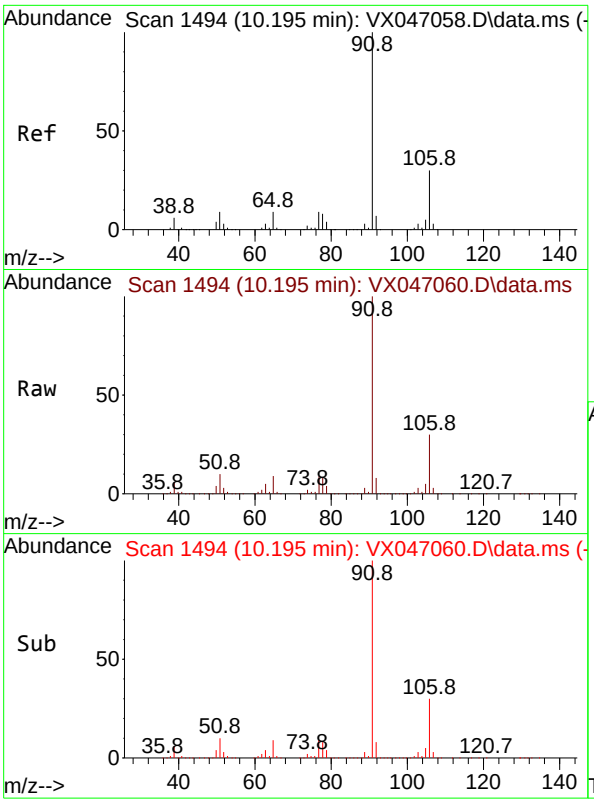


#66
1,1,1,2-Tetrachloroethane
Concen: 149.242 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:131 Resp: 495347

Ion	Ratio	Lower	Upper
131	100		
133	94.9	48.4	145.3
119	63.9	32.4	97.0



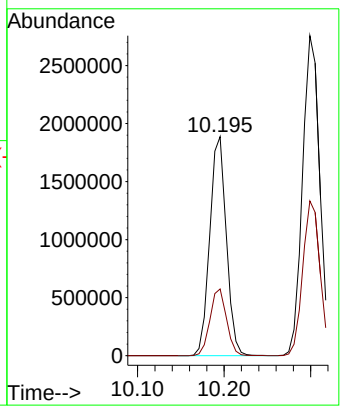


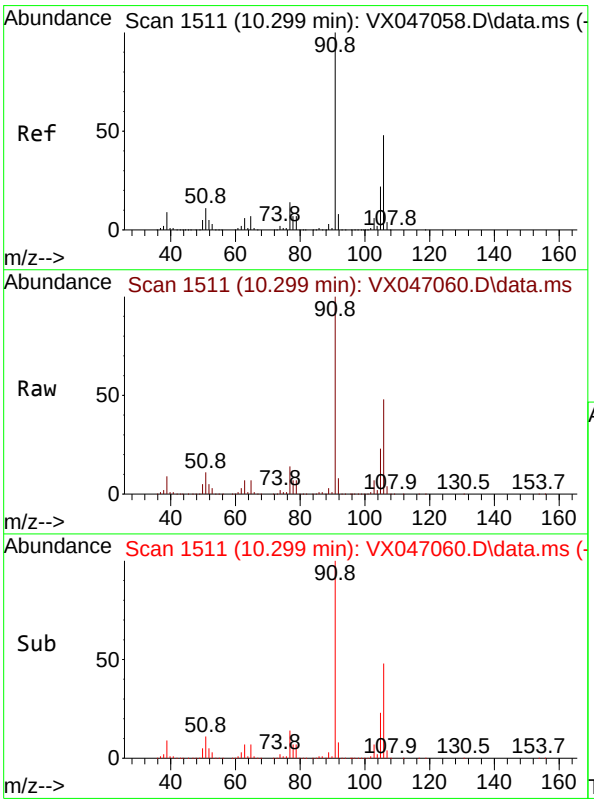
#67
Ethyl Benzene
Concen: 145.559 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 2508990

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.2	36.4

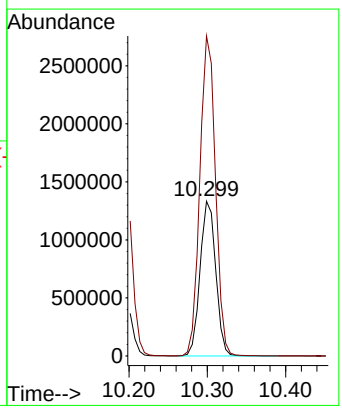


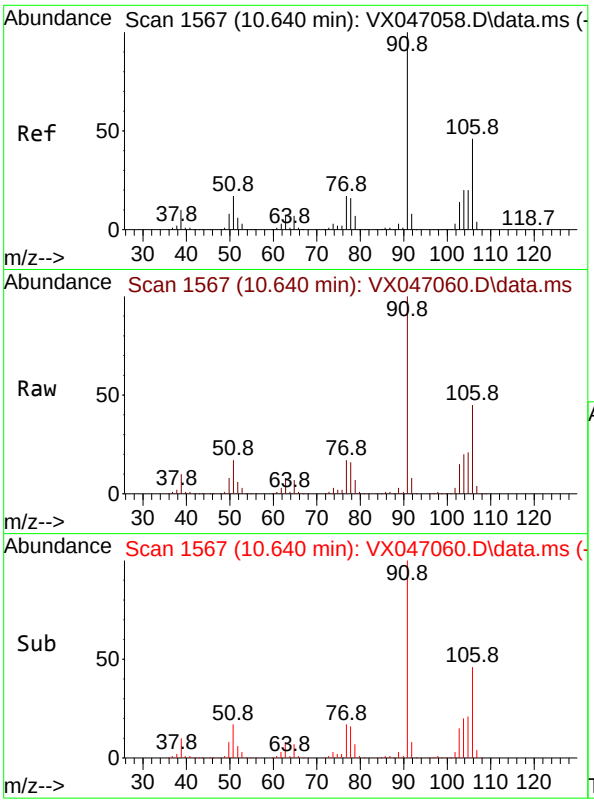


#68
m/p-Xylenes
Concen: 286.495 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:106 Resp: 1848008

Ion	Ratio	Lower	Upper
106	100		
91	206.7	167.4	251.0



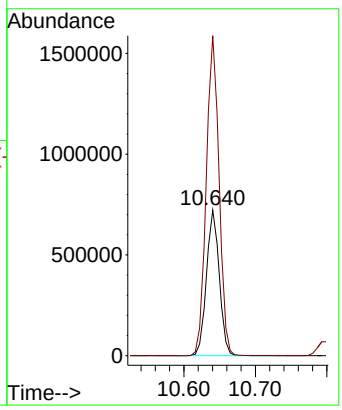


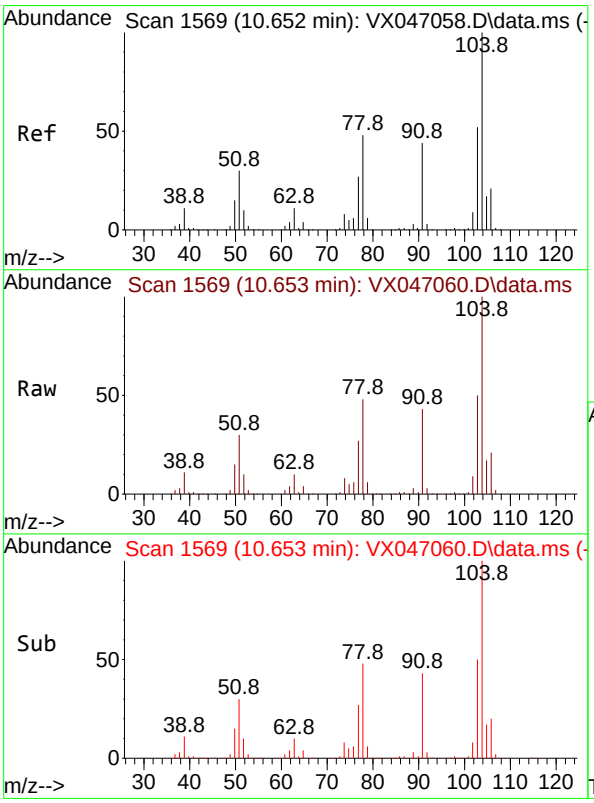
#69
o-Xylene
Concen: 146.292 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 897705

Ion	Ratio	Lower	Upper
106	100		
91	220.4	110.3	331.0

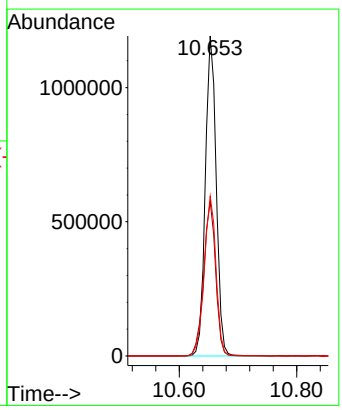


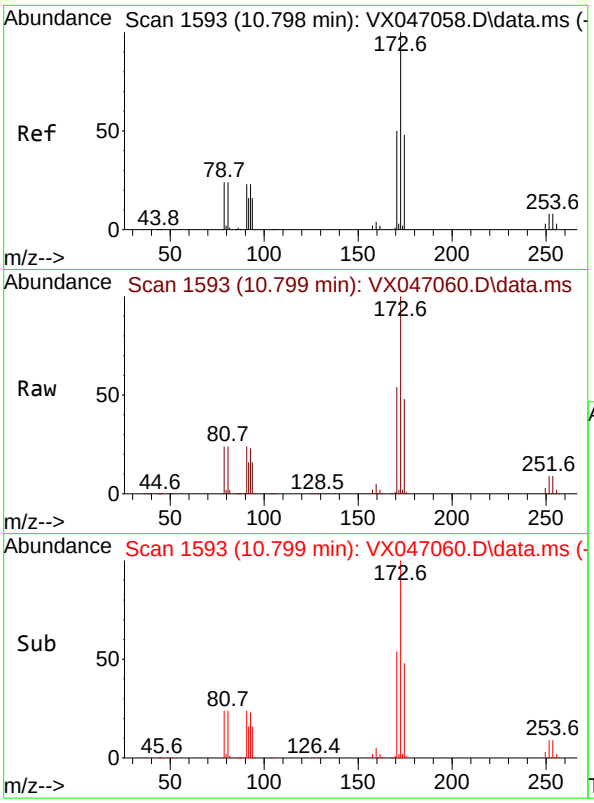


#70
Styrene
Concen: 146.214 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:104 Resp: 1538516

Ion	Ratio	Lower	Upper
104	100		
78	53.1	42.0	63.0
103	54.3	43.8	65.6



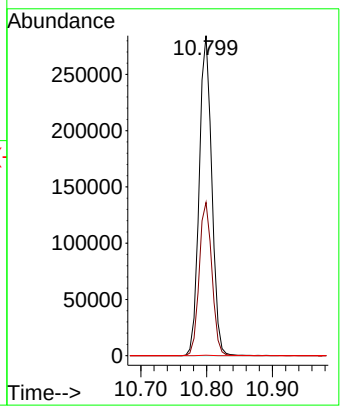


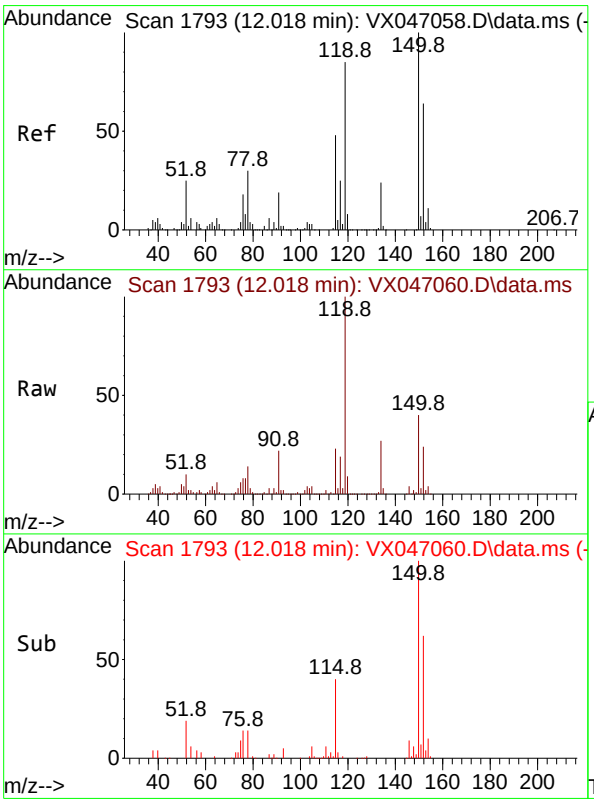
#71
Bromoform
Concen: 149.877 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 377881

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.2	72.6
254	0.1	0.1	0.1#

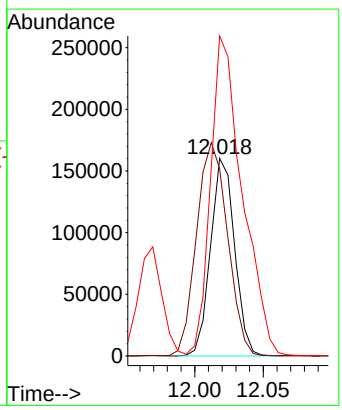


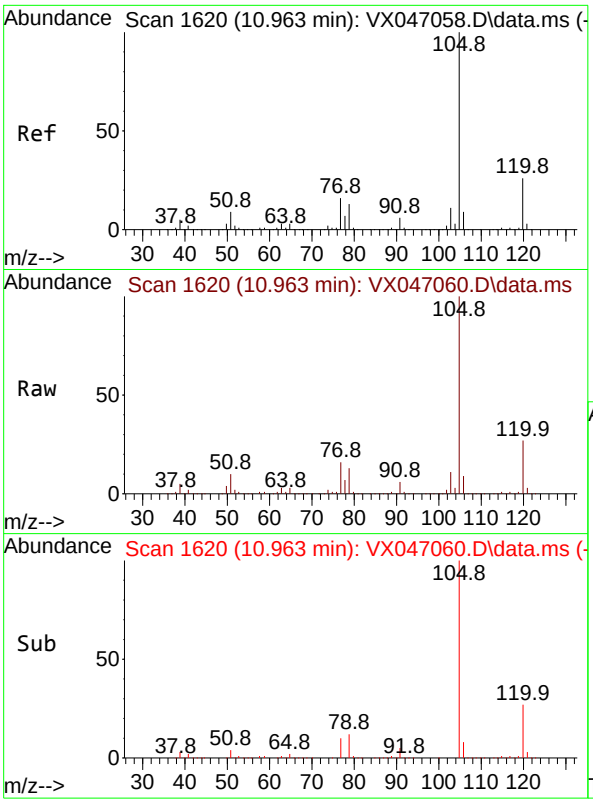


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:152 Resp: 196123

Ion	Ratio	Lower	Upper
152	100		
115	139.4	45.6	136.7#
150	213.4	0.0	354.6



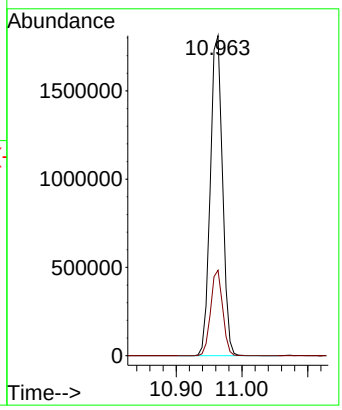


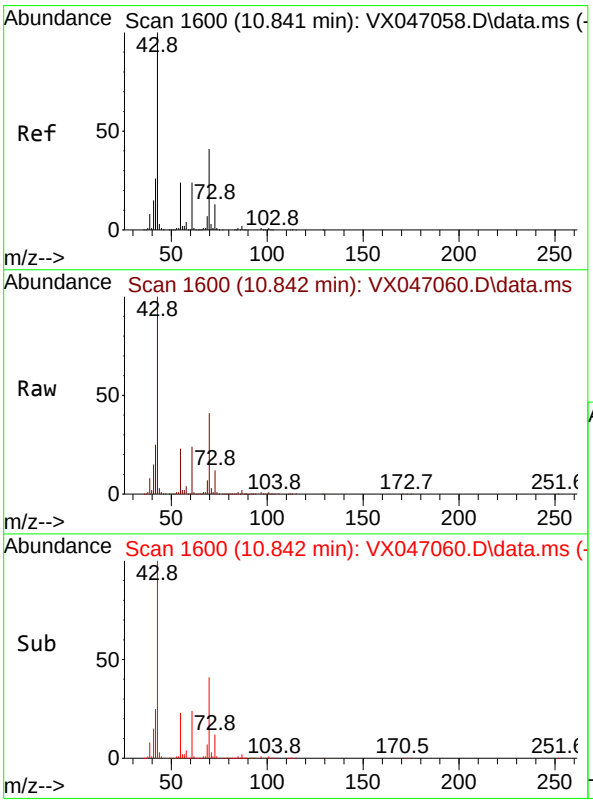
#73
Isopropylbenzene
Concen: 151.299 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 2341028

Ion	Ratio	Lower	Upper
105	100		
120	26.3	12.9	38.7

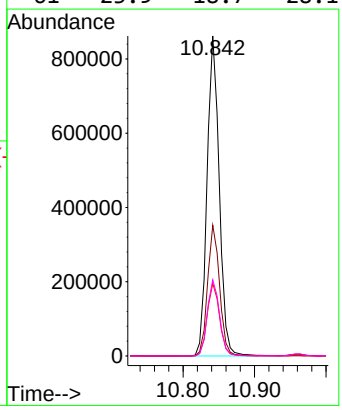


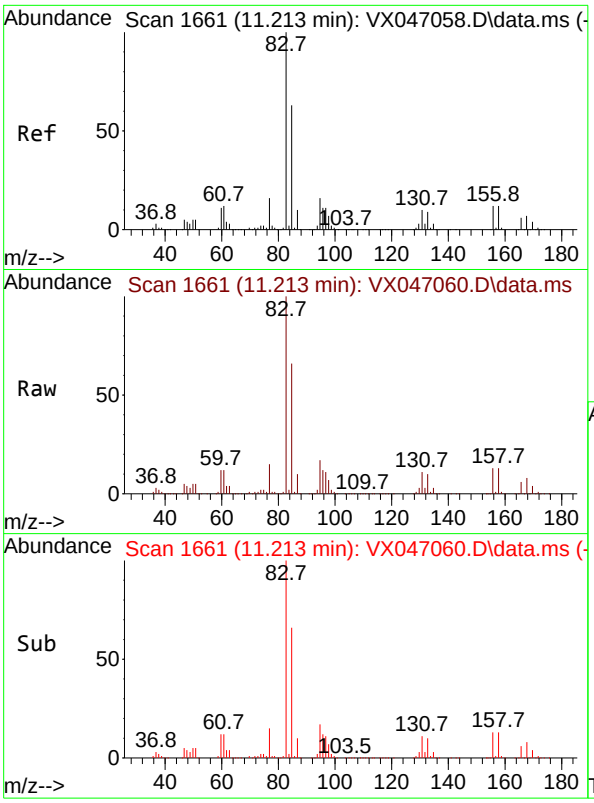


#74
N-amyl acetate
Concen: 164.856 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 43 Resp: 1017450

Ion	Ratio	Lower	Upper
43	100		
70	40.3	32.3	48.5
55	23.1	18.9	28.3
61	23.9	18.7	28.1



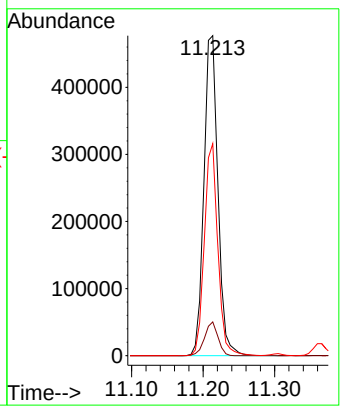


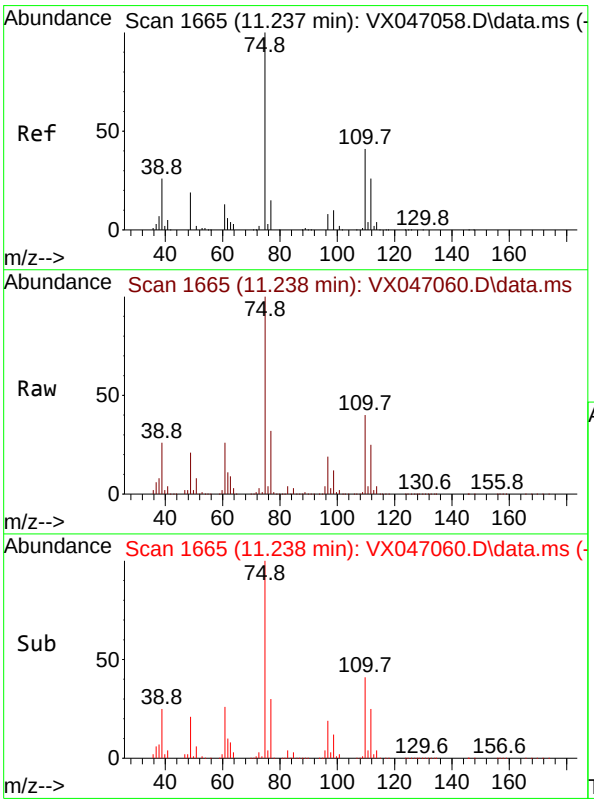
#75
1,1,2,2-Tetrachloroethane
Concen: 146.858 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 649081

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	63.9	32.0	96.2

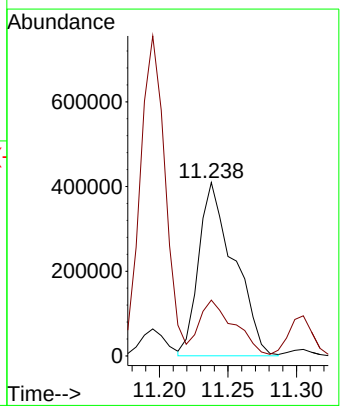


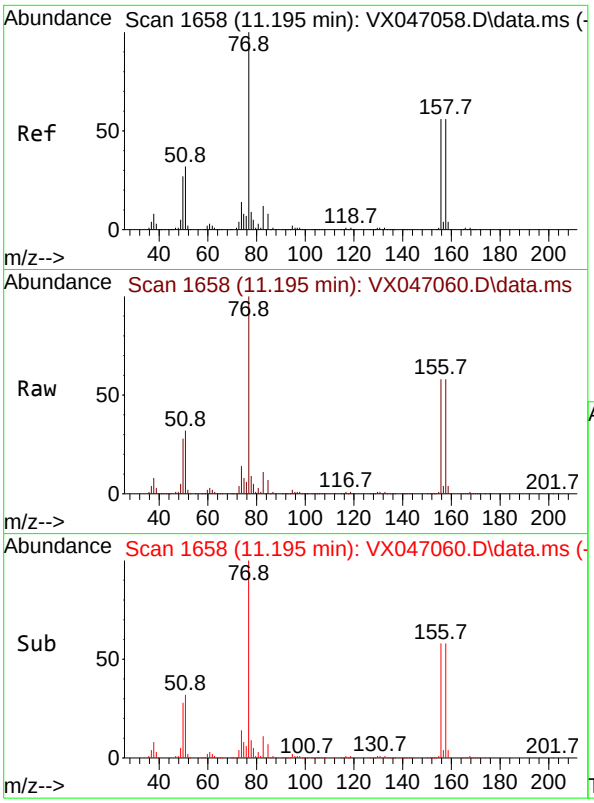


#76
1,2,3-Trichloropropane
Concen: 203.126 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 75 Resp: 737375

Ion	Ratio	Lower	Upper
75	100		
77	32.1	21.6	65.0



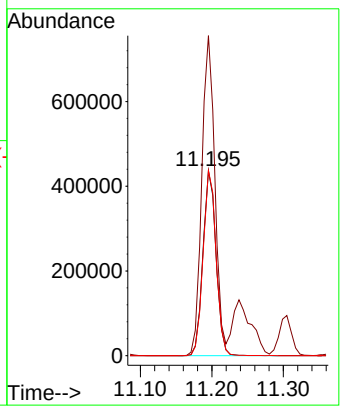


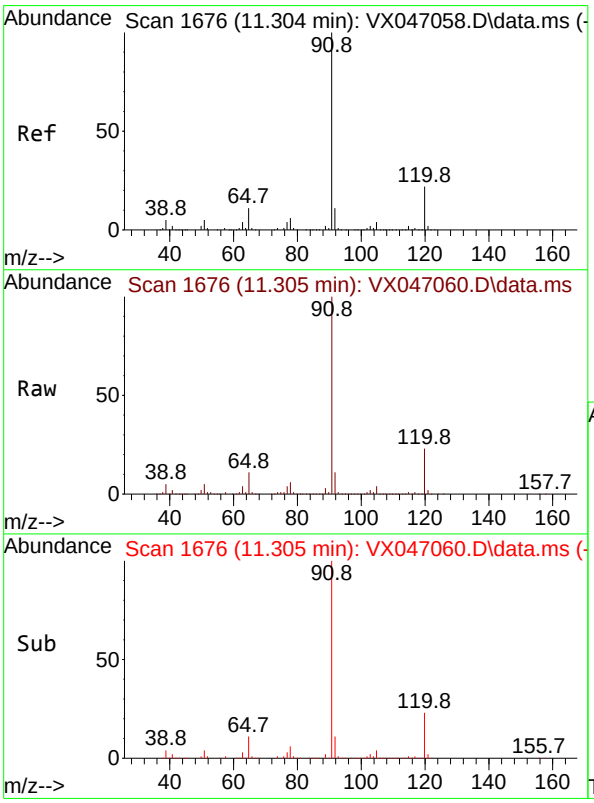
#77
Bromobenzene
Concen: 149.806 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 555966

Ion	Ratio	Lower	Upper
156	100		
77	172.6	87.3	261.9
158	99.3	48.9	146.6

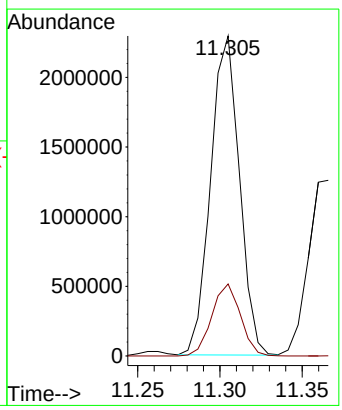


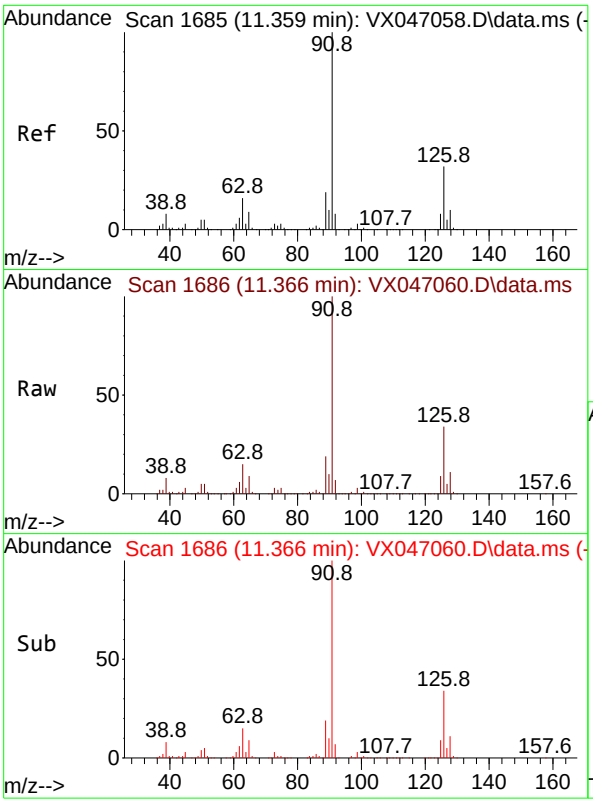


#78
n-propylbenzene
Concen: 150.924 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 91 Resp: 2790577

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.0	33.0



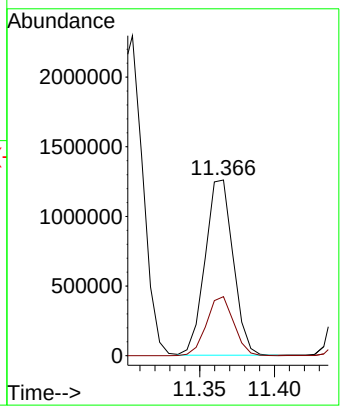


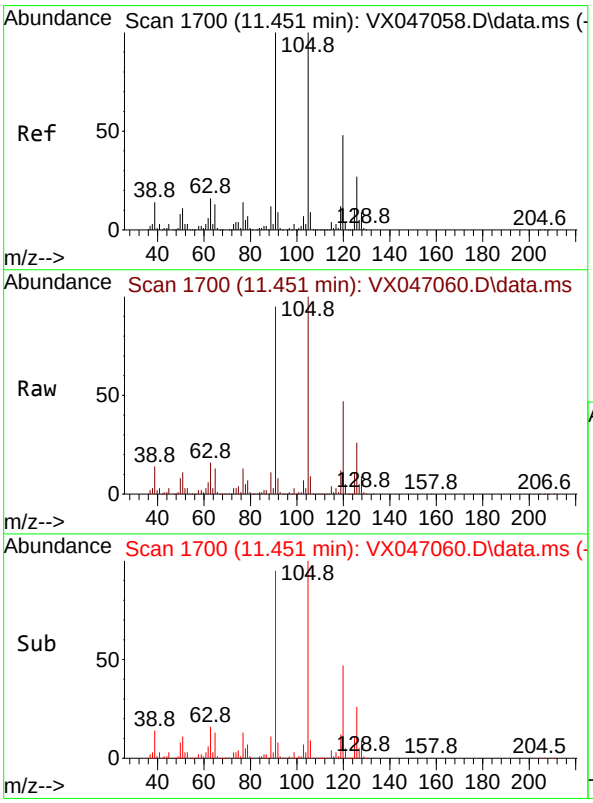
#79
2-Chlorotoluene
Concen: 148.487 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1641174

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.4	49.4

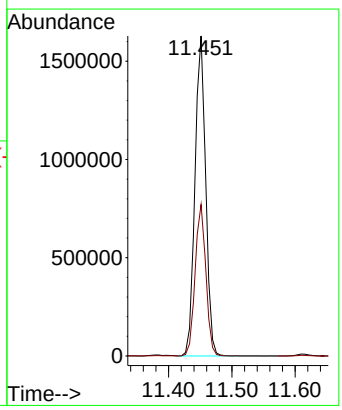


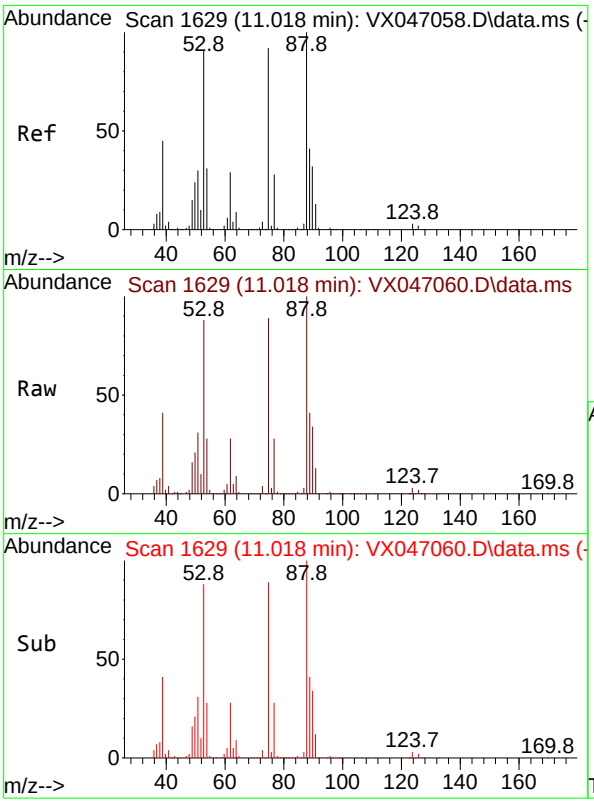


#80
1,3,5-Trimethylbenzene
Concen: 150.280 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:105 Resp: 1921023

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.8	71.5



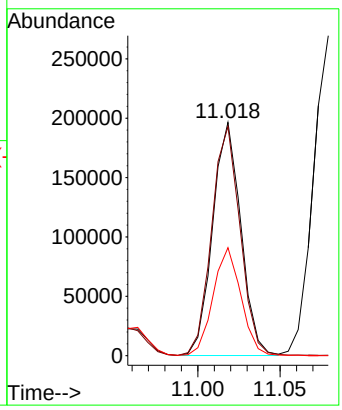


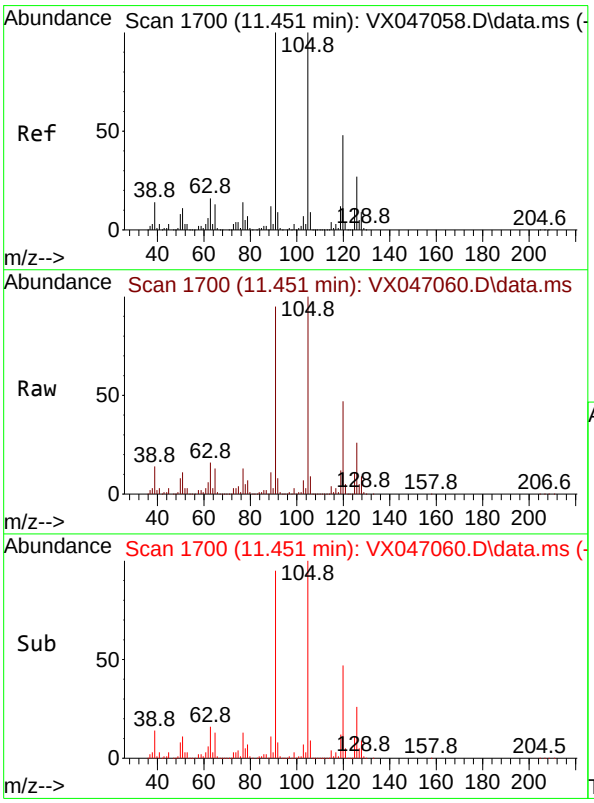
#81
trans-1,4-Dichloro-2-butene
Concen: 166.150 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 234105

Ion	Ratio	Lower	Upper
75	100		
53	99.1	84.2	126.4
89	45.9	36.0	54.0

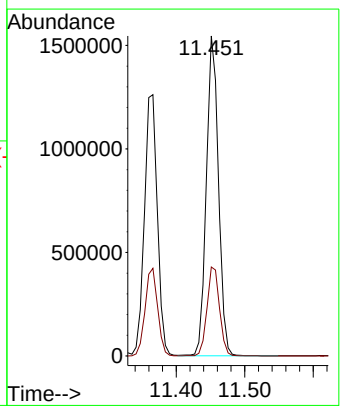


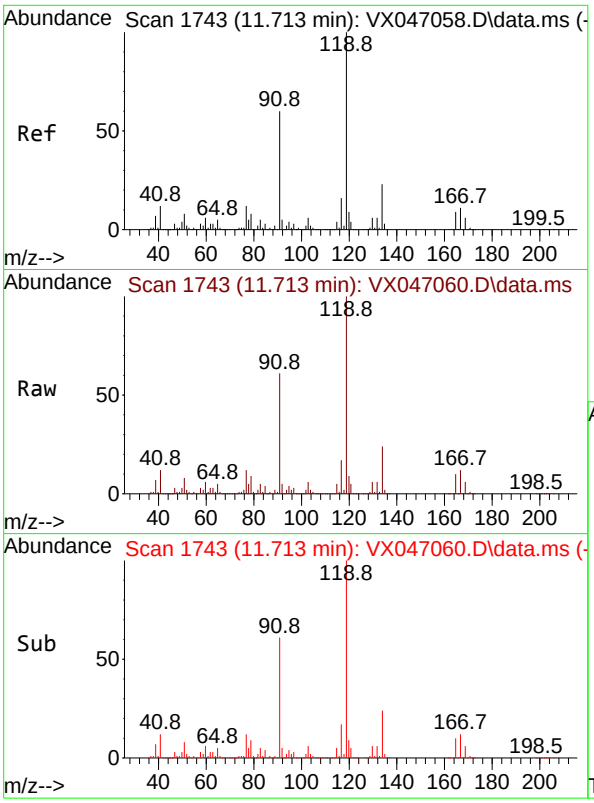


#82
4-Chlorotoluene
Concen: 147.381 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 91 Resp: 1901346

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.1	42.3



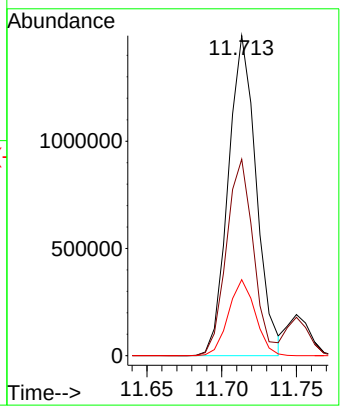


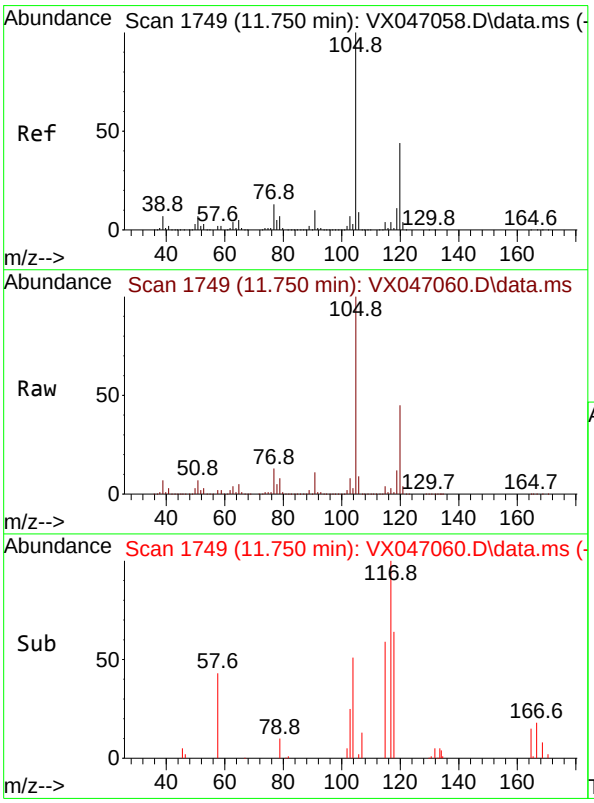
#83
tert-Butylbenzene
Concen: 151.288 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 1941048

Ion	Ratio	Lower	Upper
119	100		
91	59.8	29.6	88.8
134	22.8	11.4	34.1

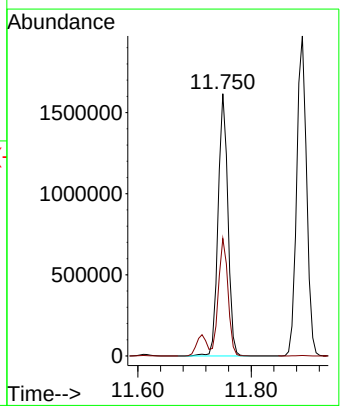


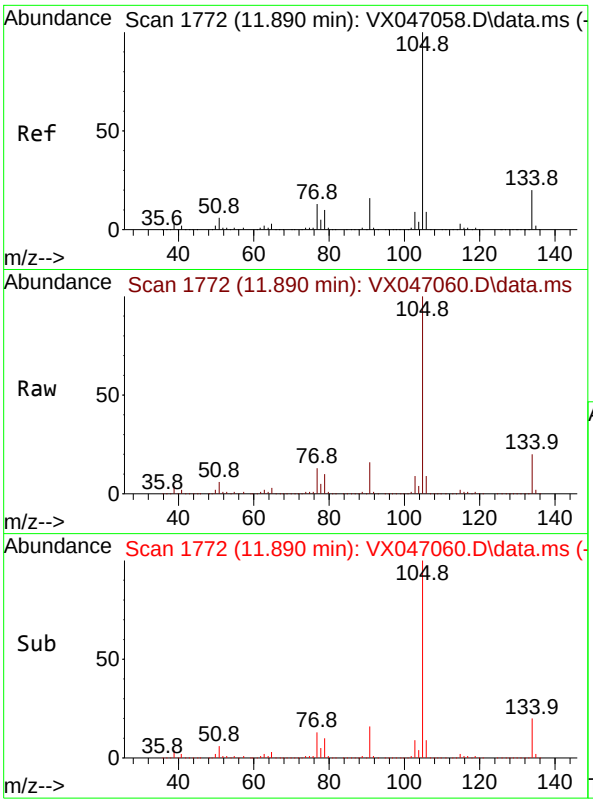


#84
1,2,4-Trimethylbenzene
Concen: 150.829 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:105 Resp: 1923088

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.0	66.0



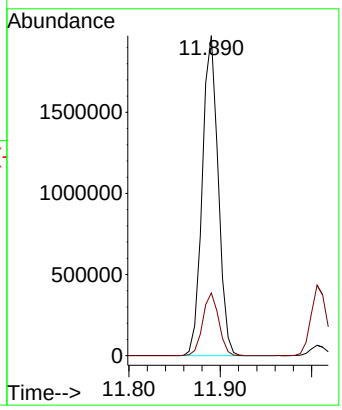


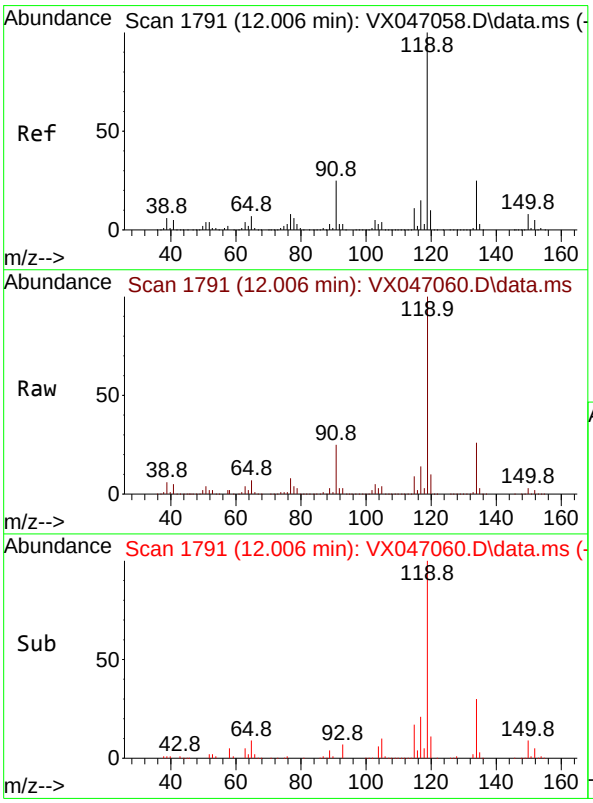
#85
sec-Butylbenzene
Concen: 148.873 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 2386553

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.9	29.7

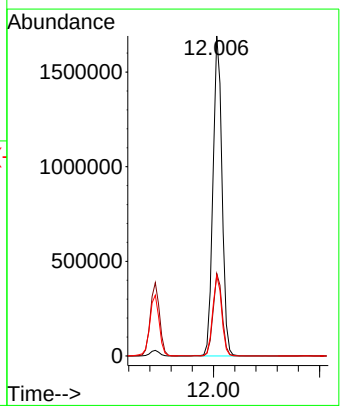


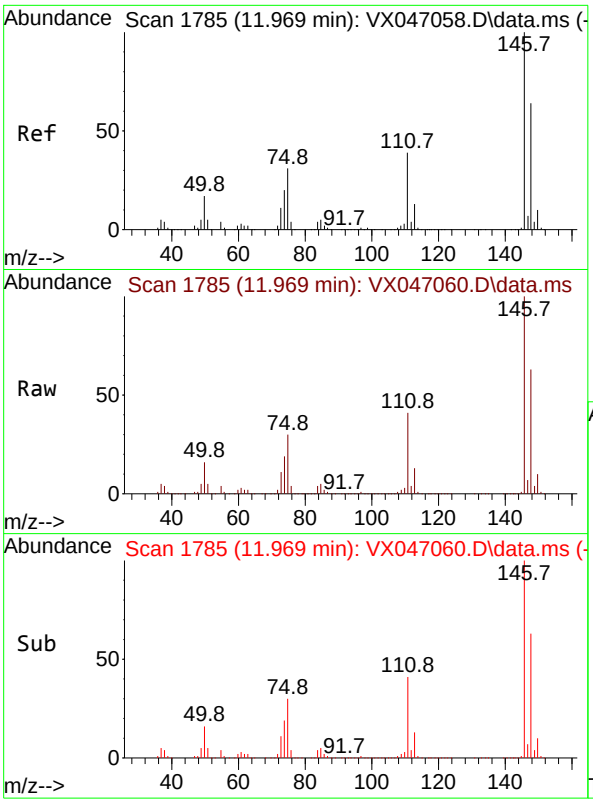


#86
p-Isopropyltoluene
Concen: 150.546 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:119 Resp: 2001346

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.8	38.4
91	25.0	12.4	37.4



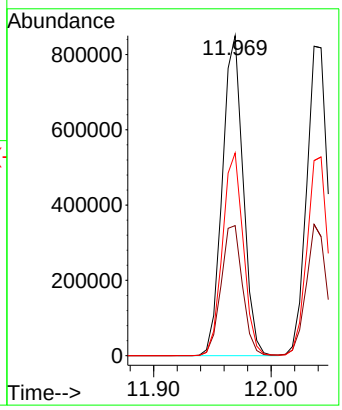


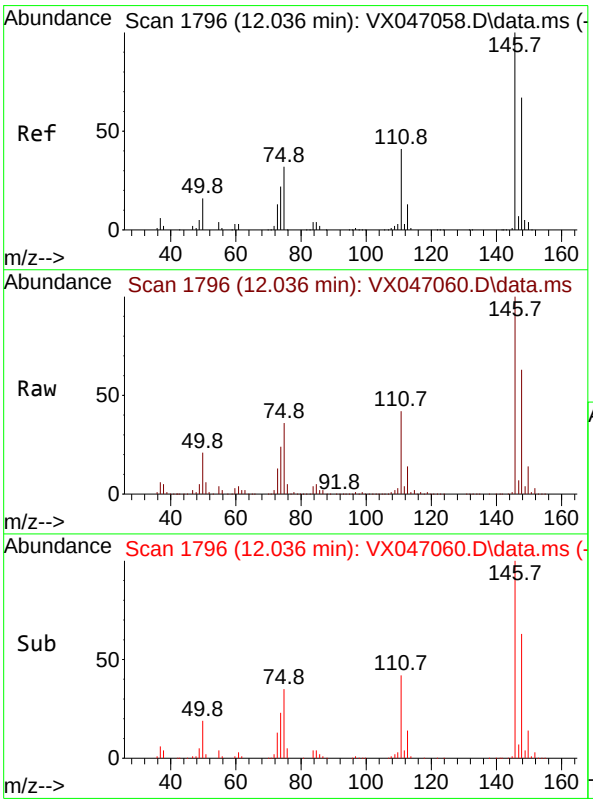
#87
1,3-Dichlorobenzene
Concen: 148.192 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 1044993

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.0	63.0
148	63.6	32.0	96.0

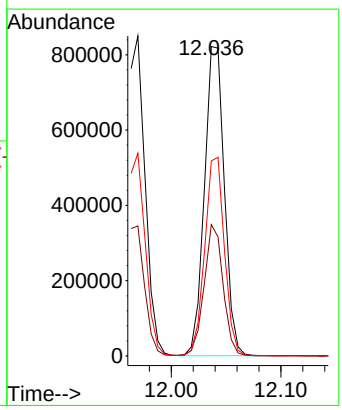


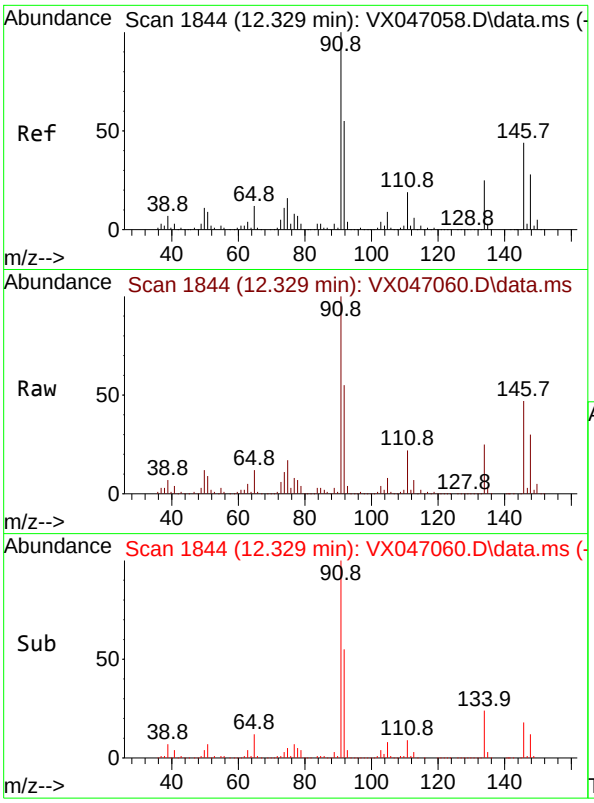


#88
1,4-Dichlorobenzene
Concen: 145.525 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:146 Resp: 1039670

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.6	61.9
148	63.7	33.0	98.9



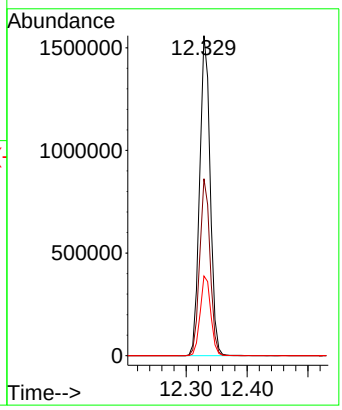


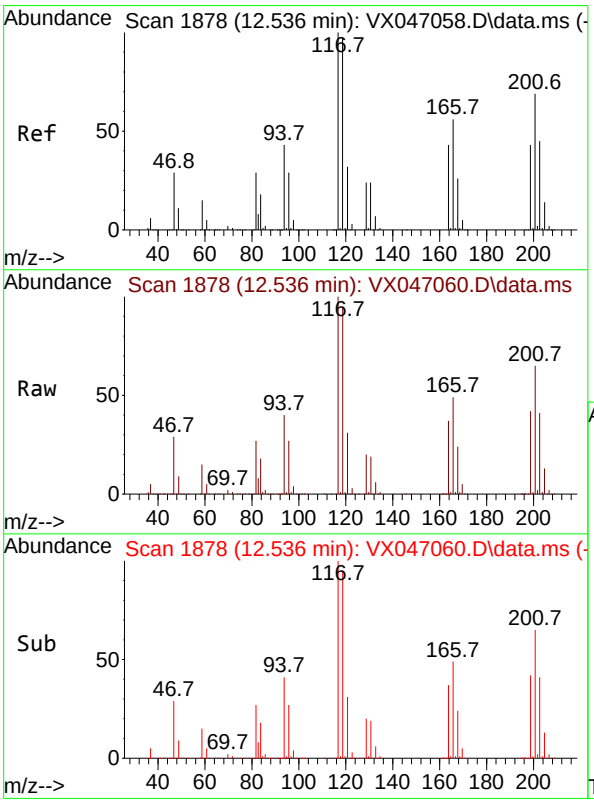
#89
n-Butylbenzene
Concen: 150.392 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1874924

Ion	Ratio	Lower	Upper
91	100		
92	54.7	27.5	82.5
134	25.2	12.8	38.3

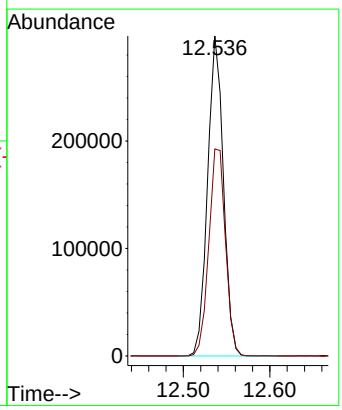


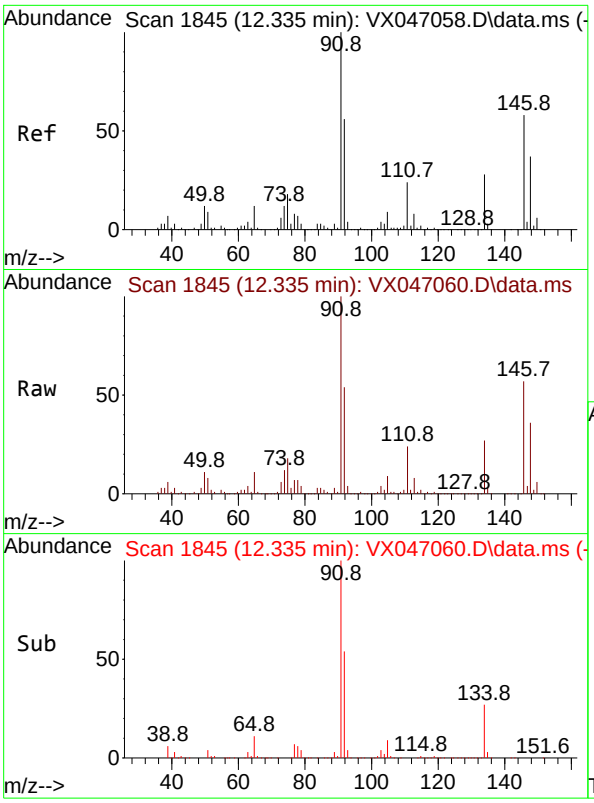


#90
Hexachloroethane
Concen: 158.429 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:117 Resp: 376780

Ion	Ratio	Lower	Upper
117	100		
201	68.5	34.8	104.5



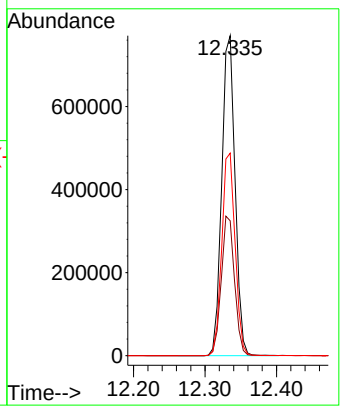


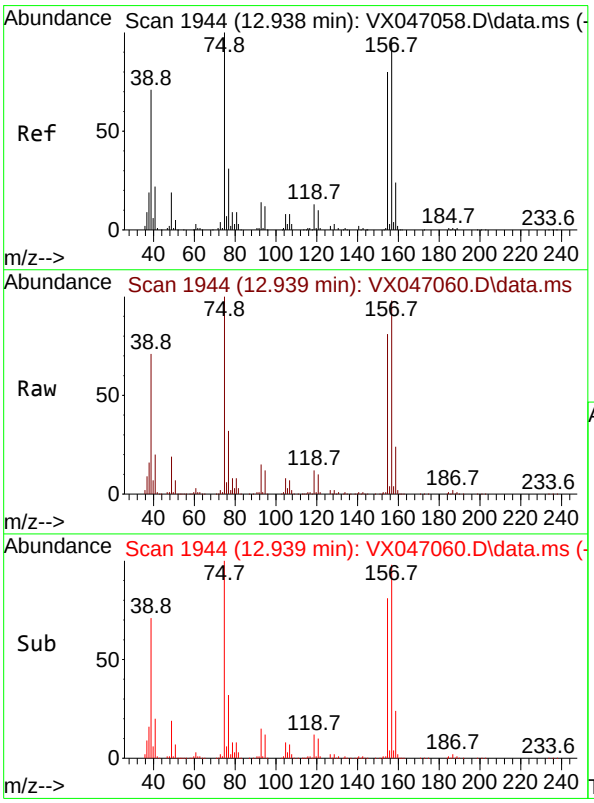
#91
1,2-Dichlorobenzene
Concen: 147.614 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 994860

Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.6	64.6
148	63.8	31.9	95.7

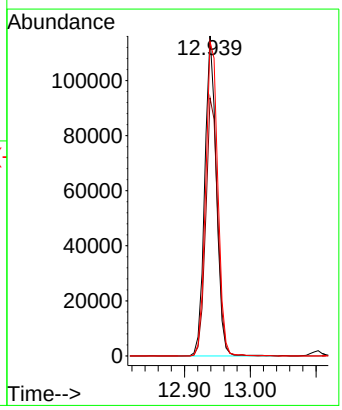


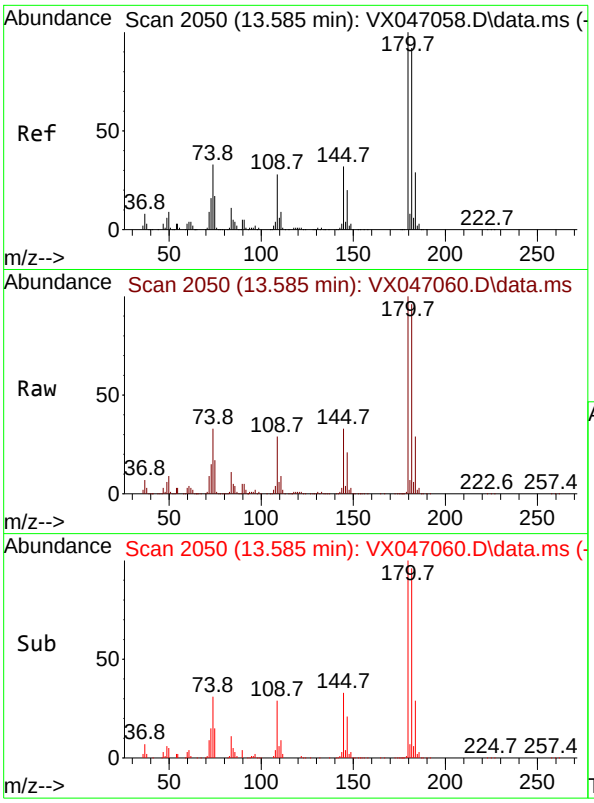


#92
1,2-Dibromo-3-Chloropropane
Concen: 167.843 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion: 75 Resp: 142395

Ion	Ratio	Lower	Upper
75	100		
155	83.1	41.3	124.1
157	103.2	52.8	158.3



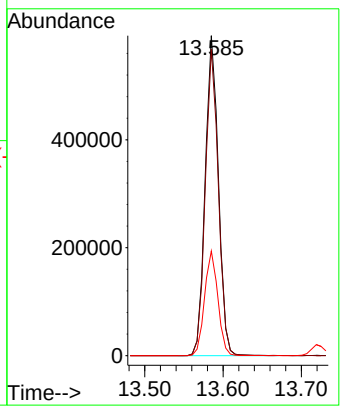


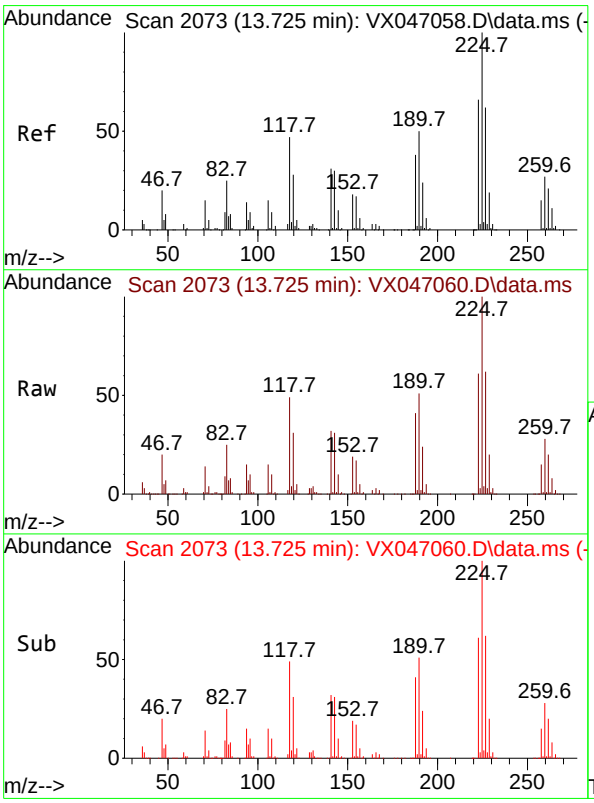
#93
1,2,4-Trichlorobenzene
Concen: 155.373 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 691853

Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.3	141.8
145	32.9	16.4	49.1

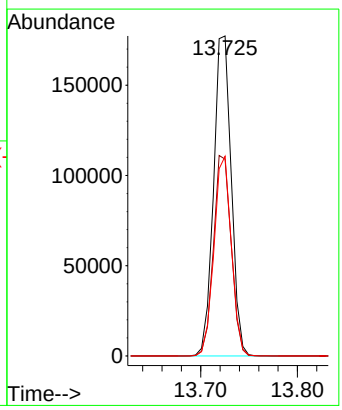


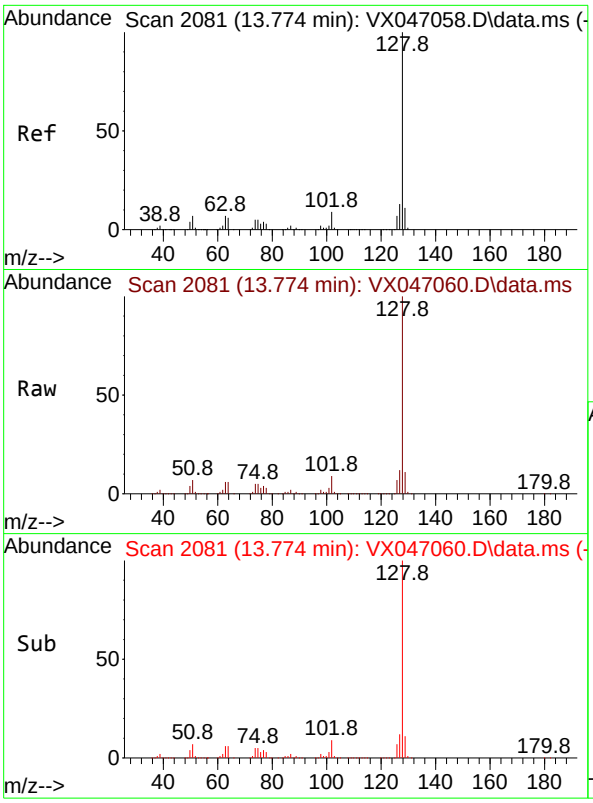


#94
Hexachlorobutadiene
Concen: 148.249 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:225 Resp: 224504

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.6	95.0
227	61.5	32.9	98.6



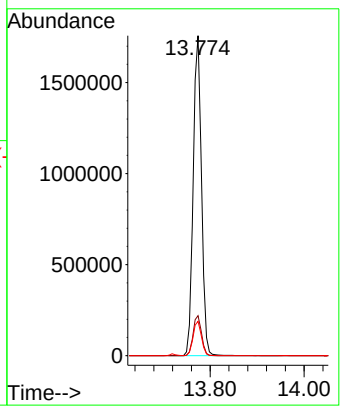


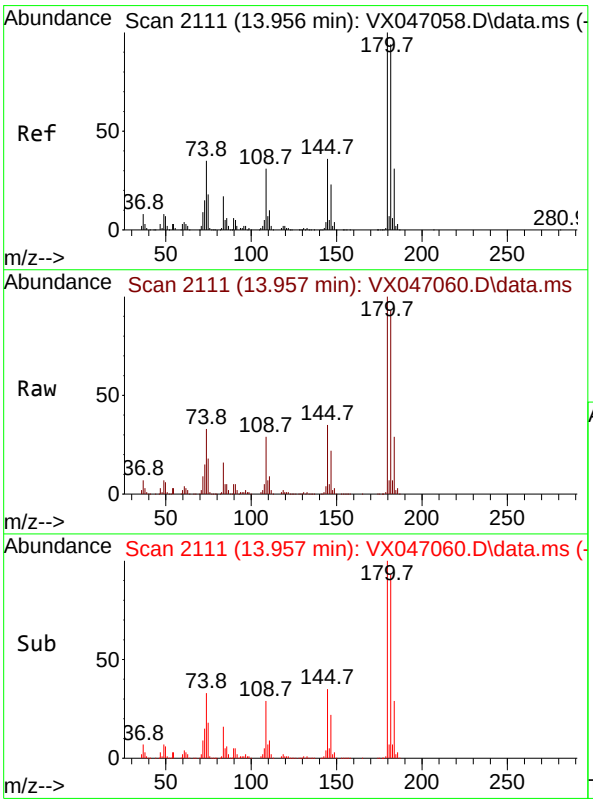
#95
Naphthalene
Concen: 166.363 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 2171681

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	10.8	8.6	13.0

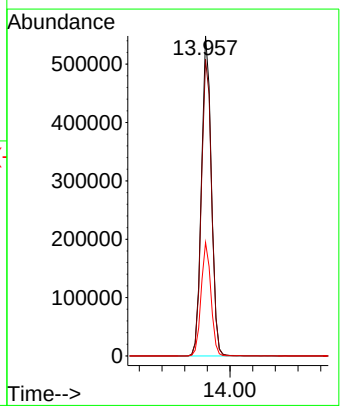




#96
1,2,3-Trichlorobenzene
Concen: 154.436 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047060.D
Acq: 21 Jul 2025 11:32

Tgt Ion:180 Resp: 662501

Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.9	140.6
145	35.0	17.3	52.0



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	353932	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	594788	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	516907	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	245093	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	176451	40.022	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	80.040%		
35) Dibromofluoromethane	5.385	113	155150	42.247	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	84.500%		
50) Toluene-d8	8.647	98	476939	40.102	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	80.200%#		
62) 4-Bromofluorobenzene	11.079	95	209003	40.779	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	81.560%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	240944	51.252	ug/l	99
3) Chloromethane	1.307	50	220344	47.383	ug/l	100
4) Vinyl Chloride	1.386	62	244133	48.838	ug/l	100
5) Bromomethane	1.618	94	153243	56.435	ug/l	97
6) Chloroethane	1.703	64	146679	44.676	ug/l	96
7) Trichlorofluoromethane	1.904	101	354446	47.552	ug/l	96
8) Diethyl Ether	2.142	74	122150	46.477	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.343	101	211536	47.104	ug/l	99
10) Methyl Iodide	2.465	142	206176	45.047	ug/l	97
11) Tert butyl alcohol	2.953	59	107694	207.194	ug/l	99
12) 1,1-Dichloroethene	2.331	96	207074	46.555	ug/l	98
13) Acrolein	2.245	56	197909	208.477	ug/l	99
14) Allyl chloride	2.678	41	375824	46.743	ug/l	99
15) Acrylonitrile	3.069	53	485401	230.845	ug/l	100
16) Acetone	2.386	43	407681	230.823	ug/l	95
17) Carbon Disulfide	2.526	76	588590	45.742	ug/l	99
18) Methyl Acetate	2.709	43	206733	44.045	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	613097	45.291	ug/l	98
20) Methylene Chloride	2.800	84	218853	45.041	ug/l	98
21) trans-1,2-Dichloroethene	3.099	96	210229	46.188	ug/l	98
22) Diisopropyl ether	3.764	45	712919	46.119	ug/l	96
23) Vinyl Acetate	3.727	43	2900485	233.940	ug/l	100
24) 1,1-Dichloroethane	3.617	63	388232	45.165	ug/l	100
25) 2-Butanone	4.556	43	562934	218.892	ug/l	100
26) 2,2-Dichloropropane	4.483	77	308018	46.290	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	242036	44.906	ug/l	99
28) Bromochloromethane	4.904	49	186533	47.168	ug/l	100
29) Tetrahydrofuran	5.001	42	360837	217.460	ug/l	99
30) Chloroform	5.093	83	382651	43.731	ug/l	100
31) Cyclohexane	5.477	56	359502	43.618	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	336918	44.331	ug/l	99
36) 1,1-Dichloropropene	5.696	75	272074	43.463	ug/l	99
37) Ethyl Acetate	4.715	43	244468	42.381	ug/l	99
38) Carbon Tetrachloride	5.678	117	295708	44.259	ug/l	98
39) Methylcyclohexane	7.379	83	344962	44.136	ug/l	99
40) Benzene	6.038	78	802625	44.304	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.916	41	138183	45.816 ug/l	97
42) 1,2-Dichloroethane	6.086	62	283205	44.378 ug/l	99
43) Isopropyl Acetate	6.336	43	409733	45.564 ug/l	99
44) Trichloroethene	7.123	130	202817	43.658 ug/l	98
45) 1,2-Dichloropropane	7.428	63	200065	44.093 ug/l	98
46) Dibromomethane	7.580	93	143569	45.121 ug/l	99
47) Bromodichloromethane	7.818	83	301133	44.463 ug/l	99
48) Methyl methacrylate	7.690	41	208228	42.505 ug/l	99
49) 1,4-Dioxane	7.653	88	50734	910.550 ug/l	99
51) 4-Methyl-2-Pentanone	8.568	43	1164013	217.774 ug/l	100
52) Toluene	8.714	92	498799	44.778 ug/l	97
53) t-1,3-Dichloropropene	8.976	75	290633	45.444 ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	322967	46.140 ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	180762	43.270 ug/l	99
56) Ethyl methacrylate	9.116	69	286552	46.334 ug/l	100
57) 1,3-Dichloropropane	9.305	76	314736	43.350 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	774980	225.188 ug/l	100
59) 2-Hexanone	9.427	43	807822	228.755 ug/l	100
60) Dibromochloromethane	9.519	129	216749	44.239 ug/l	100
61) 1,2-Dibromoethane	9.604	107	188713	43.202 ug/l	99
64) Tetrachloroethene	9.269	164	164447	44.131 ug/l	96
65) Chlorobenzene	10.073	112	536664	44.318 ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	181544	44.529 ug/l	99
67) Ethyl Benzene	10.189	91	952288	44.977 ug/l	100
68) m/p-Xylenes	10.299	106	709639	89.564 ug/l	100
69) o-Xylene	10.640	106	341662	45.328 ug/l	99
70) Styrene	10.653	104	589610	45.618 ug/l	100
71) Bromoform	10.799	173	136594	44.106 ug/l	100
73) Isopropylbenzene	10.957	105	903154	46.708 ug/l	100
74) N-amyl acetate	10.842	43	360744	46.238 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	248756	45.037 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	270356	59.595 ug/l	82
77) Bromobenzene	11.195	156	215391	46.441 ug/l	98
78) n-propylbenzene	11.299	91	1081658	46.812 ug/l	100
79) 2-Chlorotoluene	11.360	91	631252	45.702 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	737827	46.187 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.012	75	79906	45.380 ug/l	97
82) 4-Chlorotoluene	11.451	91	749299	46.476 ug/l	99
83) tert-Butylbenzene	11.713	119	752650	46.942 ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	744757	46.741 ug/l	99
85) sec-Butylbenzene	11.890	105	934198	46.632 ug/l	99
86) p-Isopropyltoluene	12.006	119	773508	46.560 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	400520	45.450 ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	398497	44.634 ug/l	98
89) n-Butylbenzene	12.329	91	735386	47.201 ug/l	99
90) Hexachloroethane	12.536	117	138697	46.667 ug/l	97
91) 1,2-Dichlorobenzene	12.329	146	373286	44.320 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	47608	44.904 ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	261487	46.990 ug/l	99
94) Hexachlorobutadiene	13.725	225	86113	45.502 ug/l	99
95) Naphthalene	13.774	128	755367	46.304 ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	241137	44.980 ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration

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

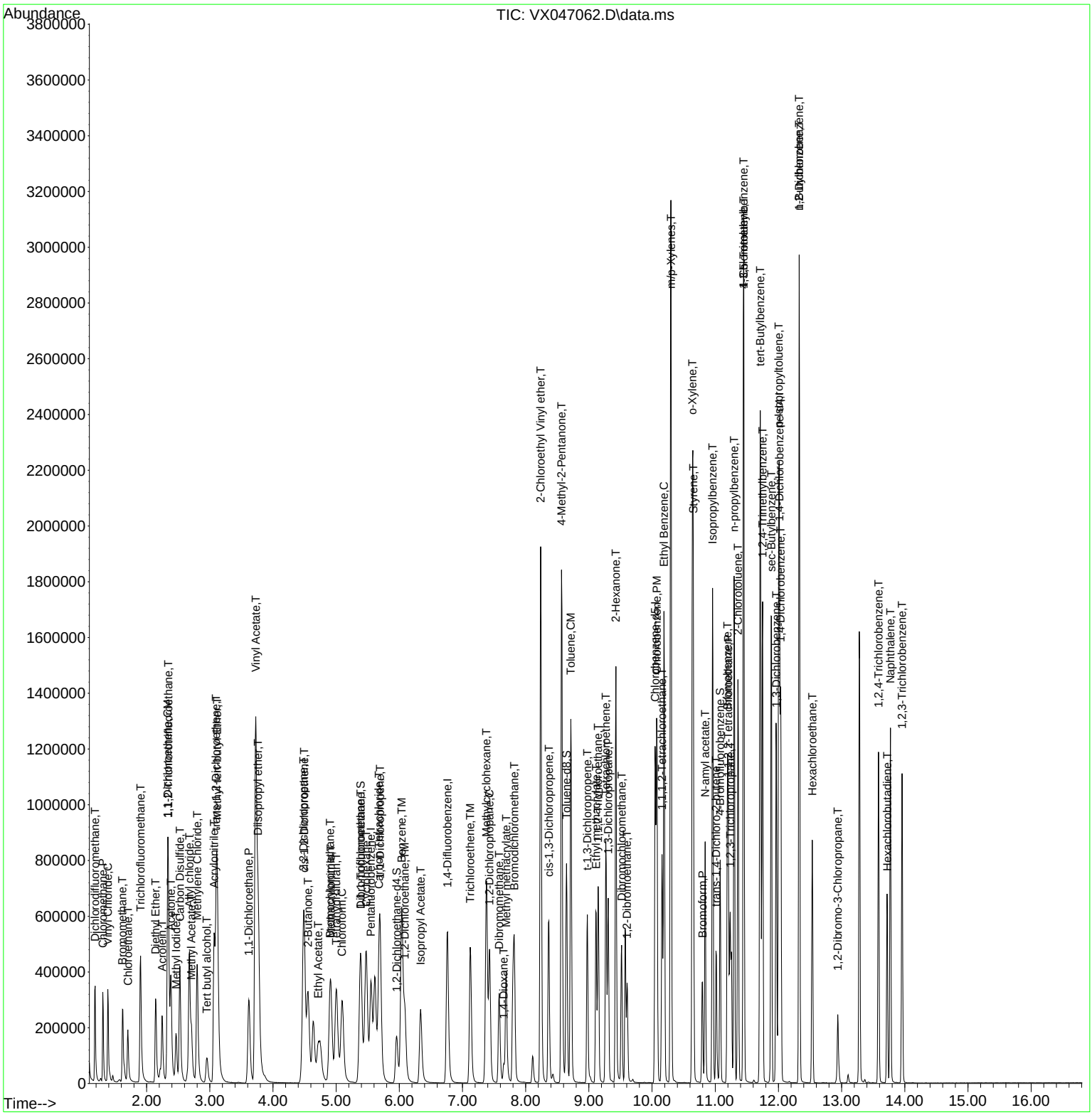
(#) = qualifier out of range (m) = manual integration (+) = signals summed

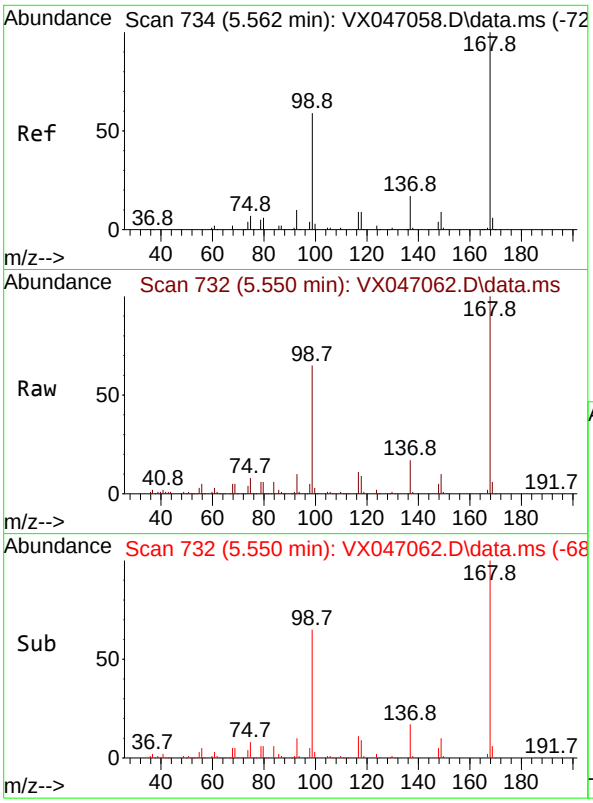
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072125\
Data File : VX047062.D
Acq On : 21 Jul 2025 13:17
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Quant Time: Jul 22 04:01:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:35:16 2025
Response via : Initial Calibration



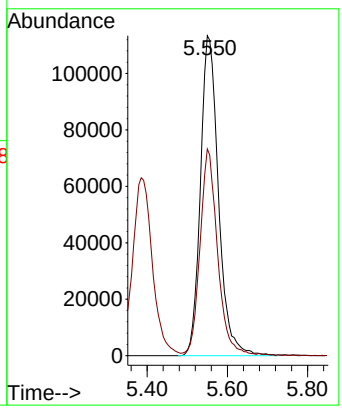


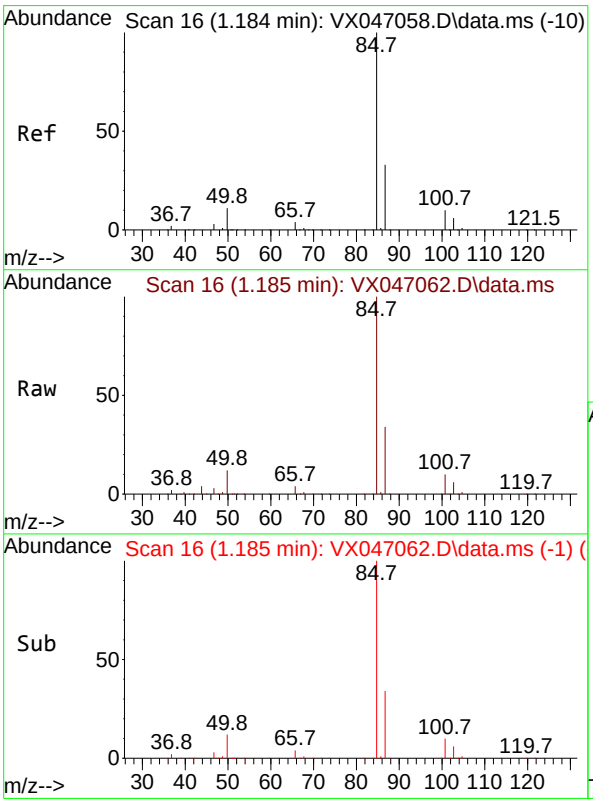
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:168 Resp: 353932

Ion	Ratio	Lower	Upper
168	100		
99	64.3	48.0	72.0

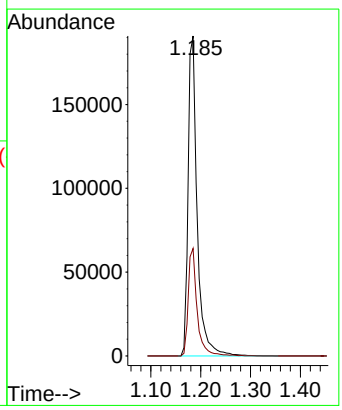


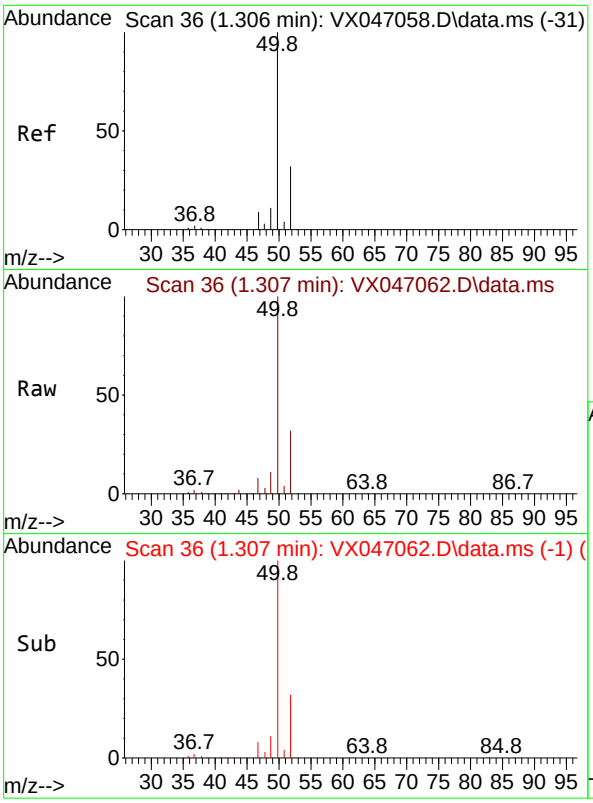


#2
Dichlorodifluoromethane
Concen: 51.252 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 85 Resp: 240944

Ion	Ratio	Lower	Upper
85	100		
87	33.6	16.6	49.8



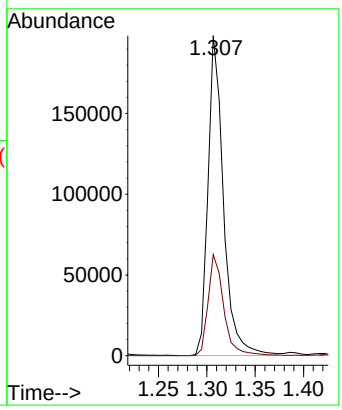


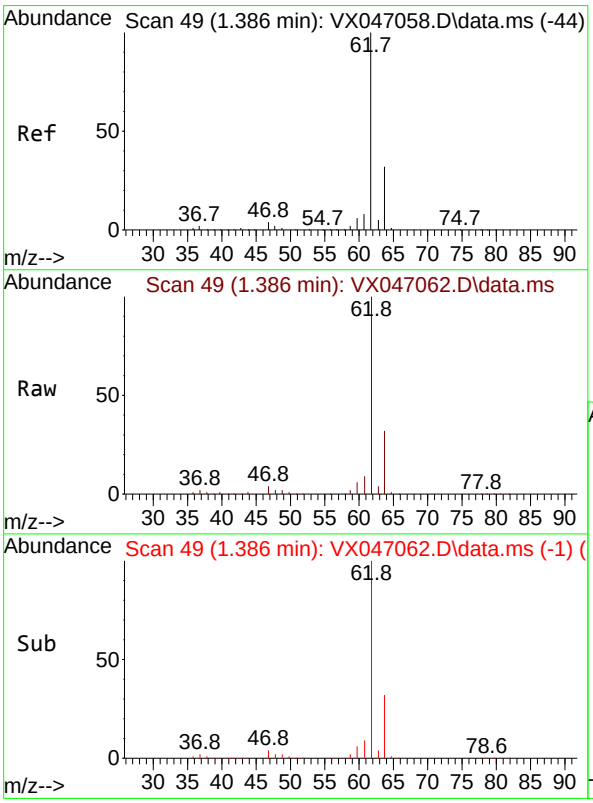
#3
Chloromethane
Concen: 47.383 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 50 Resp: 220344

Ion	Ratio	Lower	Upper
50	100		
52	31.6	25.4	38.2

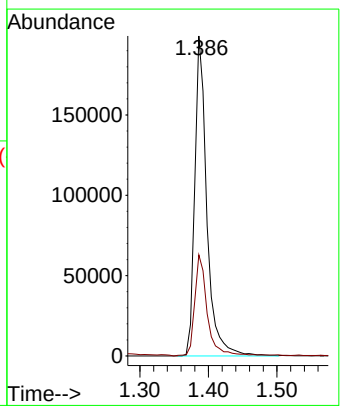


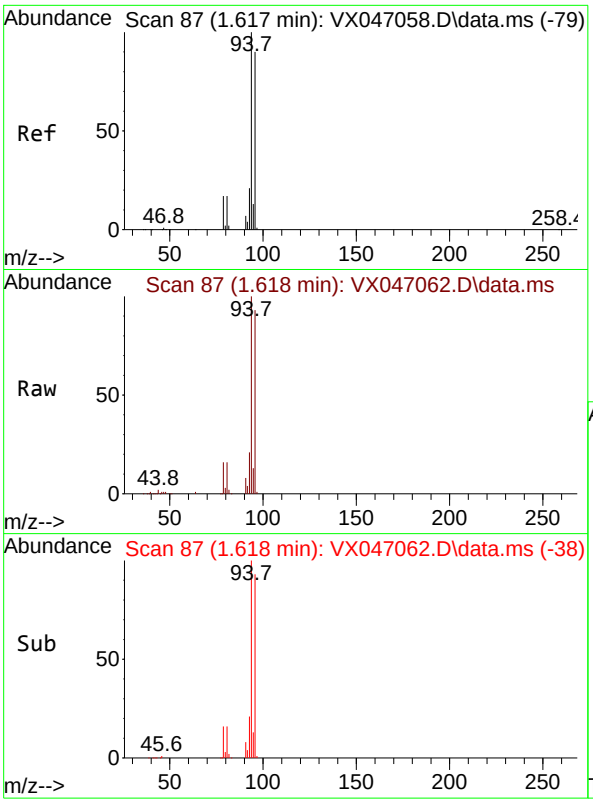


#4
Vinyl Chloride
Concen: 48.838 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 62 Resp: 244133

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.2	37.8



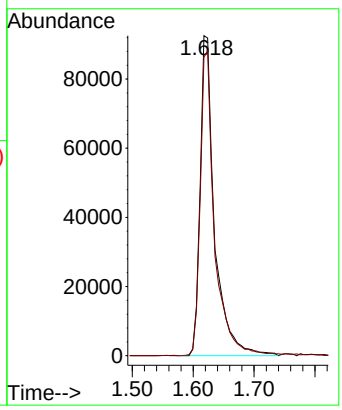


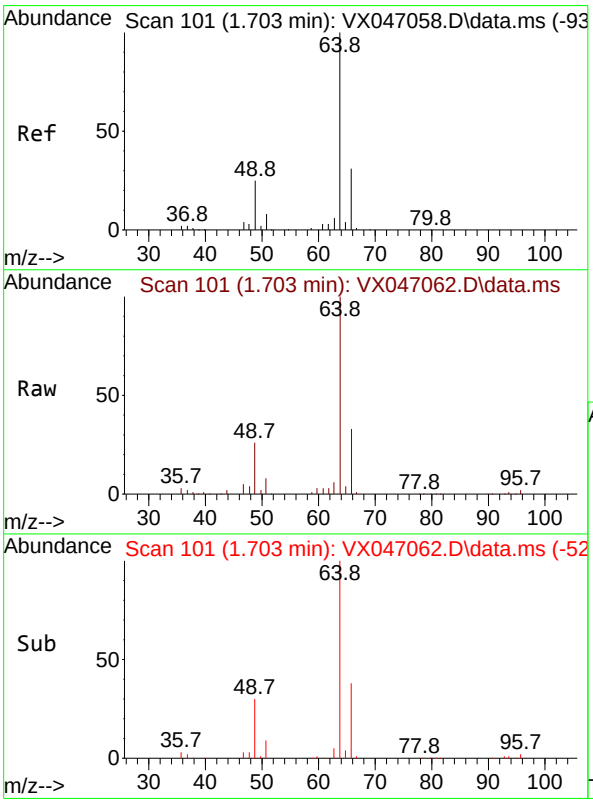
#5
Bromomethane
Concen: 56.435 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 94 Resp: 153243

Ion	Ratio	Lower	Upper
94	100		
96	93.3	72.3	108.5

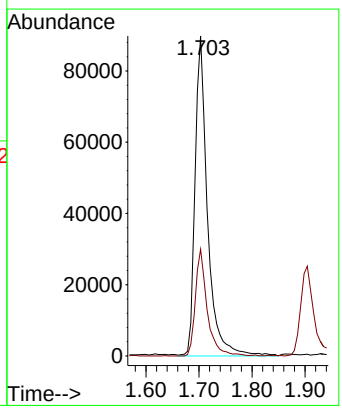


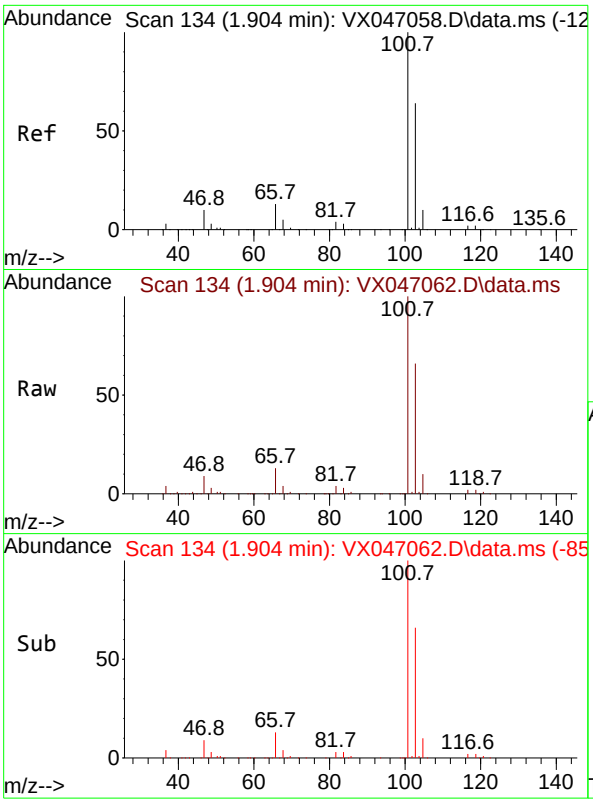


#6
Chloroethane
Concen: 44.676 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 64 Resp: 146679

Ion	Ratio	Lower	Upper
64	100		
66	33.3	25.0	37.6



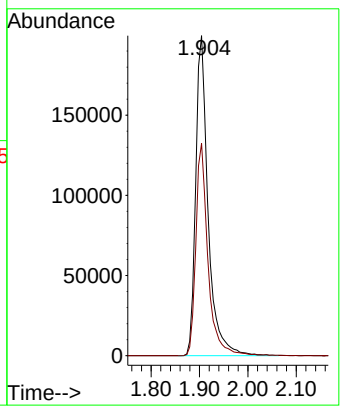


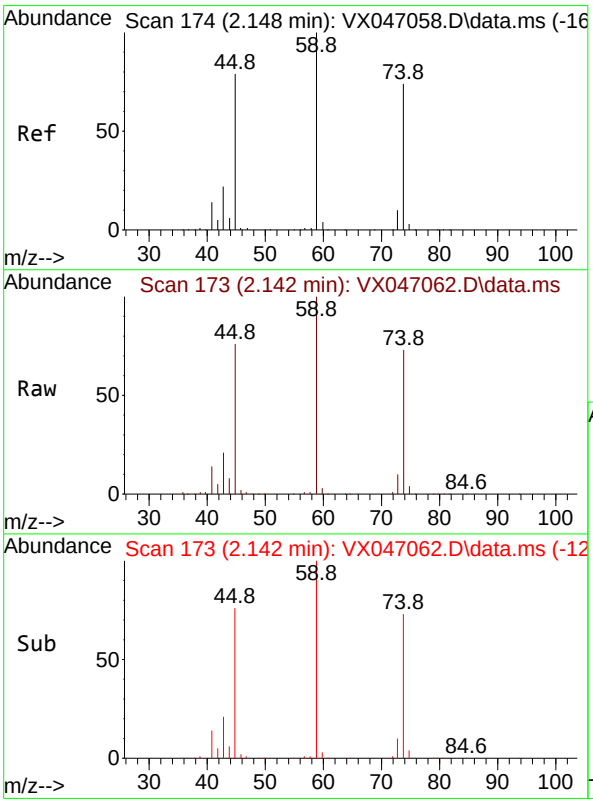
#7
Trichlorofluoromethane
Concen: 47.552 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:101 Resp: 354446

Ion	Ratio	Lower	Upper
101	100		
103	66.4	50.9	76.3

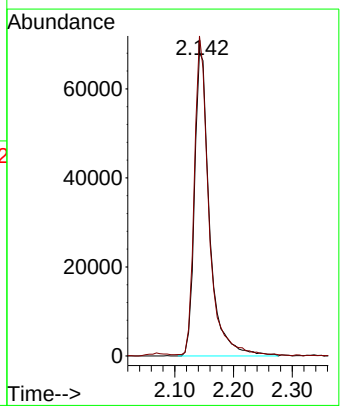


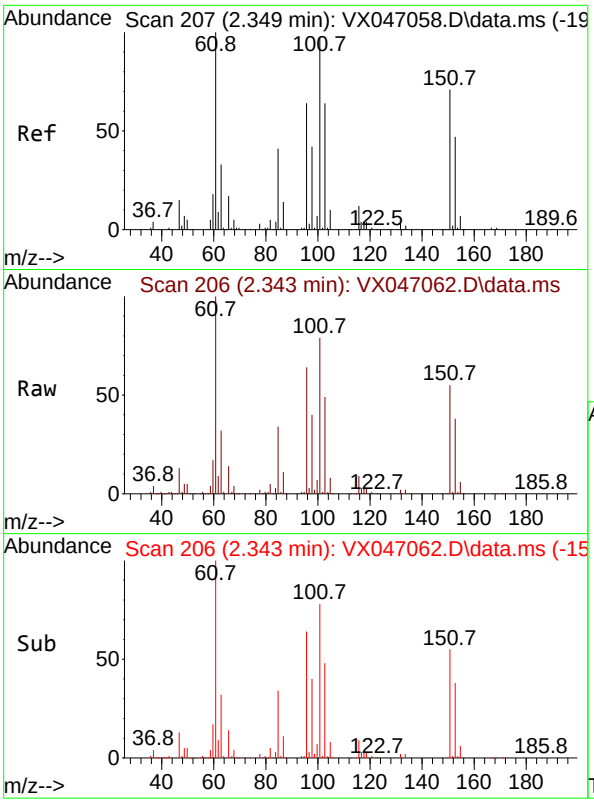


#8
Diethyl Ether
Concen: 46.477 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 74 Resp: 122150

Ion	Ratio	Lower	Upper
74	100		
45	101.7	53.0	159.0



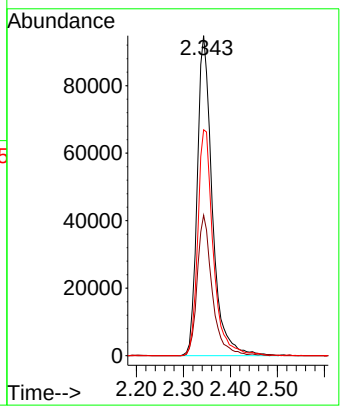


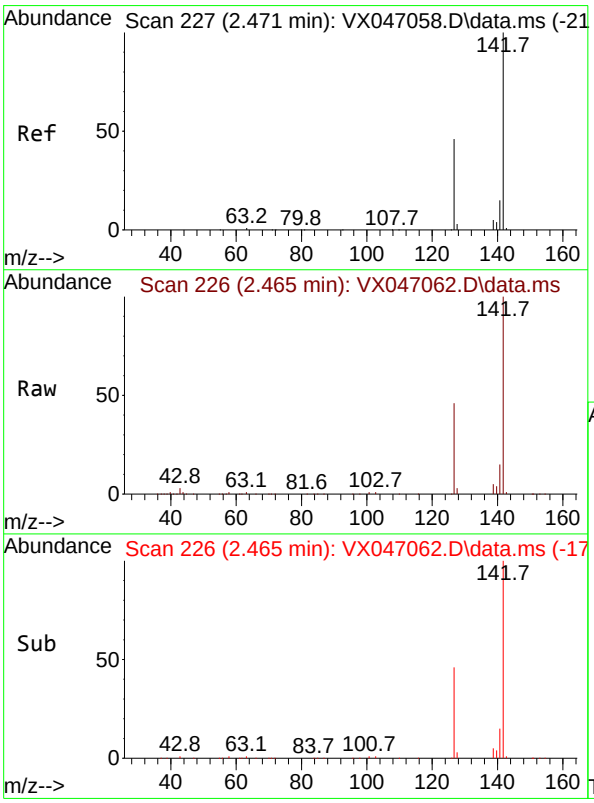
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.104 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:101 Resp: 211536

Ion	Ratio	Lower	Upper
101	100		
85	43.7	35.4	53.0
151	72.8	59.2	88.8

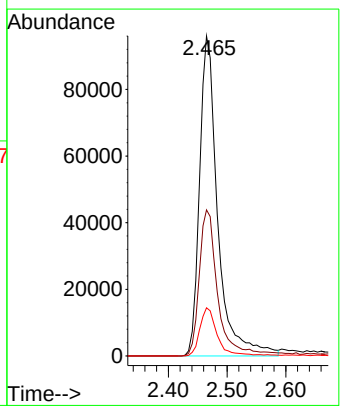


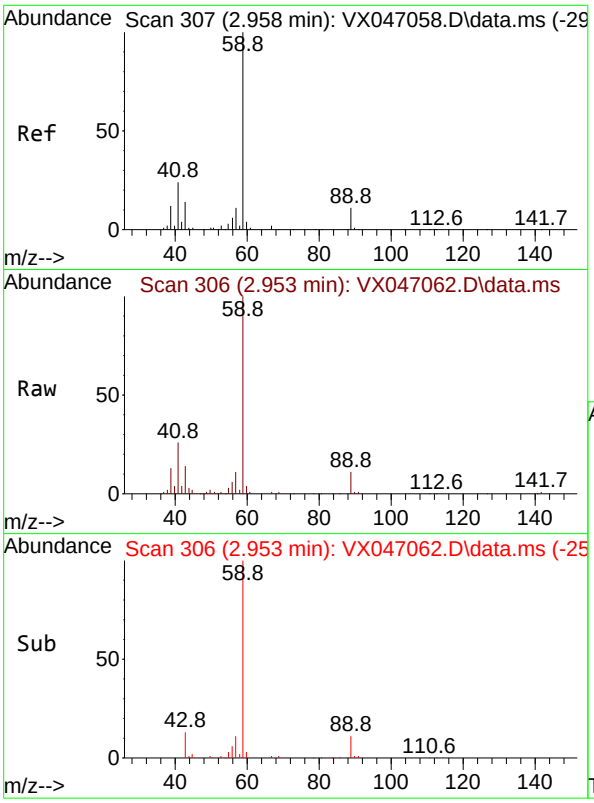


#10
Methyl Iodide
Concen: 45.047 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:142 Resp: 206176

Ion	Ratio	Lower	Upper
142	100		
127	47.4	36.6	54.8
141	14.6	10.9	16.3



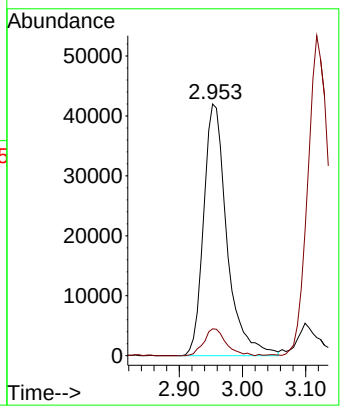


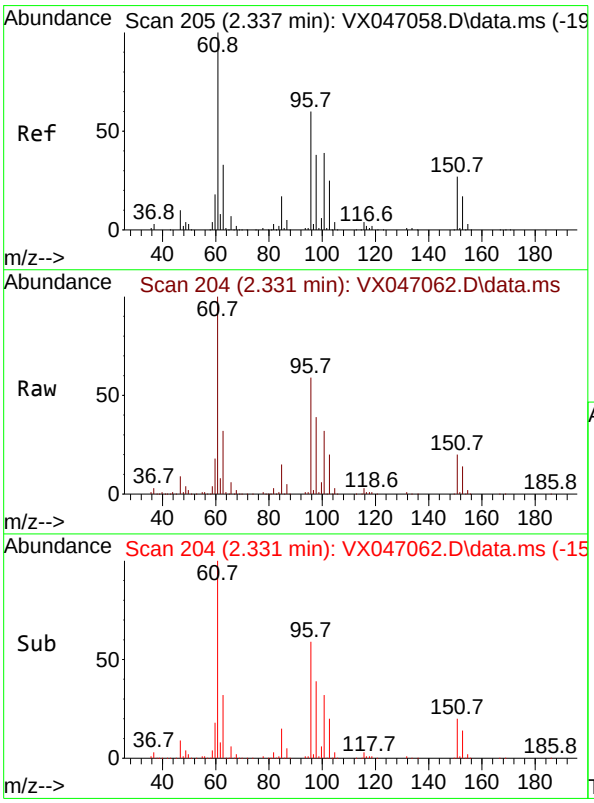
#11
Tert butyl alcohol
Concen: 207.194 ug/l
RT: 2.953 min Scan# 3
Delta R.T. -0.005 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 59 Resp: 107694

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.5	12.7

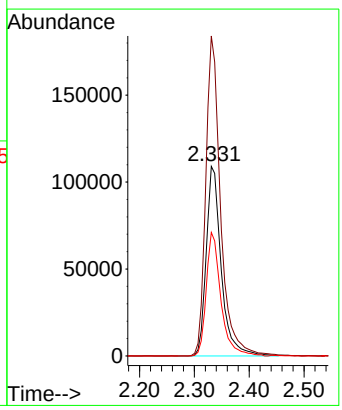


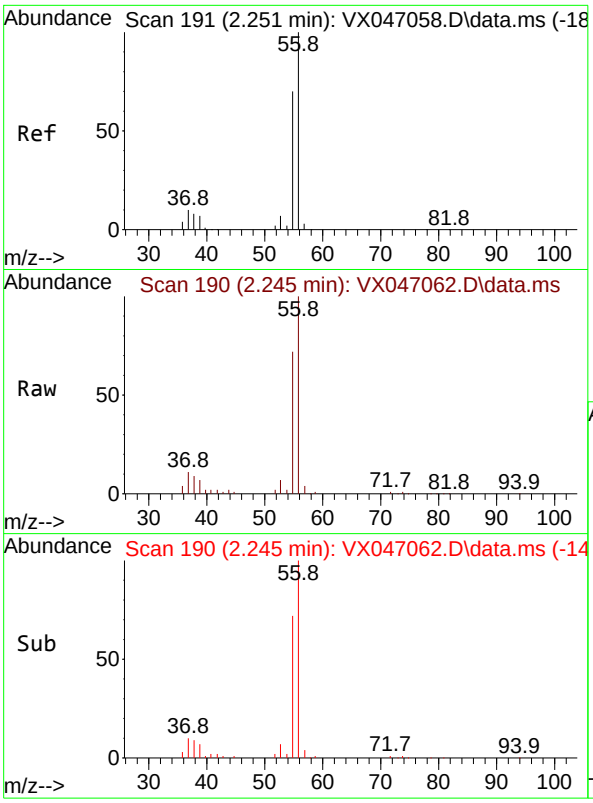


#12
1,1-Dichloroethene
Concen: 46.555 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 96 Resp: 207074

Ion	Ratio	Lower	Upper
96	100		
61	168.8	132.6	198.8
98	65.2	50.2	75.4



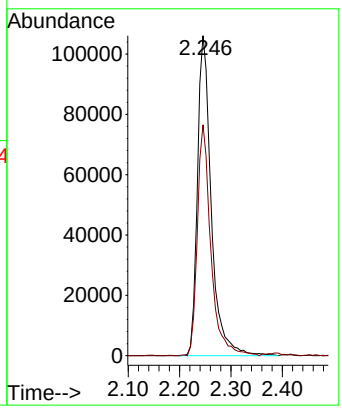


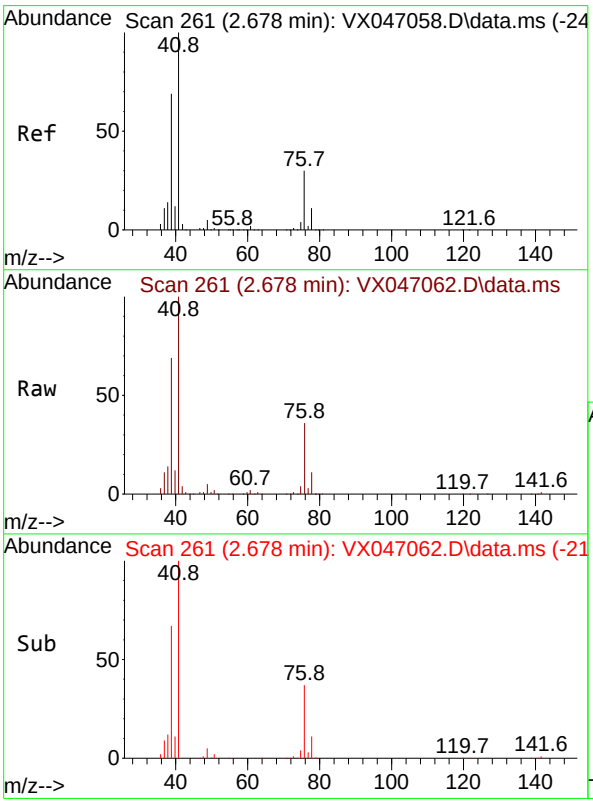
#13
Acrolein
Concen: 208.477 ug/l
RT: 2.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 56 Resp: 197909

Ion	Ratio	Lower	Upper
56	100		
55	70.5	55.7	83.5

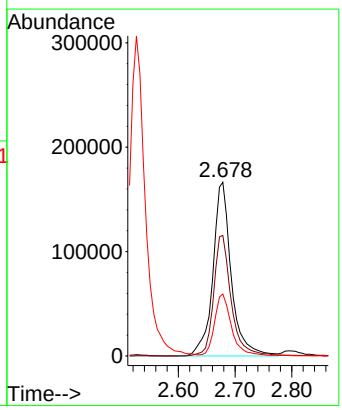


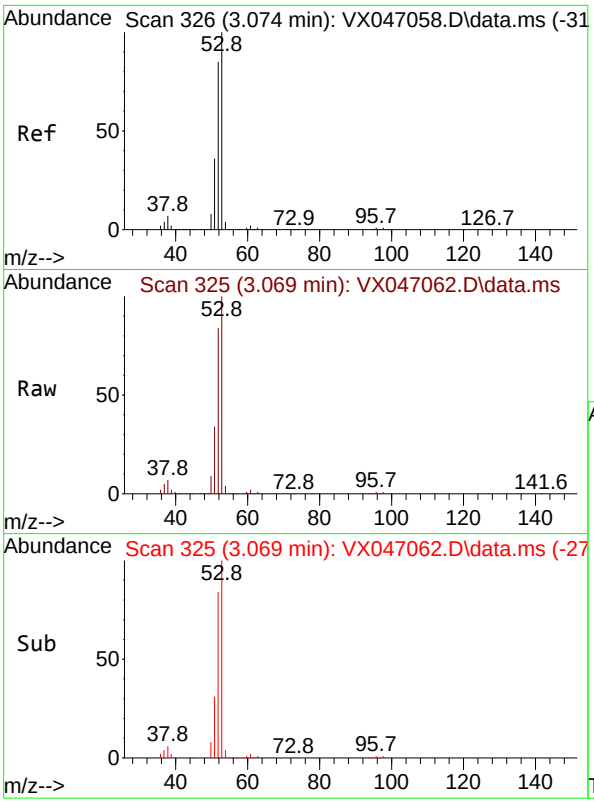


#14
Allyl chloride
Concen: 46.743 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 41 Resp: 375824

Ion	Ratio	Lower	Upper
41	100		
39	66.4	52.6	78.8
76	32.7	25.7	38.5



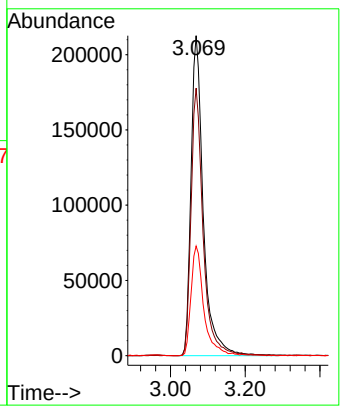


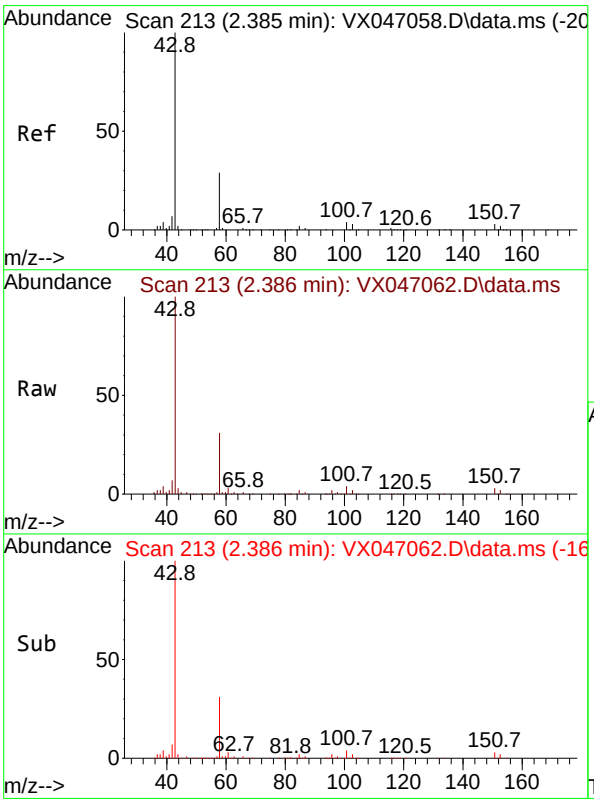
#15
Acrylonitrile
Concen: 230.845 ug/l
RT: 3.069 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 53 Resp: 485401

Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.7	98.5
51	36.0	28.8	43.2

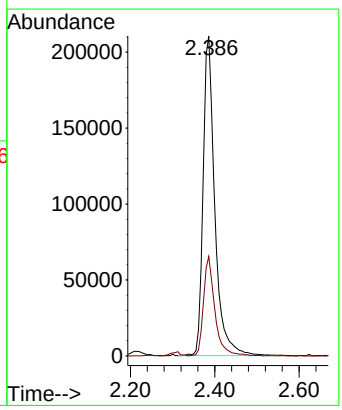


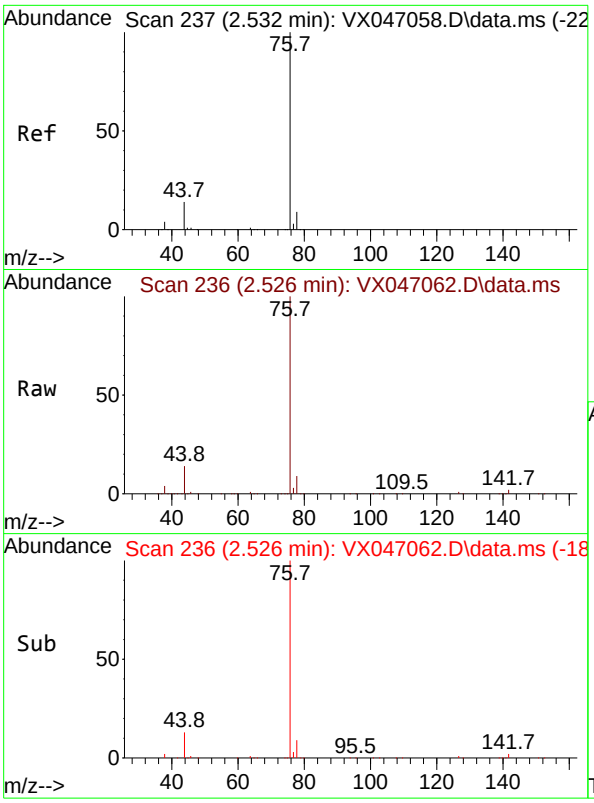


#16
Acetone
Concen: 230.823 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 43 Resp: 407681

Ion	Ratio	Lower	Upper
43	100		
58	32.5	24.0	36.0



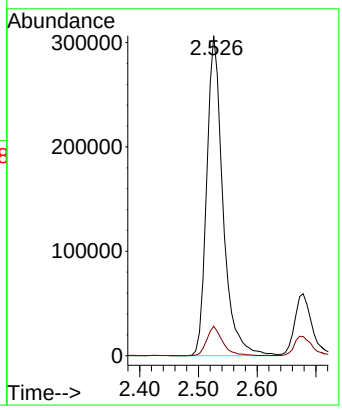


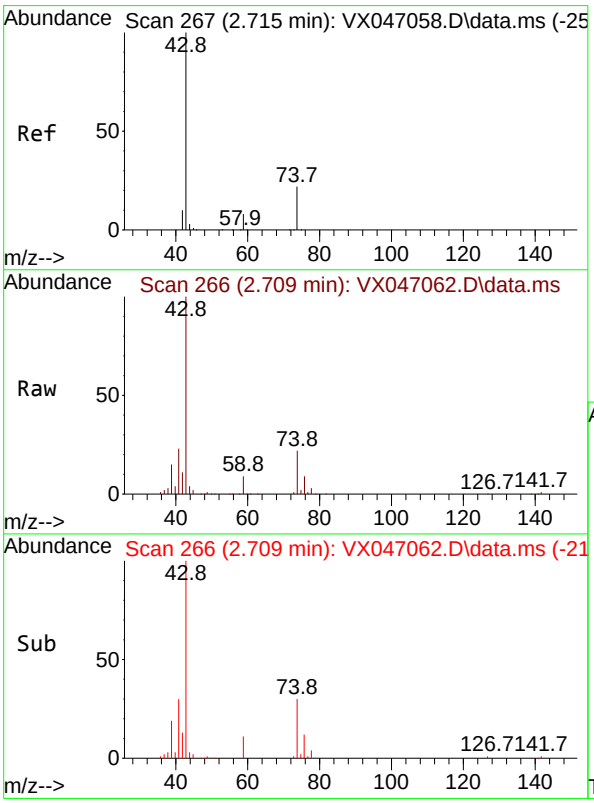
#17
Carbon Disulfide
Concen: 45.742 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 76 Resp: 588590

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.0	10.4

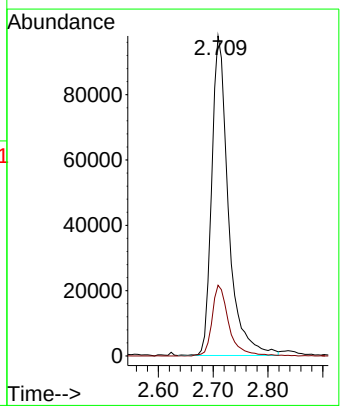


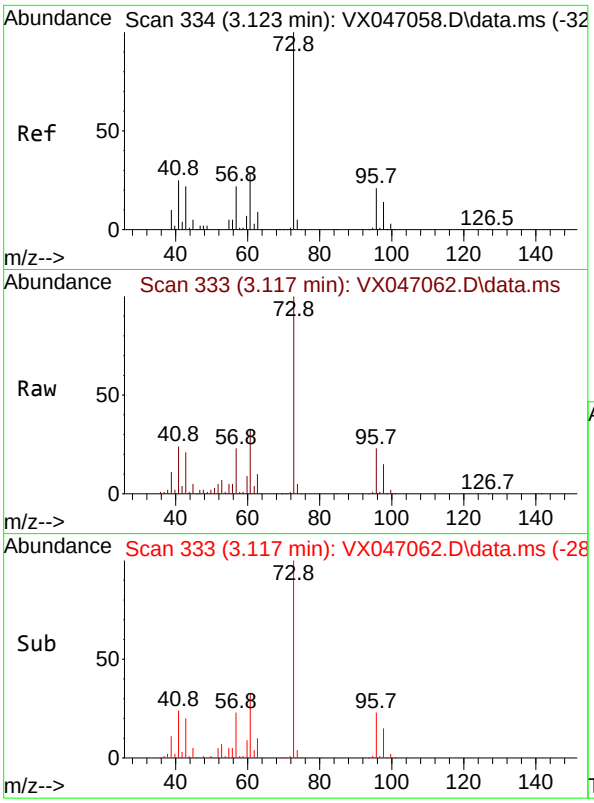


#18
Methyl Acetate
Concen: 44.045 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 43 Resp: 206733

Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.7	26.5



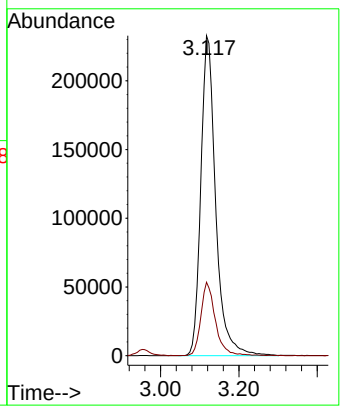


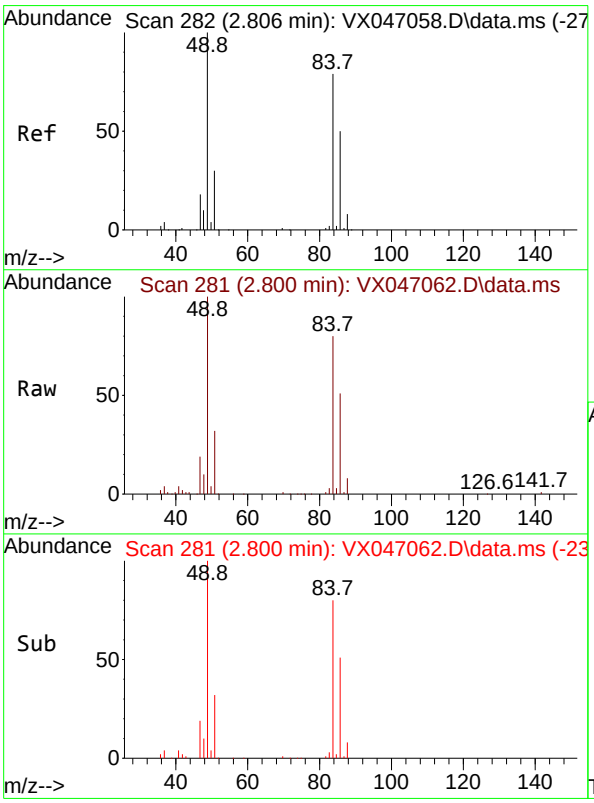
#19
Methyl tert-butyl Ether
Concen: 45.291 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 73 Resp: 613097

Ion	Ratio	Lower	Upper
73	100		
57	22.9	17.7	26.5

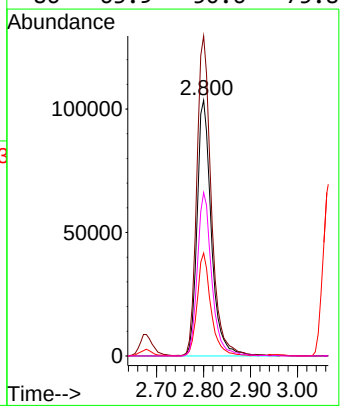


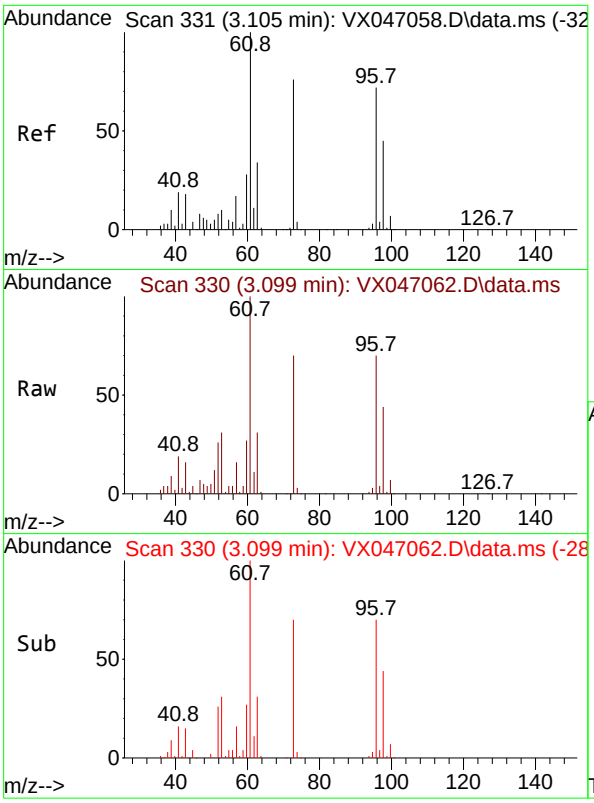


#20
Methylene Chloride
Concen: 45.041 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 84 Resp: 218853

Ion	Ratio	Lower	Upper
84	100		
49	124.9	101.6	152.4
51	40.2	30.3	45.5
86	63.9	50.6	75.8



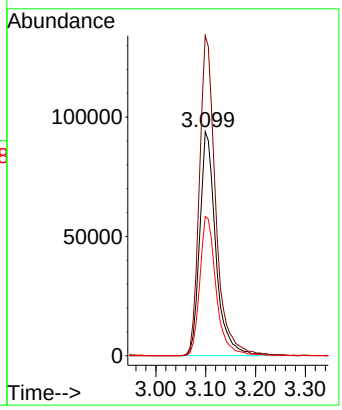


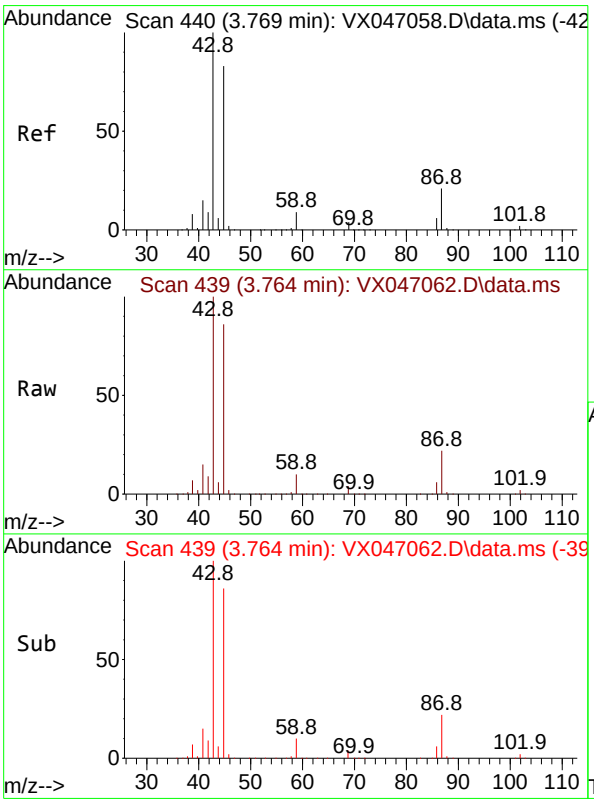
#21
trans-1,2-Dichloroethene
Concen: 46.188 ug/l
RT: 3.099 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 96 Resp: 210229

Ion	Ratio	Lower	Upper
96	100		
61	142.8	111.1	166.7
98	62.1	49.6	74.4

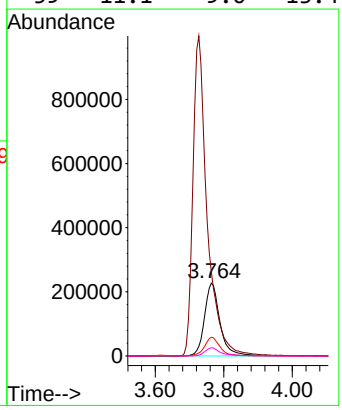


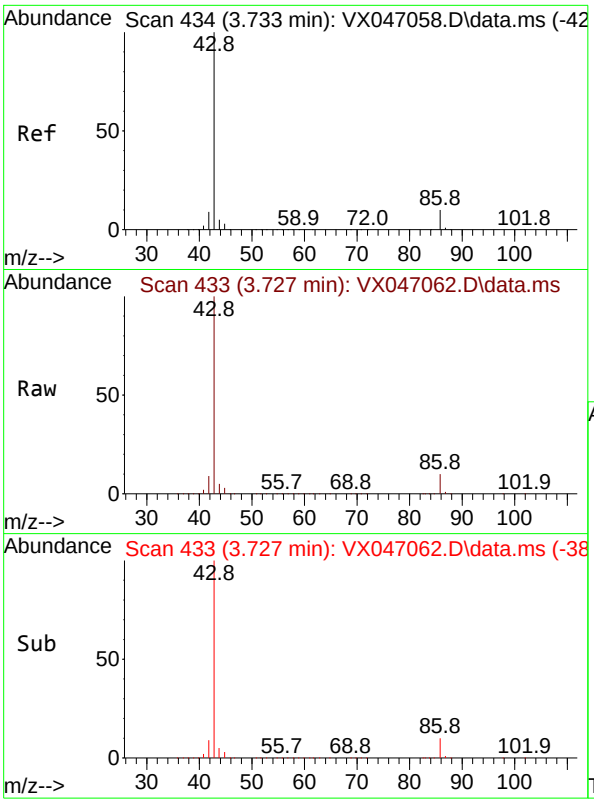


#22
Diisopropyl ether
Concen: 46.119 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 45 Resp: 712919

Ion	Ratio	Lower	Upper
45	100		
43	115.6	96.8	145.2
87	25.8	20.5	30.7
59	11.1	9.0	13.4



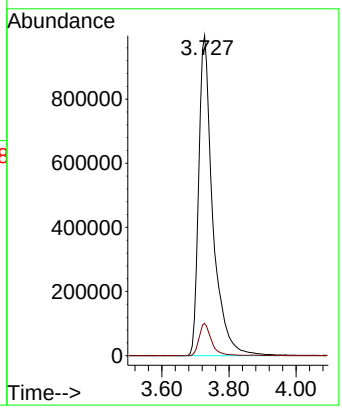


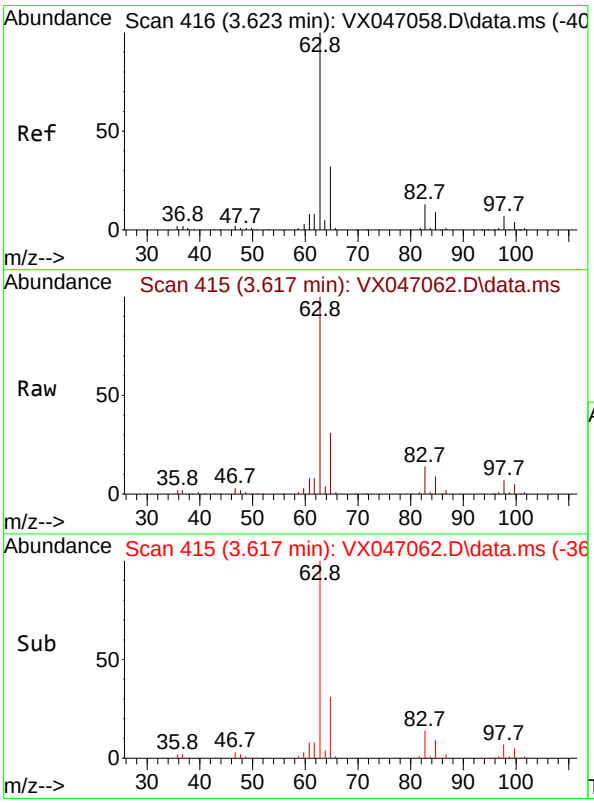
#23
Vinyl Acetate
Concen: 233.940 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 43 Resp: 2900485

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

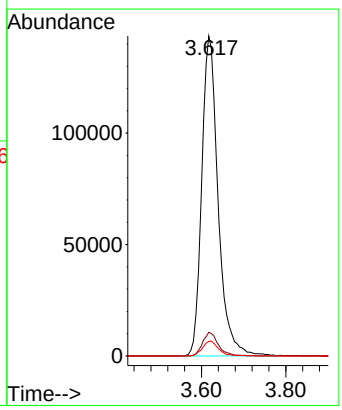


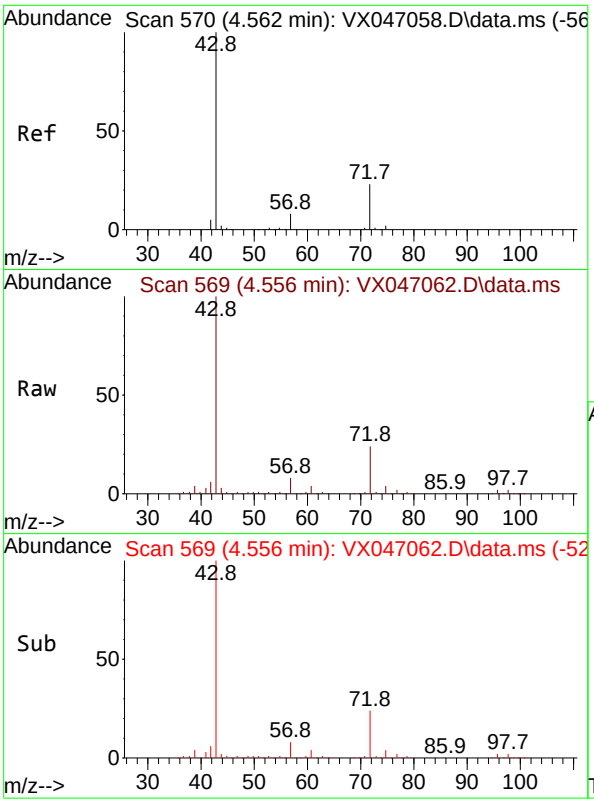


#24
1,1-Dichloroethane
Concen: 45.165 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 63 Resp: 388232

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	4.5	2.3	6.8



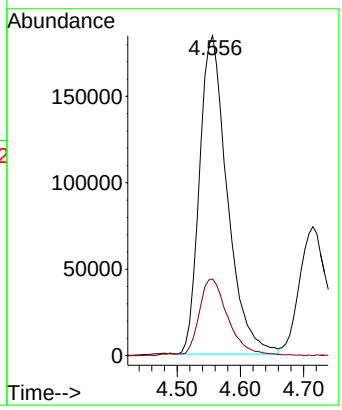


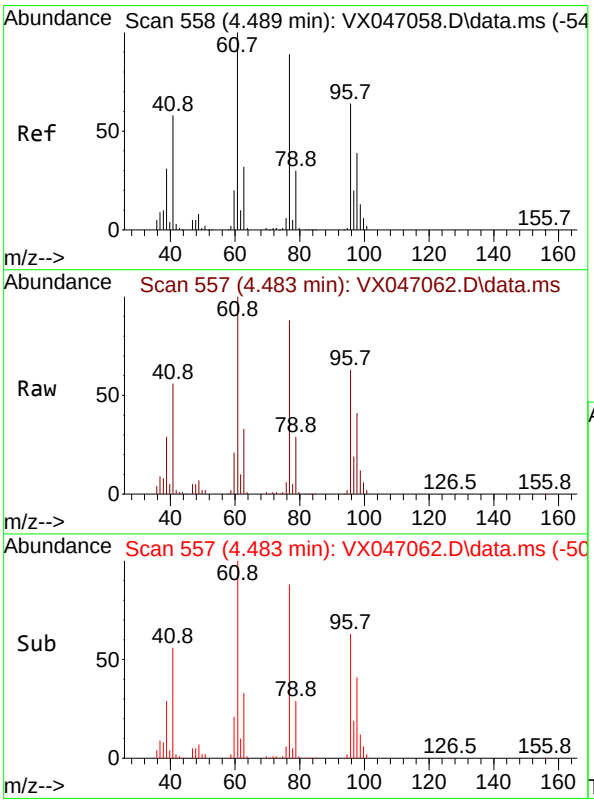
#25
2-Butanone
Concen: 218.892 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 43 Resp: 562934

Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.8	28.2

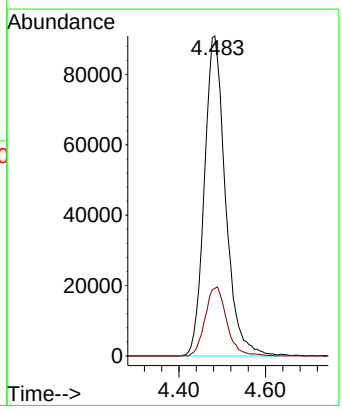


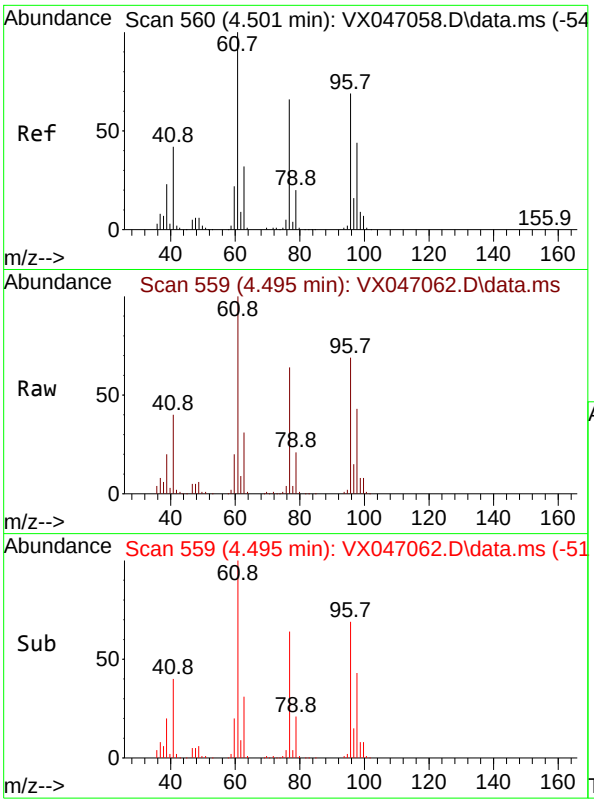


#26
2,2-Dichloropropane
Concen: 46.290 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 77 Resp: 308018

Ion	Ratio	Lower	Upper
77	100		
97	22.0	11.4	34.1



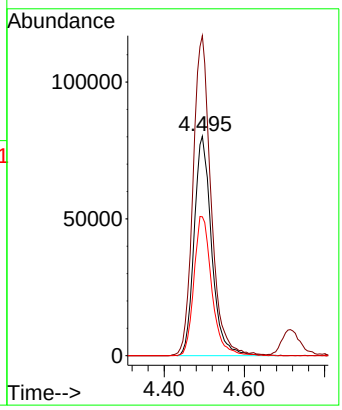


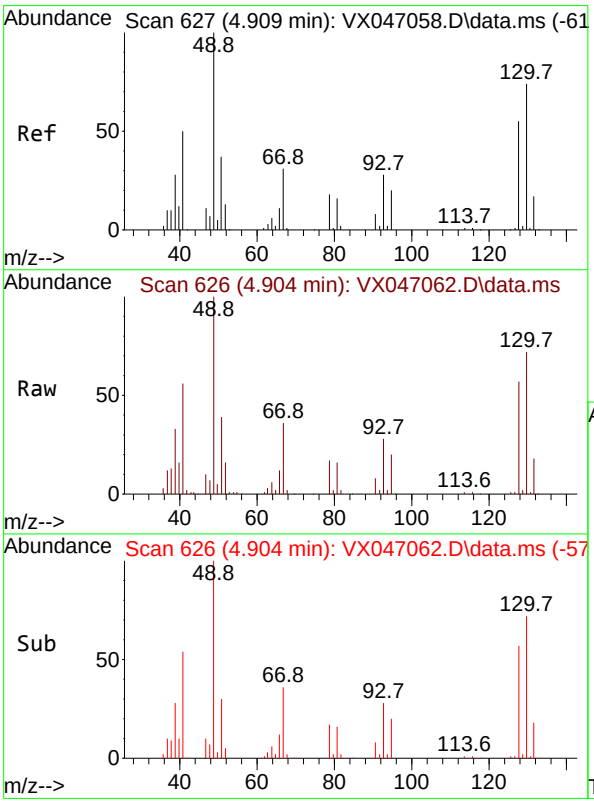
#27
cis-1,2-Dichloroethene
Concen: 44.906 ug/l
RT: 4.495 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 96 Resp: 242036

Ion	Ratio	Lower	Upper
96	100		
61	150.3	0.0	298.6
98	64.8	0.0	128.8

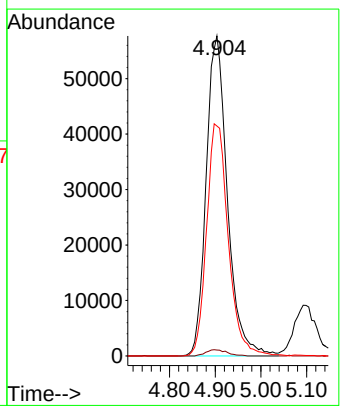


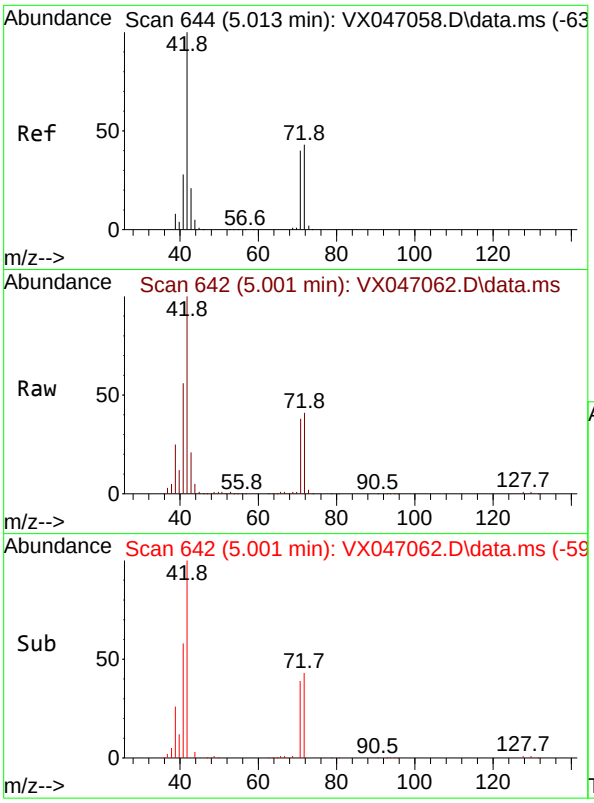


#28
Bromochloromethane
Concen: 47.168 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 49 Resp: 186533

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	73.9	59.0	88.4



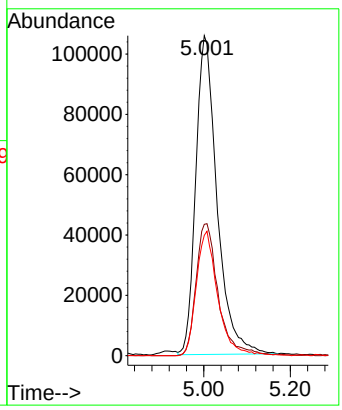


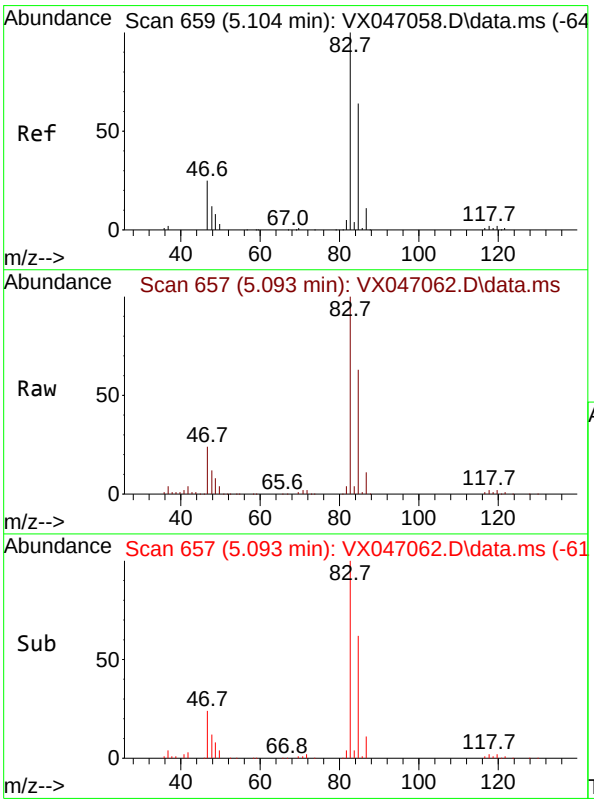
#29
Tetrahydrofuran
Concen: 217.460 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 42 Resp: 360837

Ion	Ratio	Lower	Upper
42	100		
72	43.1	33.7	50.5
71	39.5	31.0	46.4

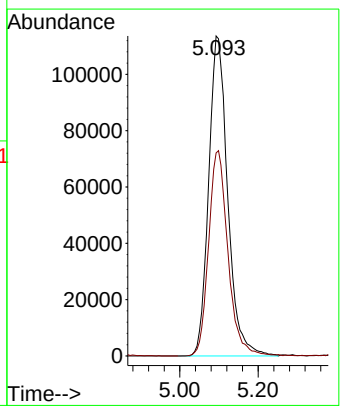


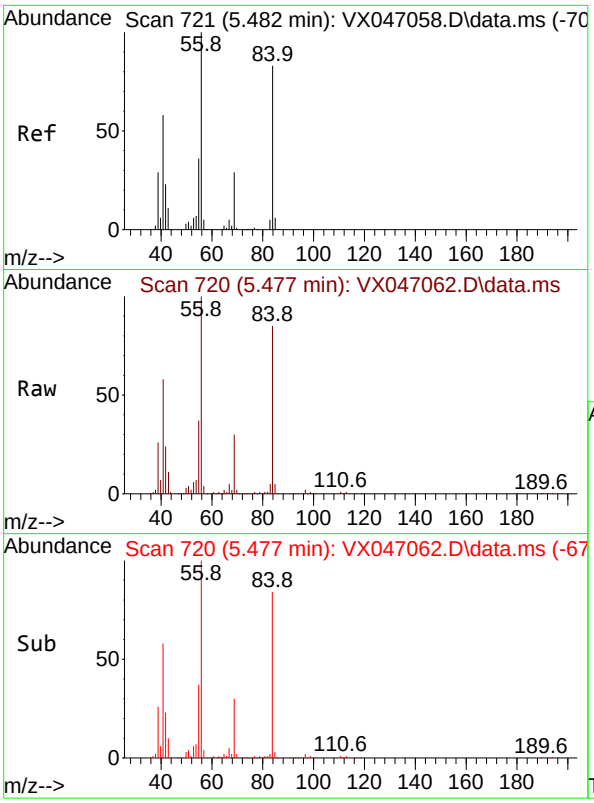


#30
Chloroform
Concen: 43.731 ug/l
RT: 5.093 min Scan# 657
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 83 Resp: 382651

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.9	76.3



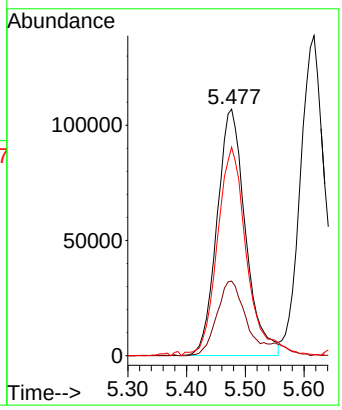


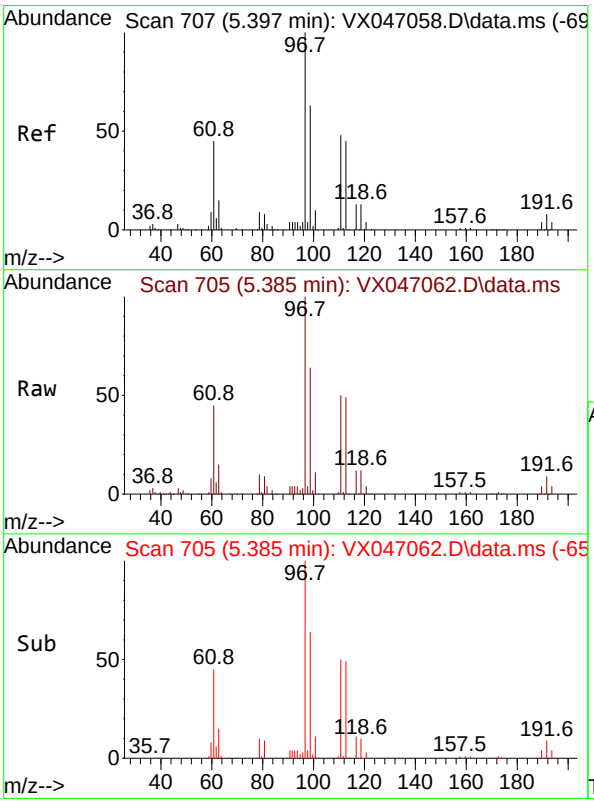
#31
Cyclohexane
Concen: 43.618 ug/l
RT: 5.477 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 56 Resp: 359502

Ion	Ratio	Lower	Upper
56	100		
69	30.2	23.3	34.9
84	82.9	66.5	99.7

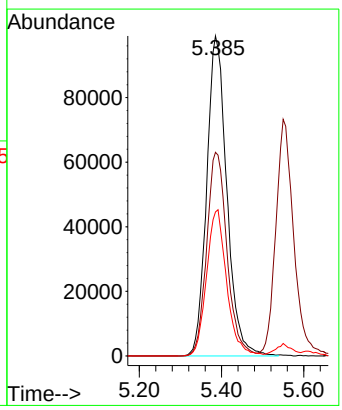


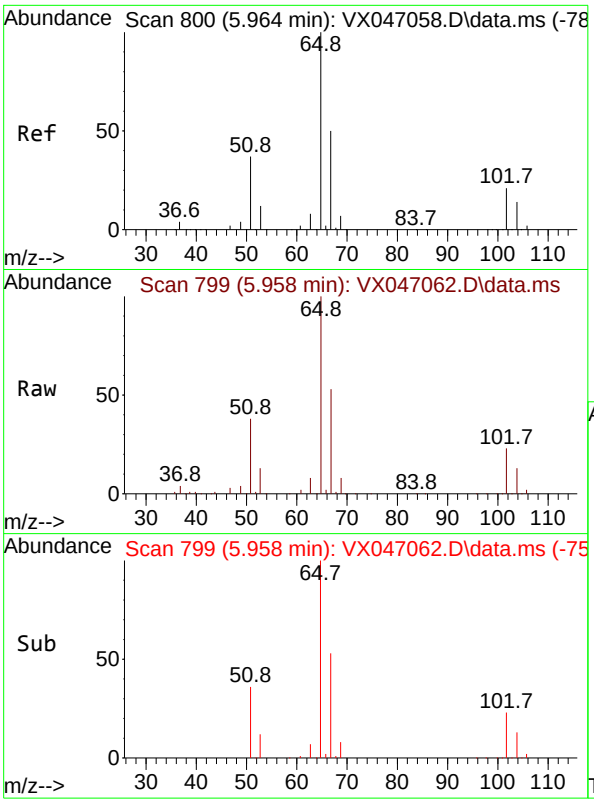


#32
1,1,1-Trichloroethane
Concen: 44.331 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 97 Resp: 336918

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.2	76.8
61	45.8	37.1	55.7



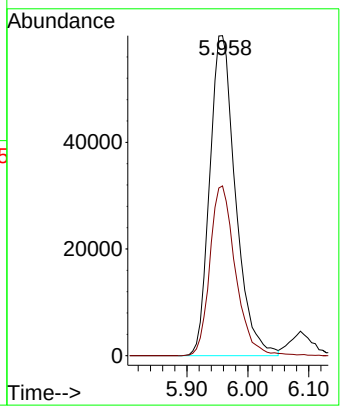


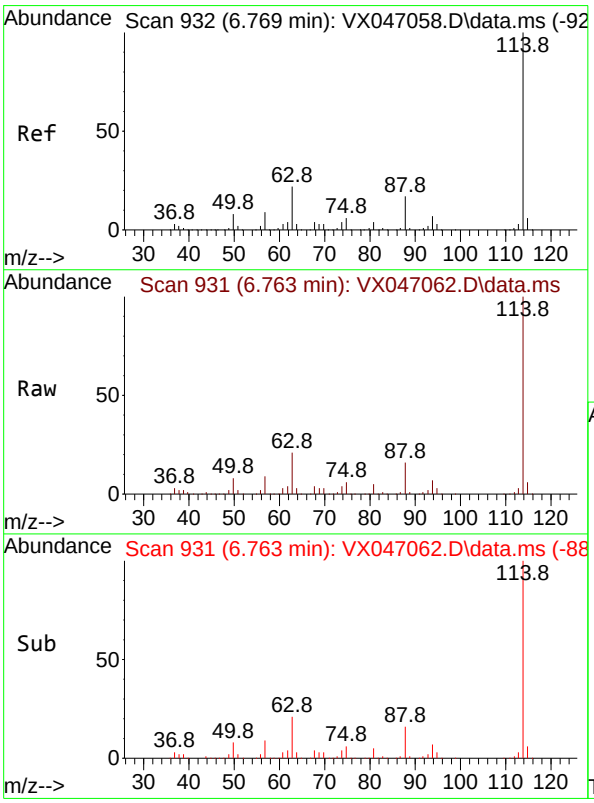
#33
1,2-Dichloroethane-d4
Concen: 40.022 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 65 Resp: 176451

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.8

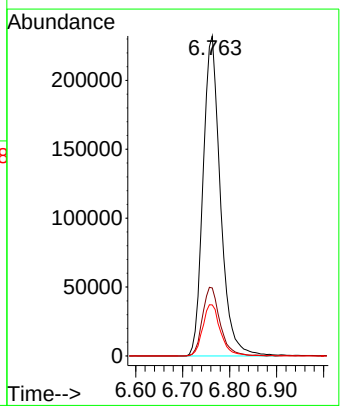


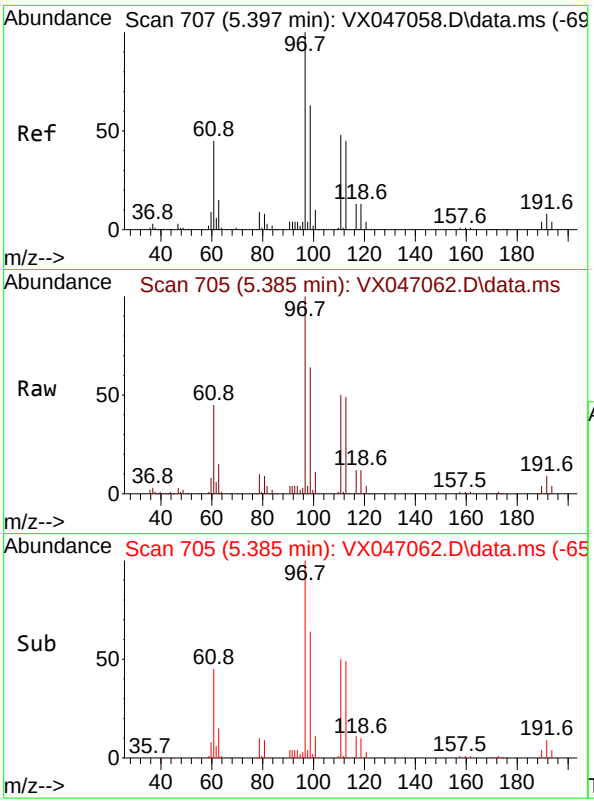


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:114 Resp: 594788

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.2
88	15.9	0.0	33.8



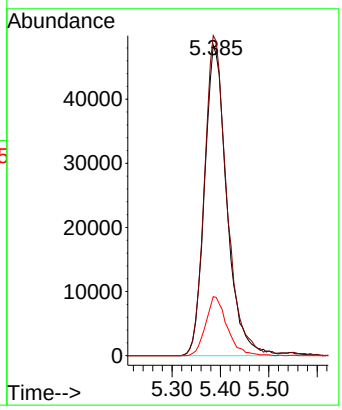


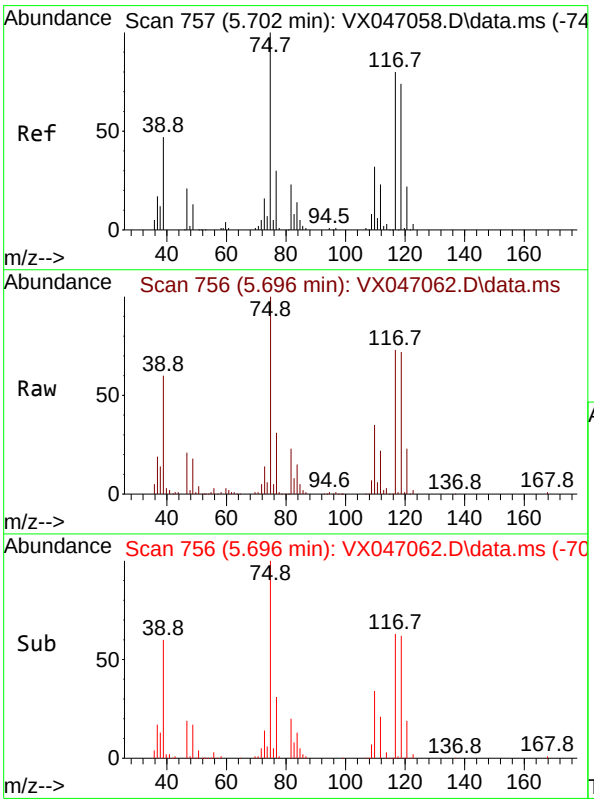
#35
Dibromofluoromethane
Concen: 42.247 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:113 Resp: 155150

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.6	124.0
192	18.3	14.9	22.3

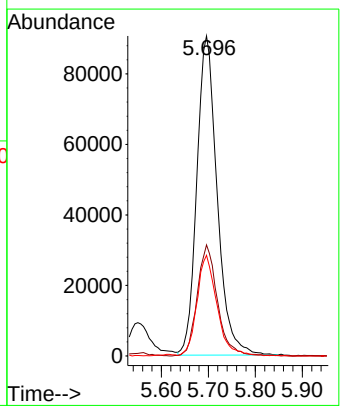


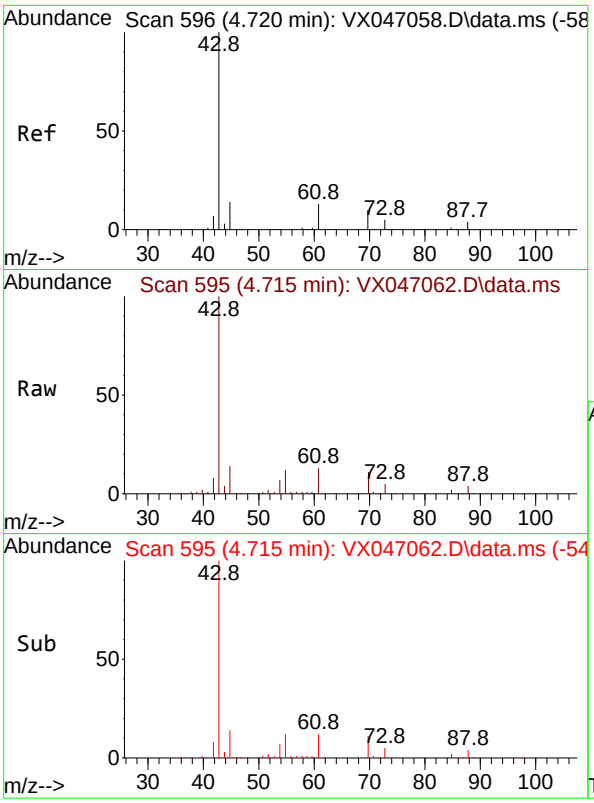


#36
1,1-Dichloropropene
Concen: 43.463 ug/l
RT: 5.696 min Scan# 756
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 75 Resp: 272074

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.2	51.5
77	30.6	25.1	37.7



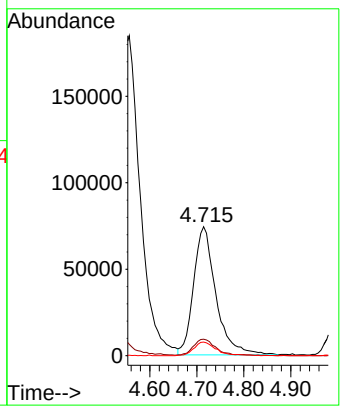


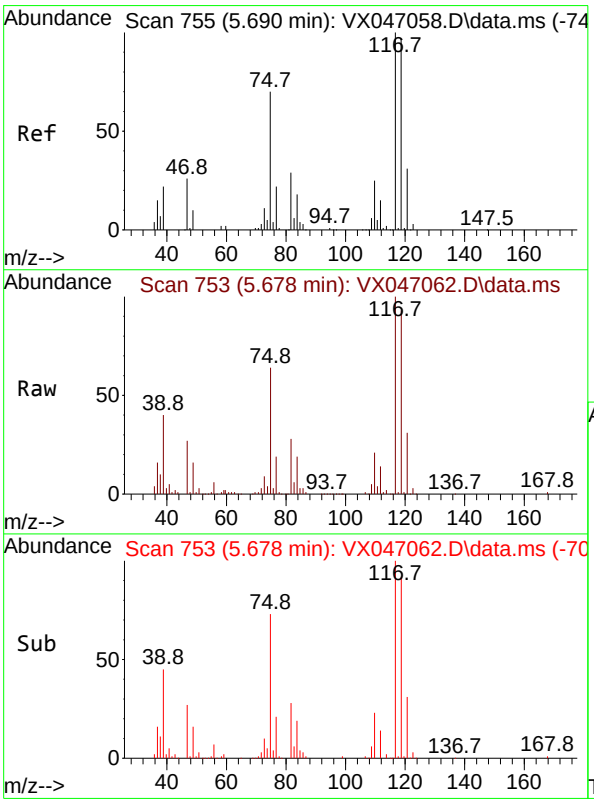
#37
Ethyl Acetate
Concen: 42.381 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 43 Resp: 244468

Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.2	15.2
70	10.7	8.1	12.1

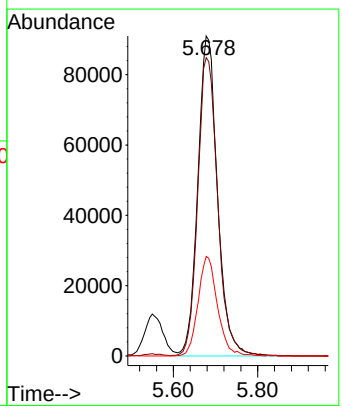


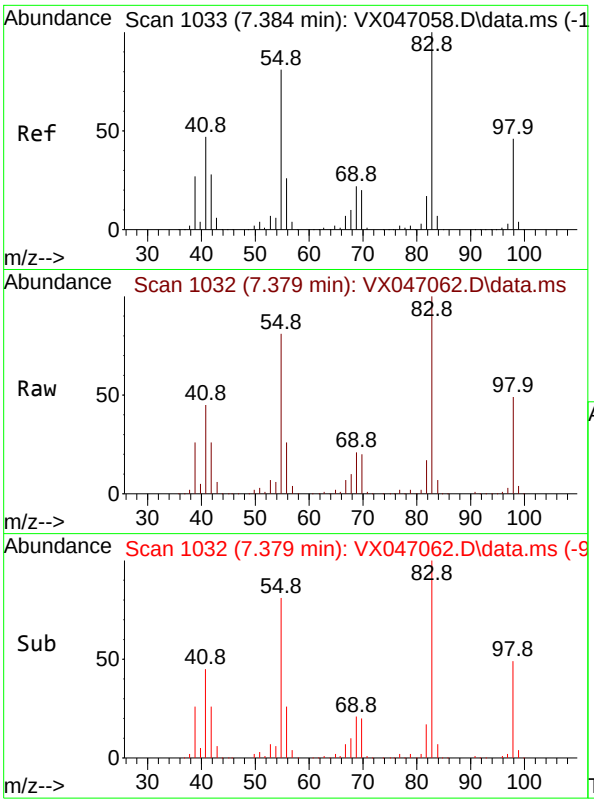


#38
Carbon Tetrachloride
Concen: 44.259 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:117 Resp: 295708

Ion	Ratio	Lower	Upper
117	100		
119	93.1	76.6	115.0
121	31.1	24.4	36.6



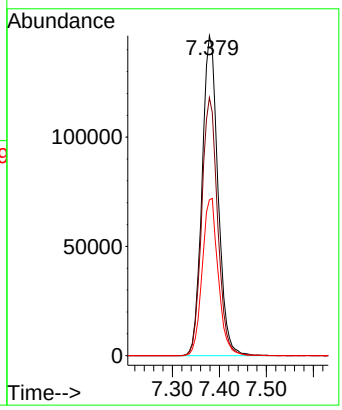


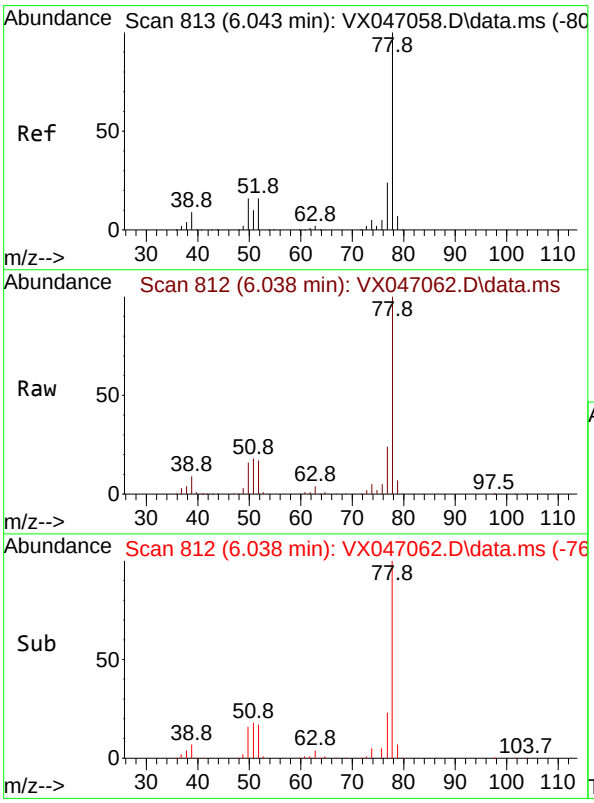
#39
Methylcyclohexane
Concen: 44.136 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 83 Resp: 344962

Ion	Ratio	Lower	Upper
83	100		
55	80.7	64.5	96.7
98	48.7	36.9	55.3

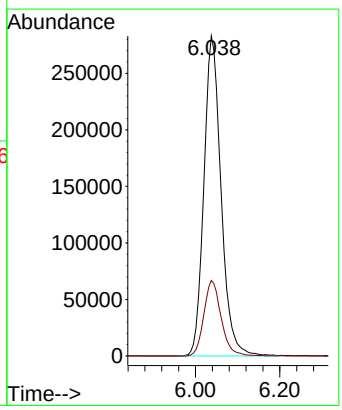


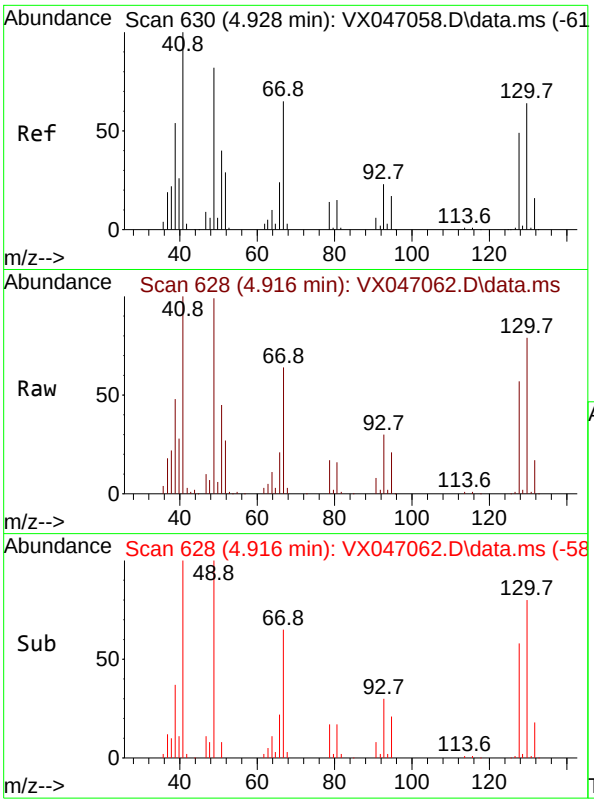


#40
Benzene
Concen: 44.304 ug/l
RT: 6.038 min Scan# 812
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 78 Resp: 802625

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4



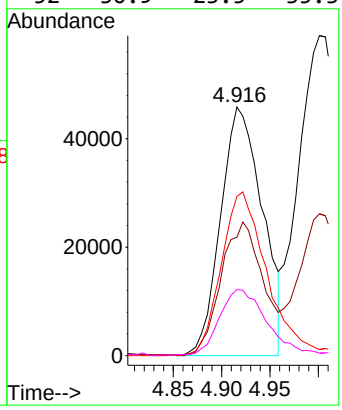


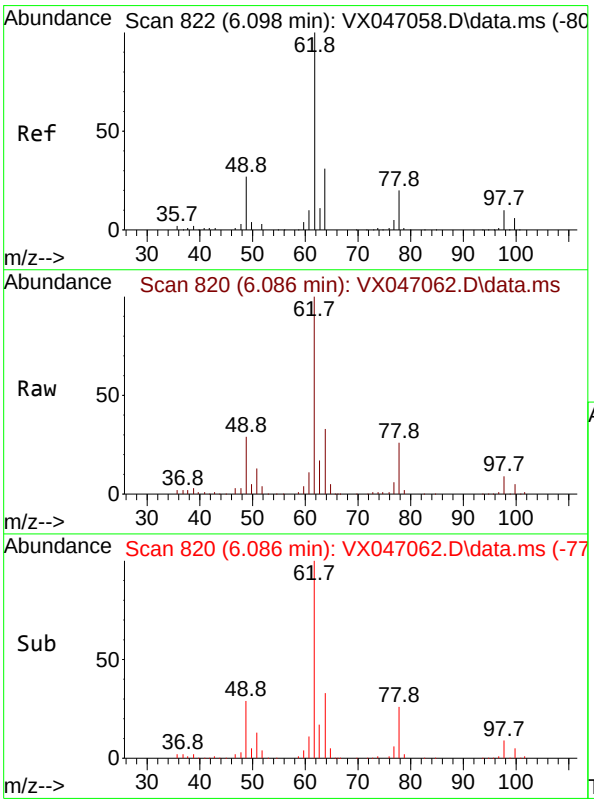
#41
Methacrylonitrile
Concen: 45.816 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 41 Resp: 138183

Ion	Ratio	Lower	Upper
41	100		
39	53.7	44.2	66.2
67	73.0	56.4	84.6
52	30.9	23.5	35.3

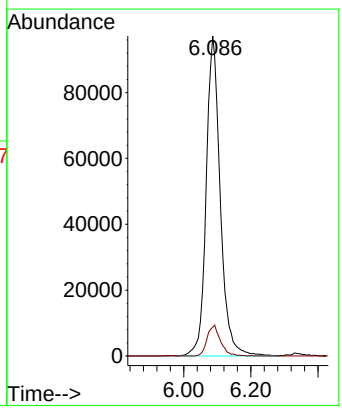


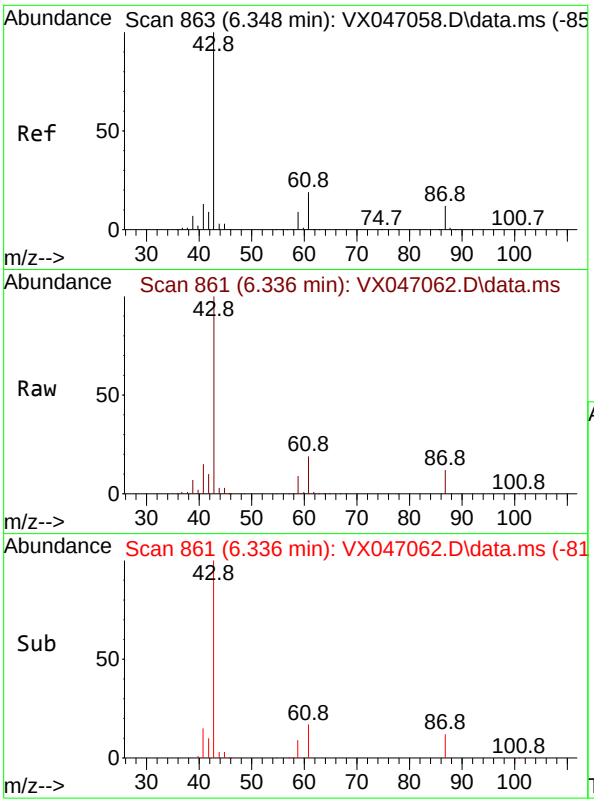


#42
1,2-Dichloroethane
Concen: 44.378 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 62 Resp: 283205

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.8



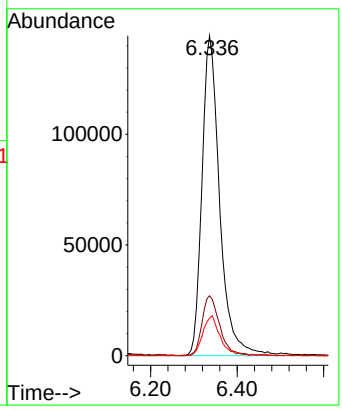


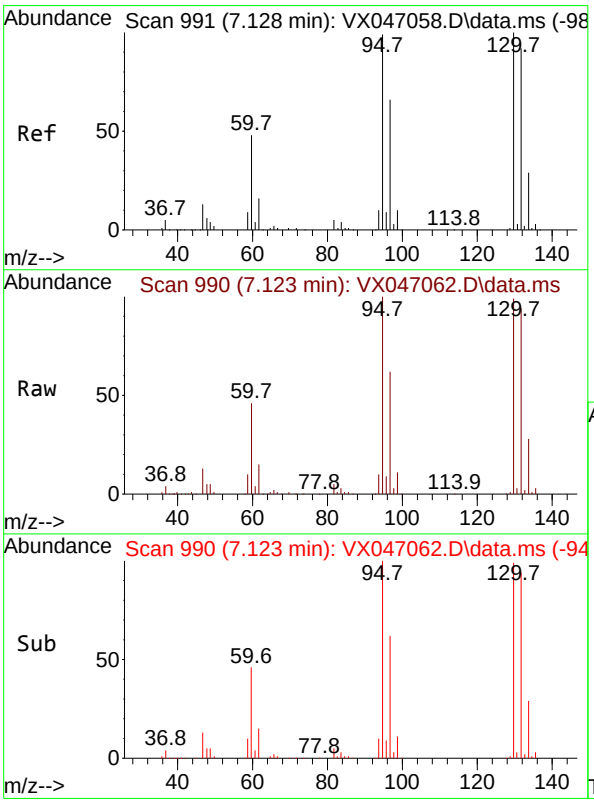
#43
Isopropyl Acetate
Concen: 45.564 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 43 Resp: 409733

Ion	Ratio	Lower	Upper
43	100		
61	18.6	15.1	22.7
87	12.3	9.7	14.5

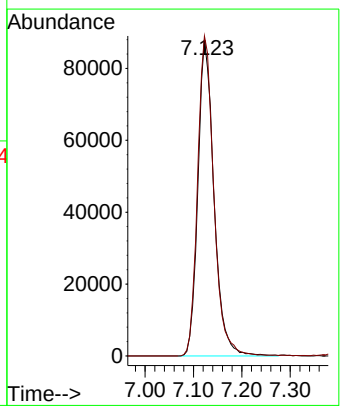


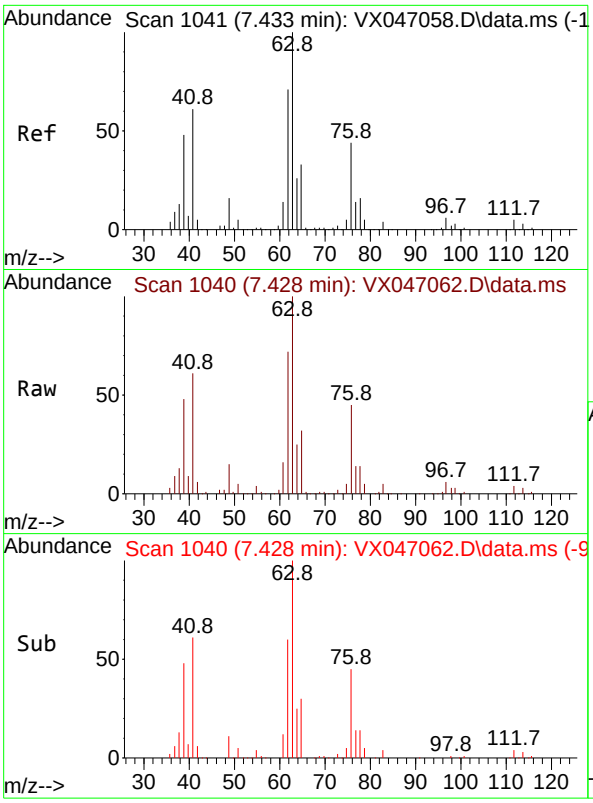


#44
Trichloroethene
Concen: 43.658 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:130 Resp: 202817

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	198.6



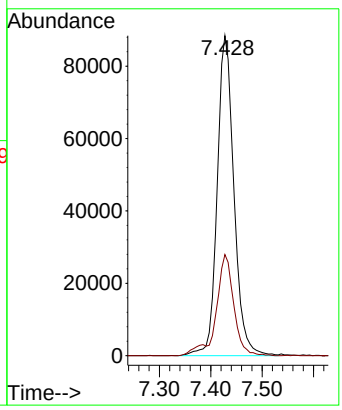


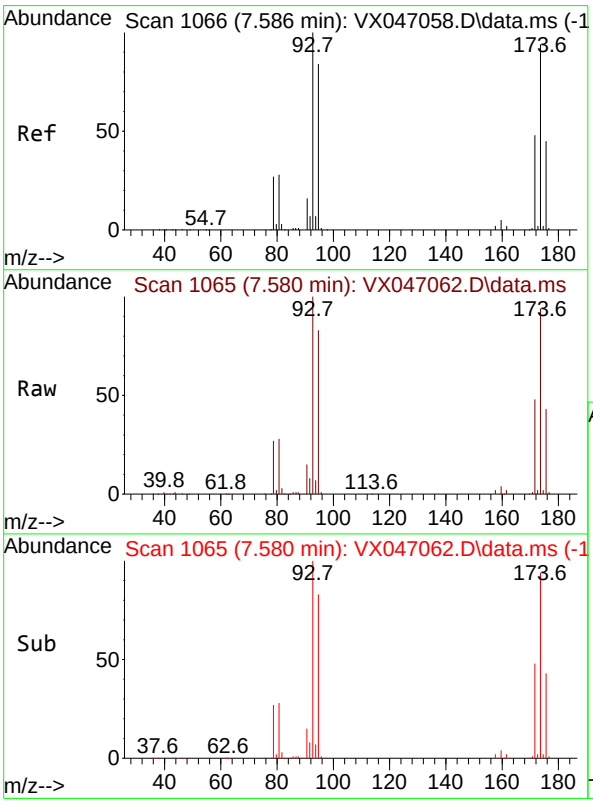
#45
1,2-Dichloropropane
Concen: 44.093 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 63 Resp: 200065

Ion	Ratio	Lower	Upper
63	100		
65	31.6	26.3	39.5

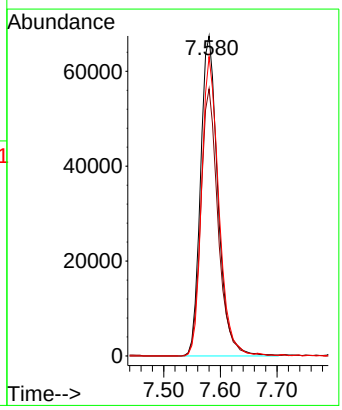


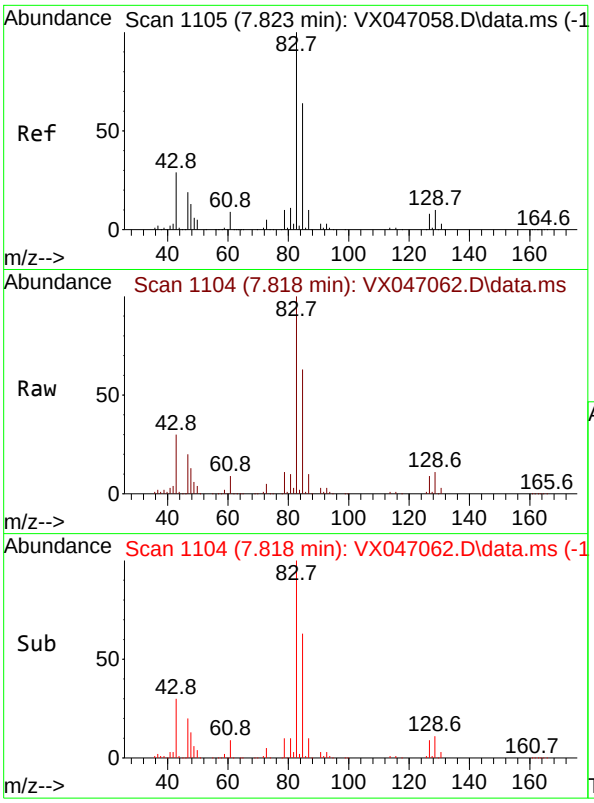


#46
Dibromomethane
Concen: 45.121 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 93 Resp: 143569

Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.9	98.9
174	92.1	74.6	112.0



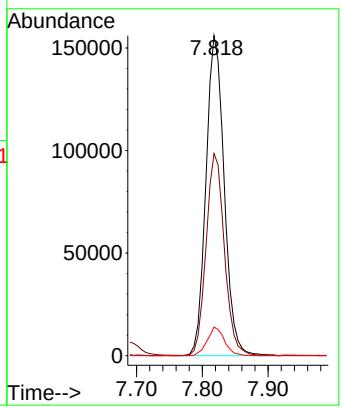


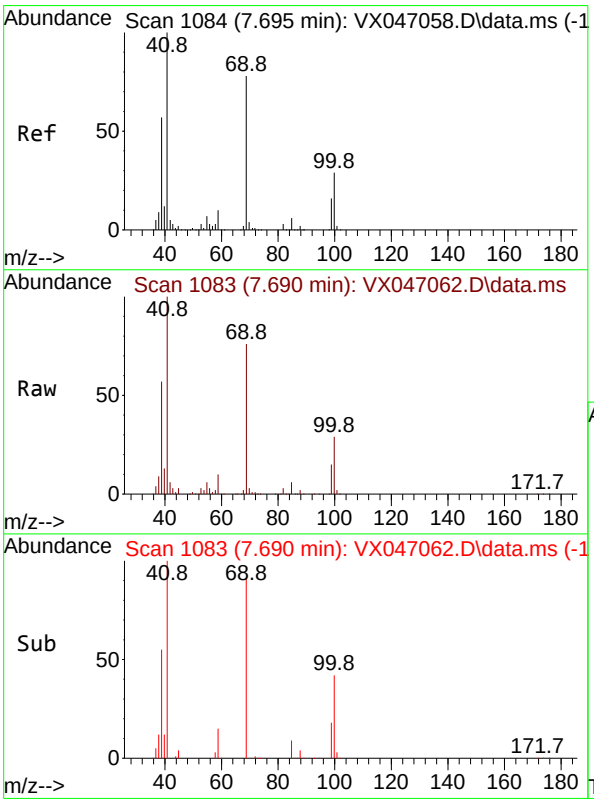
#47
Bromodichloromethane
Concen: 44.463 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 83 Resp: 301133

Ion	Ratio	Lower	Upper
83	100		
85	63.2	49.9	74.9
127	8.9	6.6	10.0

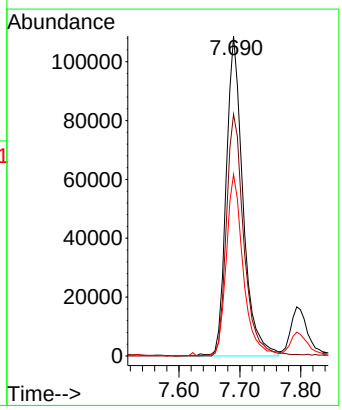


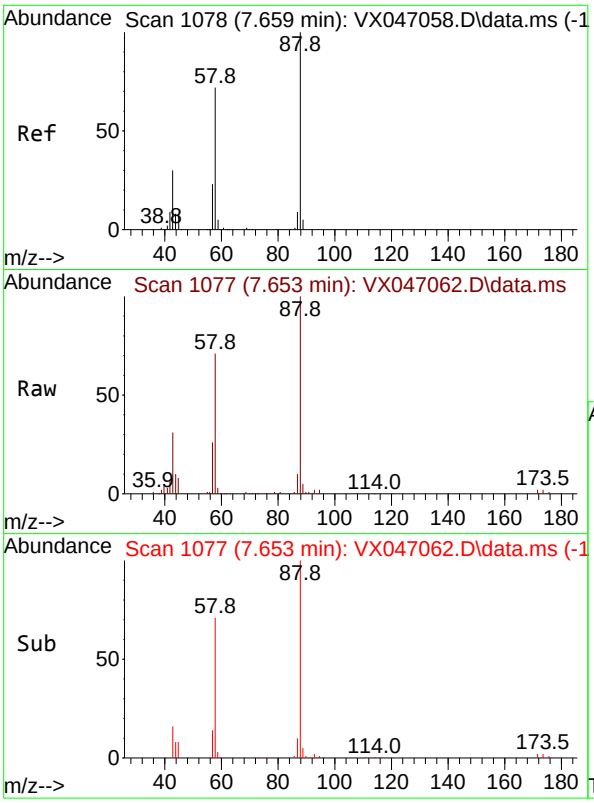


#48
Methyl methacrylate
Concen: 42.505 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 41 Resp: 208228

Ion	Ratio	Lower	Upper
41	100		
69	78.4	62.3	93.5
39	56.5	44.8	67.2



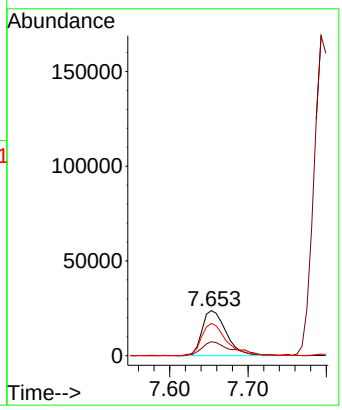


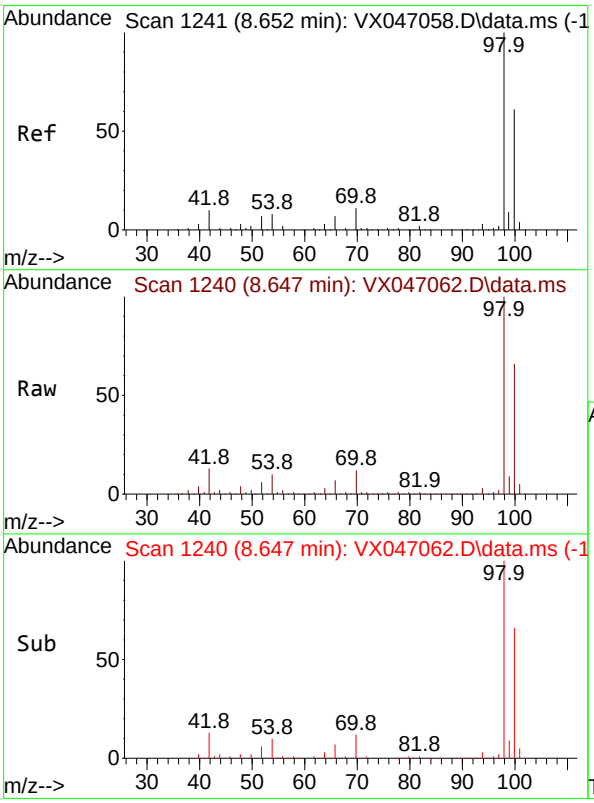
#49
1,4-Dioxane
Concen: 910.550 ug/l
RT: 7.653 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 88 Resp: 50734

Ion	Ratio	Lower	Upper
88	100		
43	40.4	33.6	50.4
58	73.8	58.8	88.2

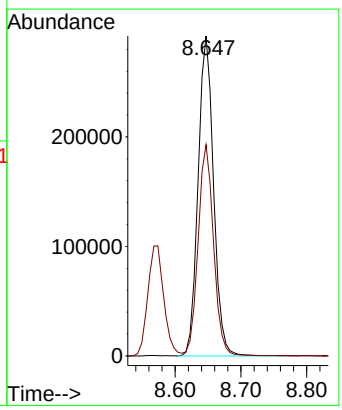


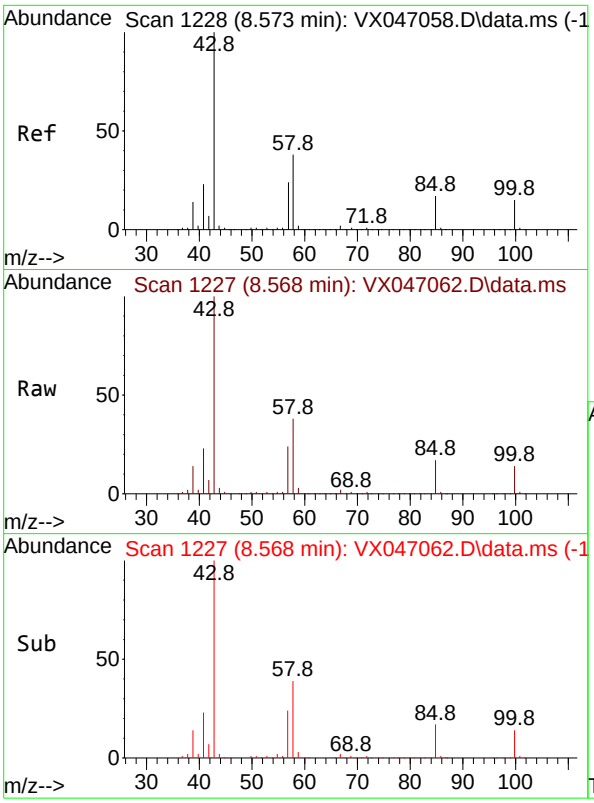


#50
Toluene-d8
Concen: 40.102 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 98 Resp: 476939

Ion	Ratio	Lower	Upper
98	100		
100	65.8	53.3	79.9



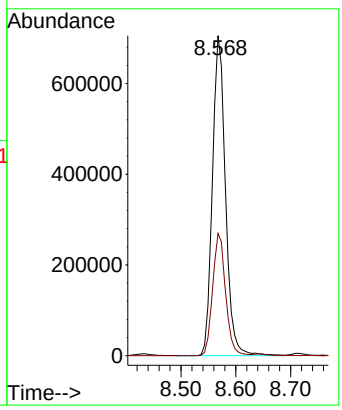


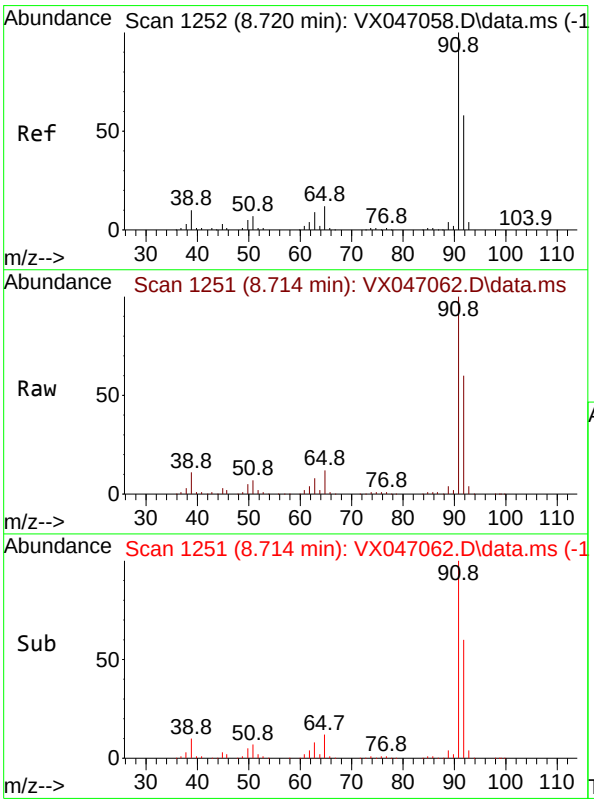
#51
4-Methyl-2-Pentanone
Concen: 217.774 ug/l
RT: 8.568 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 43 Resp: 1164013

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.6	45.8

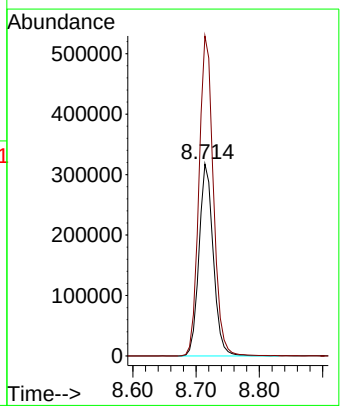


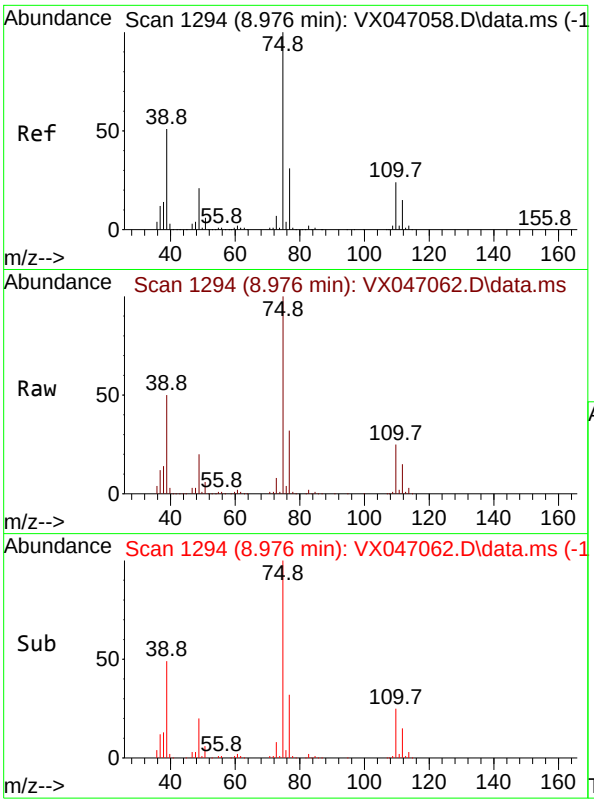


#52
Toluene
Concen: 44.778 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 92 Resp: 498799

Ion	Ratio	Lower	Upper
92	100		
91	168.3	137.9	206.9



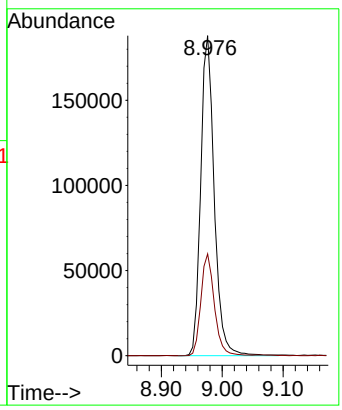


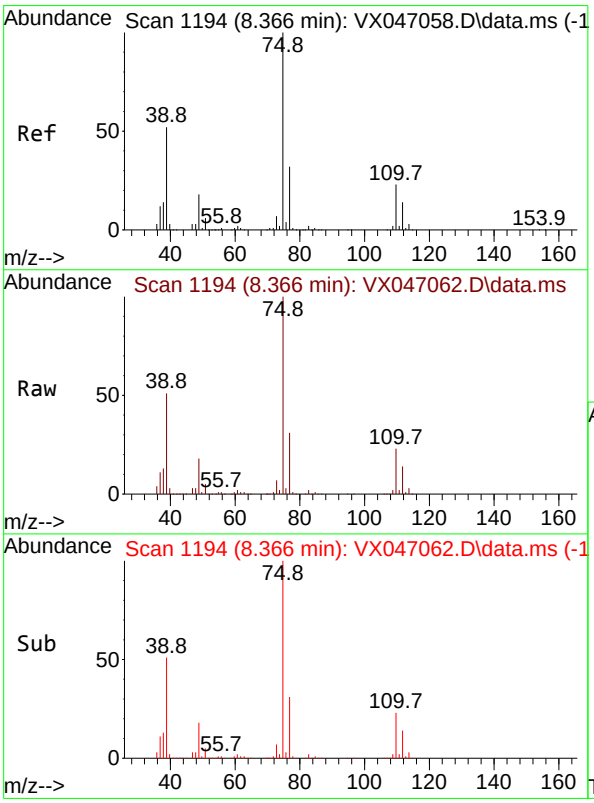
#53
t-1,3-Dichloropropene
Concen: 45.444 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 75 Resp: 290633

Ion	Ratio	Lower	Upper
75	100		
77	31.8	24.5	36.7

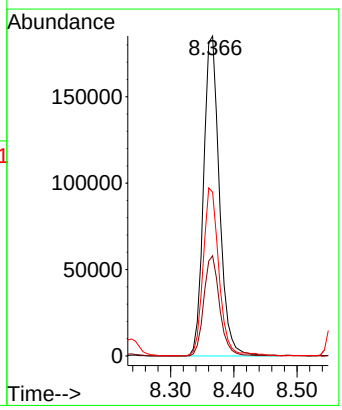


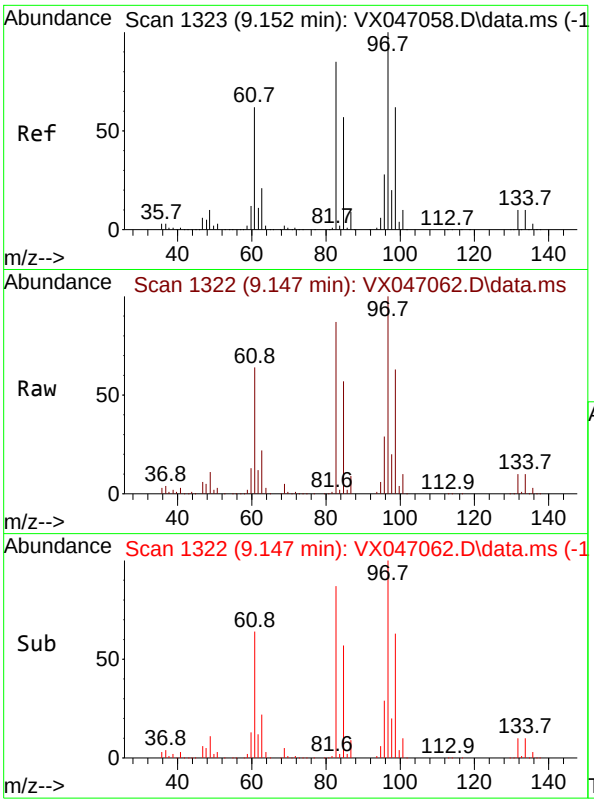


#54
cis-1,3-Dichloropropene
Concen: 46.140 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 75 Resp: 322967

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.4	38.0
39	50.6	41.8	62.6



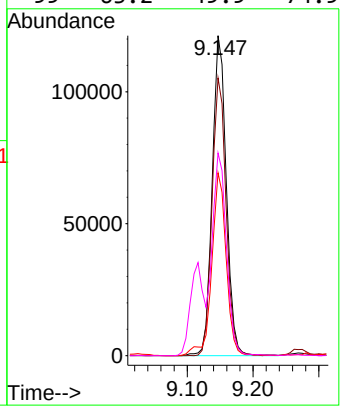


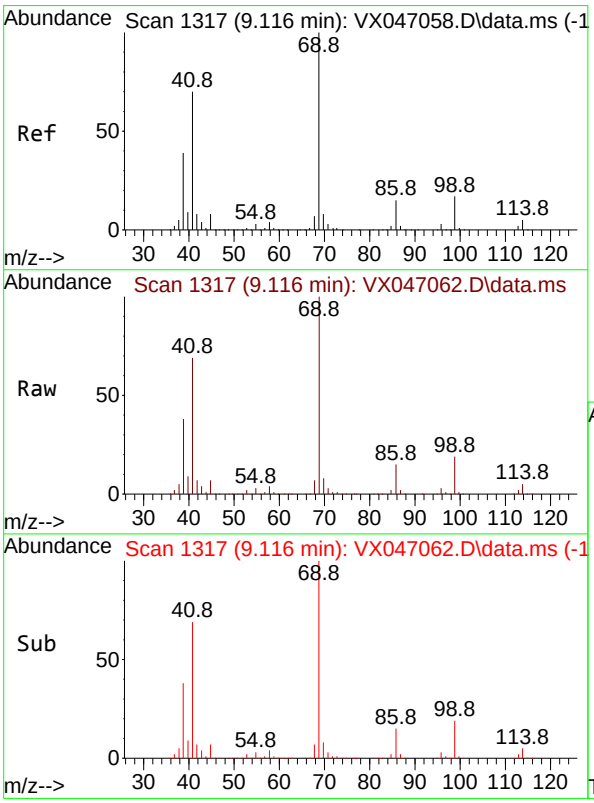
#55
1,1,2-Trichloroethane
Concen: 43.270 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 97 Resp: 180762

Ion	Ratio	Lower	Upper
97	100		
83	86.8	68.0	102.0
85	57.1	45.2	67.8
99	63.2	49.9	74.9

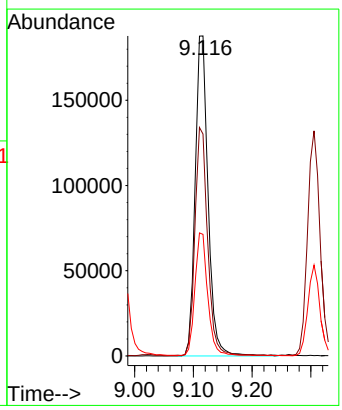


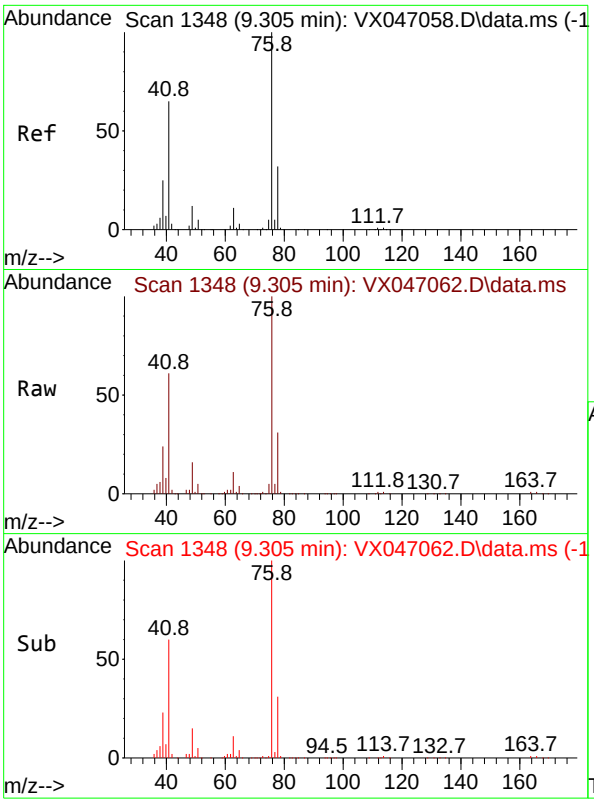


#56
Ethyl methacrylate
Concen: 46.334 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 69 Resp: 286552

Ion	Ratio	Lower	Upper
69	100		
41	70.0	56.1	84.1
39	38.3	31.1	46.7



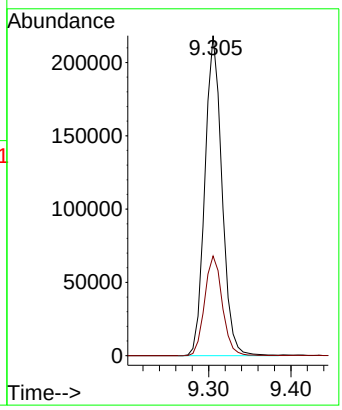


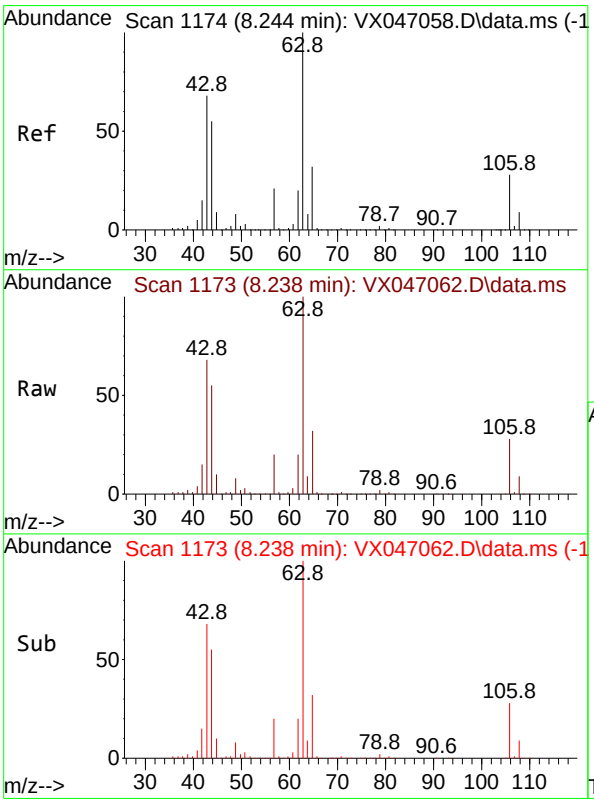
#57
1,3-Dichloropropane
Concen: 43.350 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 76 Resp: 314736

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.5	38.3

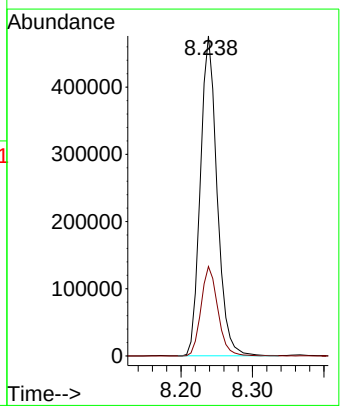


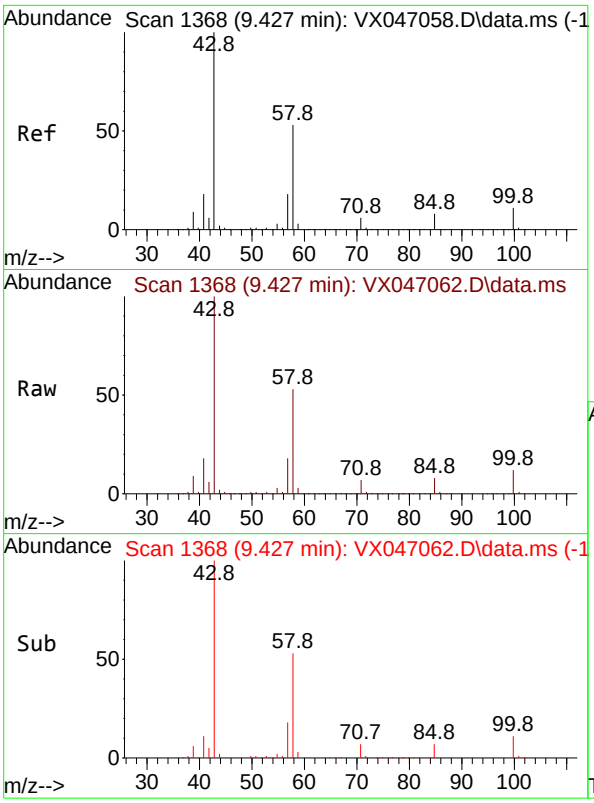


#58
2-Chloroethyl Vinyl ether
Concen: 225.188 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 63 Resp: 774980

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.2	33.4



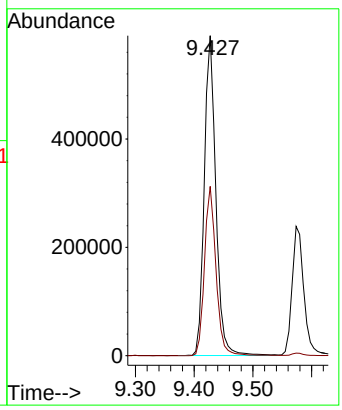


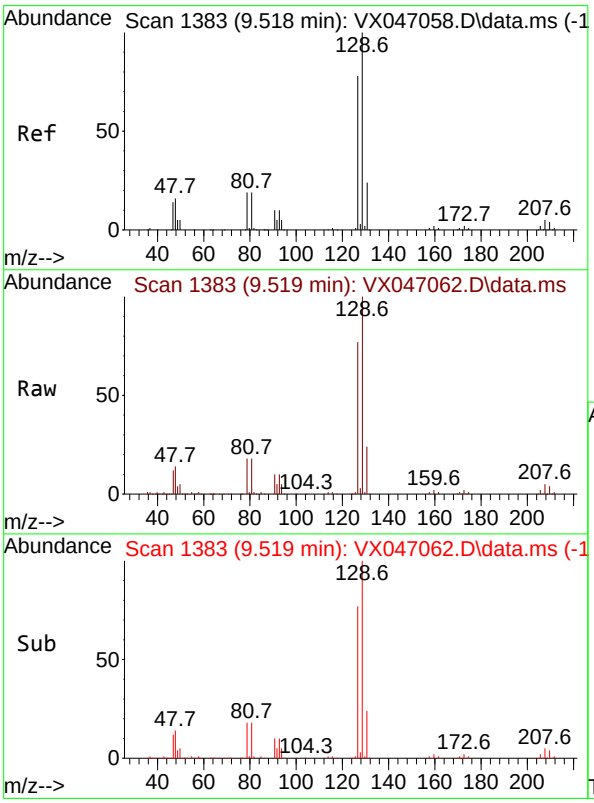
#59
2-Hexanone
Concen: 228.755 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 43 Resp: 807822

Ion	Ratio	Lower	Upper
43	100		
58	52.8	26.5	79.5

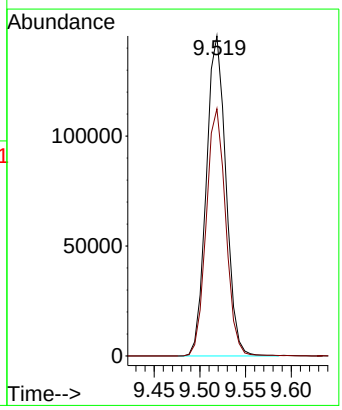


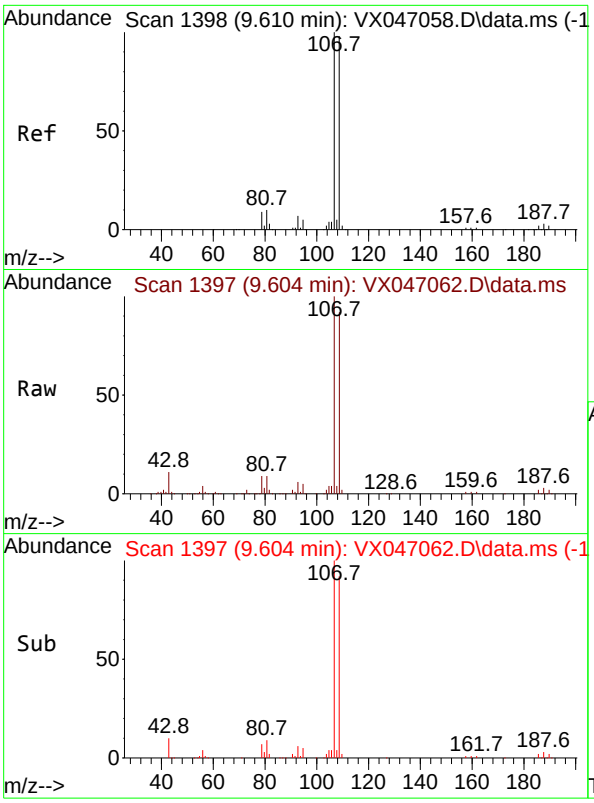


#60
Dibromochloromethane
Concen: 44.239 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:129 Resp: 216749

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.6	115.8



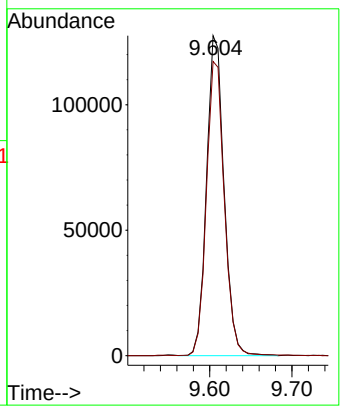


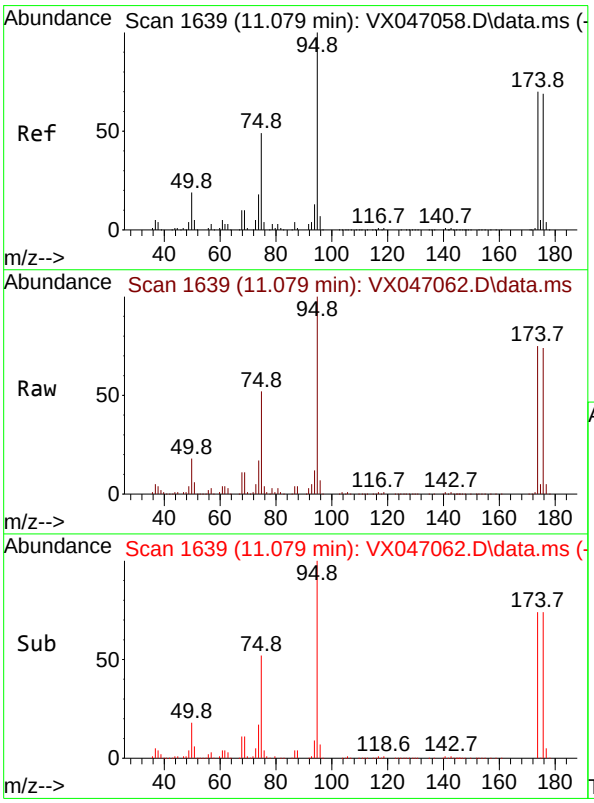
#61
1,2-Dibromoethane
Concen: 43.202 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:107 Resp: 188713

Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.6	112.0

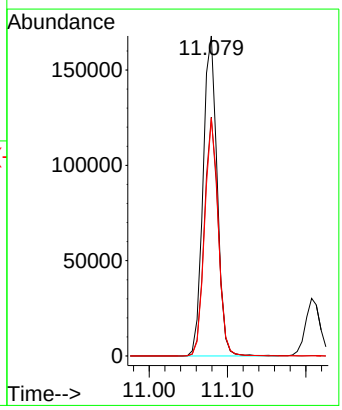


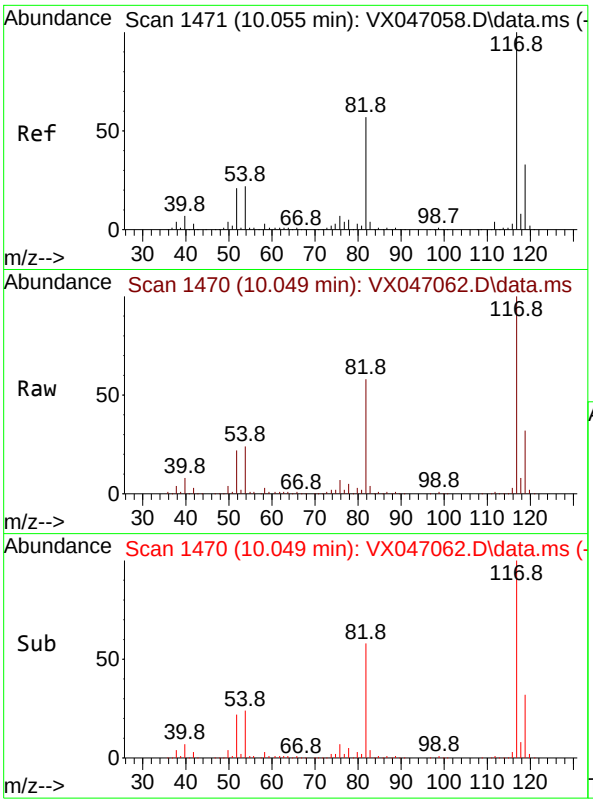


#62
4-Bromofluorobenzene
Concen: 40.779 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 95 Resp: 209003

Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	144.6
176	71.8	0.0	139.6



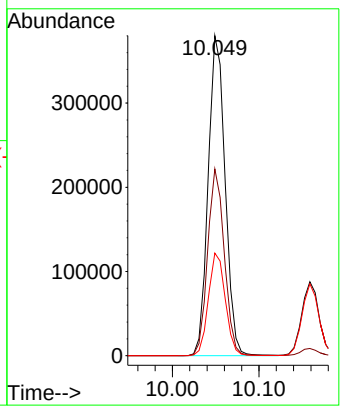


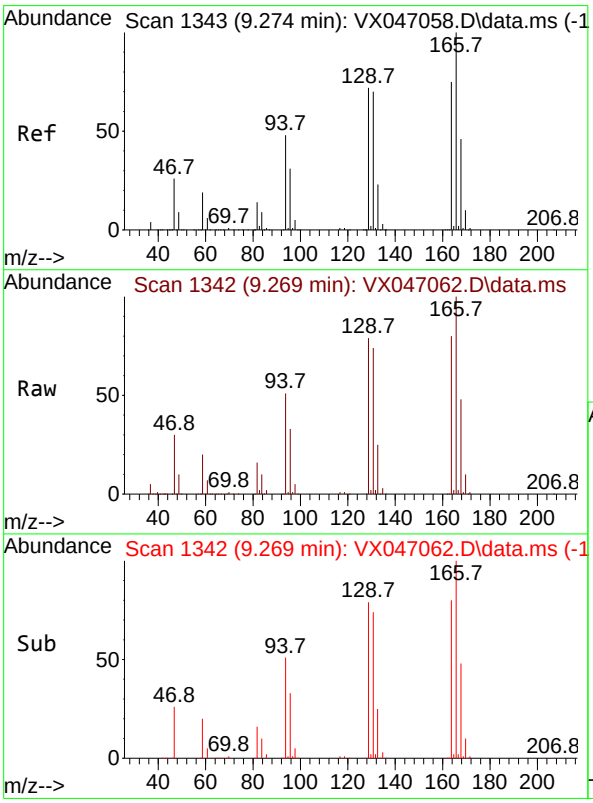
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:117 Resp: 516907

Ion	Ratio	Lower	Upper
117	100		
82	58.4	45.4	68.2
119	32.1	26.1	39.1

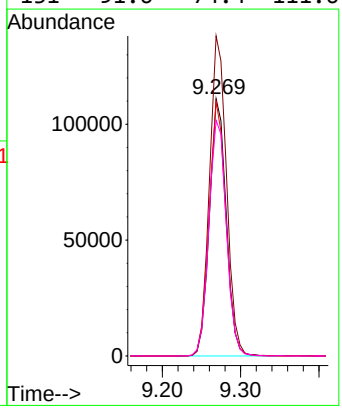


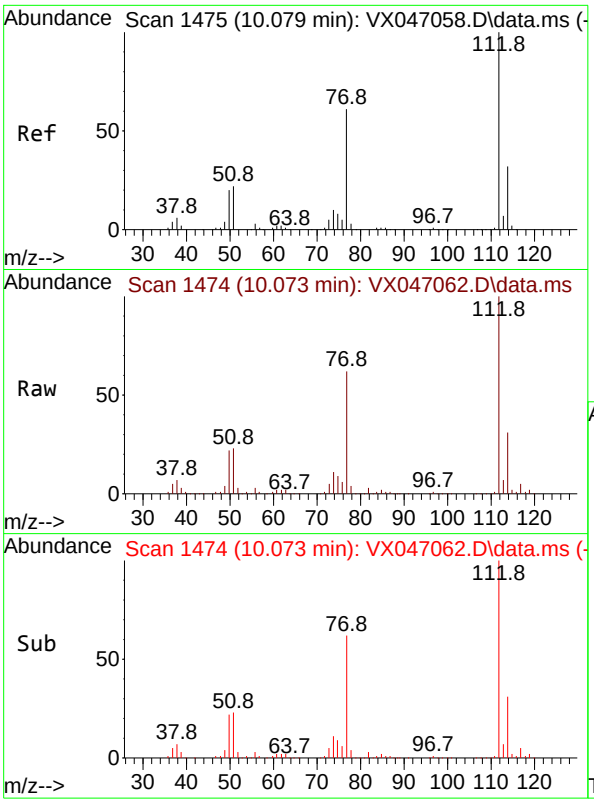


#64
Tetrachloroethene
Concen: 44.131 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:164 Resp: 164447

Ion	Ratio	Lower	Upper
164	100		
166	124.5	106.2	159.4
129	98.9	76.6	114.8
131	91.6	74.4	111.6



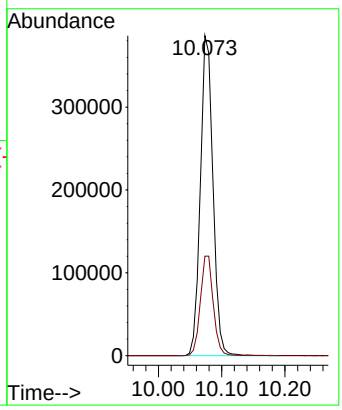


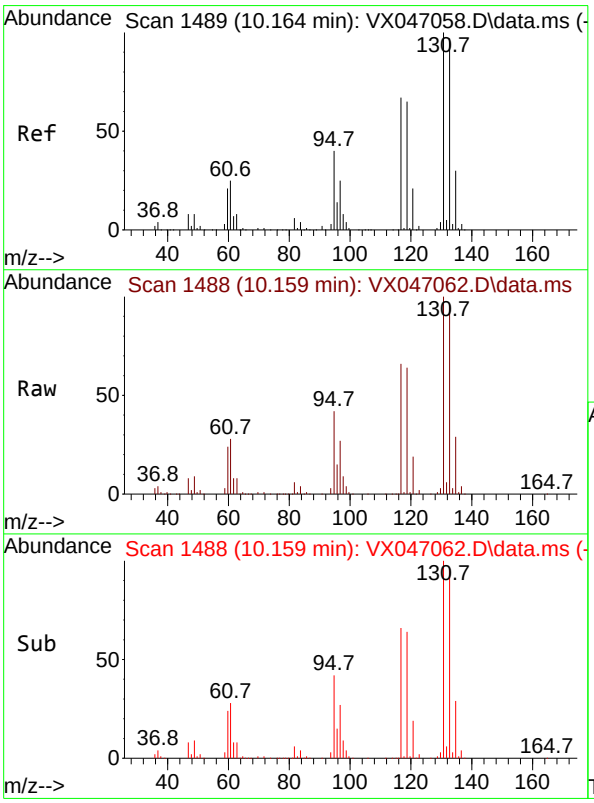
#65
Chlorobenzene
Concen: 44.318 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:112 Resp: 536664

Ion	Ratio	Lower	Upper
112	100		
114	31.1	25.8	38.6

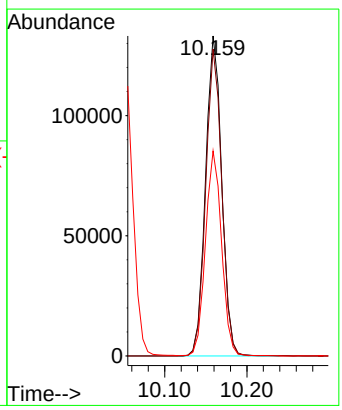


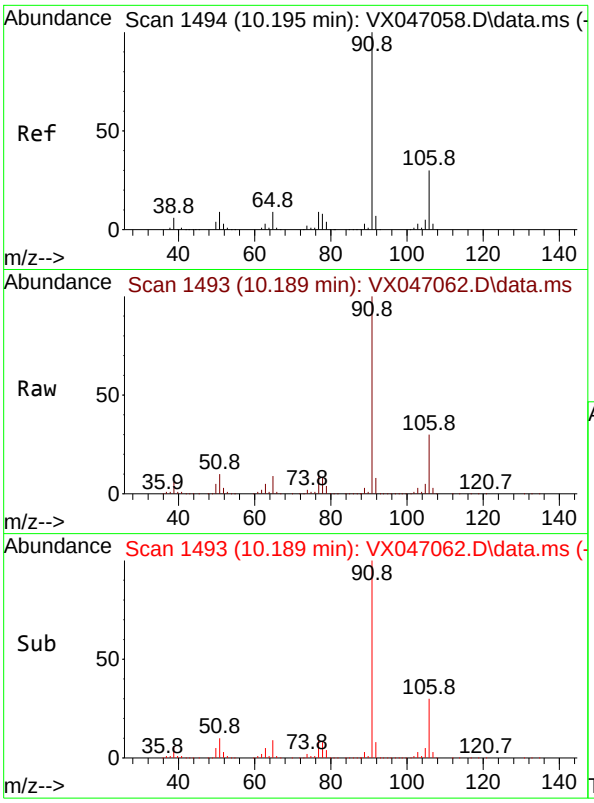


#66
1,1,1,2-Tetrachloroethane
Concen: 44.529 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:131 Resp: 181544

Ion	Ratio	Lower	Upper
131	100		
133	95.3	48.4	145.3
119	63.9	32.4	97.0



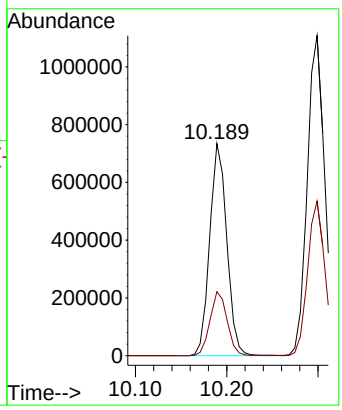


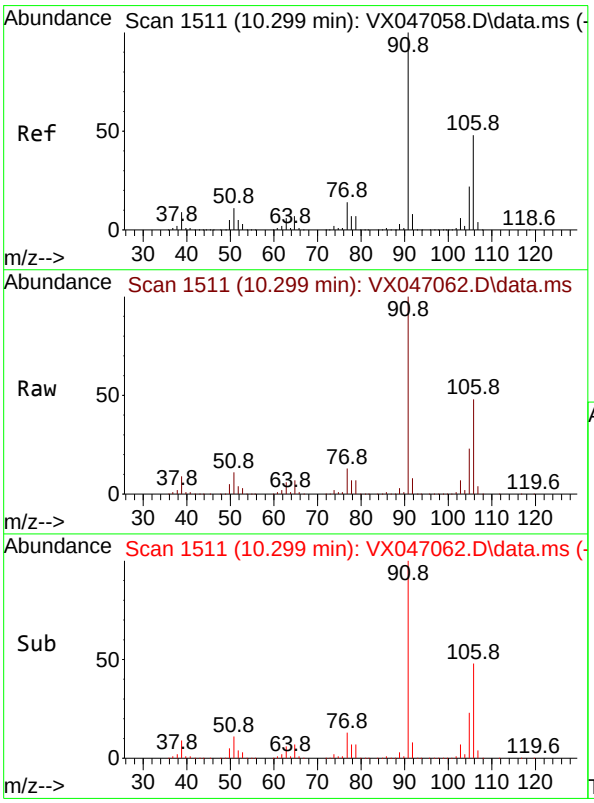
#67
Ethyl Benzene
Concen: 44.977 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 91 Resp: 952288

Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.2	36.4

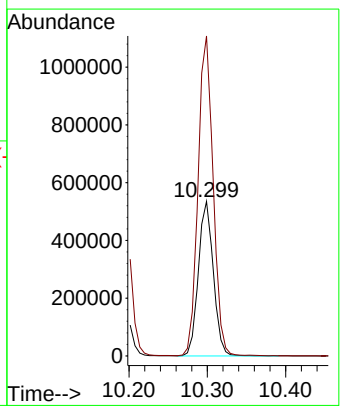


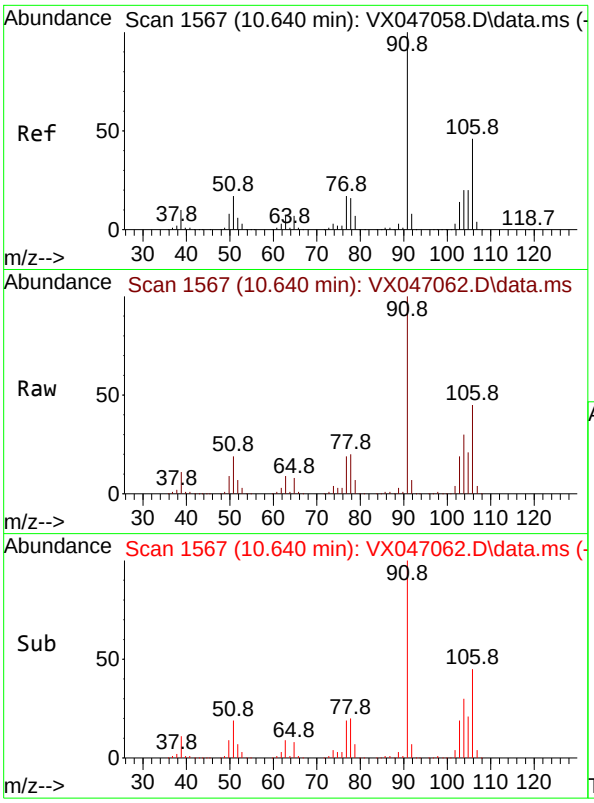


#68
m/p-Xylenes
Concen: 89.564 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:106 Resp: 709639

Ion	Ratio	Lower	Upper
106	100		
91	209.3	167.4	251.0



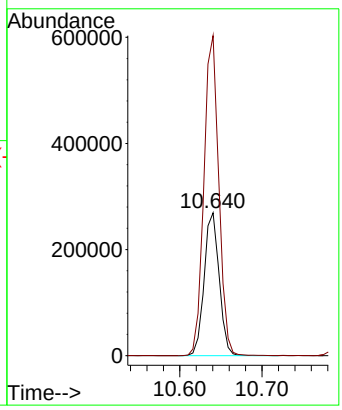


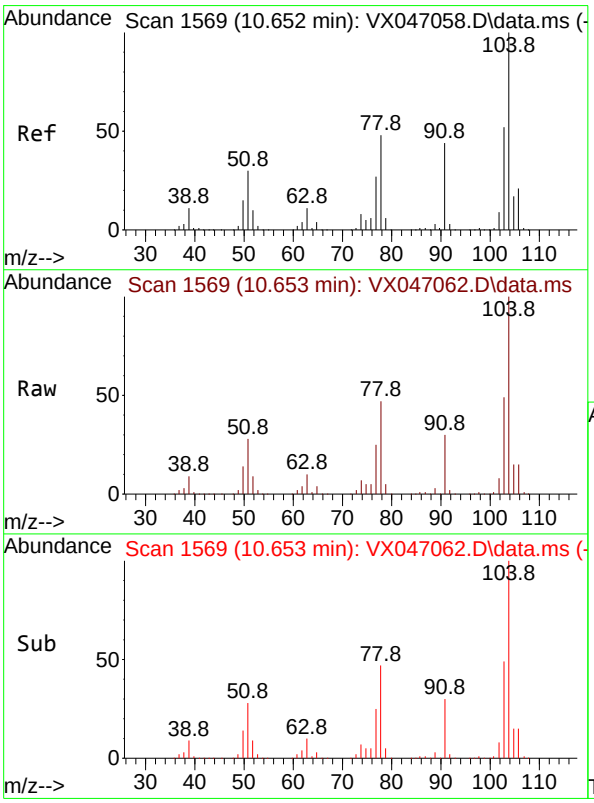
#69
o-Xylene
Concen: 45.328 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:106 Resp: 341662

Ion	Ratio	Lower	Upper
106	100		
91	222.1	110.3	331.0

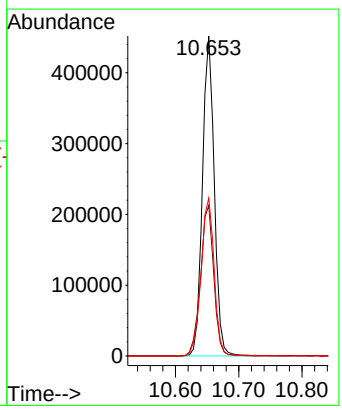


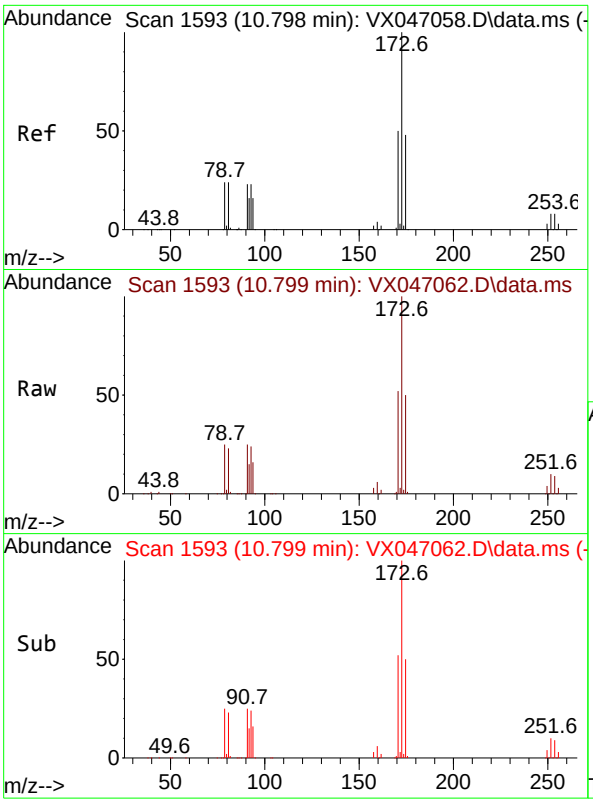


#70
Styrene
Concen: 45.618 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:104 Resp: 589610

Ion	Ratio	Lower	Upper
104	100		
78	52.6	42.0	63.0
103	54.7	43.8	65.6



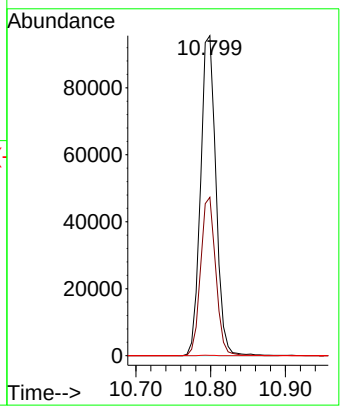


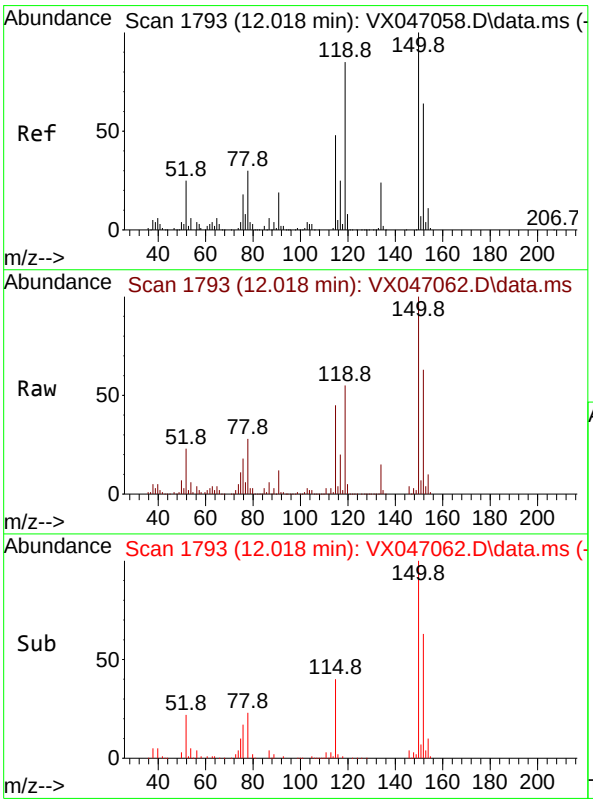
#71
Bromoform
Concen: 44.106 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:173 Resp: 136594

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.2	72.6
254	0.1	0.1	0.1

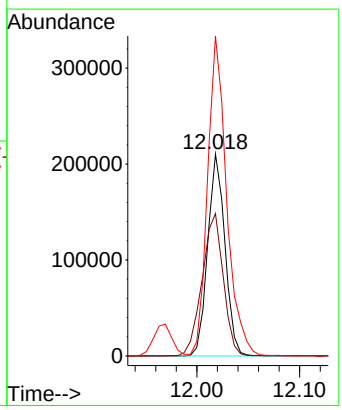


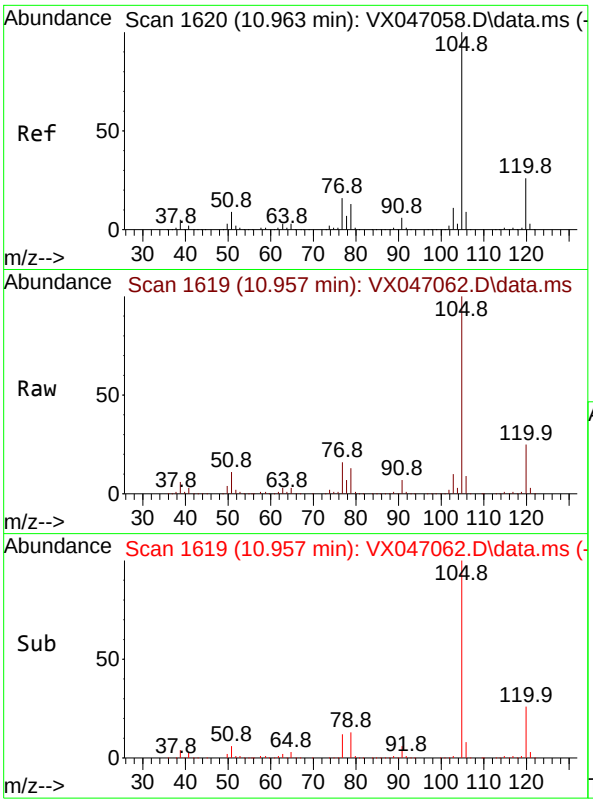


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:152 Resp: 245093

Ion	Ratio	Lower	Upper
152	100		
115	86.9	45.6	136.7
150	175.5	0.0	354.6



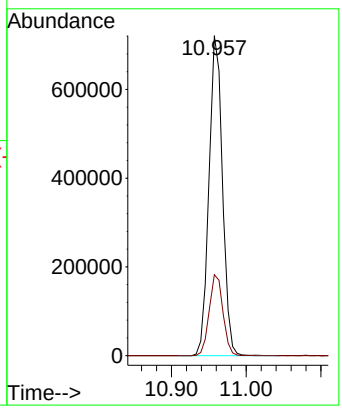


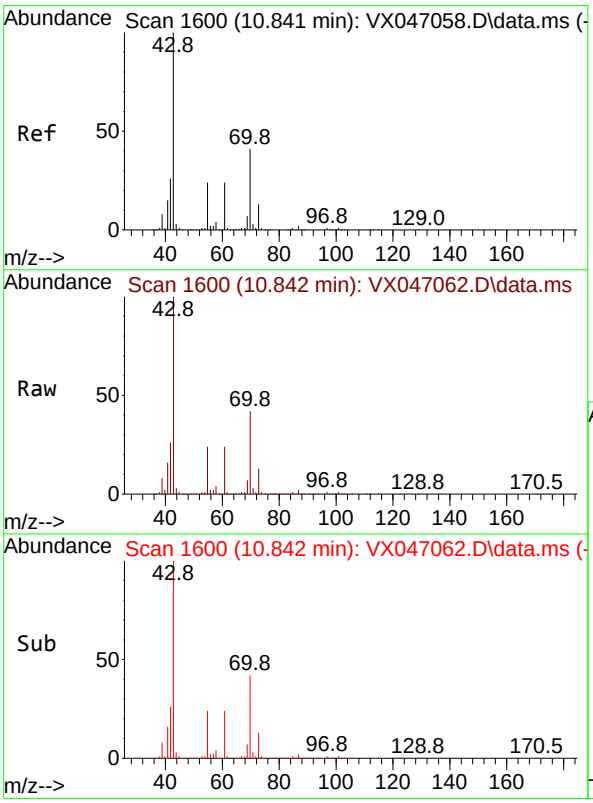
#73
Isopropylbenzene
Concen: 46.708 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:105 Resp: 903154

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.7

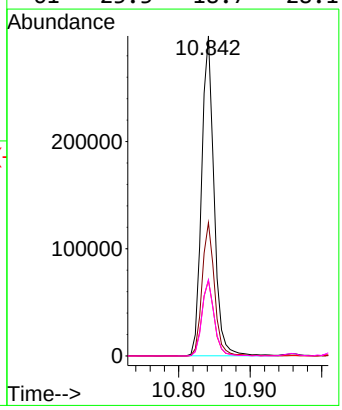


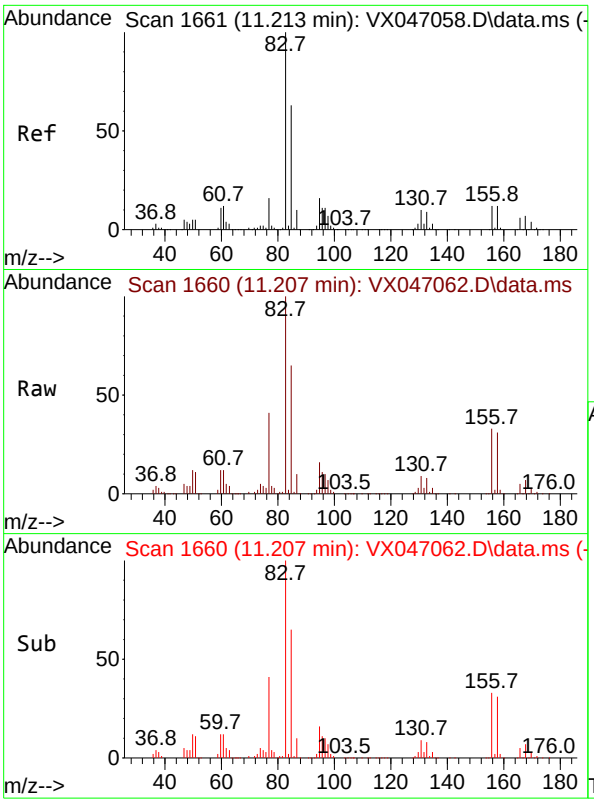


#74
N-amyl acetate
Concen: 46.238 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 43 Resp: 360744

Ion	Ratio	Lower	Upper
43	100		
70	41.5	32.3	48.5
55	23.8	18.9	28.3
61	23.3	18.7	28.1



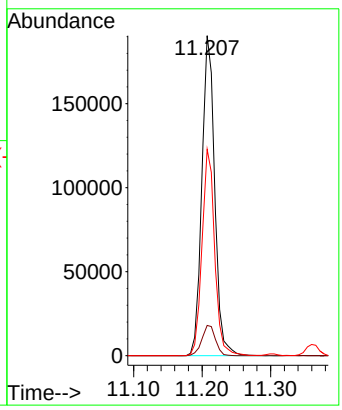


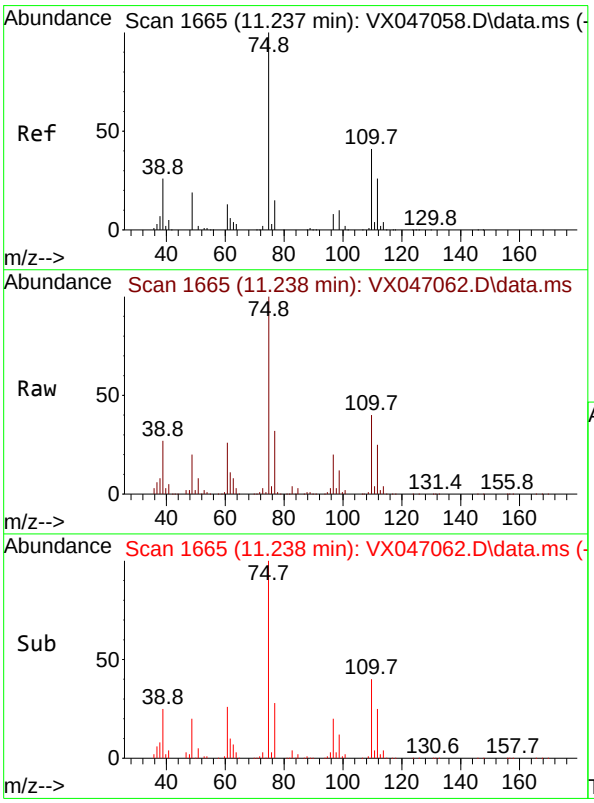
#75
1,1,2,2-Tetrachloroethane
Concen: 45.037 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 83 Resp: 248756

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	63.7	32.0	96.2

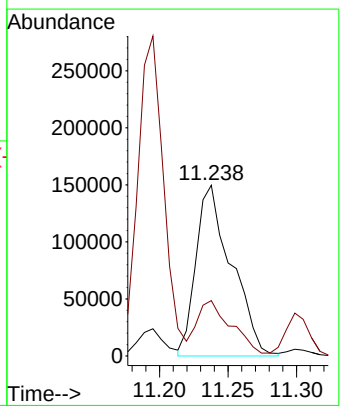


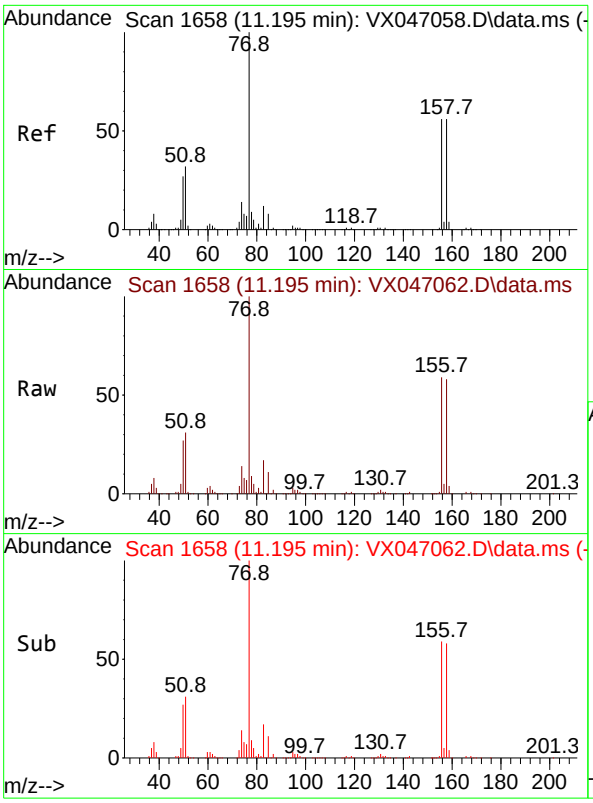


#76
1,2,3-Trichloropropane
Concen: 59.595 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 75 Resp: 270356

Ion	Ratio	Lower	Upper
75	100		
77	31.8	21.6	65.0



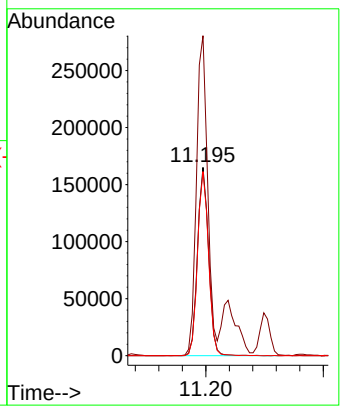


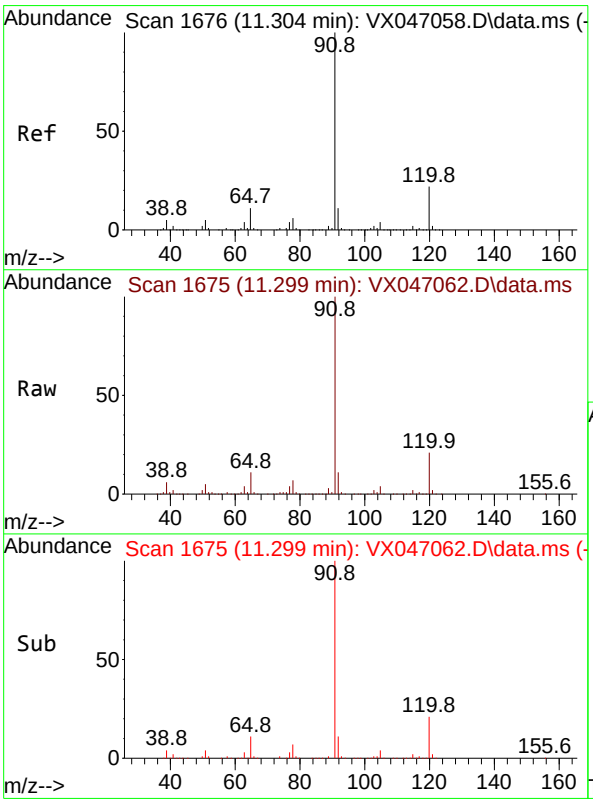
#77
Bromobenzene
Concen: 46.441 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:156 Resp: 215391

Ion	Ratio	Lower	Upper
156	100		
77	171.7	87.3	261.9
158	97.1	48.9	146.6

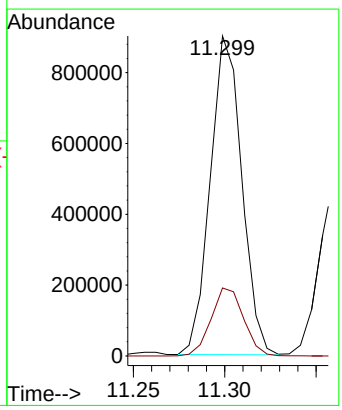


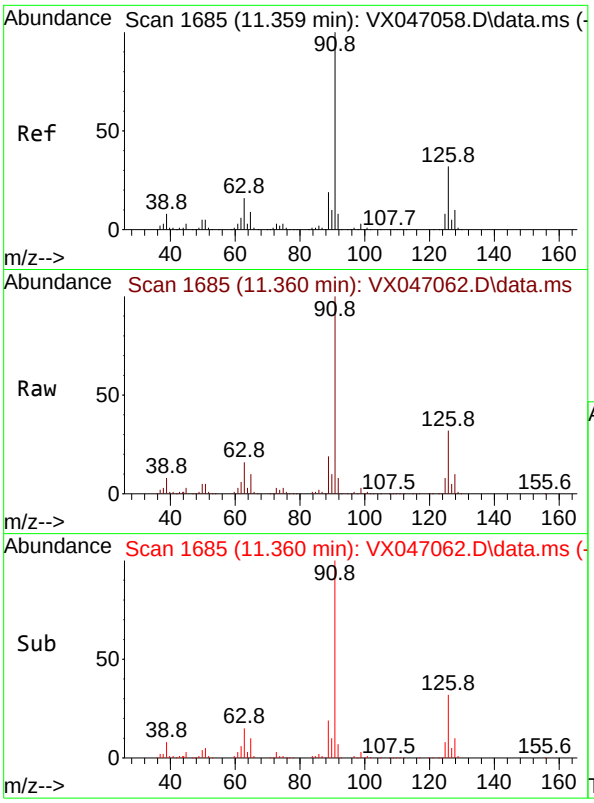


#78
n-propylbenzene
Concen: 46.812 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 91 Resp: 1081658

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0



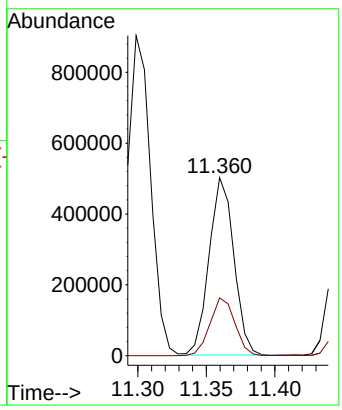


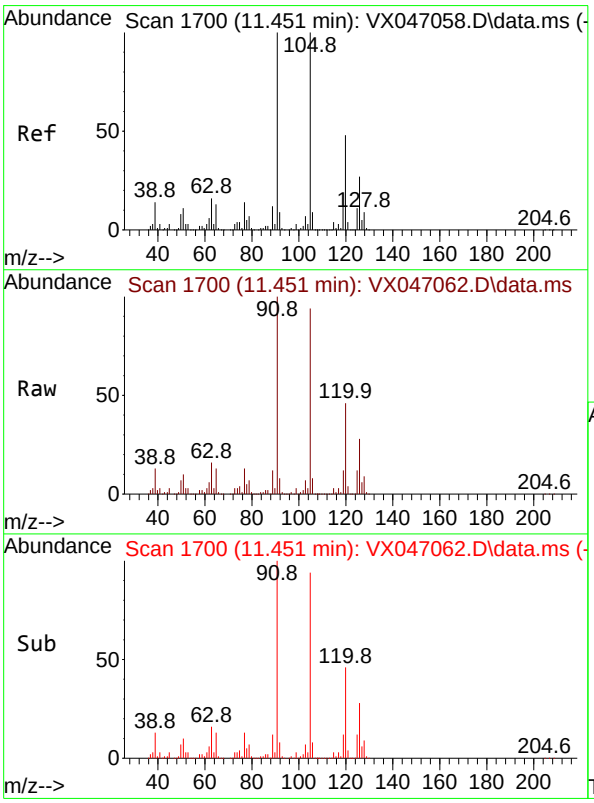
#79
2-Chlorotoluene
Concen: 45.702 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 91 Resp: 631252

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.4	49.4

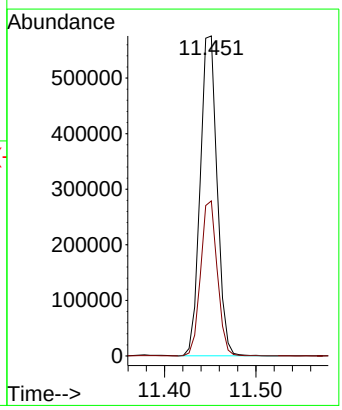


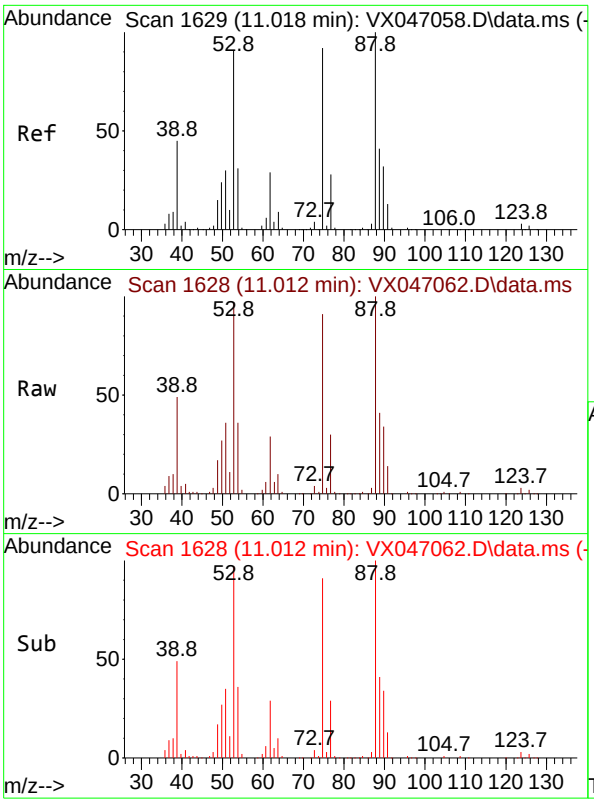


#80
1,3,5-Trimethylbenzene
Concen: 46.187 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:105 Resp: 737827

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.8	71.5



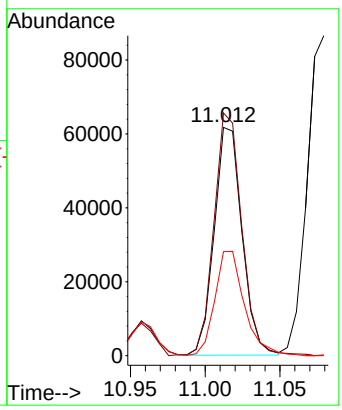


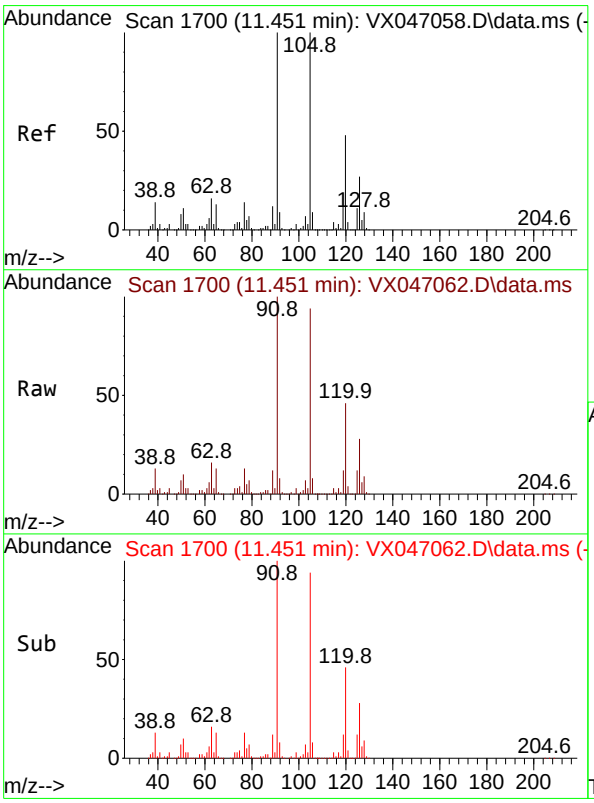
#81
trans-1,4-Dichloro-2-butene
Concen: 45.380 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 75 Resp: 79906

Ion	Ratio	Lower	Upper
75	100		
53	106.6	84.2	126.4
89	48.7	36.0	54.0

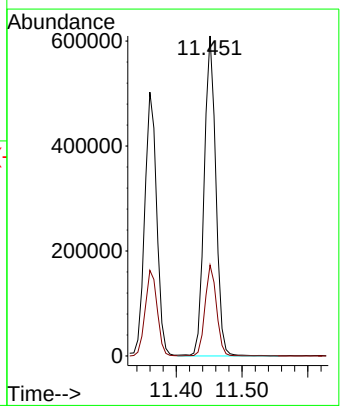


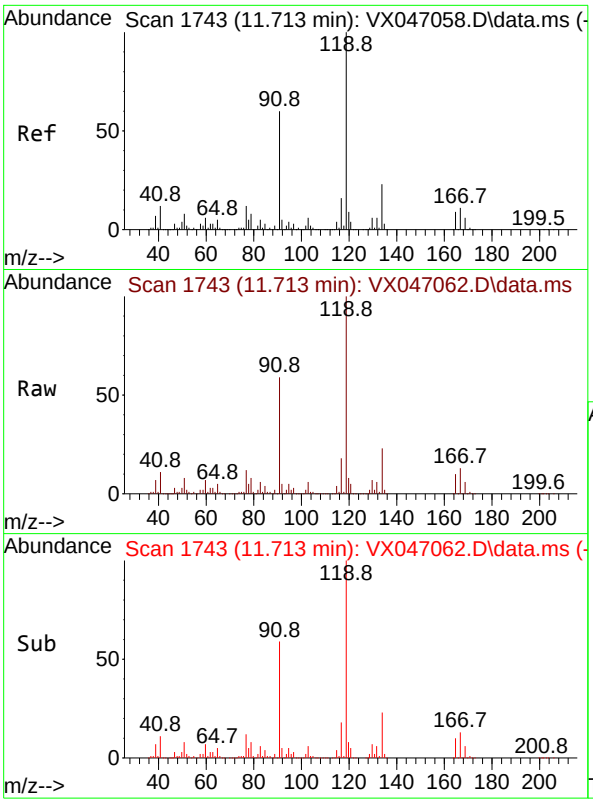


#82
4-Chlorotoluene
Concen: 46.476 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 91 Resp: 749299

Ion	Ratio	Lower	Upper
91	100		
126	27.9	14.1	42.3



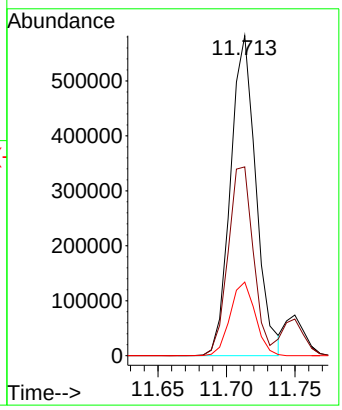


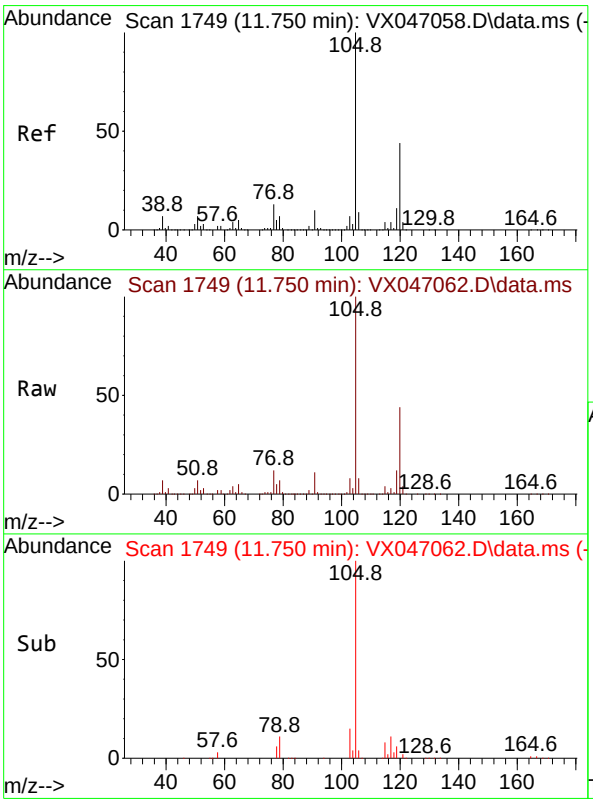
#83
tert-Butylbenzene
Concen: 46.942 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:119 Resp: 752650

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.7	11.4	34.1

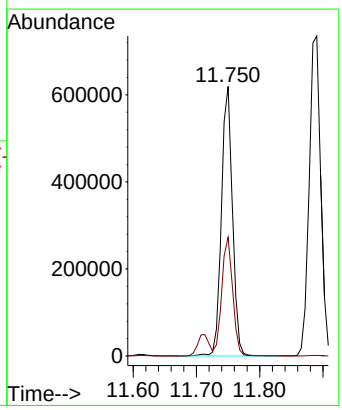


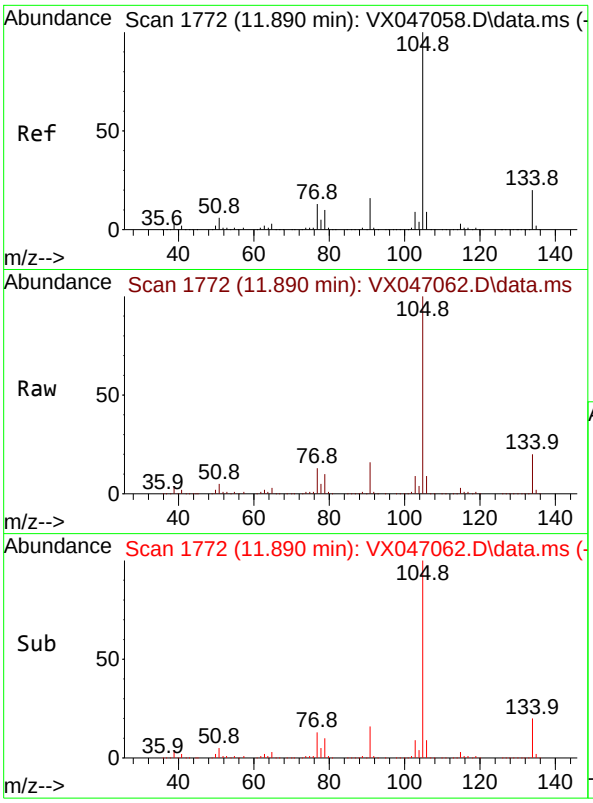


#84
1,2,4-Trimethylbenzene
Concen: 46.741 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:105 Resp: 744757

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.0	66.0



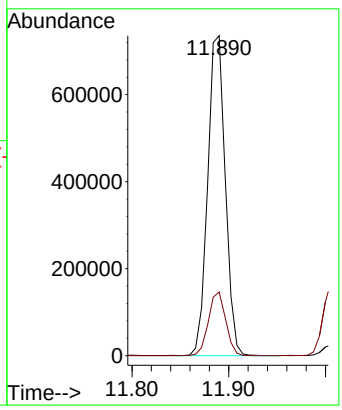


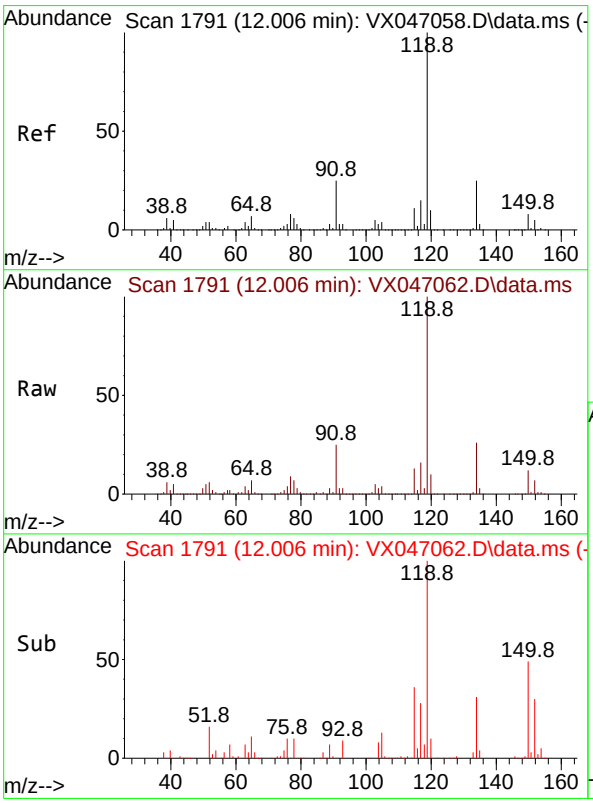
#85
sec-Butylbenzene
Concen: 46.632 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:105 Resp: 934198

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.9	29.7

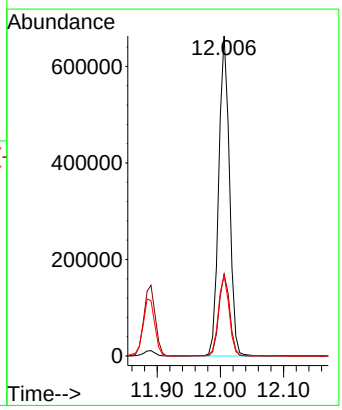


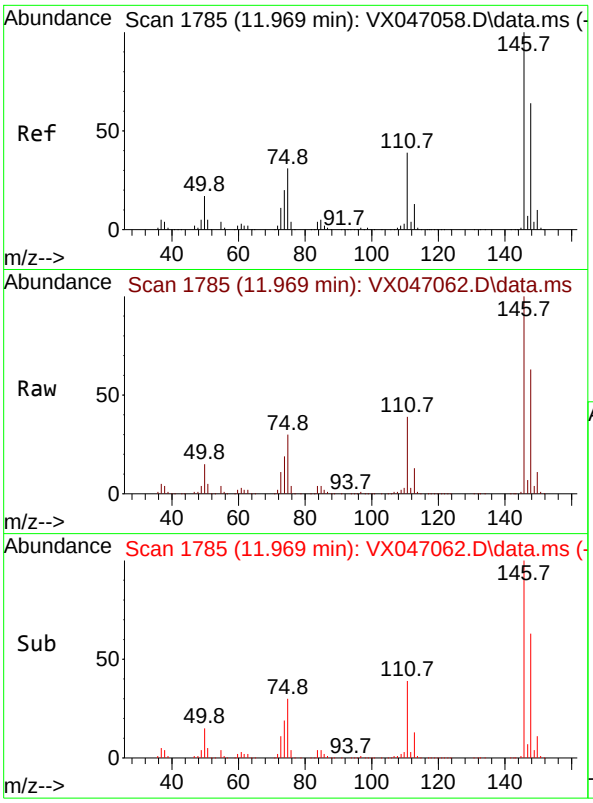


#86
p-Isopropyltoluene
Concen: 46.560 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:119 Resp: 773508

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.8	38.4
91	25.2	12.4	37.4



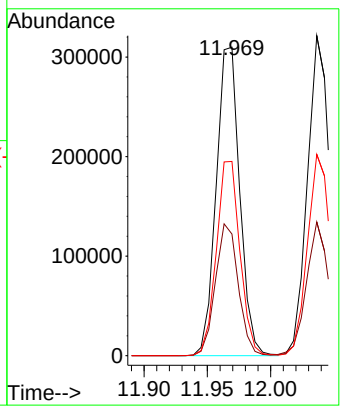


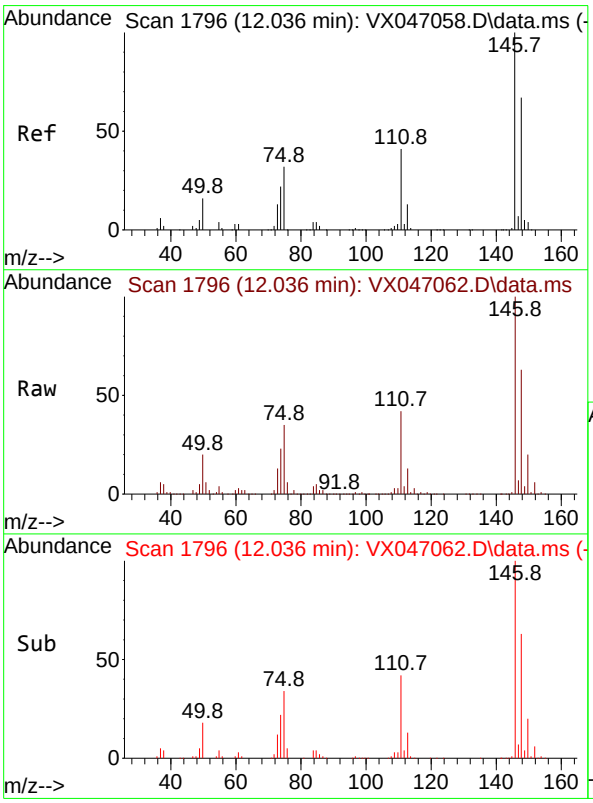
#87
1,3-Dichlorobenzene
Concen: 45.450 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:146 Resp: 400520

Ion	Ratio	Lower	Upper
146	100		
111	41.7	21.0	63.0
148	63.2	32.0	96.0

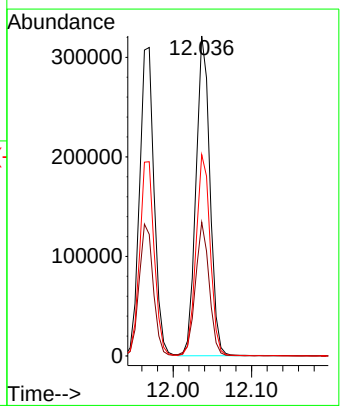


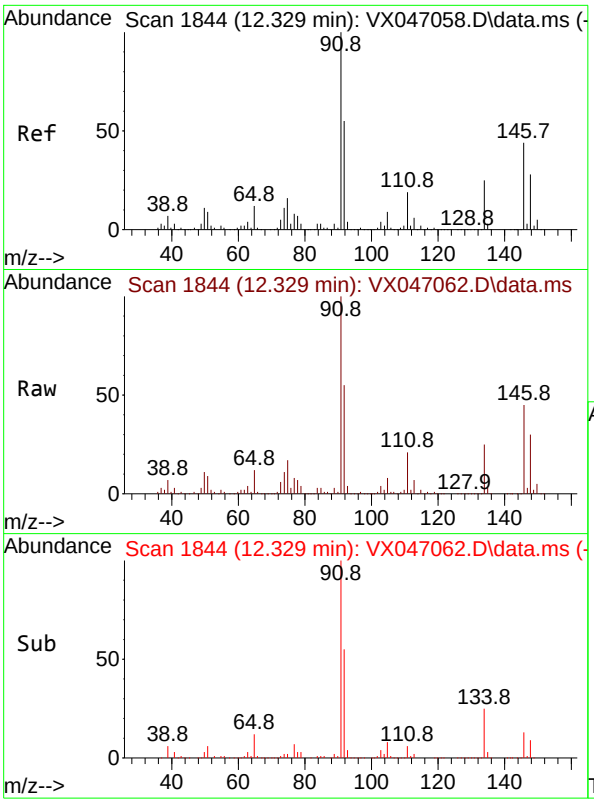


#88
1,4-Dichlorobenzene
Concen: 44.634 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:146 Resp: 398497

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.6	61.9
148	63.9	33.0	98.9



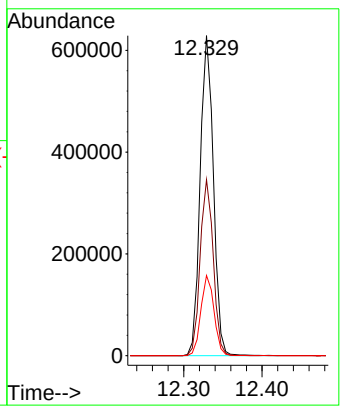


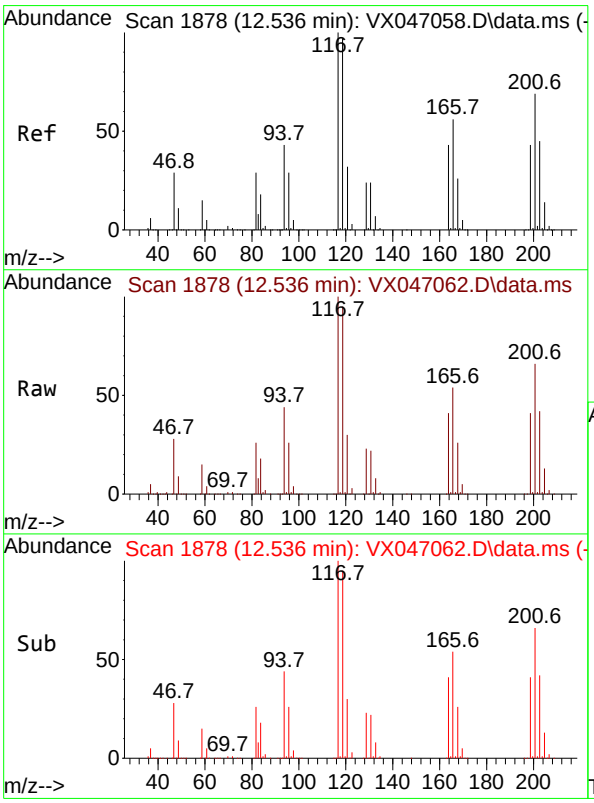
#89
n-Butylbenzene
Concen: 47.201 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion: 91 Resp: 735386

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.5	82.5
134	25.0	12.8	38.3

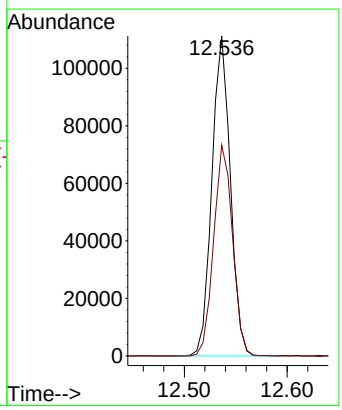


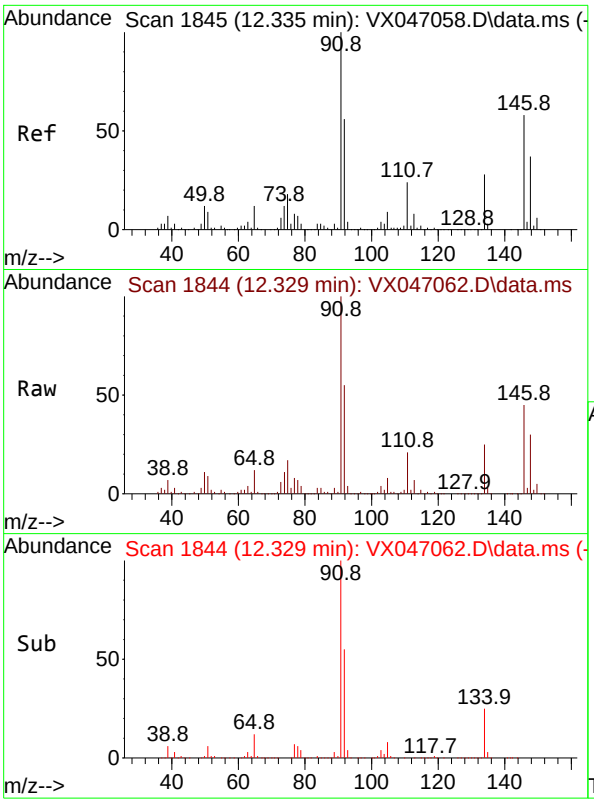


#90
Hexachloroethane
Concen: 46.667 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:117 Resp: 138697

Ion	Ratio	Lower	Upper
117	100		
201	67.6	34.8	104.5



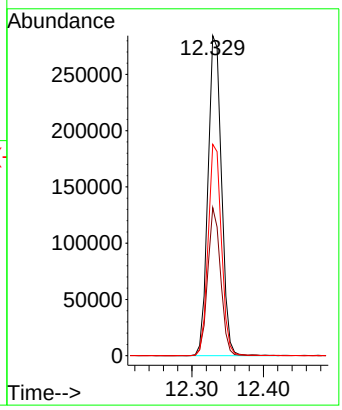


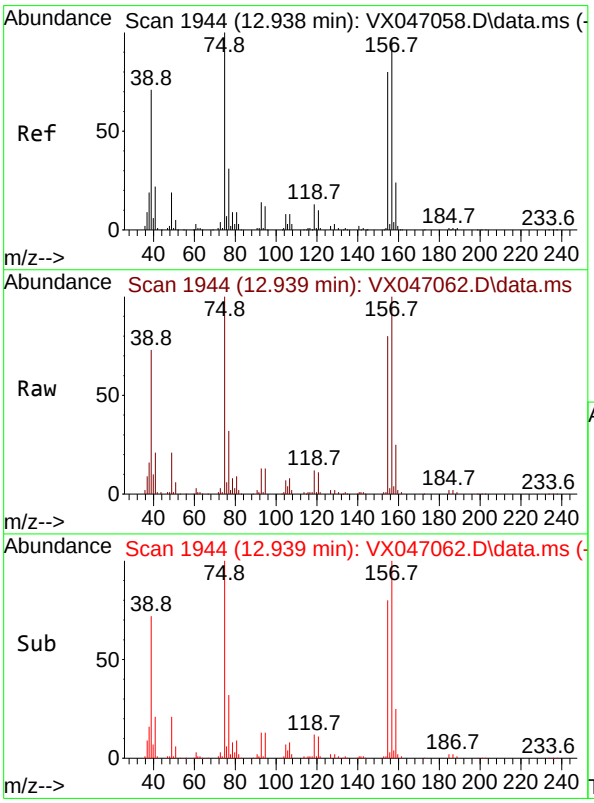
#91
1,2-Dichlorobenzene
Concen: 44.320 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:146 Resp: 373286

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.6	64.6
148	64.9	31.9	95.7

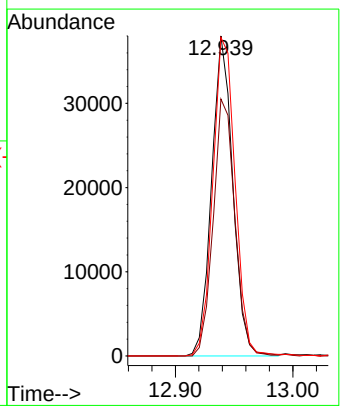


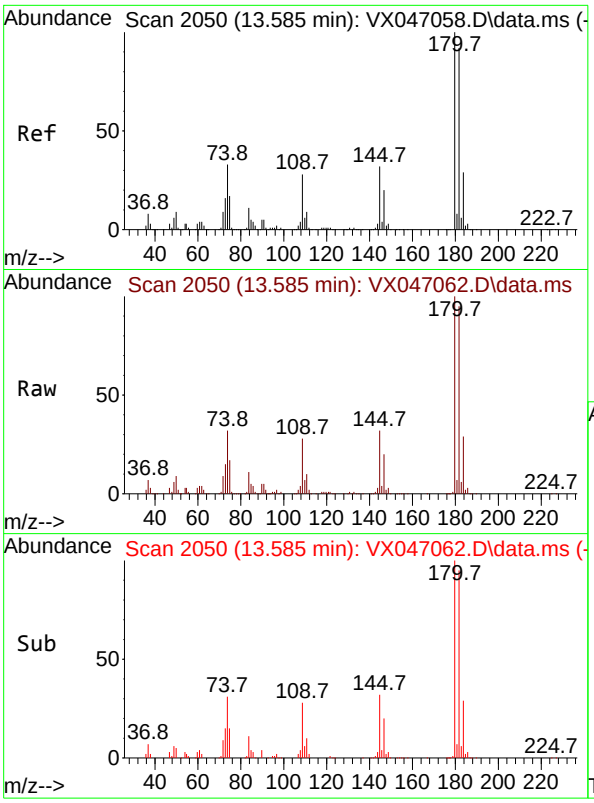


#92
1,2-Dibromo-3-Chloropropane
Concen: 44.904 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion: 75 Resp: 47608

Ion	Ratio	Lower	Upper
75	100		
155	82.0	41.3	124.1
157	105.2	52.8	158.3



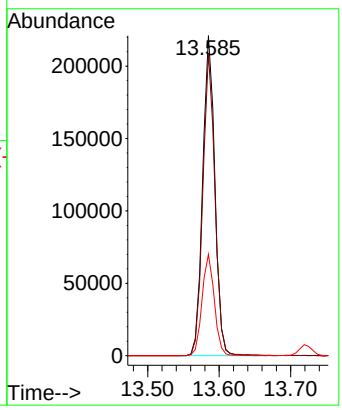


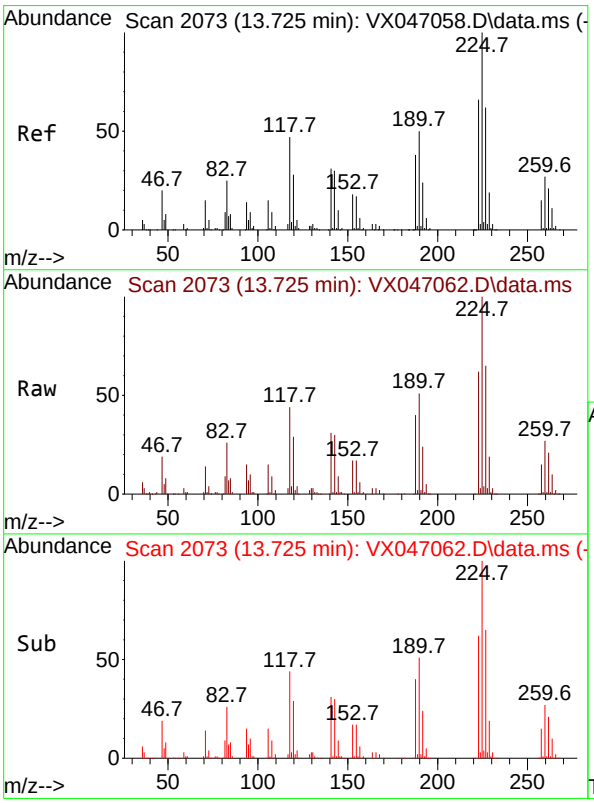
#93
1,2,4-Trichlorobenzene
Concen: 46.990 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:180 Resp: 261487

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.3	141.8
145	31.9	16.4	49.1

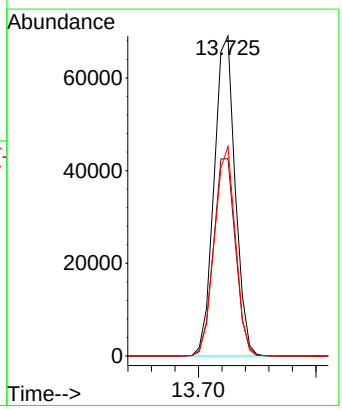


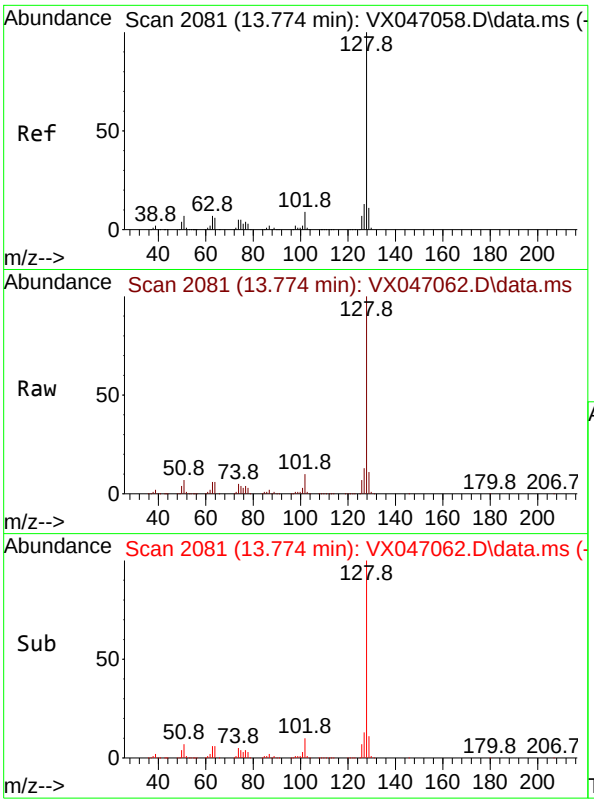


#94
Hexachlorobutadiene
Concen: 45.502 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:225 Resp: 86113

Ion	Ratio	Lower	Upper
225	100		
223	64.6	31.6	95.0
227	65.3	32.9	98.6



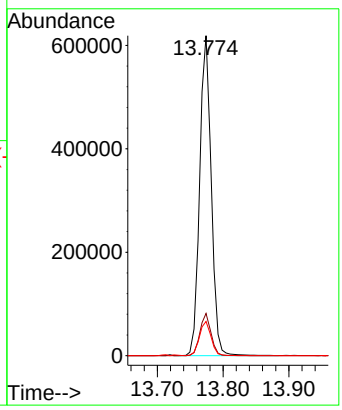


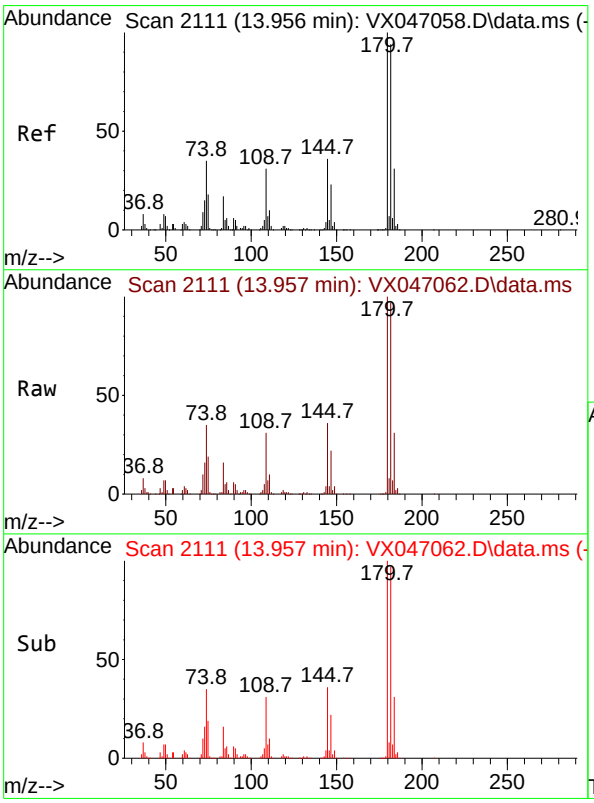
#95
Naphthalene
Concen: 46.304 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
ICVVX072125

Tgt Ion:128 Resp: 755367

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	10.7	8.6	13.0

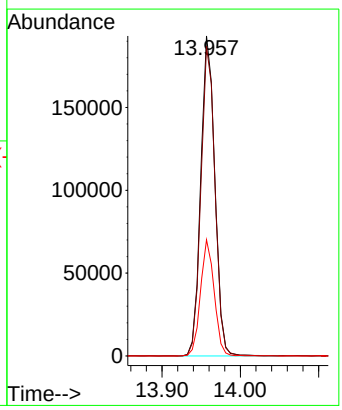




#96
1,2,3-Trichlorobenzene
Concen: 44.980 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047062.D
Acq: 21 Jul 2025 13:17

Tgt Ion:180 Resp: 241137

Ion	Ratio	Lower	Upper
180	100		
182	96.6	46.9	140.6
145	35.3	17.3	52.0



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	202458	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	343367	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	311895	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	156059	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	122913	48.737	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 97.480%			
35) Dibromofluoromethane	5.391	113	109453	51.627	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.260%			
50) Toluene-d8	8.647	98	302023	43.990	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 87.980%#			
62) 4-Bromofluorobenzene	11.079	95	146951	49.666	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.340%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	138397	51.465	ug/l	99
3) Chloromethane	1.313	50	123447	46.408	ug/l	97
4) Vinyl Chloride	1.392	62	146166	51.117	ug/l	100
5) Bromomethane	1.624	94	78964	50.837	ug/l	99
6) Chloroethane	1.703	64	89071	47.427	ug/l	99
7) Trichlorofluoromethane	1.904	101	215625	50.571	ug/l	99
8) Diethyl Ether	2.148	74	81402	54.146	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.343	101	126773	49.350	ug/l	98
10) Methyl Iodide	2.465	142	219512	83.845	ug/l	100
11) Tert butyl alcohol	2.965	59	78261	266.119	ug/l	100
12) 1,1-Dichloroethene	2.331	96	127051	49.935	ug/l	98
13) Acrolein	2.245	56	211272	389.062	ug/l	99
14) Allyl chloride	2.678	41	227152	49.389	ug/l	97
15) Acrylonitrile	3.074	53	336877	280.076	ug/l	98
16) Acetone	2.386	43	294865	291.855	ug/l	100
17) Carbon Disulfide	2.526	76	347209	47.171	ug/l	98
18) Methyl Acetate	2.709	43	164668	61.331	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	428882	55.387	ug/l	99
20) Methylene Chloride	2.800	84	144651	52.043	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	133319	51.205	ug/l	98
22) Diisopropyl ether	3.769	45	474294	53.638	ug/l	93
23) Vinyl Acetate	3.727	43	1966349	277.255	ug/l	100
24) 1,1-Dichloroethane	3.617	63	249579	50.758	ug/l	98
25) 2-Butanone	4.562	43	379836	258.198	ug/l	97
26) 2,2-Dichloropropane	4.483	77	191107	50.208	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	161308	52.320	ug/l	98
28) Bromochloromethane	4.903	49	121750	53.820	ug/l	98
29) Tetrahydrofuran	5.013	42	237647	250.372	ug/l	99
30) Chloroform	5.099	83	258046	51.555	ug/l	98
31) Cyclohexane	5.476	56	218449	46.334	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	218773	50.322	ug/l	100
36) 1,1-Dichloropropene	5.702	75	174512	48.290	ug/l	99
37) Ethyl Acetate	4.721	43	192890	57.925	ug/l	96
38) Carbon Tetrachloride	5.684	117	186156	48.263	ug/l	99
39) Methylcyclohexane	7.379	83	207402	45.966	ug/l	99
40) Benzene	6.043	78	533739	51.034	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.928	41	89952	51.663 ug/l		95
42) 1,2-Dichloroethane	6.092	62	198218	53.804 ug/l		99
43) Isopropyl Acetate	6.342	43	287722	55.423 ug/l		98
44) Trichloroethene	7.129	130	133465	49.765 ug/l		99
45) 1,2-Dichloropropane	7.427	63	135914	51.888 ug/l		97
46) Dibromomethane	7.580	93	101172	55.078 ug/l		100
47) Bromodichloromethane	7.818	83	208211	53.254 ug/l		98
48) Methyl methacrylate	7.696	41	149404	52.829 ug/l		98
49) 1,4-Dioxane	7.677	88	33534	1042.543 ug/l		94
51) 4-Methyl-2-Pentanone	8.573	43	845831	274.116 ug/l		99
52) Toluene	8.720	92	331807	51.598 ug/l		98
53) t-1,3-Dichloropropene	8.976	75	192983	52.270 ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	211833	52.423 ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	131934	54.707 ug/l		98
56) Ethyl methacrylate	9.116	69	202090	56.604 ug/l		99
57) 1,3-Dichloropropane	9.305	76	225882	53.892 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	507677	255.533 ug/l		100
59) 2-Hexanone	9.427	43	591849	290.316 ug/l		100
60) Dibromochloromethane	9.518	129	153681	54.334 ug/l		100
61) 1,2-Dibromoethane	9.610	107	136881	54.281 ug/l		98
64) Tetrachloroethene	9.275	164	108938	48.451 ug/l		98
65) Chlorobenzene	10.079	112	369251	50.536 ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	130021	52.854 ug/l		98
67) Ethyl Benzene	10.189	91	640387	50.127 ug/l		100
68) m/p-Xylenes	10.299	106	481905	100.800 ug/l		100
69) o-Xylene	10.640	106	232501	51.121 ug/l		100
70) Styrene	10.652	104	404384	51.852 ug/l		100
71) Bromoform	10.799	173	101111	54.108 ug/l	#	99
73) Isopropylbenzene	10.957	105	601920	48.889 ug/l		100
74) N-amyl acetate	10.841	43	253569	51.043 ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	184802	52.547 ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	181616	62.874 ug/l		82
77) Bromobenzene	11.195	156	149595	50.657 ug/l		98
78) n-propylbenzene	11.299	91	717788	48.787 ug/l		99
79) 2-Chlorotoluene	11.360	91	429105	48.791 ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	502646	49.416 ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	30072	26.822 ug/l		98
82) 4-Chlorotoluene	11.451	91	509422	49.625 ug/l		99
83) tert-Butylbenzene	11.713	119	499240	48.901 ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	503767	49.654 ug/l		100
85) sec-Butylbenzene	11.890	105	607529	47.627 ug/l		99
86) p-Isopropyltoluene	12.006	119	513359	48.530 ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	281606	50.187 ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	276736	48.680 ug/l		99
89) n-Butylbenzene	12.329	91	467854	47.162 ug/l		99
90) Hexachloroethane	12.536	117	92640	48.954 ug/l		98
91) 1,2-Dichlorobenzene	12.329	146	266592	49.711 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	36183	53.598 ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	176813	49.902 ug/l		99
94) Hexachlorobutadiene	13.719	225	56288	46.711 ug/l		99
95) Naphthalene	13.774	128	537872	51.782 ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	168763	49.440 ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

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

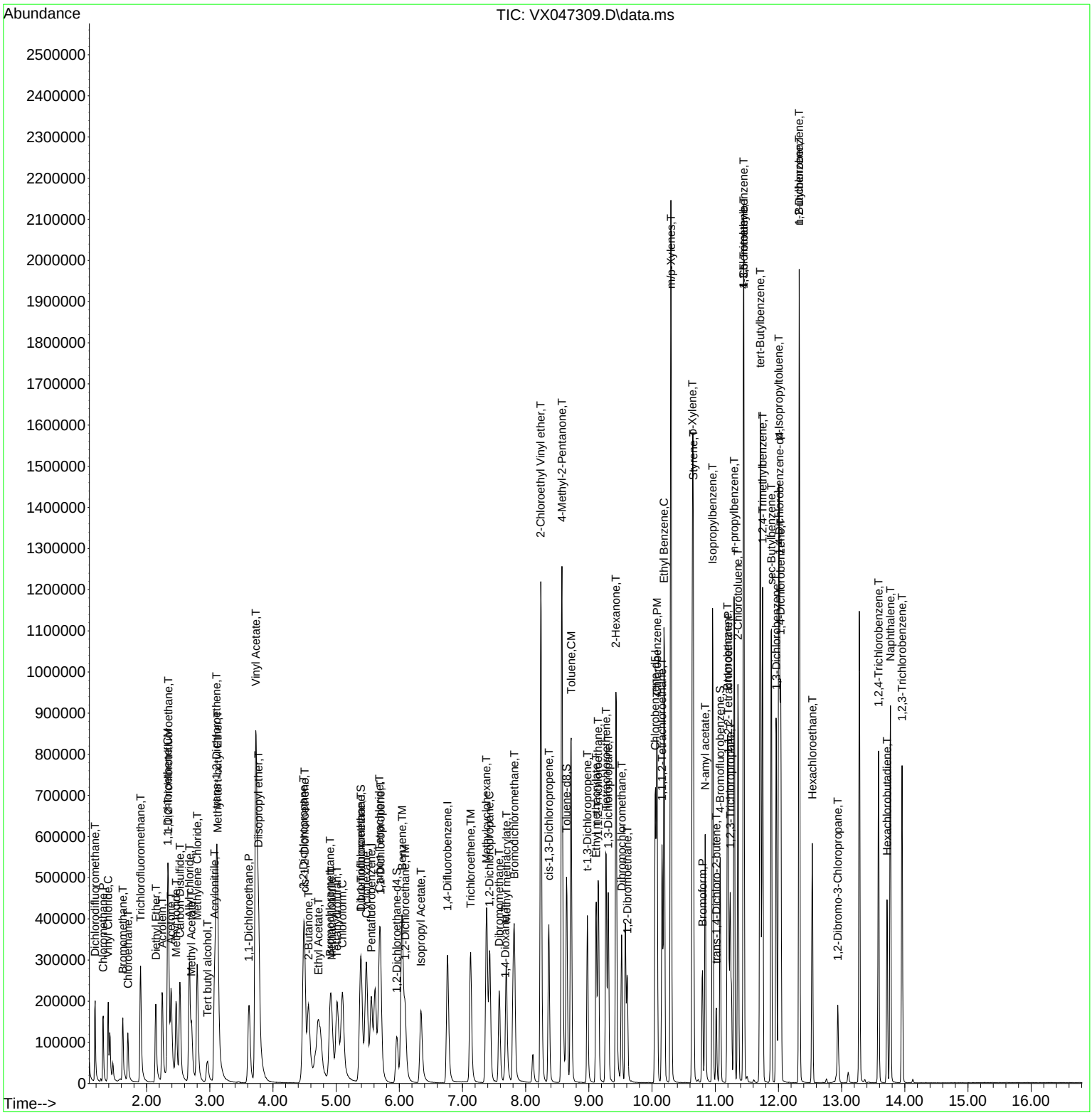
(#) = qualifier out of range (m) = manual integration (+) = signals summed

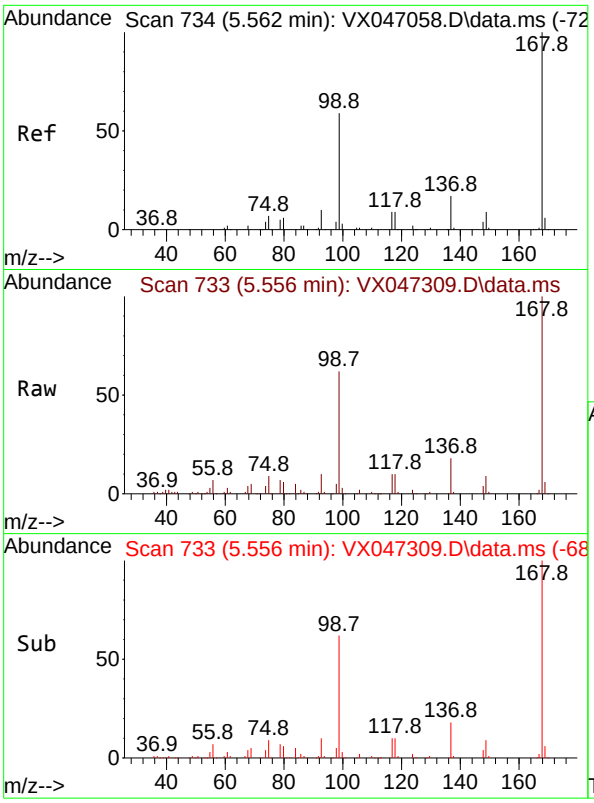
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047309.D
Acq On : 13 Aug 2025 09:44
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 14 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration



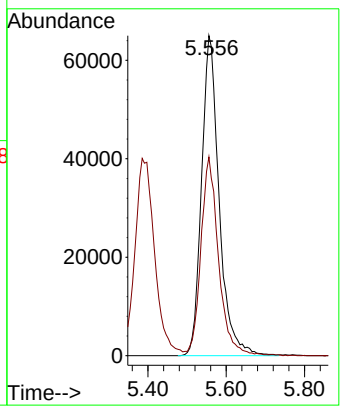


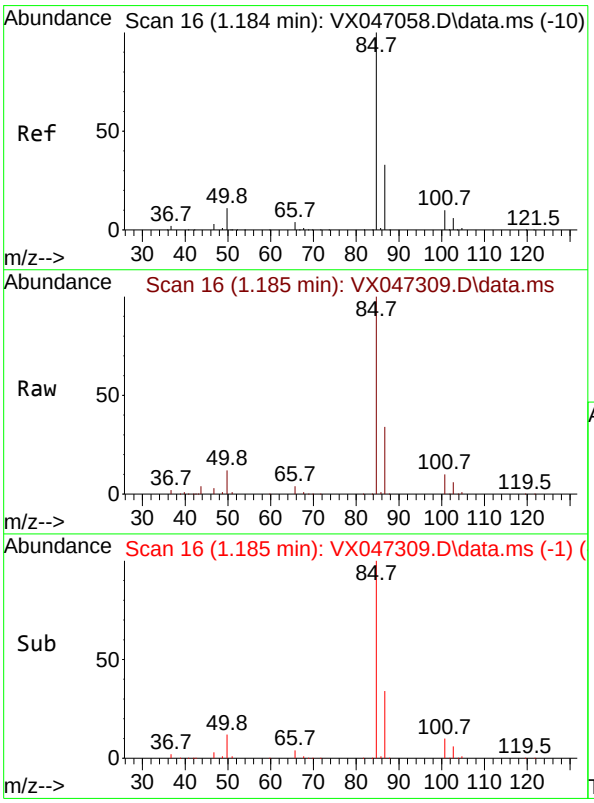
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 202458

Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.0	72.0

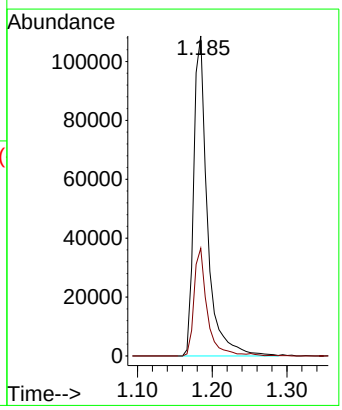


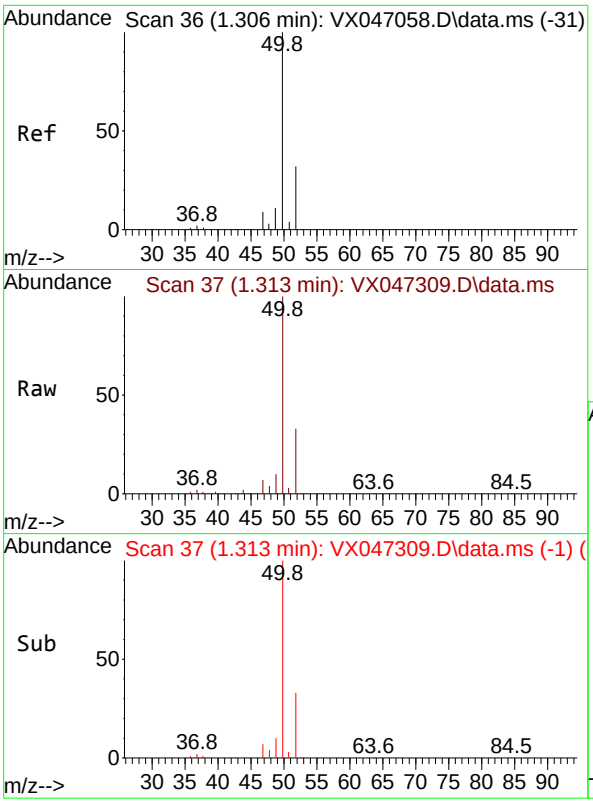


#2
Dichlorodifluoromethane
Concen: 51.465 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 85 Resp: 138397

Ion	Ratio	Lower	Upper
85	100		
87	33.6	16.6	49.8



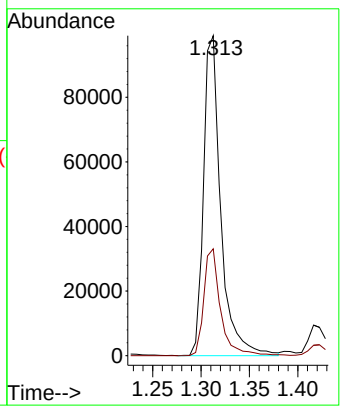


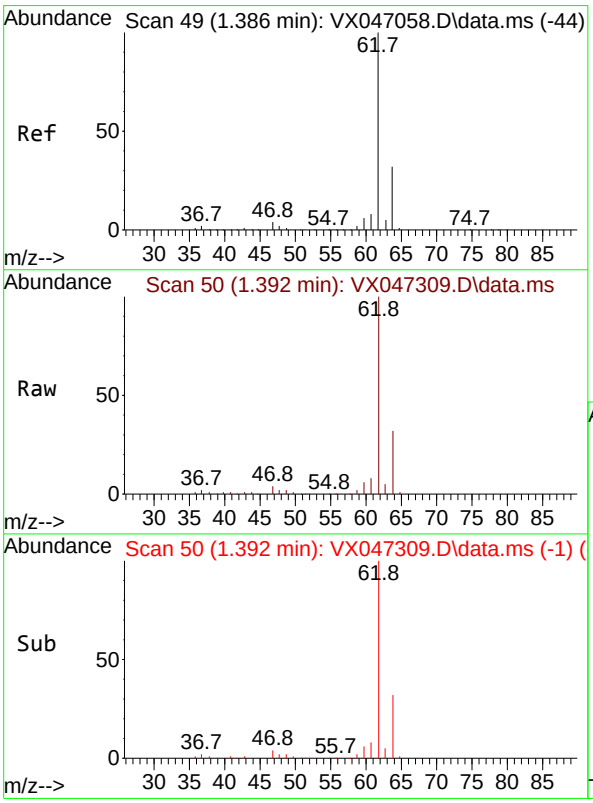
#3
Chloromethane
Concen: 46.408 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 123447

Ion	Ratio	Lower	Upper
50	100		
52	33.4	25.4	38.2

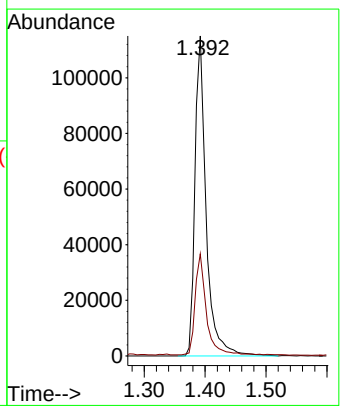


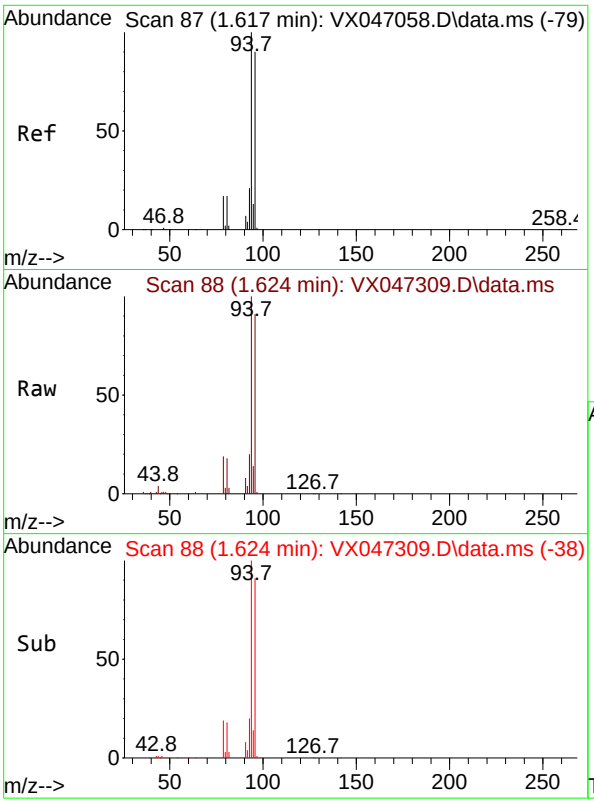


#4
Vinyl Chloride
Concen: 51.117 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 62 Resp: 146166

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.2	37.8



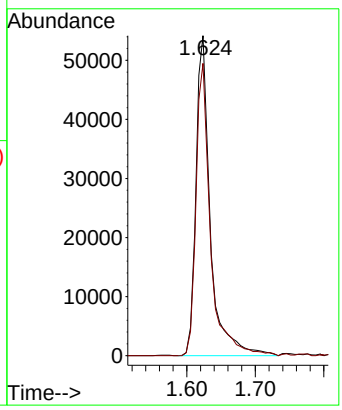


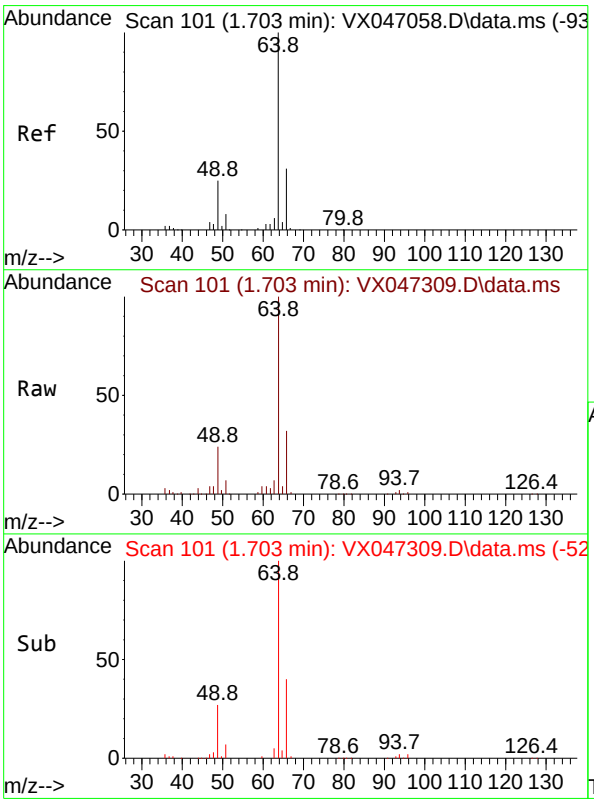
#5
Bromomethane
Concen: 50.837 ug/l
RT: 1.624 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 78964

Ion	Ratio	Lower	Upper
94	100		
96	91.4	72.3	108.5

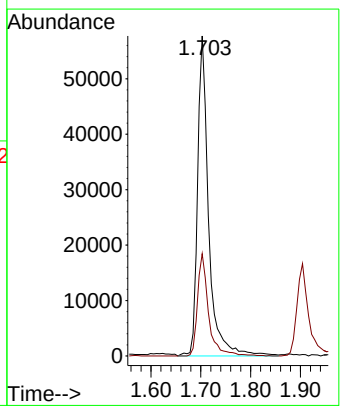


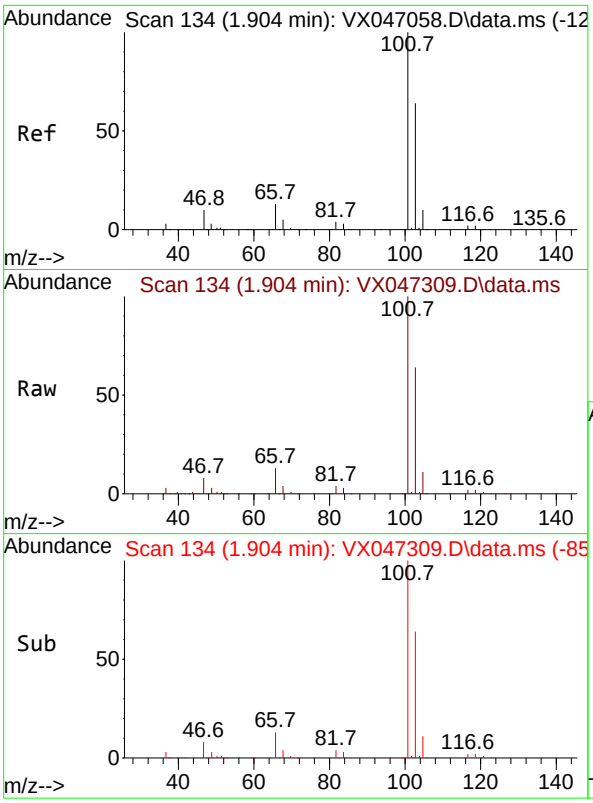


#6
Chloroethane
Concen: 47.427 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 64 Resp: 89071

Ion	Ratio	Lower	Upper
64	100		
66	31.9	25.0	37.6



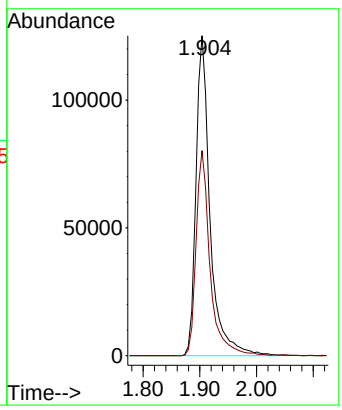


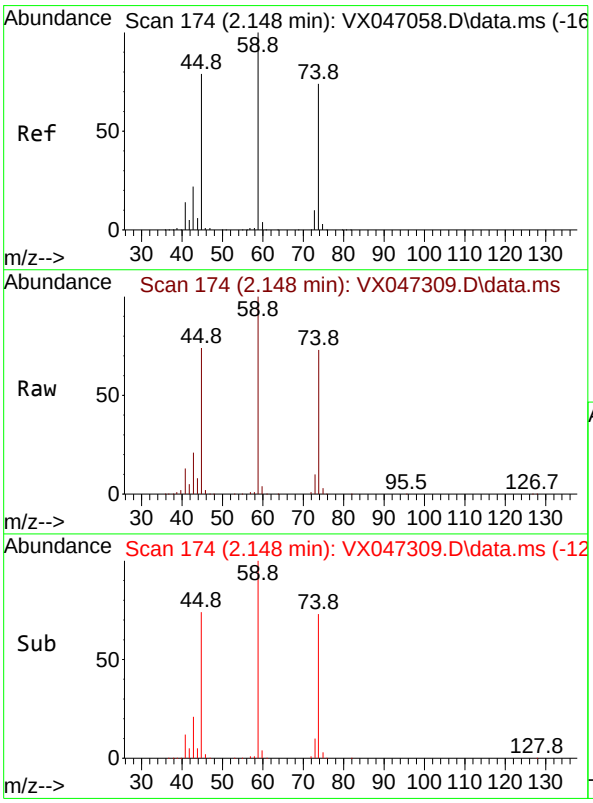
#7
Trichlorofluoromethane
Concen: 50.571 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 215625

Ion	Ratio	Lower	Upper
101	100		
103	64.1	50.9	76.3

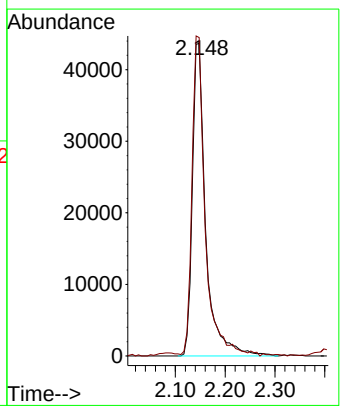


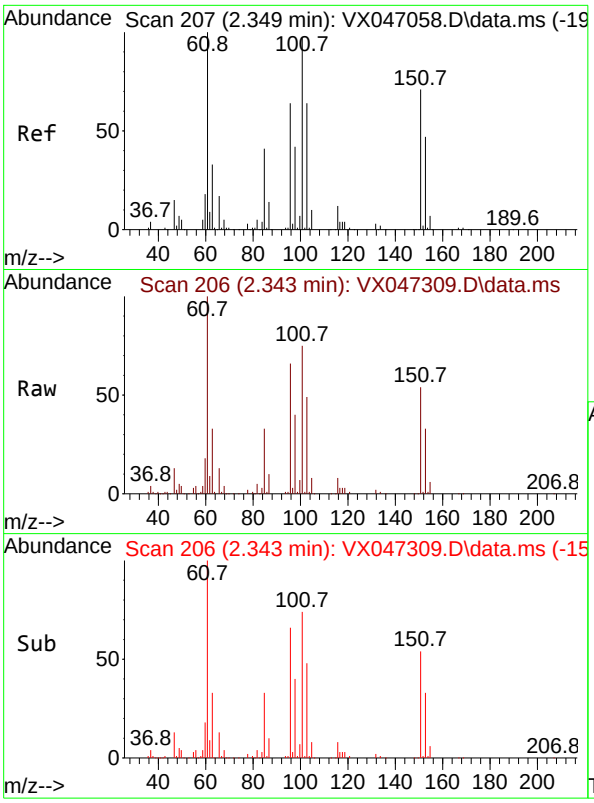


#8
Diethyl Ether
Concen: 54.146 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 74 Resp: 81402

Ion	Ratio	Lower	Upper
74	100		
45	98.7	53.0	159.0



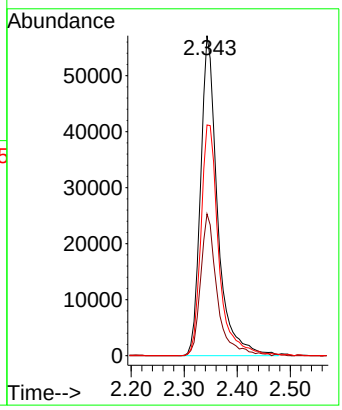


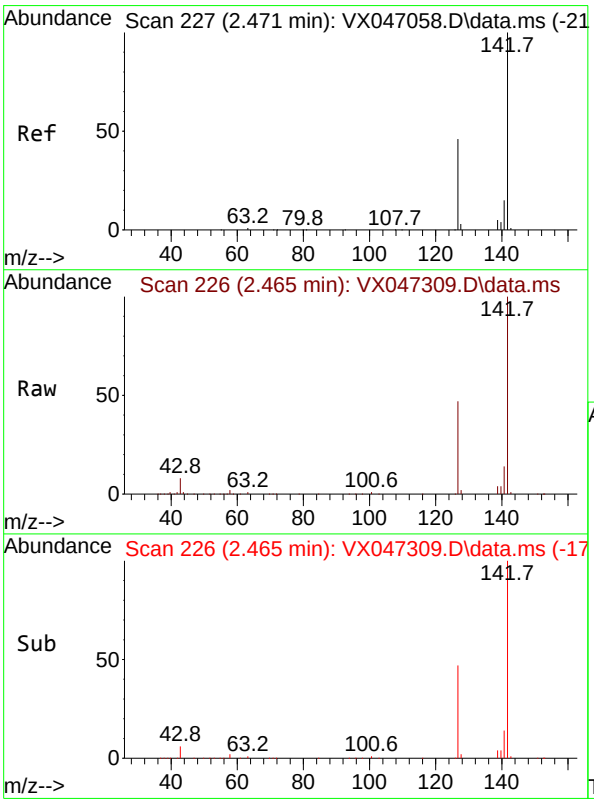
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.350 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 126773

Ion	Ratio	Lower	Upper
101	100		
85	43.4	35.4	53.0
151	75.9	59.2	88.8

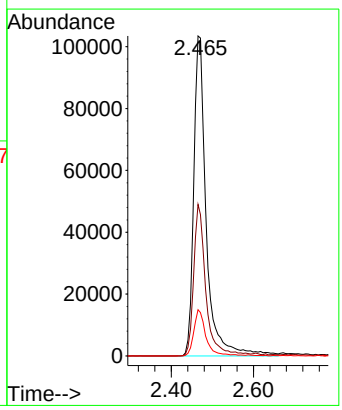


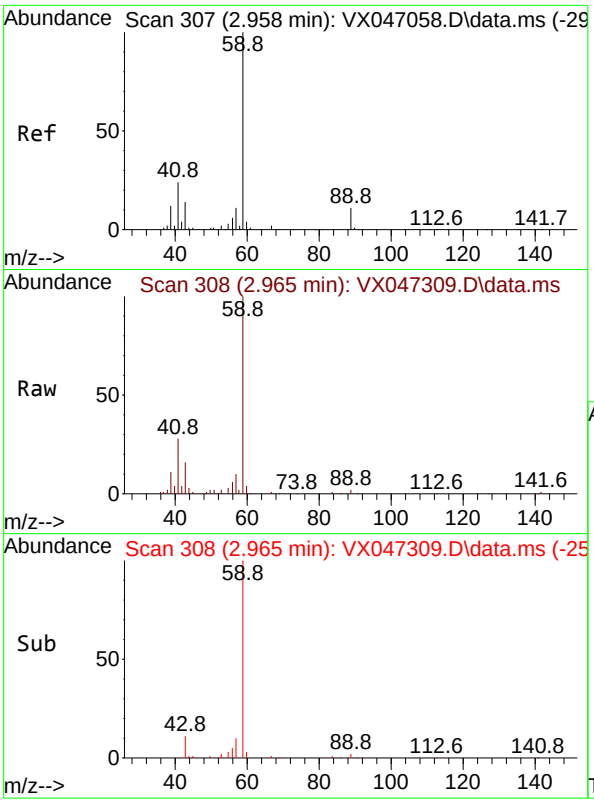


#10
Methyl Iodide
Concen: 83.845 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:142 Resp: 219512

Ion	Ratio	Lower	Upper
142	100		
127	45.8	36.6	54.8
141	13.9	10.9	16.3



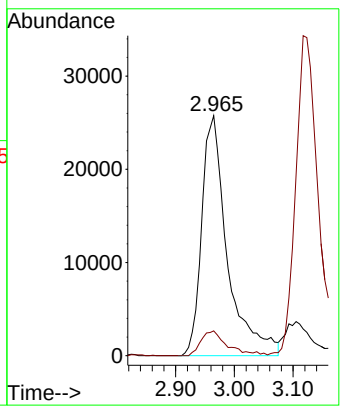


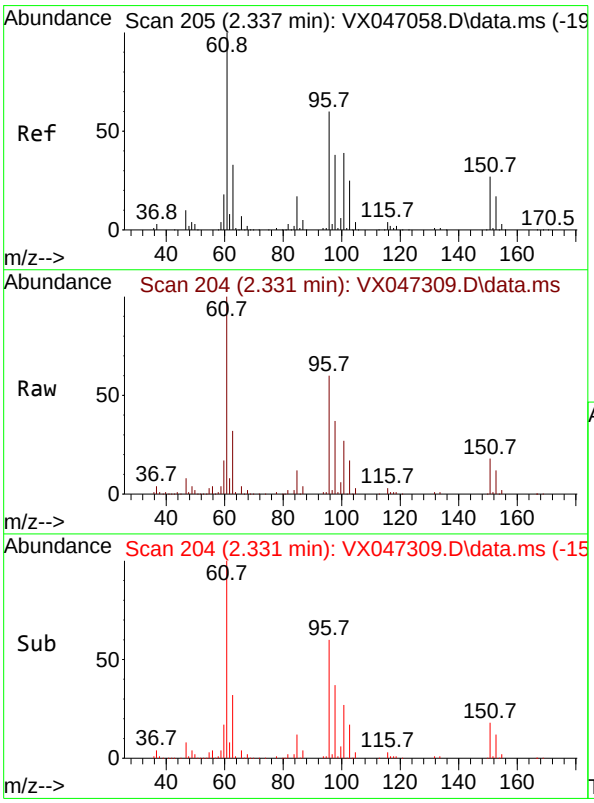
#11
Tert butyl alcohol
Concen: 266.119 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 78261

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.5	12.7

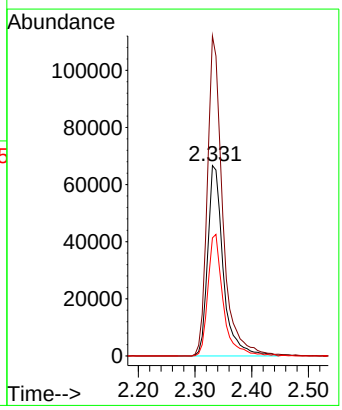


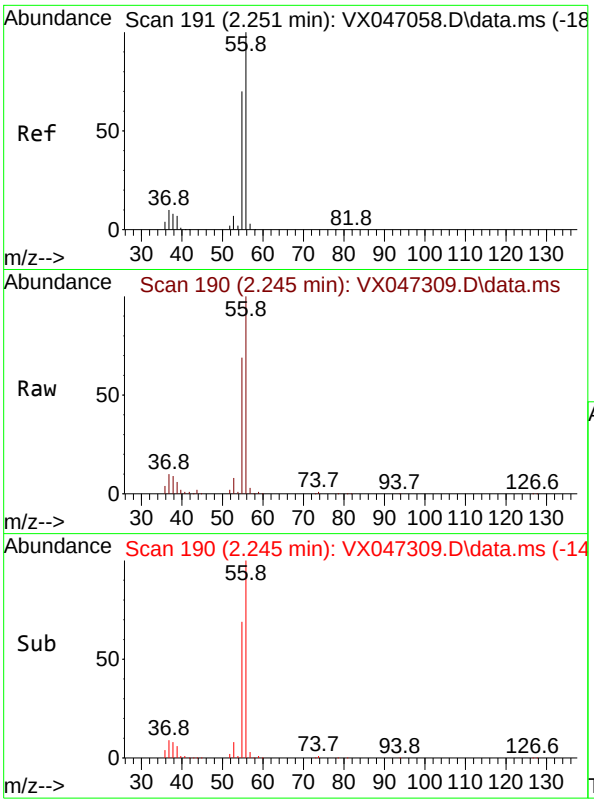


#12
1,1-Dichloroethene
Concen: 49.935 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 96 Resp: 127051

Ion	Ratio	Lower	Upper
96	100		
61	168.1	132.6	198.8
98	62.0	50.2	75.4



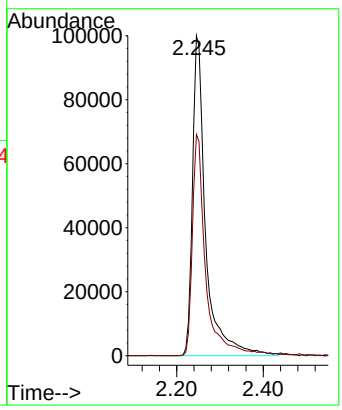


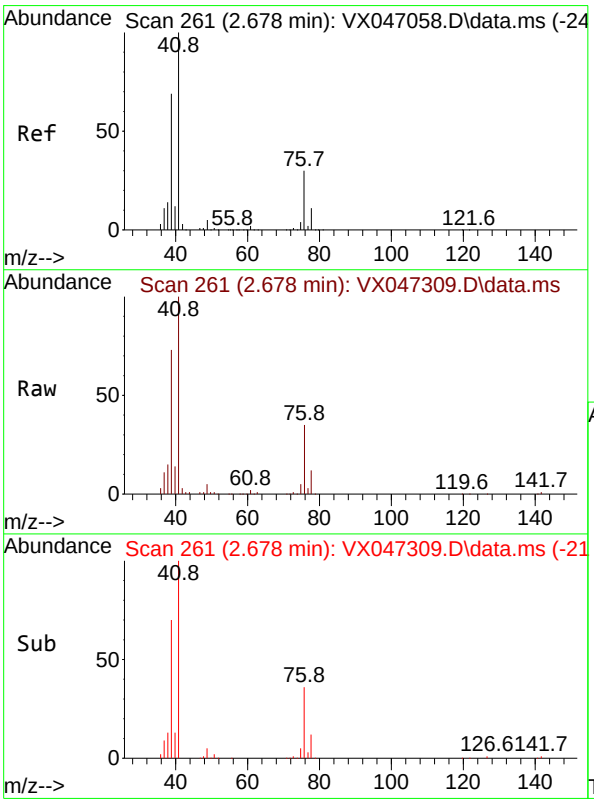
#13
Acrolein
Concen: 389.062 ug/l
RT: 2.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 211272

Ion	Ratio	Lower	Upper
56	100		
55	70.4	55.7	83.5

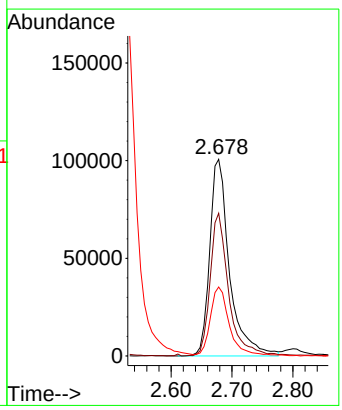


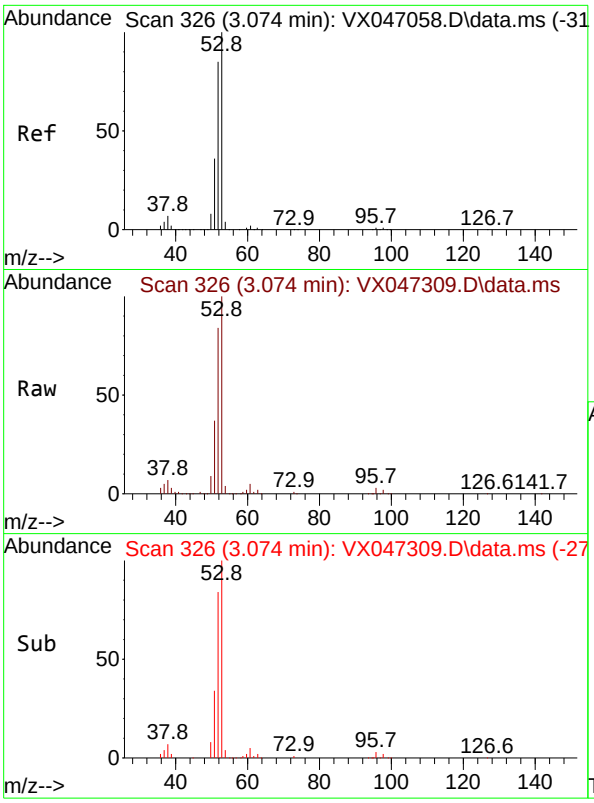


#14
Allyl chloride
Concen: 49.389 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 41 Resp: 227152

Ion	Ratio	Lower	Upper
41	100		
39	67.8	52.6	78.8
76	34.1	25.7	38.5



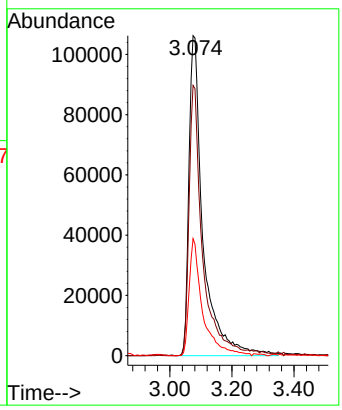


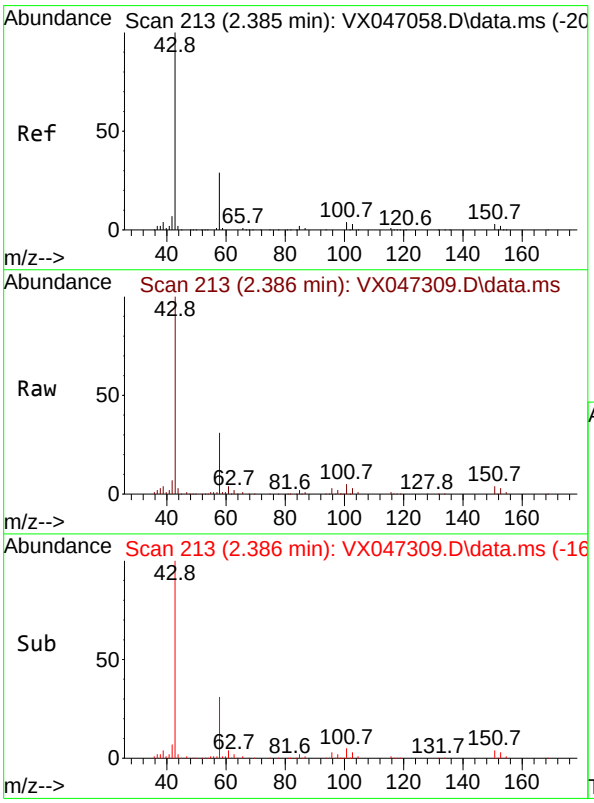
#15
Acrylonitrile
Concen: 280.076 ug/l
RT: 3.074 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 336877

Ion	Ratio	Lower	Upper
53	100		
52	80.5	65.7	98.5
51	35.0	28.8	43.2

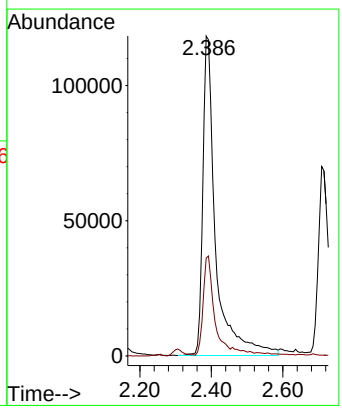


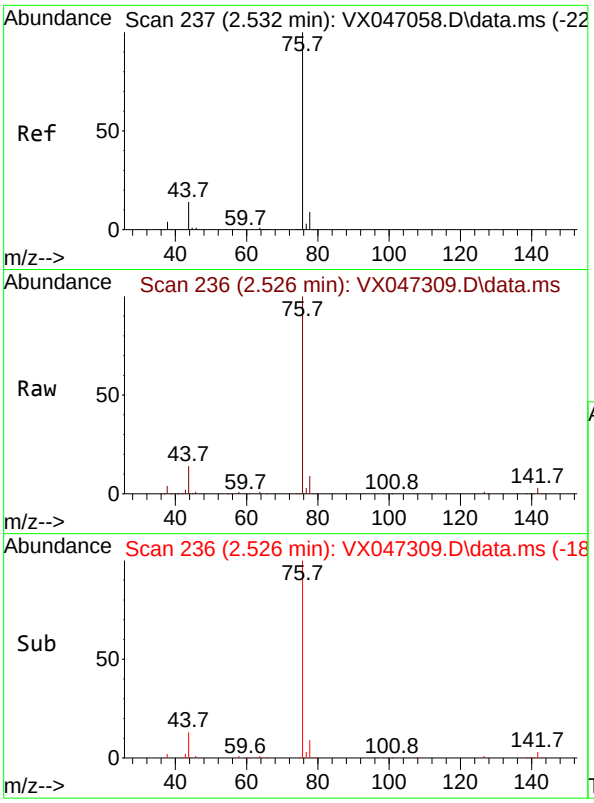


#16
Acetone
Concen: 291.855 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 43 Resp: 294865

Ion	Ratio	Lower	Upper
43	100		
58	30.0	24.0	36.0



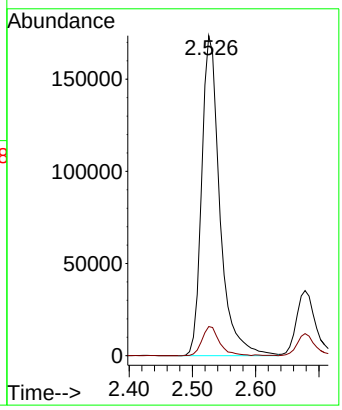


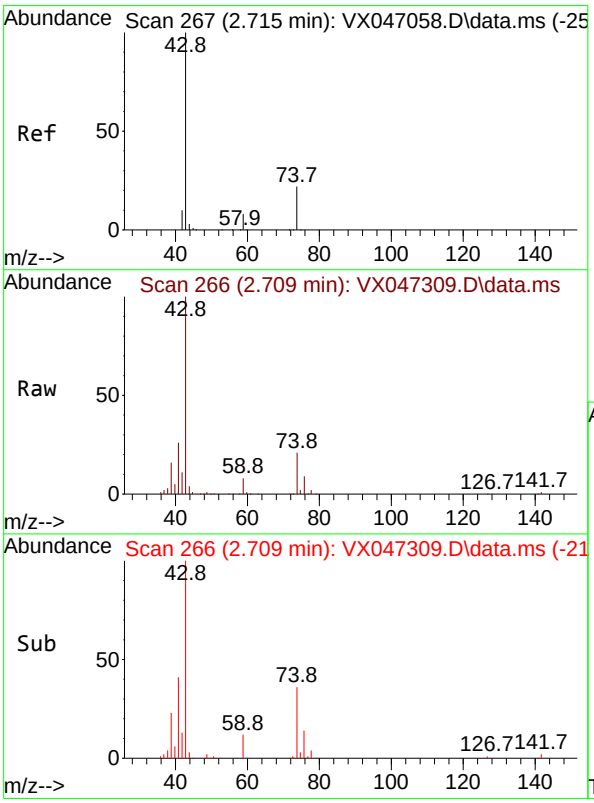
#17
Carbon Disulfide
Concen: 47.171 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 347209

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.0	10.4

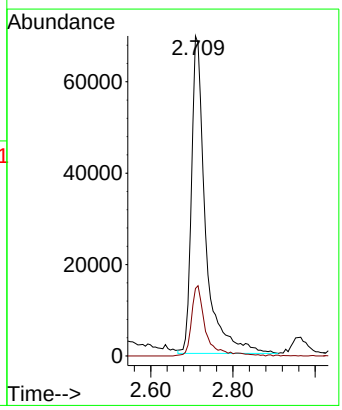


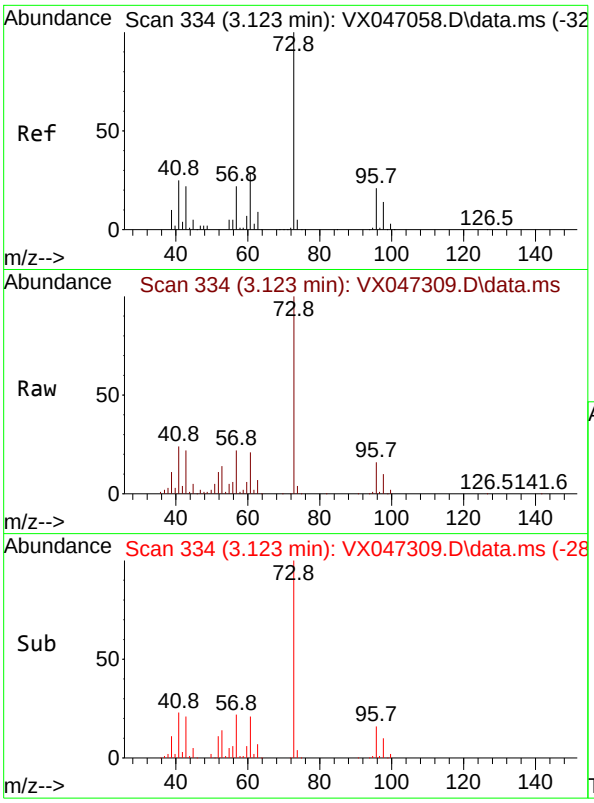


#18
Methyl Acetate
Concen: 61.331 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 43 Resp: 164668

Ion	Ratio	Lower	Upper
43	100		
74	21.5	17.7	26.5



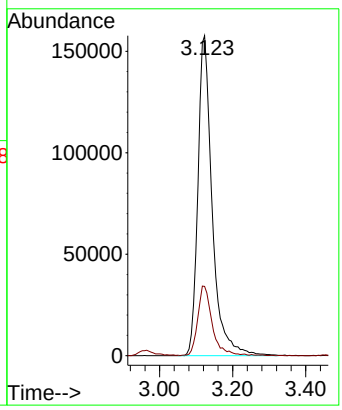


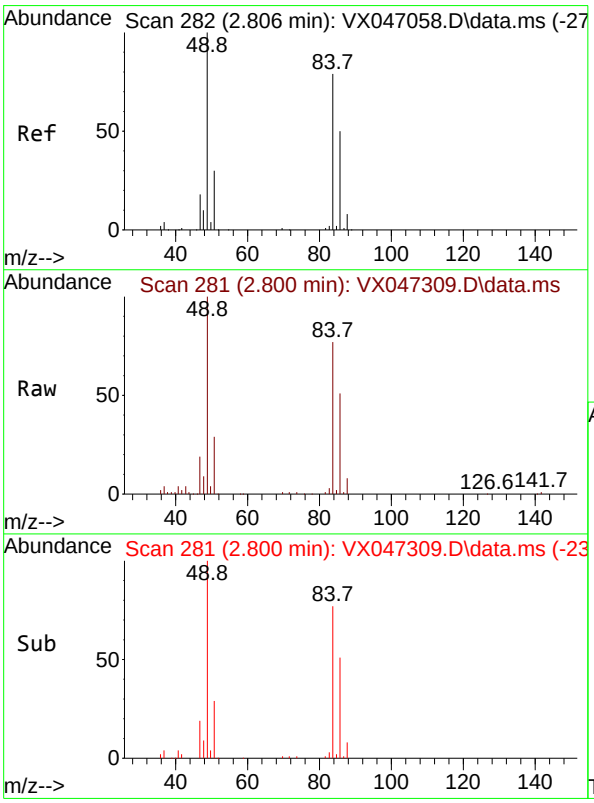
#19
Methyl tert-butyl Ether
Concen: 55.387 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 428882

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.7	26.5

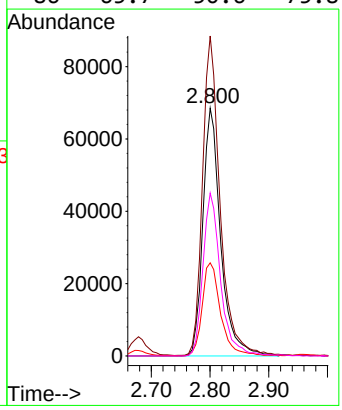


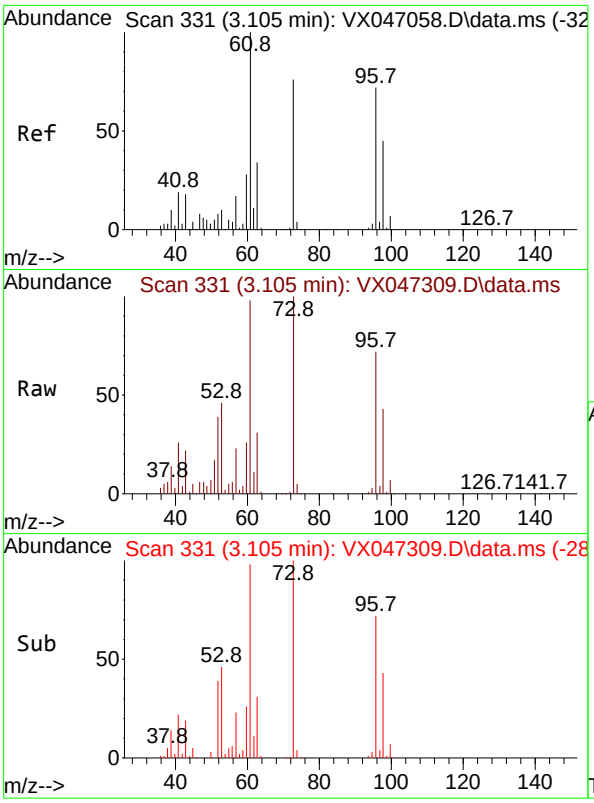


#20
Methylene Chloride
Concen: 52.043 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 84 Resp: 144651

Ion	Ratio	Lower	Upper
84	100		
49	128.8	101.6	152.4
51	37.5	30.3	45.5
86	65.7	50.6	75.8



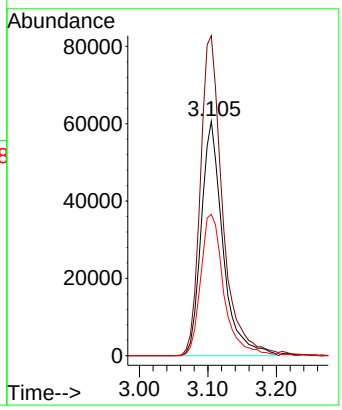


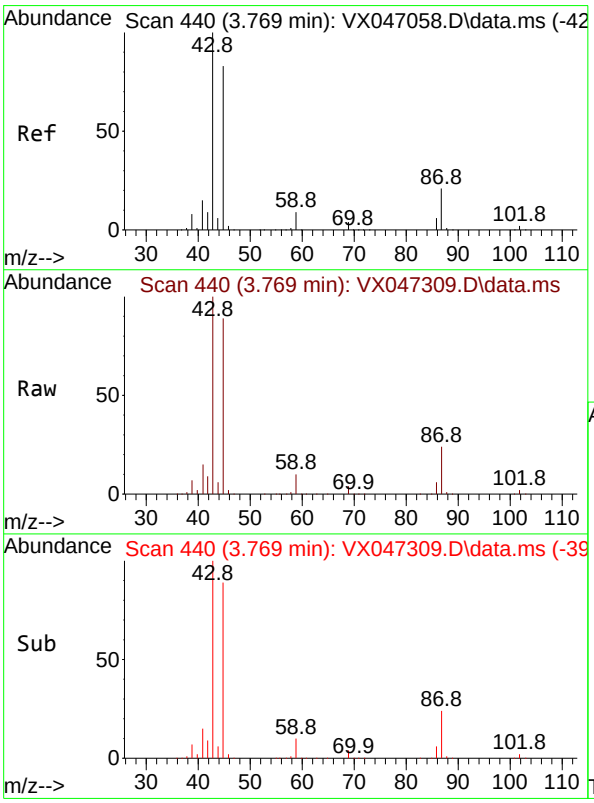
#21
trans-1,2-Dichloroethene
Concen: 51.205 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 133319

Ion	Ratio	Lower	Upper
96	100		
61	136.4	111.1	166.7
98	60.4	49.6	74.4

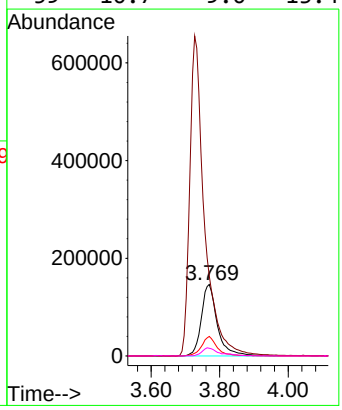


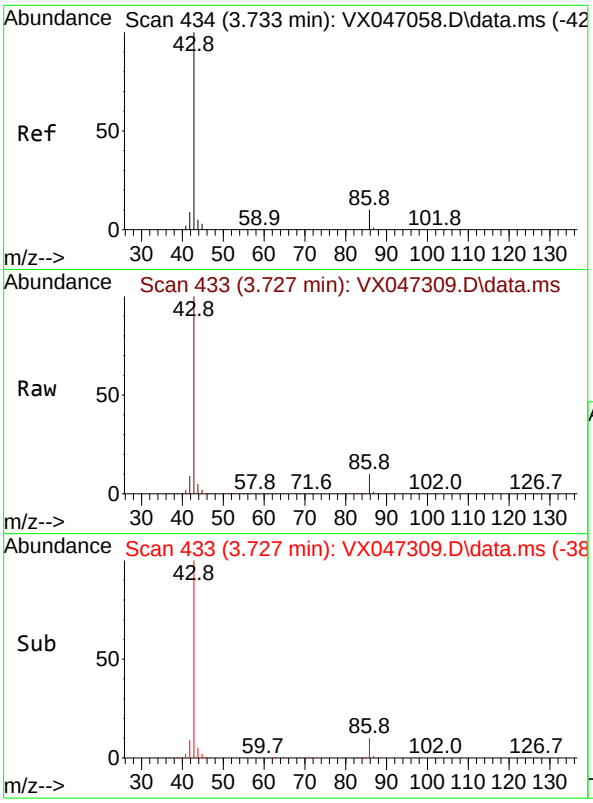


#22
Diisopropyl ether
Concen: 53.638 ug/l
RT: 3.769 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 45 Resp: 474294

Ion	Ratio	Lower	Upper
45	100		
43	112.0	96.8	145.2
87	27.3	20.5	30.7
59	10.7	9.0	13.4



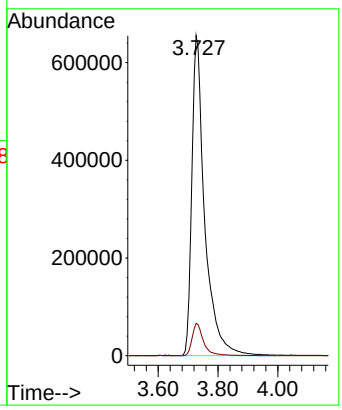


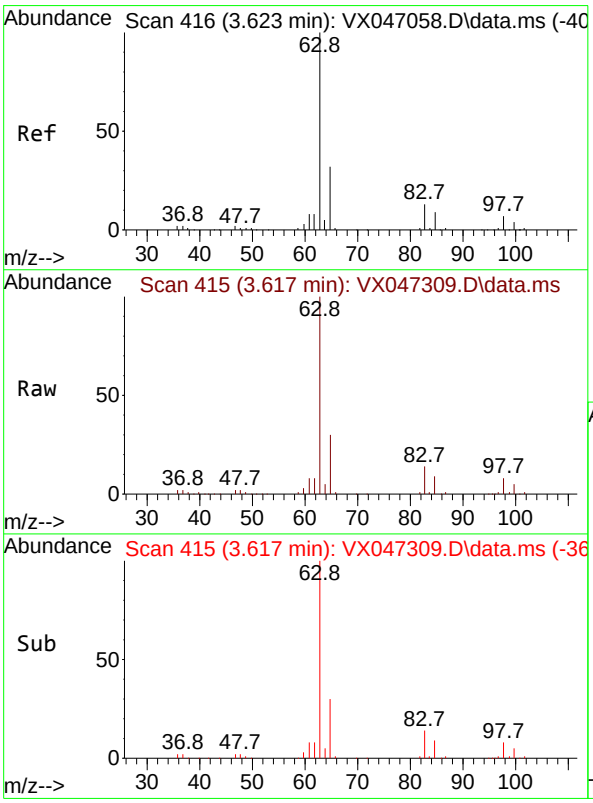
#23
Vinyl Acetate
Concen: 277.255 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1966349

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

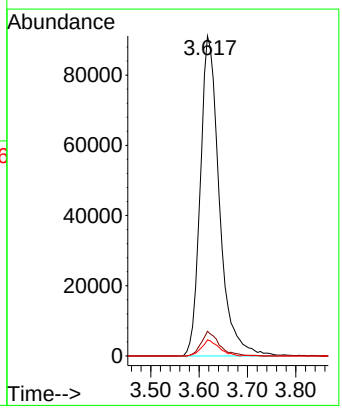


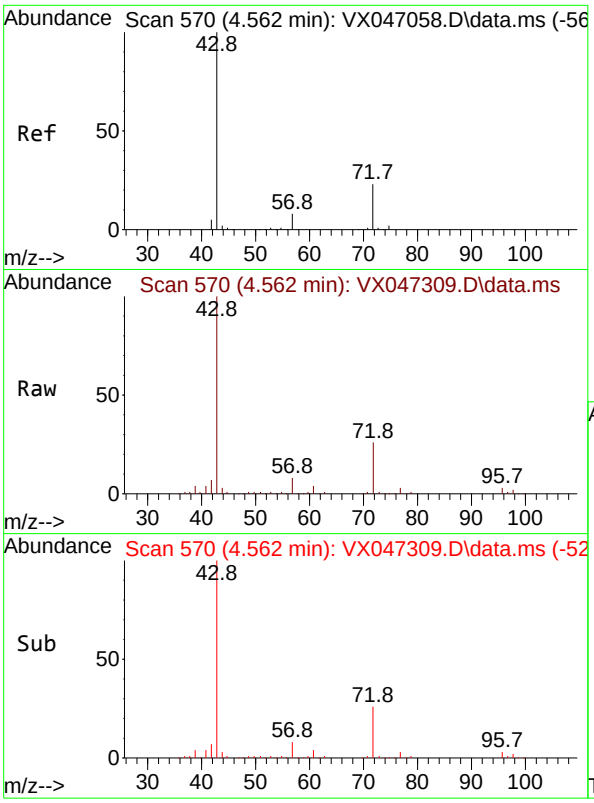


#24
1,1-Dichloroethane
Concen: 50.758 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 63 Resp: 249579

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.6	10.8
100	5.0	2.3	6.8



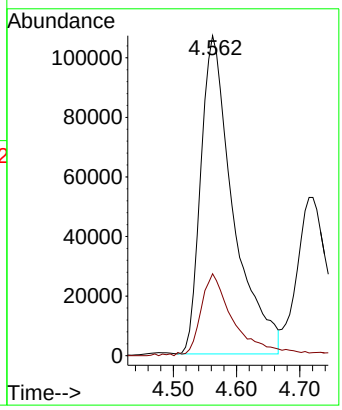


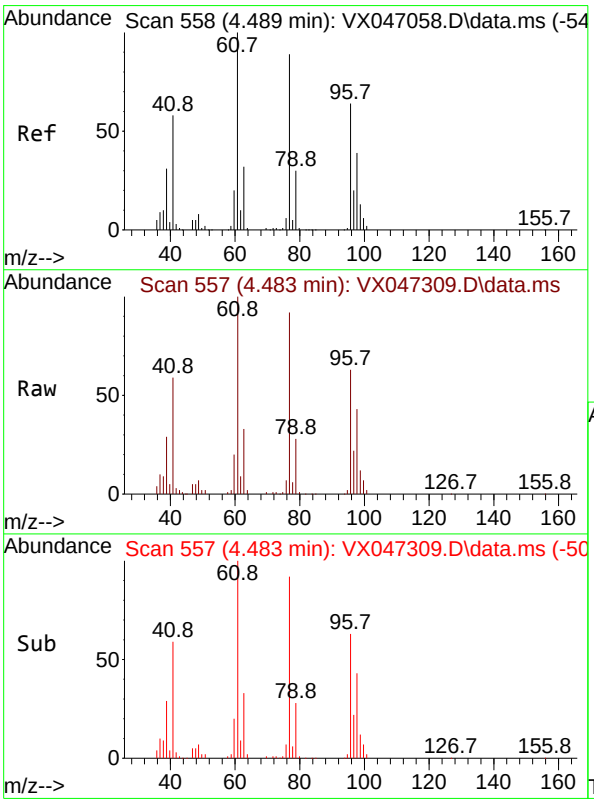
#25
2-Butanone
Concen: 258.198 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 379836

Ion	Ratio	Lower	Upper
43	100		
72	24.8	18.8	28.2

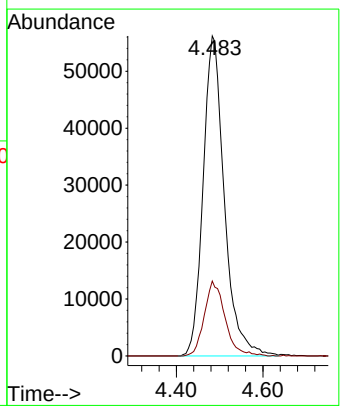


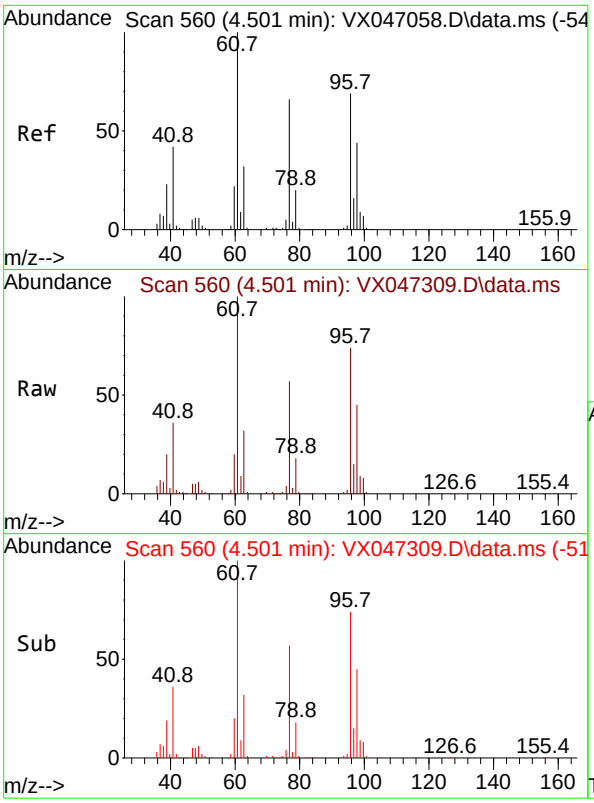


#26
2,2-Dichloropropane
Concen: 50.208 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 77 Resp: 191107

Ion	Ratio	Lower	Upper
77	100		
97	22.9	11.4	34.1



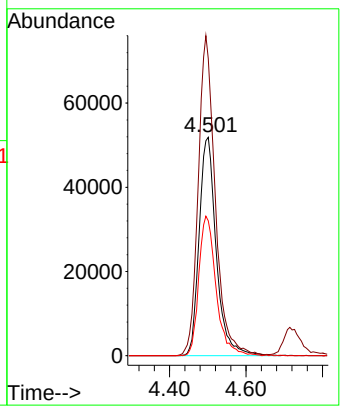


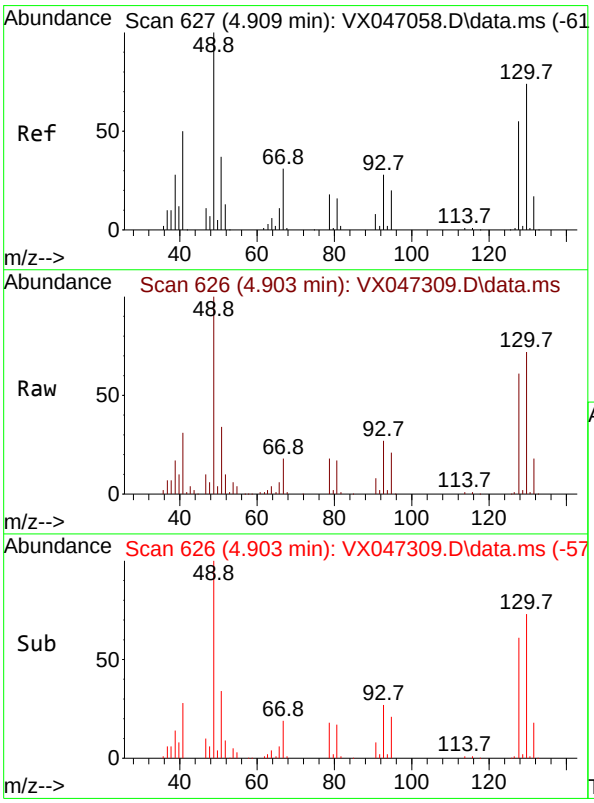
#27
cis-1,2-Dichloroethene
Concen: 52.320 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 161308

Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	298.6
98	64.5	0.0	128.8

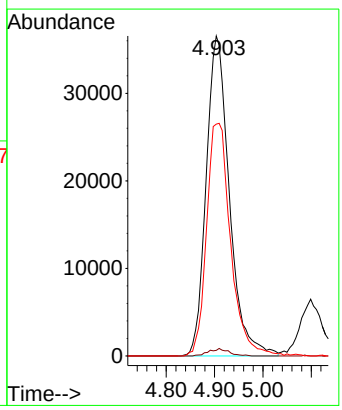


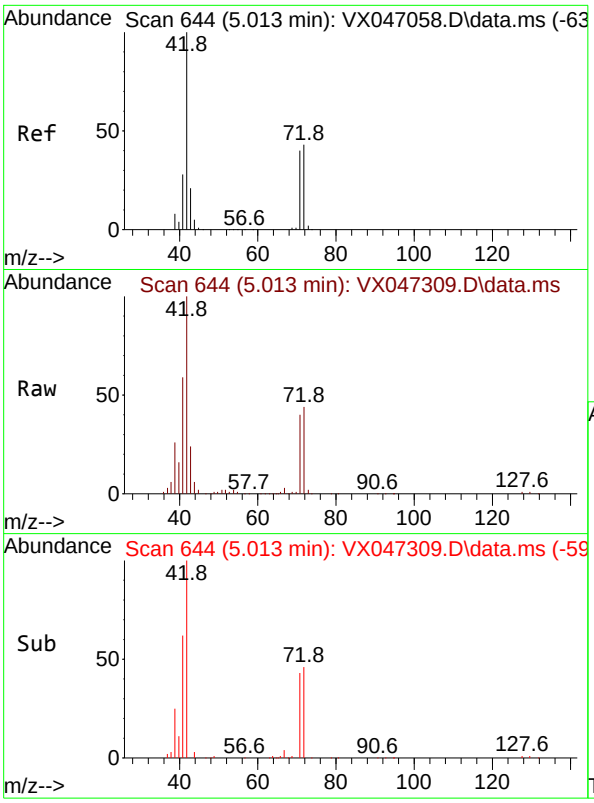


#28
Bromochloromethane
Concen: 53.820 ug/l
RT: 4.903 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 49 Resp: 121750

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	75.2	59.0	88.4



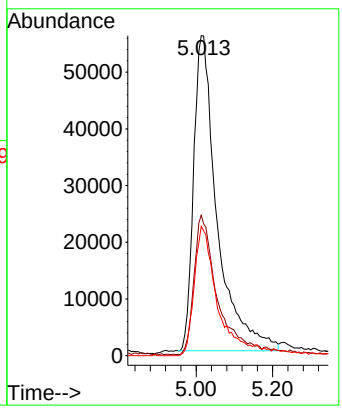


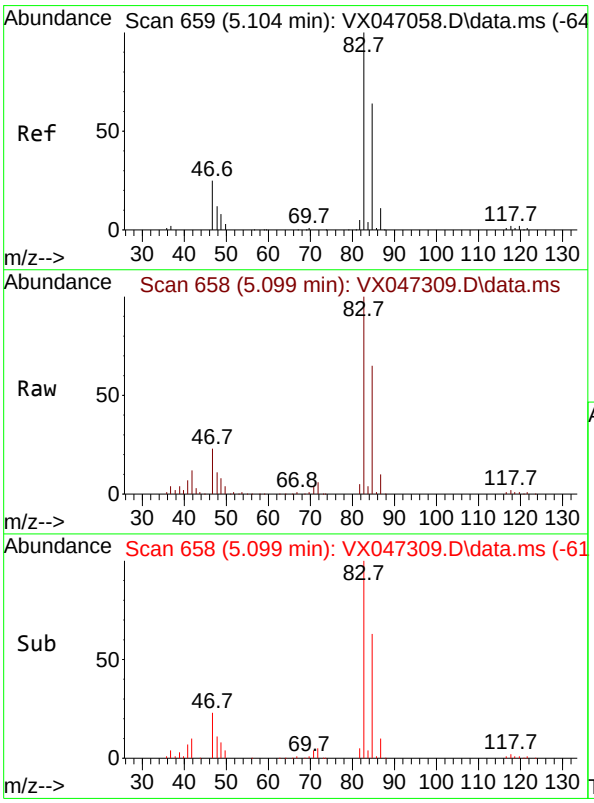
#29
Tetrahydrofuran
Concen: 250.372 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 237647

Ion	Ratio	Lower	Upper
42	100		
72	43.4	33.7	50.5
71	39.2	31.0	46.4

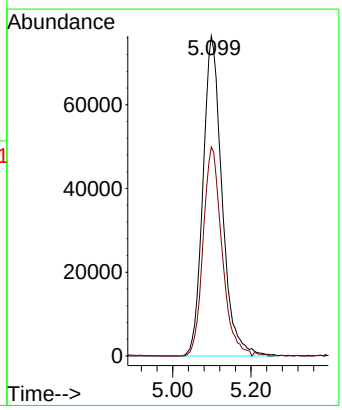


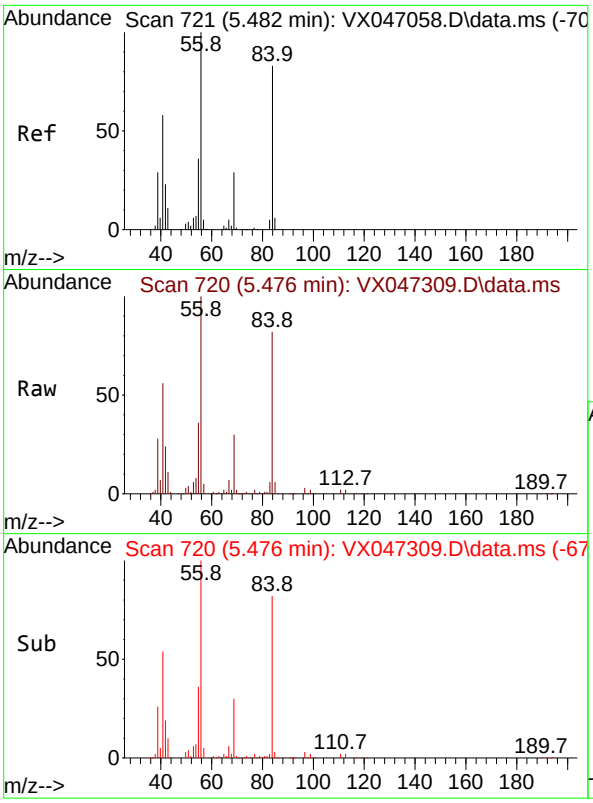


#30
Chloroform
Concen: 51.555 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 83 Resp: 258046

Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.9	76.3



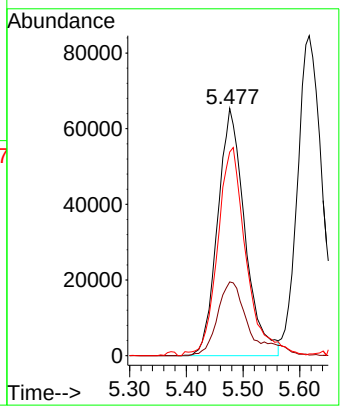


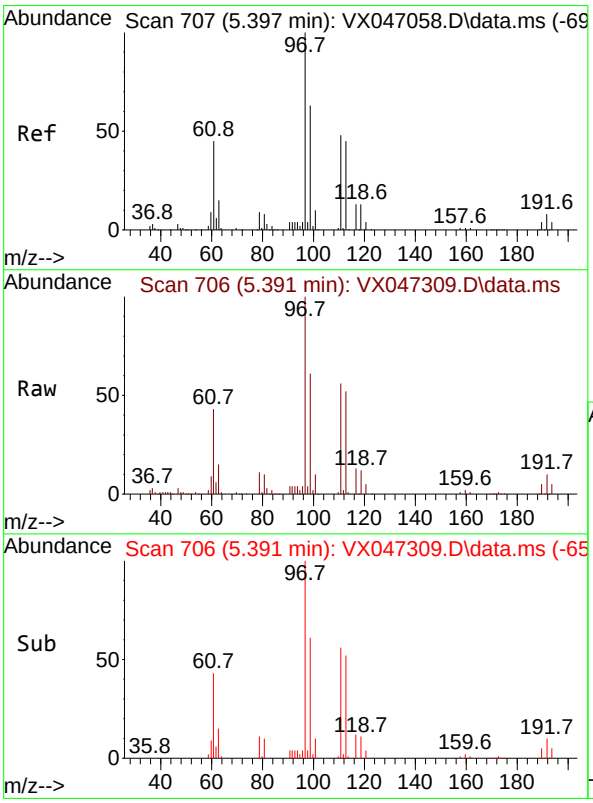
#31
Cyclohexane
Concen: 46.334 ug/l
RT: 5.476 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 218449

Ion	Ratio	Lower	Upper
56	100		
69	29.4	23.3	34.9
84	82.2	66.5	99.7

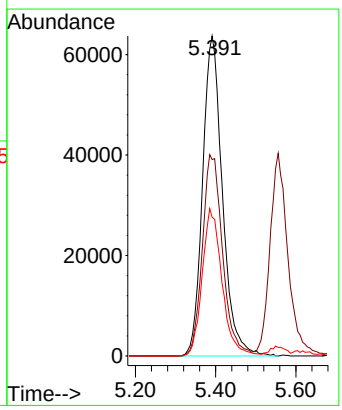


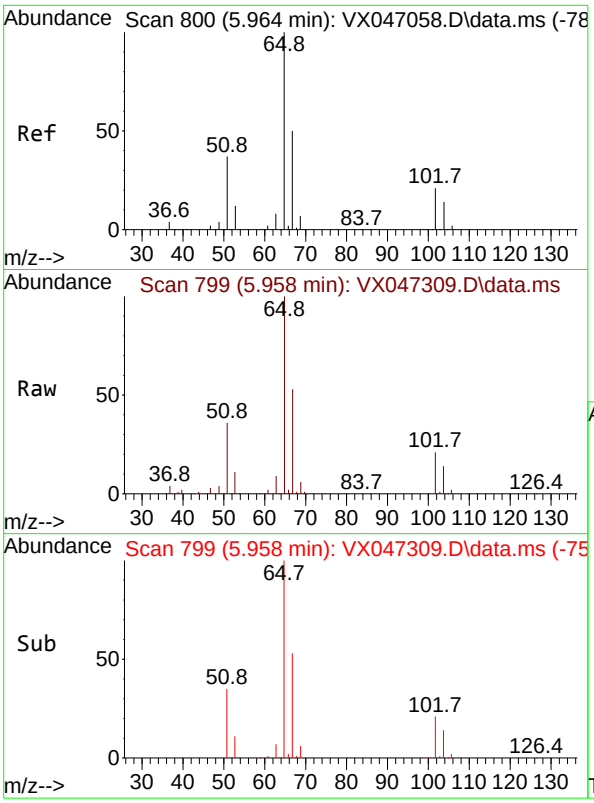


#32
1,1,1-Trichloroethane
Concen: 50.322 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 97 Resp: 218773

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.2	76.8
61	45.9	37.1	55.7



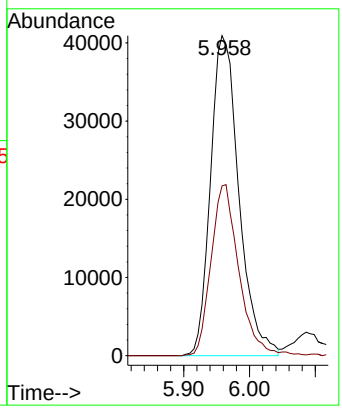


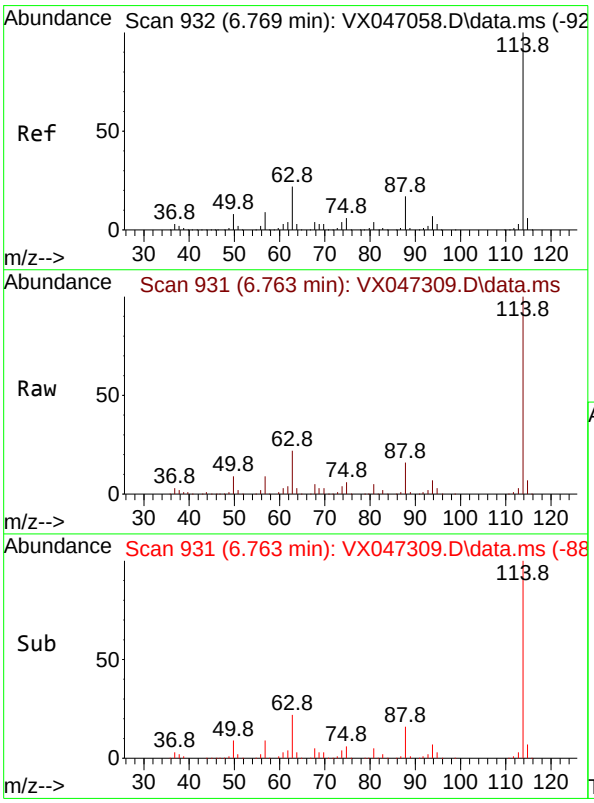
#33
1,2-Dichloroethane-d4
Concen: 48.737 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 122913

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	104.8

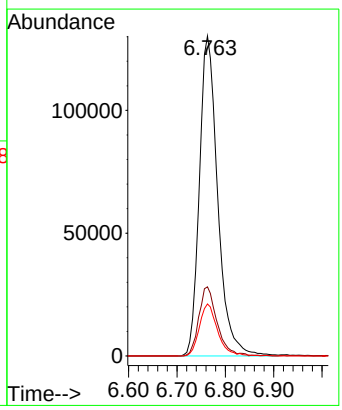


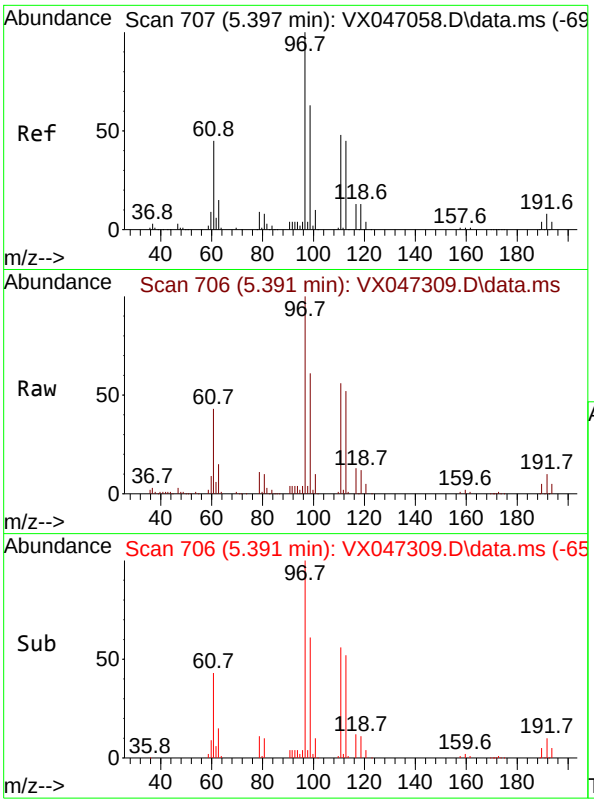


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:114 Resp: 343367

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	43.2
88	16.3	0.0	33.8



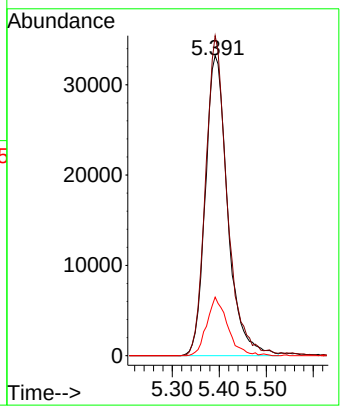


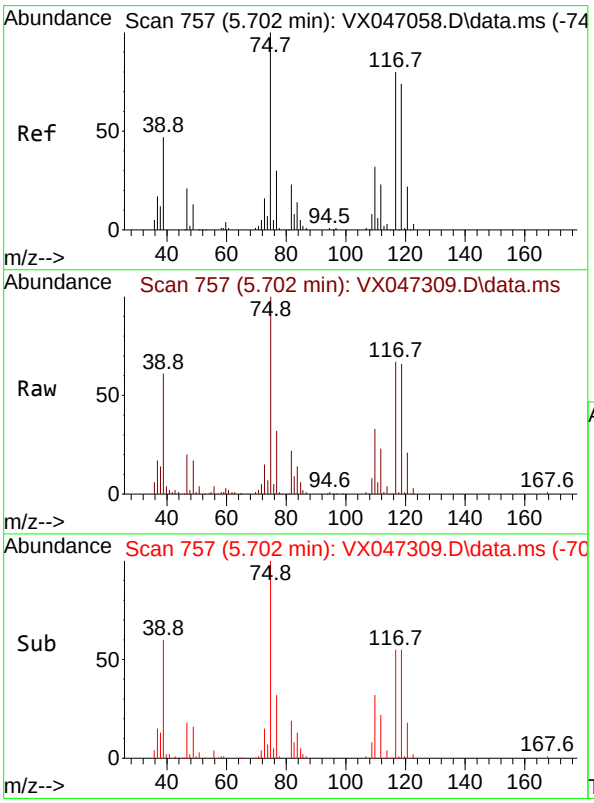
#35
Dibromofluoromethane
Concen: 51.627 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 109453

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.6	124.0
192	18.2	14.9	22.3

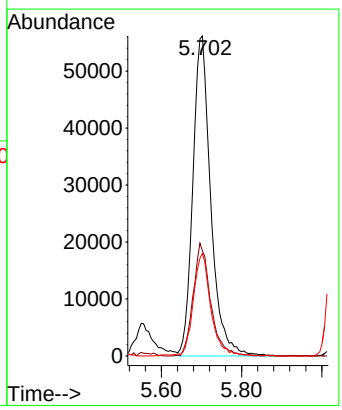


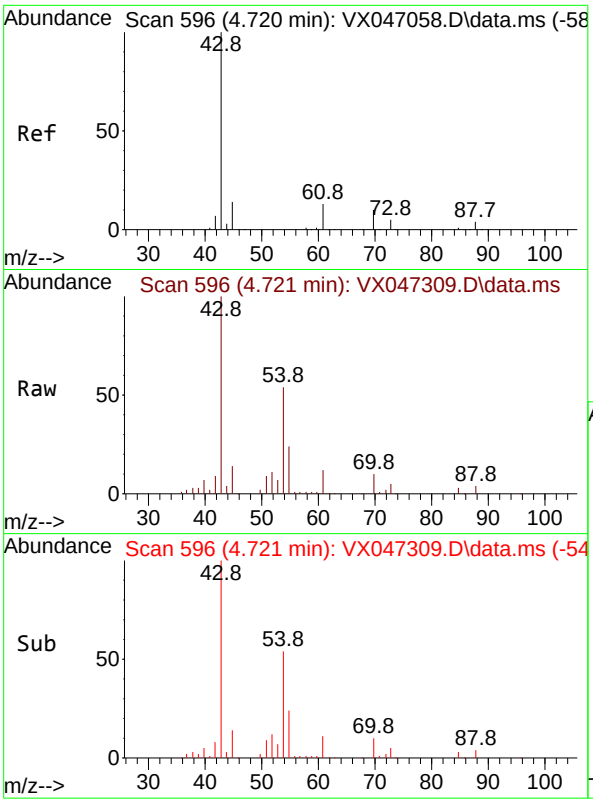


#36
1,1-Dichloropropene
Concen: 48.290 ug/l
RT: 5.702 min Scan# 757
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 75 Resp: 174512

Ion	Ratio	Lower	Upper
75	100		
110	34.2	17.2	51.5
77	30.7	25.1	37.7



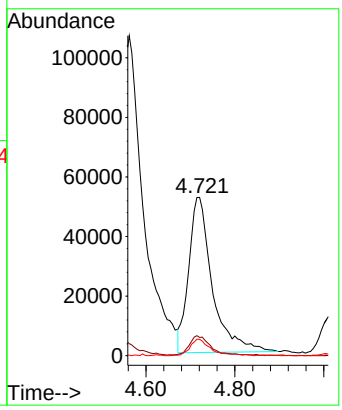


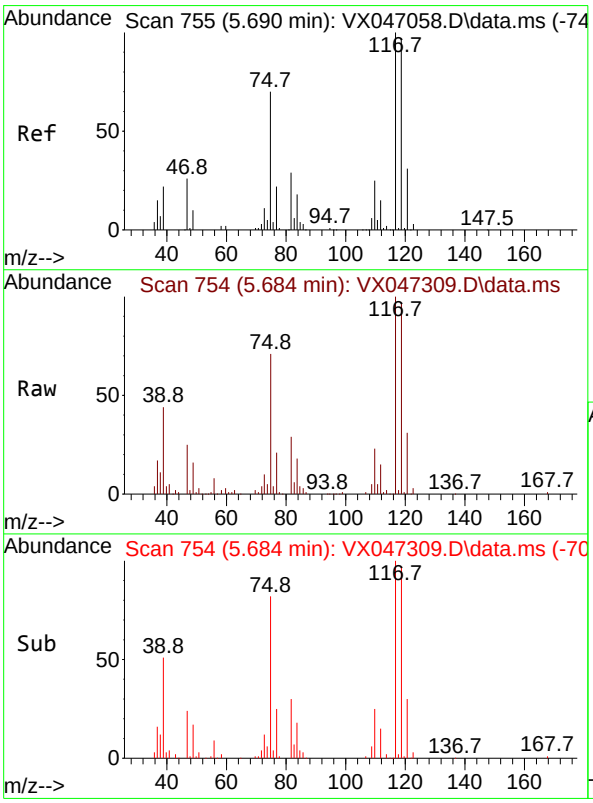
#37
Ethyl Acetate
Concen: 57.925 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 192890

Ion	Ratio	Lower	Upper
43	100		
61	10.7	10.2	15.2
70	9.3	8.1	12.1

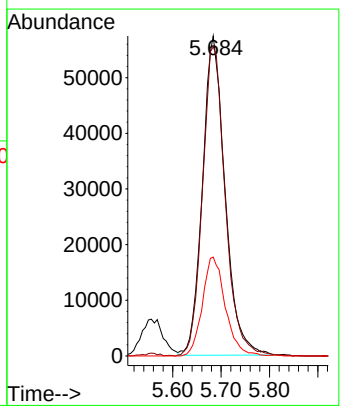


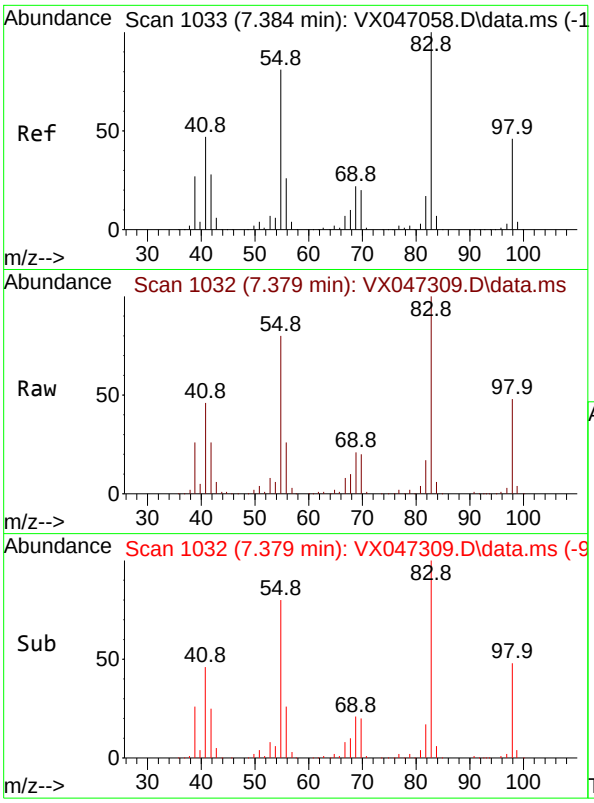


#38
Carbon Tetrachloride
Concen: 48.263 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:117 Resp: 186156

Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.6	115.0
121	31.0	24.4	36.6



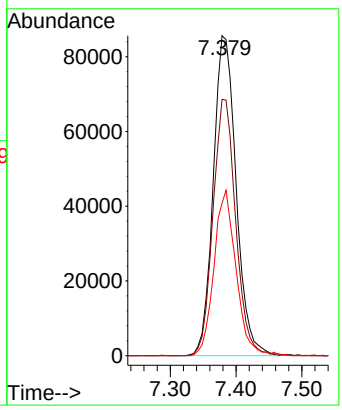


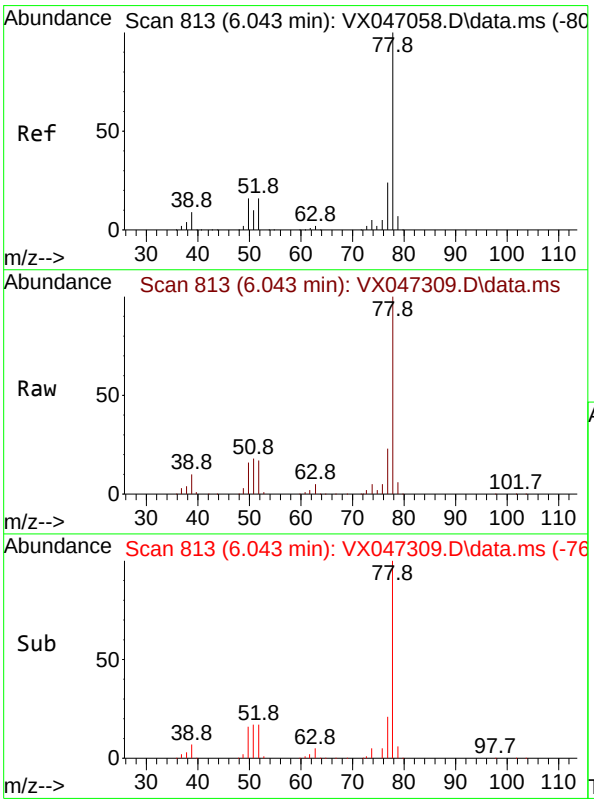
#39
Methylcyclohexane
Concen: 45.966 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 207402

Ion	Ratio	Lower	Upper
83	100		
55	80.1	64.5	96.7
98	47.7	36.9	55.3

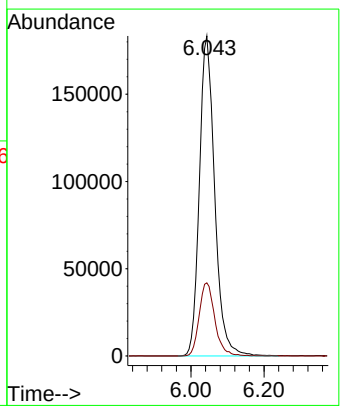


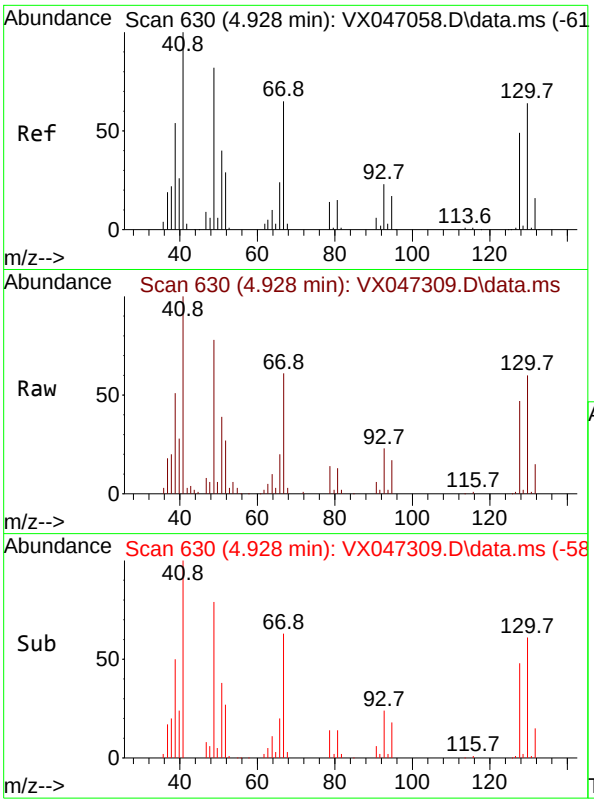


#40
Benzene
Concen: 51.034 ug/l
RT: 6.043 min Scan# 813
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 78 Resp: 533739

Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.0	28.4



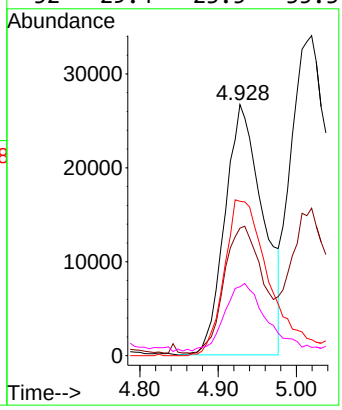


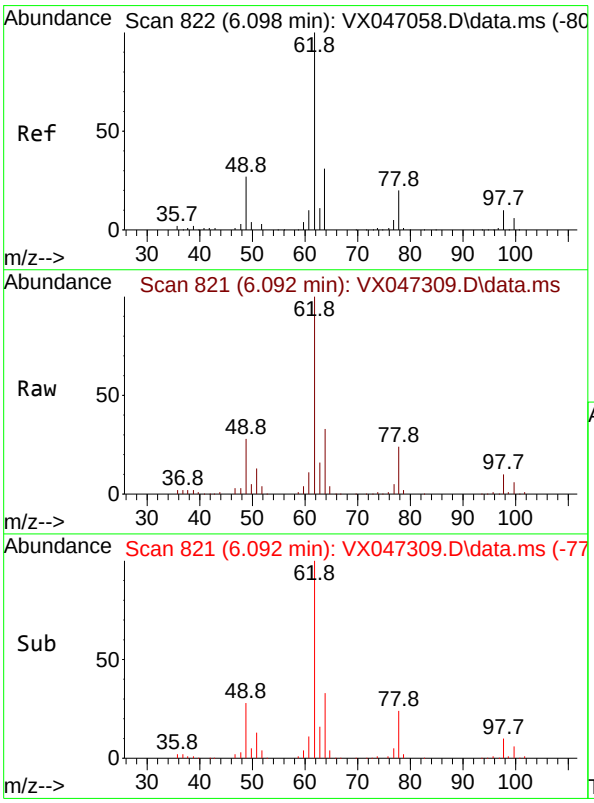
#41
Methacrylonitrile
Concen: 51.663 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 89952

Ion	Ratio	Lower	Upper
41	100		
39	51.0	44.2	66.2
67	75.6	56.4	84.6
52	29.4	23.5	35.3

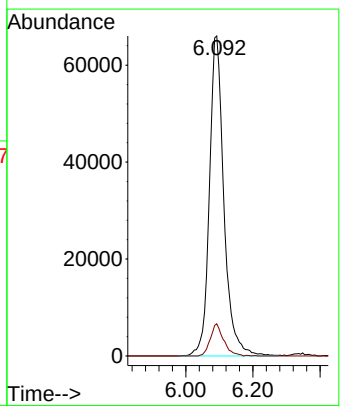


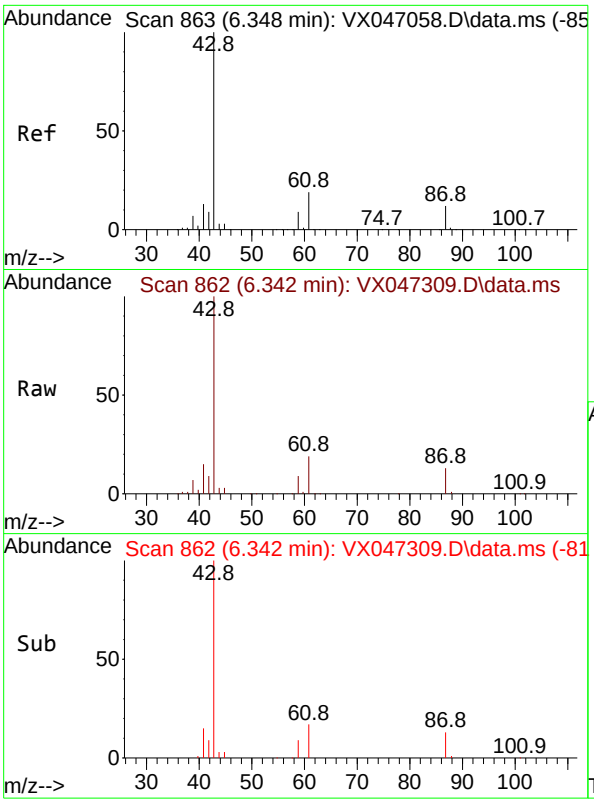


#42
1,2-Dichloroethane
Concen: 53.804 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 62 Resp: 198218

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.8



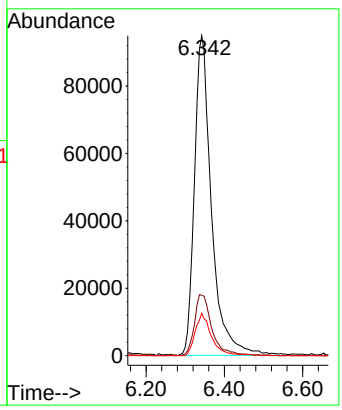


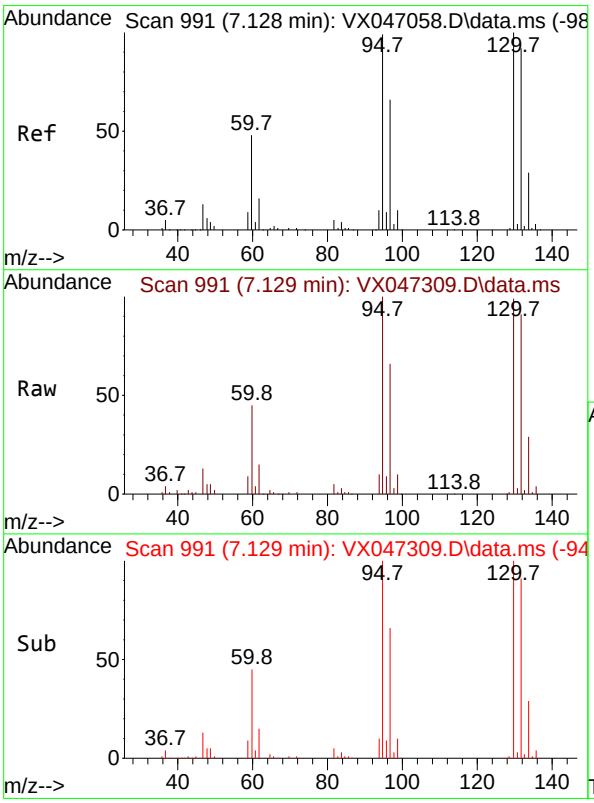
#43
Isopropyl Acetate
Concen: 55.423 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 287722

Ion	Ratio	Lower	Upper
43	100		
61	19.6	15.1	22.7
87	12.7	9.7	14.5

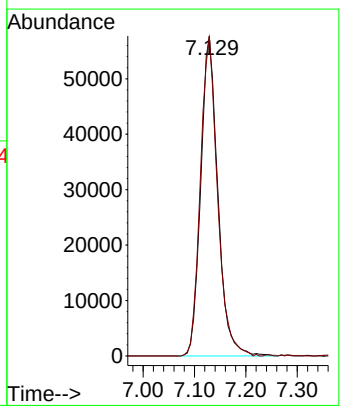


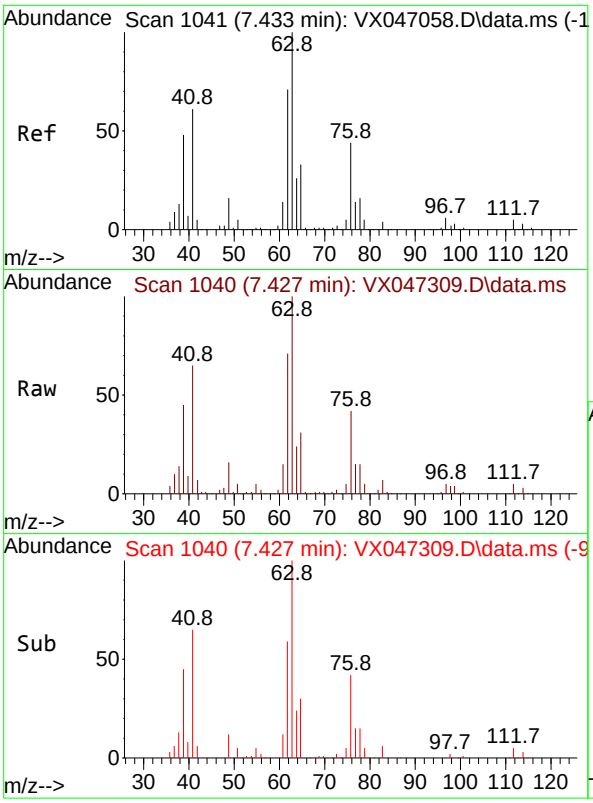


#44
Trichloroethene
Concen: 49.765 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:130 Resp: 133465

Ion	Ratio	Lower	Upper
130	100		
95	100.6	0.0	198.6



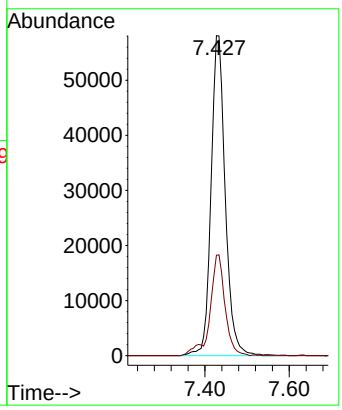


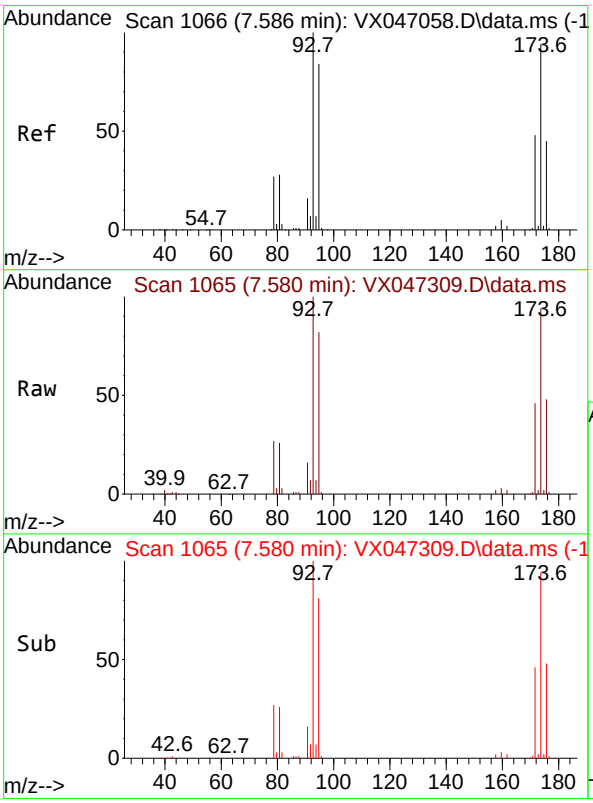
#45
1,2-Dichloropropane
Concen: 51.888 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 135914

Ion	Ratio	Lower	Upper
63	100		
65	31.4	26.3	39.5

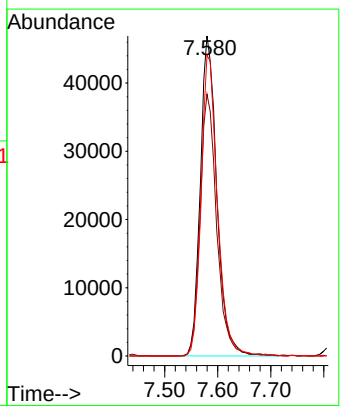


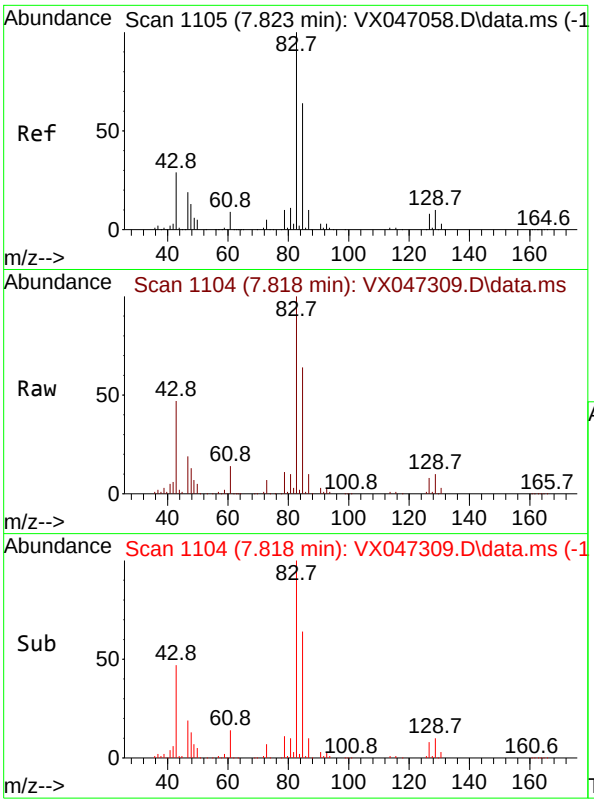


#46
Dibromomethane
Concen: 55.078 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 93 Resp: 101172

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.9	98.9
174	93.1	74.6	112.0



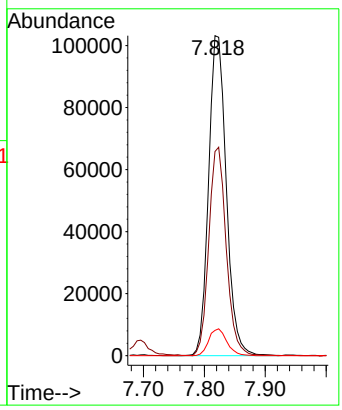


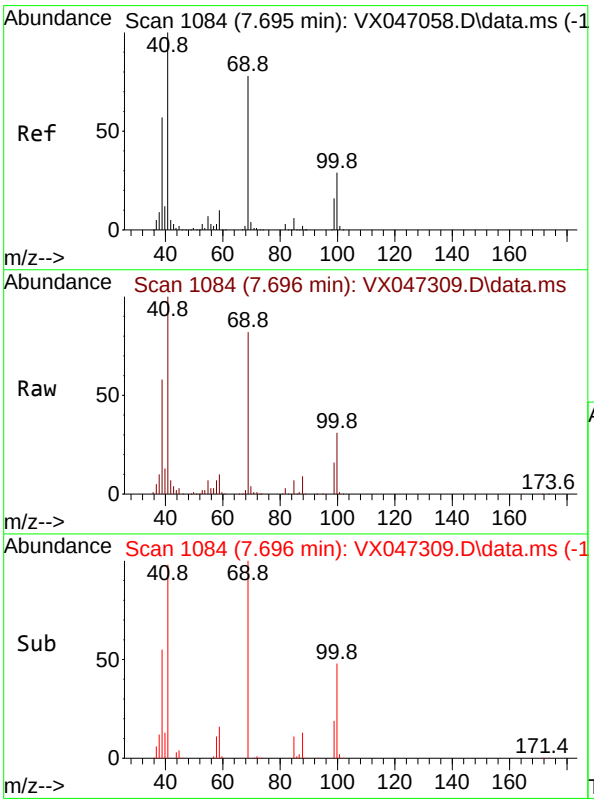
#47
Bromodichloromethane
Concen: 53.254 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 208211

Ion	Ratio	Lower	Upper
83	100		
85	63.7	49.9	74.9
127	7.9	6.6	10.0

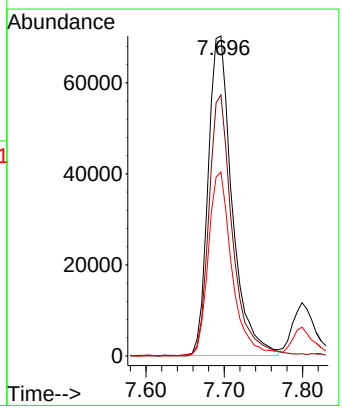


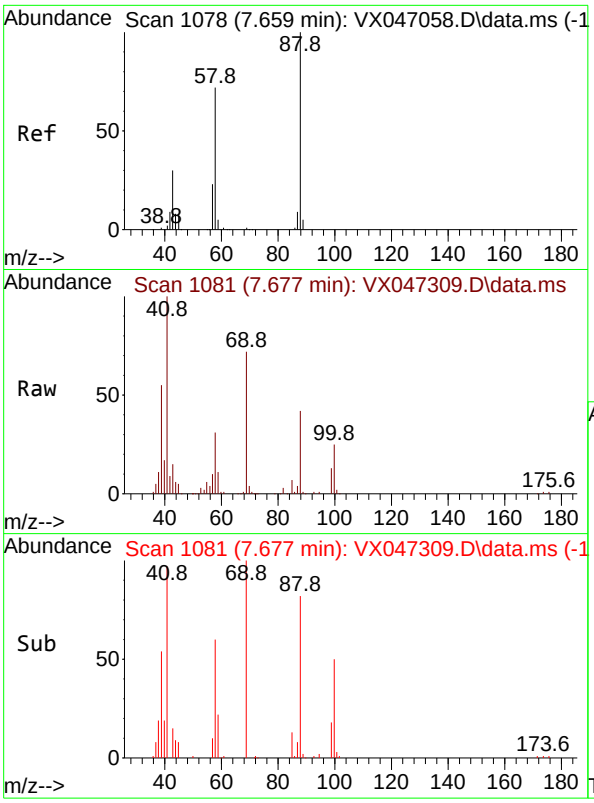


#48
Methyl methacrylate
Concen: 52.829 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 41 Resp: 149404

Ion	Ratio	Lower	Upper
41	100		
69	80.0	62.3	93.5
39	56.7	44.8	67.2



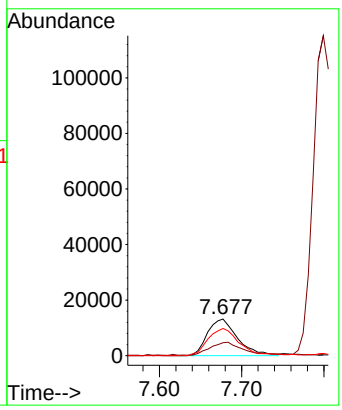


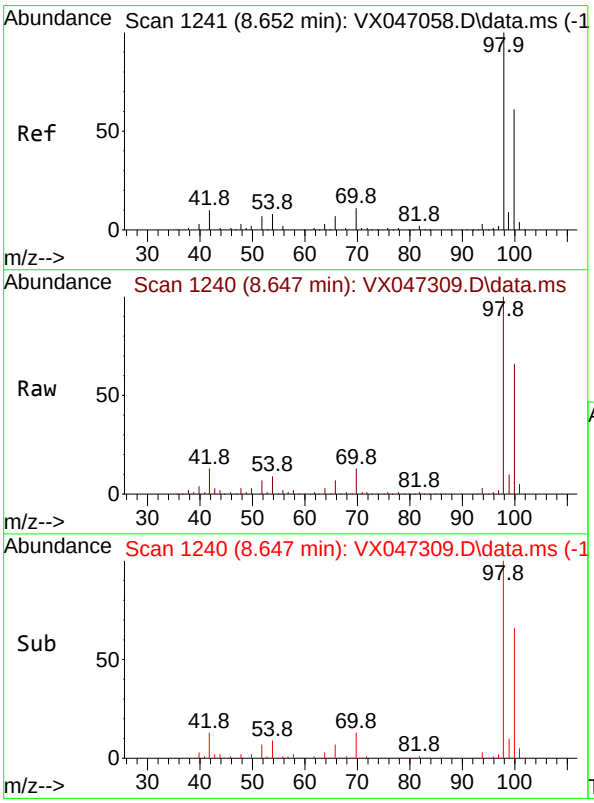
#49
1,4-Dioxane
Concen: 1042.543 ug/l
RT: 7.677 min Scan# 1
Delta R.T. 0.019 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 33534

Ion	Ratio	Lower	Upper
88	100		
43	38.0	33.6	50.4
58	78.7	58.8	88.2

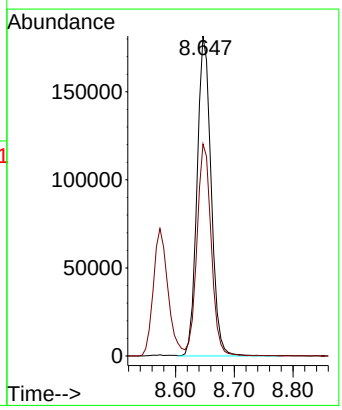


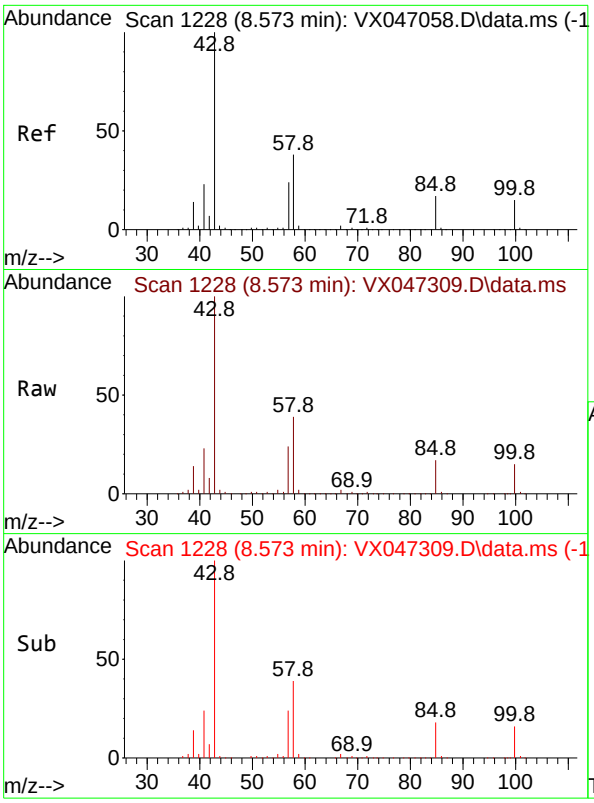


#50
Toluene-d8
Concen: 43.990 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 98 Resp: 302023

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.3	79.9



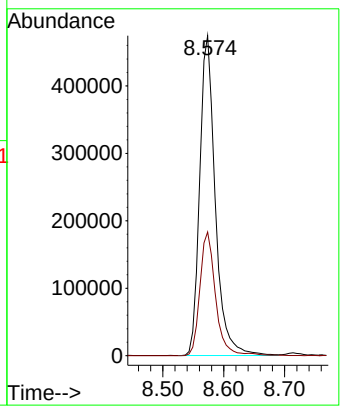


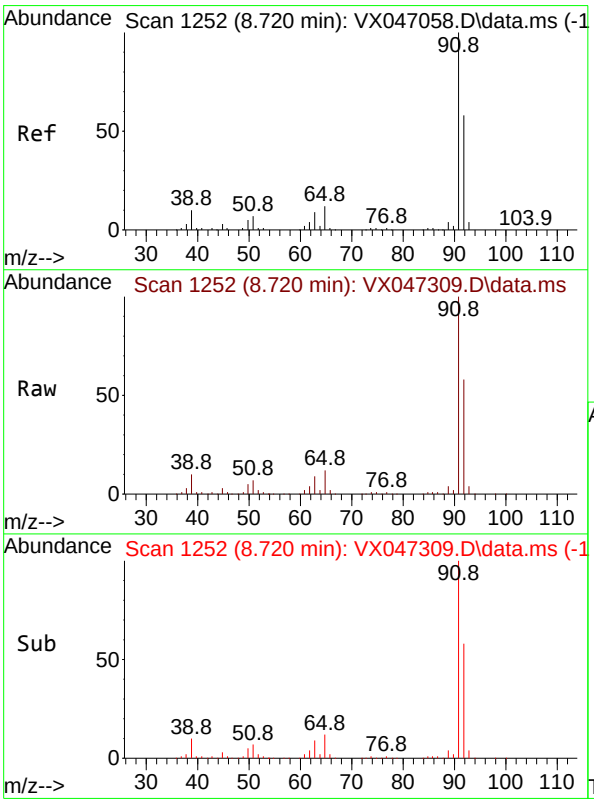
#51
4-Methyl-2-Pentanone
Concen: 274.116 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 845831

Ion	Ratio	Lower	Upper
43	100		
58	39.0	30.6	45.8

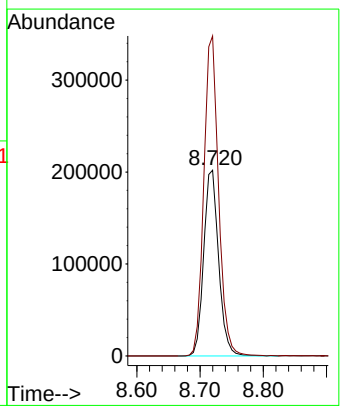


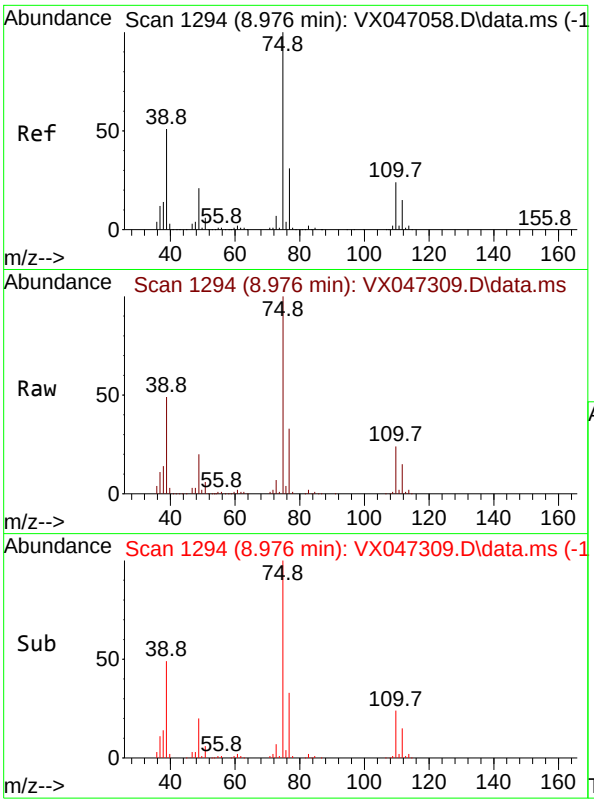


#52
Toluene
Concen: 51.598 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 92 Resp: 331807

Ion	Ratio	Lower	Upper
92	100		
91	169.9	137.9	206.9



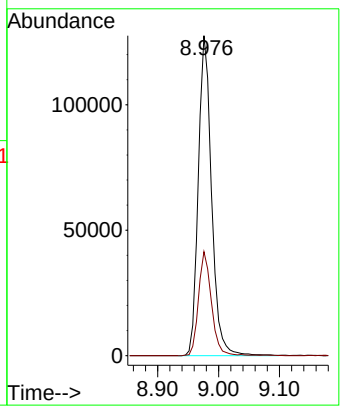


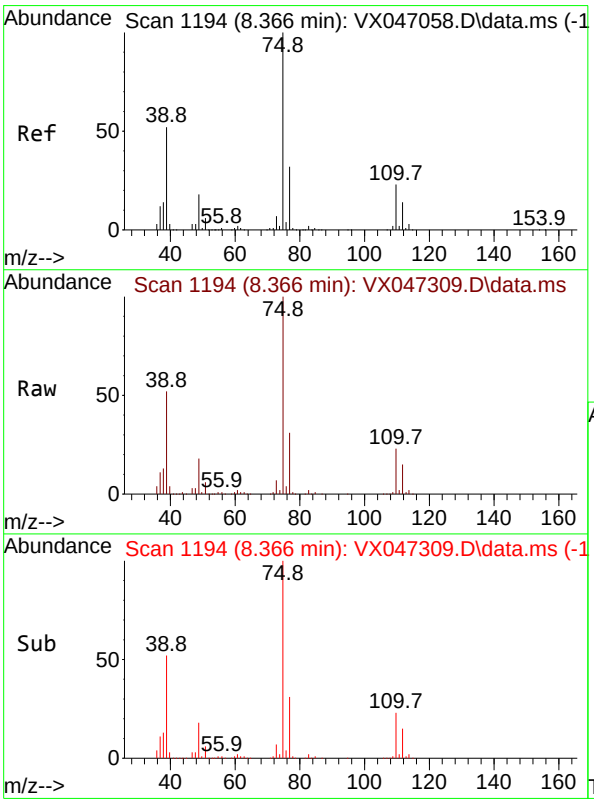
#53
t-1,3-Dichloropropene
Concen: 52.270 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 192983

Ion	Ratio	Lower	Upper
75	100		
77	32.5	24.5	36.7

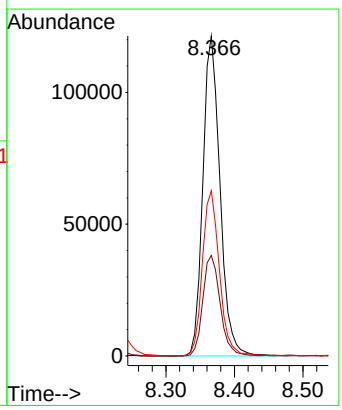


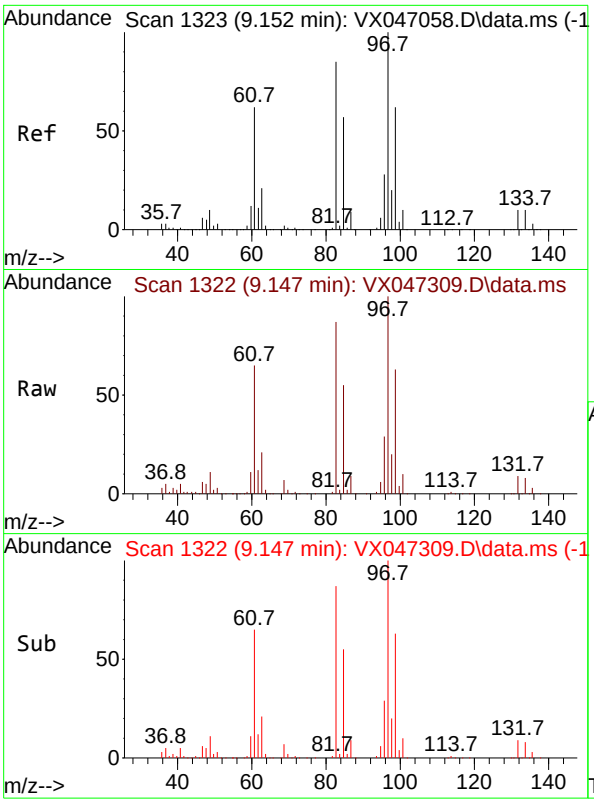


#54
cis-1,3-Dichloropropene
Concen: 52.423 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 75 Resp: 211833

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	50.8	41.8	62.6



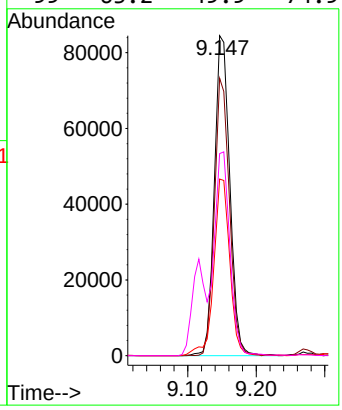


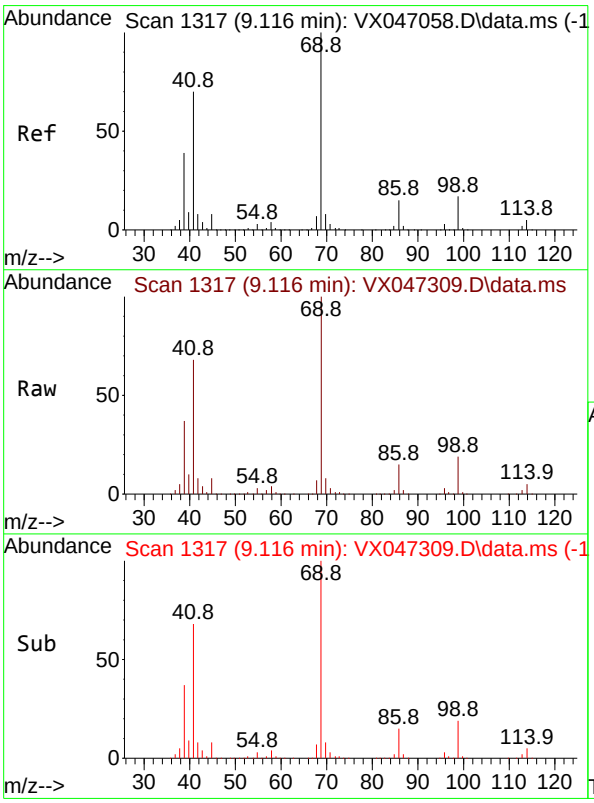
#55
1,1,2-Trichloroethane
Concen: 54.707 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 131934

Ion	Ratio	Lower	Upper
97	100		
83	86.7	68.0	102.0
85	55.2	45.2	67.8
99	63.2	49.9	74.9

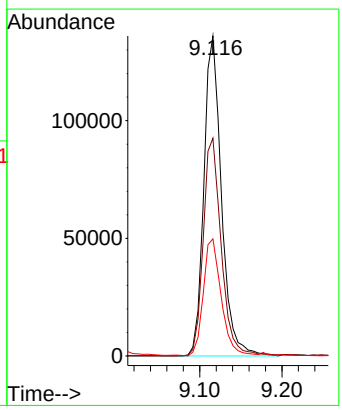


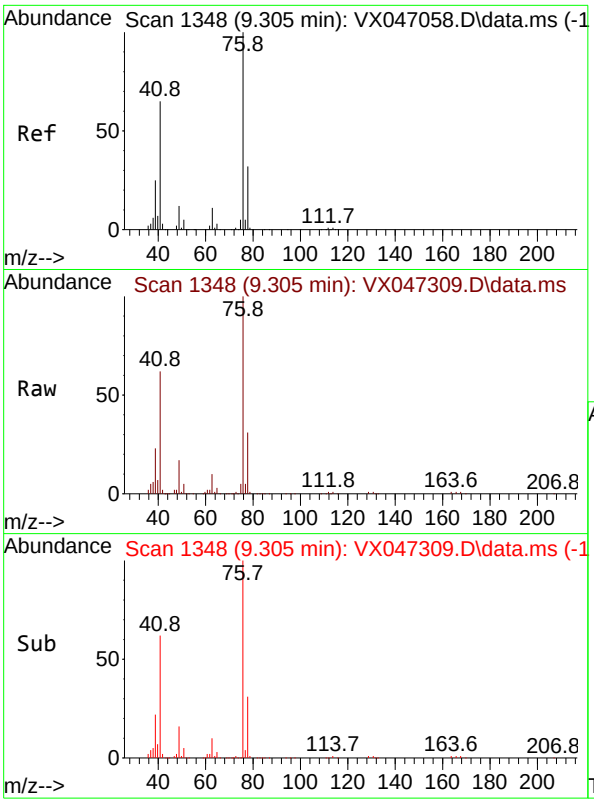


#56
Ethyl methacrylate
Concen: 56.604 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 69 Resp: 202090

Ion	Ratio	Lower	Upper
69	100		
41	69.9	56.1	84.1
39	36.8	31.1	46.7



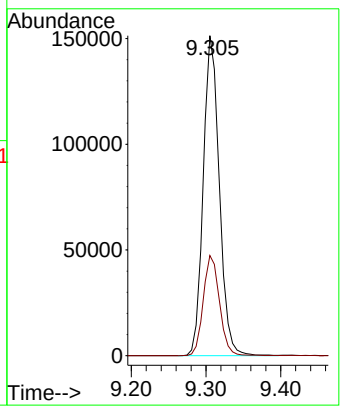


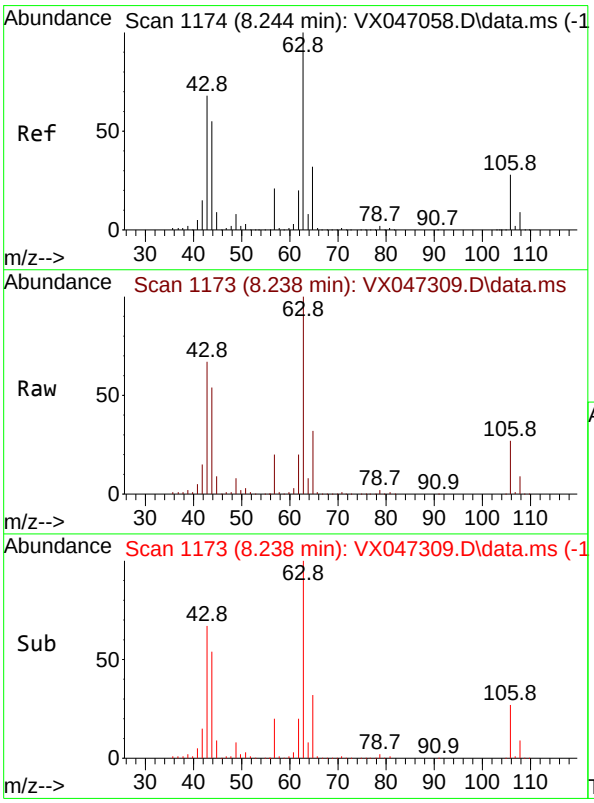
#57
1,3-Dichloropropane
Concen: 53.892 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 225882

Ion	Ratio	Lower	Upper
76	100		
78	31.6	25.5	38.3

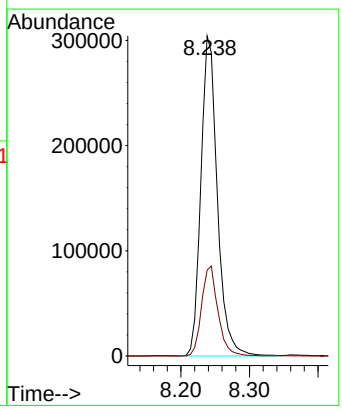


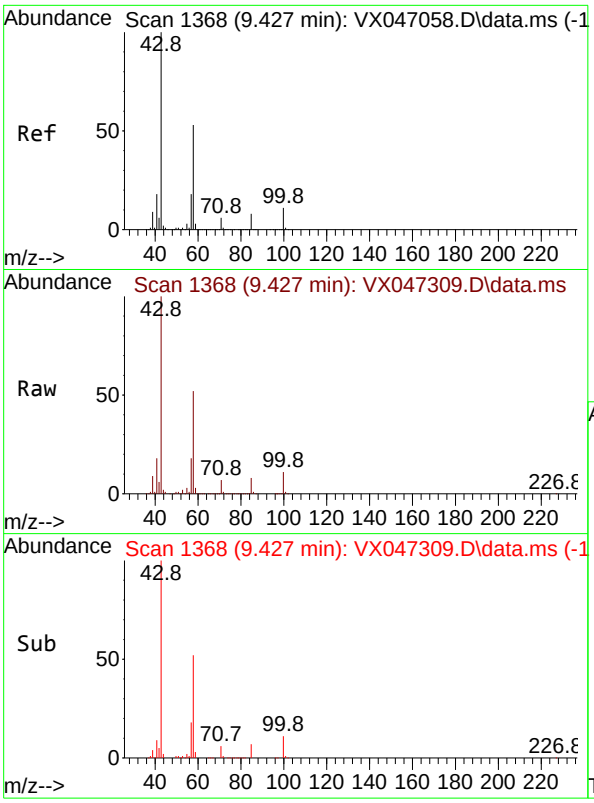


#58
2-Chloroethyl Vinyl ether
Concen: 255.533 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 63 Resp: 507677

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.2	33.4



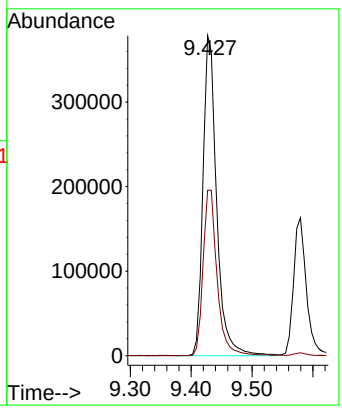


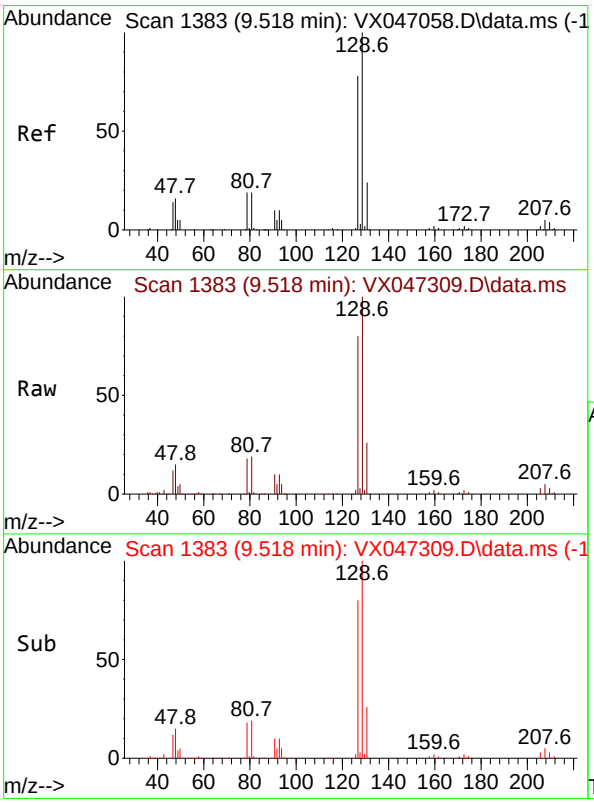
#59
2-Hexanone
Concen: 290.316 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 591849

Ion	Ratio	Lower	Upper
43	100		
58	53.1	26.5	79.5

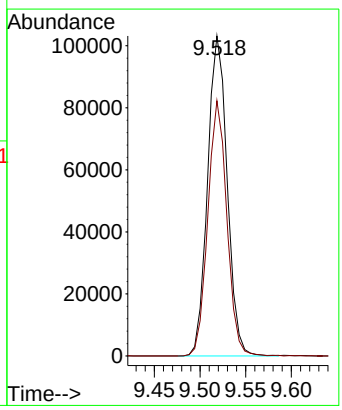


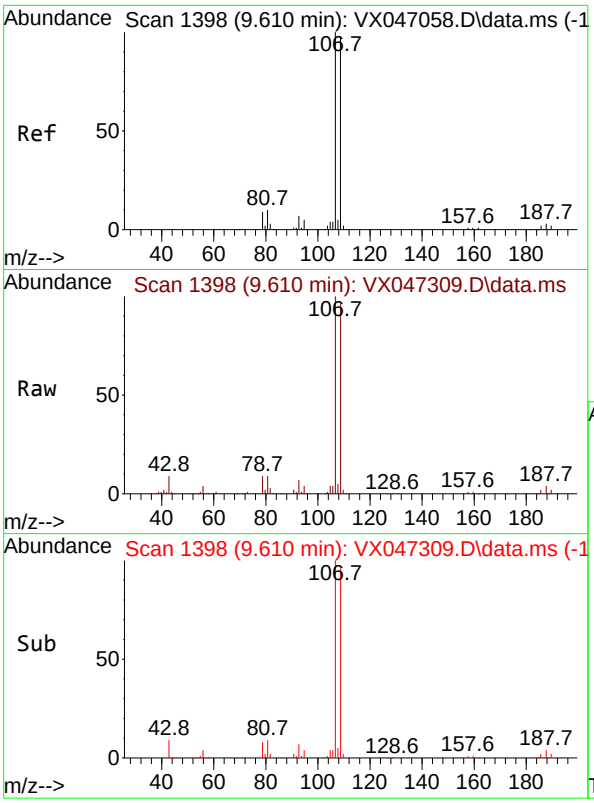


#60
Dibromochloromethane
Concen: 54.334 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:129 Resp: 153681

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.6	115.8



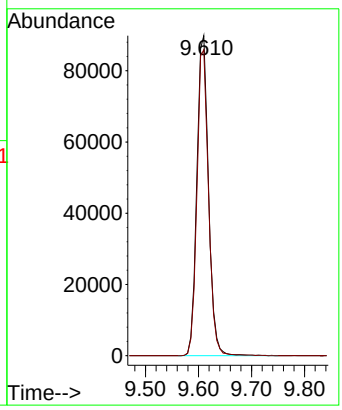


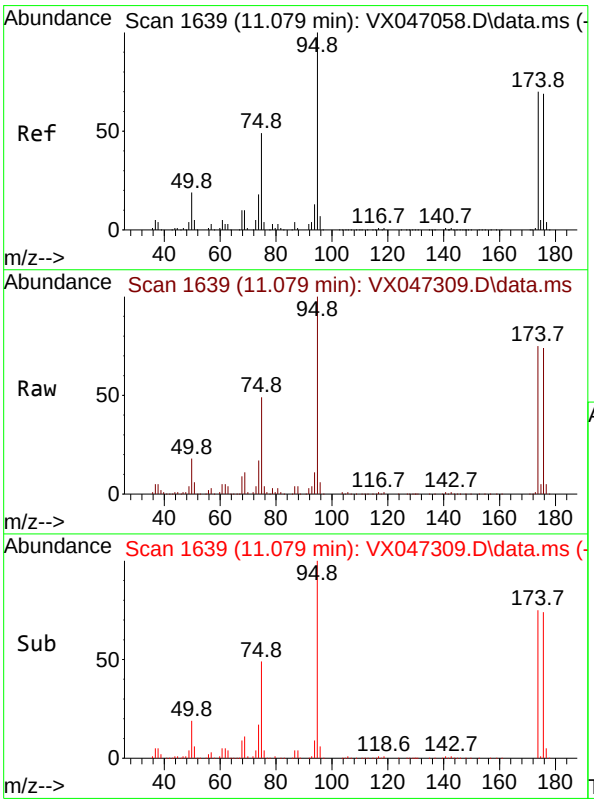
#61
1,2-Dibromoethane
Concen: 54.281 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 136881

Ion	Ratio	Lower	Upper
107	100		
109	95.0	74.6	112.0

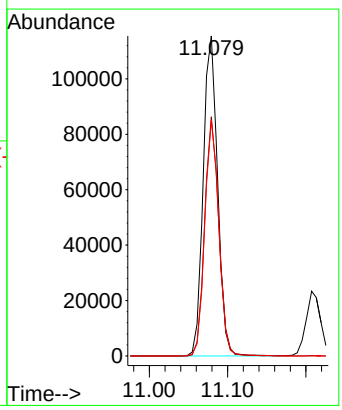


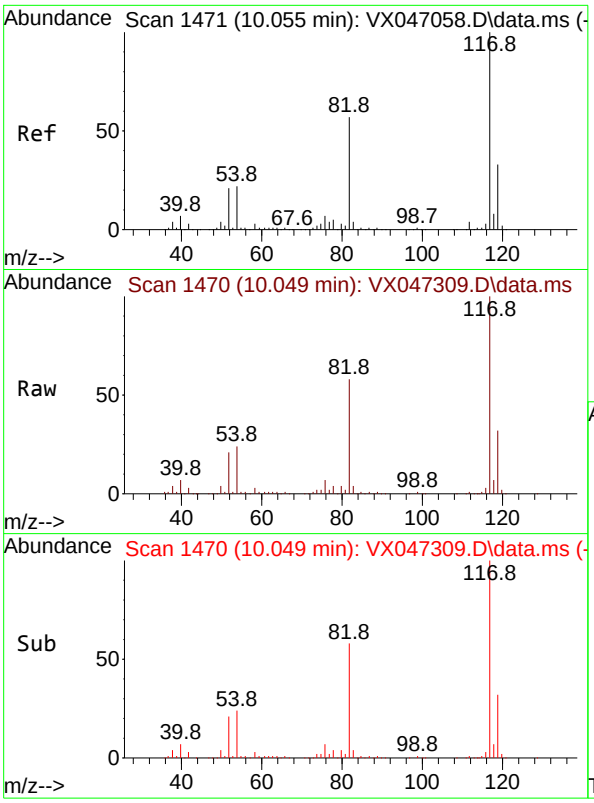


#62
4-Bromofluorobenzene
Concen: 49.666 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 95 Resp: 146951

Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	144.6
176	71.8	0.0	139.6



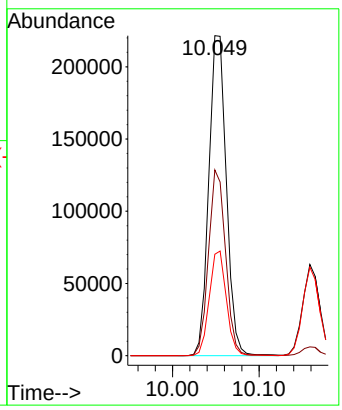


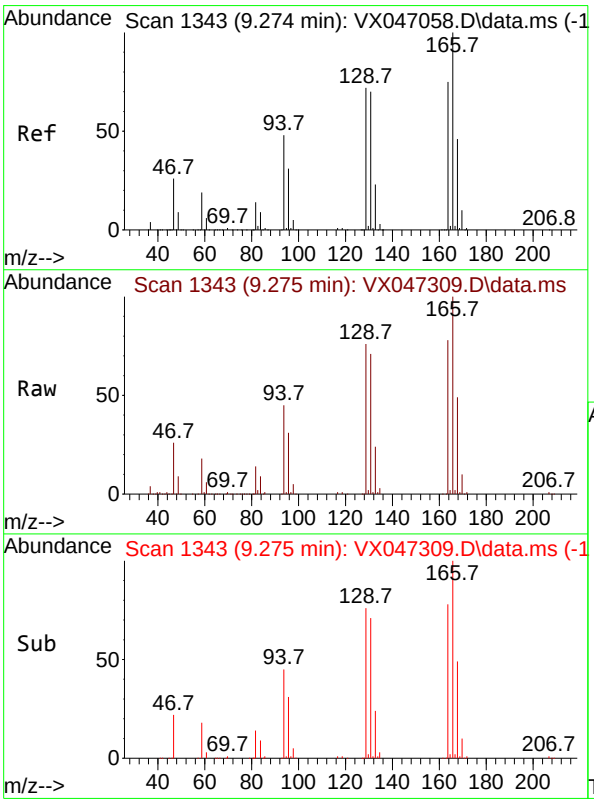
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 311895

Ion	Ratio	Lower	Upper
117	100		
82	58.0	45.4	68.2
119	31.7	26.1	39.1

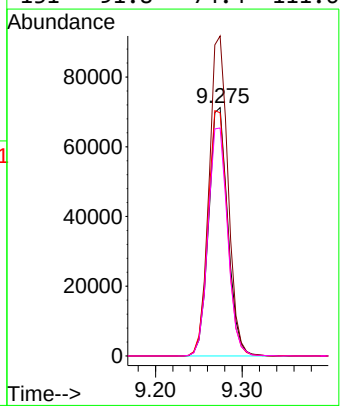


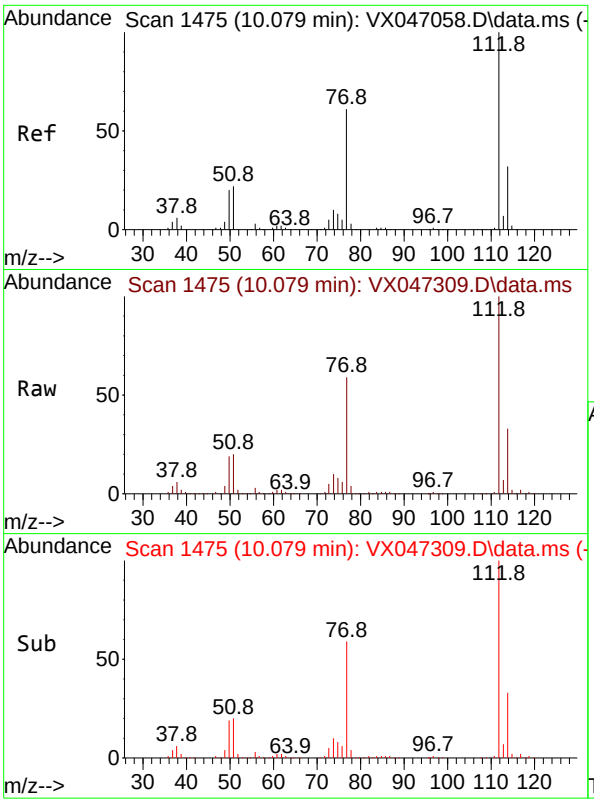


#64
Tetrachloroethene
Concen: 48.451 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:164 Resp: 108938

Ion	Ratio	Lower	Upper
164	100		
166	128.9	106.2	159.4
129	98.0	76.6	114.8
131	91.8	74.4	111.6



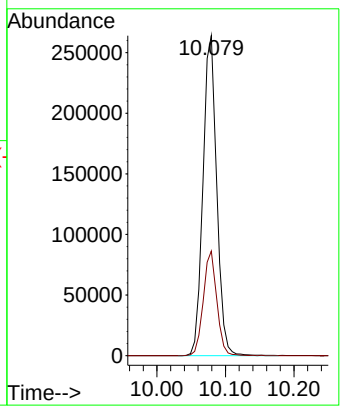


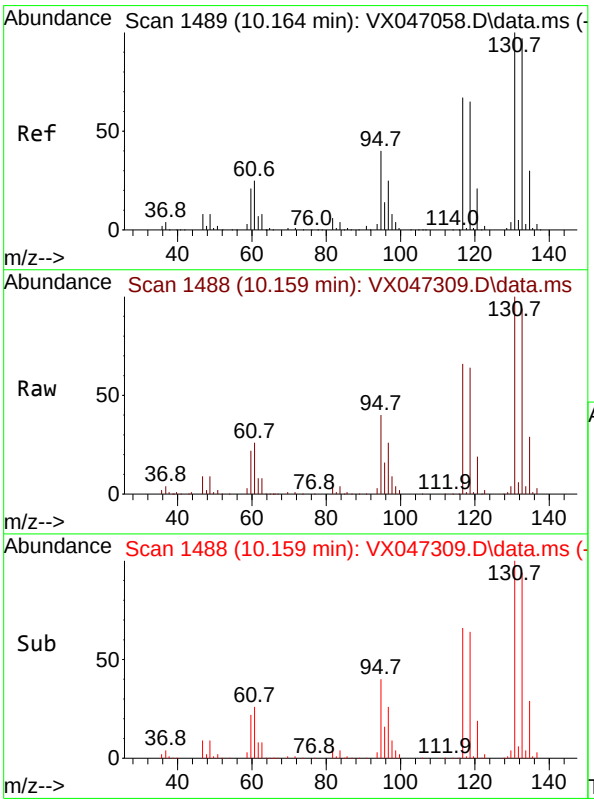
#65
Chlorobenzene
Concen: 50.536 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 369251

Ion	Ratio	Lower	Upper
112	100		
114	32.7	25.8	38.6

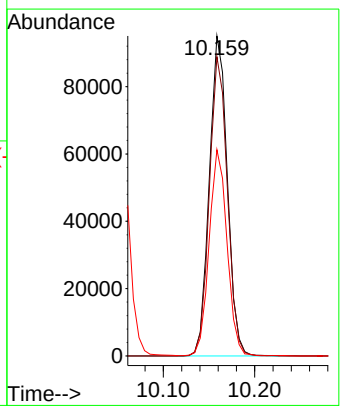


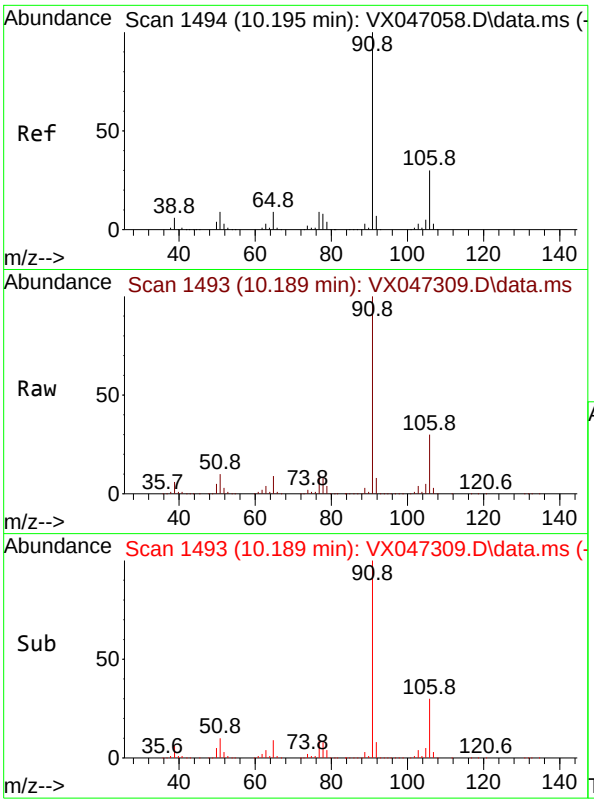


#66
1,1,1,2-Tetrachloroethane
Concen: 52.854 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:131 Resp: 130021

Ion	Ratio	Lower	Upper
131	100		
133	93.6	48.4	145.3
119	64.0	32.4	97.0



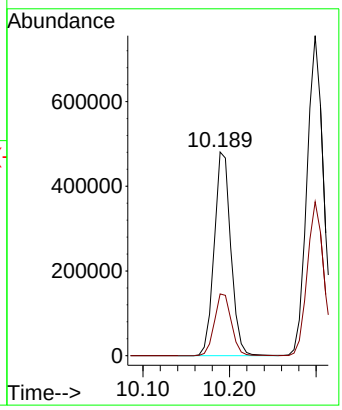


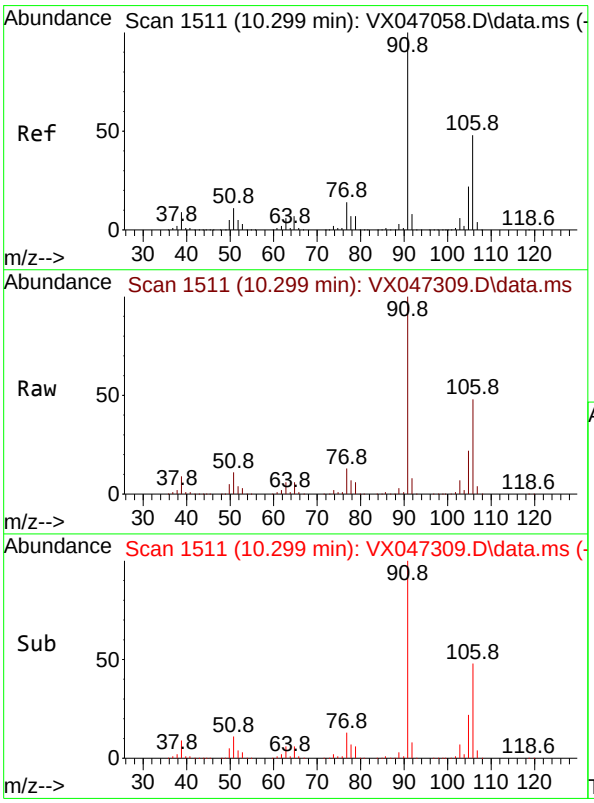
#67
Ethyl Benzene
Concen: 50.127 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 640387

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.2	36.4

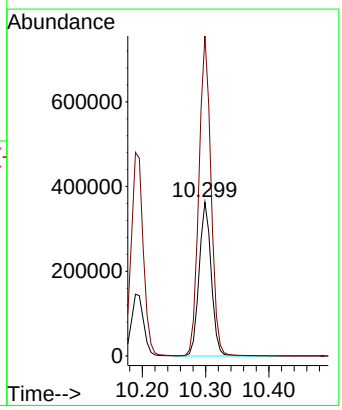


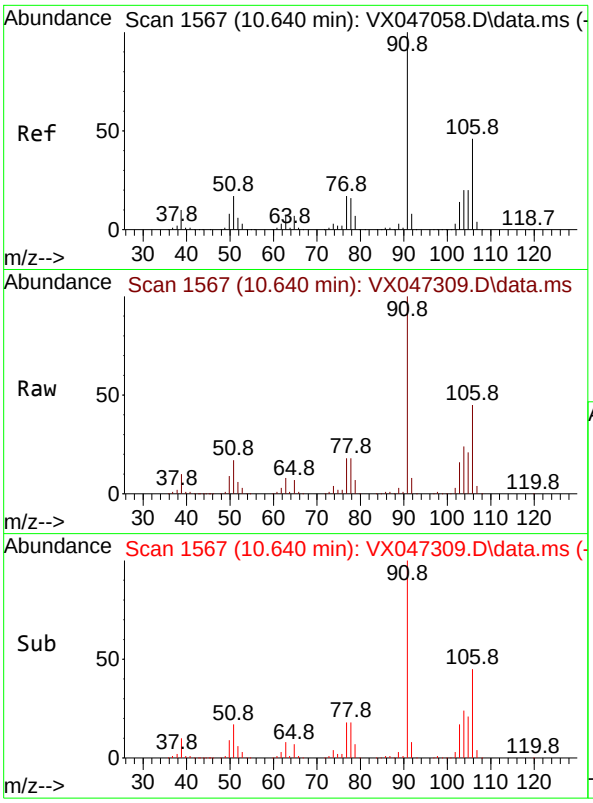


#68
m/p-Xylenes
Concen: 100.800 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:106 Resp: 481905

Ion	Ratio	Lower	Upper
106	100		
91	208.6	167.4	251.0



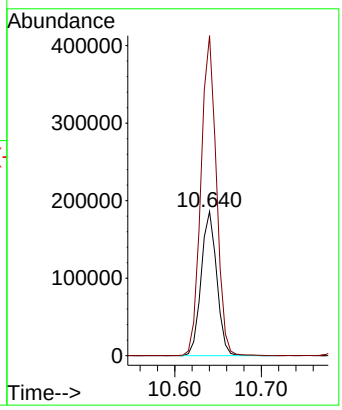


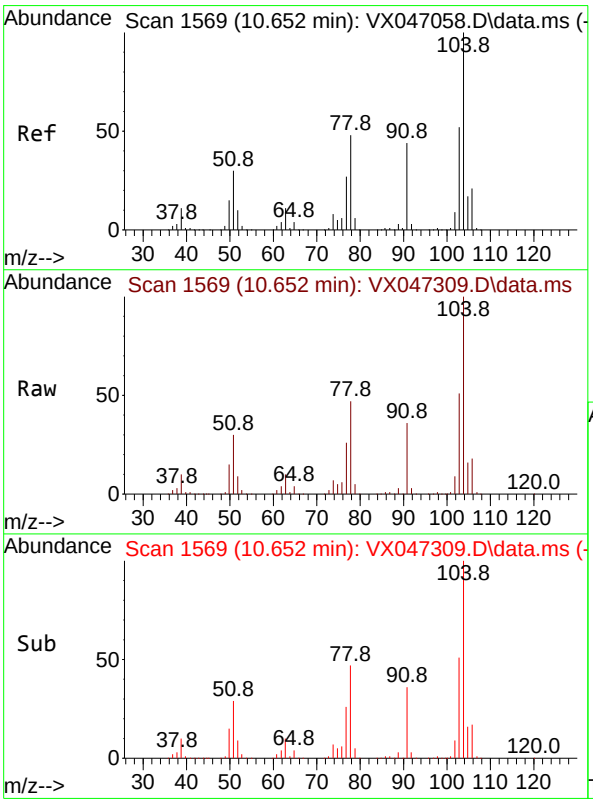
#69
o-Xylene
Concen: 51.121 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 232501

Ion	Ratio	Lower	Upper
106	100		
91	220.5	110.3	331.0

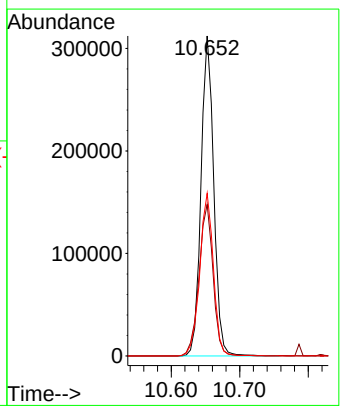


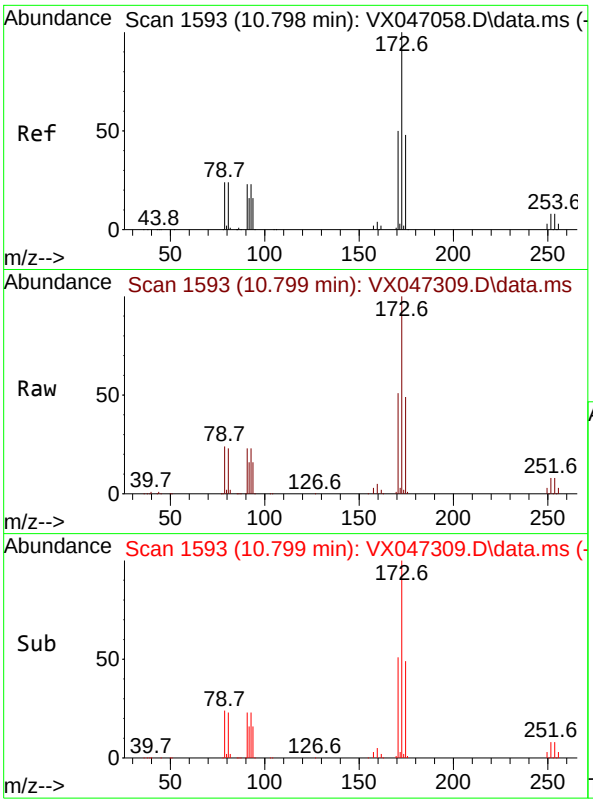


#70
Styrene
Concen: 51.852 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:104 Resp: 404384

Ion	Ratio	Lower	Upper
104	100		
78	52.4	42.0	63.0
103	54.7	43.8	65.6



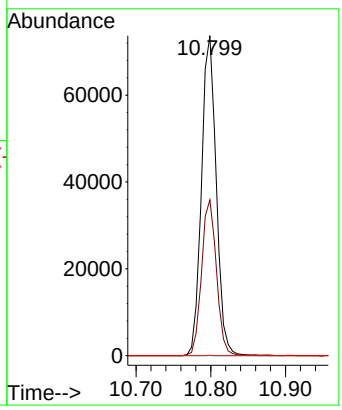


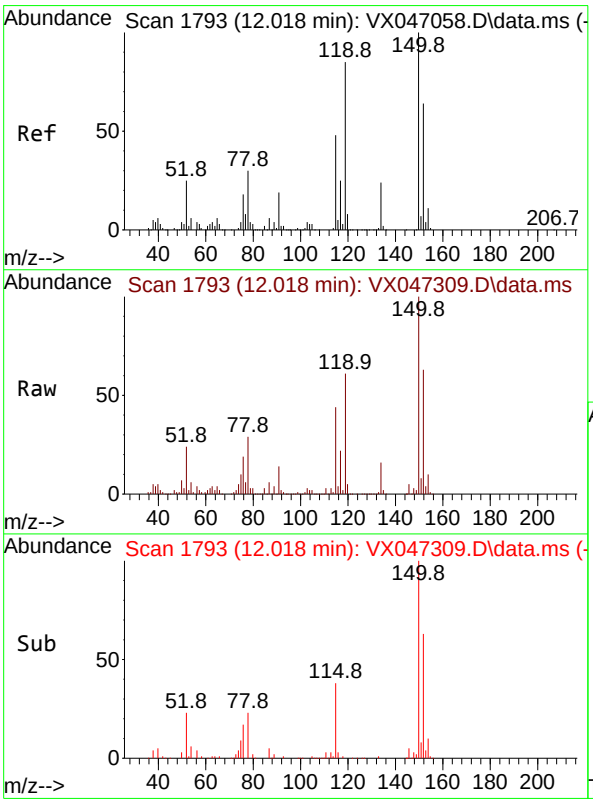
#71
Bromoform
Concen: 54.108 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 101111

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.2	72.6
254	0.0	0.1	0.1#

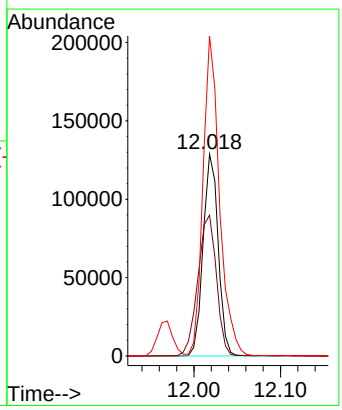


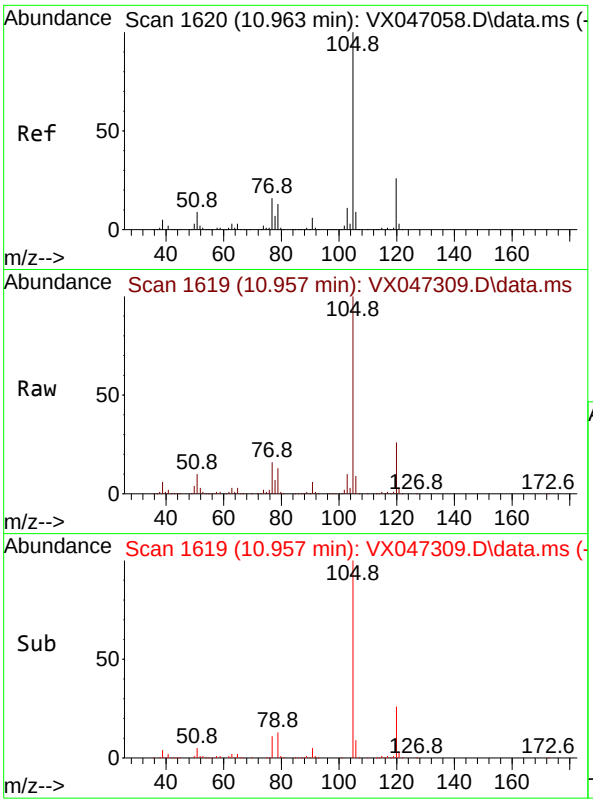


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:152 Resp: 156059

Ion	Ratio	Lower	Upper
152	100		
115	85.9	45.6	136.7
150	173.3	0.0	354.6



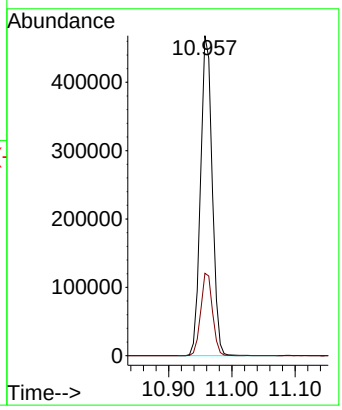


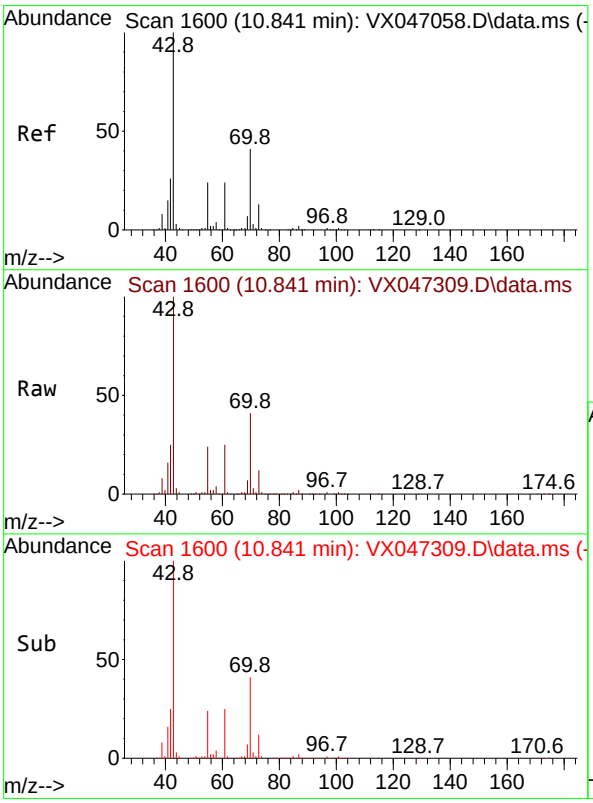
#73
Isopropylbenzene
Concen: 48.889 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 601920

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.7

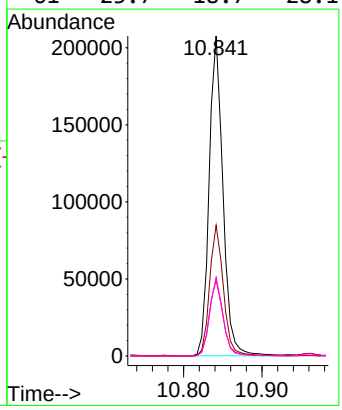


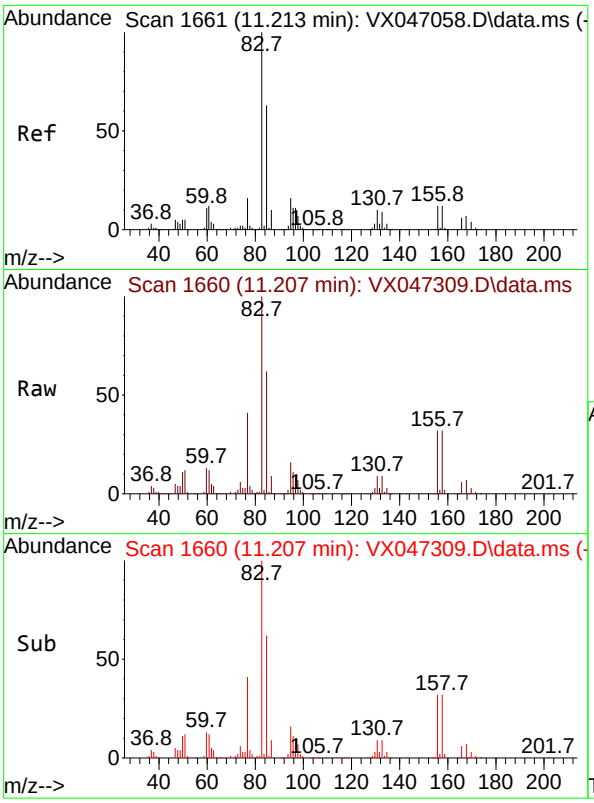


#74
N-amyl acetate
Concen: 51.043 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 43 Resp: 253569

Ion	Ratio	Lower	Upper
43	100		
70	41.0	32.3	48.5
55	23.9	18.9	28.3
61	23.7	18.7	28.1



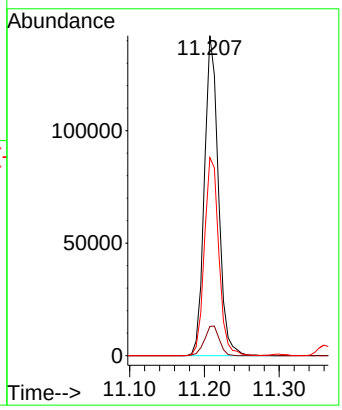


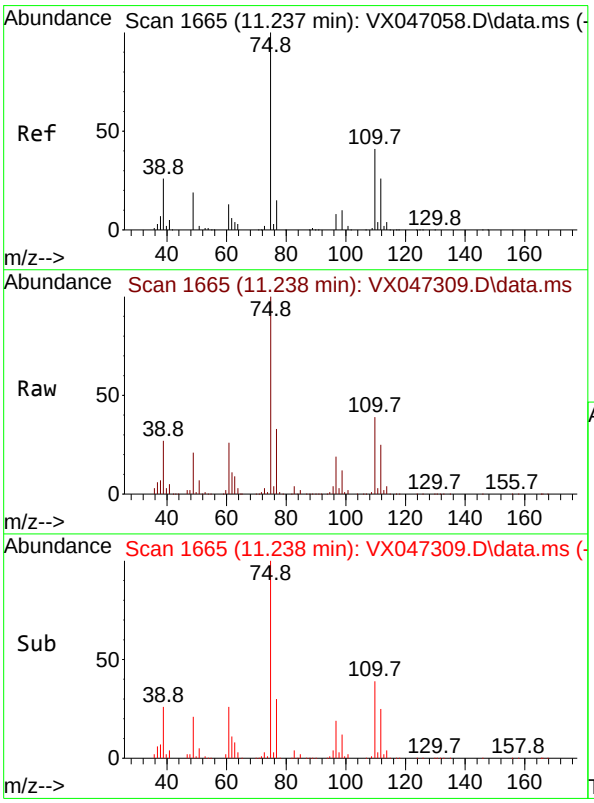
#75
1,1,2,2-Tetrachloroethane
Concen: 52.547 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 184802

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	63.8	32.0	96.2

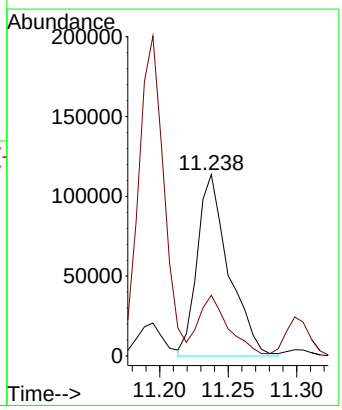


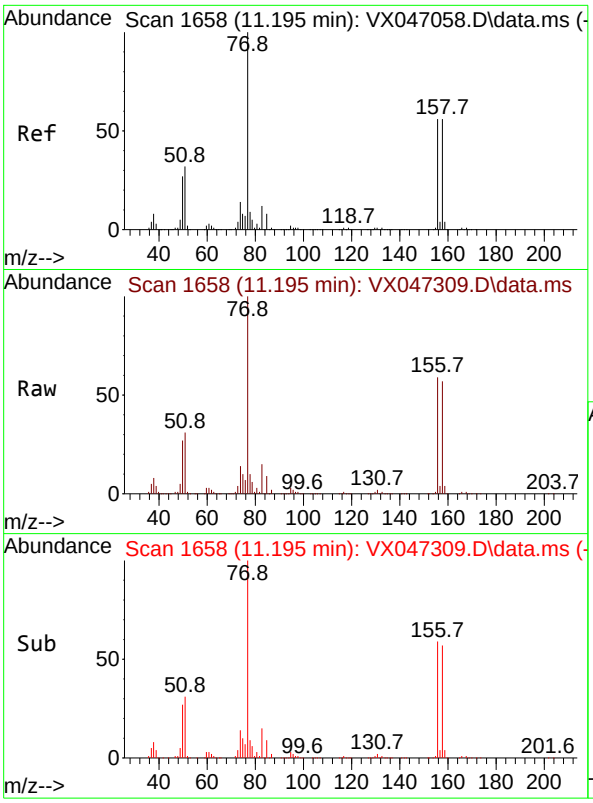


#76
1,2,3-Trichloropropane
Concen: 62.874 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 75 Resp: 181616

Ion	Ratio	Lower	Upper
75	100		
77	31.8	21.6	65.0



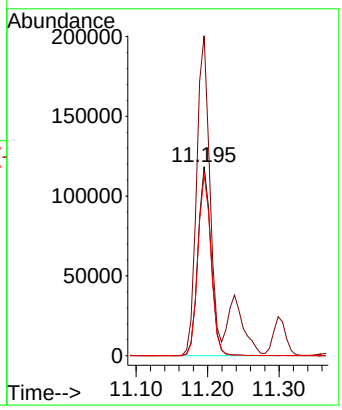


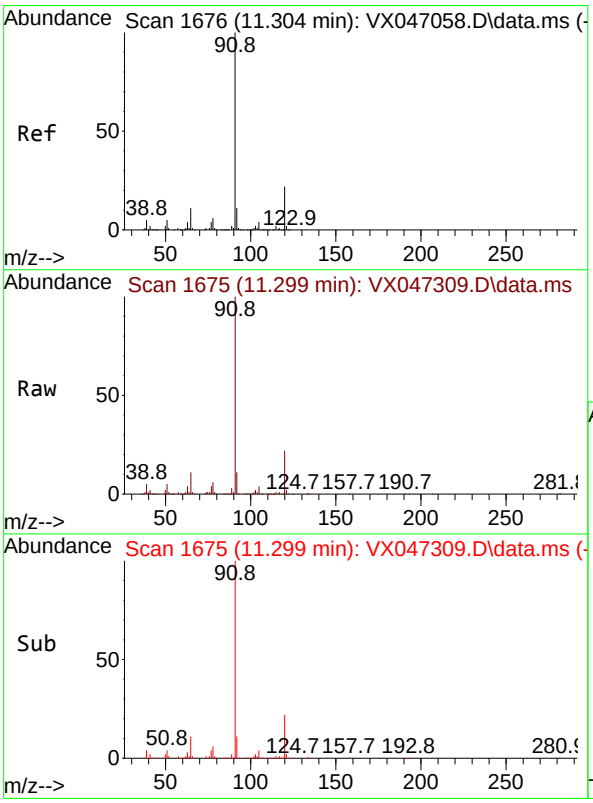
#77
Bromobenzene
Concen: 50.657 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 149595

Ion	Ratio	Lower	Upper
156	100		
77	171.6	87.3	261.9
158	96.9	48.9	146.6

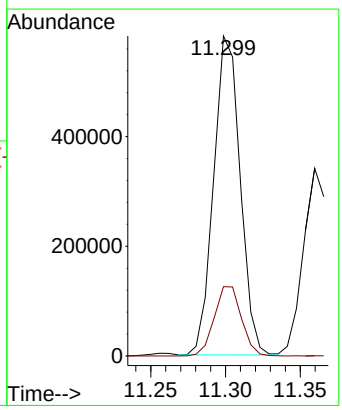


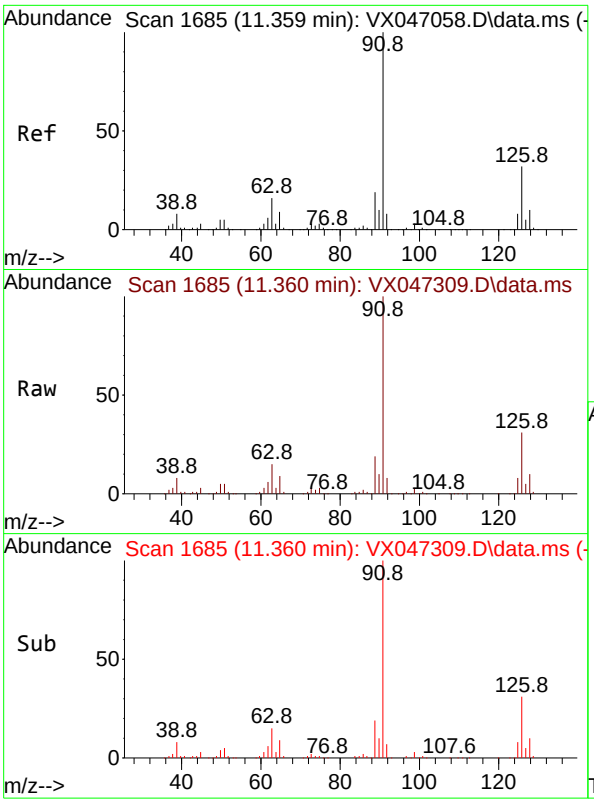


#78
n-propylbenzene
Concen: 48.787 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 91 Resp: 717788

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.0	33.0



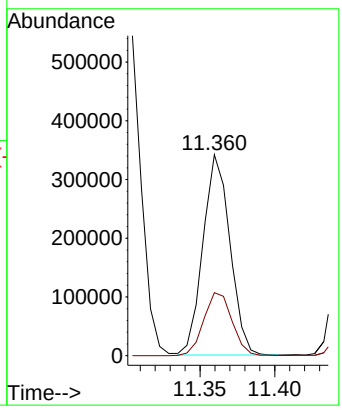


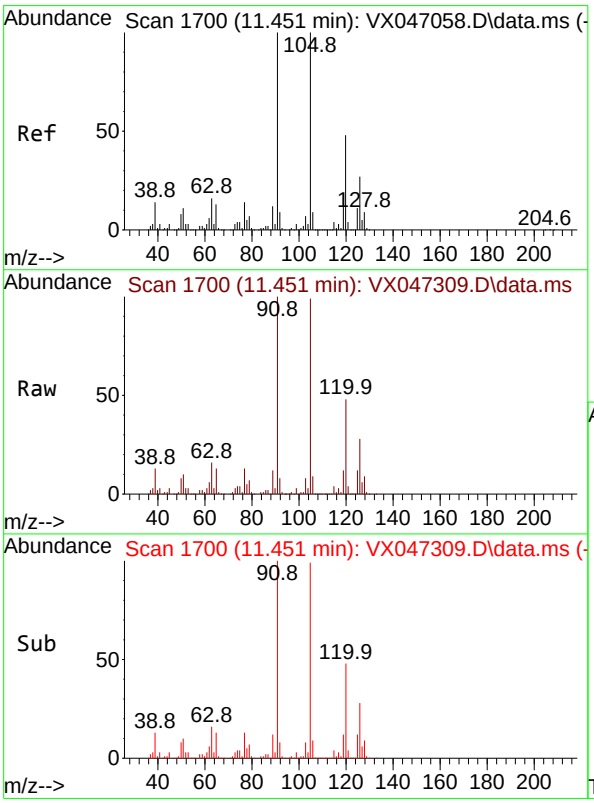
#79
2-Chlorotoluene
Concen: 48.791 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 429105

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.4

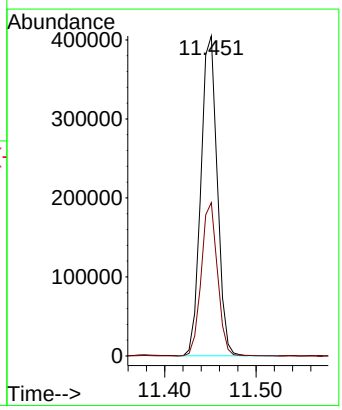


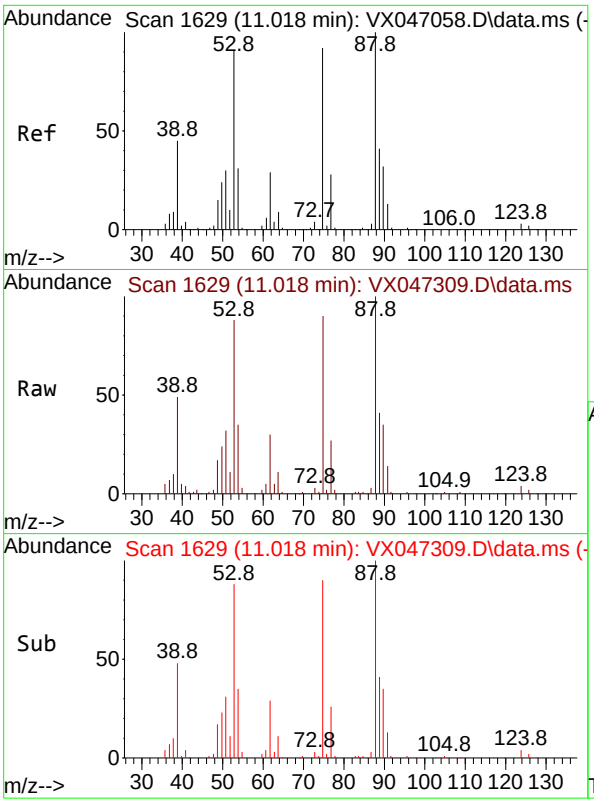


#80
1,3,5-Trimethylbenzene
Concen: 49.416 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:105 Resp: 502646

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.8	71.5



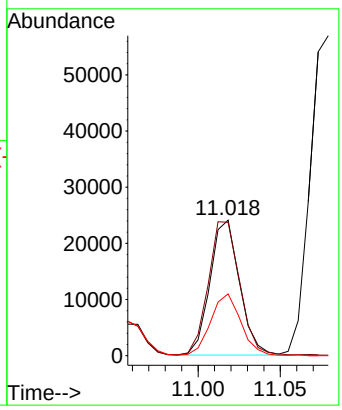


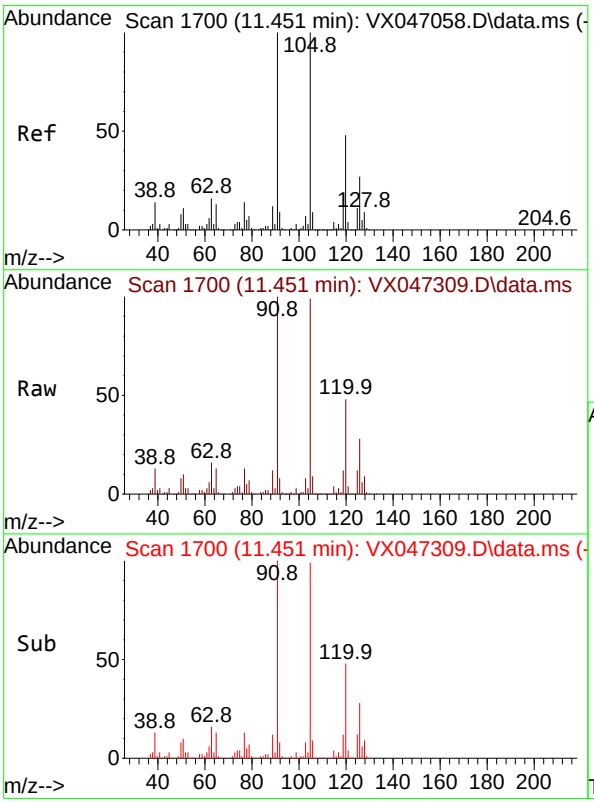
#81
trans-1,4-Dichloro-2-butene
Concen: 26.822 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 30072

Ion	Ratio	Lower	Upper
75	100		
53	106.8	84.2	126.4
89	47.2	36.0	54.0

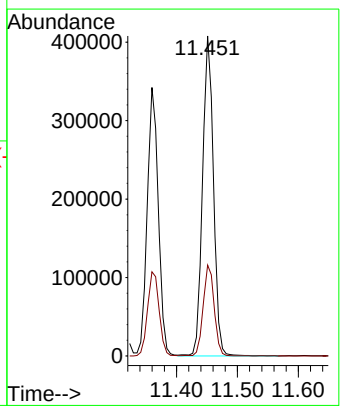


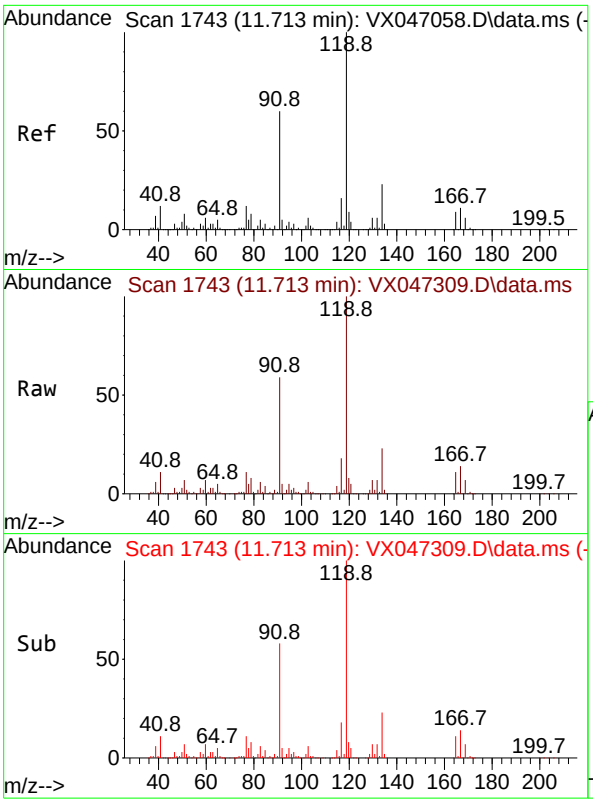


#82
4-Chlorotoluene
Concen: 49.625 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 91 Resp: 509422

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.1	42.3



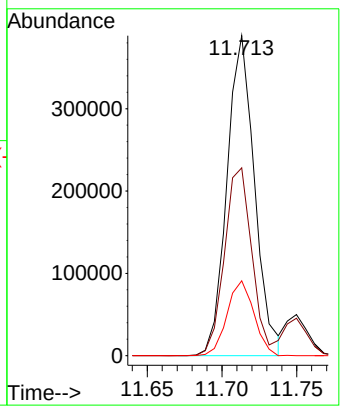


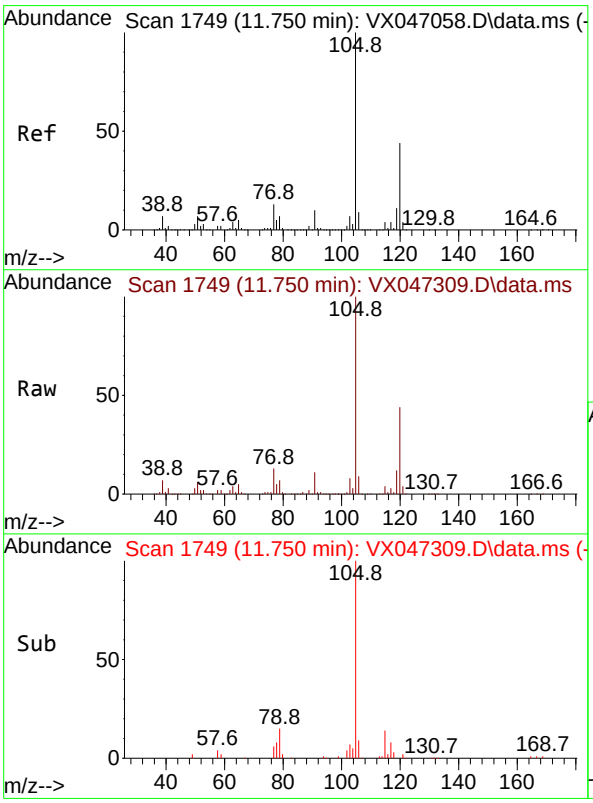
#83
tert-Butylbenzene
Concen: 48.901 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 499240

Ion	Ratio	Lower	Upper
119	100		
91	58.0	29.6	88.8
134	22.8	11.4	34.1

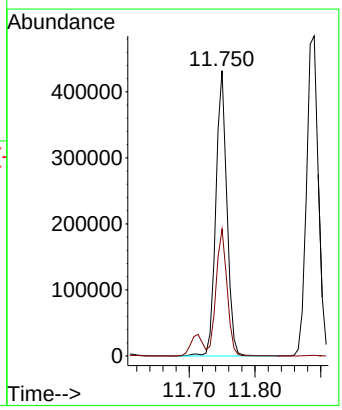


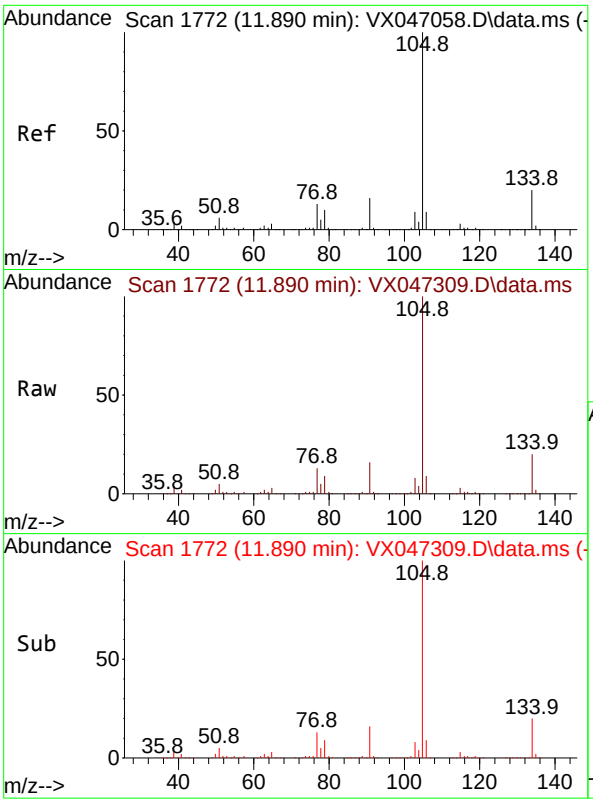


#84
1,2,4-Trimethylbenzene
Concen: 49.654 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:105 Resp: 503767

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.0	66.0



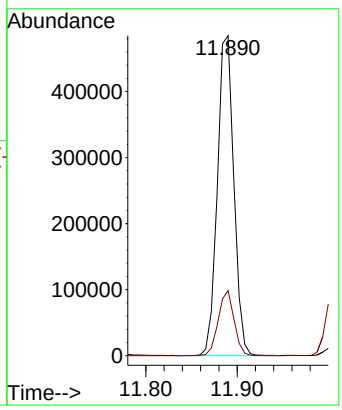


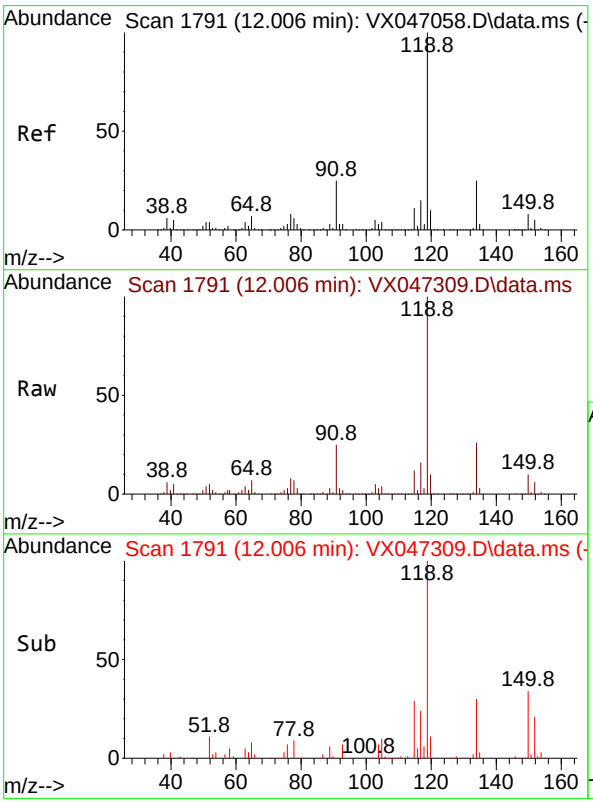
#85
sec-Butylbenzene
Concen: 47.627 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 607529

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.9	29.7

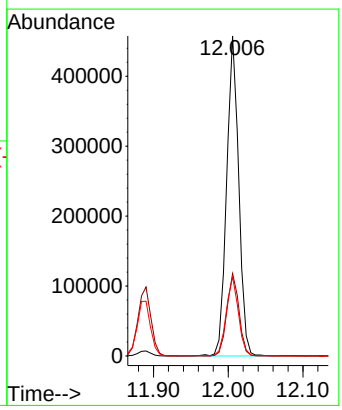


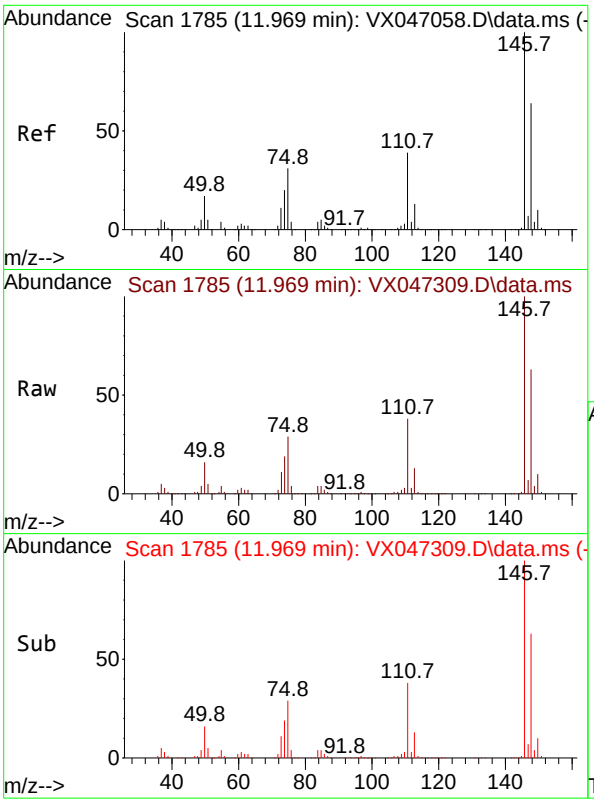


#86
p-Isopropyltoluene
Concen: 48.530 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:119 Resp: 513359

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.8	38.4
91	24.8	12.4	37.4



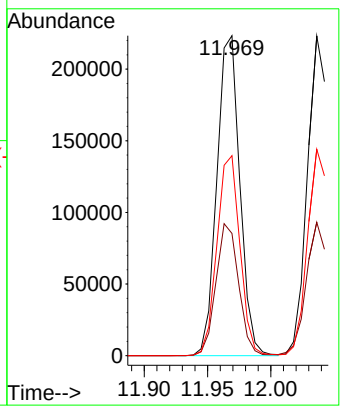


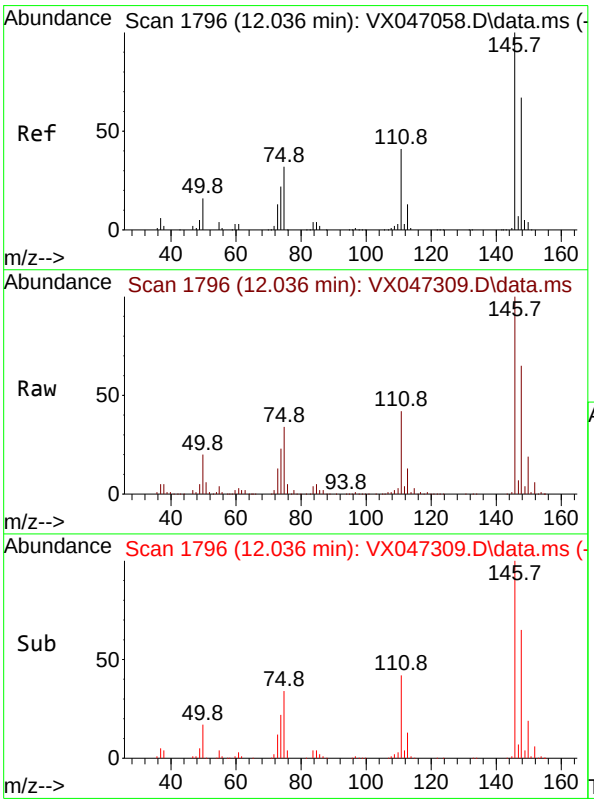
#87
1,3-Dichlorobenzene
Concen: 50.187 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 281606

Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.0	63.0
148	62.7	32.0	96.0

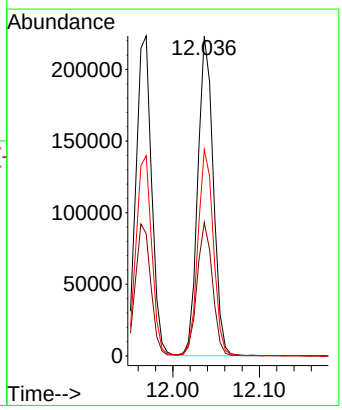


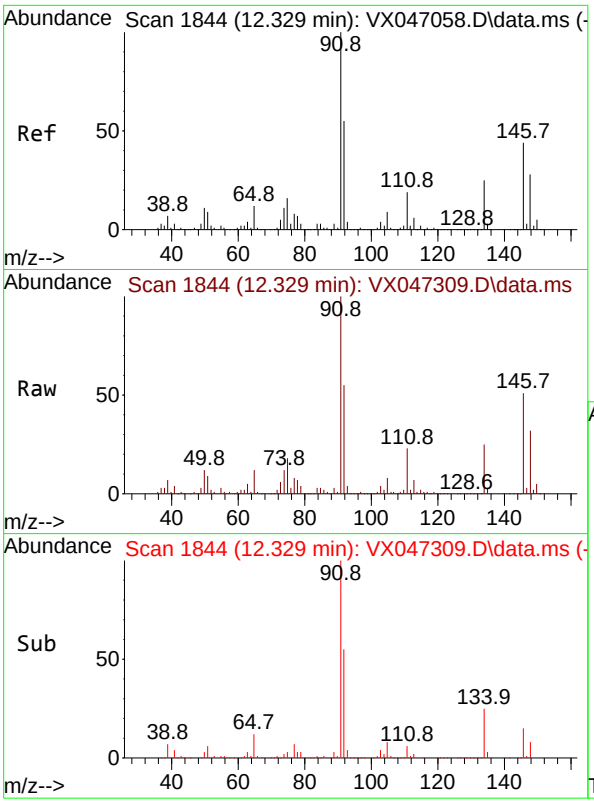


#88
1,4-Dichlorobenzene
Concen: 48.680 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:146 Resp: 276736

Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.6	61.9
148	65.0	33.0	98.9



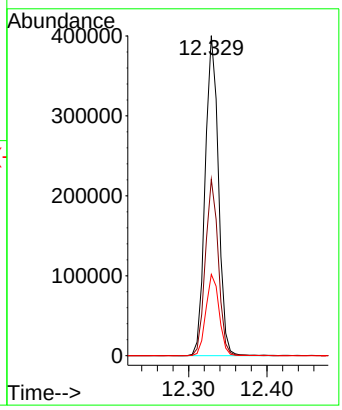


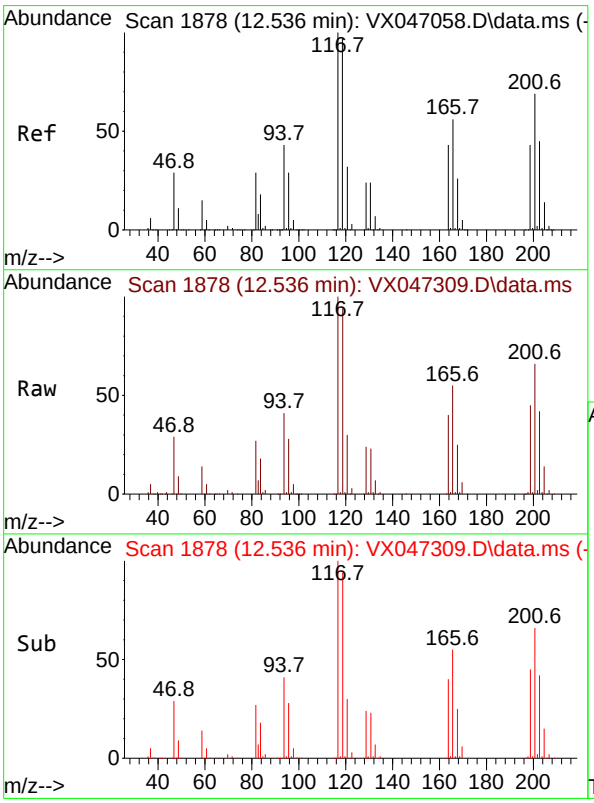
#89
n-Butylbenzene
Concen: 47.162 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 467854

Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.5	82.5
134	25.4	12.8	38.3

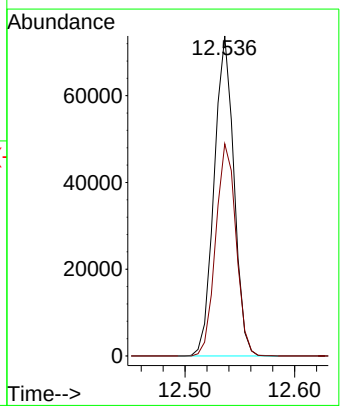


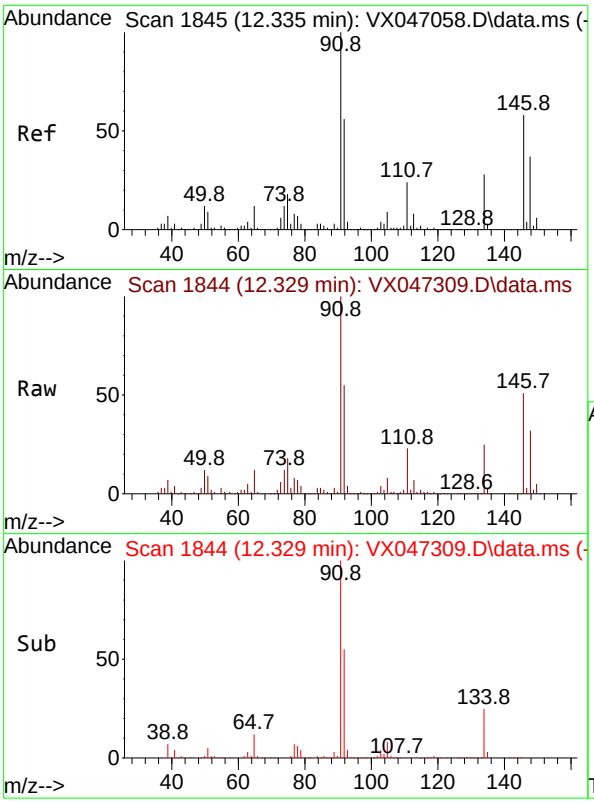


#90
Hexachloroethane
Concen: 48.954 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:117 Resp: 92640

Ion	Ratio	Lower	Upper
117	100		
201	68.1	34.8	104.5



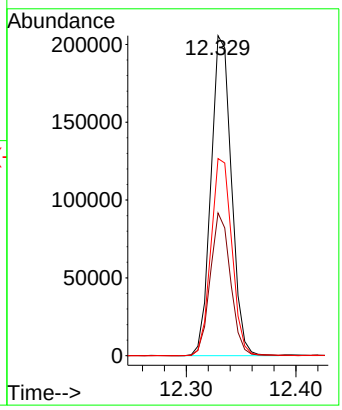


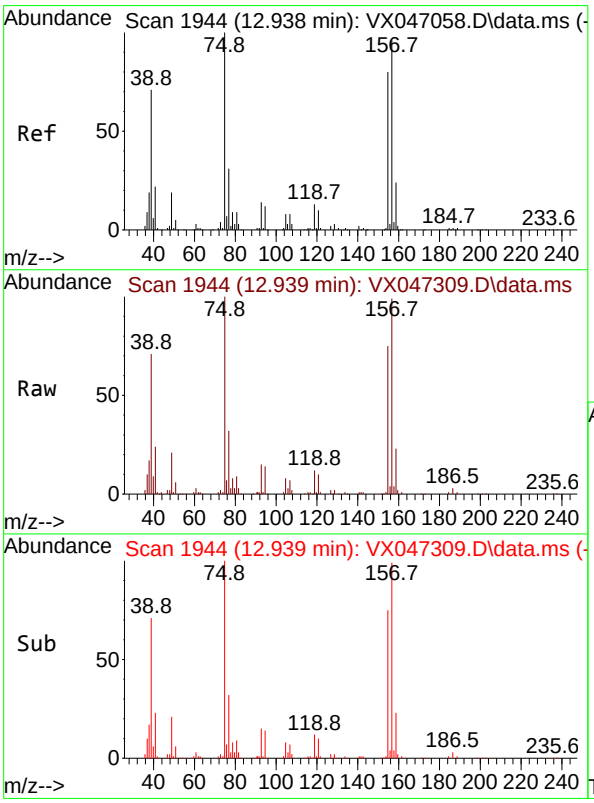
#91
1,2-Dichlorobenzene
Concen: 49.711 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 266592

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.6	64.6
148	63.2	31.9	95.7

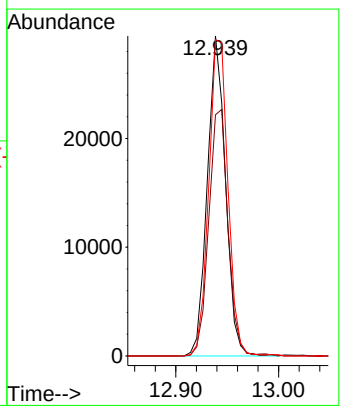


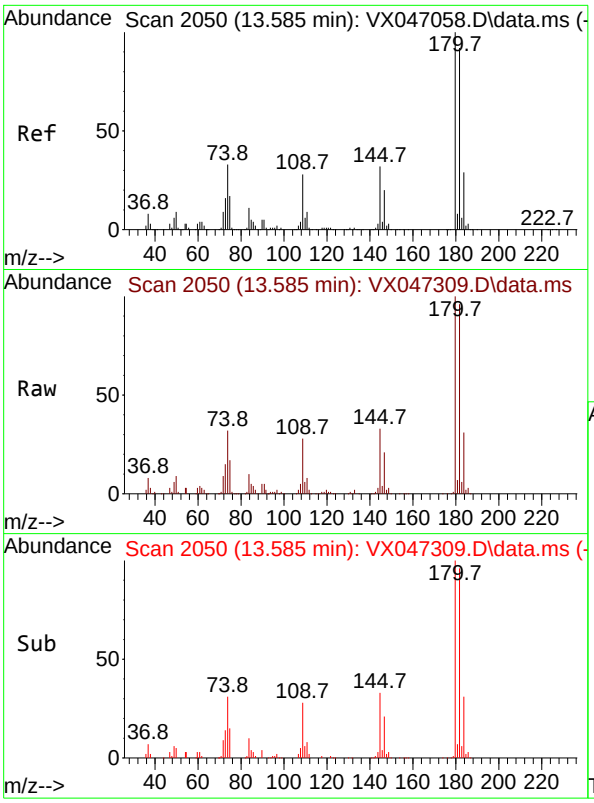


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.598 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion: 75 Resp: 36183

Ion	Ratio	Lower	Upper
75	100		
155	81.4	41.3	124.1
157	104.4	52.8	158.3



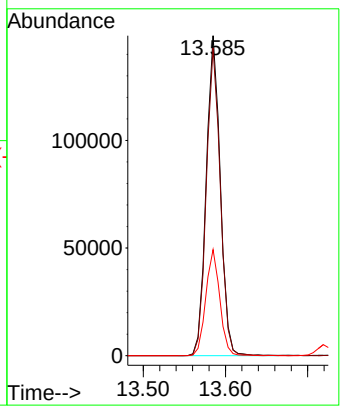


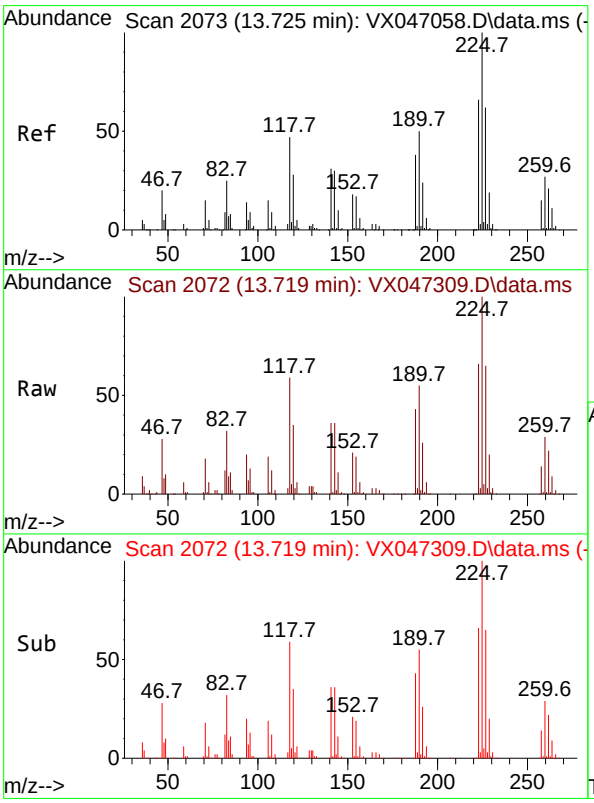
#93
1,2,4-Trichlorobenzene
Concen: 49.902 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 176813

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.3	141.8
145	32.9	16.4	49.1

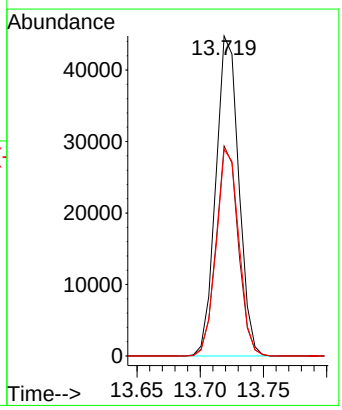


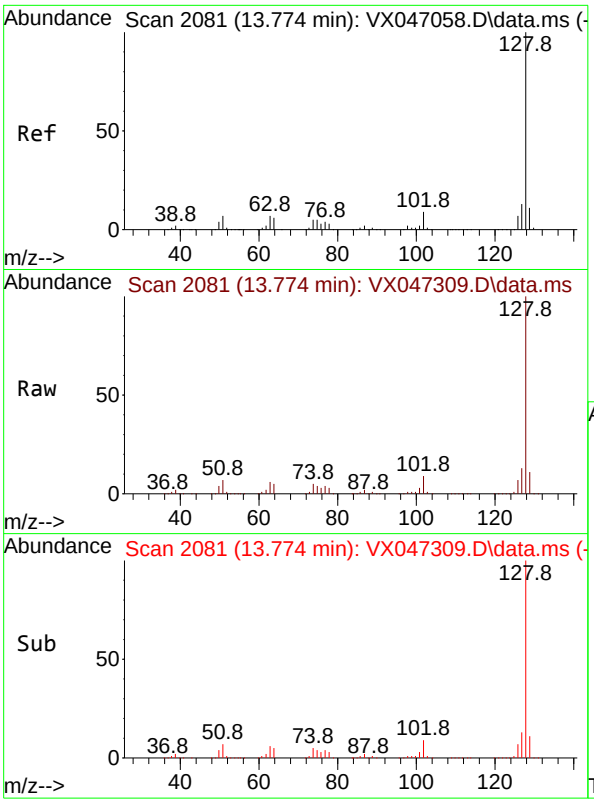


#94
Hexachlorobutadiene
Concen: 46.711 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:225 Resp: 56288

Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.6	95.0
227	63.8	32.9	98.6



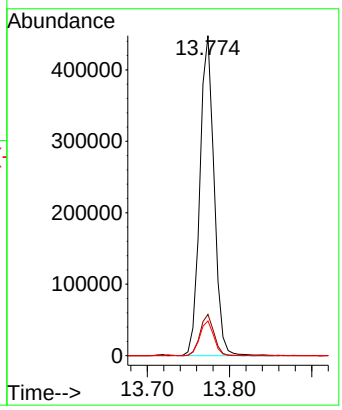


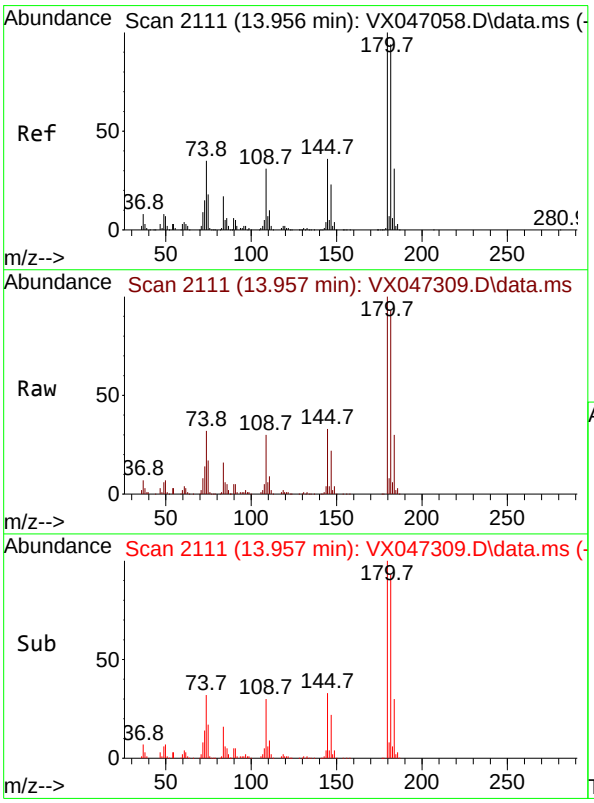
#95
Naphthalene
Concen: 51.782 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 537872

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.8	8.6	13.0

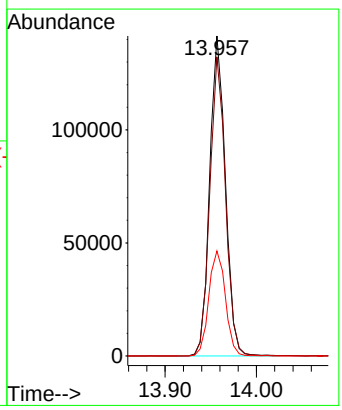




#96
1,2,3-Trichlorobenzene
Concen: 49.440 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047309.D
Acq: 13 Aug 2025 09:44

Tgt Ion:180 Resp: 168763

Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.9	140.6
145	34.7	17.3	52.0



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047312.D
Acq On : 13 Aug 2025 11:24
Operator : JC/MD
Sample : VX0813WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Quant Time: Aug 14 03:25:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	201153	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	351465	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	321390	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	166290	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.971	65	137106	54.717	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.440%			
35) Dibromofluoromethane	5.397	113	120946	55.734	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.460%			
50) Toluene-d8	8.653	98	340158	48.402	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.800%			
62) 4-Bromofluorobenzene	11.079	95	164675	54.374	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.740%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	50552	18.920	ug/l	99
3) Chloromethane	1.313	50	50910	19.263	ug/l	99
4) Vinyl Chloride	1.392	62	58156	20.470	ug/l	99
5) Bromomethane	1.630	94	29650	19.212	ug/l	96
6) Chloroethane	1.709	64	35844	19.210	ug/l	97
7) Trichlorofluoromethane	1.904	101	82128	19.387	ug/l	99
8) Diethyl Ether	2.148	74	32810	21.966	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.349	101	47828	18.739	ug/l	98
10) Methyl Iodide	2.471	142	77812	29.914	ug/l	98
11) Tert butyl alcohol	2.965	59	29334	93.714	ug/l	99
12) 1,1-Dichloroethene	2.337	96	50671	20.045	ug/l	95
13) Acrolein	2.252	56	75081	139.160	ug/l	99
14) Allyl chloride	2.678	41	90565	19.819	ug/l	99
15) Acrylonitrile	3.081	53	134855	112.844	ug/l	100
16) Acetone	2.392	43	109769	109.353	ug/l	99
17) Carbon Disulfide	2.532	76	138145	18.890	ug/l	99
18) Methyl Acetate	2.721	43	67472	25.293	ug/l	98
19) Methyl tert-butyl Ether	3.130	73	170912	22.215	ug/l	99
20) Methylene Chloride	2.806	84	60670	21.969	ug/l	96
21) trans-1,2-Dichloroethene	3.111	96	53110	20.531	ug/l	93
22) Diisopropyl ether	3.776	45	189542	21.575	ug/l	93
23) Vinyl Acetate	3.733	43	777071	110.278	ug/l	100
24) 1,1-Dichloroethane	3.630	63	103292	21.143	ug/l	98
25) 2-Butanone	4.574	43	155750	106.560	ug/l	93
26) 2,2-Dichloropropane	4.495	77	73431	19.417	ug/l	100
27) cis-1,2-Dichloroethene	4.507	96	64021	20.900	ug/l	99
28) Bromochloromethane	4.910	49	53405	23.761	ug/l	99
29) Tetrahydrofuran	5.026	42	97737	103.638	ug/l	96
30) Chloroform	5.105	83	106952	21.507	ug/l	98
31) Cyclohexane	5.489	56	83355	17.795	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	87950	20.362	ug/l	99
36) 1,1-Dichloropropene	5.708	75	68123	18.416	ug/l	97
37) Ethyl Acetate	4.727	43	79295	23.264	ug/l	97
38) Carbon Tetrachloride	5.690	117	75937	19.234	ug/l	97
39) Methylcyclohexane	7.385	83	77955	16.879	ug/l	95
40) Benzene	6.050	78	221589	20.699	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047312.D
Acq On : 13 Aug 2025 11:24
Operator : JC/MD
Sample : VX0813WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Quant Time: Aug 14 03:25:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	36004	20.202	ug/l	#	90
42) 1,2-Dichloroethane	6.099	62	83097	22.036	ug/l		99
43) Isopropyl Acetate	6.349	43	115740	21.781	ug/l		99
44) Trichloroethene	7.129	130	53800	19.598	ug/l		99
45) 1,2-Dichloropropane	7.434	63	55625	20.747	ug/l		93
46) Dibromomethane	7.586	93	41993	22.334	ug/l		99
47) Bromodichloromethane	7.824	83	84762	21.180	ug/l		96
48) Methyl methacrylate	7.702	41	59981	20.720	ug/l		99
49) 1,4-Dioxane	7.684	88	12726	386.524	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	356346	112.824	ug/l		99
52) Toluene	8.720	92	135372	20.566	ug/l		100
53) t-1,3-Dichloropropene	8.982	75	74453	19.701	ug/l		94
54) cis-1,3-Dichloropropene	8.373	75	84401	20.406	ug/l		97
55) 1,1,2-Trichloroethane	9.153	97	54901	22.240	ug/l		97
56) Ethyl methacrylate	9.122	69	80865	22.128	ug/l		98
57) 1,3-Dichloropropane	9.311	76	93007	21.679	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.245	63	199555	98.129	ug/l		100
59) 2-Hexanone	9.433	43	247091	118.411	ug/l		99
60) Dibromochloromethane	9.519	129	63101	21.795	ug/l		100
61) 1,2-Dibromoethane	9.610	107	56802	22.006	ug/l		99
64) Tetrachloroethene	9.275	164	44694	19.291	ug/l		94
65) Chlorobenzene	10.080	112	151282	20.093	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.165	131	52881	20.861	ug/l		98
67) Ethyl Benzene	10.195	91	258375	19.627	ug/l		99
68) m/p-Xylenes	10.299	106	198849	40.364	ug/l		98
69) o-Xylene	10.640	106	94390	20.141	ug/l		98
70) Styrene	10.653	104	166666	20.739	ug/l		99
71) Bromoform	10.799	173	40688	21.130	ug/l	#	98
73) Isopropylbenzene	10.964	105	247425	18.860	ug/l		99
74) N-amyl acetate	10.842	43	101822	19.236	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	79675	21.261	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	76185	24.752	ug/l		83
77) Bromobenzene	11.195	156	63857	20.293	ug/l		96
78) n-propylbenzene	11.305	91	294861	18.808	ug/l		100
79) 2-Chlorotoluene	11.360	91	182451	19.469	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	207773	19.170	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	10307	8.627	ug/l		96
82) 4-Chlorotoluene	11.451	91	215901	19.738	ug/l		99
83) tert-Butylbenzene	11.713	119	202063	18.575	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	207952	19.236	ug/l		99
85) sec-Butylbenzene	11.890	105	246647	18.146	ug/l		99
86) p-Isopropyltoluene	12.006	119	209624	18.597	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	119434	19.976	ug/l		100
88) 1,4-Dichlorobenzene	12.037	146	120773	19.938	ug/l		98
89) n-Butylbenzene	12.329	91	188398	17.823	ug/l		98
90) Hexachloroethane	12.536	117	35864	17.786	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	113345	19.835	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	15204	21.136	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	73212	19.391	ug/l		98
94) Hexachlorobutadiene	13.719	225	21890	17.048	ug/l		97
95) Naphthalene	13.774	128	221152	19.981	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	67706	18.614	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047312.D
Acq On : 13 Aug 2025 11:24
Operator : JC/MD
Sample : VX0813WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Quant Time: Aug 14 03:25:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

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

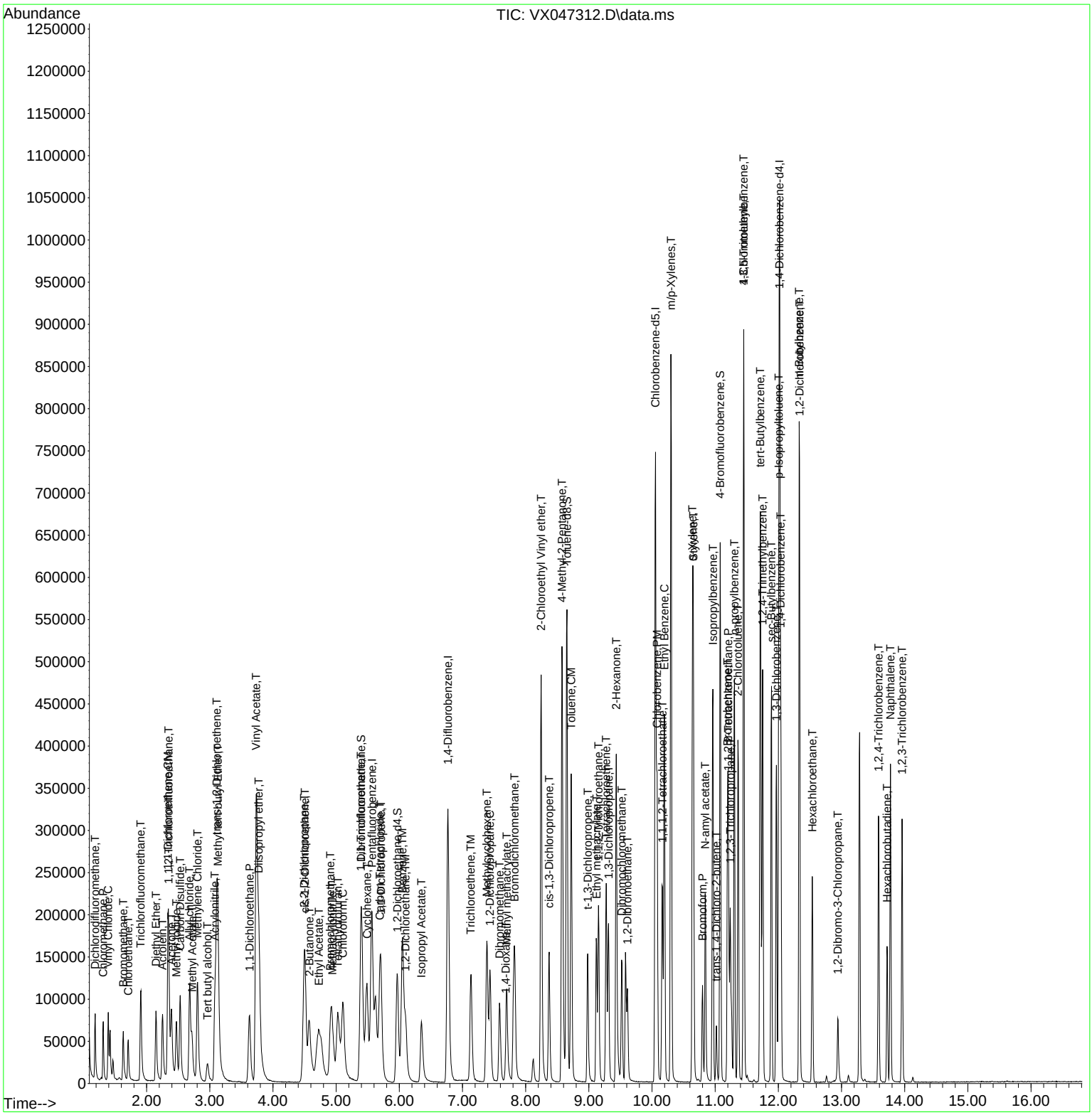
(#) = qualifier out of range (m) = manual integration (+) = signals summed

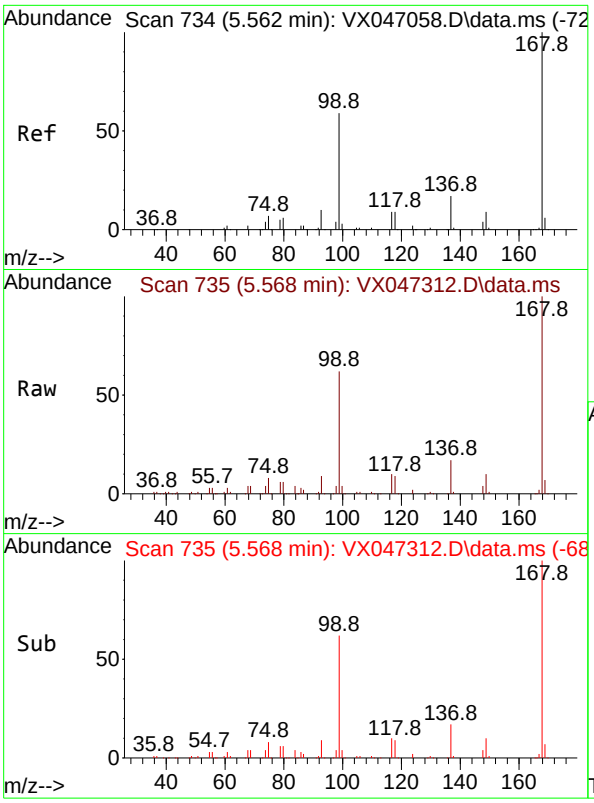
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047312.D
Acq On : 13 Aug 2025 11:24
Operator : JC/MD
Sample : VX0813WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Quant Time: Aug 14 03:25:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration



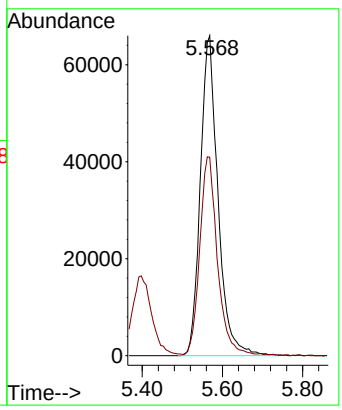


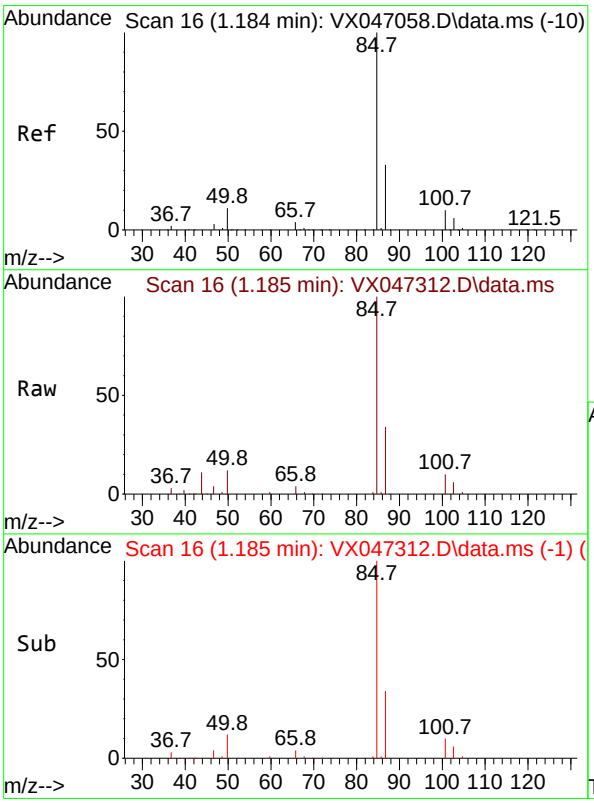
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:168 Resp: 201153

Ion	Ratio	Lower	Upper
168	100		
99	61.7	48.0	72.0

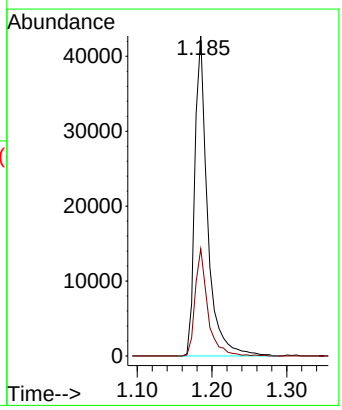


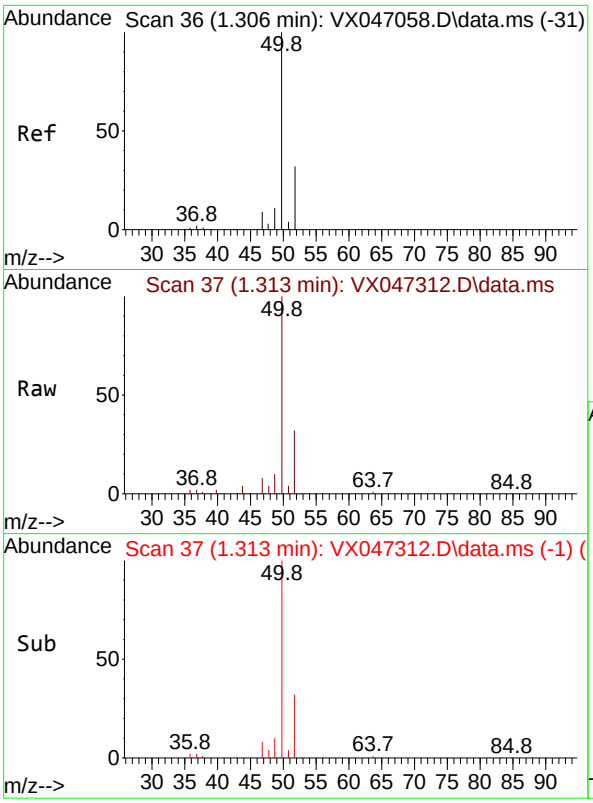


#2
Dichlorodifluoromethane
Concen: 18.920 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 85 Resp: 50552

Ion	Ratio	Lower	Upper
85	100		
87	33.5	16.6	49.8



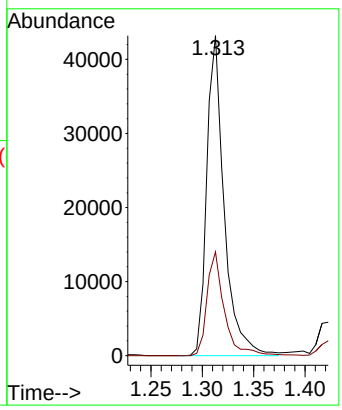


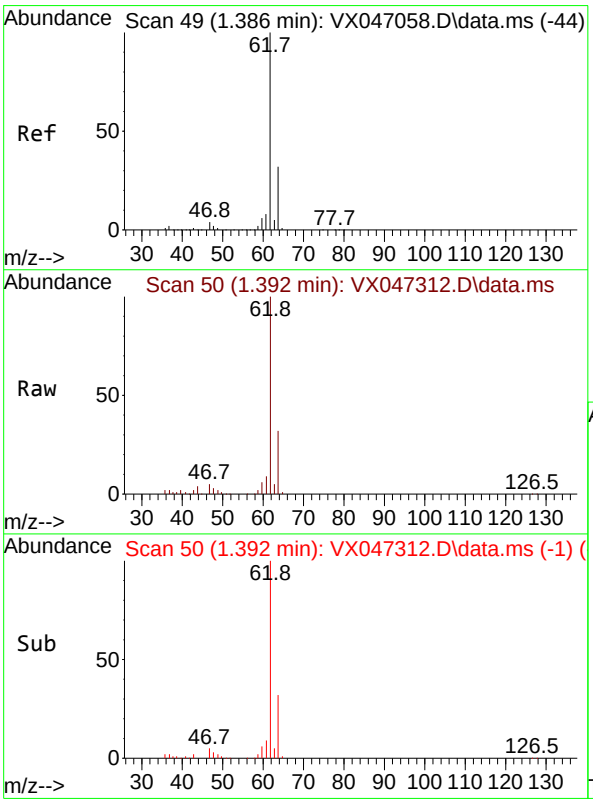
#3
Chloromethane
Concen: 19.263 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 50 Resp: 50910

Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.4	38.2

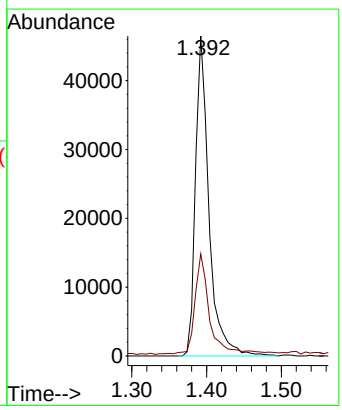


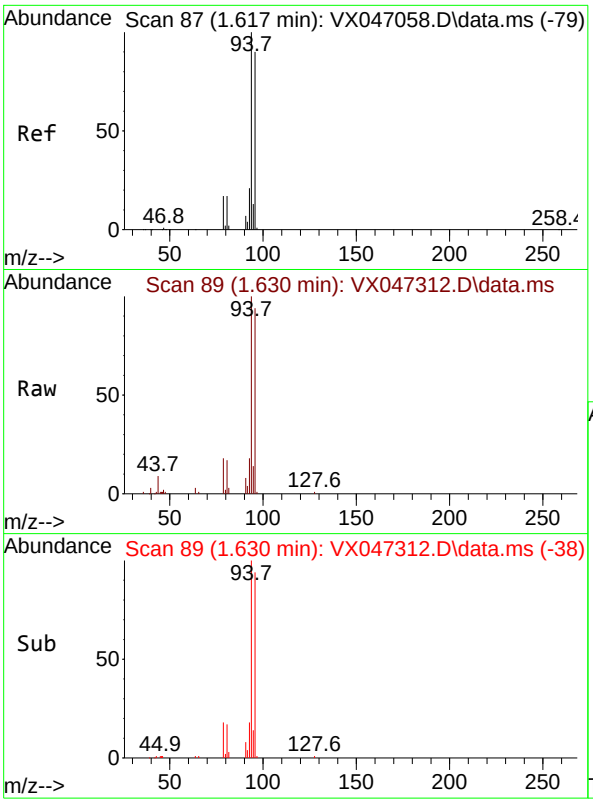


#4
Vinyl Chloride
Concen: 20.470 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 62 Resp: 58156

Ion	Ratio	Lower	Upper
62	100		
64	31.0	25.2	37.8



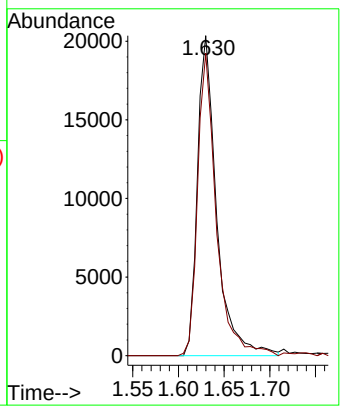


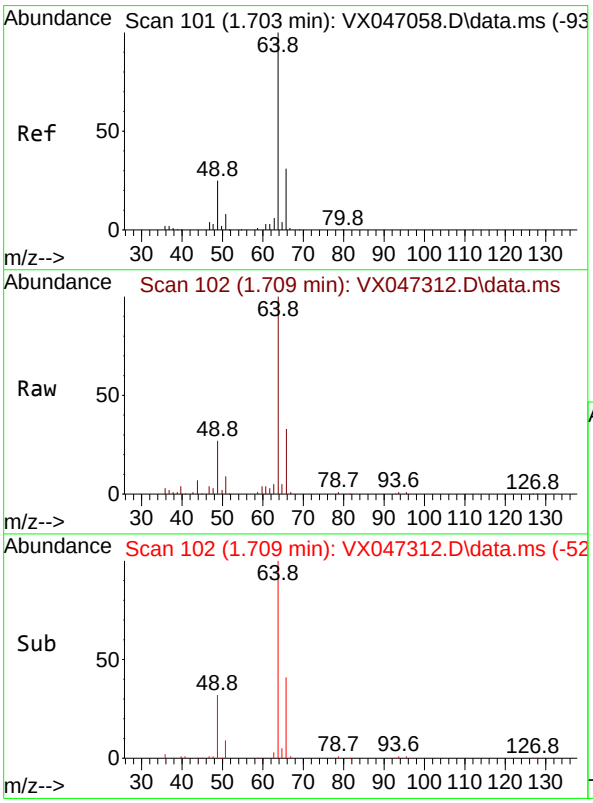
#5
Bromomethane
Concen: 19.212 ug/l
RT: 1.630 min Scan# 8
Delta R.T. 0.013 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 94 Resp: 29650

Ion	Ratio	Lower	Upper
94	100		
96	94.5	72.3	108.5

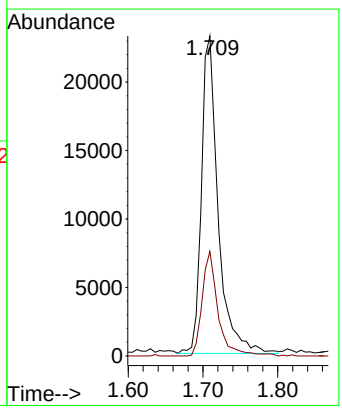


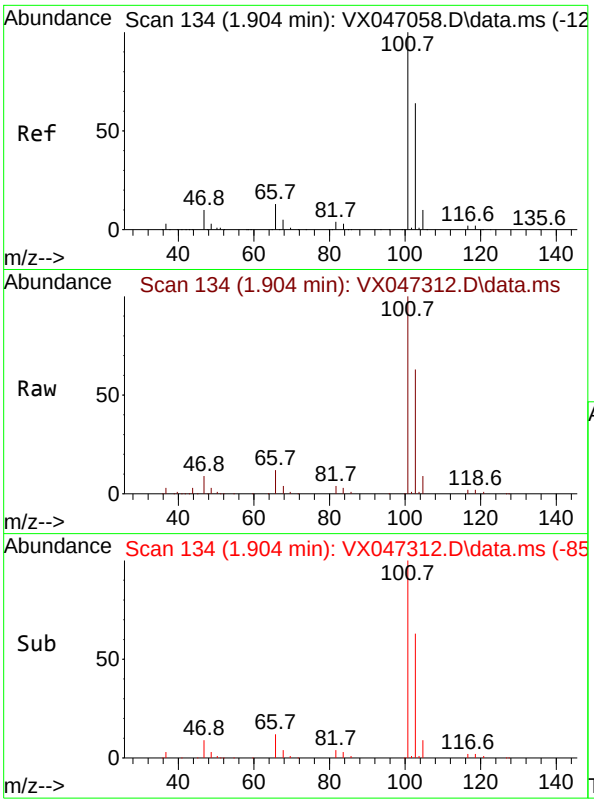


#6
Chloroethane
Concen: 19.210 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 64 Resp: 35844

Ion	Ratio	Lower	Upper
64	100		
66	32.9	25.0	37.6



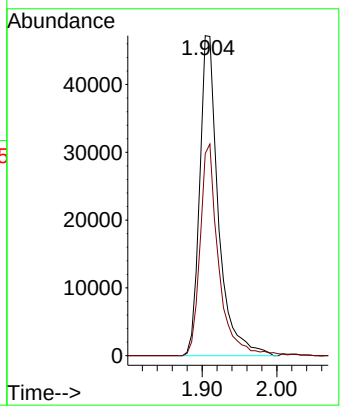


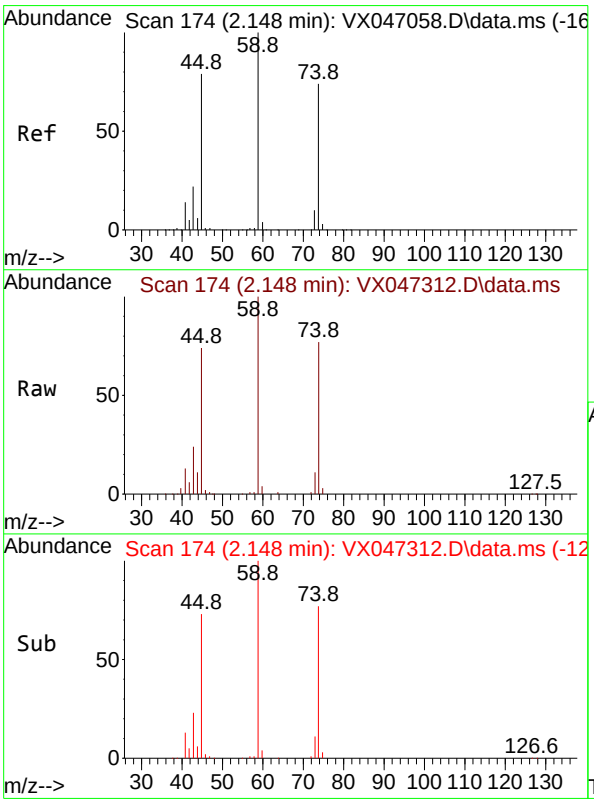
#7
Trichlorofluoromethane
Concen: 19.387 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:101 Resp: 82128

Ion	Ratio	Lower	Upper
101	100		
103	63.2	50.9	76.3

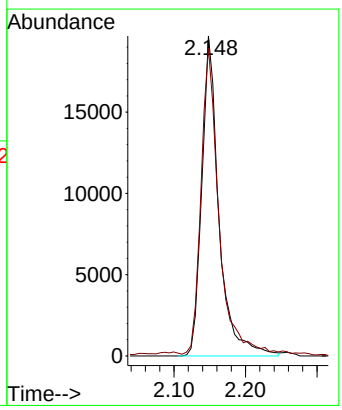


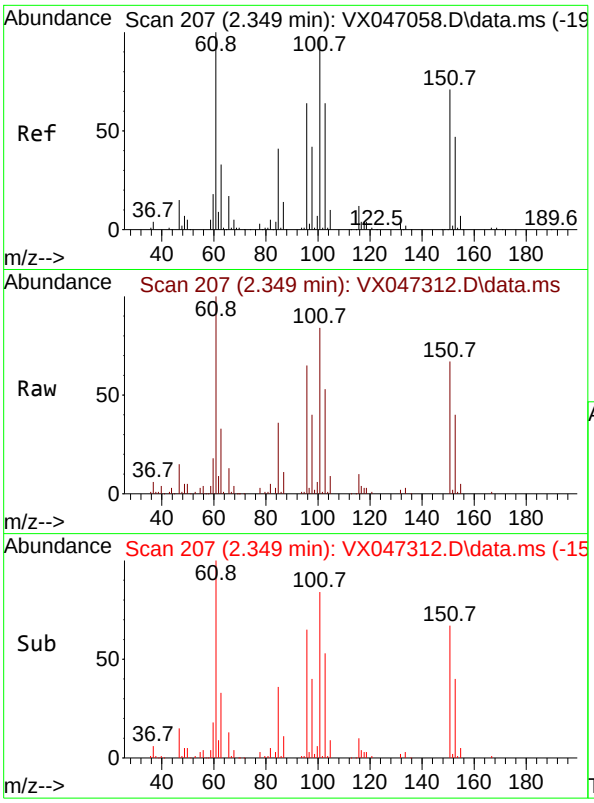


#8
Diethyl Ether
Concen: 21.966 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 74 Resp: 32810

Ion	Ratio	Lower	Upper
74	100		
45	103.7	53.0	159.0



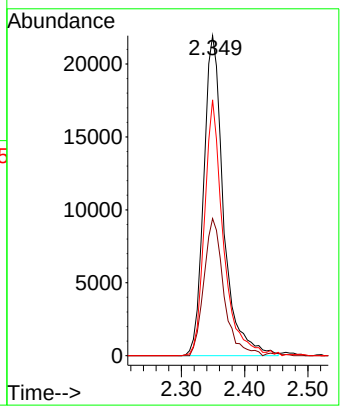


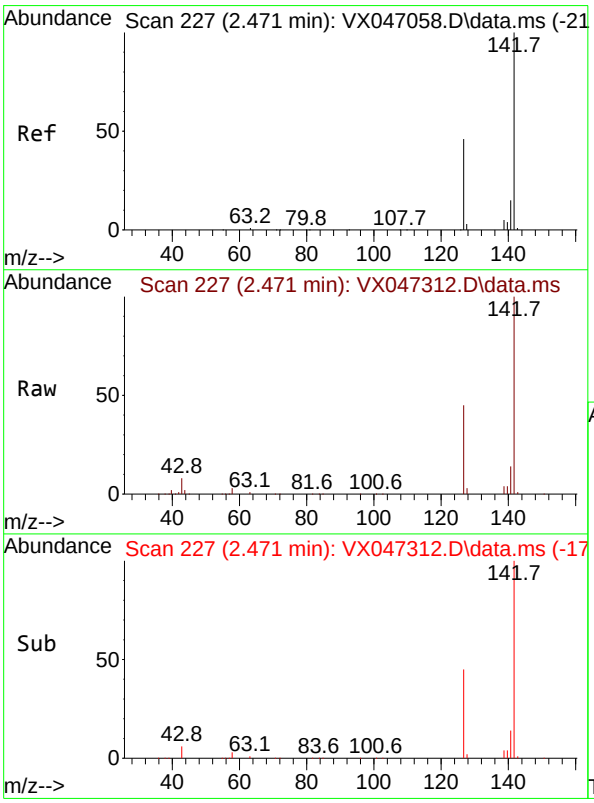
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.739 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:101 Resp: 47828

Ion	Ratio	Lower	Upper
101	100		
85	43.0	35.4	53.0
151	75.3	59.2	88.8

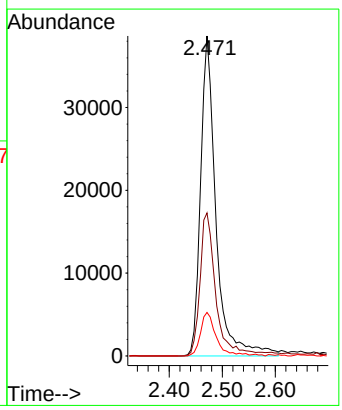


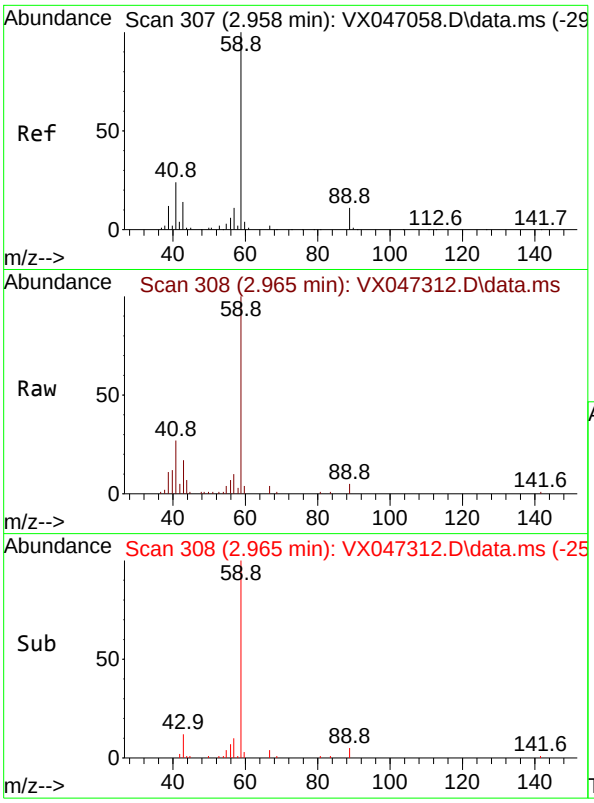


#10
Methyl Iodide
Concen: 29.914 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:142 Resp: 77812

Ion	Ratio	Lower	Upper
142	100		
127	46.9	36.6	54.8
141	13.9	10.9	16.3



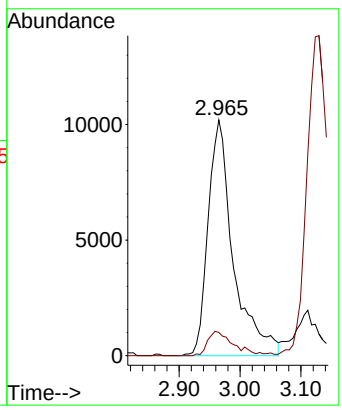


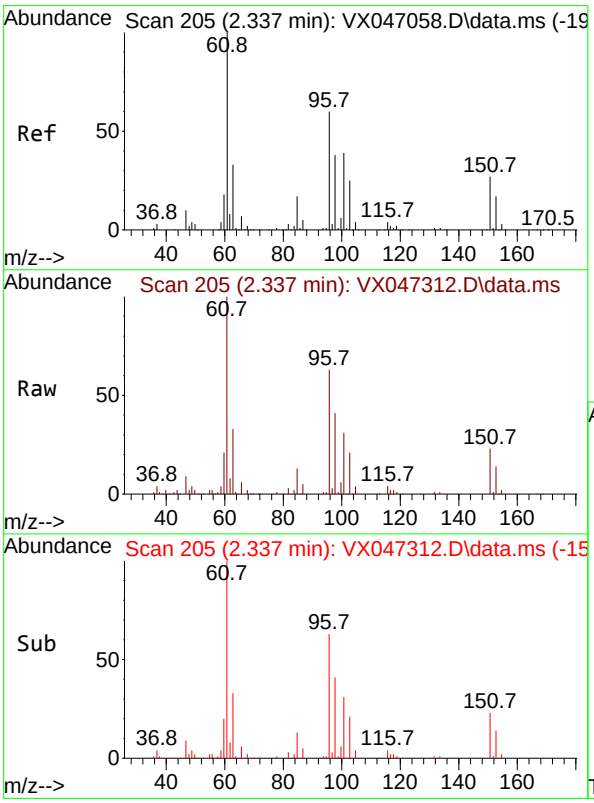
#11
Tert butyl alcohol
Concen: 93.714 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 59 Resp: 29334

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.5	12.7

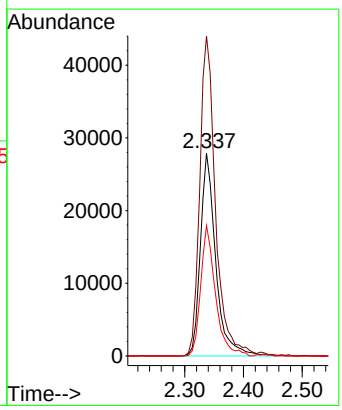


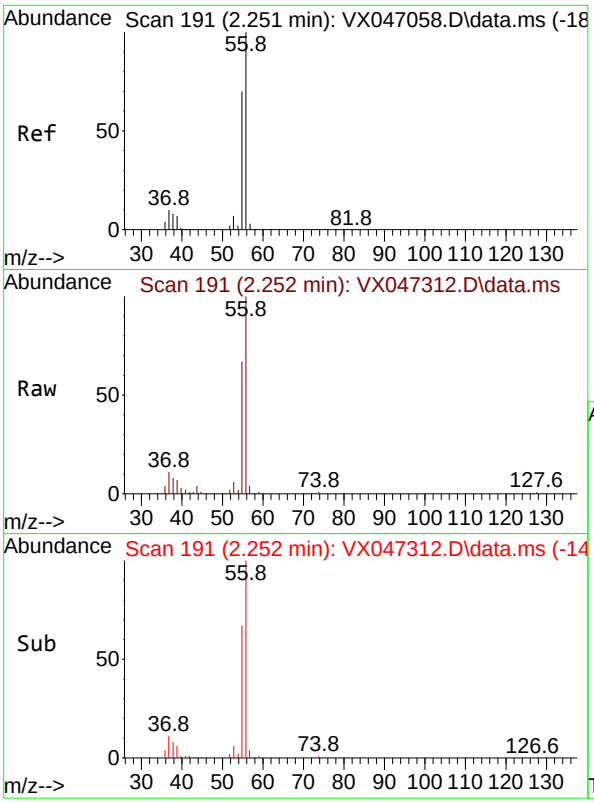


#12
1,1-Dichloroethene
Concen: 20.045 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 96 Resp: 50671

Ion	Ratio	Lower	Upper
96	100		
61	157.7	132.6	198.8
98	64.3	50.2	75.4



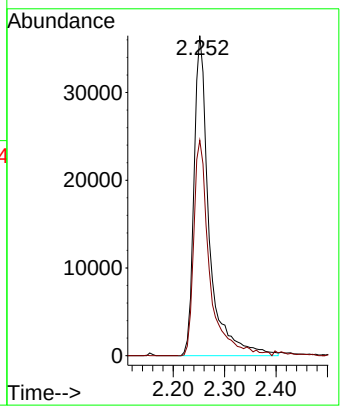


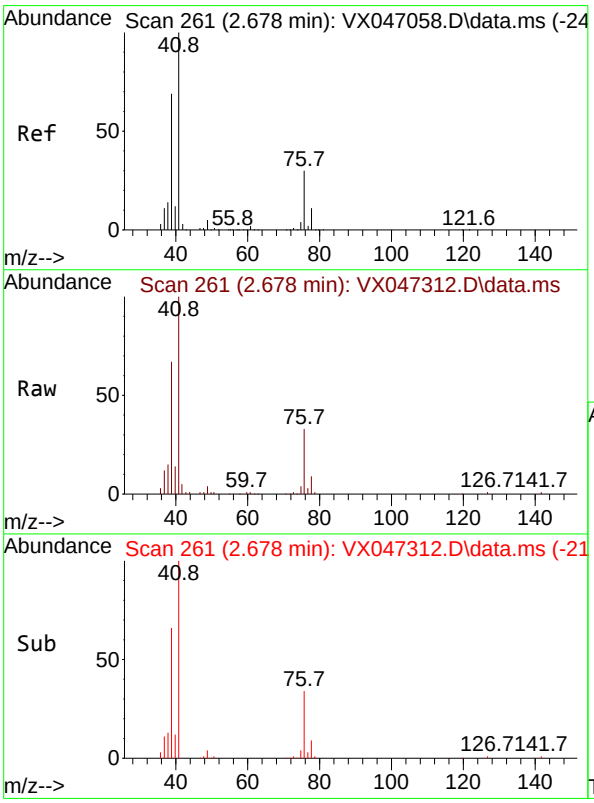
#13
Acrolein
Concen: 139.160 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 56 Resp: 75081

Ion	Ratio	Lower	Upper
56	100		
55	70.0	55.7	83.5

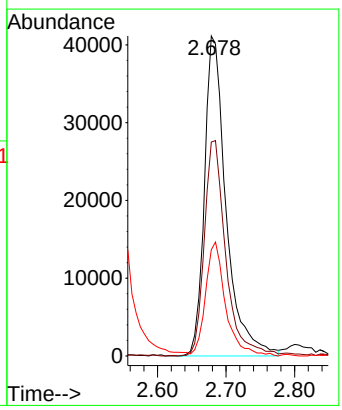


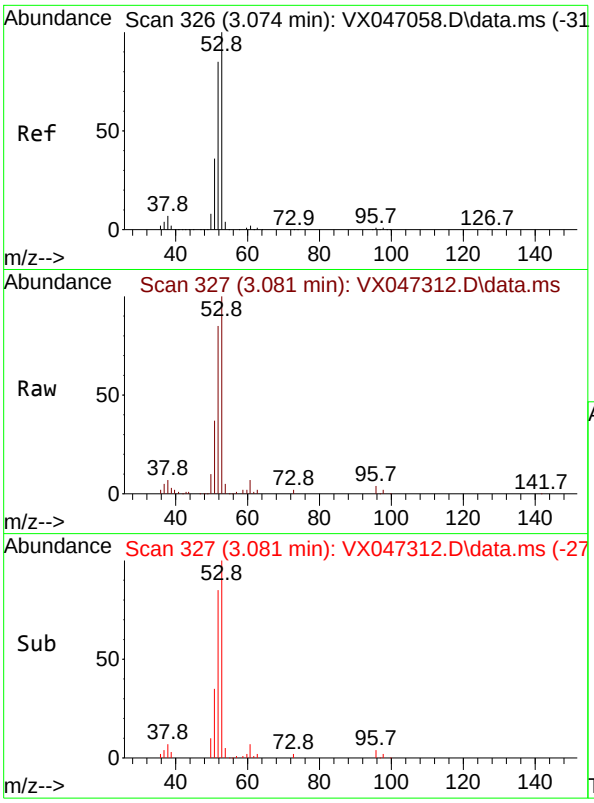


#14
Allyl chloride
Concen: 19.819 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 41 Resp: 90565

Ion	Ratio	Lower	Upper
41	100		
39	66.7	52.6	78.8
76	32.9	25.7	38.5



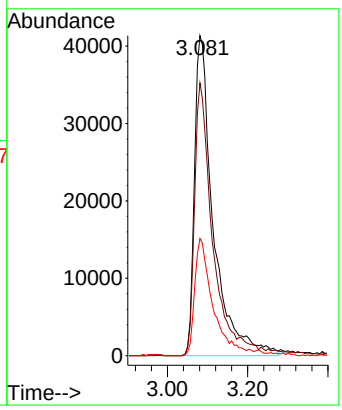


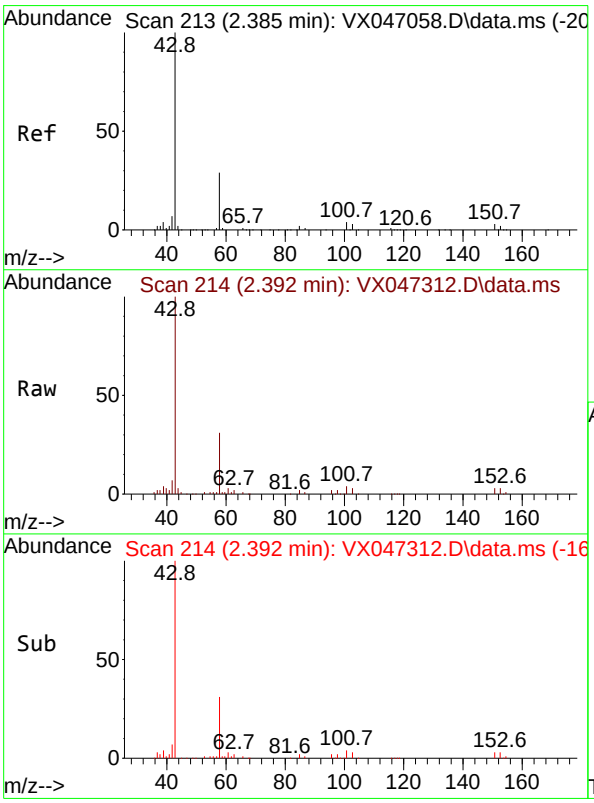
#15
Acrylonitrile
Concen: 112.844 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 53 Resp: 134855

Ion	Ratio	Lower	Upper
53	100		
52	81.8	65.7	98.5
51	35.6	28.8	43.2

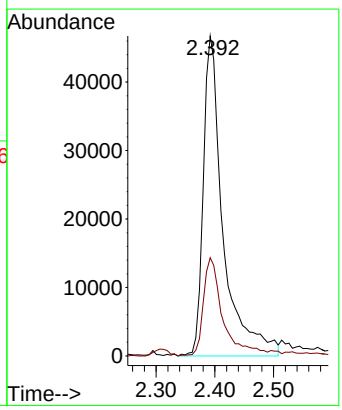


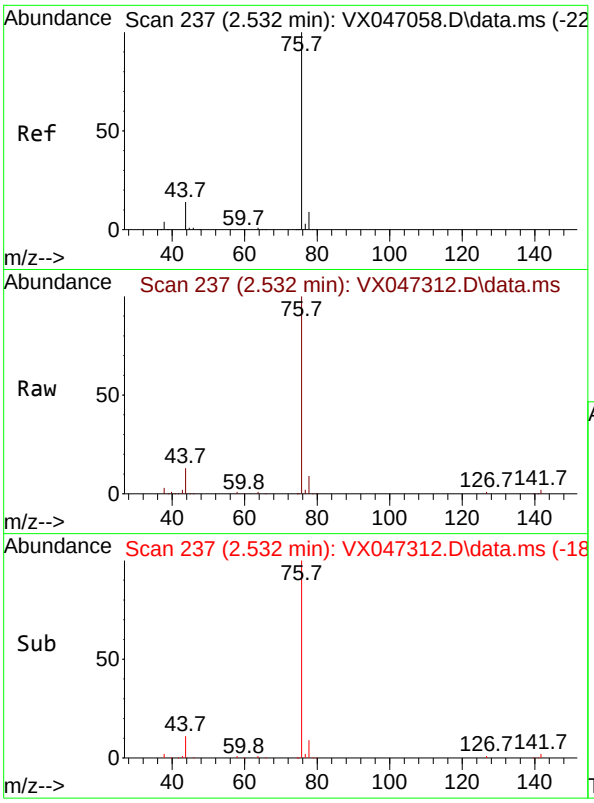


#16
Acetone
Concen: 109.353 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 43 Resp: 109769

Ion	Ratio	Lower	Upper
43	100		
58	30.6	24.0	36.0



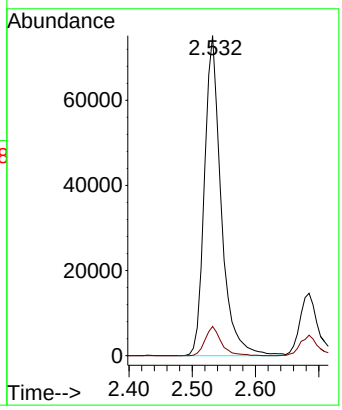


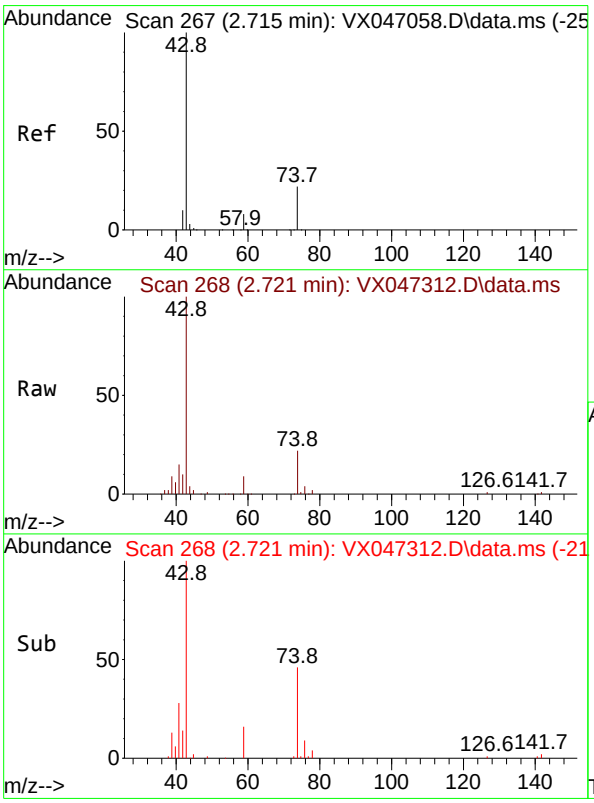
#17
Carbon Disulfide
Concen: 18.890 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 76 Resp: 138145

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.4

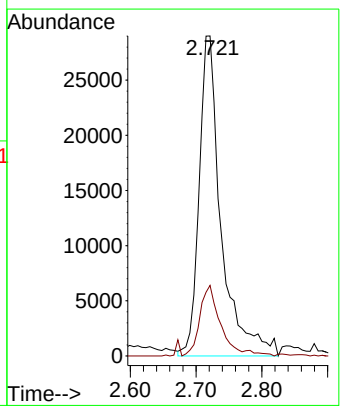


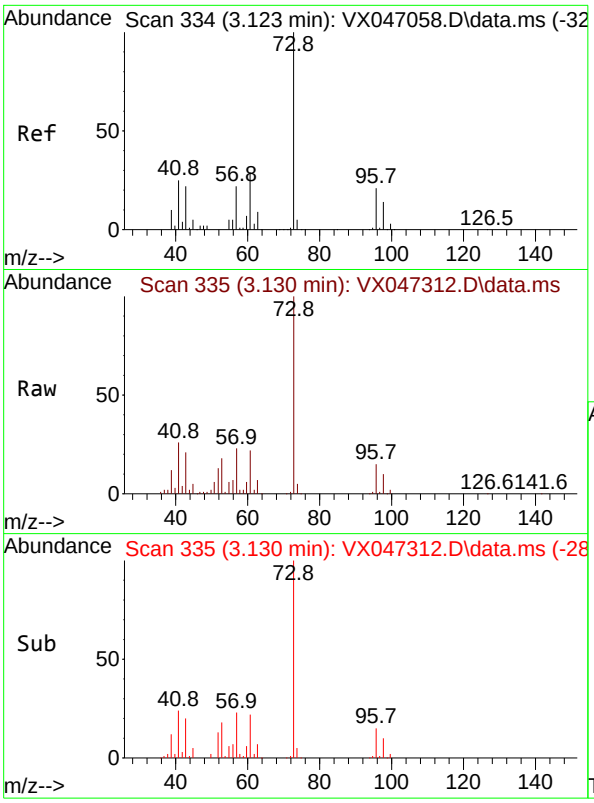


#18
Methyl Acetate
Concen: 25.293 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 43 Resp: 67472

Ion	Ratio	Lower	Upper
43	100		
74	20.9	17.7	26.5



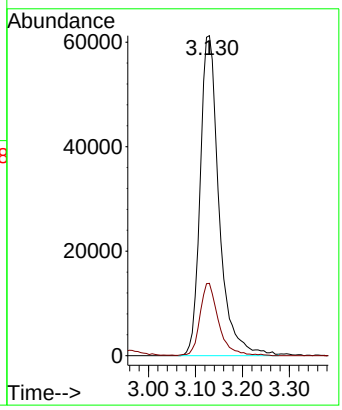


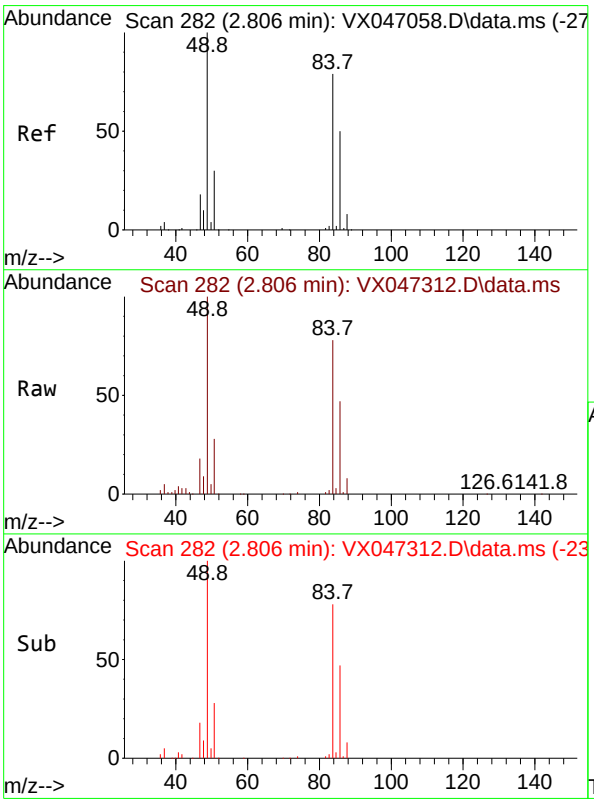
#19
Methyl tert-butyl Ether
Concen: 22.215 ug/l
RT: 3.130 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 73 Resp: 170912

Ion	Ratio	Lower	Upper
73	100		
57	22.6	17.7	26.5

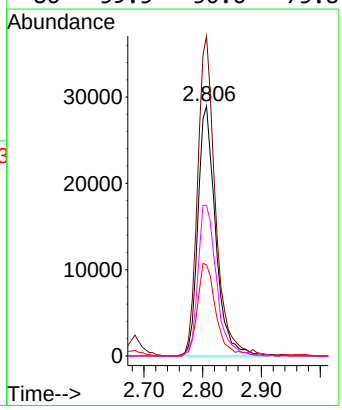


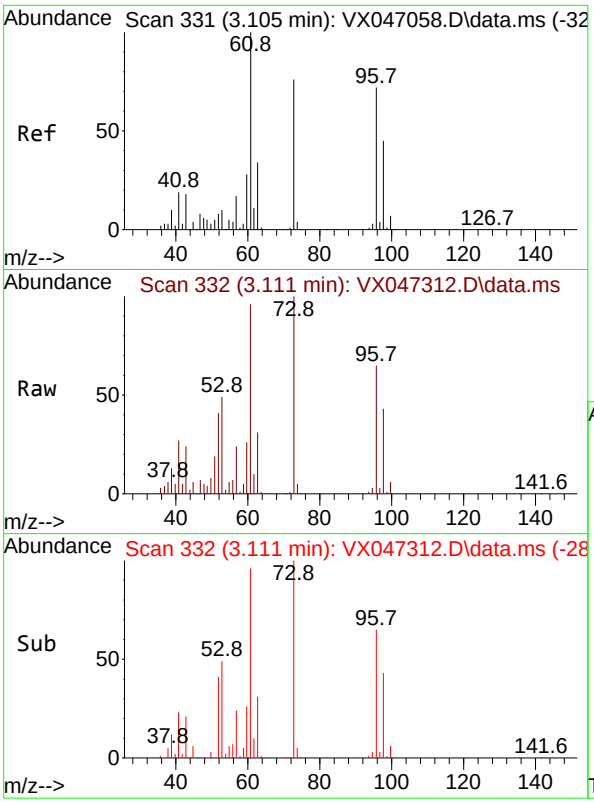


#20
Methylene Chloride
Concen: 21.969 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 84 Resp: 60670

Ion	Ratio	Lower	Upper
84	100		
49	123.6	101.6	152.4
51	35.2	30.3	45.5
86	59.5	50.6	75.8



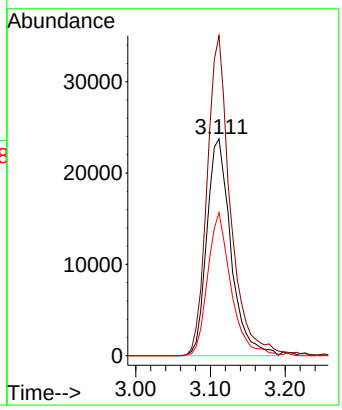


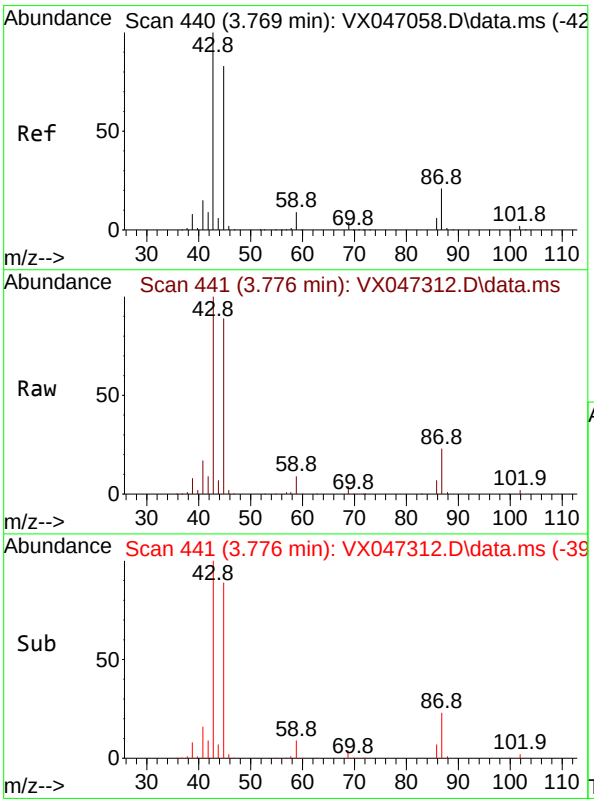
#21
trans-1,2-Dichloroethene
Concen: 20.531 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 96 Resp: 53110

Ion	Ratio	Lower	Upper
96	100		
61	147.5	111.1	166.7
98	66.0	49.6	74.4

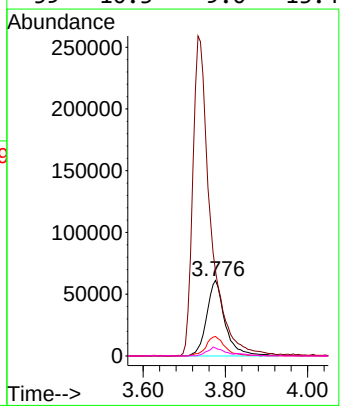


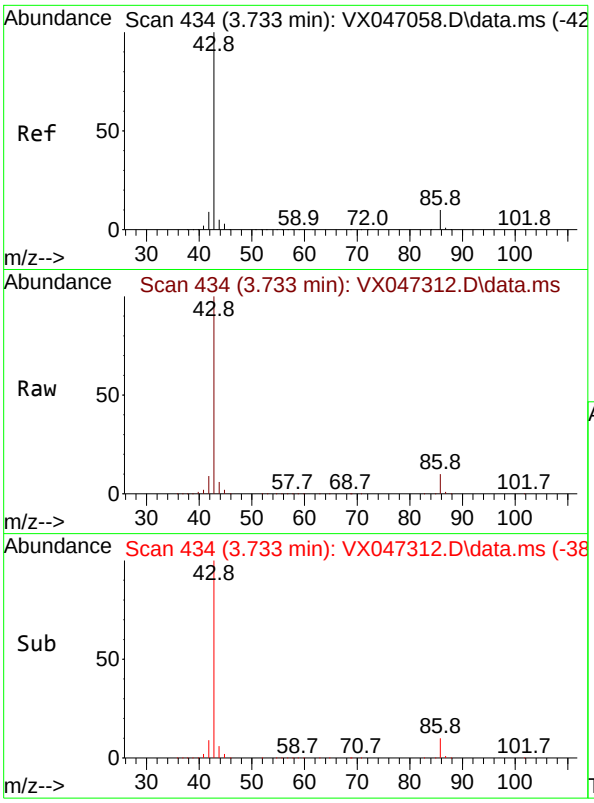


#22
Diisopropyl ether
Concen: 21.575 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 45 Resp: 189542

Ion	Ratio	Lower	Upper
45	100		
43	111.9	96.8	145.2
87	25.8	20.5	30.7
59	10.3	9.0	13.4



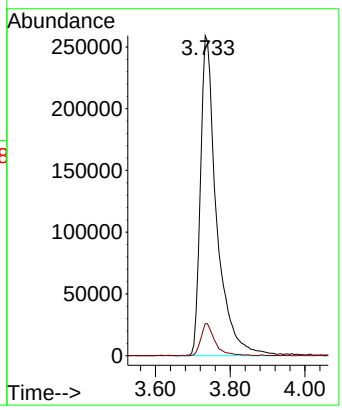


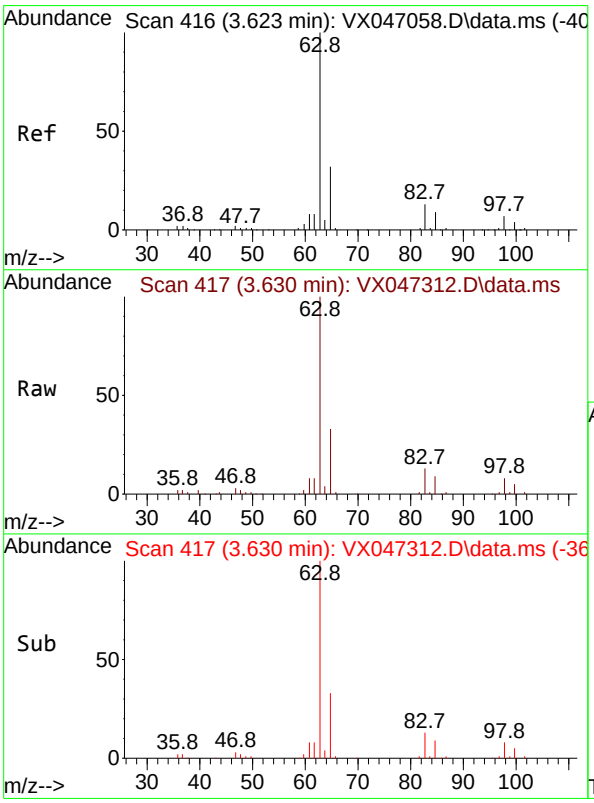
#23
Vinyl Acetate
Concen: 110.278 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 43 Resp: 777071

Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1

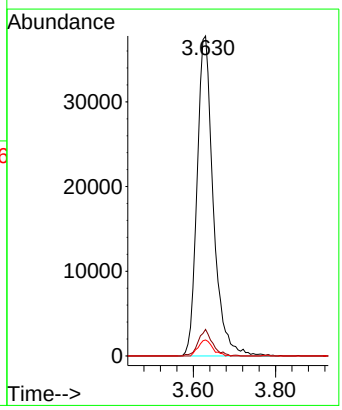


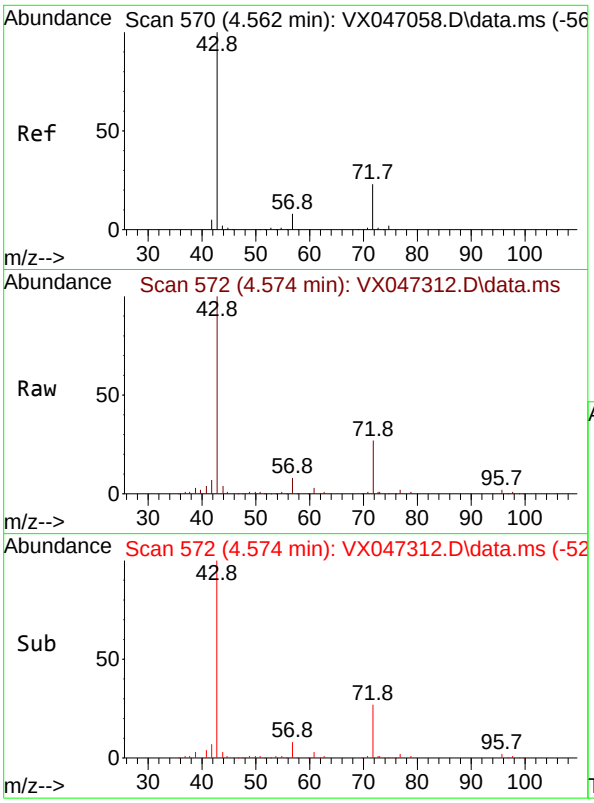


#24
1,1-Dichloroethane
Concen: 21.143 ug/l
RT: 3.630 min Scan# 417
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 63 Resp: 103292

Ion	Ratio	Lower	Upper
63	100		
98	8.3	3.6	10.8
100	5.0	2.3	6.8



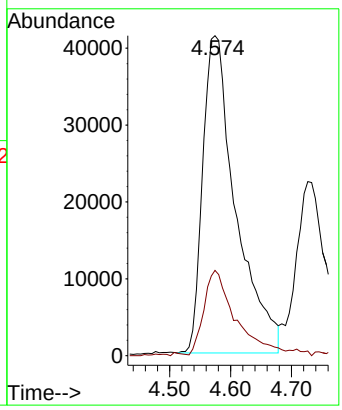


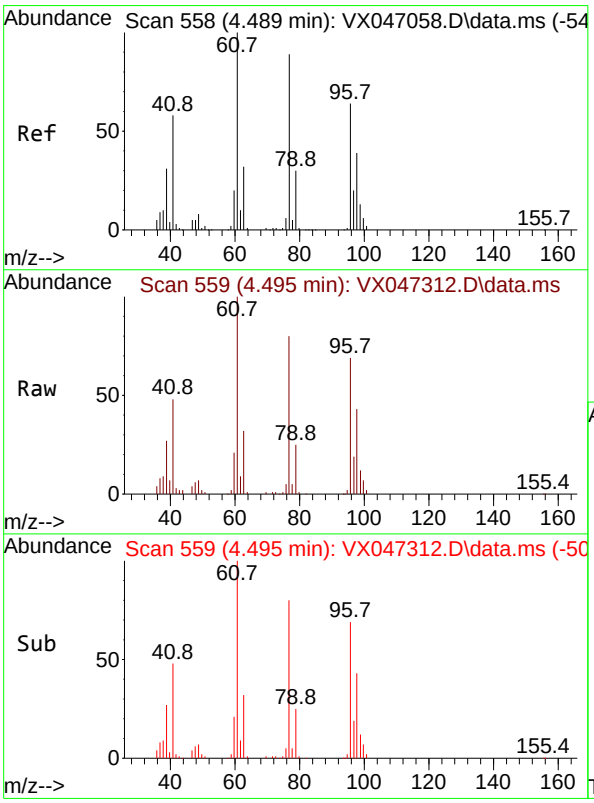
#25
2-Butanone
Concen: 106.560 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.013 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 43 Resp: 155750

Ion	Ratio	Lower	Upper
43	100		
72	27.1	18.8	28.2

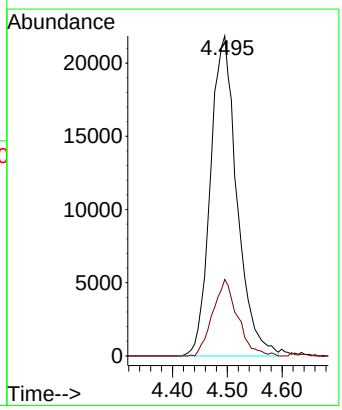


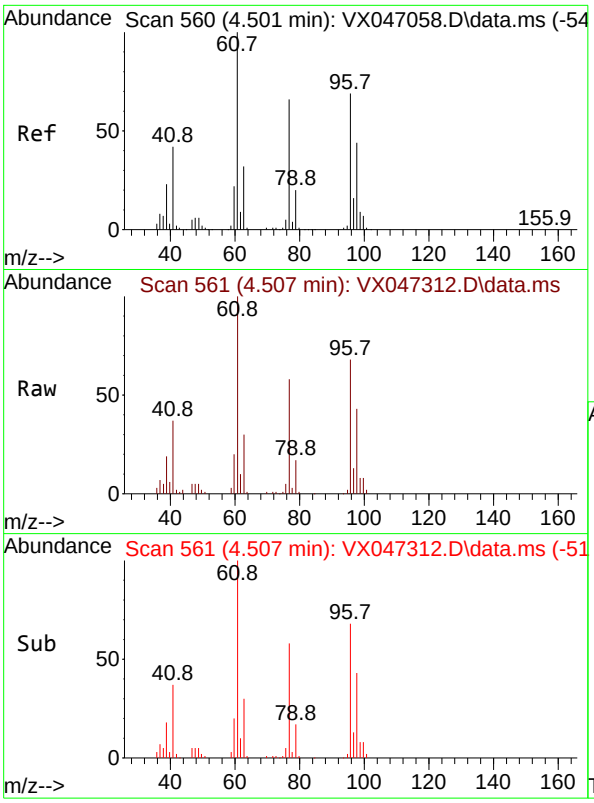


#26
2,2-Dichloropropane
Concen: 19.417 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 77 Resp: 73431

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.4	34.1



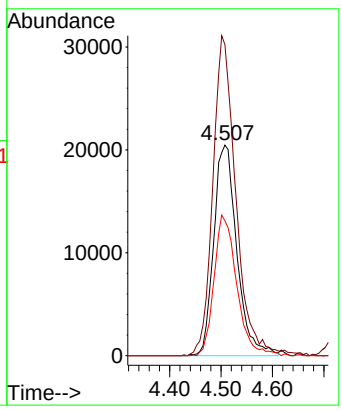


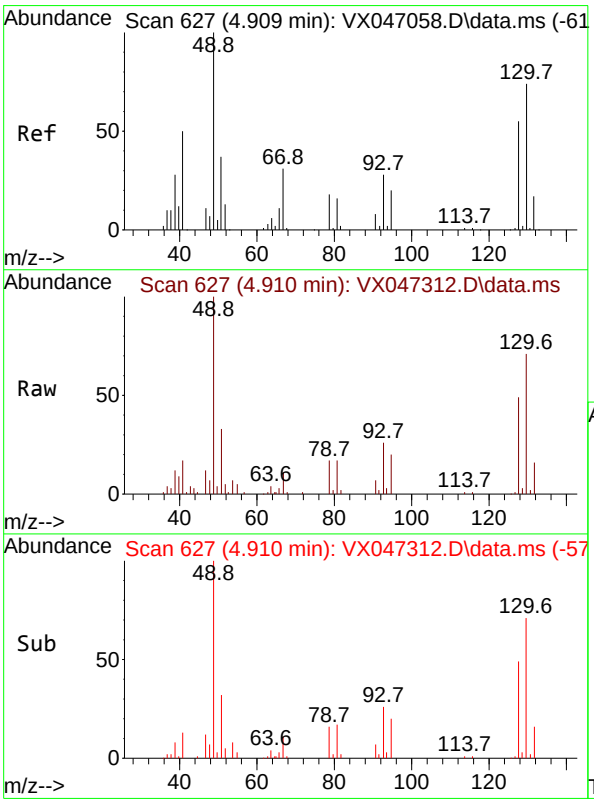
#27
cis-1,2-Dichloroethene
Concen: 20.900 ug/l
RT: 4.507 min Scan# 5
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 96 Resp: 64021

Ion	Ratio	Lower	Upper
96	100		
61	151.3	0.0	298.6
98	65.3	0.0	128.8

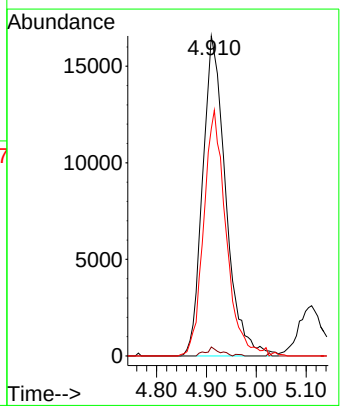


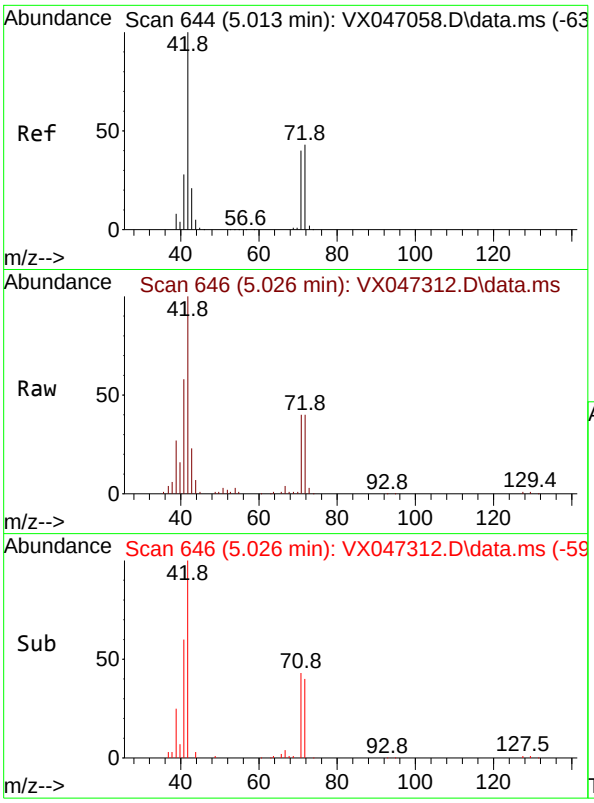


#28
Bromochloromethane
Concen: 23.761 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 49 Resp: 53405

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.8
130	74.4	59.0	88.4



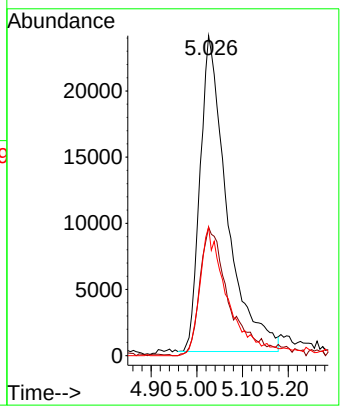


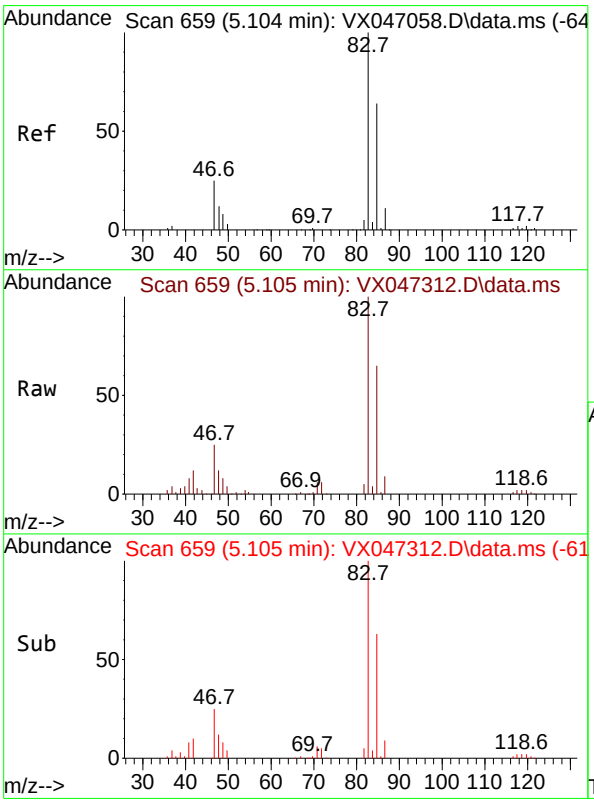
#29
Tetrahydrofuran
Concen: 103.638 ug/l
RT: 5.026 min Scan# 64
Delta R.T. 0.013 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 42 Resp: 97737

Ion	Ratio	Lower	Upper
42	100		
72	44.0	33.7	50.5
71	42.0	31.0	46.4

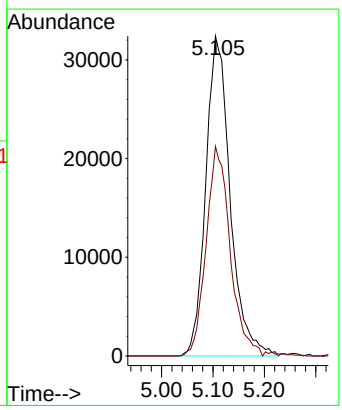


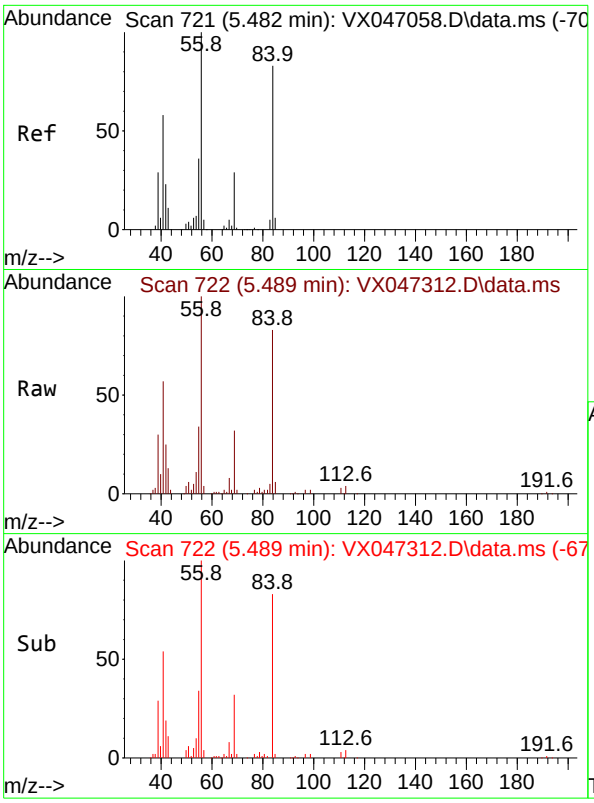


#30
Chloroform
Concen: 21.507 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 83 Resp: 106952

Ion	Ratio	Lower	Upper
83	100		
85	65.5	50.9	76.3



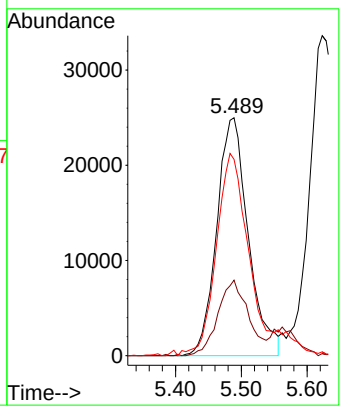


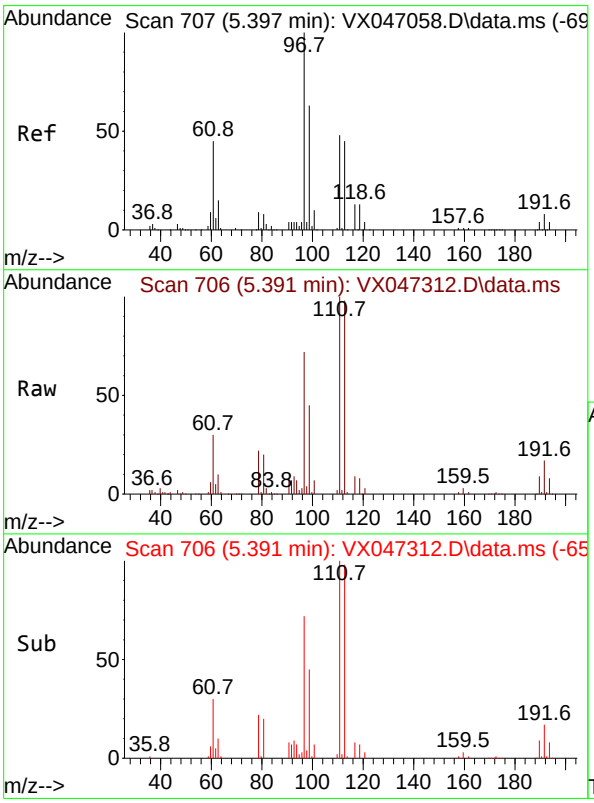
#31
Cyclohexane
Concen: 17.795 ug/l
RT: 5.489 min Scan# 7
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 56 Resp: 83355

Ion	Ratio	Lower	Upper
56	100		
69	31.1	23.3	34.9
84	82.5	66.5	99.7

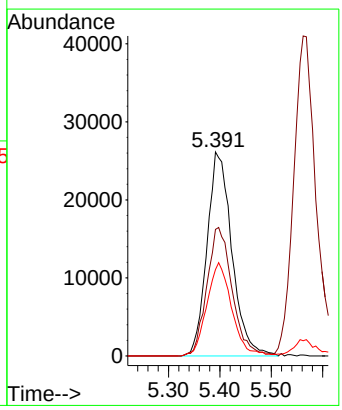


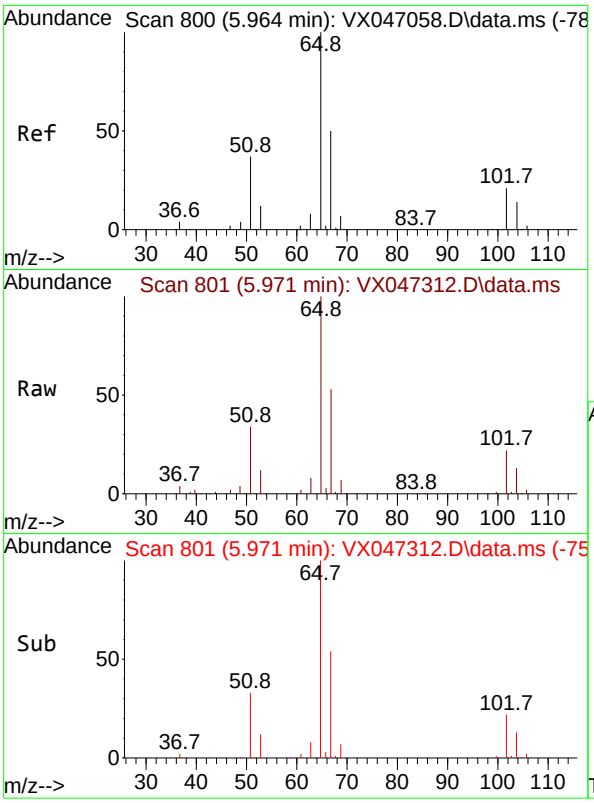


#32
1,1,1-Trichloroethane
Concen: 20.362 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 97 Resp: 87950

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.2	76.8
61	45.7	37.1	55.7



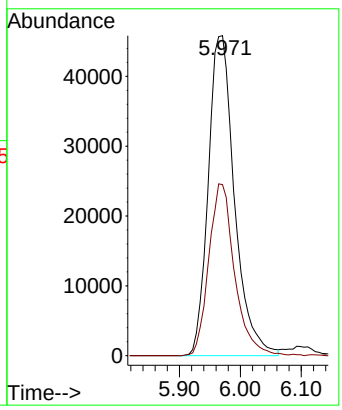


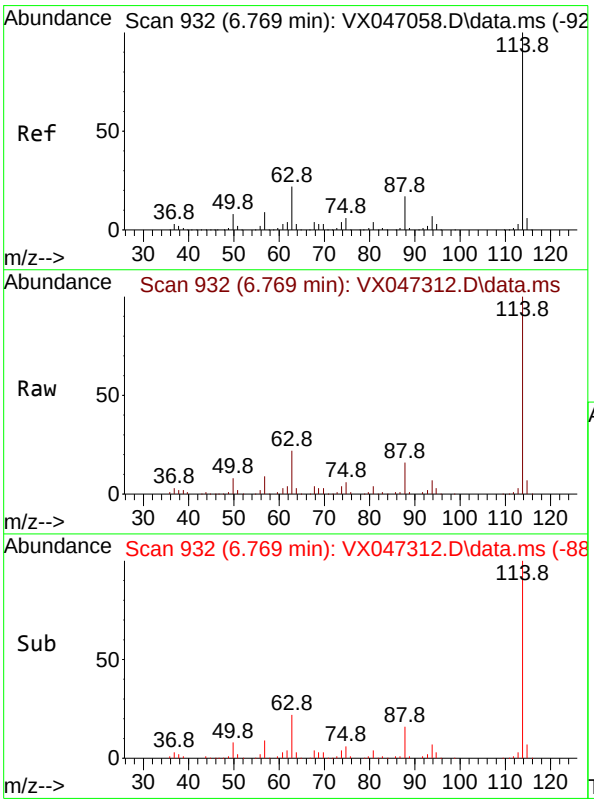
#33
1,2-Dichloroethane-d4
Concen: 54.717 ug/l
RT: 5.971 min Scan# 8
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 65 Resp: 137106

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.8

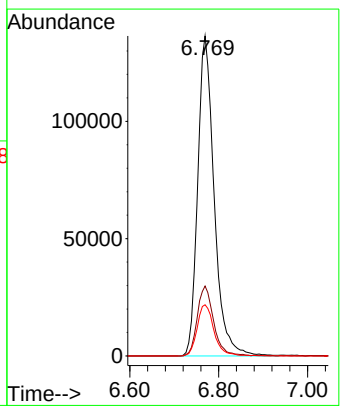


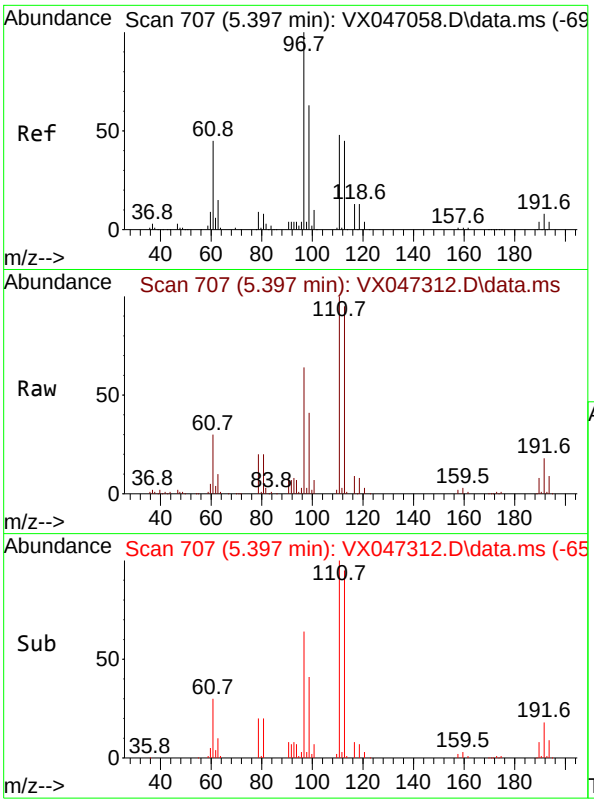


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:114 Resp: 351465

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	43.2
88	16.0	0.0	33.8



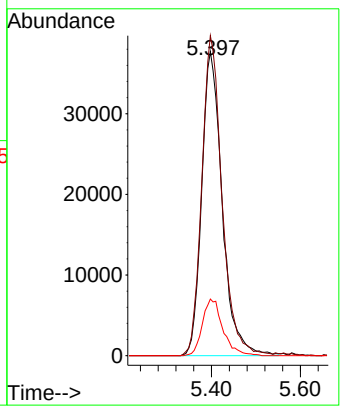


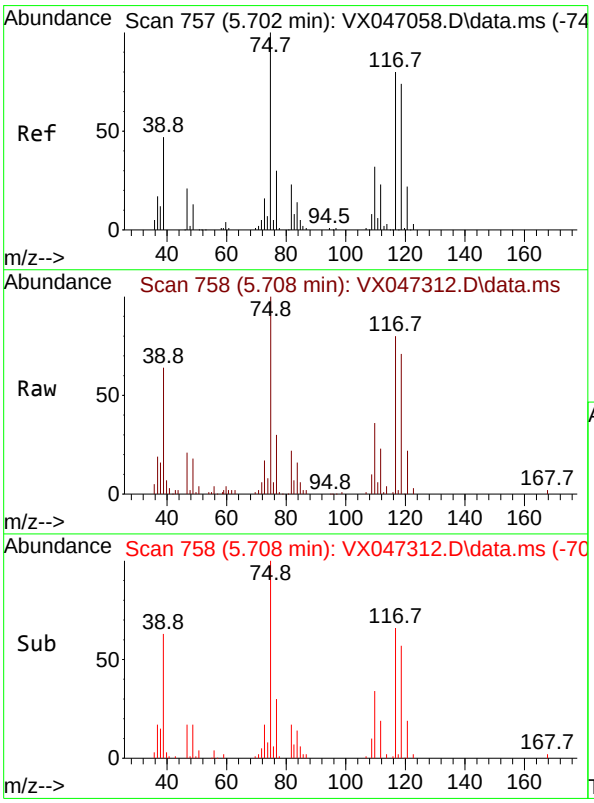
#35
Dibromofluoromethane
Concen: 55.734 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:113 Resp: 120946

Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.6	124.0
192	18.7	14.9	22.3

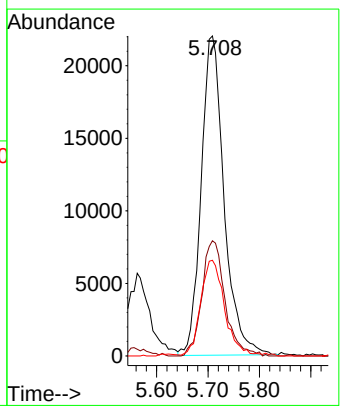


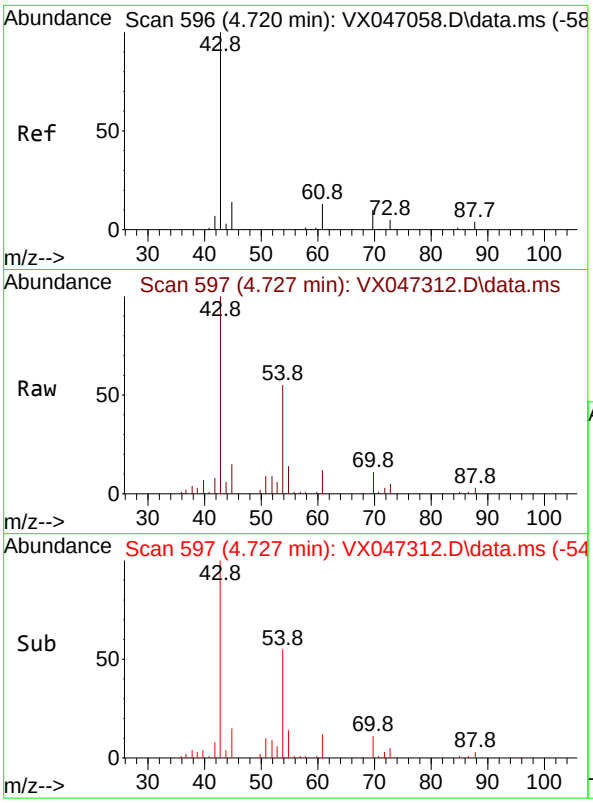


#36
1,1-Dichloropropene
Concen: 18.416 ug/l
RT: 5.708 min Scan# 758
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 75 Resp: 68123

Ion	Ratio	Lower	Upper
75	100		
110	36.5	17.2	51.5
77	30.7	25.1	37.7



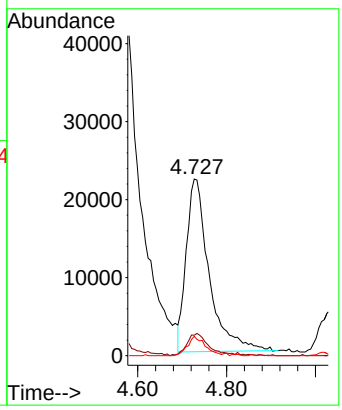


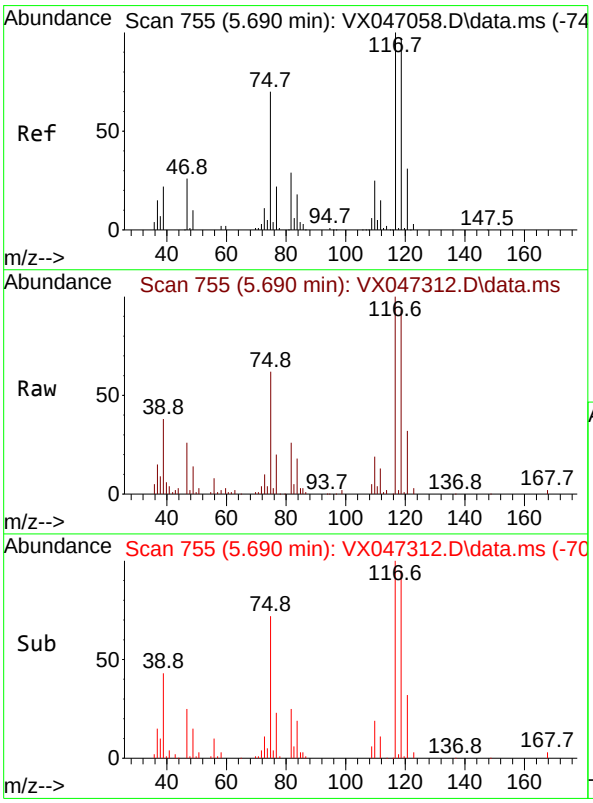
#37
Ethyl Acetate
Concen: 23.264 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 43 Resp: 79295

Ion	Ratio	Lower	Upper
43	100		
61	12.1	10.2	15.2
70	8.5	8.1	12.1

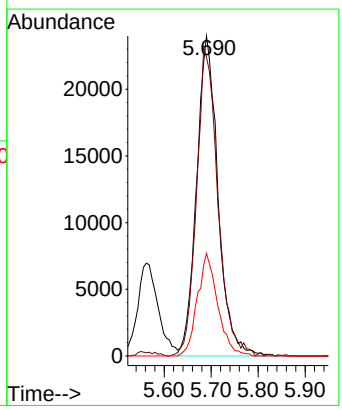


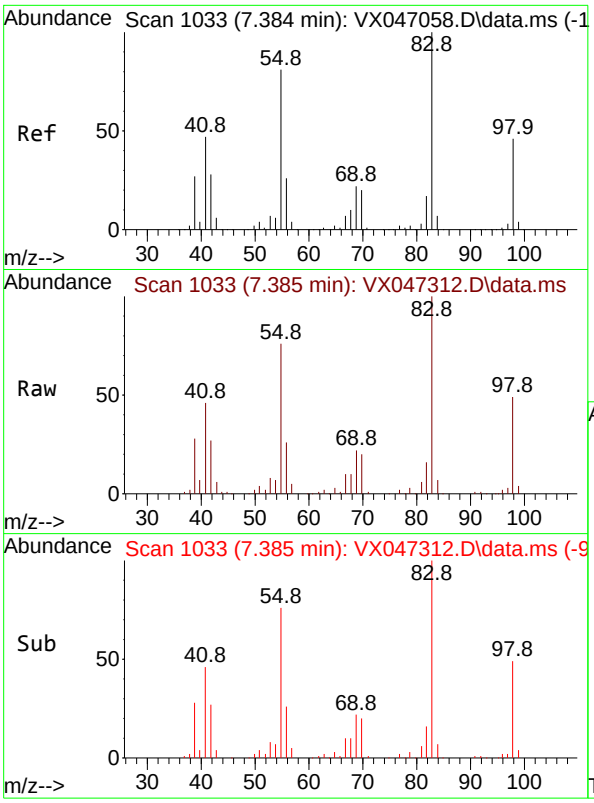


#38
Carbon Tetrachloride
Concen: 19.234 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:117 Resp: 75937

Ion	Ratio	Lower	Upper
117	100		
119	92.9	76.6	115.0
121	32.1	24.4	36.6



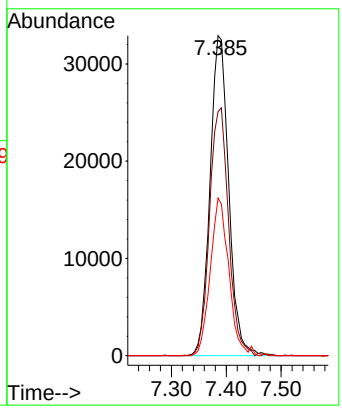


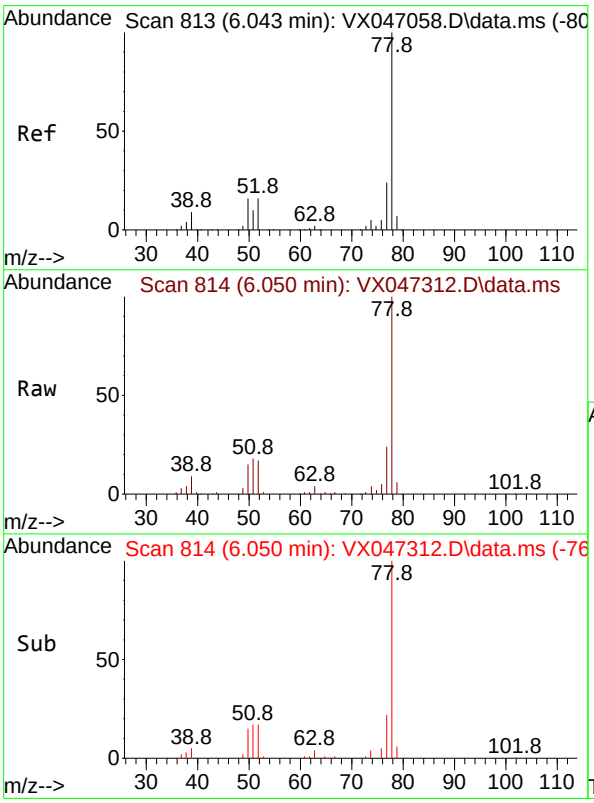
#39
Methylcyclohexane
Concen: 16.879 ug/l
RT: 7.385 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 83 Resp: 77955

Ion	Ratio	Lower	Upper
83	100		
55	76.3	64.5	96.7
98	49.2	36.9	55.3

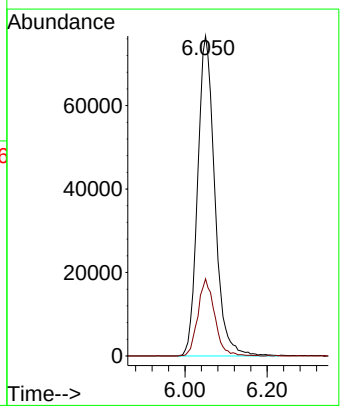


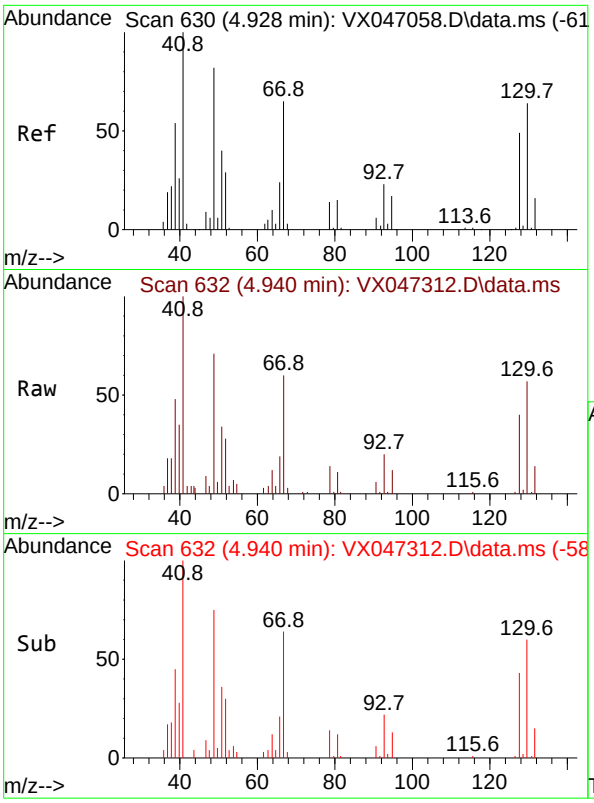


#40
Benzene
Concen: 20.699 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 78 Resp: 221589

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.4



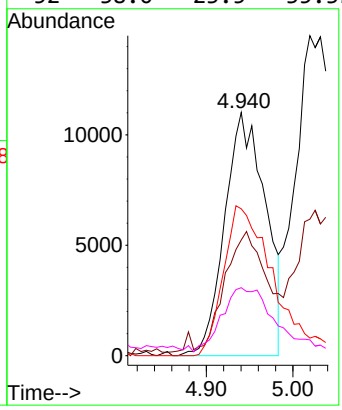


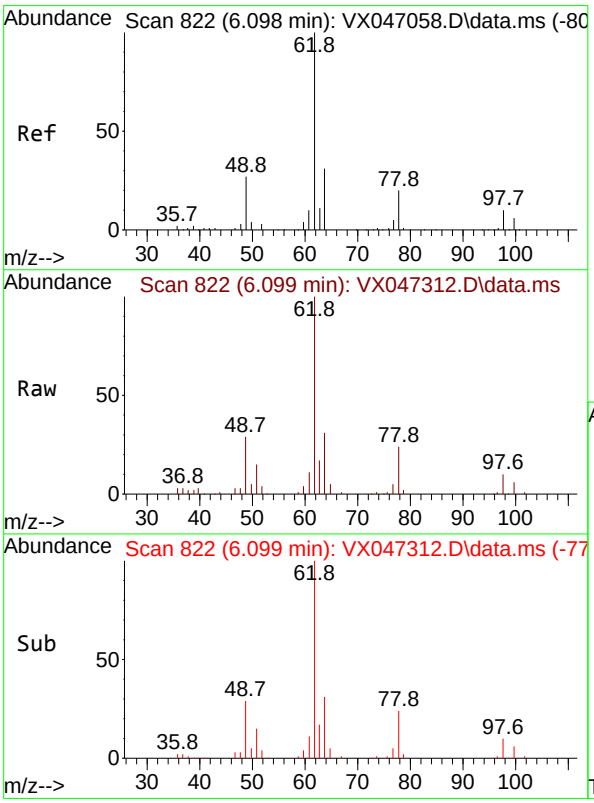
#41
Methacrylonitrile
Concen: 20.202 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.013 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 41 Resp: 36004

Ion	Ratio	Lower	Upper
41	100		
39	50.4	44.2	66.2
67	78.2	56.4	84.6
52	38.0	23.5	35.3#

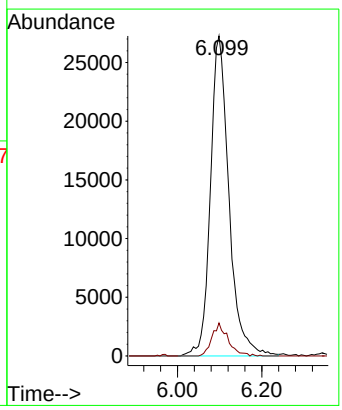


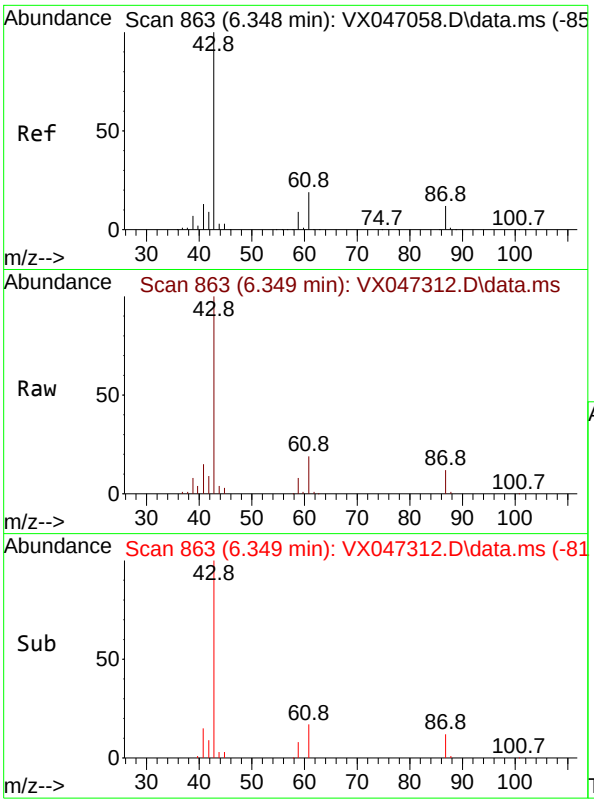


#42
1,2-Dichloroethane
Concen: 22.036 ug/l
RT: 6.099 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 62 Resp: 83097

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	18.8



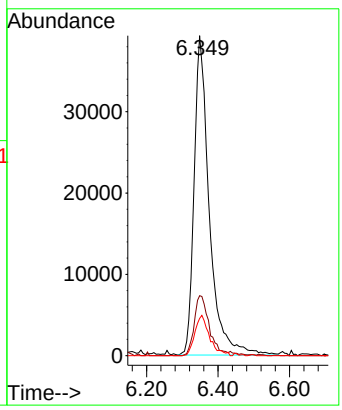


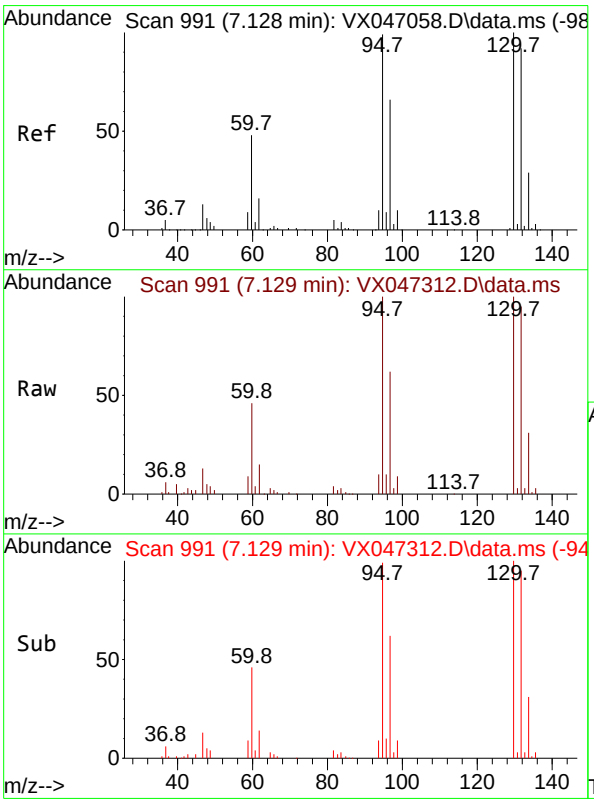
#43
Isopropyl Acetate
Concen: 21.781 ug/l
RT: 6.349 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 43 Resp: 115740

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.1	22.7
87	12.2	9.7	14.5

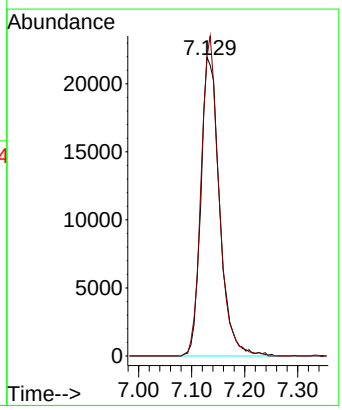


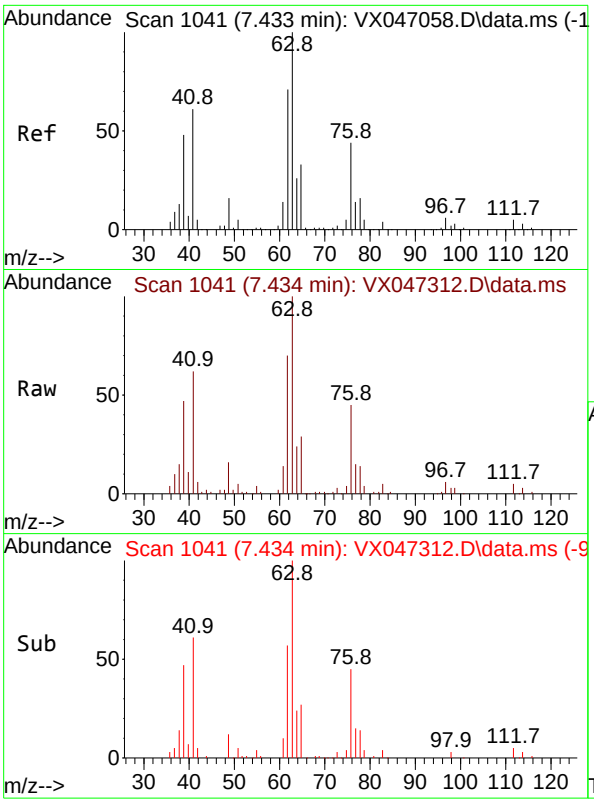


#44
Trichloroethene
Concen: 19.598 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:130 Resp: 53800

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	198.6



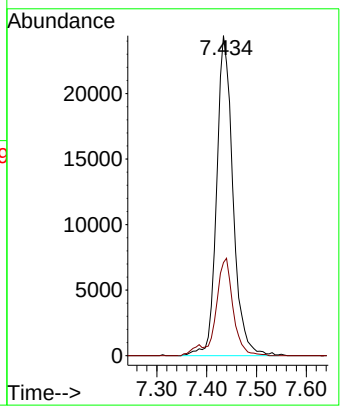


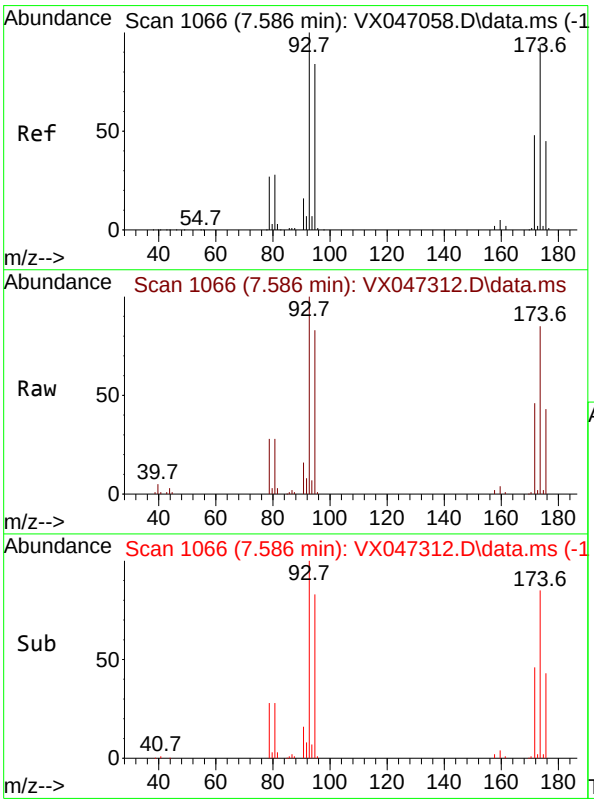
#45
1,2-Dichloropropane
Concen: 20.747 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 63 Resp: 55625

Ion	Ratio	Lower	Upper
63	100		
65	29.1	26.3	39.5

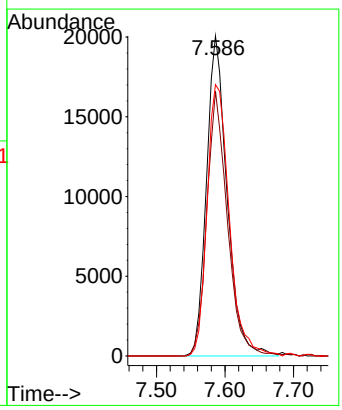


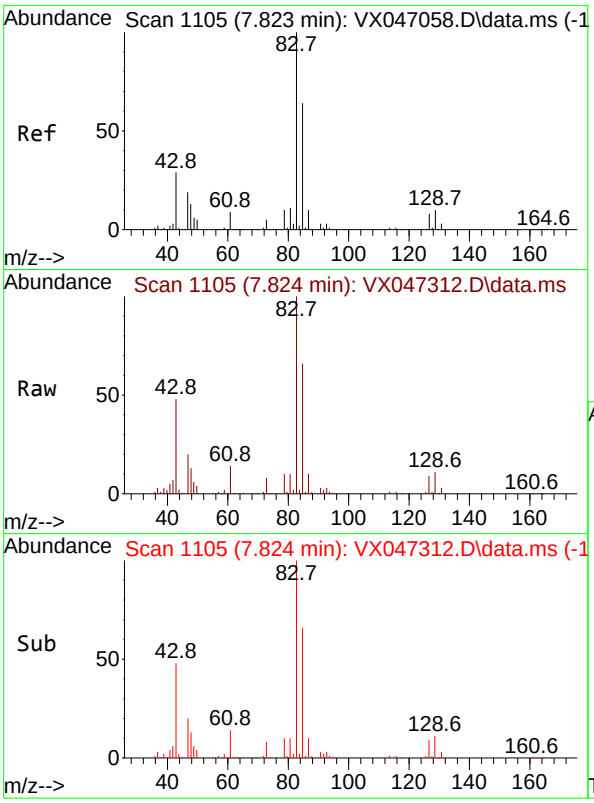


#46
Dibromomethane
Concen: 22.334 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 93 Resp: 41993

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.9	98.9
174	91.3	74.6	112.0



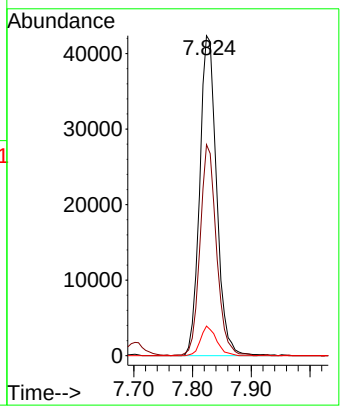


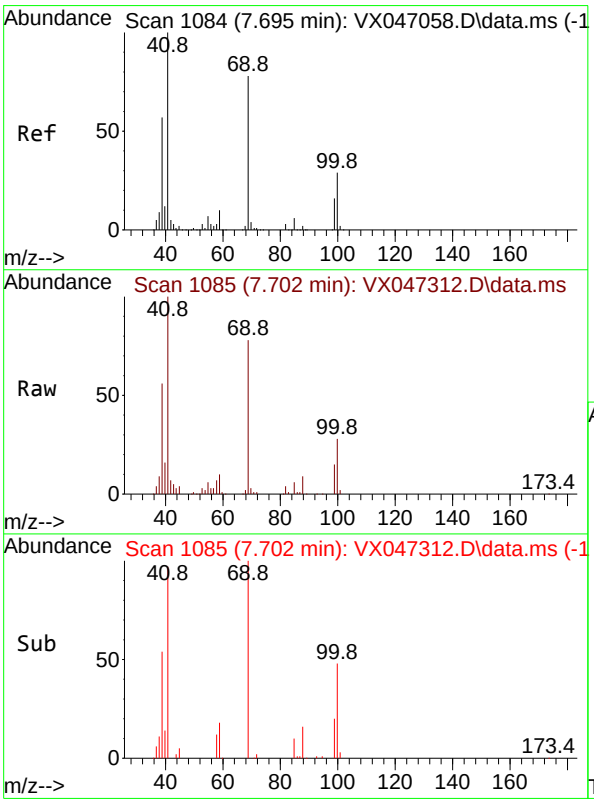
#47
Bromodichloromethane
Concen: 21.180 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 83 Resp: 84762

Ion	Ratio	Lower	Upper
83	100		
85	65.9	49.9	74.9
127	9.2	6.6	10.0

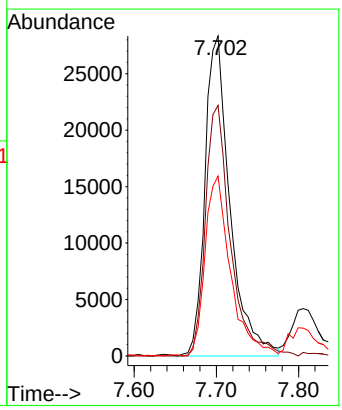


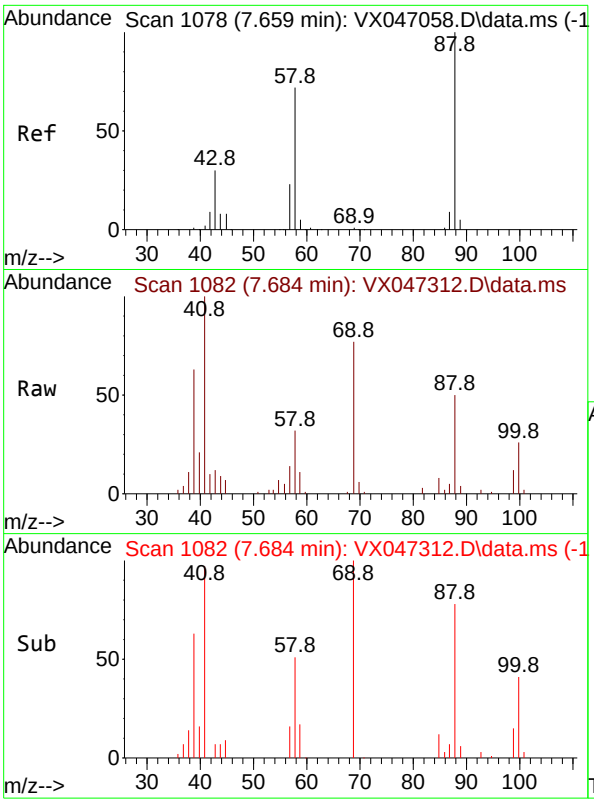


#48
Methyl methacrylate
Concen: 20.720 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 41 Resp: 59981

Ion	Ratio	Lower	Upper
41	100		
69	78.0	62.3	93.5
39	57.4	44.8	67.2



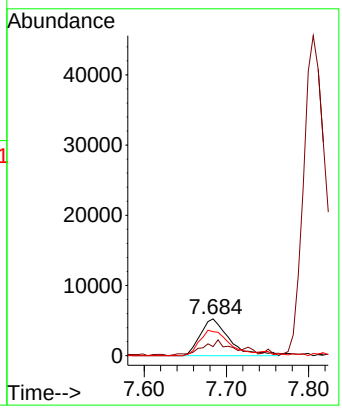


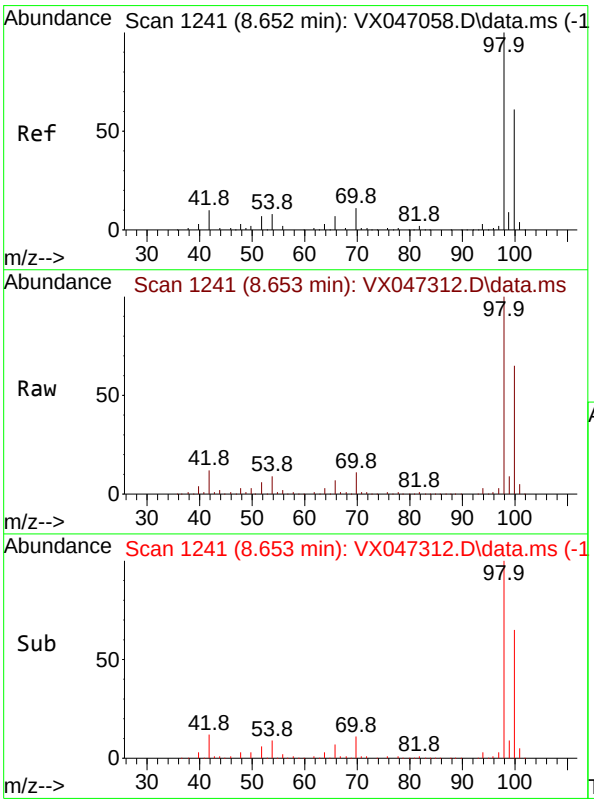
#49
1,4-Dioxane
Concen: 386.524 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.025 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 88 Resp: 12726

Ion	Ratio	Lower	Upper
88	100		
43	38.1	33.6	50.4
58	70.0	58.8	88.2

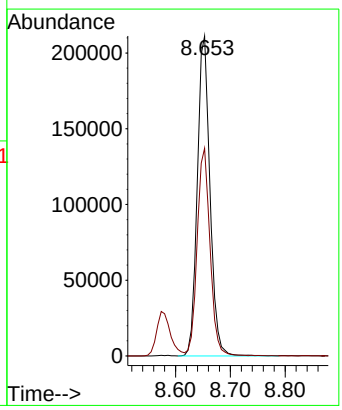


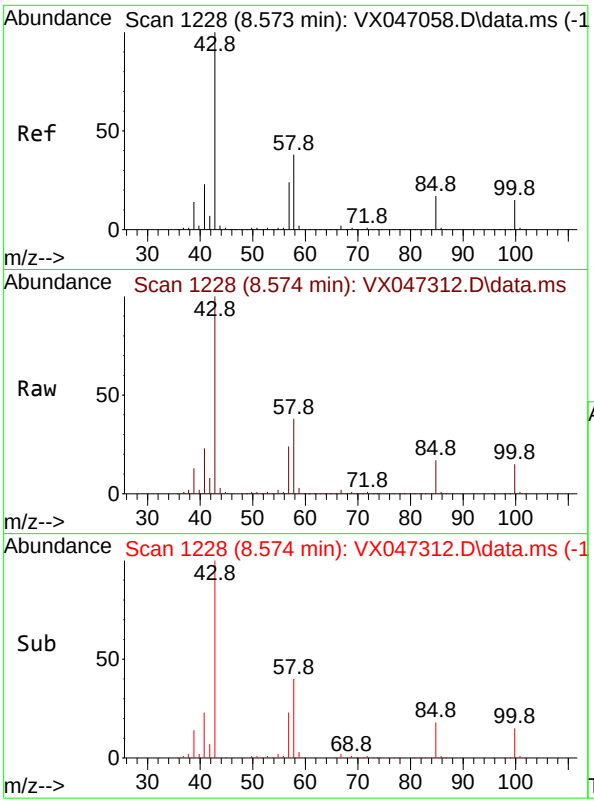


#50
Toluene-d8
Concen: 48.402 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 98 Resp: 340158

Ion	Ratio	Lower	Upper
98	100		
100	65.5	53.3	79.9



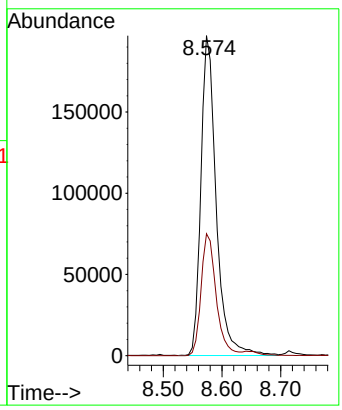


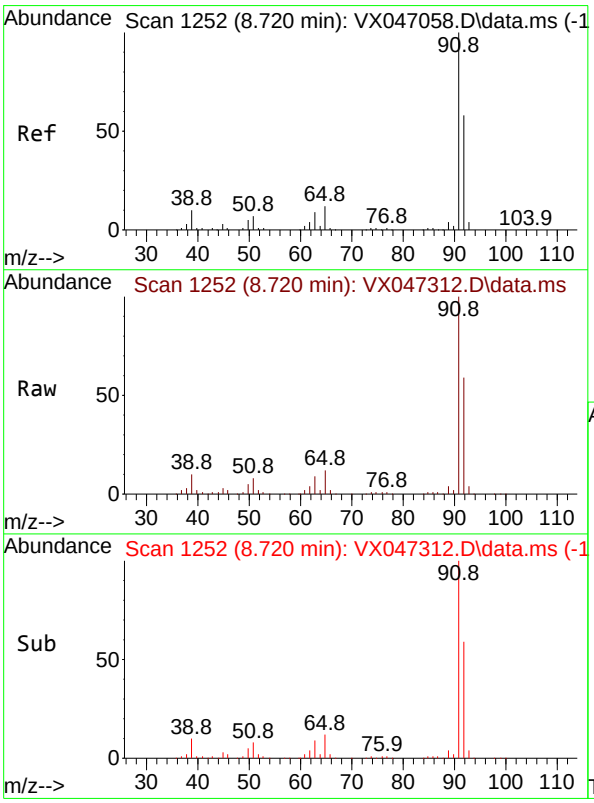
#51
4-Methyl-2-Pentanone
Concen: 112.824 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 43 Resp: 356346

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.6	45.8

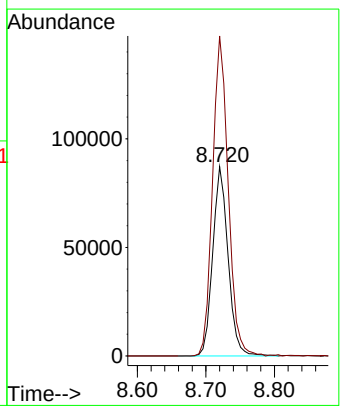


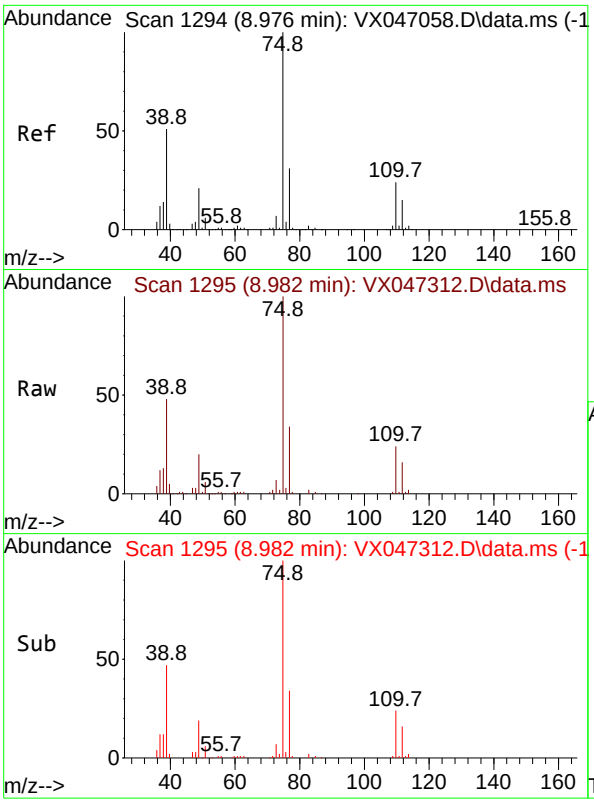


#52
Toluene
Concen: 20.566 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 92 Resp: 135372

Ion	Ratio	Lower	Upper
92	100		
91	172.2	137.9	206.9



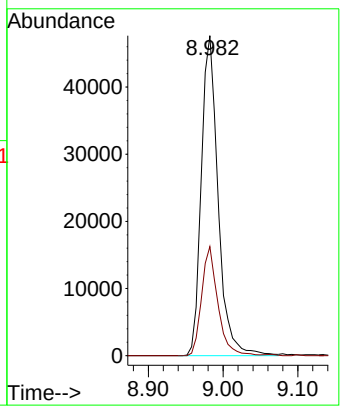


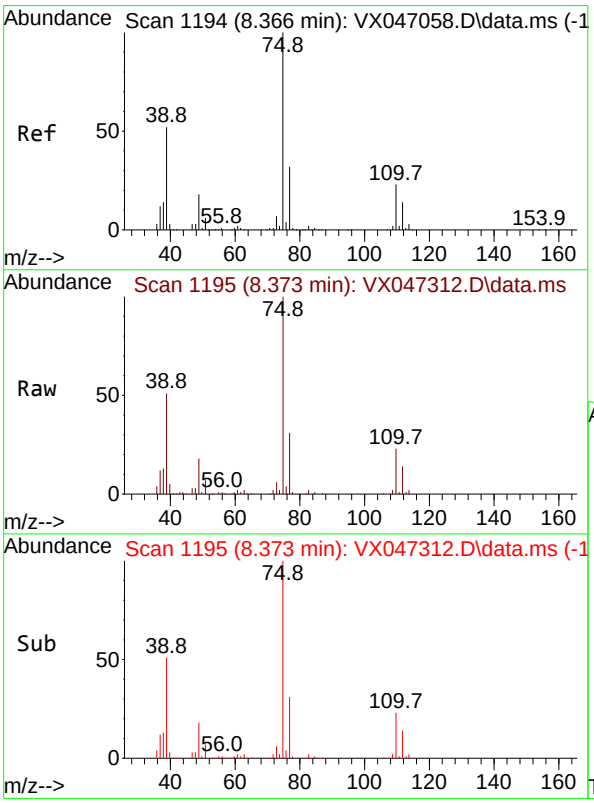
#53
t-1,3-Dichloropropene
Concen: 19.701 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 75 Resp: 74453

Ion	Ratio	Lower	Upper
75	100		
77	34.1	24.5	36.7

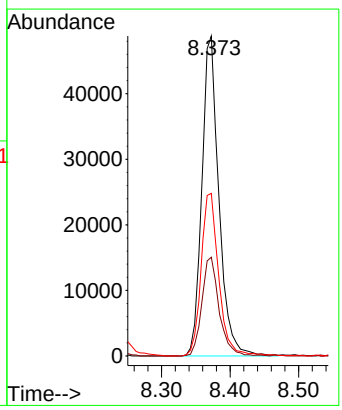


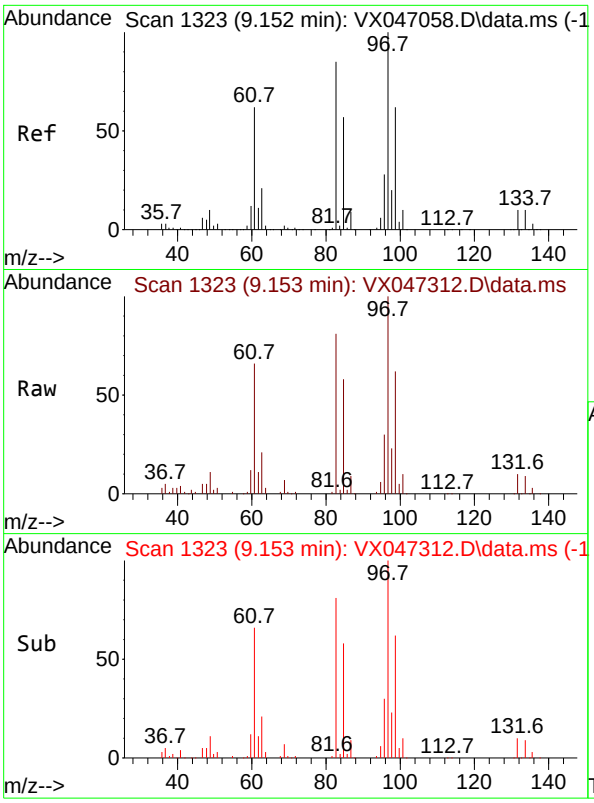


#54
cis-1,3-Dichloropropene
Concen: 20.406 ug/l
RT: 8.373 min Scan# 1195
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 75 Resp: 84401

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.4	38.0
39	48.9	41.8	62.6



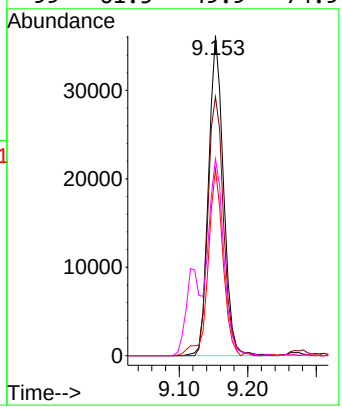


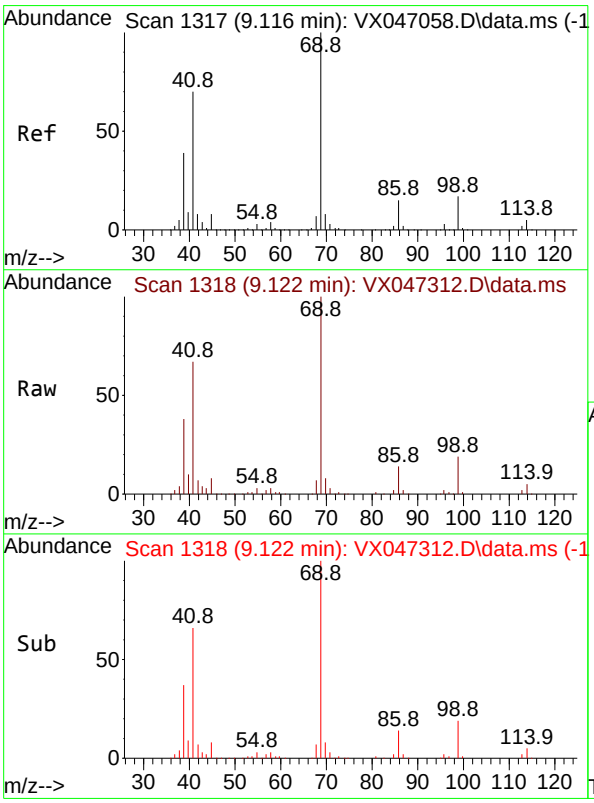
#55
1,1,2-Trichloroethane
Concen: 22.240 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 97 Resp: 54901

Ion	Ratio	Lower	Upper
97	100		
83	80.9	68.0	102.0
85	58.3	45.2	67.8
99	61.5	49.9	74.9

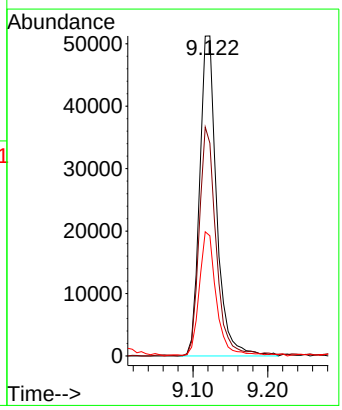


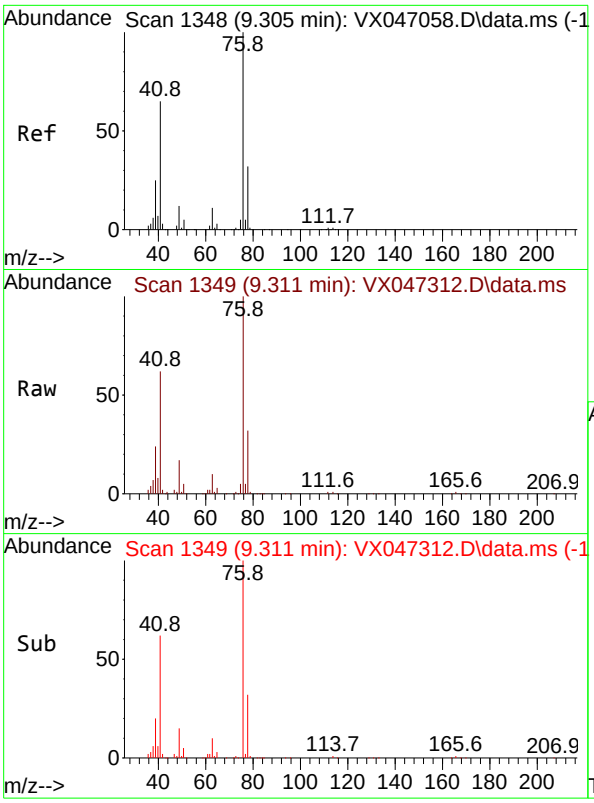


#56
Ethyl methacrylate
Concen: 22.128 ug/l
RT: 9.122 min Scan# 1318
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 69 Resp: 80865

Ion	Ratio	Lower	Upper
69	100		
41	71.9	56.1	84.1
39	39.5	31.1	46.7



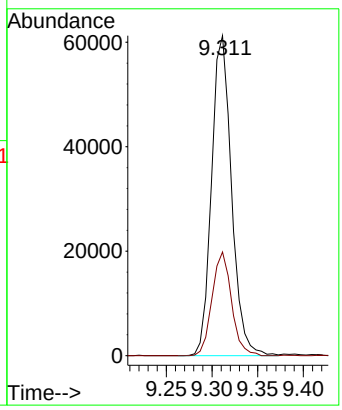


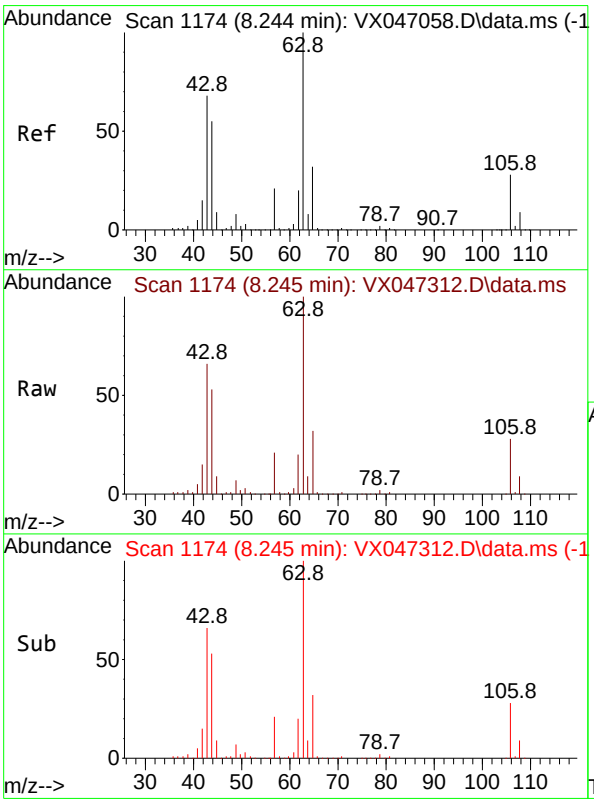
#57
1,3-Dichloropropane
Concen: 21.679 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 76 Resp: 93007

Ion	Ratio	Lower	Upper
76	100		
78	31.5	25.5	38.3

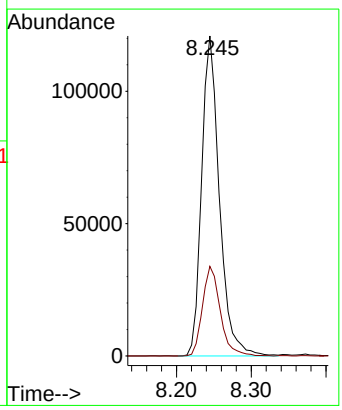


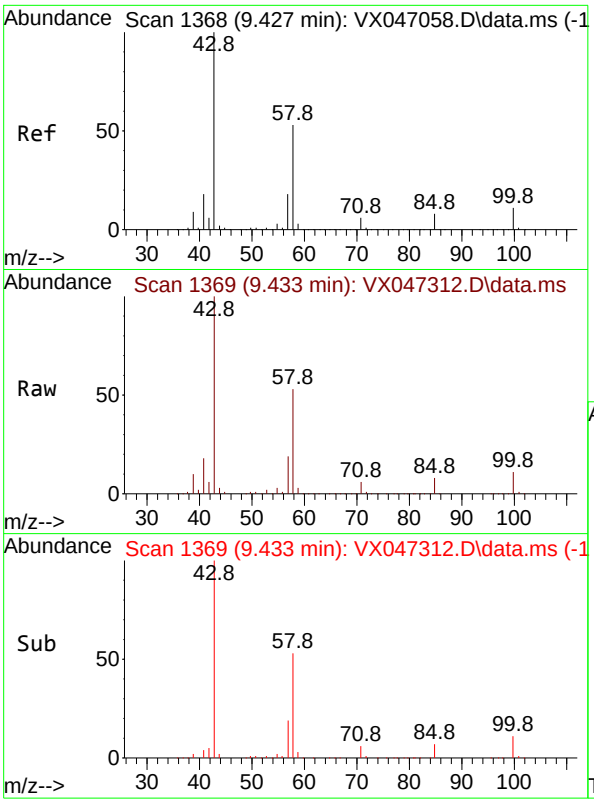


#58
2-Chloroethyl Vinyl ether
Concen: 98.129 ug/l
RT: 8.245 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 63 Resp: 199555

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.2	33.4



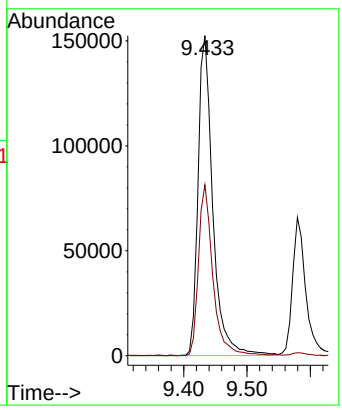


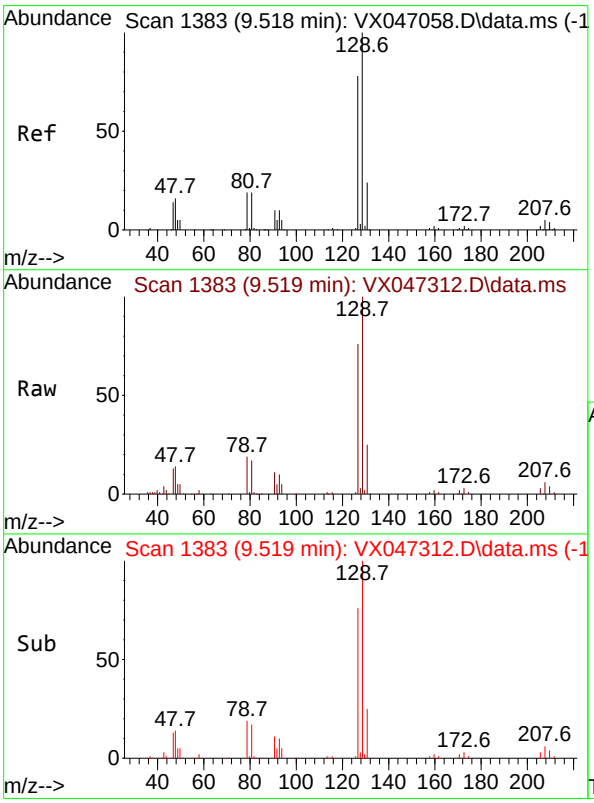
#59
2-Hexanone
Concen: 118.411 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 43 Resp: 247091

Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.5	79.5

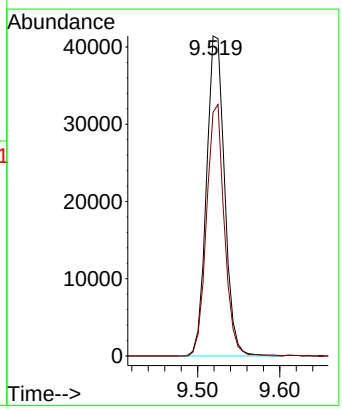


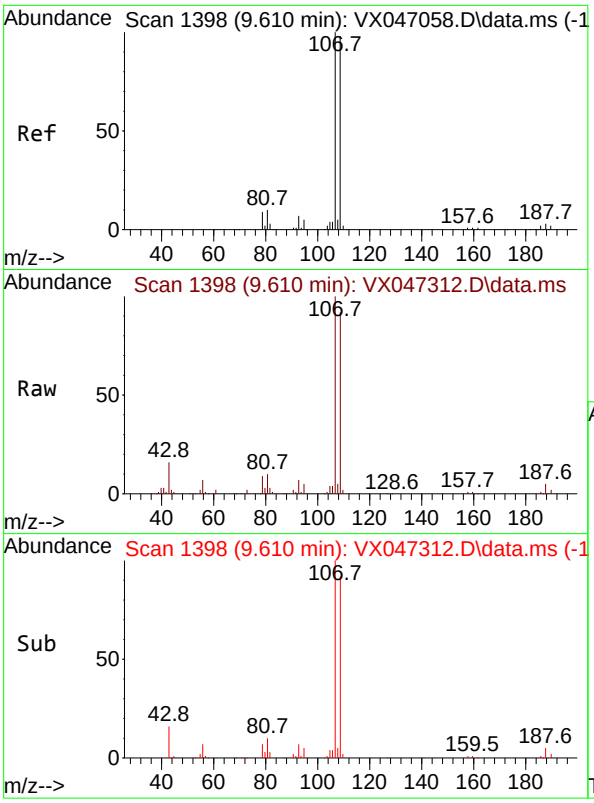


#60
Dibromochloromethane
Concen: 21.795 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:129 Resp: 63101

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.6	115.8



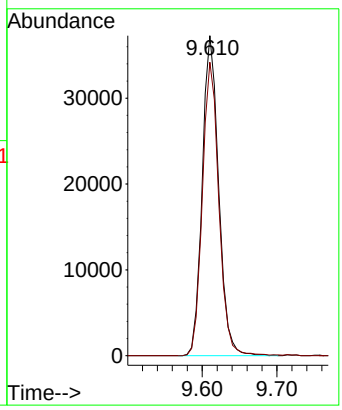


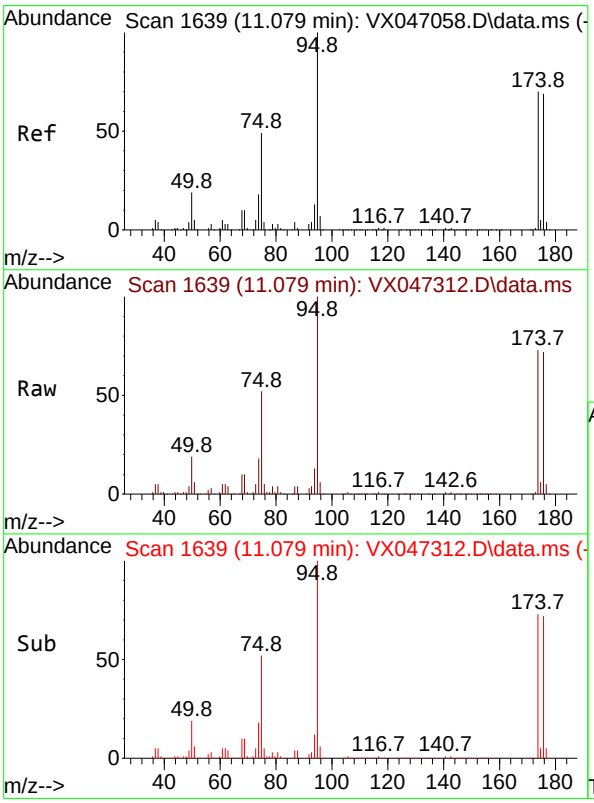
#61
1,2-Dibromoethane
Concen: 22.006 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:107 Resp: 56802

Ion	Ratio	Lower	Upper
107	100		
109	92.1	74.6	112.0

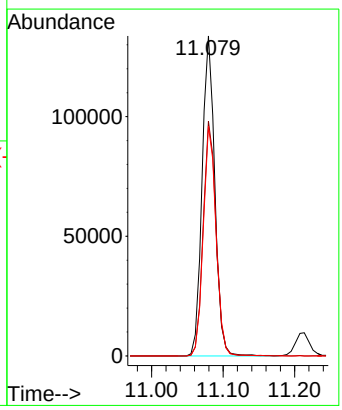


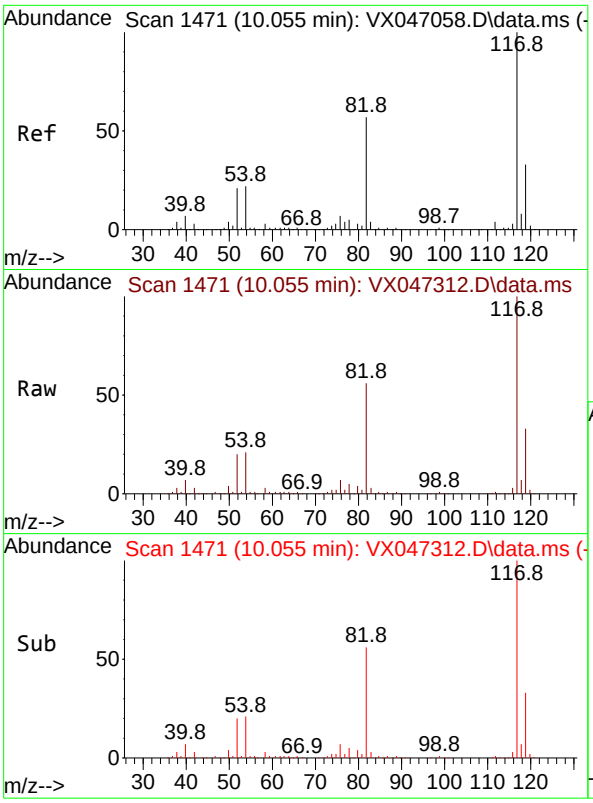


#62
4-Bromofluorobenzene
Concen: 54.374 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 95 Resp: 164675

Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	144.6
176	72.3	0.0	139.6



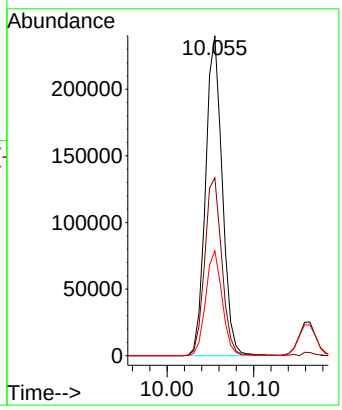


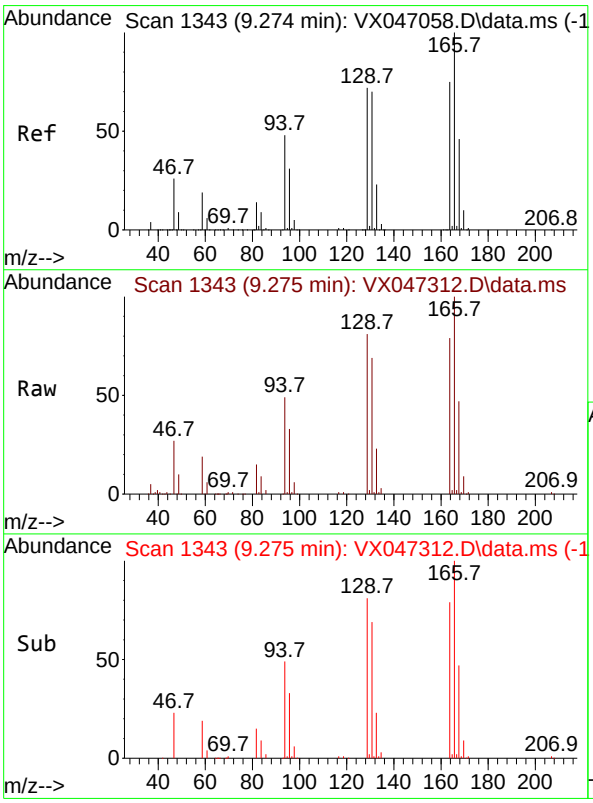
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:117 Resp: 321390

Ion	Ratio	Lower	Upper
117	100		
82	55.6	45.4	68.2
119	32.8	26.1	39.1

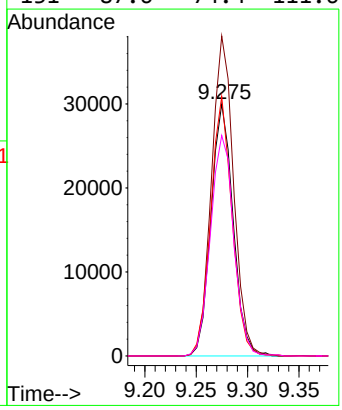


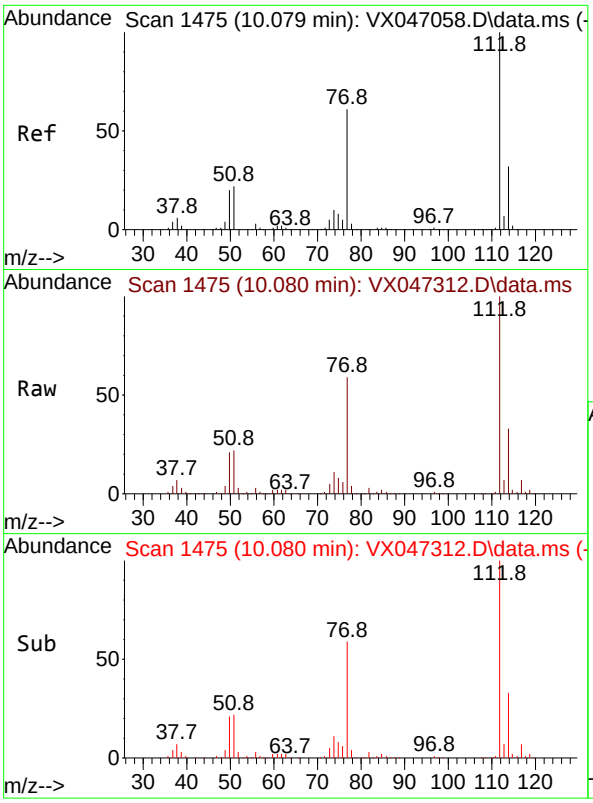


#64
Tetrachloroethene
Concen: 19.291 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:164 Resp: 44694

Ion	Ratio	Lower	Upper
164	100		
166	127.1	106.2	159.4
129	103.0	76.6	114.8
131	87.6	74.4	111.6



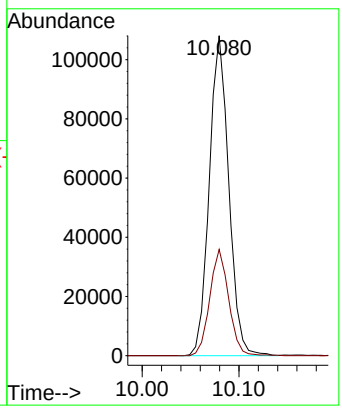


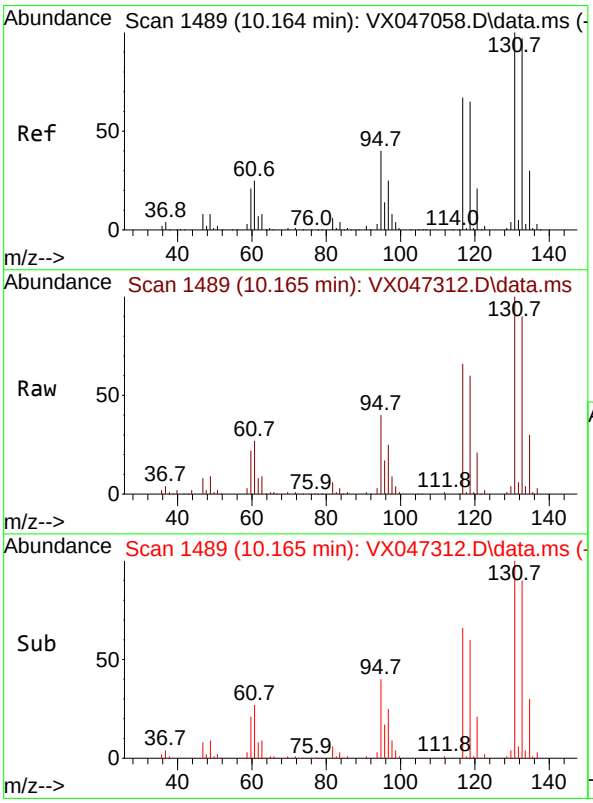
#65
Chlorobenzene
Concen: 20.093 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:112 Resp: 151282

Ion	Ratio	Lower	Upper
112	100		
114	33.2	25.8	38.6

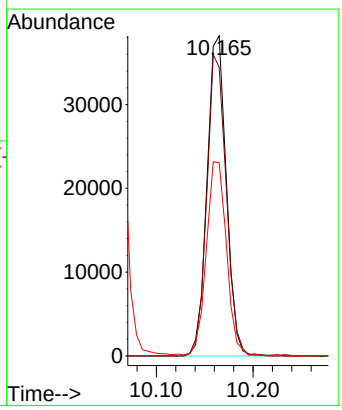


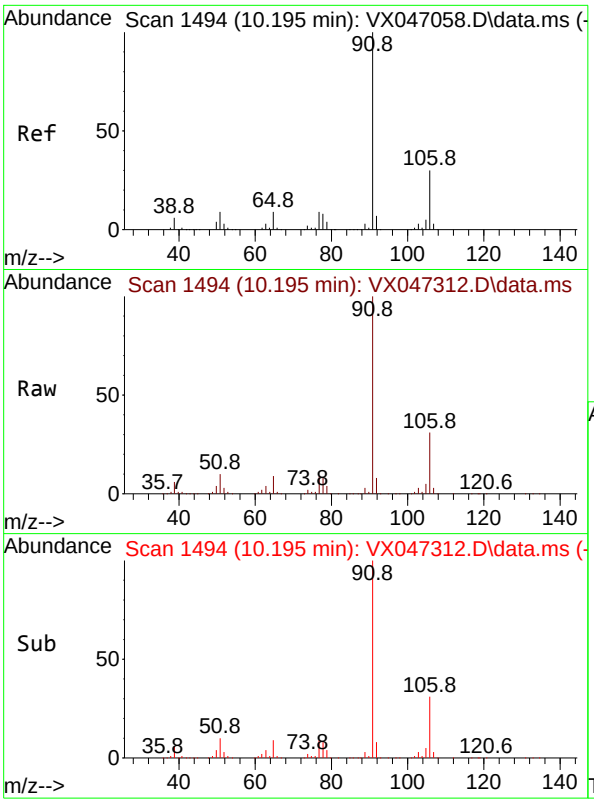


#66
1,1,1,2-Tetrachloroethane
Concen: 20.861 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:131 Resp: 52881

Ion	Ratio	Lower	Upper
131	100		
133	94.9	48.4	145.3
119	63.8	32.4	97.0



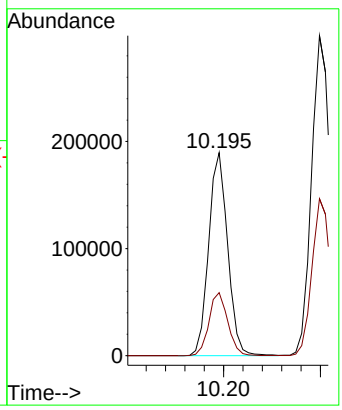


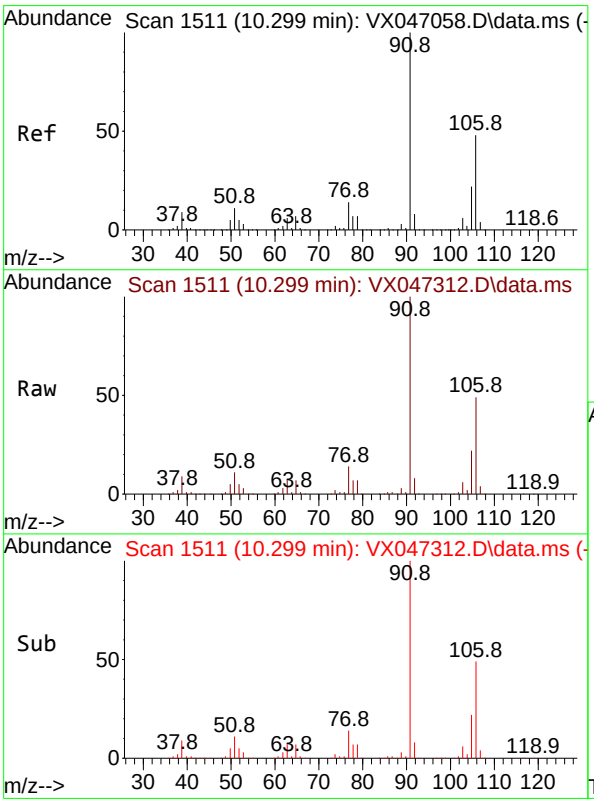
#67
Ethyl Benzene
Concen: 19.627 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 91 Resp: 258375

Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.2	36.4

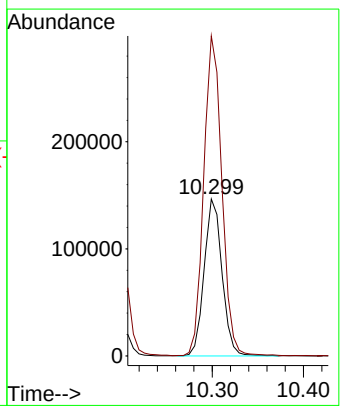


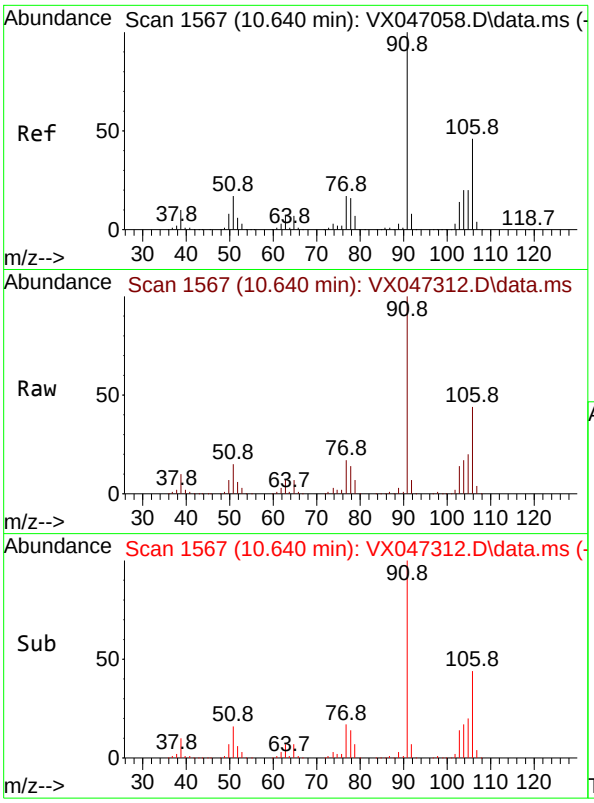


#68
m/p-Xylenes
Concen: 40.364 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:106 Resp: 198849

Ion	Ratio	Lower	Upper
106	100		
91	206.2	167.4	251.0



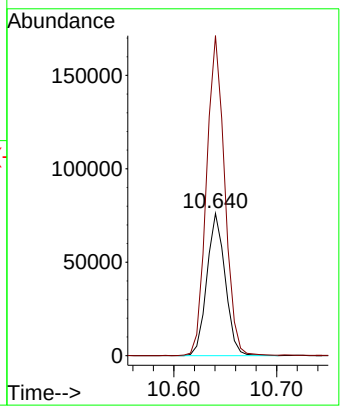


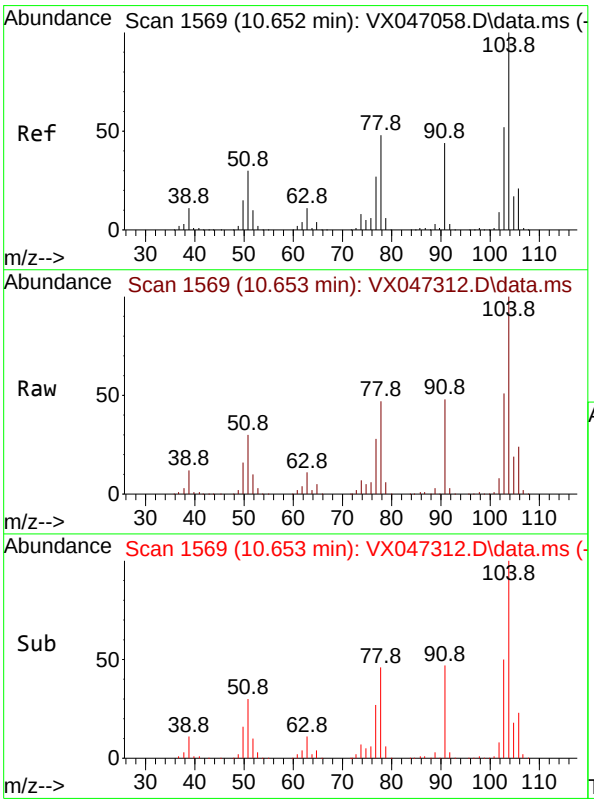
#69
o-Xylene
Concen: 20.141 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:106 Resp: 94390

Ion	Ratio	Lower	Upper
106	100		
91	223.9	110.3	331.0

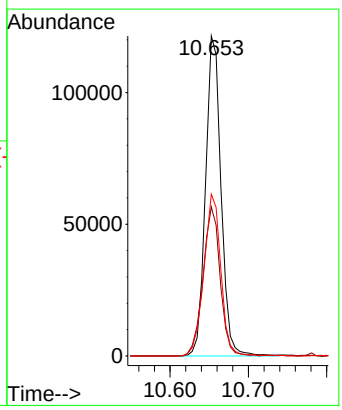


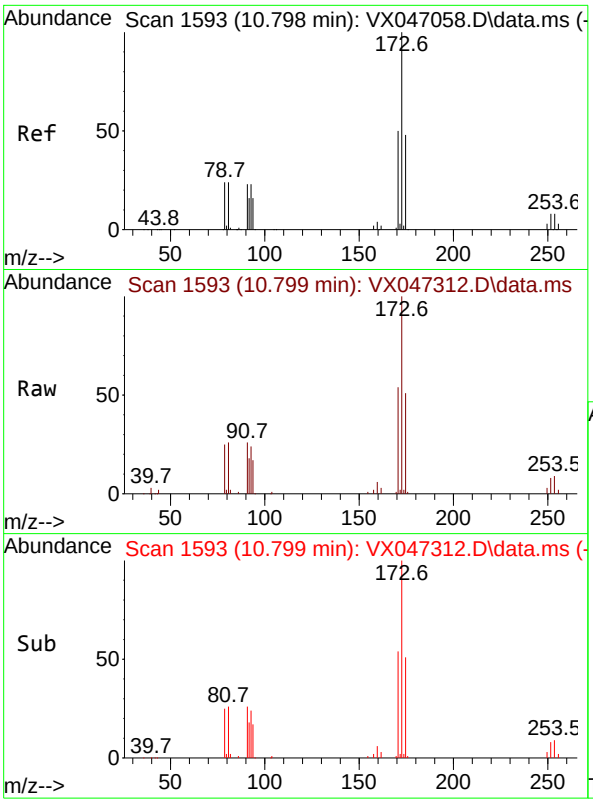


#70
Styrene
Concen: 20.739 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:104 Resp: 166666

Ion	Ratio	Lower	Upper
104	100		
78	51.6	42.0	63.0
103	55.3	43.8	65.6



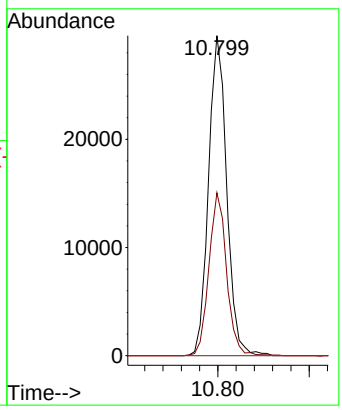


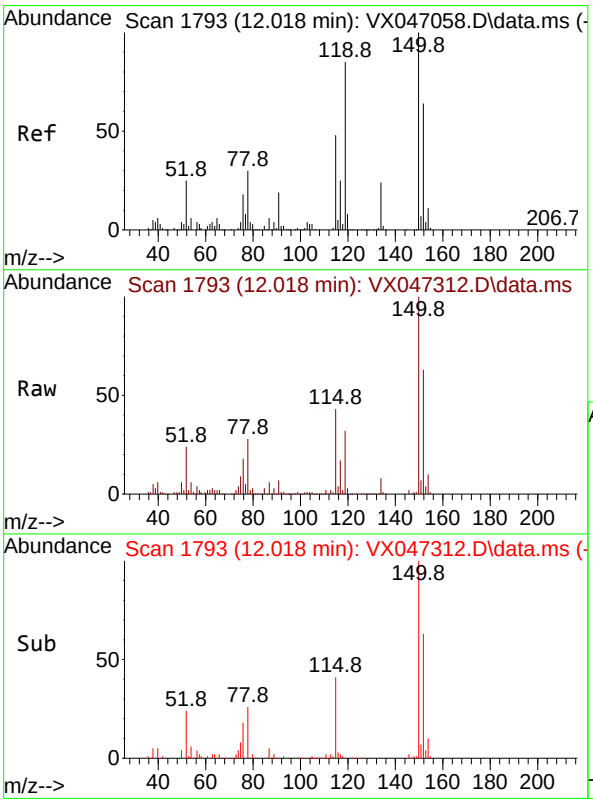
#71
Bromoform
Concen: 21.130 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:173 Resp: 40688

Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.2	72.6
254	0.0	0.1	0.1#

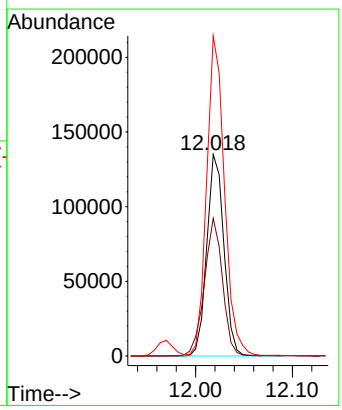


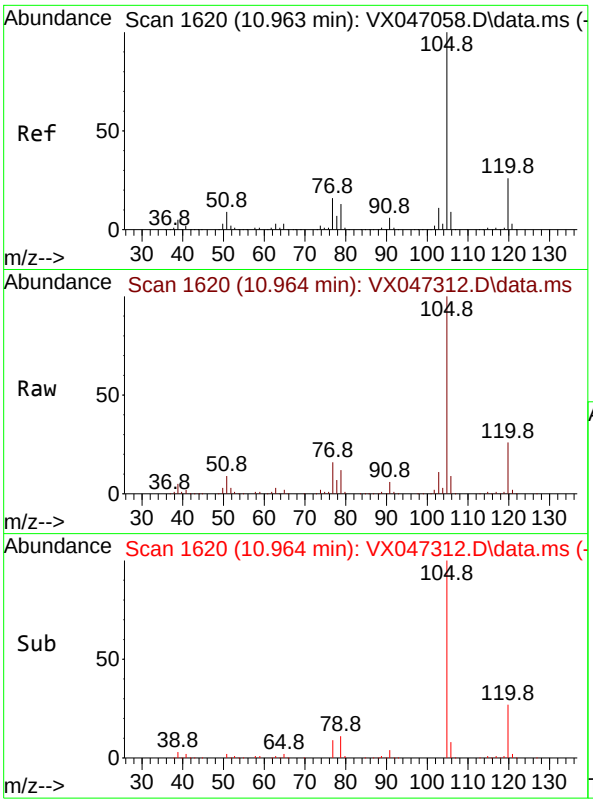


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:152 Resp: 166290

Ion	Ratio	Lower	Upper
152	100		
115	72.3	45.6	136.7
150	164.5	0.0	354.6



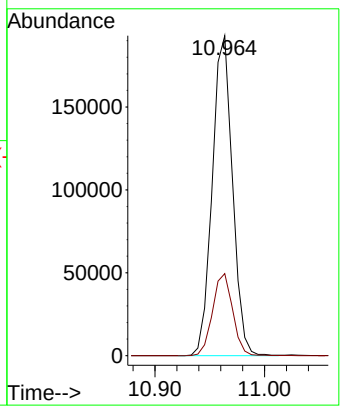


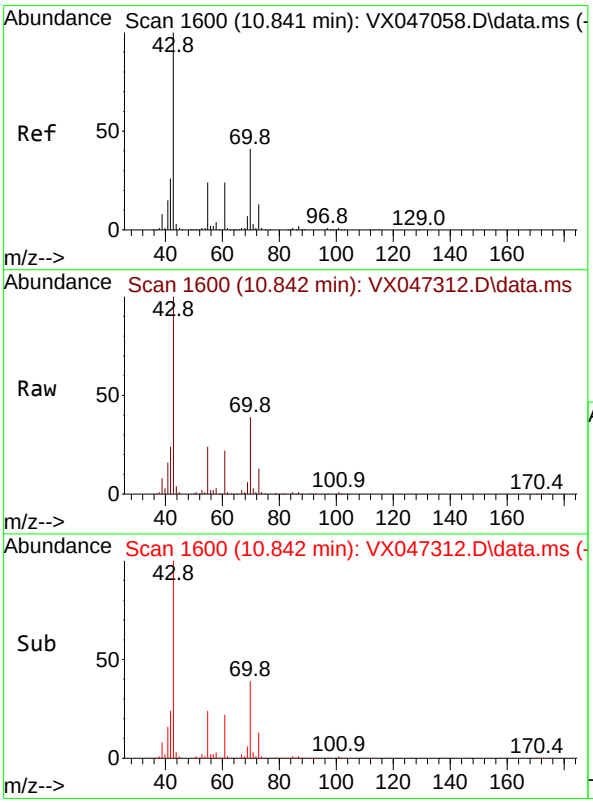
#73
Isopropylbenzene
Concen: 18.860 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:105 Resp: 247425

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.9	38.7

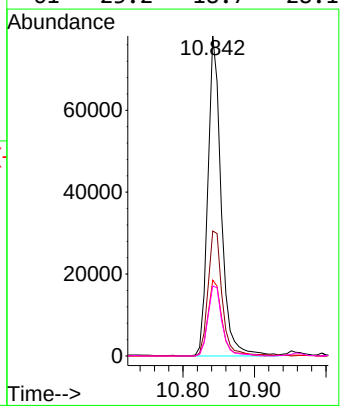


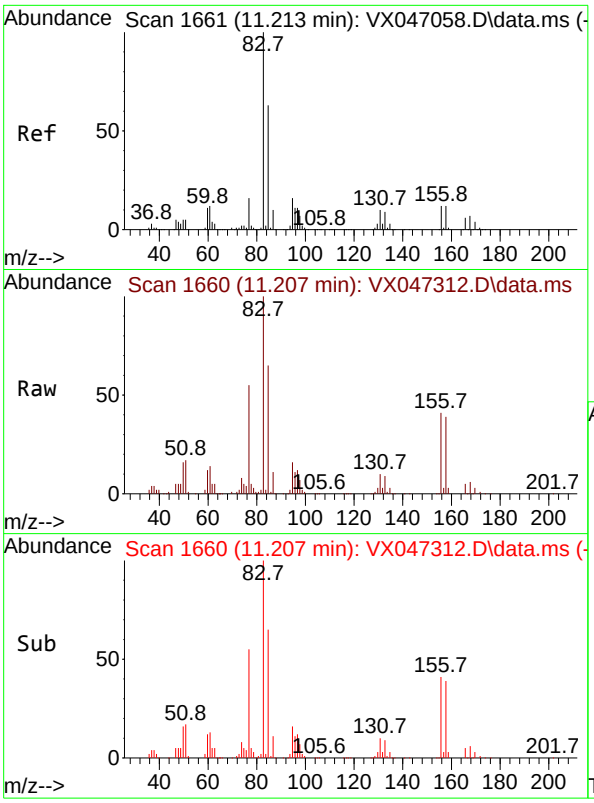


#74
N-amyl acetate
Concen: 19.236 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 43 Resp: 101822

Ion	Ratio	Lower	Upper
43	100		
70	41.3	32.3	48.5
55	24.6	18.9	28.3
61	23.2	18.7	28.1



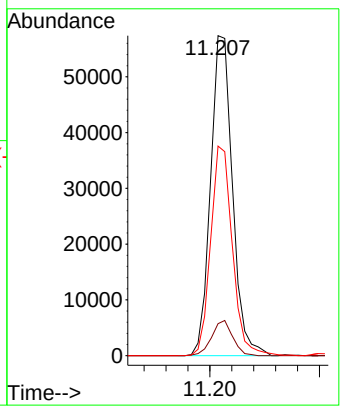


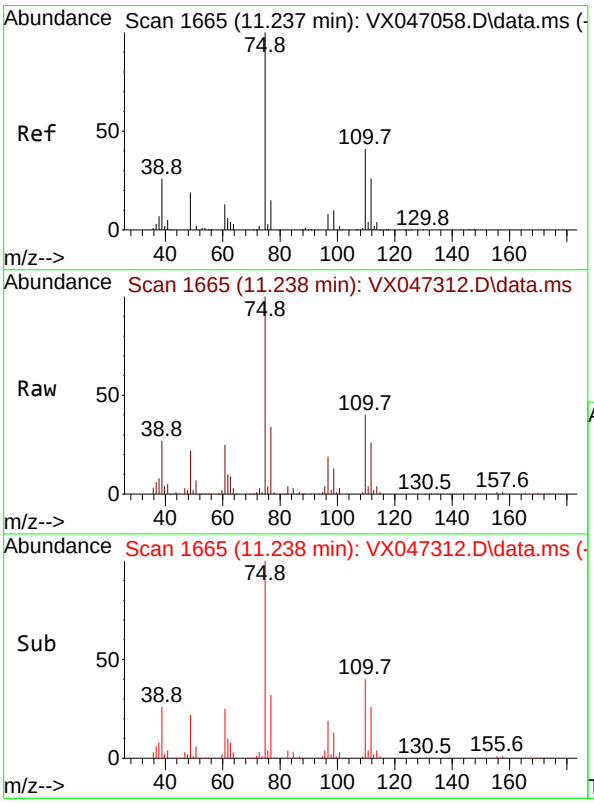
#75
1,1,2,2-Tetrachloroethane
Concen: 21.261 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 83 Resp: 79675

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.0	14.9
85	64.9	32.0	96.2

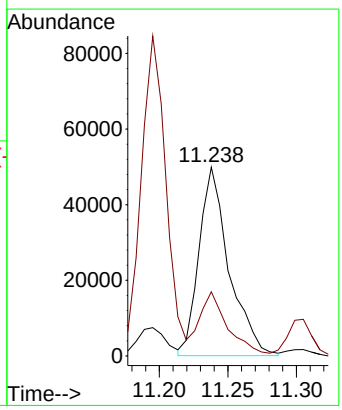


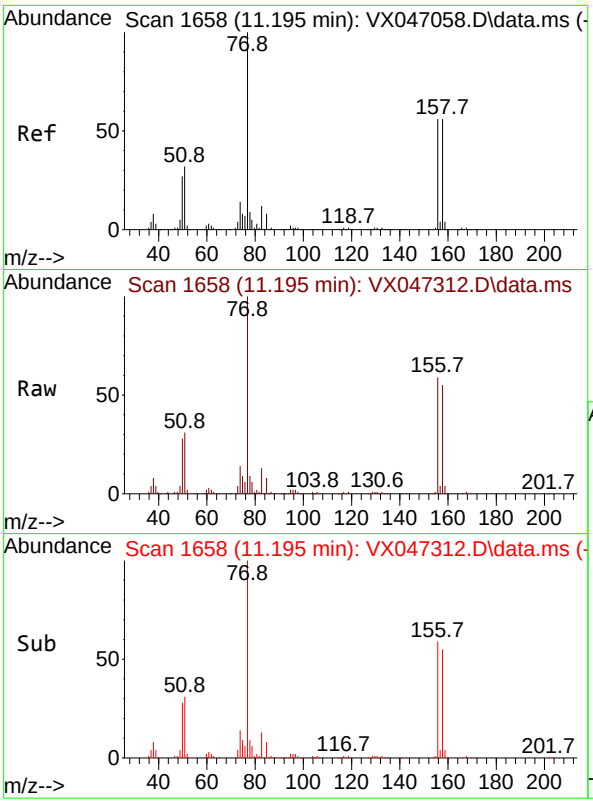


#76
1,2,3-Trichloropropane
Concen: 24.752 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 75 Resp: 76185

Ion	Ratio	Lower	Upper
75	100		
77	32.4	21.6	65.0



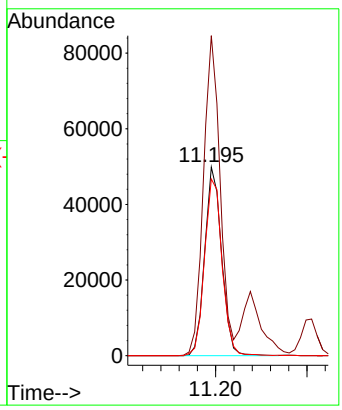


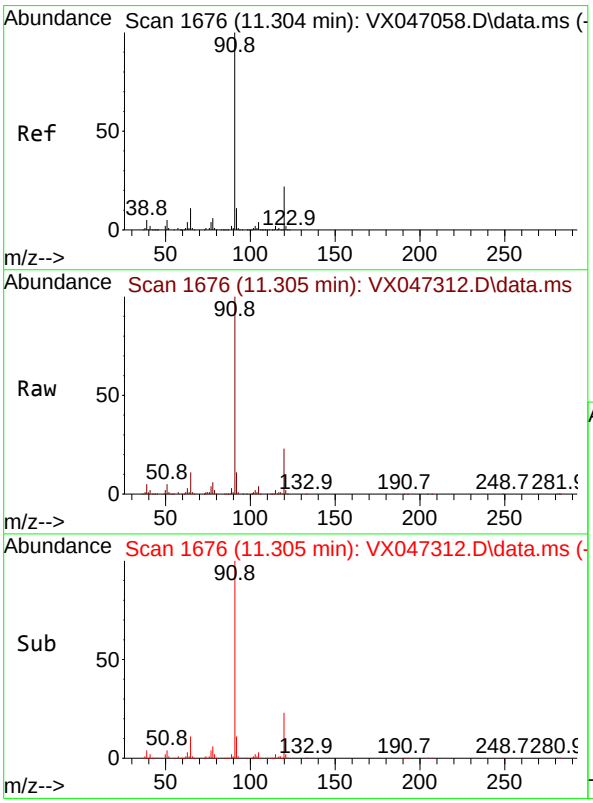
#77
Bromobenzene
Concen: 20.293 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:156 Resp: 63857

Ion	Ratio	Lower	Upper
156	100		
77	167.1	87.3	261.9
158	97.4	48.9	146.6

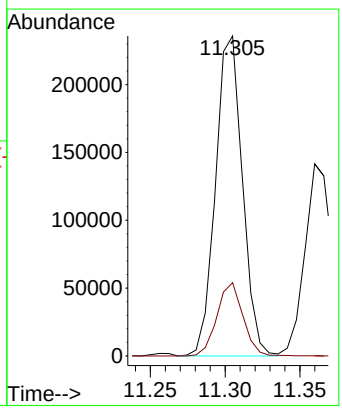


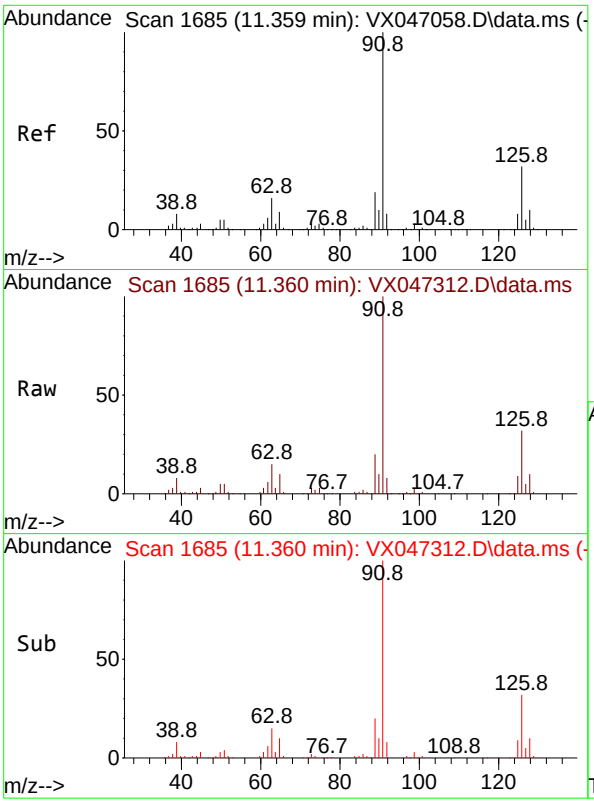


#78
n-propylbenzene
Concen: 18.808 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 91 Resp: 294861

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0



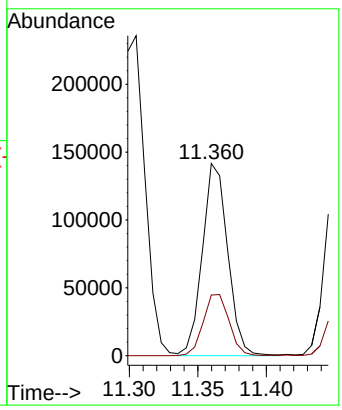


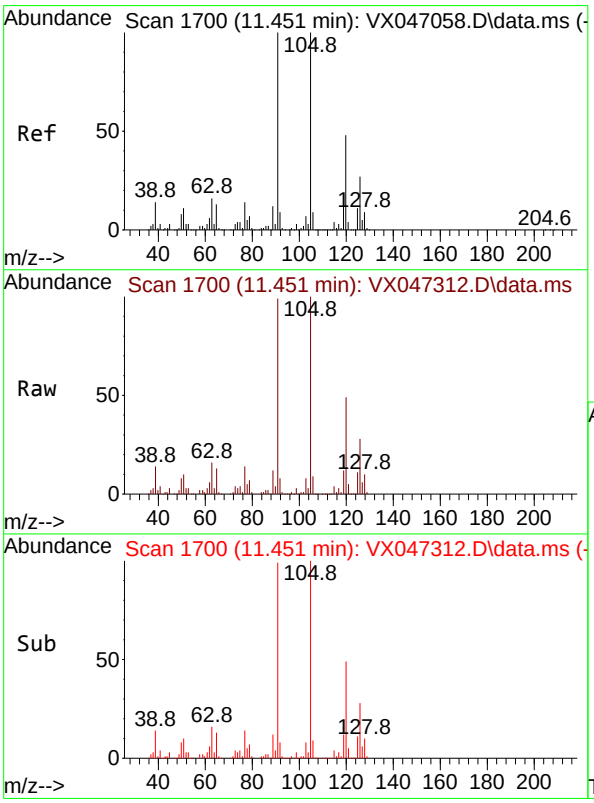
#79
2-Chlorotoluene
Concen: 19.469 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 91 Resp: 182451

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.4	49.4

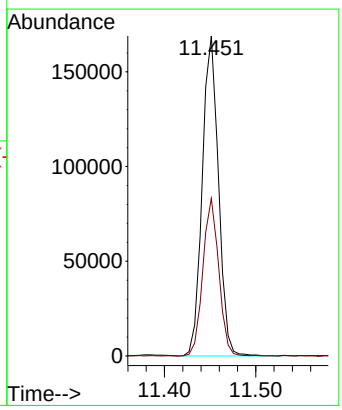


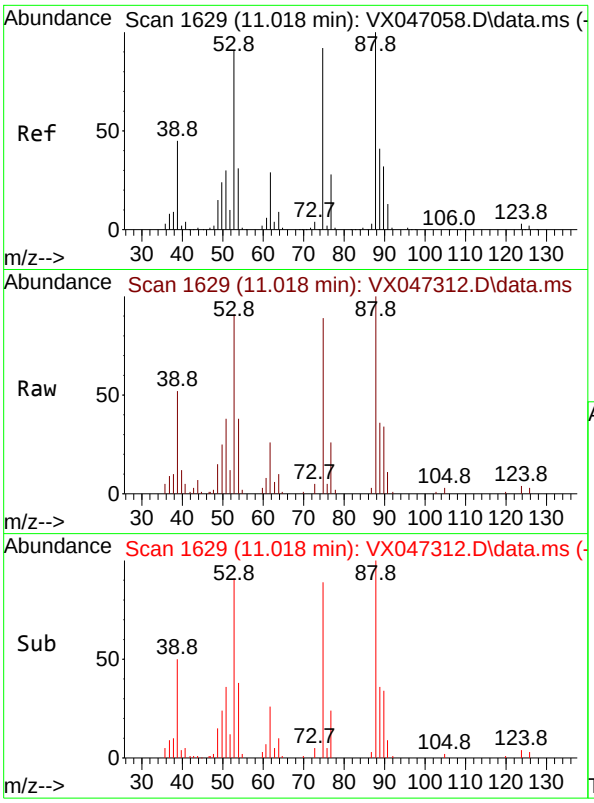


#80
1,3,5-Trimethylbenzene
Concen: 19.170 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:105 Resp: 207773

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.8	71.5



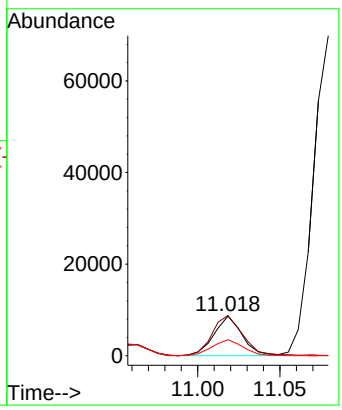


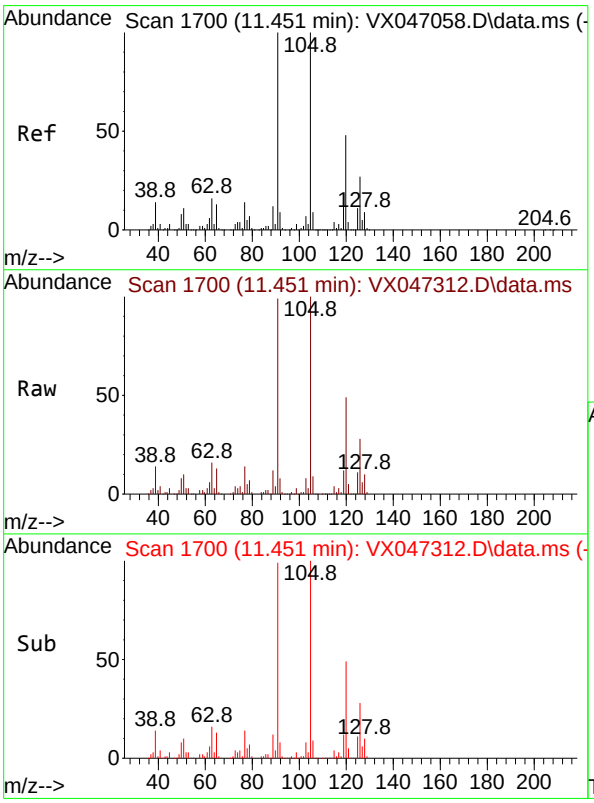
#81
trans-1,4-Dichloro-2-butene
Concen: 8.627 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 75 Resp: 10307

Ion	Ratio	Lower	Upper
75	100		
53	111.2	84.2	126.4
89	44.2	36.0	54.0

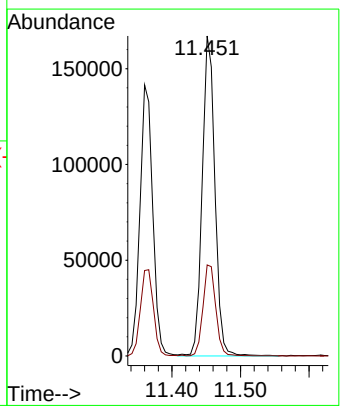


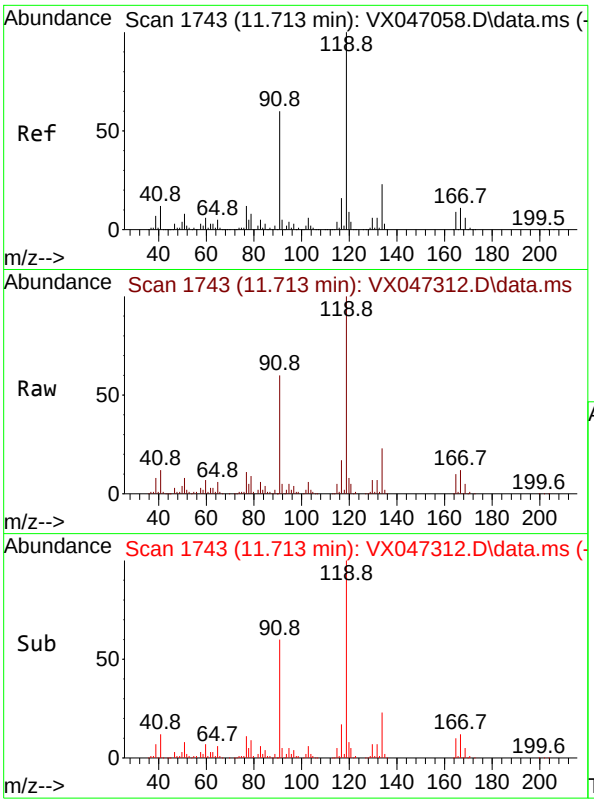


#82
4-Chlorotoluene
Concen: 19.738 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 91 Resp: 215901

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.1	42.3



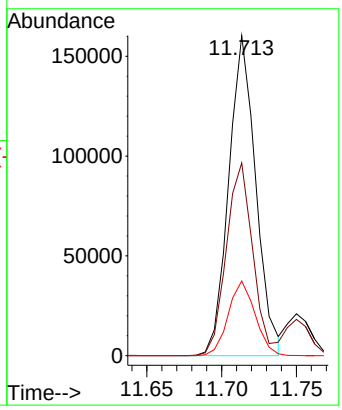


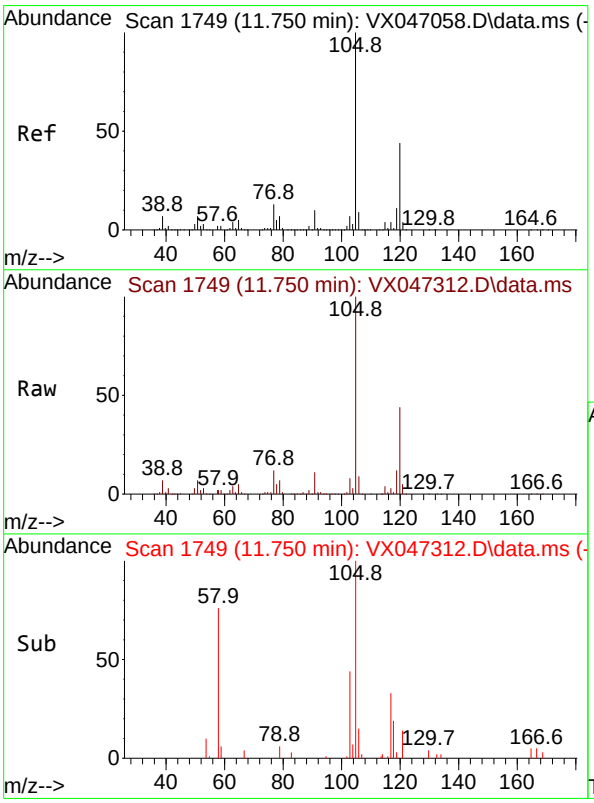
#83
tert-Butylbenzene
Concen: 18.575 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:119 Resp: 202063

Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.6	88.8
134	23.2	11.4	34.1

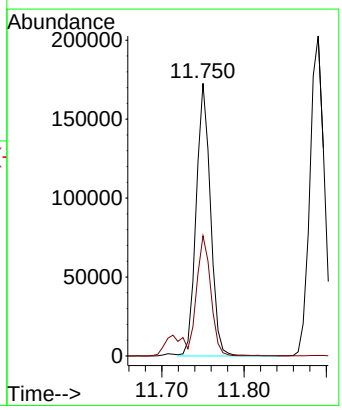


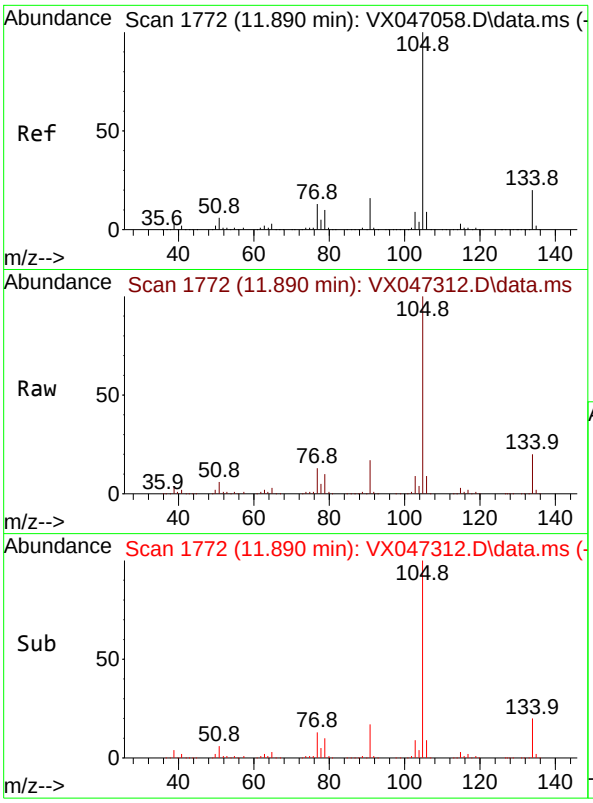


#84
1,2,4-Trimethylbenzene
Concen: 19.236 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:105 Resp: 207952

Ion	Ratio	Lower	Upper
105	100		
120	43.2	22.0	66.0



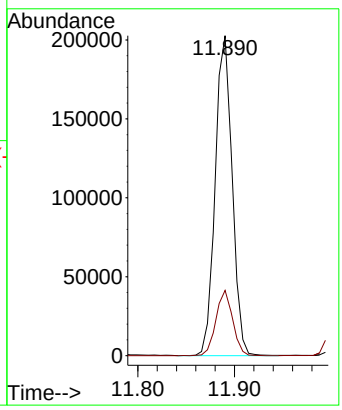


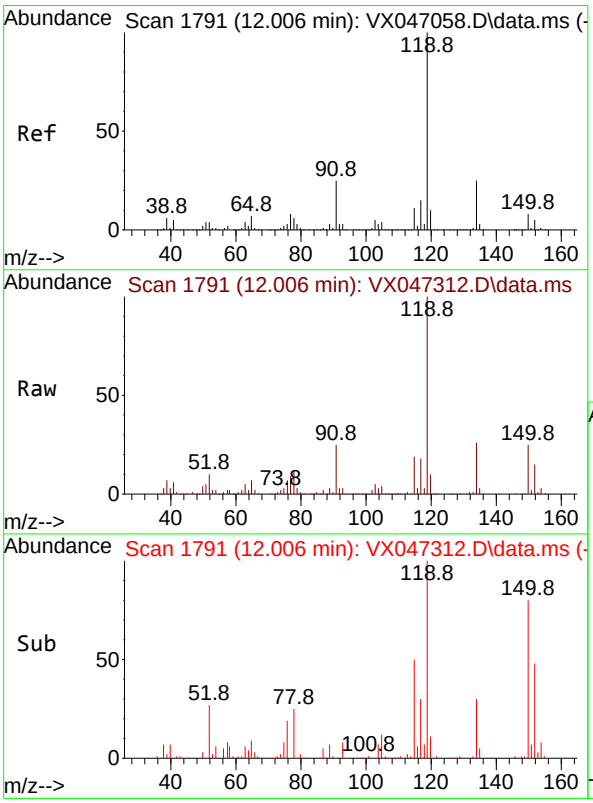
#85
sec-Butylbenzene
Concen: 18.146 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:105 Resp: 246647

Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.9	29.7

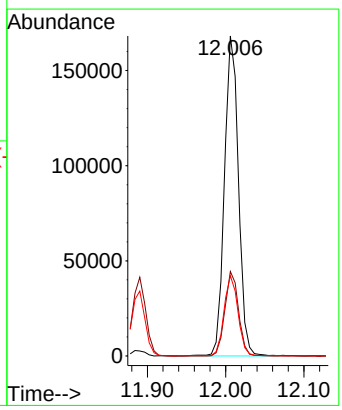


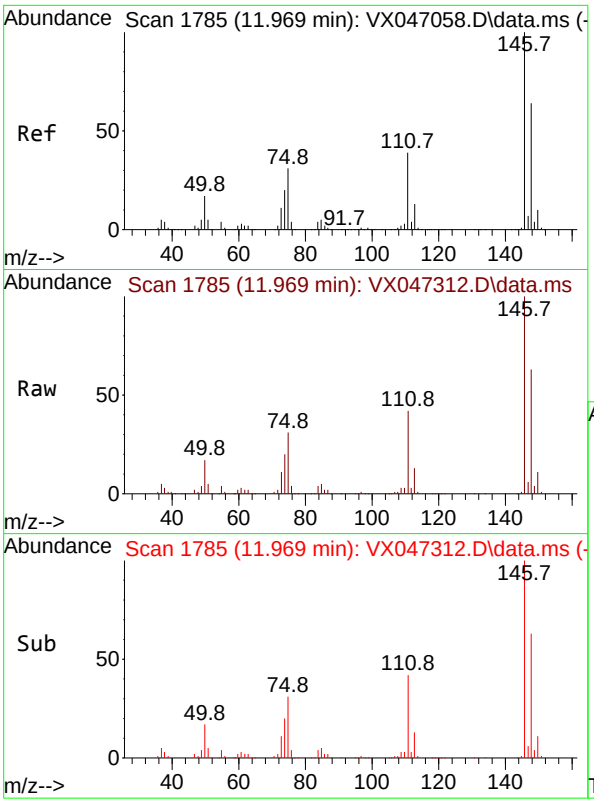


#86
p-Isopropyltoluene
Concen: 18.597 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:119 Resp: 209624

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.8	38.4
91	24.9	12.4	37.4



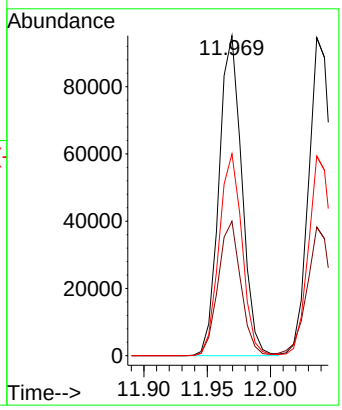


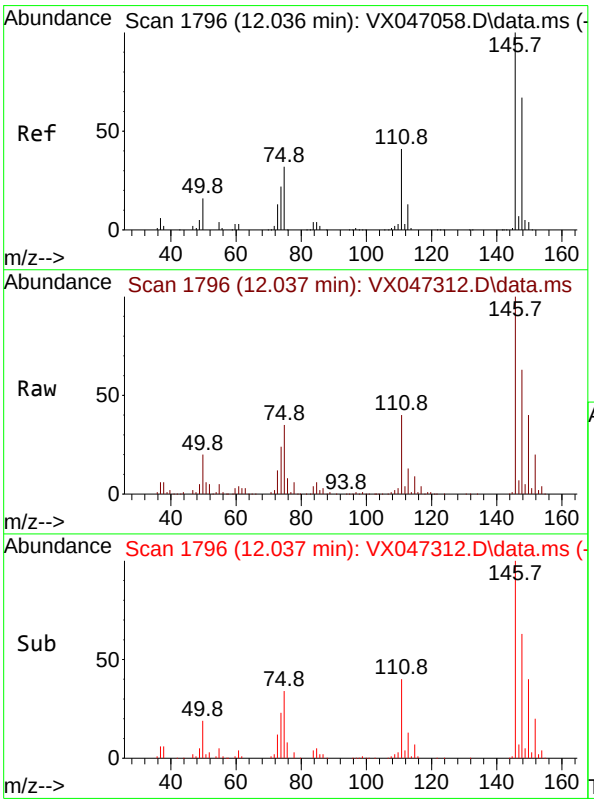
#87
1,3-Dichlorobenzene
Concen: 19.976 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:146 Resp: 119434

Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.0	63.0
148	63.6	32.0	96.0

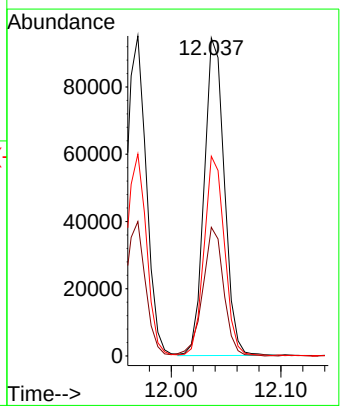


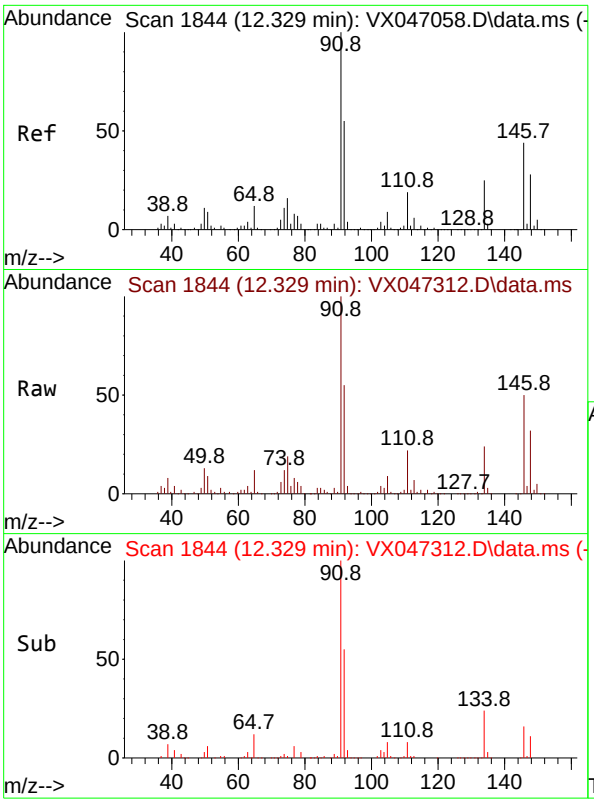


#88
1,4-Dichlorobenzene
Concen: 19.938 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:146 Resp: 120773

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.6	61.9
148	63.5	33.0	98.9



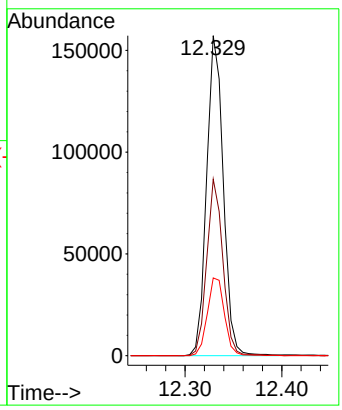


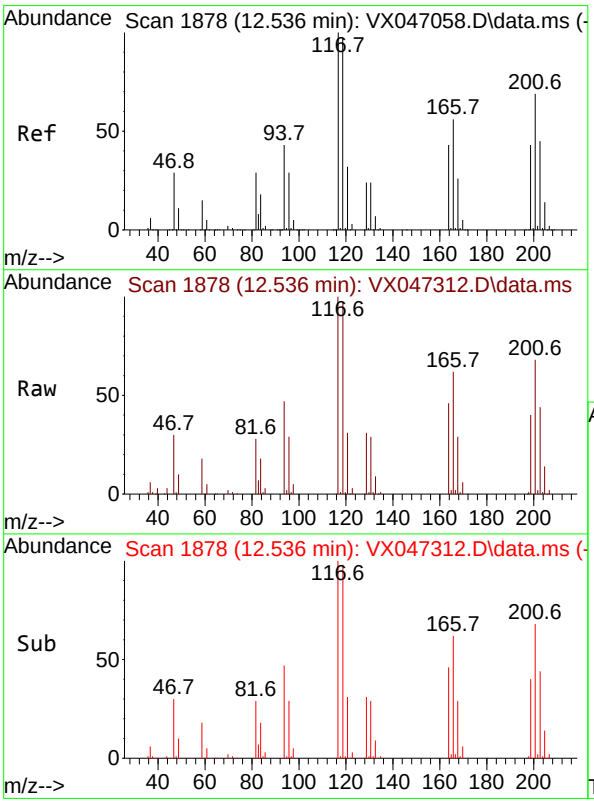
#89
n-Butylbenzene
Concen: 17.823 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion: 91 Resp: 188398

Ion	Ratio	Lower	Upper
91	100		
92	53.5	27.5	82.5
134	25.1	12.8	38.3

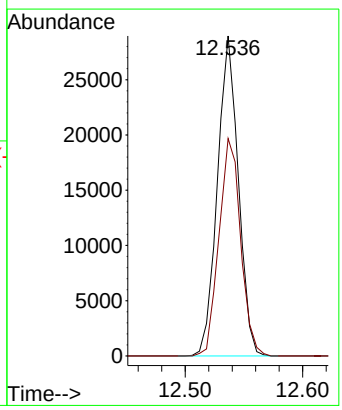


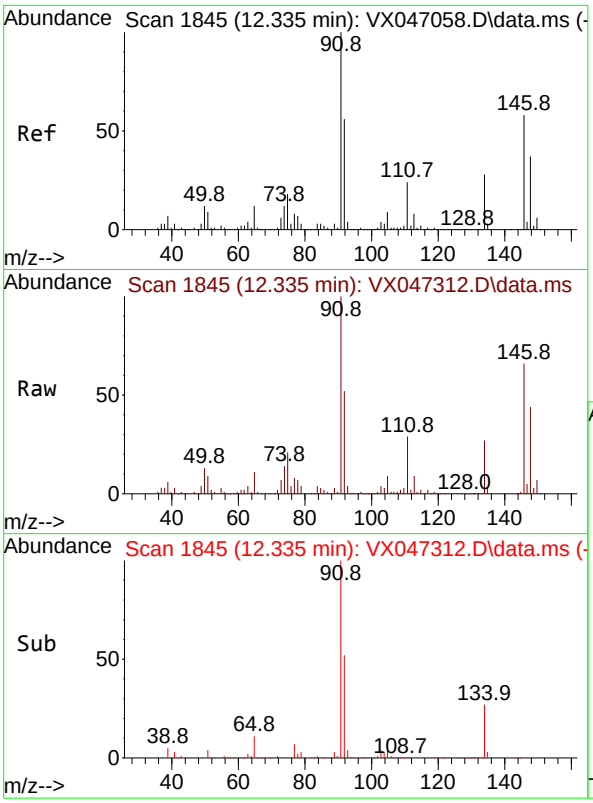


#90
Hexachloroethane
Concen: 17.786 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:117 Resp: 35864

Ion	Ratio	Lower	Upper
117	100		
201	70.3	34.8	104.5



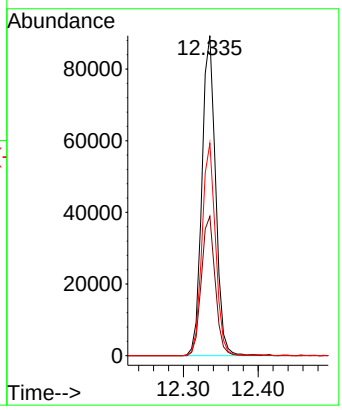


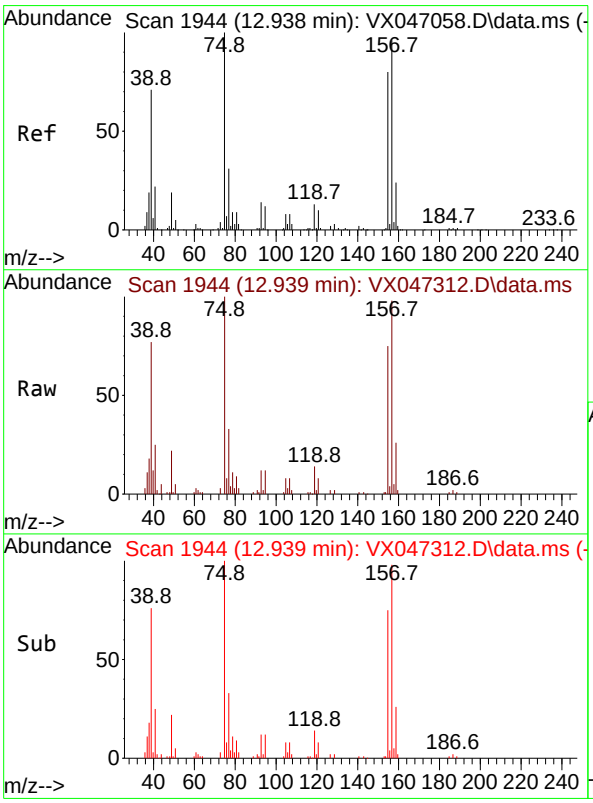
#91
1,2-Dichlorobenzene
Concen: 19.835 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:146 Resp: 113345

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.6	64.6
148	65.6	31.9	95.7

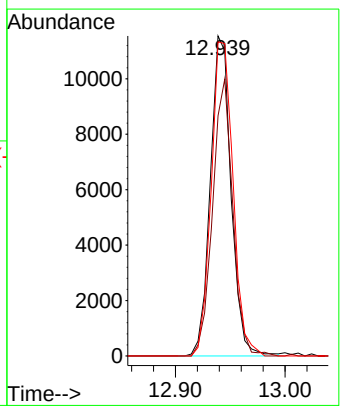


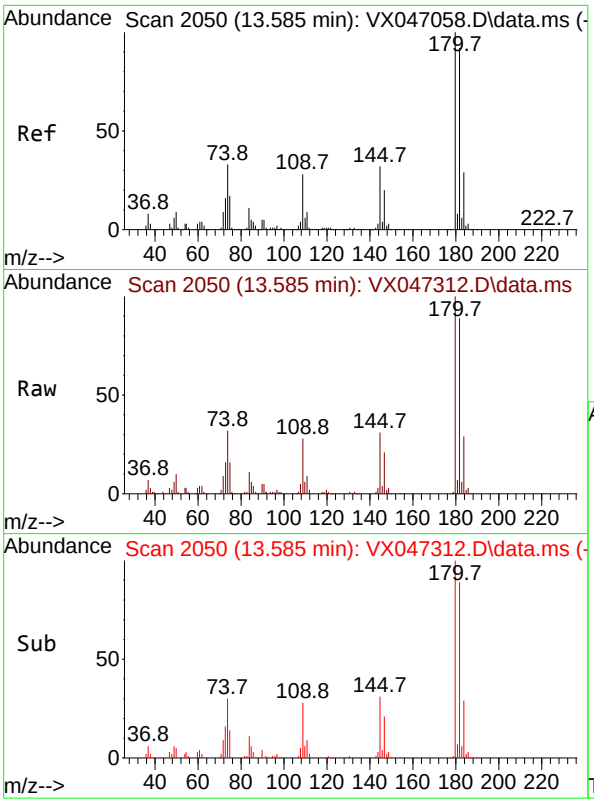


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.136 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion: 75 Resp: 15204

Ion	Ratio	Lower	Upper
75	100		
155	84.2	41.3	124.1
157	103.1	52.8	158.3



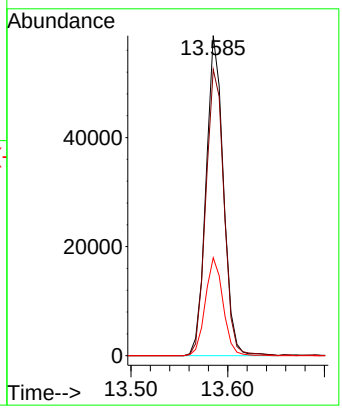


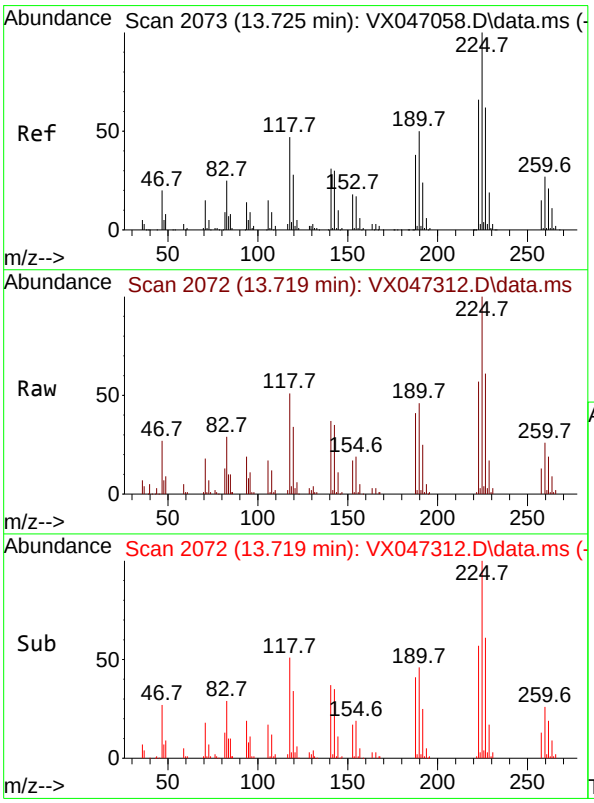
#93
1,2,4-Trichlorobenzene
Concen: 19.391 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:180 Resp: 73212

Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.3	141.8
145	31.2	16.4	49.1

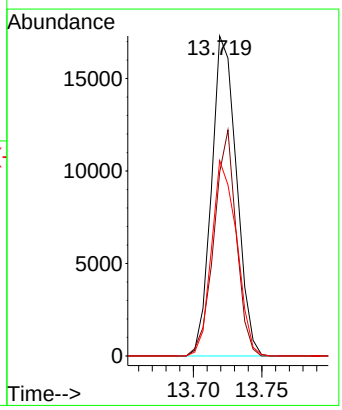


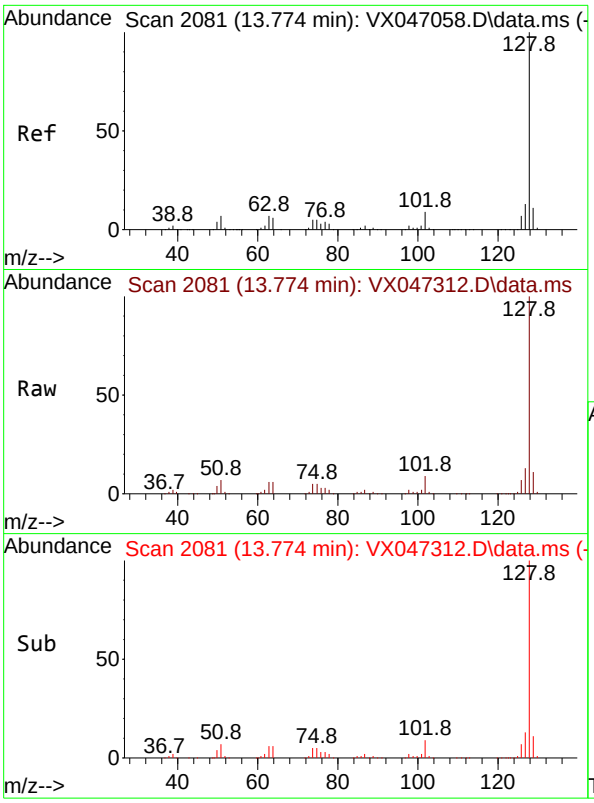


#94
Hexachlorobutadiene
Concen: 17.048 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:225 Resp: 21890

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.6	95.0
227	61.5	32.9	98.6



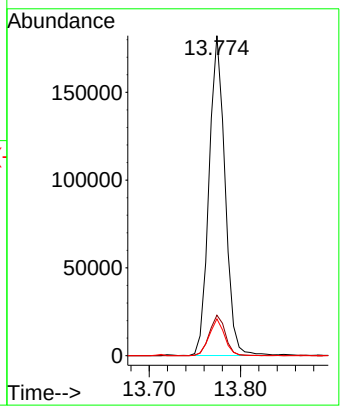


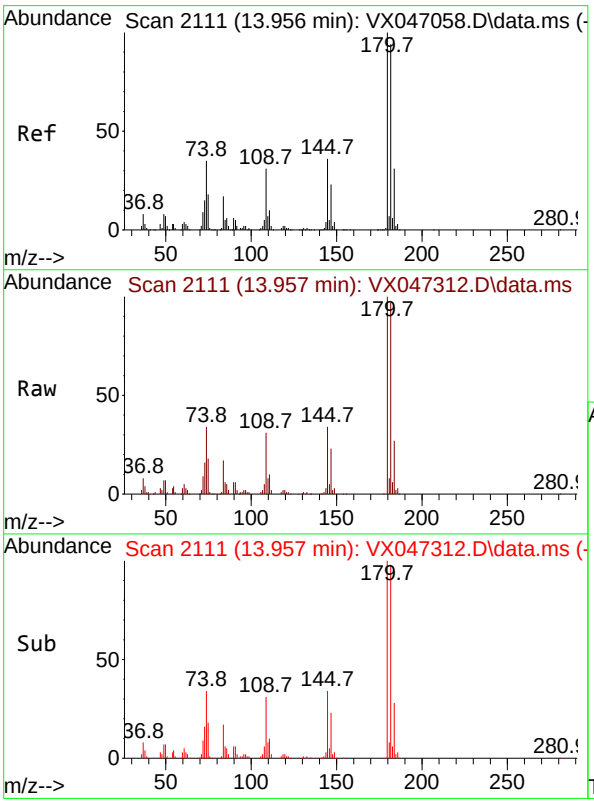
#95
Naphthalene
Concen: 19.981 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.001 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX0813WBS01

Tgt Ion:128 Resp: 221152

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	11.1	8.6	13.0

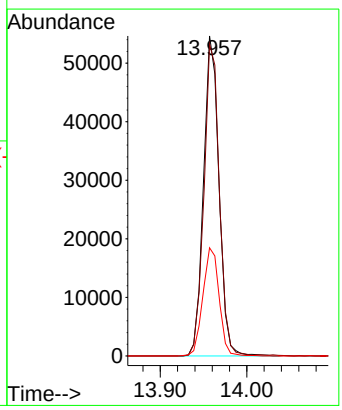




#96
1,2,3-Trichlorobenzene
Concen: 18.614 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047312.D
Acq: 13 Aug 2025 11:24

Tgt Ion:180 Resp: 67706

Ion	Ratio	Lower	Upper
180	100		
182	97.6	46.9	140.6
145	35.6	17.3	52.0



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	205236	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	362249	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	328856	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	162794	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	143603	56.170	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 112.340%			
35) Dibromofluoromethane	5.403	113	126007	56.338	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 112.680%			
50) Toluene-d8	8.653	98	350581	48.401	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.800%			
62) 4-Bromofluorobenzene	11.079	95	169988	54.458	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.920%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	134761	49.434	ug/l	97
3) Chloromethane	1.312	50	124400	46.133	ug/l	98
4) Vinyl Chloride	1.392	62	150084	51.777	ug/l	100
5) Bromomethane	1.623	94	59720	37.927	ug/l	94
6) Chloroethane	1.703	64	91875	48.258	ug/l	95
7) Trichlorofluoromethane	1.904	101	214893	49.717	ug/l	97
8) Diethyl Ether	2.148	74	84668	55.556	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.349	101	123887	47.574	ug/l	99
10) Methyl Iodide	2.471	142	204203	76.942	ug/l	100
11) Tert butyl alcohol	2.971	59	87953	296.193	ug/l	100
12) 1,1-Dichloroethene	2.337	96	130702	50.675	ug/l	99
13) Acrolein	2.251	56	131419	238.735	ug/l	100
14) Allyl chloride	2.684	41	227169	48.725	ug/l	99
15) Acrylonitrile	3.080	53	370745	304.062	ug/l	100
16) Acetone	2.392	43	295467	288.492	ug/l	99
17) Carbon Disulfide	2.532	76	357217	47.874	ug/l	100
18) Methyl Acetate	2.721	43	187953	69.057	ug/l	98
19) Methyl tert-butyl Ether	3.129	73	449689	57.288	ug/l	99
20) Methylene Chloride	2.806	84	155553	55.207	ug/l	98
21) trans-1,2-Dichloroethene	3.111	96	139920	53.013	ug/l	98
22) Diisopropyl ether	3.775	45	498100	55.568	ug/l	96
23) Vinyl Acetate	3.739	43	1952315	271.550	ug/l	100
24) 1,1-Dichloroethane	3.629	63	269276	54.022	ug/l	99
25) 2-Butanone	4.574	43	427466	286.642	ug/l	98
26) 2,2-Dichloropropane	4.495	77	119393	30.943	ug/l	97
27) cis-1,2-Dichloroethene	4.507	96	171179	54.770	ug/l	93
28) Bromochloromethane	4.915	49	130854	57.062	ug/l	98
29) Tetrahydrofuran	5.025	42	282886	293.999	ug/l	98
30) Chloroform	5.111	83	275564	54.310	ug/l	98
31) Cyclohexane	5.489	56	219791	45.987	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	228701	51.894	ug/l	99
36) 1,1-Dichloropropene	5.708	75	182035	47.746	ug/l	99
37) Ethyl Acetate	4.733	43	216655	61.671	ug/l	97
38) Carbon Tetrachloride	5.690	117	197096	48.436	ug/l	99
39) Methylcyclohexane	7.391	83	204641	42.990	ug/l	94
40) Benzene	6.049	78	576594	52.258	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	98648	53.704	ug/l		93
42) 1,2-Dichloroethane	6.098	62	211626	54.449	ug/l		99
43) Isopropyl Acetate	6.348	43	321876	58.771	ug/l		100
44) Trichloroethene	7.135	130	143842	50.839	ug/l		99
45) 1,2-Dichloropropane	7.439	63	148168	53.617	ug/l		97
46) Dibromomethane	7.586	93	109285	56.394	ug/l		99
47) Bromodichloromethane	7.824	83	221607	53.726	ug/l		96
48) Methyl methacrylate	7.695	41	166691	55.869	ug/l		99
49) 1,4-Dioxane	7.677	88	37215	1096.675	ug/l		99
51) 4-Methyl-2-Pentanone	8.573	43	971754	298.510	ug/l		99
52) Toluene	8.720	92	358851	52.894	ug/l		99
53) t-1,3-Dichloropropene	8.982	75	190007	48.781	ug/l		98
54) cis-1,3-Dichloropropene	8.372	75	208919	49.007	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	143591	56.437	ug/l		98
56) Ethyl methacrylate	9.116	69	226969	60.258	ug/l		98
57) 1,3-Dichloropropane	9.311	76	241487	54.612	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	520399	248.283	ug/l		100
59) 2-Hexanone	9.433	43	682075	317.134	ug/l		100
60) Dibromochloromethane	9.524	129	166965	55.953	ug/l		99
61) 1,2-Dibromoethane	9.610	107	146279	54.984	ug/l		97
64) Tetrachloroethene	9.274	164	144828	61.091	ug/l		97
65) Chlorobenzene	10.079	112	398565	51.735	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.165	131	138574	53.426	ug/l		99
67) Ethyl Benzene	10.195	91	682645	50.679	ug/l		99
68) m/p-Xylenes	10.299	106	510341	101.242	ug/l		99
69) o-Xylene	10.640	106	250637	52.266	ug/l		99
70) Styrene	10.652	104	437969	53.262	ug/l		99
71) Bromoform	10.799	173	110290	55.976	ug/l	#	99
73) Isopropylbenzene	10.963	105	638868	49.743	ug/l		100
74) N-amyl acetate	10.841	43	276966	53.447	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	204903	55.852	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	185742	61.642	ug/l		84
77) Bromobenzene	11.195	156	162977	52.905	ug/l		98
78) n-propylbenzene	11.305	91	759407	49.480	ug/l		100
79) 2-Chlorotoluene	11.366	91	464143	50.591	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	535382	50.457	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	23329	19.947	ug/l		98
82) 4-Chlorotoluene	11.451	91	547556	51.133	ug/l		99
83) tert-Butylbenzene	11.713	119	497590	46.723	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	541887	51.202	ug/l		100
85) sec-Butylbenzene	11.890	105	642655	48.296	ug/l		99
86) p-Isopropyltoluene	12.006	119	539743	48.913	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	300174	51.283	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	302162	50.953	ug/l		98
89) n-Butylbenzene	12.329	91	491481	47.494	ug/l		98
90) Hexachloroethane	12.536	117	94390	47.815	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	289391	51.730	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	41702	59.218	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	186188	50.374	ug/l		99
94) Hexachlorobutadiene	13.725	225	58740	46.730	ug/l		98
95) Naphthalene	13.774	128	624659	57.649	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	183699	51.589	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

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

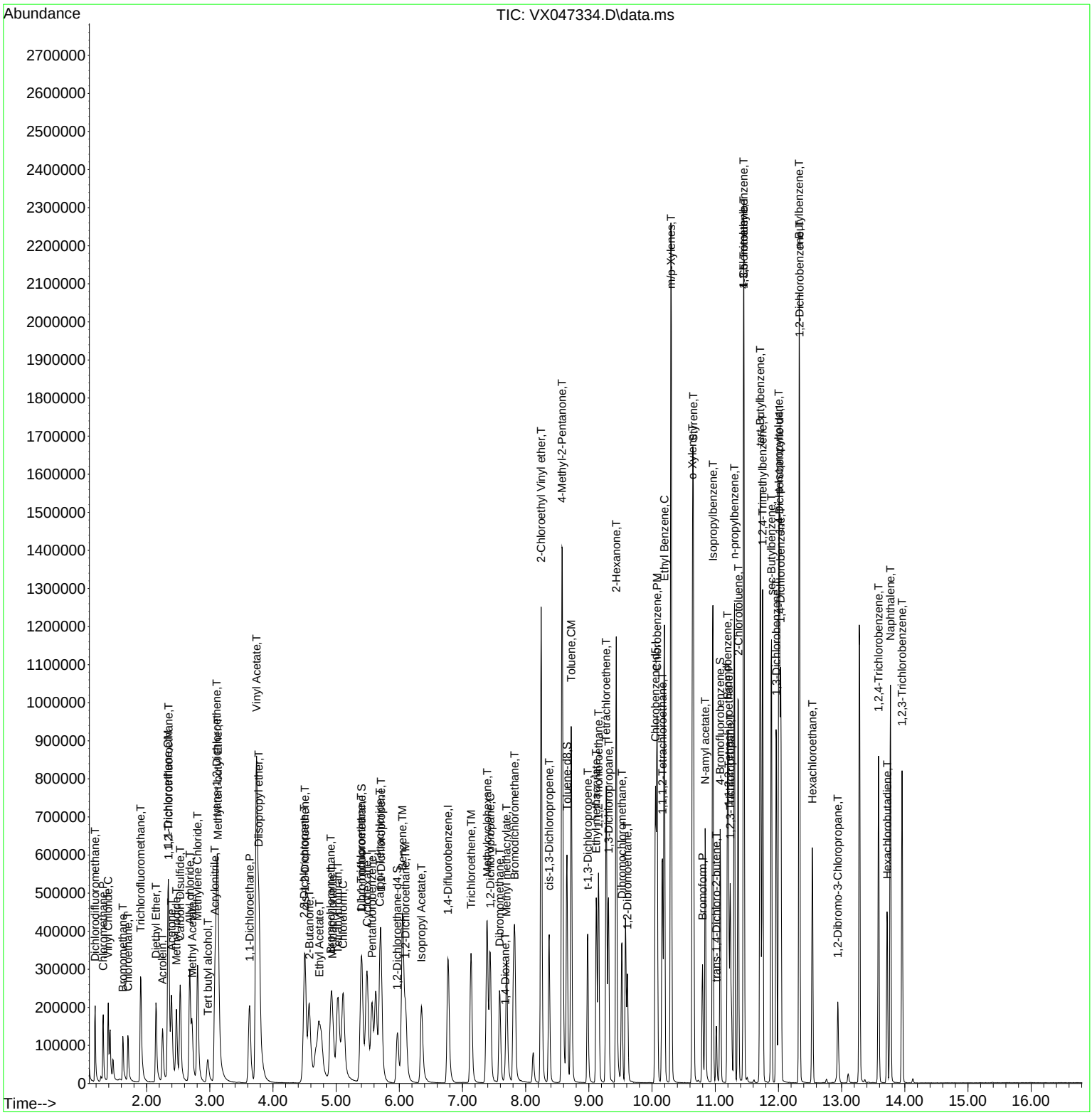
(#) = qualifier out of range (m) = manual integration (+) = signals summed

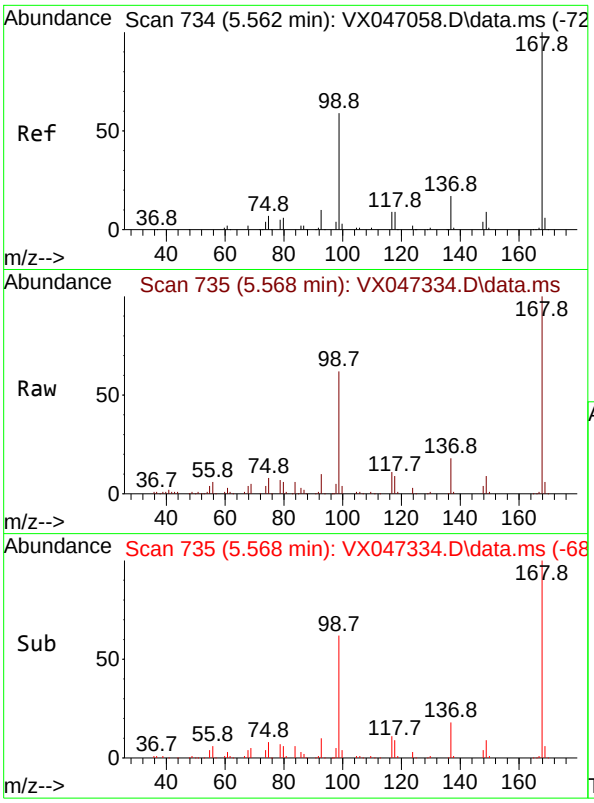
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
Data File : VX047334.D
Acq On : 13 Aug 2025 19:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 14 05:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration



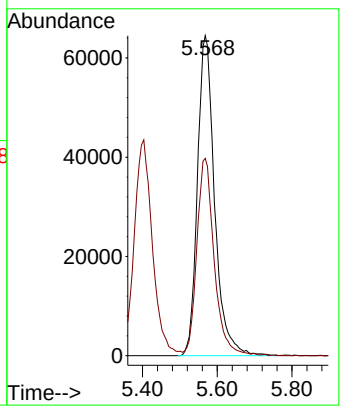


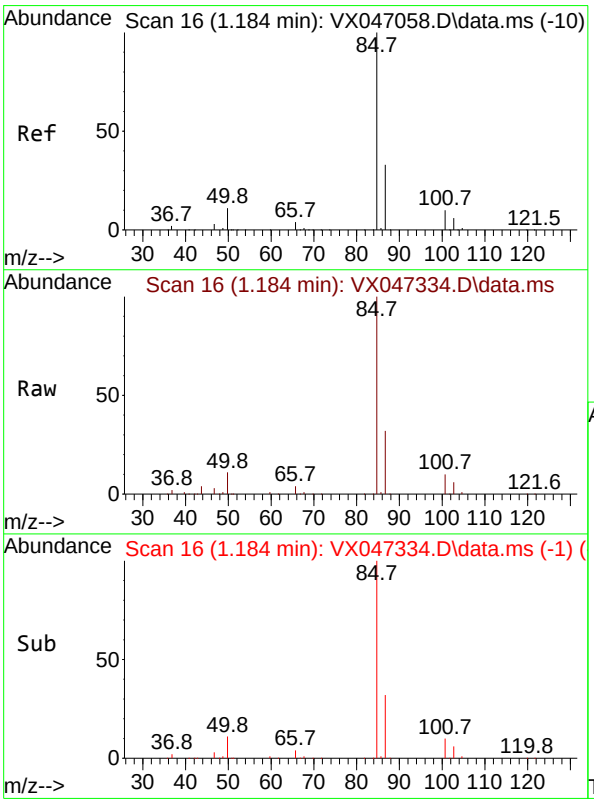
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 205236

Ion	Ratio	Lower	Upper
168	100		
99	61.5	48.0	72.0

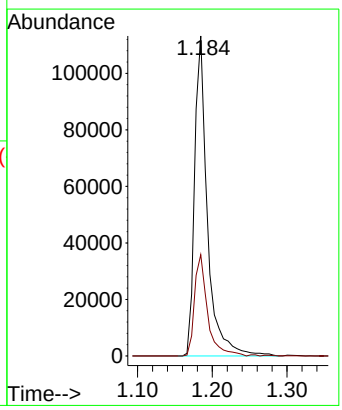


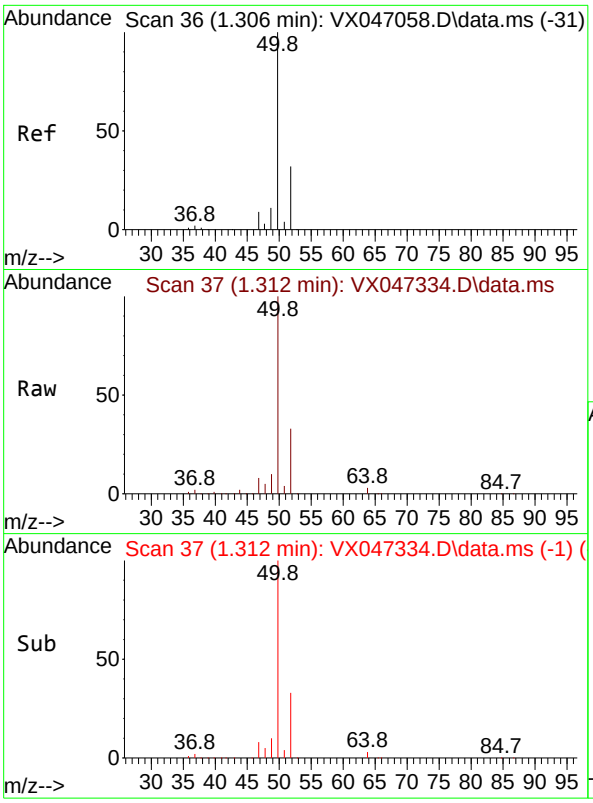


#2
Dichlorodifluoromethane
Concen: 49.434 ug/l
RT: 1.184 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 85 Resp: 134761

Ion	Ratio	Lower	Upper
85	100		
87	31.6	16.6	49.8



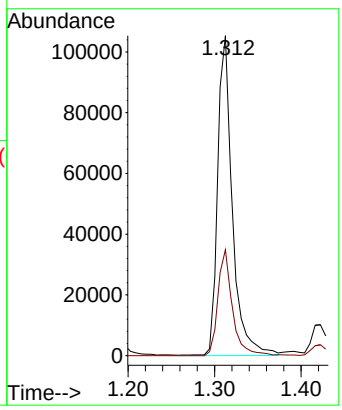


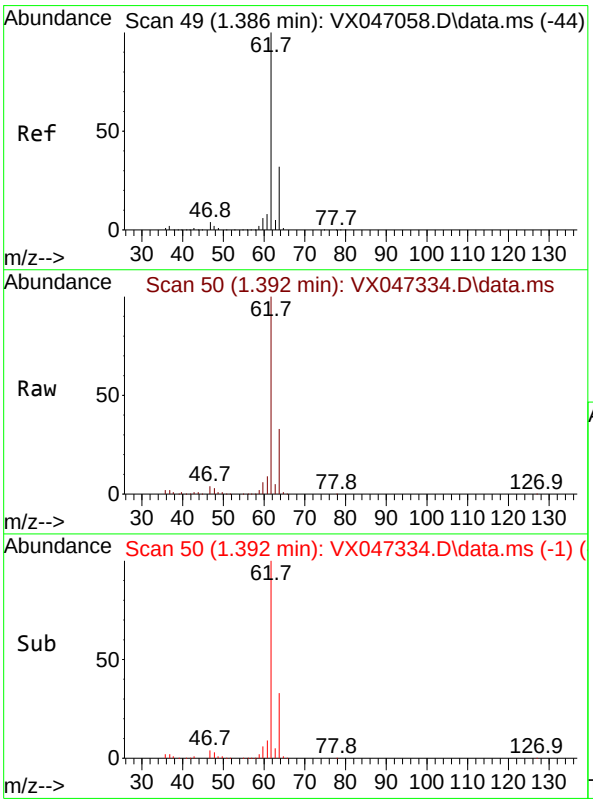
#3
Chloromethane
Concen: 46.133 ug/l
RT: 1.312 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 124400

Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.4	38.2

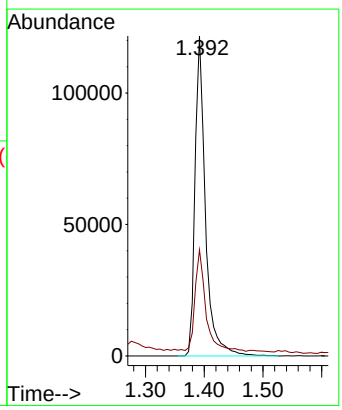


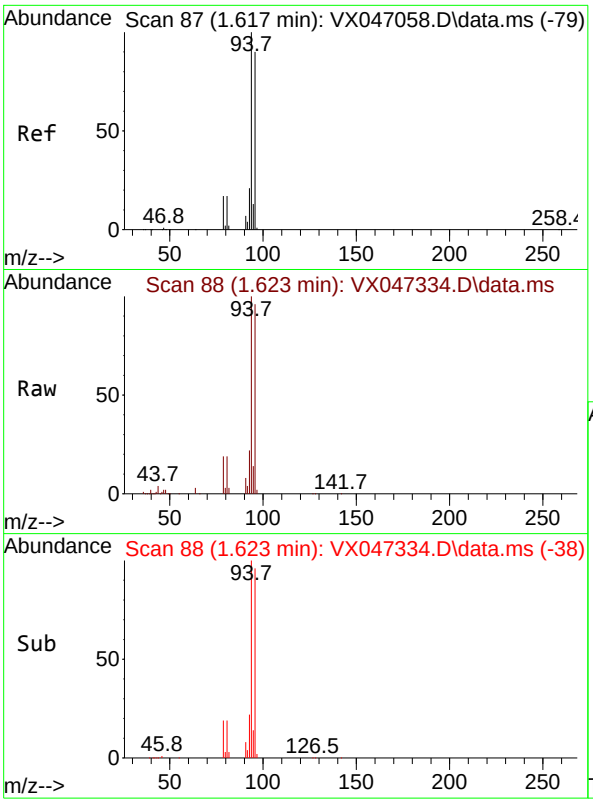


#4
Vinyl Chloride
Concen: 51.777 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 62 Resp: 150084

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.2	37.8



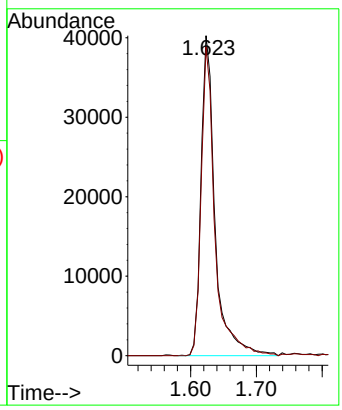


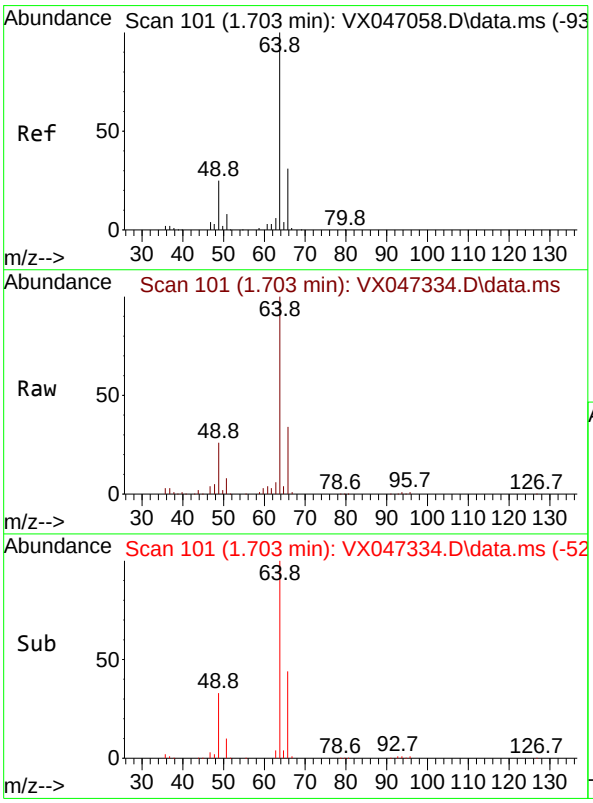
#5
Bromomethane
Concen: 37.927 ug/l
RT: 1.623 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 59720

Ion	Ratio	Lower	Upper
94	100		
96	96.5	72.3	108.5

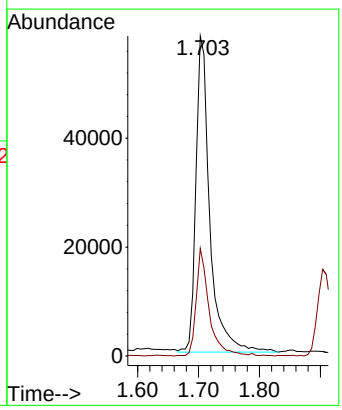


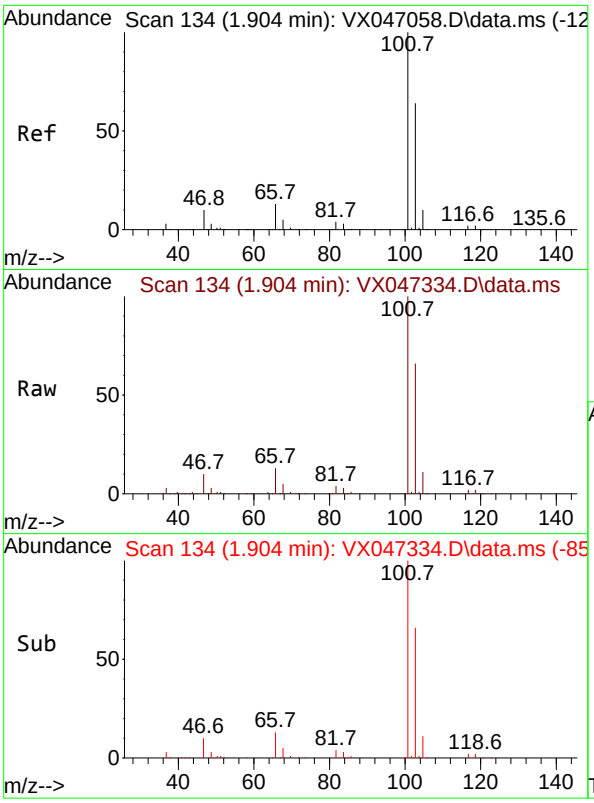


#6
Chloroethane
Concen: 48.258 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 64 Resp: 91875

Ion	Ratio	Lower	Upper
64	100		
66	33.9	25.0	37.6



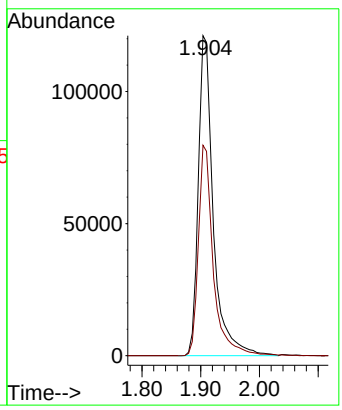


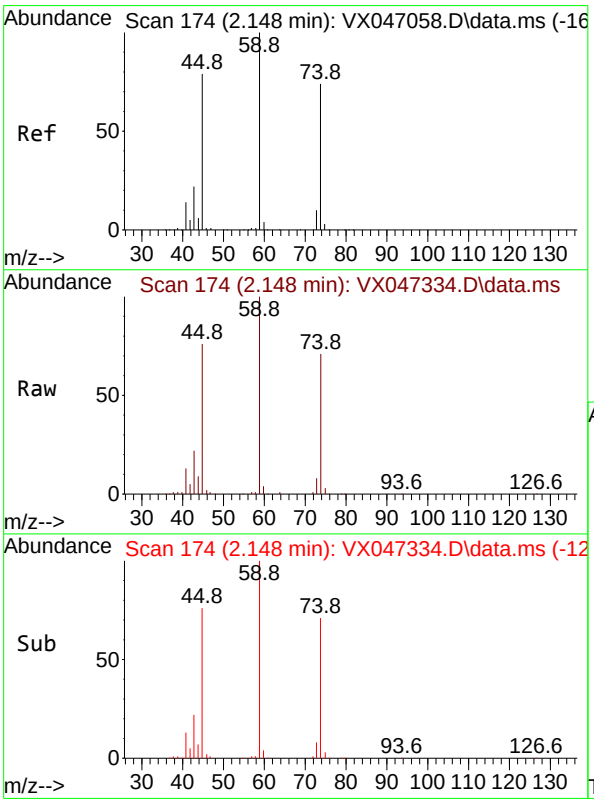
#7
Trichlorofluoromethane
Concen: 49.717 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 214893

Ion	Ratio	Lower	Upper
101	100		
103	65.8	50.9	76.3

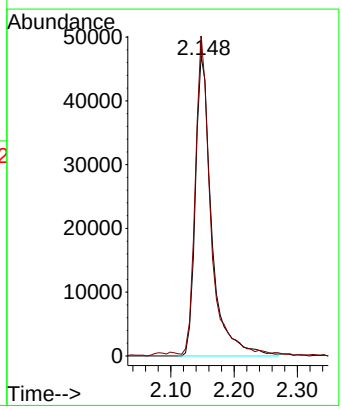


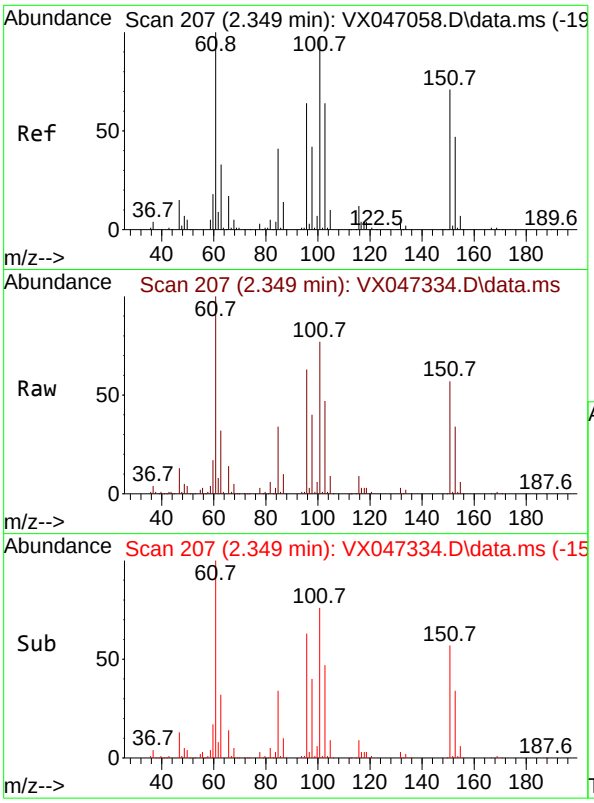


#8
Diethyl Ether
Concen: 55.556 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 74 Resp: 84668

Ion	Ratio	Lower	Upper
74	100		
45	100.3	53.0	159.0



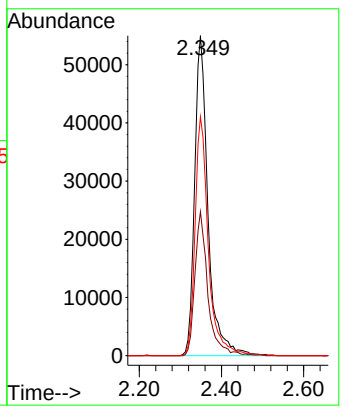


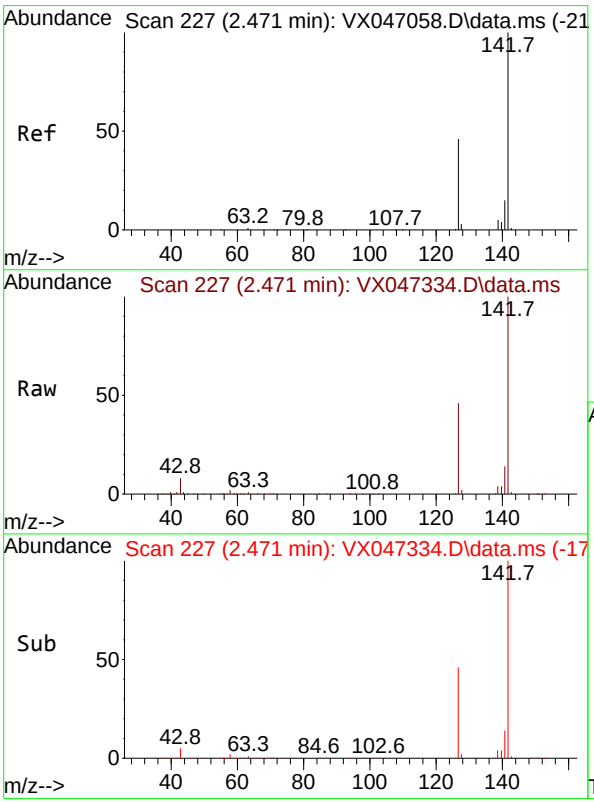
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.574 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 123887

Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.4	53.0
151	74.6	59.2	88.8

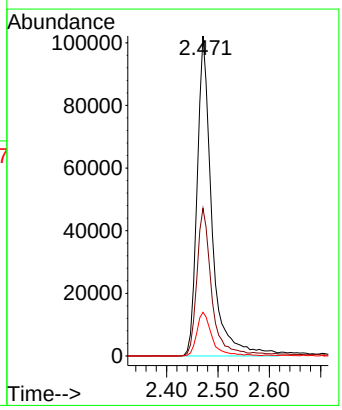


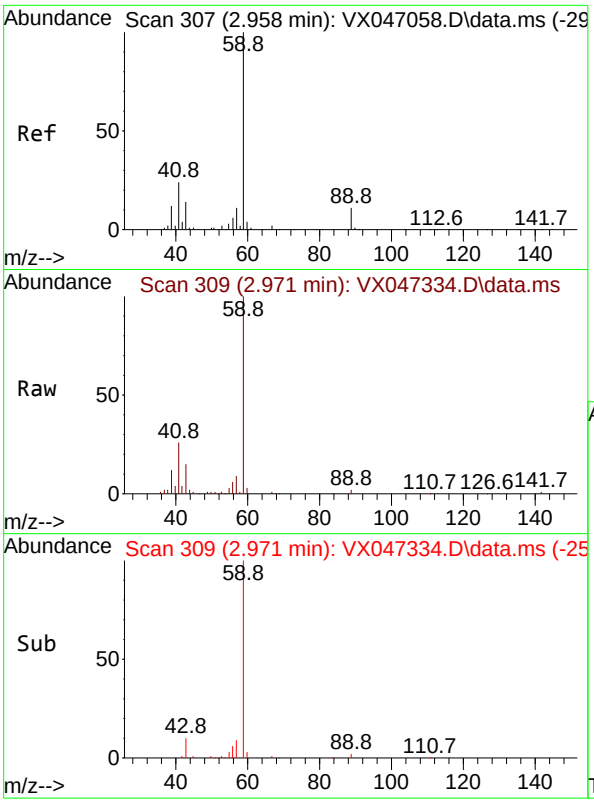


#10
Methyl Iodide
Concen: 76.942 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:142 Resp: 204203

Ion	Ratio	Lower	Upper
142	100		
127	45.6	36.6	54.8
141	14.1	10.9	16.3



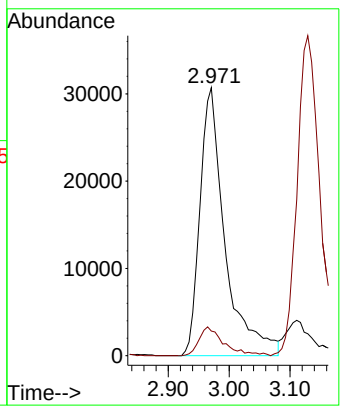


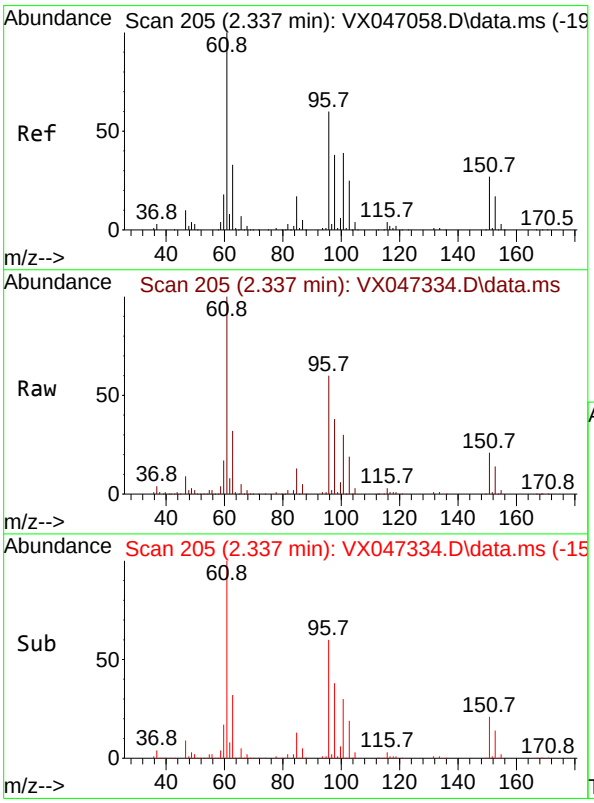
#11
Tert butyl alcohol
Concen: 296.193 ug/l
RT: 2.971 min Scan# 3
Delta R.T. 0.013 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 87953

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.5	12.7

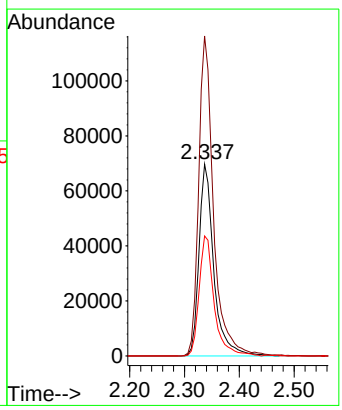


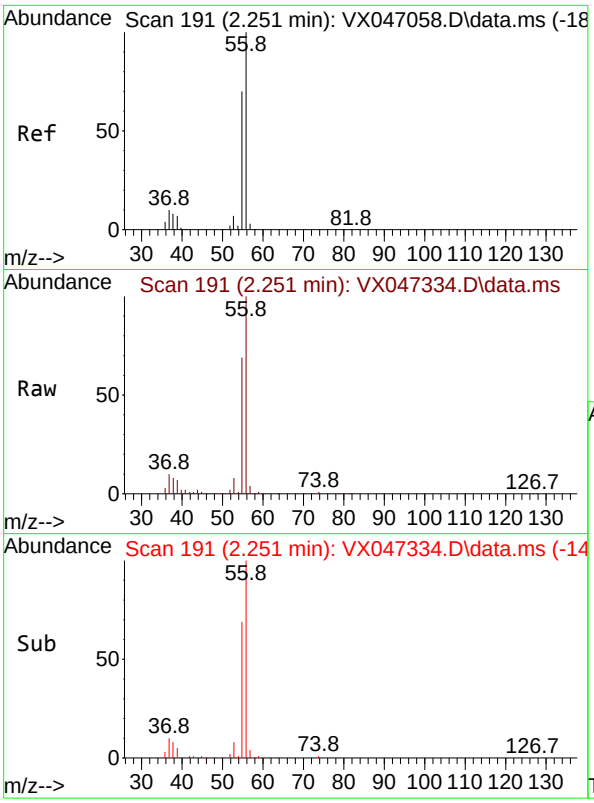


#12
1,1-Dichloroethene
Concen: 50.675 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 96 Resp: 130702

Ion	Ratio	Lower	Upper
96	100		
61	166.8	132.6	198.8
98	62.6	50.2	75.4



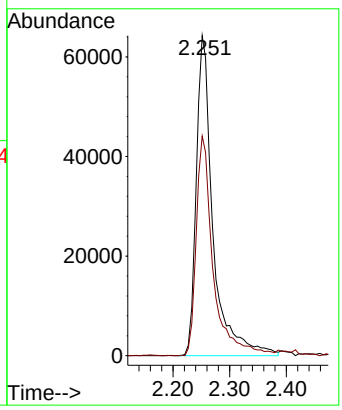


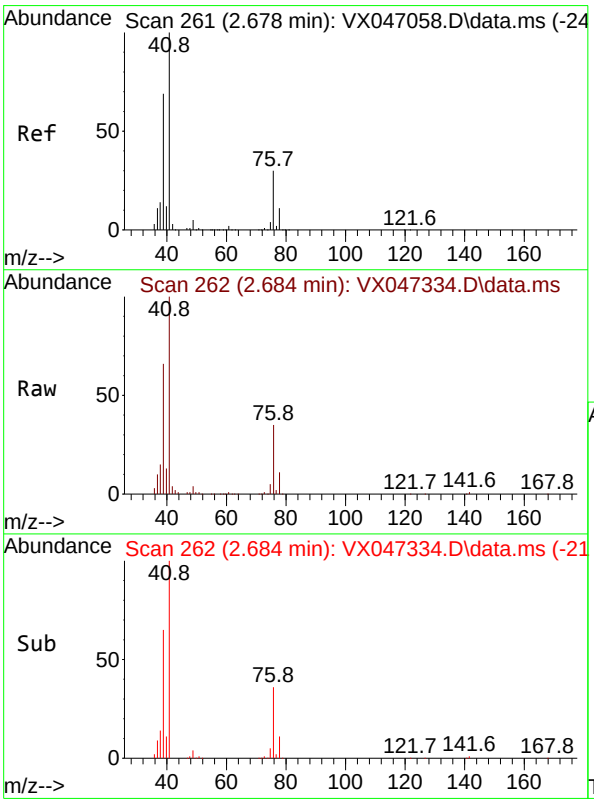
#13
Acrolein
Concen: 238.735 ug/l
RT: 2.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 131419

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.7	83.5

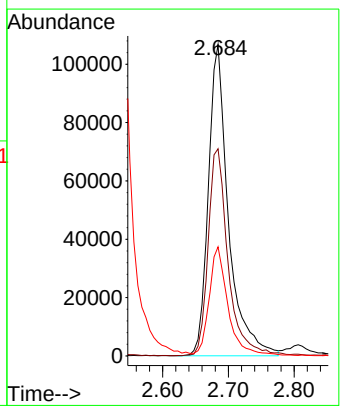


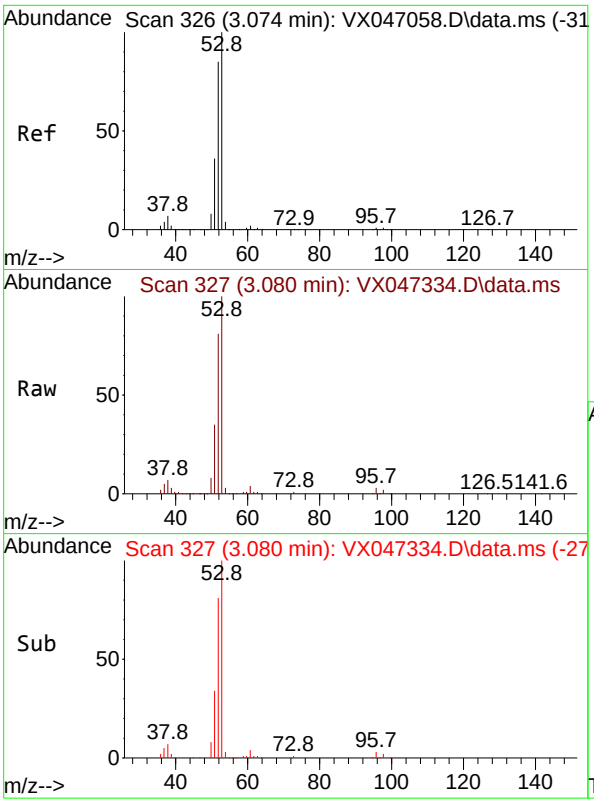


#14
Allyl chloride
Concen: 48.725 ug/l
RT: 2.684 min Scan# 262
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 41 Resp: 227169

Ion	Ratio	Lower	Upper
41	100		
39	65.9	52.6	78.8
76	32.7	25.7	38.5



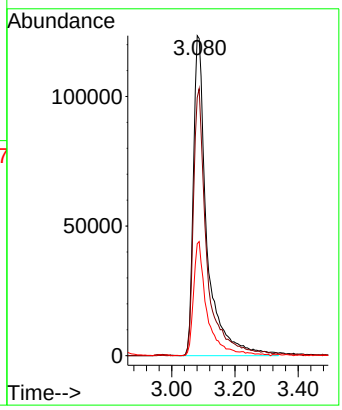


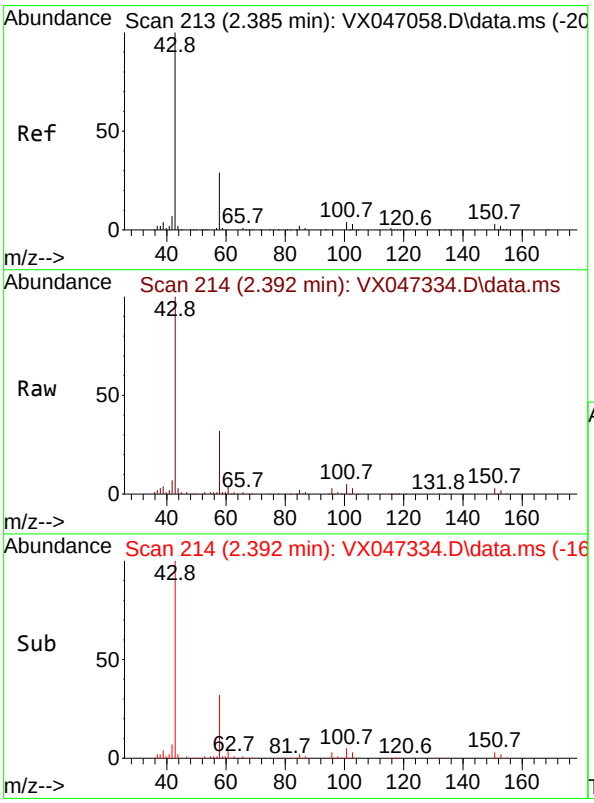
#15
Acrylonitrile
Concen: 304.062 ug/l
RT: 3.080 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 370745

Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.7	98.5
51	35.7	28.8	43.2

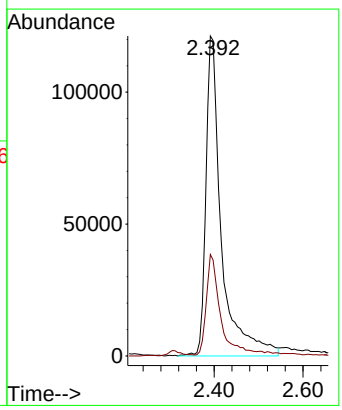


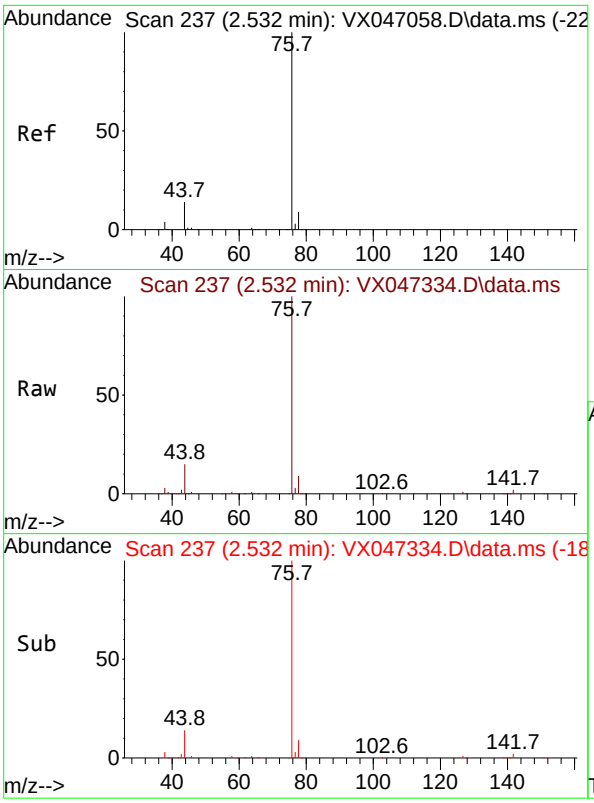


#16
Acetone
Concen: 288.492 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 43 Resp: 295467

Ion	Ratio	Lower	Upper
43	100		
58	30.8	24.0	36.0



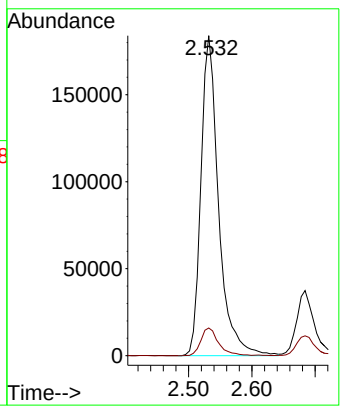


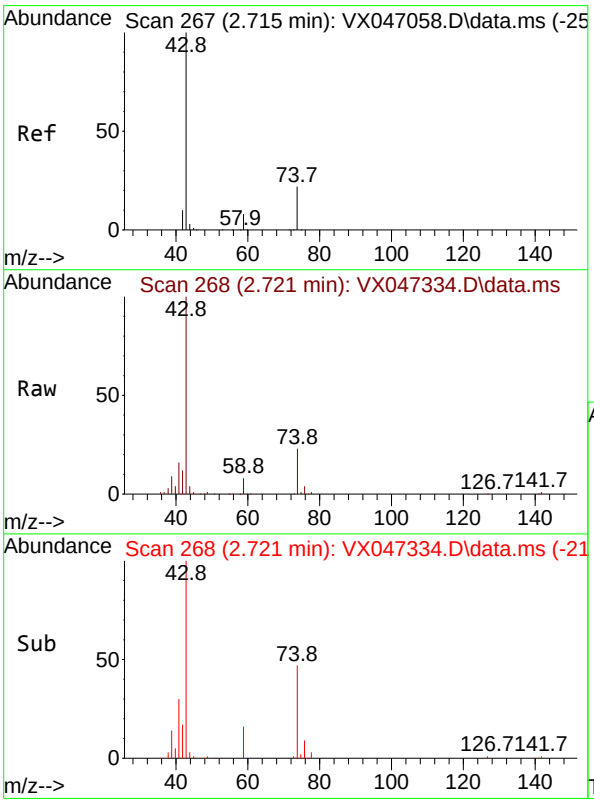
#17
Carbon Disulfide
Concen: 47.874 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 357217

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.0	10.4

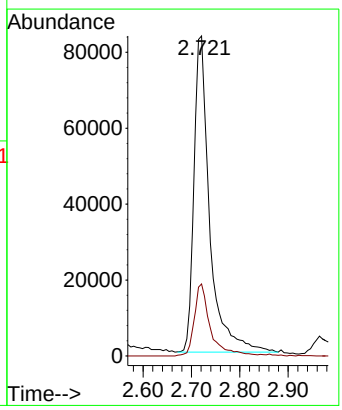


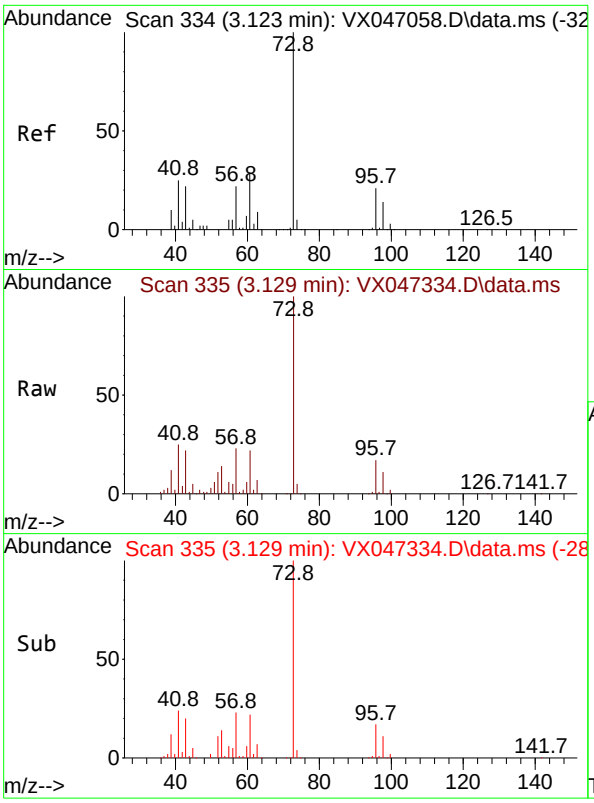


#18
Methyl Acetate
Concen: 69.057 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 43 Resp: 187953

Ion	Ratio	Lower	Upper
43	100		
74	23.2	17.7	26.5



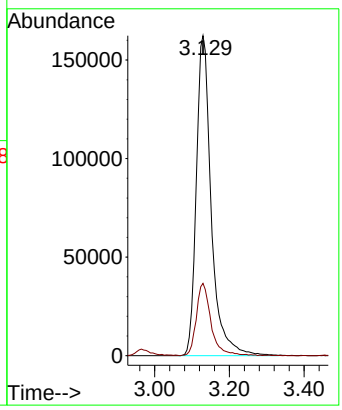


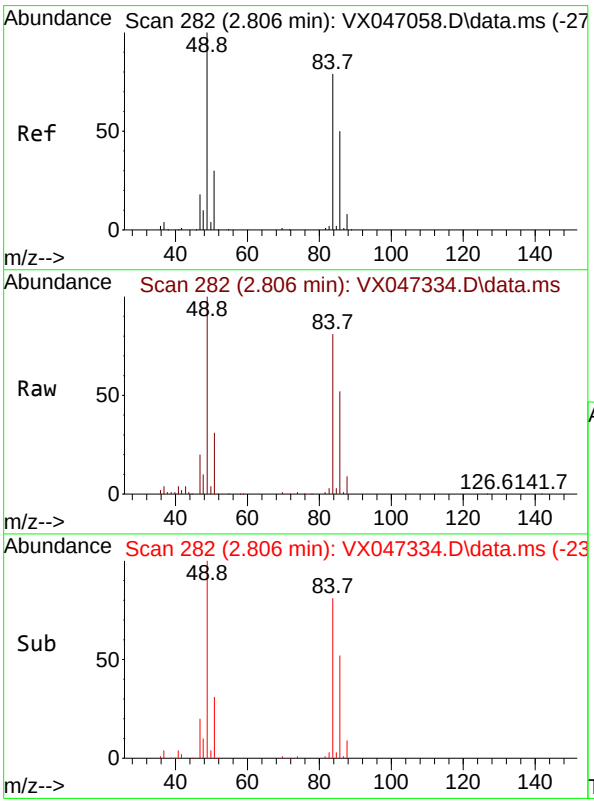
#19
Methyl tert-butyl Ether
Concen: 57.288 ug/l
RT: 3.129 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 449689

Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.7	26.5

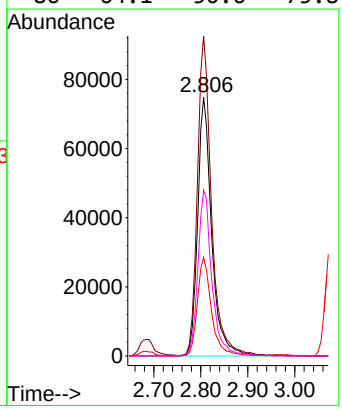


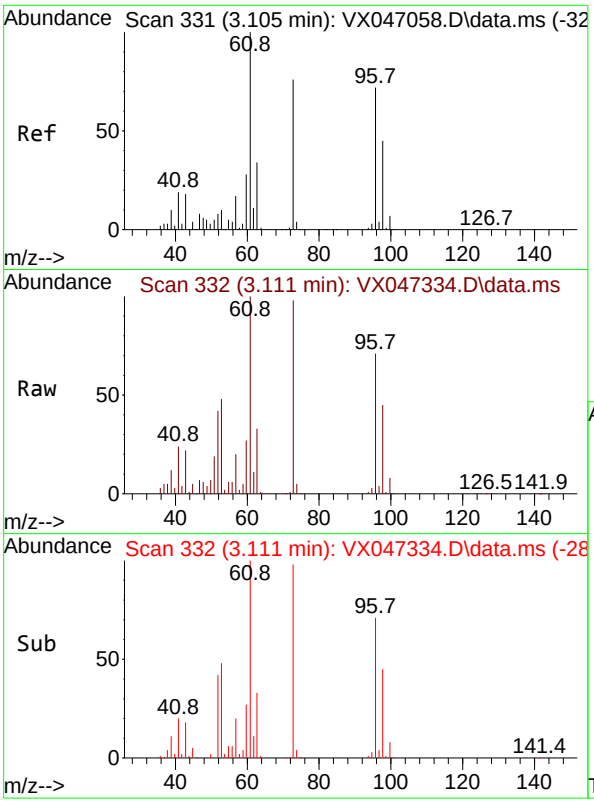


#20
Methylene Chloride
Concen: 55.207 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 84 Resp: 155553

Ion	Ratio	Lower	Upper
84	100		
49	123.5	101.6	152.4
51	37.9	30.3	45.5
86	64.1	50.6	75.8



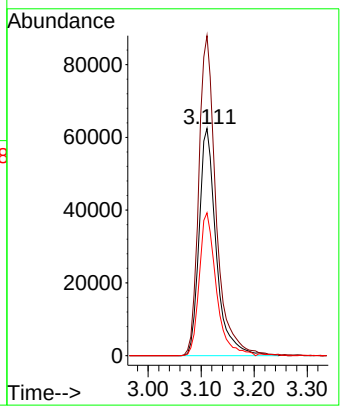


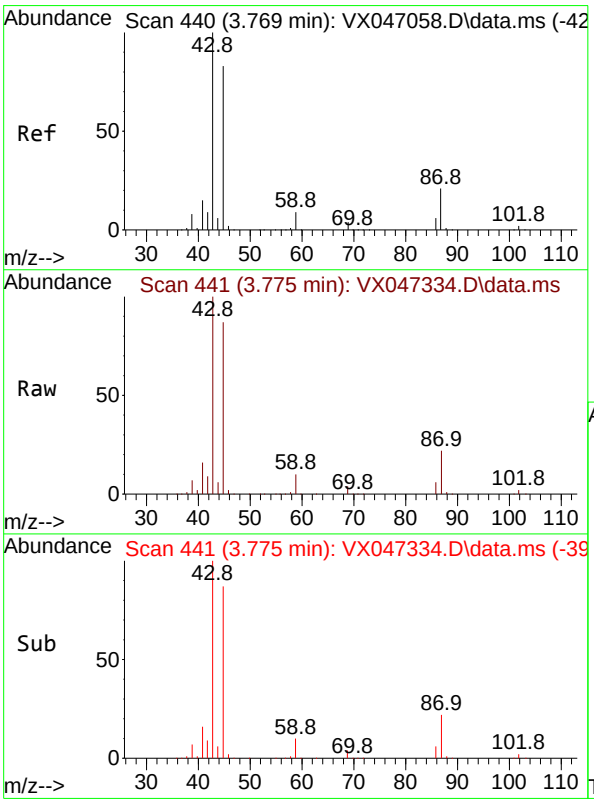
#21
trans-1,2-Dichloroethene
Concen: 53.013 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 139920

Ion	Ratio	Lower	Upper
96	100		
61	140.8	111.1	166.7
98	64.7	49.6	74.4

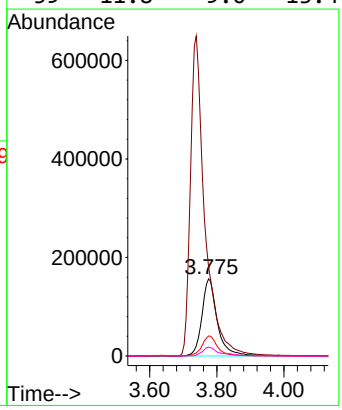


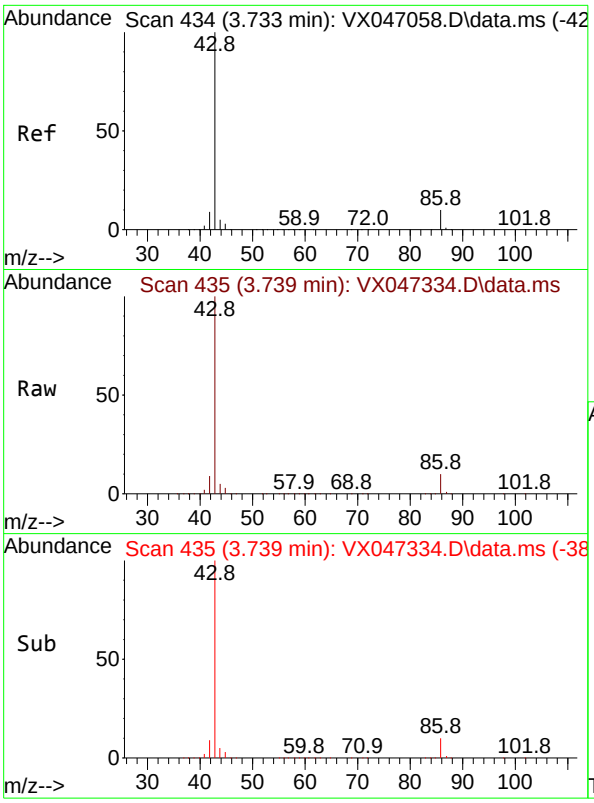


#22
Diisopropyl ether
Concen: 55.568 ug/l
RT: 3.775 min Scan# 441
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 45 Resp: 498100

Ion	Ratio	Lower	Upper
45	100		
43	115.2	96.8	145.2
87	25.9	20.5	30.7
59	11.8	9.0	13.4



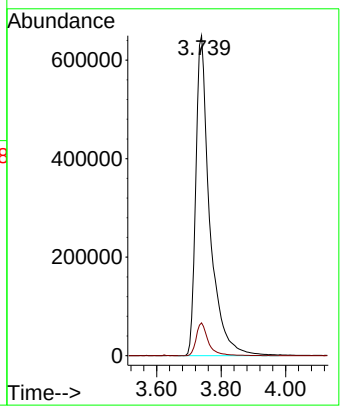


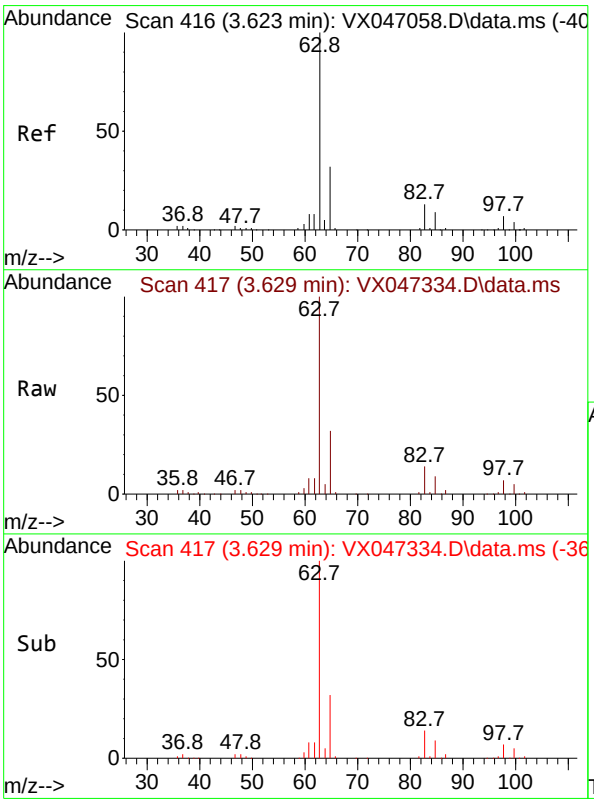
#23
Vinyl Acetate
Concen: 271.550 ug/l
RT: 3.739 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1952315

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.1	12.1

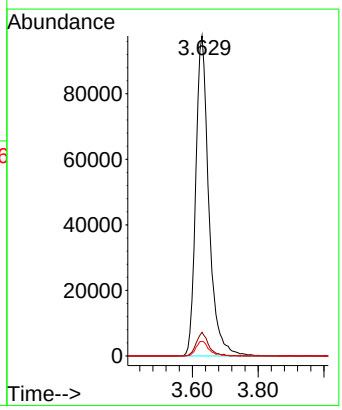


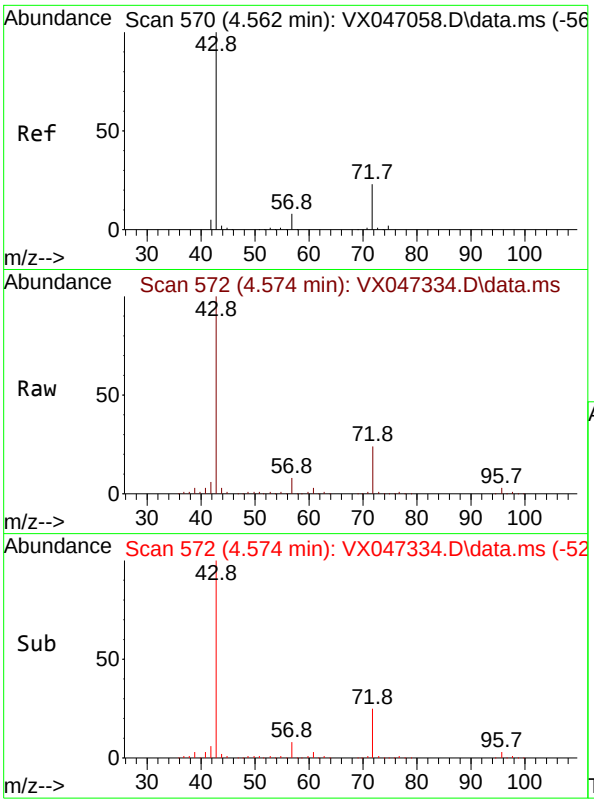


#24
1,1-Dichloroethane
Concen: 54.022 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 63 Resp: 269276

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	4.7	2.3	6.8



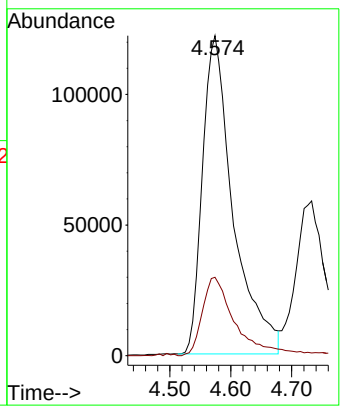


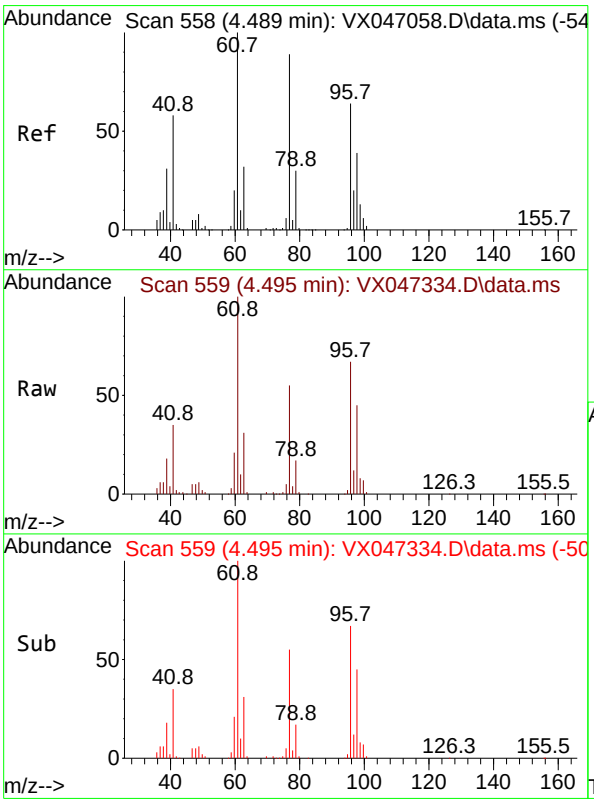
#25
2-Butanone
Concen: 286.642 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 427466

Ion	Ratio	Lower	Upper
43	100		
72	24.6	18.8	28.2

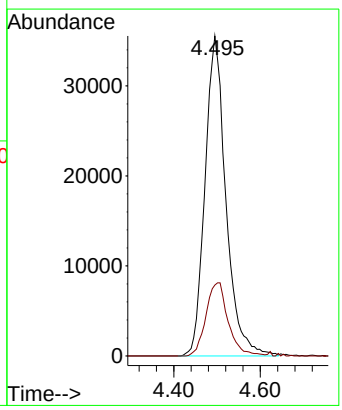


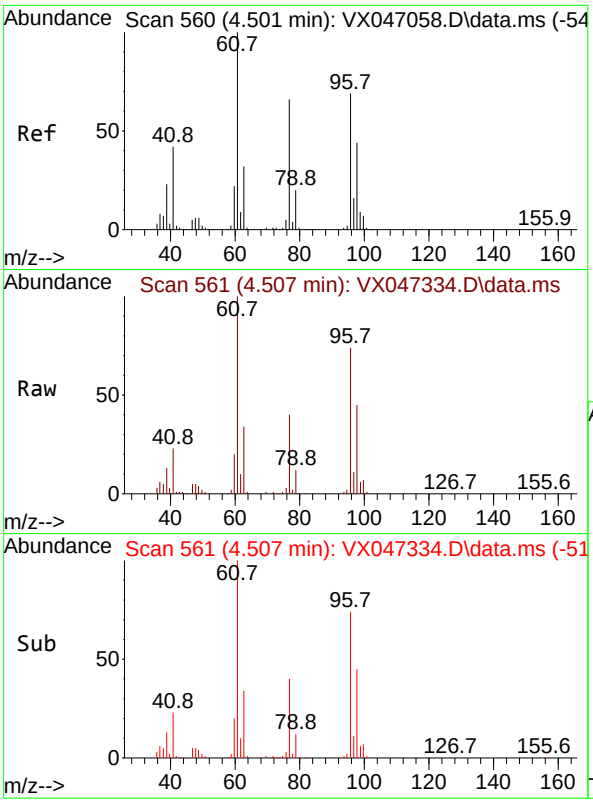


#26
2,2-Dichloropropane
Concen: 30.943 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 77 Resp: 119393

Ion	Ratio	Lower	Upper
77	100		
97	24.3	11.4	34.1



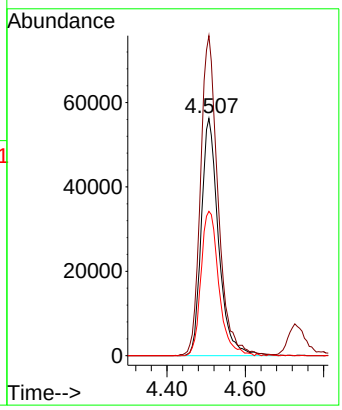


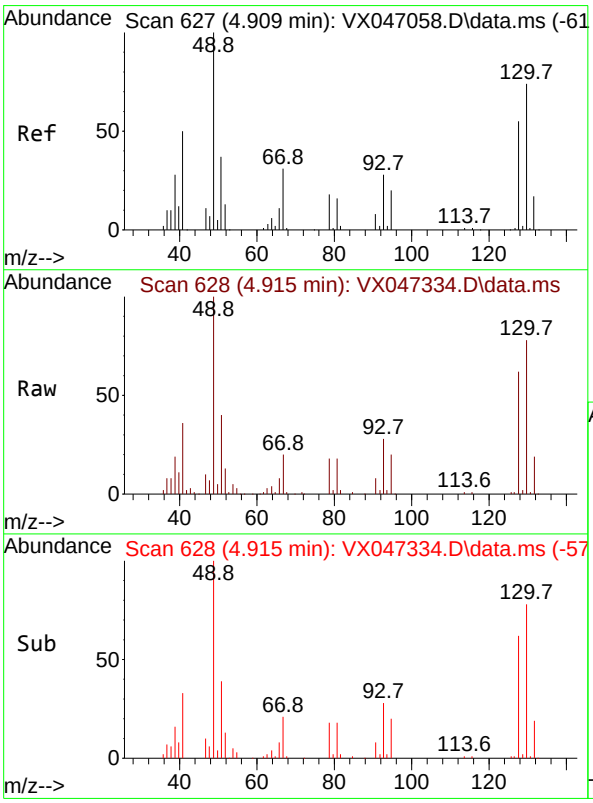
#27
cis-1,2-Dichloroethene
Concen: 54.770 ug/l
RT: 4.507 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 171179

Ion	Ratio	Lower	Upper
96	100		
61	137.8	0.0	298.6
98	63.3	0.0	128.8

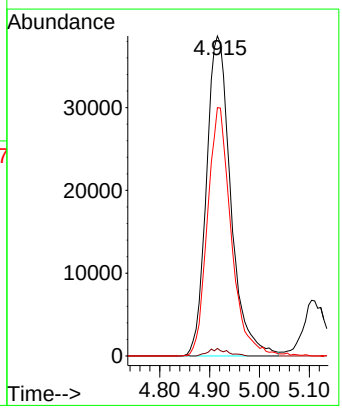


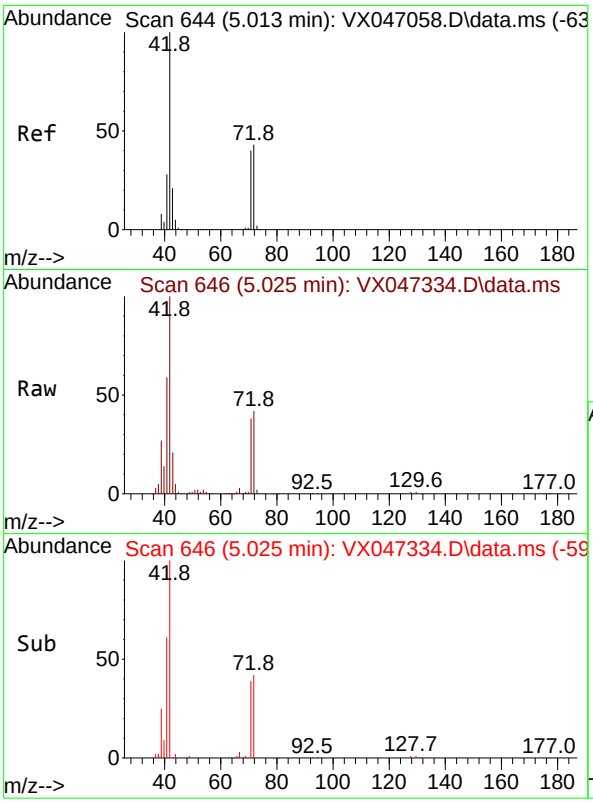


#28
Bromochloromethane
Concen: 57.062 ug/l
RT: 4.915 min Scan# 628
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 49 Resp: 130854

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	75.3	59.0	88.4



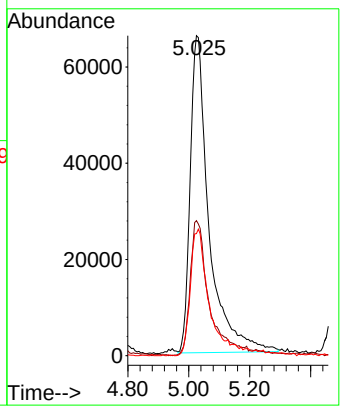


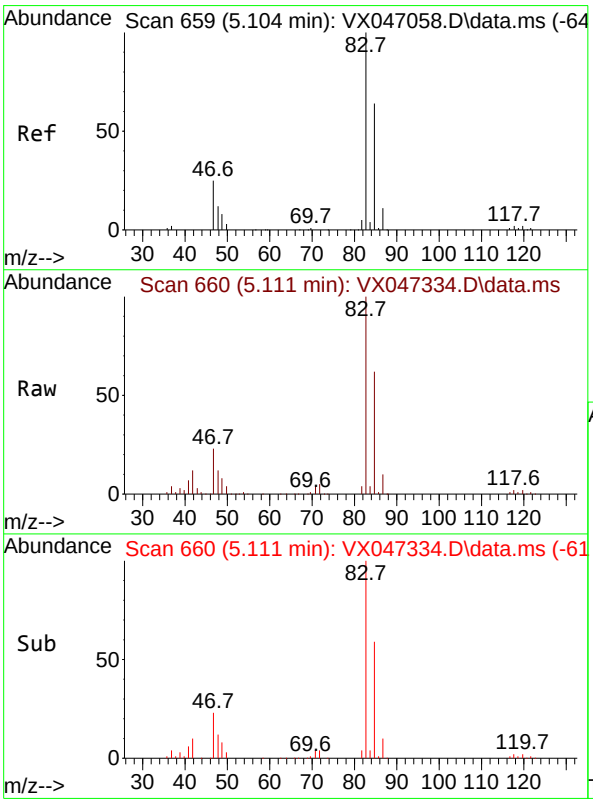
#29
Tetrahydrofuran
Concen: 293.999 ug/l
RT: 5.025 min Scan# 64
Delta R.T. 0.012 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 282886

Ion	Ratio	Lower	Upper
42	100		
72	43.2	33.7	50.5
71	40.3	31.0	46.4

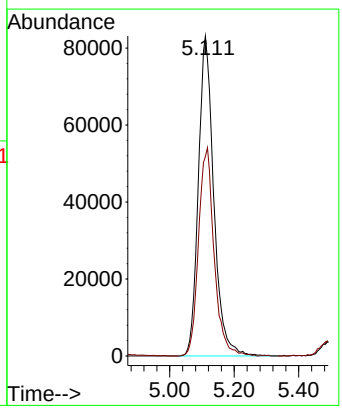


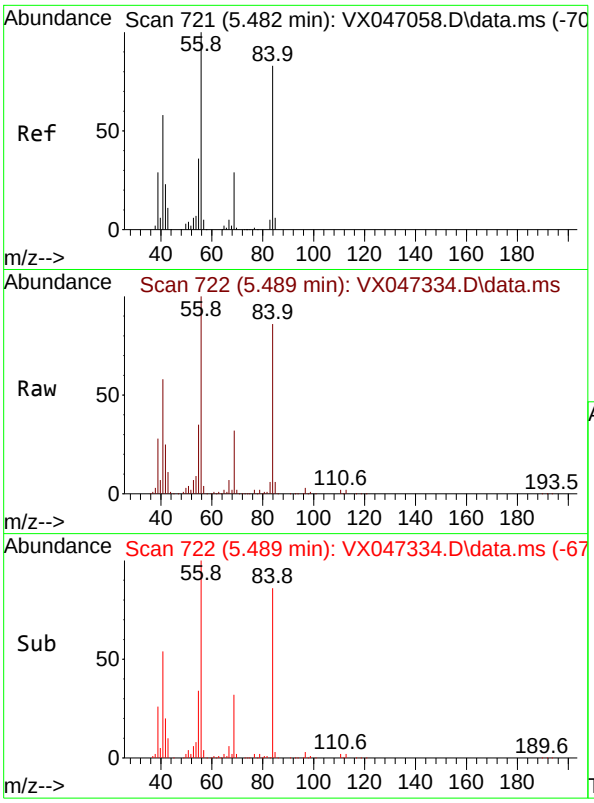


#30
Chloroform
Concen: 54.310 ug/l
RT: 5.111 min Scan# 660
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 83 Resp: 275564

Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.9	76.3



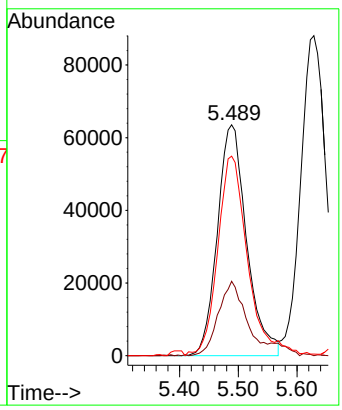


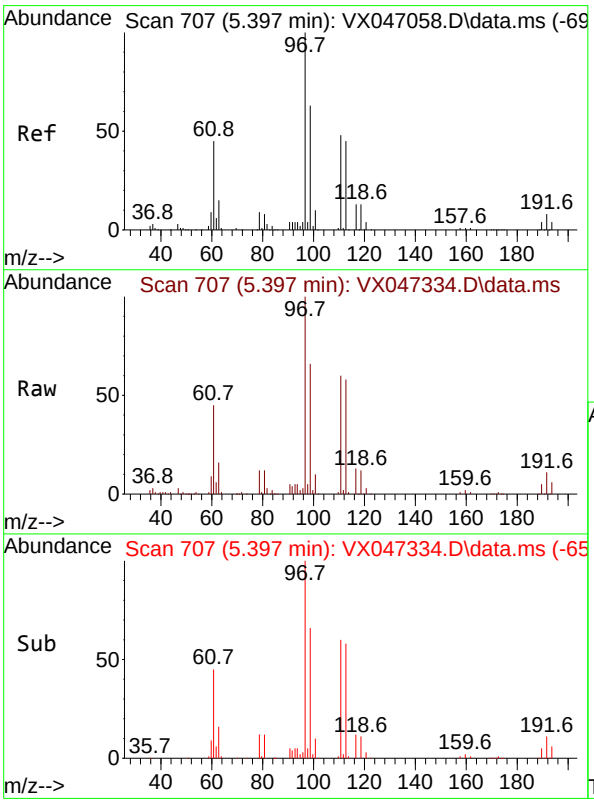
#31
Cyclohexane
Concen: 45.987 ug/l
RT: 5.489 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 219791

Ion	Ratio	Lower	Upper
56	100		
69	32.0	23.3	34.9
84	84.3	66.5	99.7

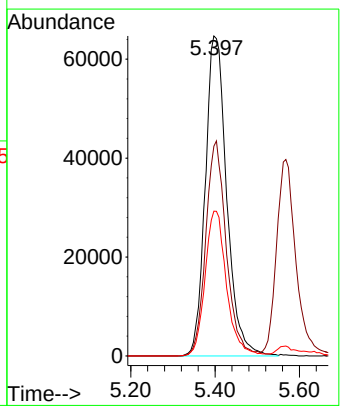


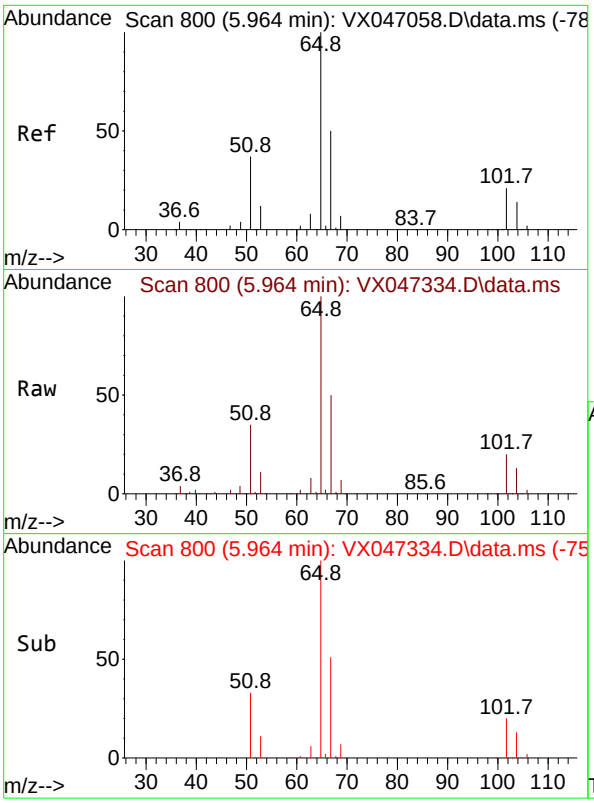


#32
1,1,1-Trichloroethane
Concen: 51.894 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 97 Resp: 228701

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.2	76.8
61	45.5	37.1	55.7



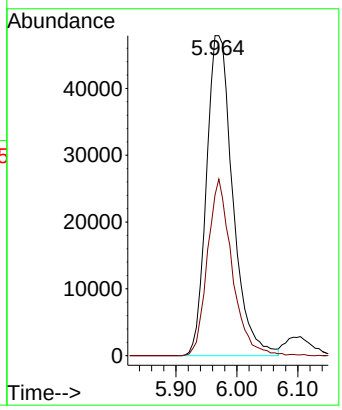


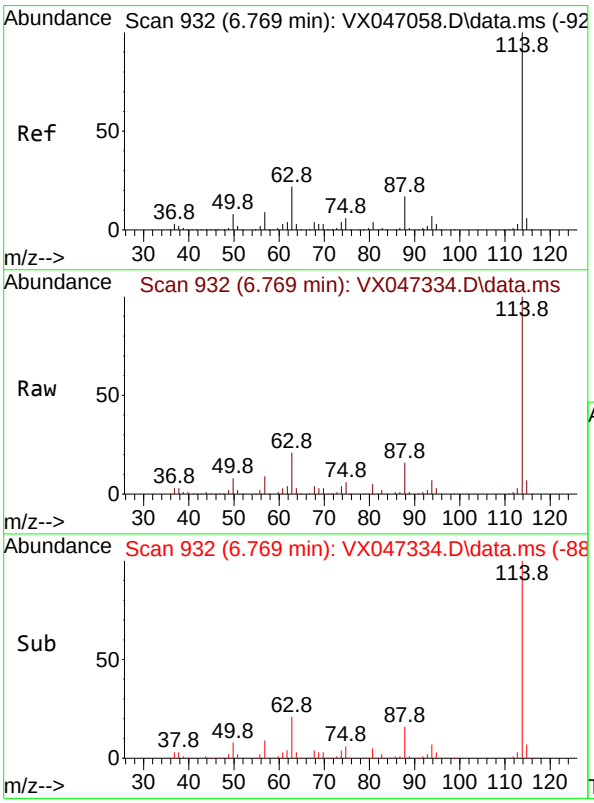
#33
1,2-Dichloroethane-d4
Concen: 56.170 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 143603

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	104.8

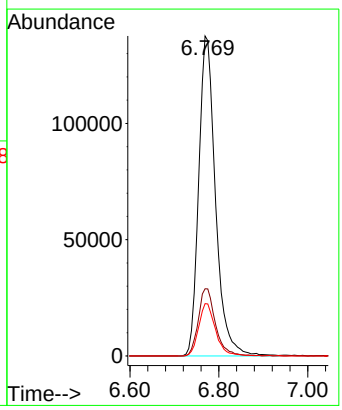


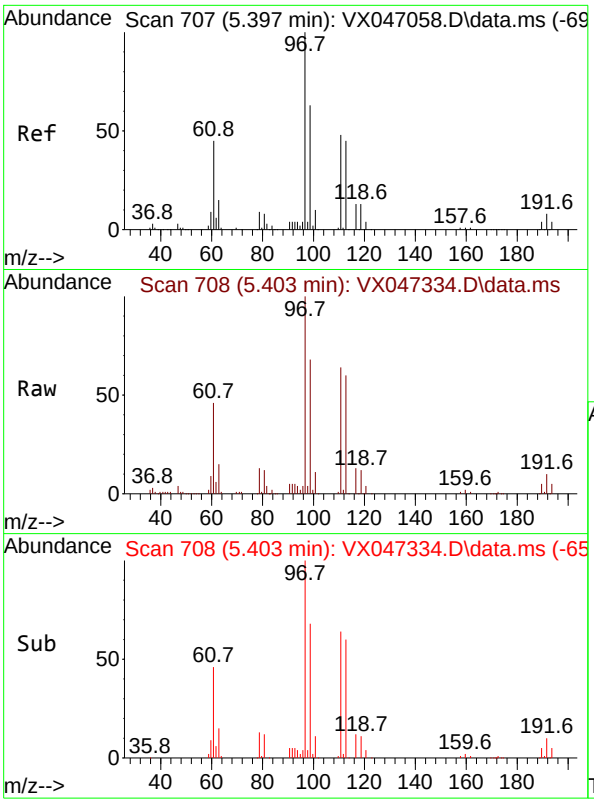


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:114 Resp: 362249

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.2
88	16.4	0.0	33.8



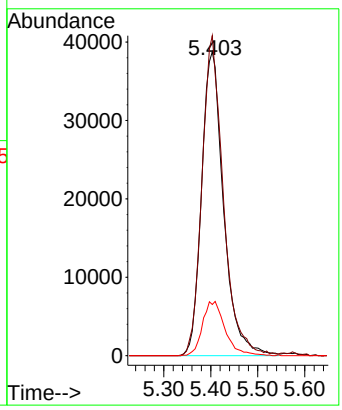


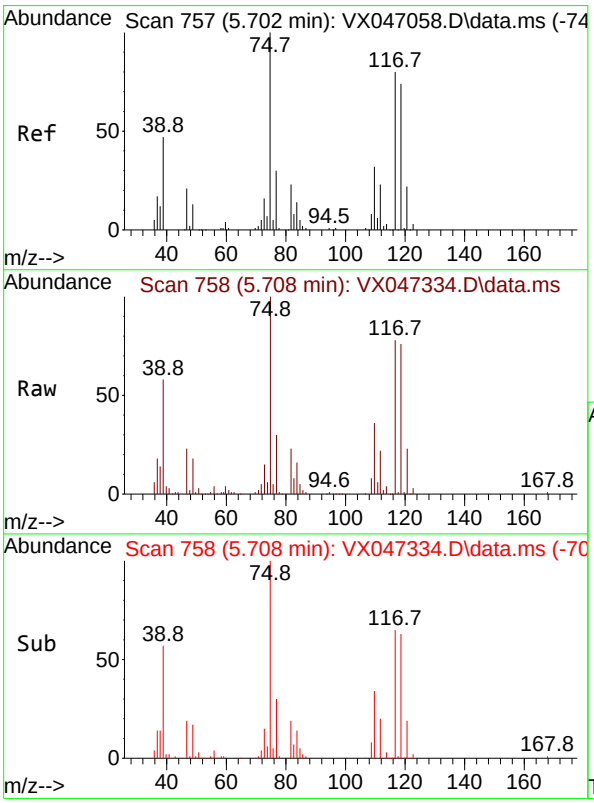
#35
Dibromofluoromethane
Concen: 56.338 ug/l
RT: 5.403 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 126007

Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.6	124.0
192	18.4	14.9	22.3

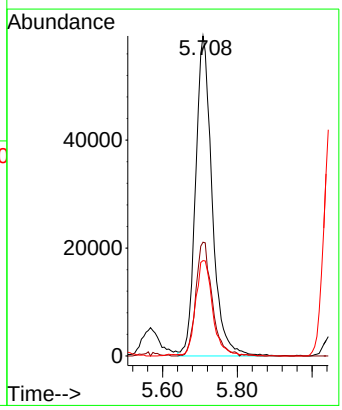


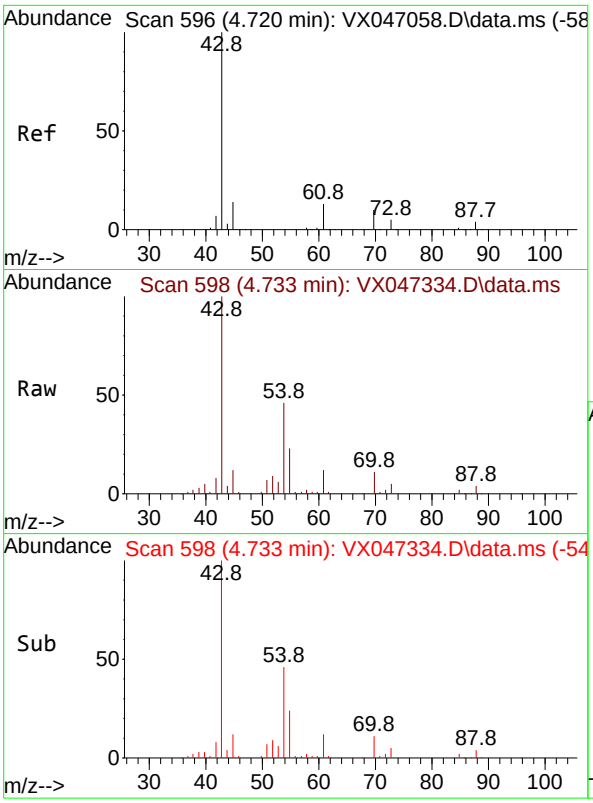


#36
1,1-Dichloropropene
Concen: 47.746 ug/l
RT: 5.708 min Scan# 758
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 75 Resp: 182035

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.2	51.5
77	30.9	25.1	37.7



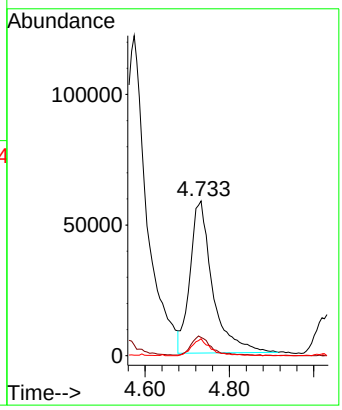


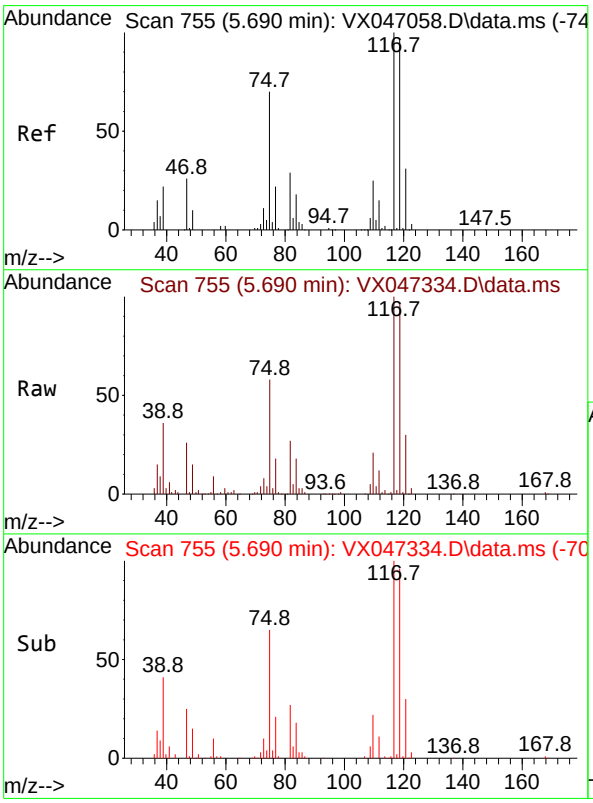
#37
Ethyl Acetate
Concen: 61.671 ug/l
RT: 4.733 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 216655

Ion	Ratio	Lower	Upper
43	100		
61	11.0	10.2	15.2
70	9.3	8.1	12.1

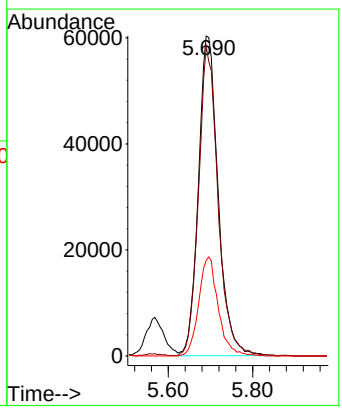


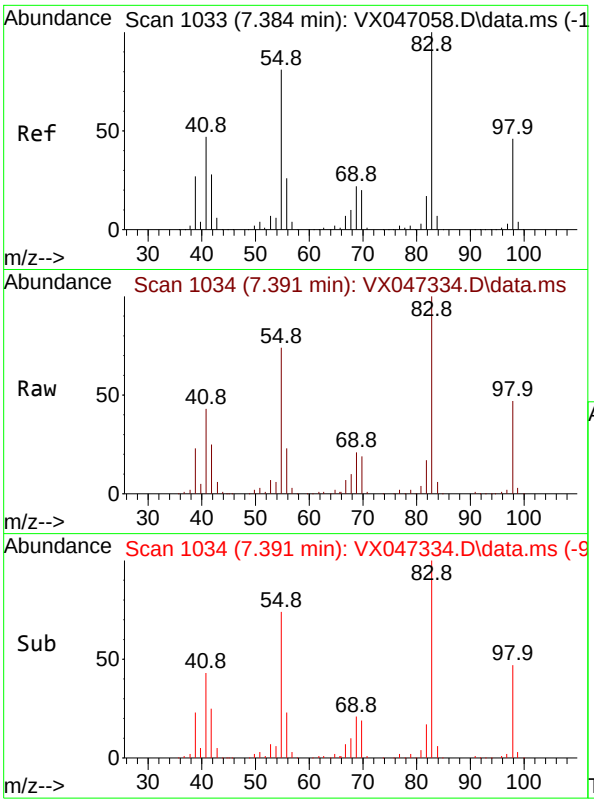


#38
Carbon Tetrachloride
Concen: 48.436 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:117 Resp: 197096

Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.6	115.0
121	29.9	24.4	36.6



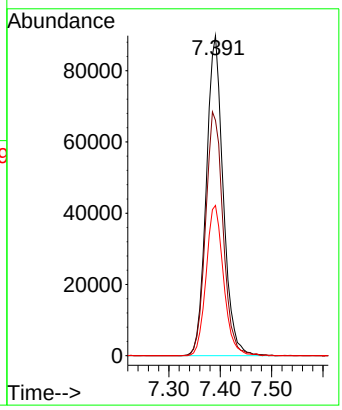


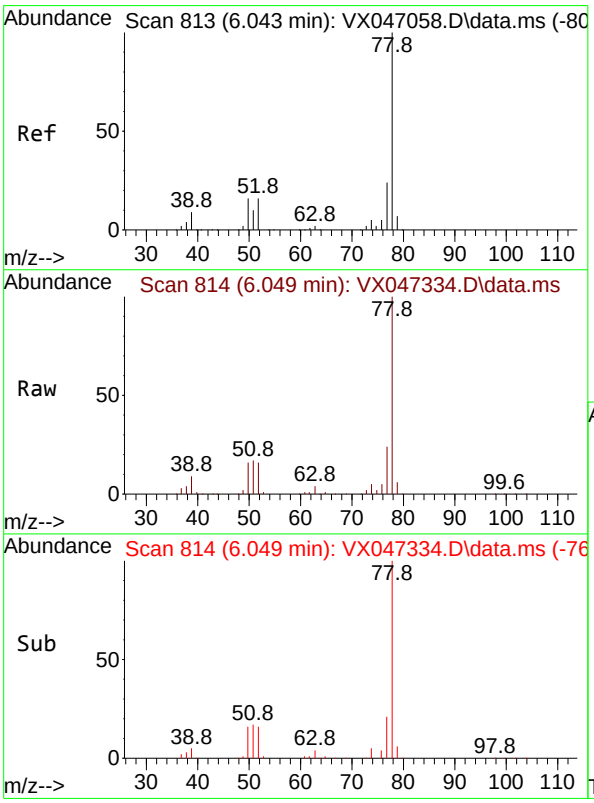
#39
Methylcyclohexane
Concen: 42.990 ug/l
RT: 7.391 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 204641

Ion	Ratio	Lower	Upper
83	100		
55	73.6	64.5	96.7
98	46.9	36.9	55.3

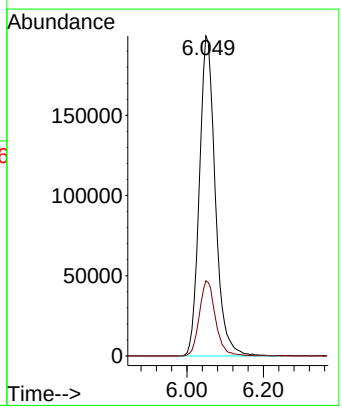


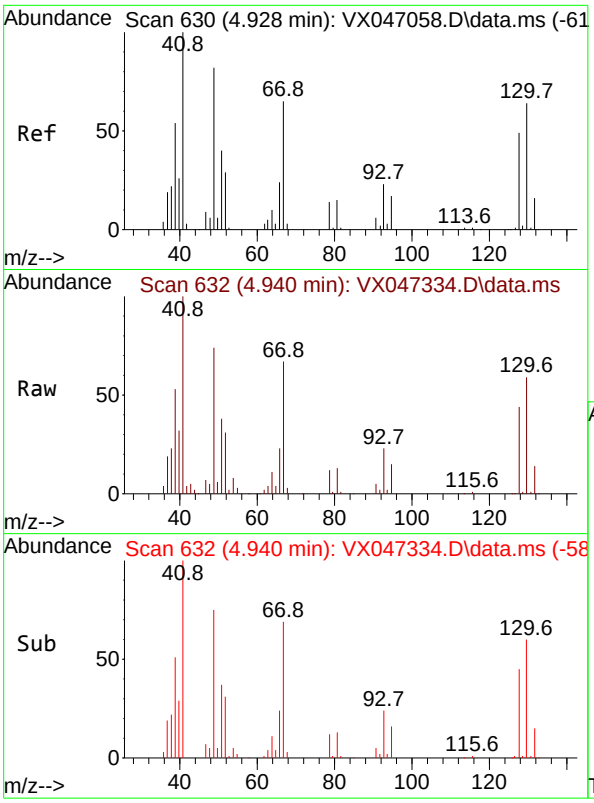


#40
Benzene
Concen: 52.258 ug/l
RT: 6.049 min Scan# 814
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 78 Resp: 576594

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4



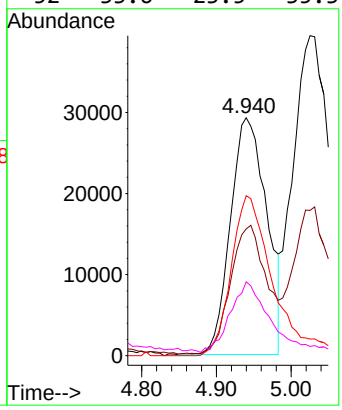


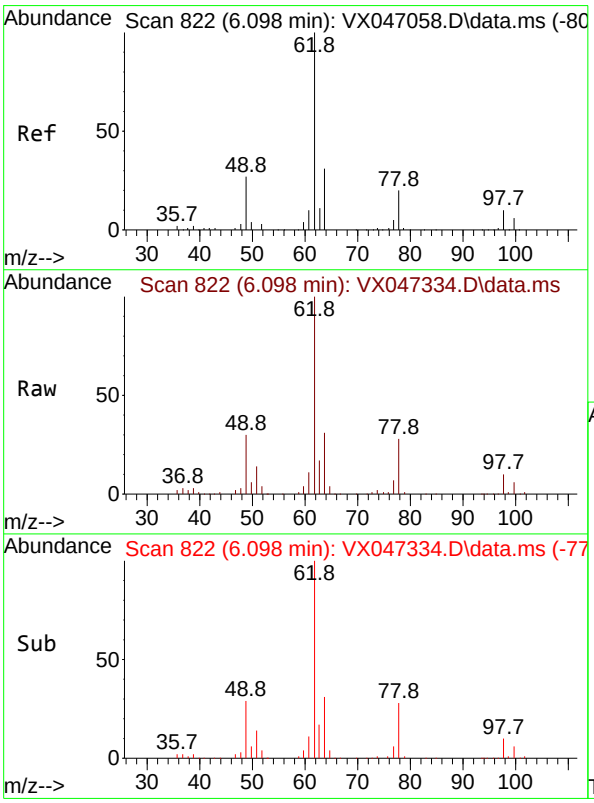
#41
Methacrylonitrile
Concen: 53.704 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.012 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 98648

Ion	Ratio	Lower	Upper
41	100		
39	53.6	44.2	66.2
67	79.5	56.4	84.6
52	33.6	23.5	35.3

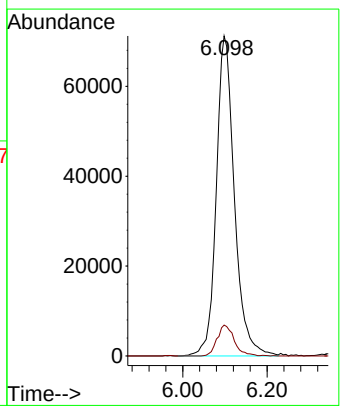


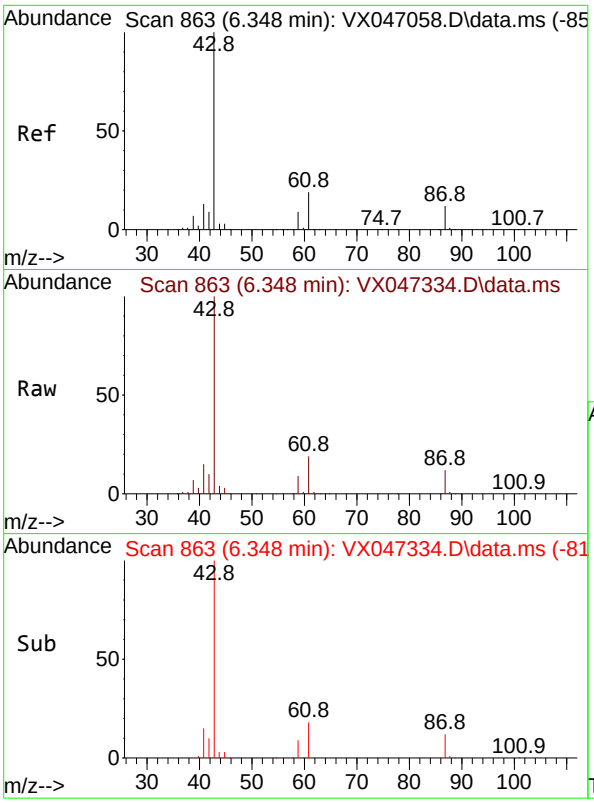


#42
1,2-Dichloroethane
Concen: 54.449 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 62 Resp: 211626

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.8



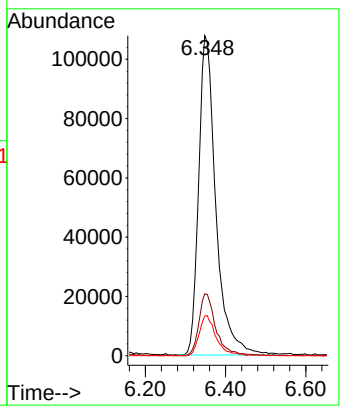


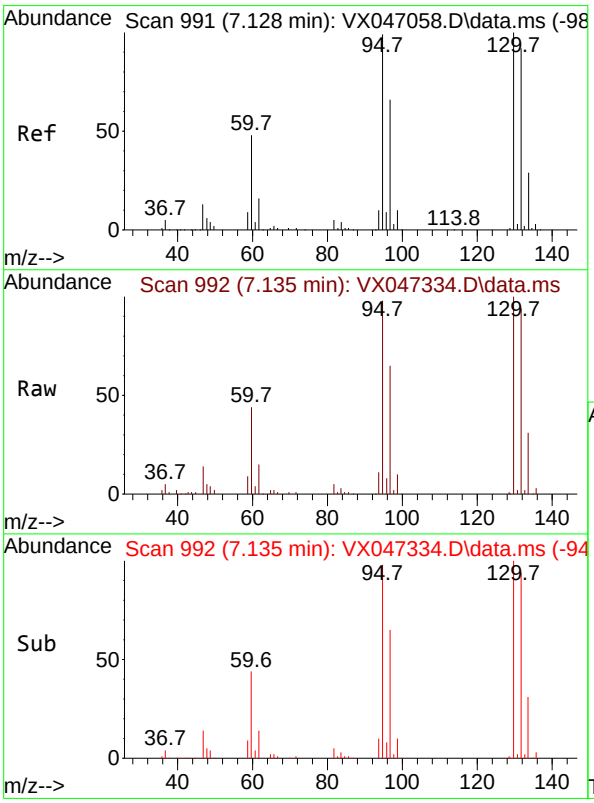
#43
Isopropyl Acetate
Concen: 58.771 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 321876

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.1	22.7
87	12.2	9.7	14.5

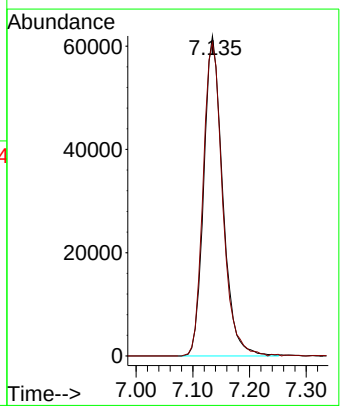


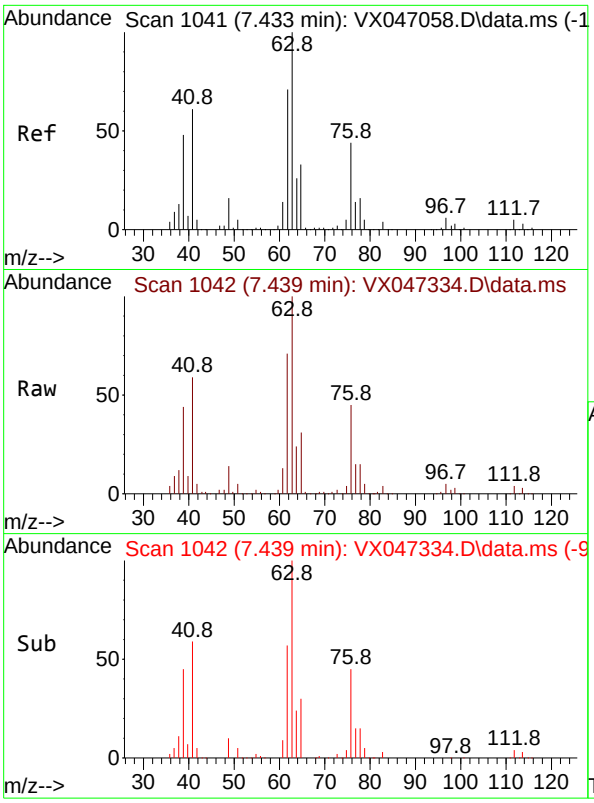


#44
Trichloroethene
Concen: 50.839 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:130 Resp: 143842

Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	198.6



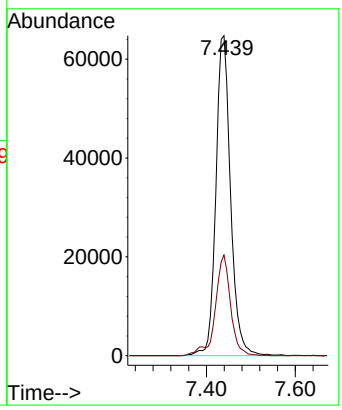


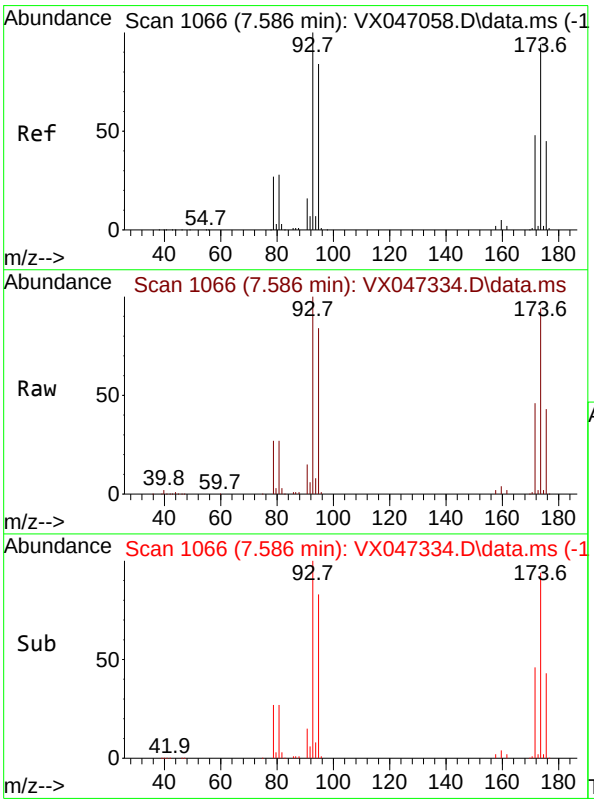
#45
1,2-Dichloropropane
Concen: 53.617 ug/l
RT: 7.439 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 148168

Ion	Ratio	Lower	Upper
63	100		
65	31.4	26.3	39.5

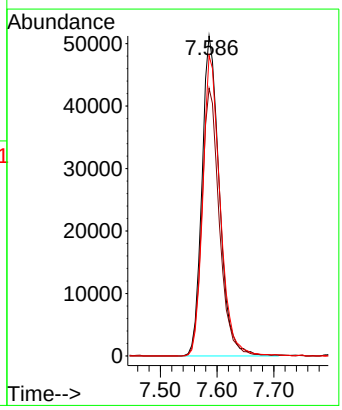


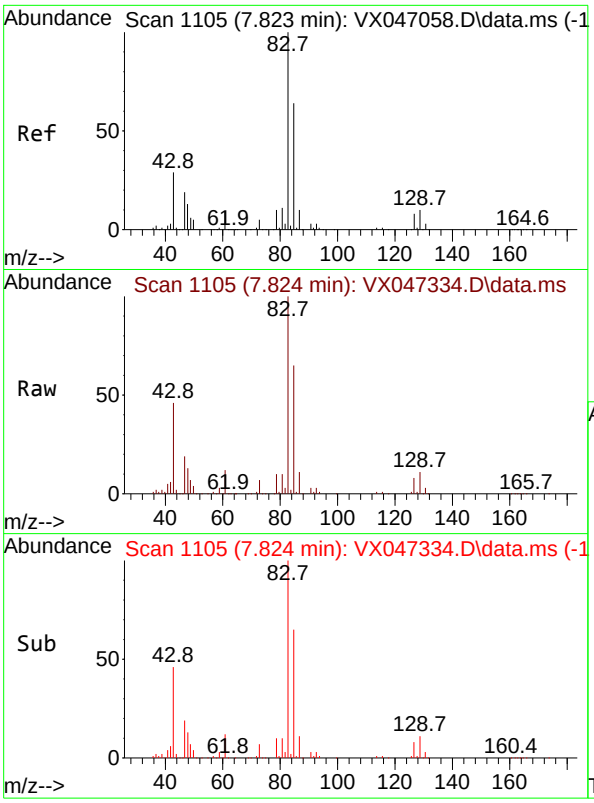


#46
Dibromomethane
Concen: 56.394 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 93 Resp: 109285

Ion	Ratio	Lower	Upper
93	100		
95	83.5	65.9	98.9
174	93.5	74.6	112.0



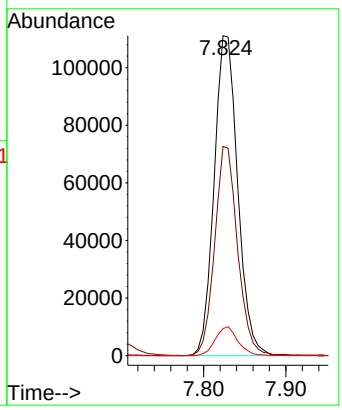


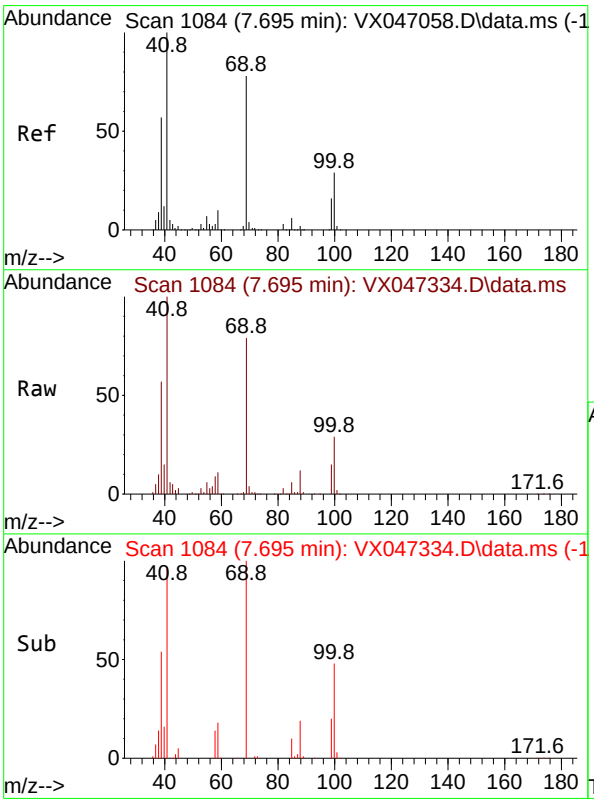
#47
Bromodichloromethane
Concen: 53.726 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 221607

Ion	Ratio	Lower	Upper
83	100		
85	66.3	49.9	74.9
127	8.4	6.6	10.0

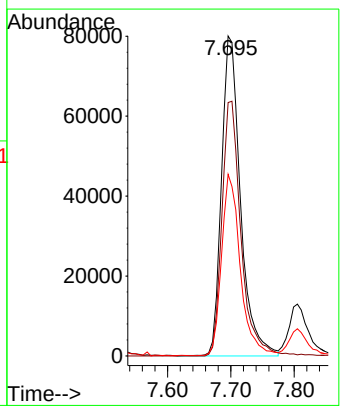


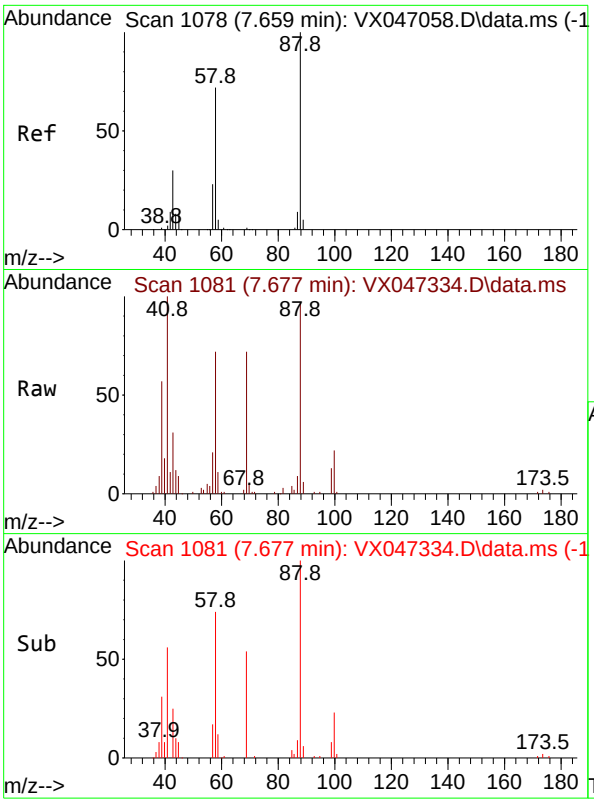


#48
Methyl methacrylate
Concen: 55.869 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 41 Resp: 166691

Ion	Ratio	Lower	Upper
41	100		
69	80.1	62.3	93.5
39	56.0	44.8	67.2



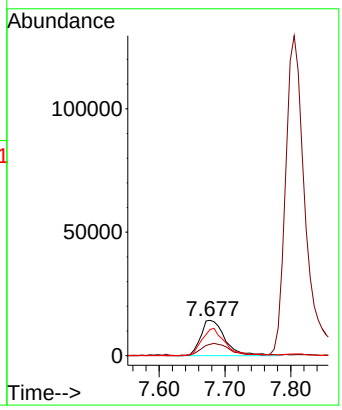


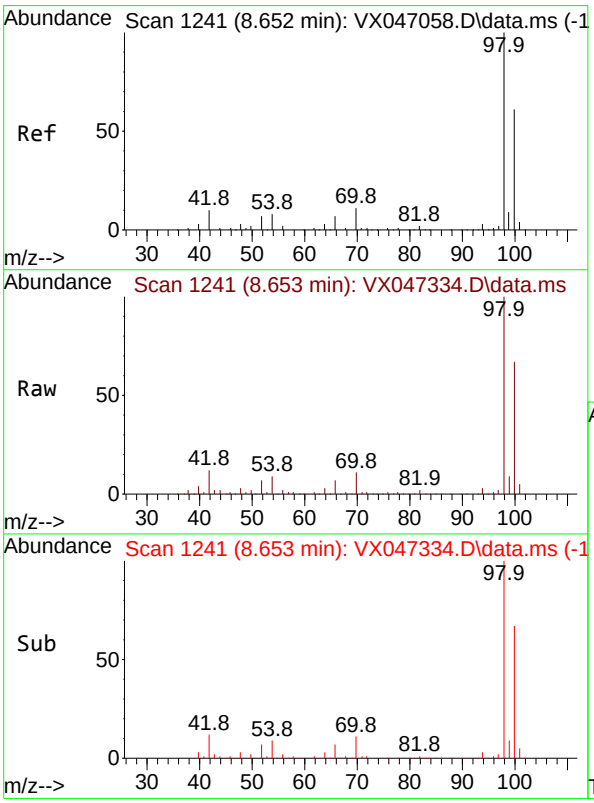
#49
1,4-Dioxane
Concen: 1096.675 ug/l
RT: 7.677 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 37215

Ion	Ratio	Lower	Upper
88	100		
43	40.2	33.6	50.4
58	72.9	58.8	88.2

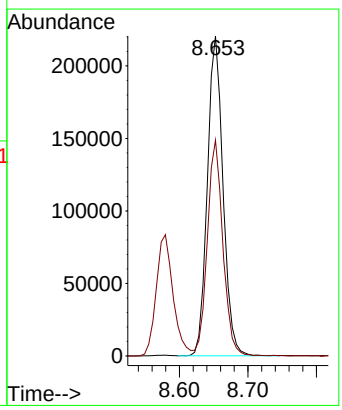


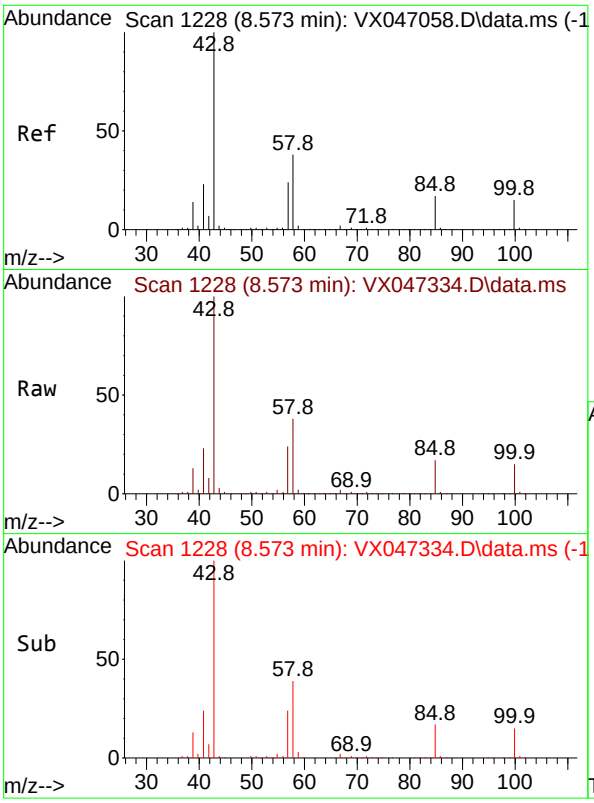


#50
Toluene-d8
Concen: 48.401 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 98 Resp: 350581

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.3	79.9



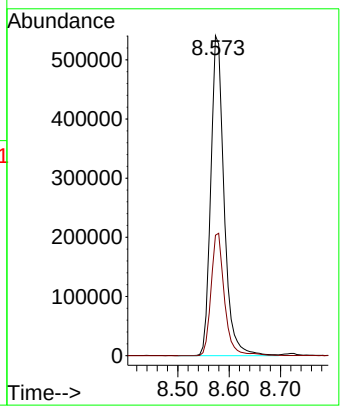


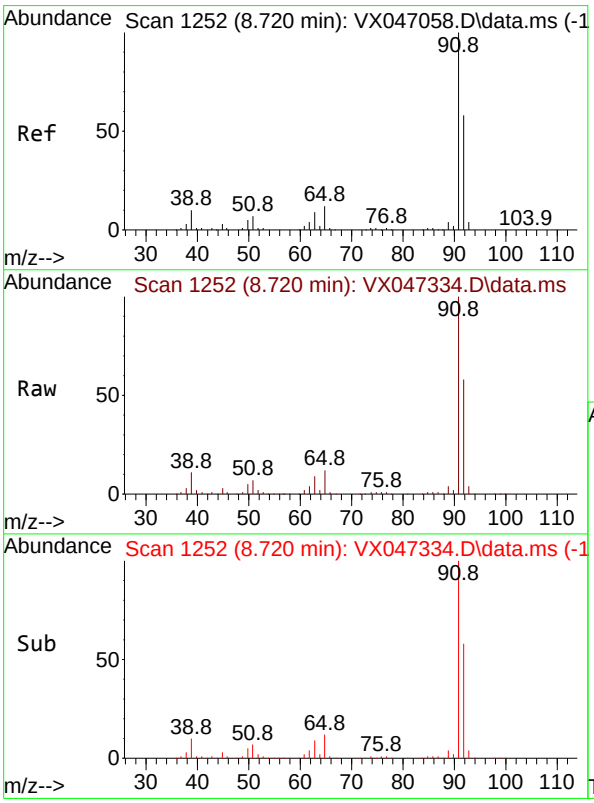
#51
4-Methyl-2-Pentanone
Concen: 298.510 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 971754

Ion	Ratio	Lower	Upper
43	100		
58	38.6	30.6	45.8

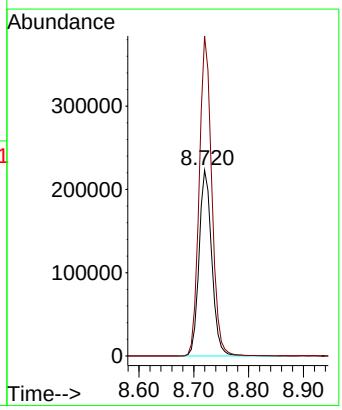


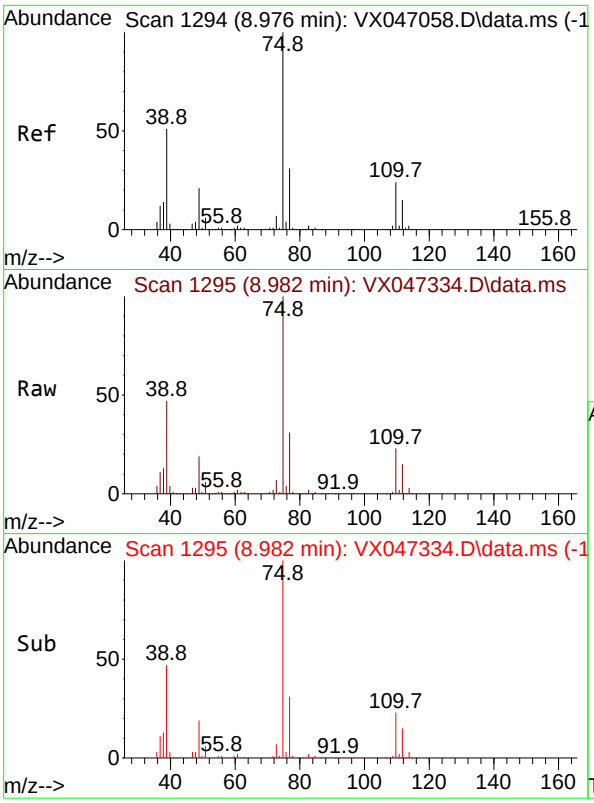


#52
Toluene
Concen: 52.894 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 92 Resp: 358851

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.9	206.9



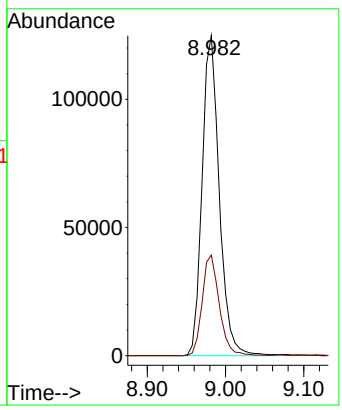


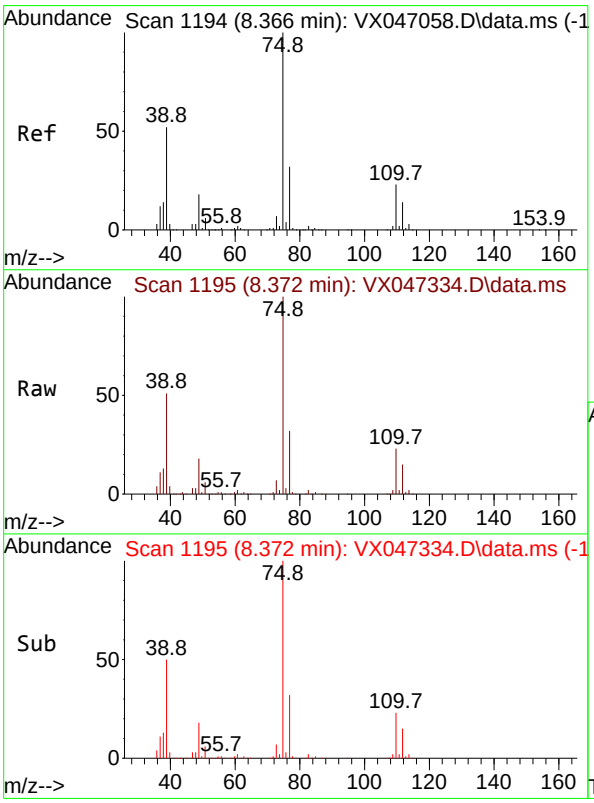
#53
t-1,3-Dichloropropene
Concen: 48.781 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 190007

Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.5	36.7

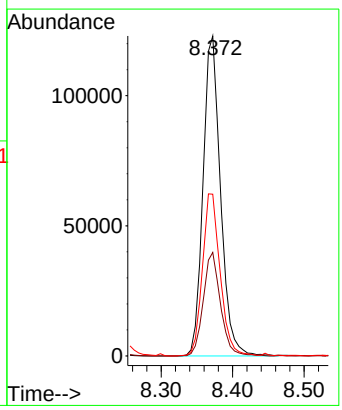


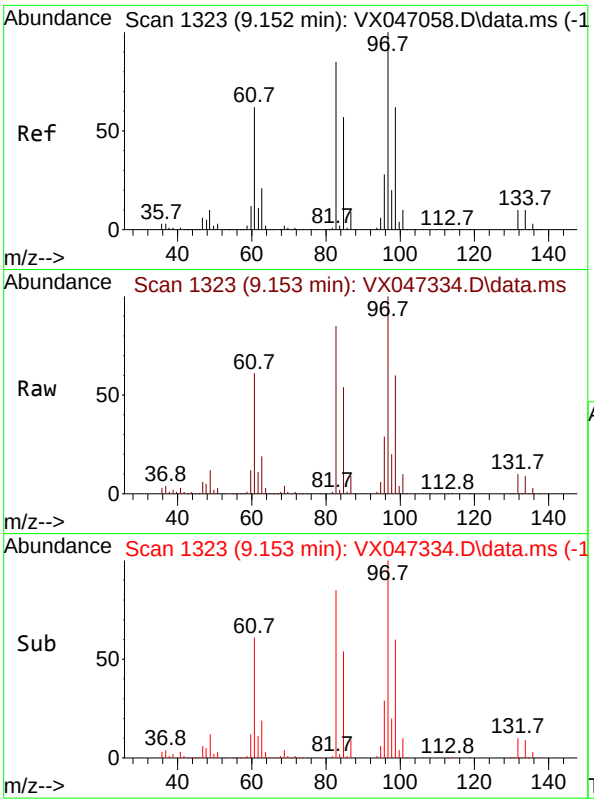


#54
cis-1,3-Dichloropropene
Concen: 49.007 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 75 Resp: 208919

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.4	38.0
39	50.3	41.8	62.6



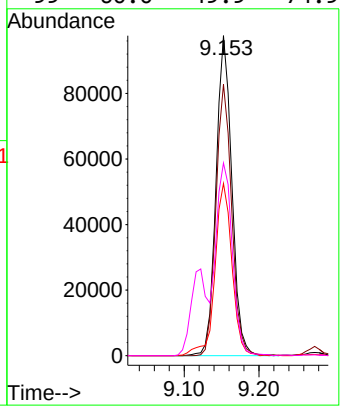


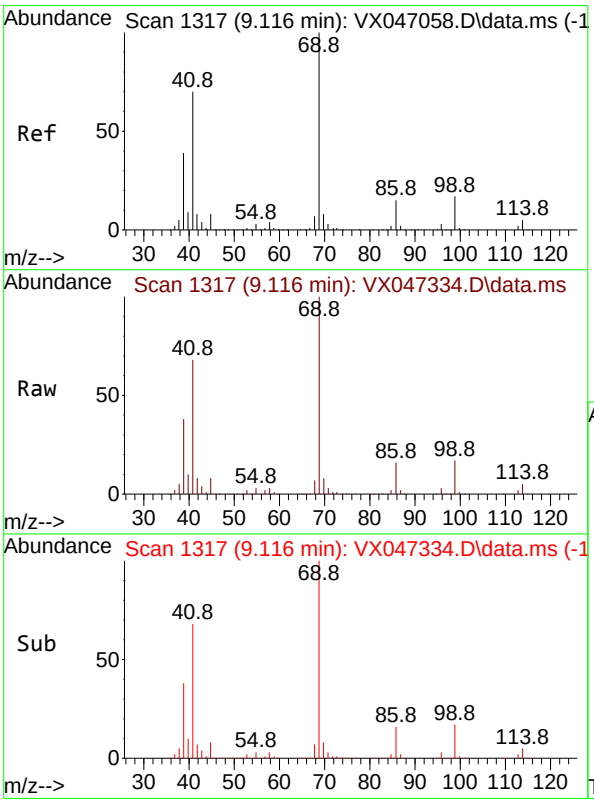
#55
1,1,2-Trichloroethane
Concen: 56.437 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 143591

Ion	Ratio	Lower	Upper
97	100		
83	84.7	68.0	102.0
85	53.7	45.2	67.8
99	60.0	49.9	74.9

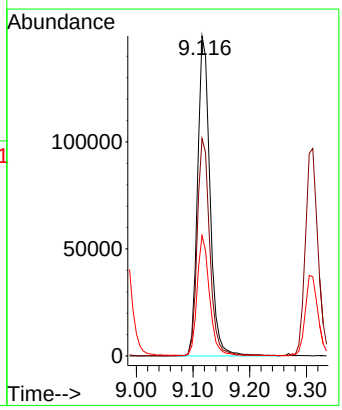


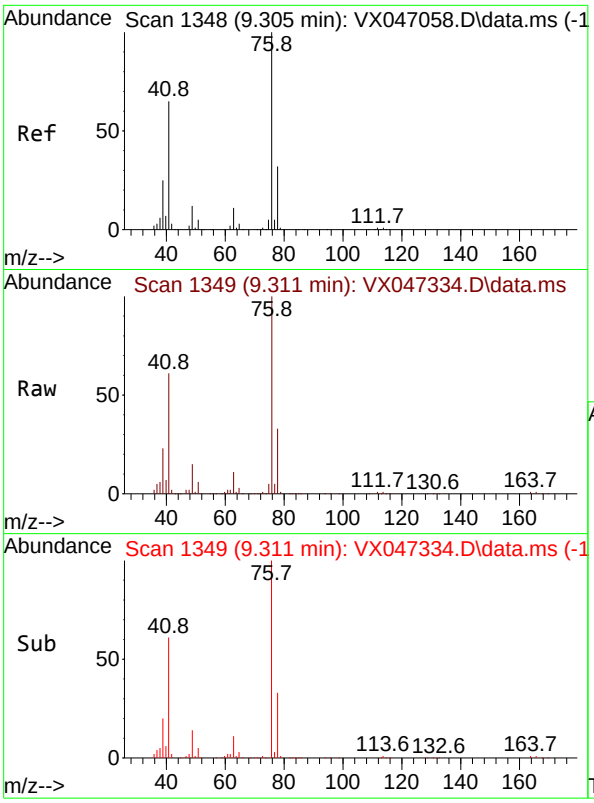


#56
Ethyl methacrylate
Concen: 60.258 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 69 Resp: 226969

Ion	Ratio	Lower	Upper
69	100		
41	68.8	56.1	84.1
39	37.1	31.1	46.7



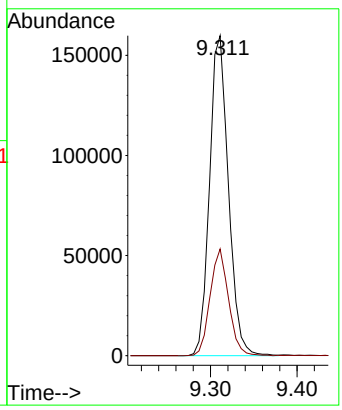


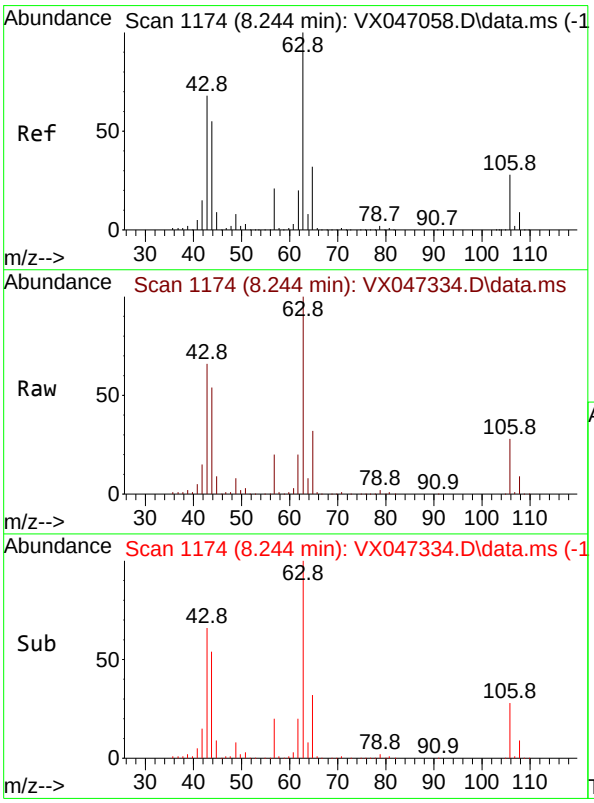
#57
1,3-Dichloropropane
Concen: 54.612 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 241487

Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.5	38.3

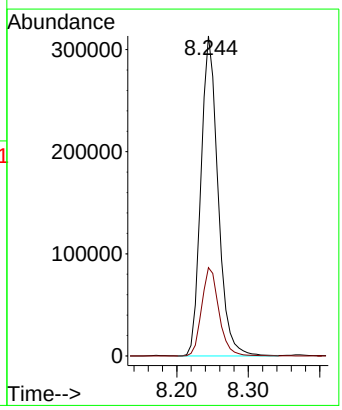


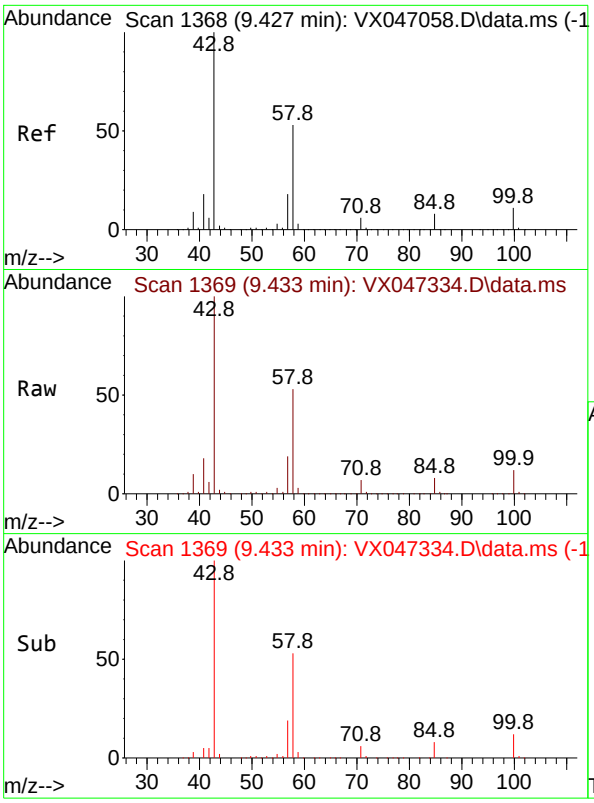


#58
2-Chloroethyl Vinyl ether
Concen: 248.283 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 63 Resp: 520399

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.2	33.4



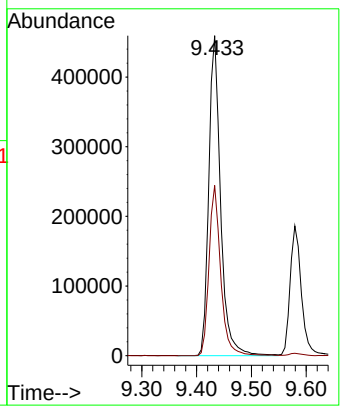


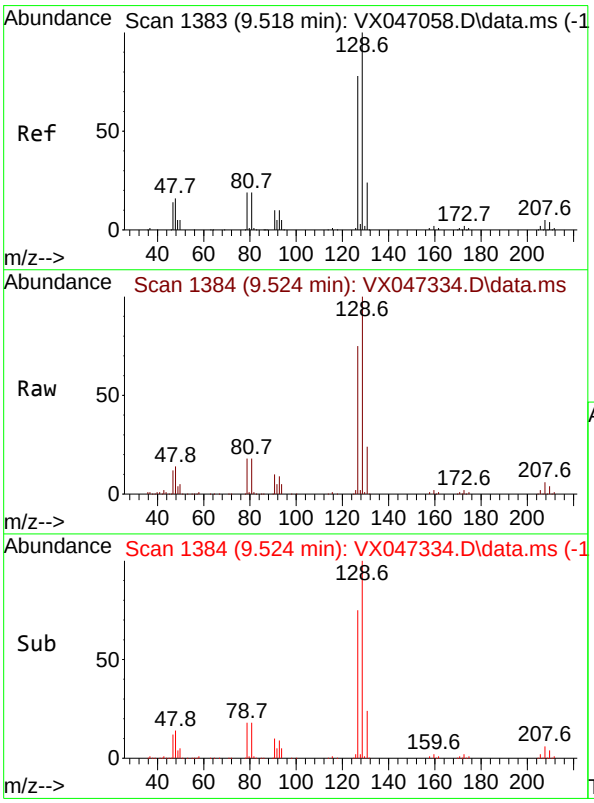
#59
2-Hexanone
Concen: 317.134 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 682075

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.5	79.5

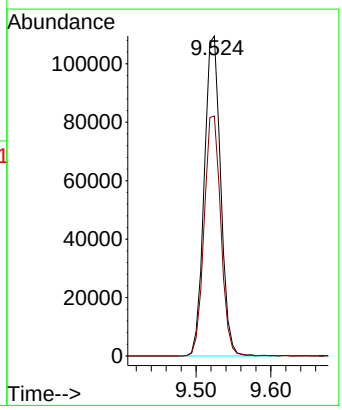


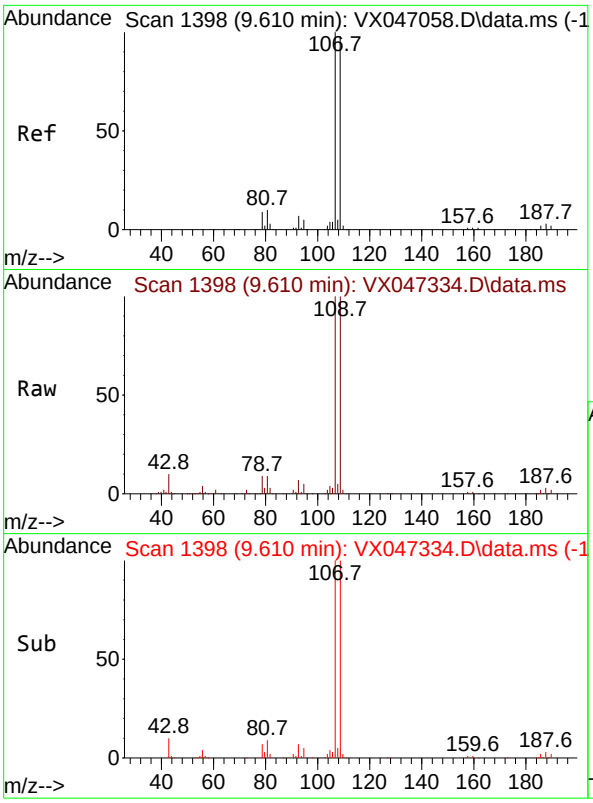


#60
Dibromochloromethane
Concen: 55.953 ug/l
RT: 9.524 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:129 Resp: 166965

Ion	Ratio	Lower	Upper
129	100		
127	76.0	38.6	115.8



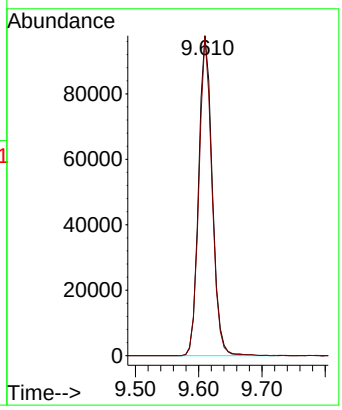


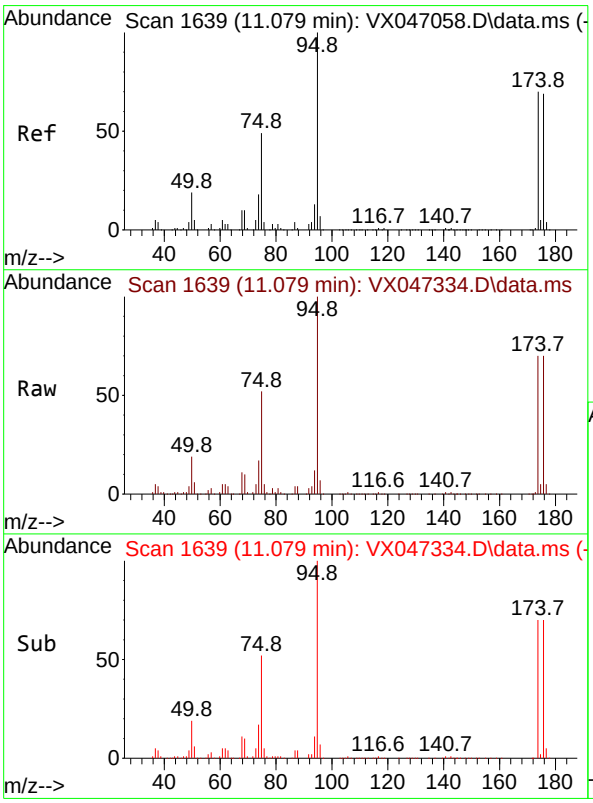
#61
1,2-Dibromoethane
Concen: 54.984 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 146279

Ion	Ratio	Lower	Upper
107	100		
109	95.9	74.6	112.0

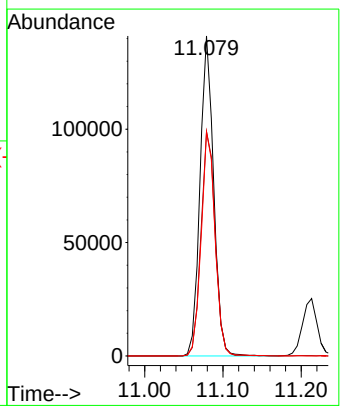


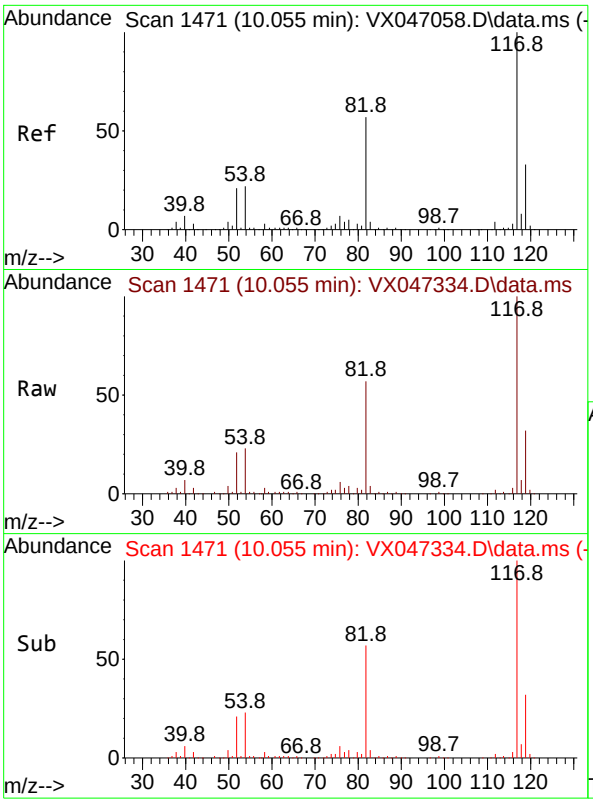


#62
4-Bromofluorobenzene
Concen: 54.458 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 95 Resp: 169988

Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	144.6
176	71.4	0.0	139.6



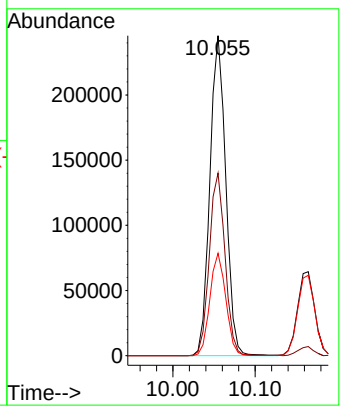


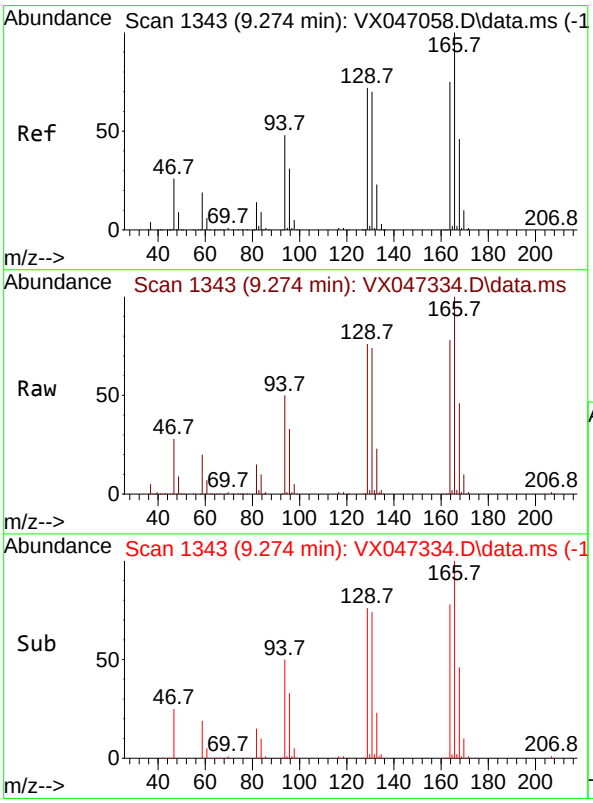
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 328856

Ion	Ratio	Lower	Upper
117	100		
82	57.0	45.4	68.2
119	32.0	26.1	39.1

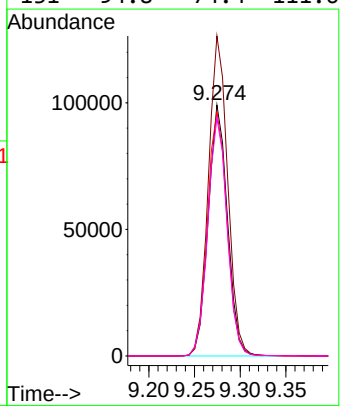


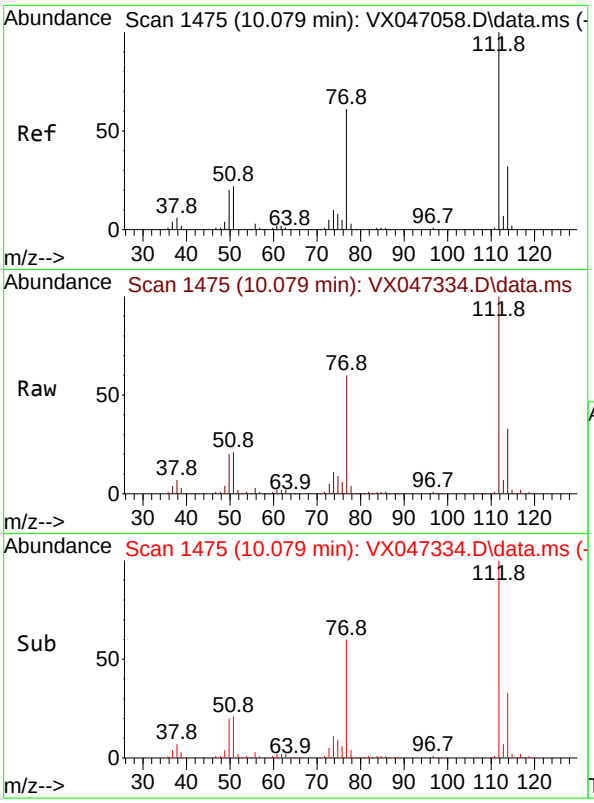


#64
Tetrachloroethene
Concen: 61.091 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:164 Resp: 144828

Ion	Ratio	Lower	Upper
164	100		
166	127.6	106.2	159.4
129	97.3	76.6	114.8
131	94.8	74.4	111.6



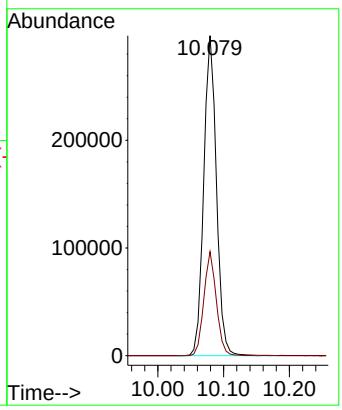


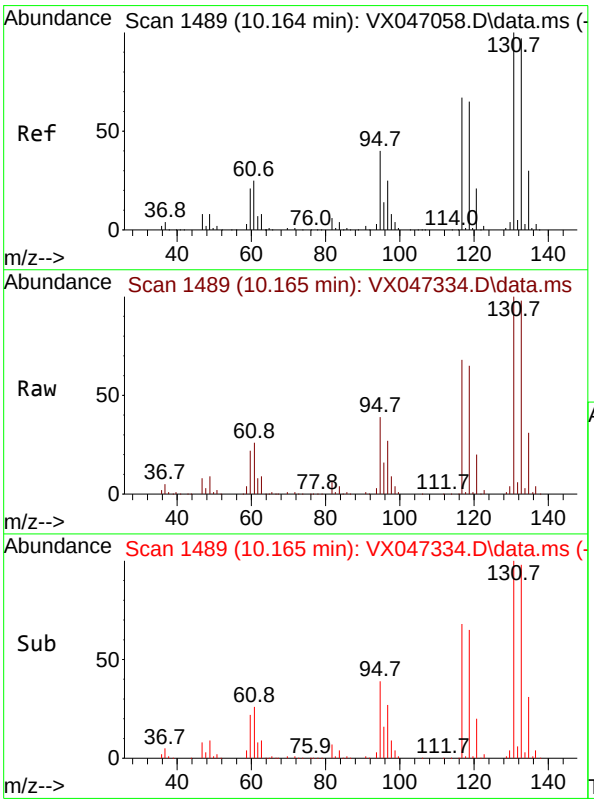
#65
Chlorobenzene
Concen: 51.735 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 398565

Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.8	38.6

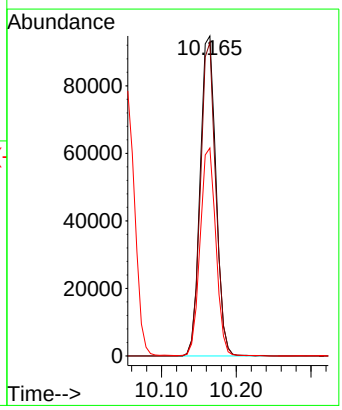


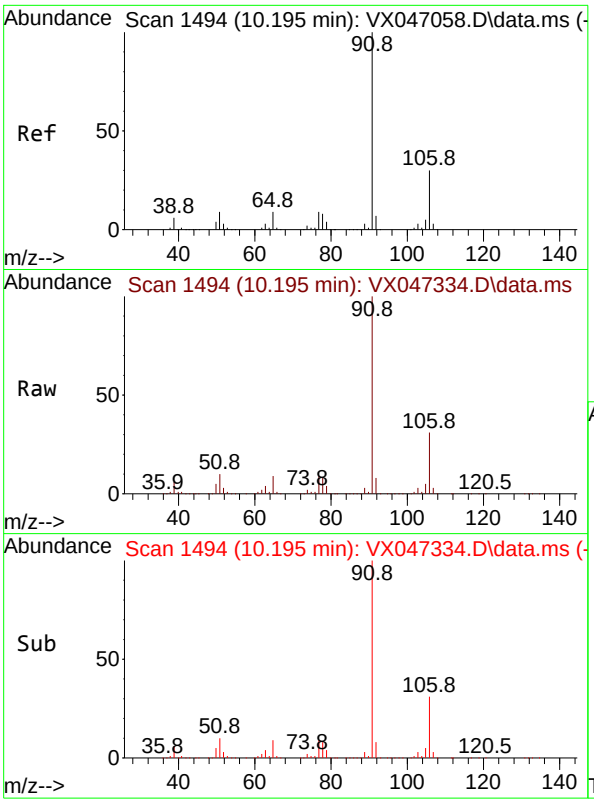


#66
1,1,1,2-Tetrachloroethane
Concen: 53.426 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:131 Resp: 138574

Ion	Ratio	Lower	Upper
131	100		
133	95.1	48.4	145.3
119	64.8	32.4	97.0



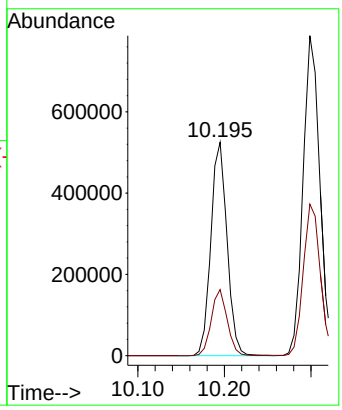


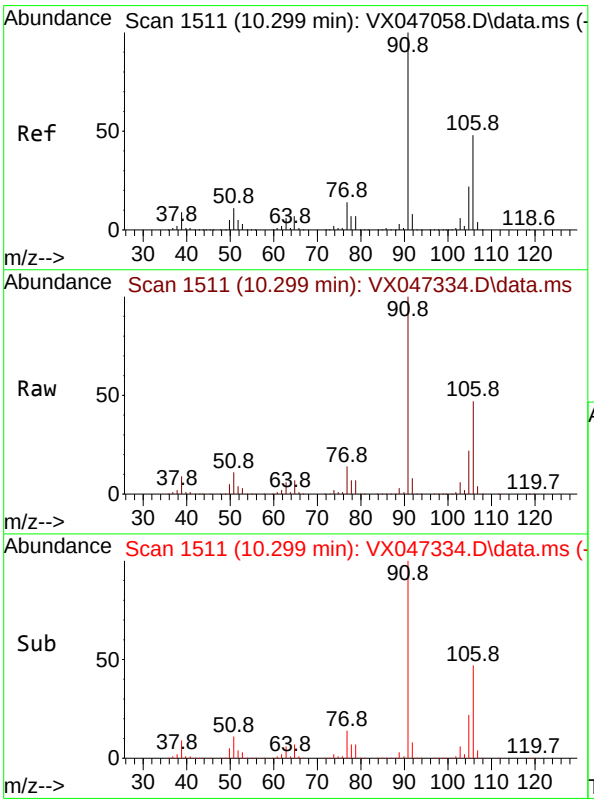
#67
Ethyl Benzene
Concen: 50.679 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 682645

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.2	36.4

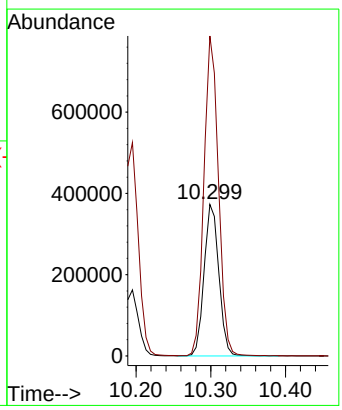


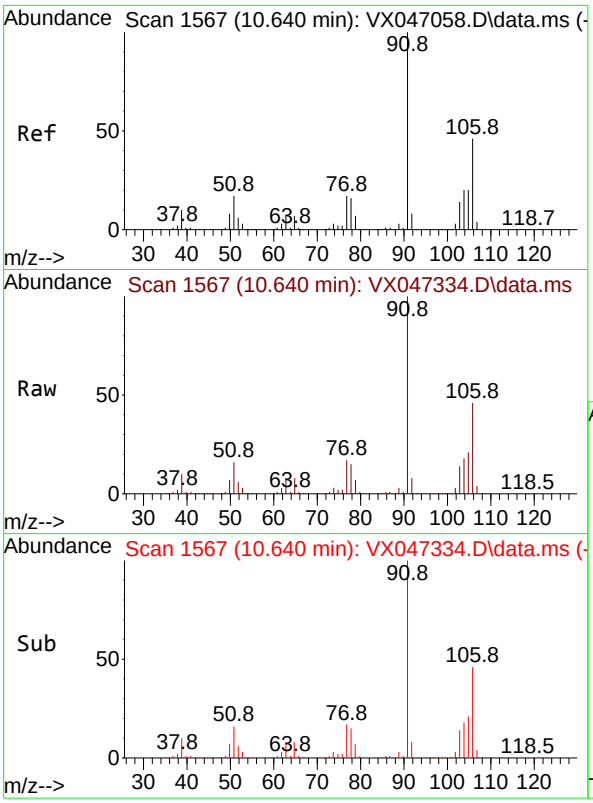


#68
m/p-Xylenes
Concen: 101.242 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:106 Resp: 510341

Ion	Ratio	Lower	Upper
106	100		
91	207.8	167.4	251.0



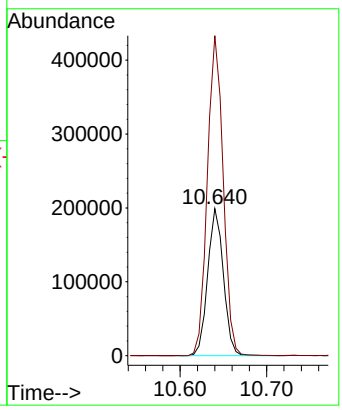


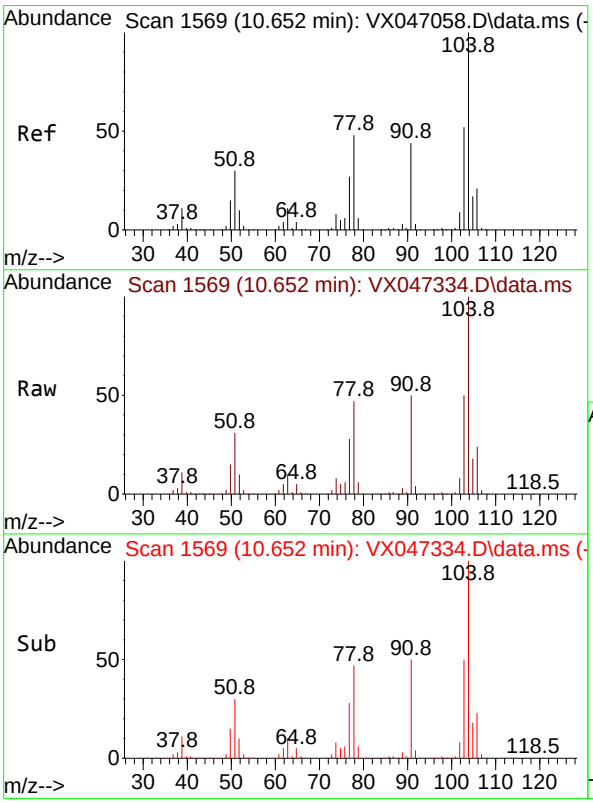
#69
o-Xylene
Concen: 52.266 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 250637

Ion	Ratio	Lower	Upper
106	100		
91	219.8	110.3	331.0

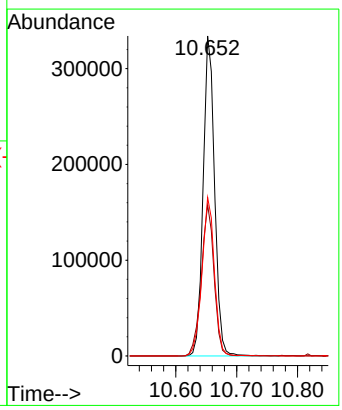


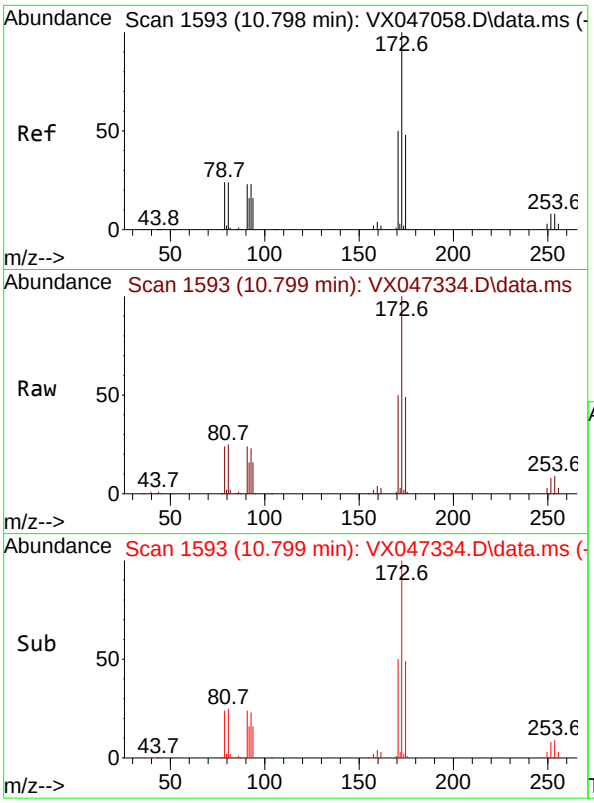


#70
Styrene
Concen: 53.262 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:104 Resp: 437969

Ion	Ratio	Lower	Upper
104	100		
78	52.3	42.0	63.0
103	53.9	43.8	65.6



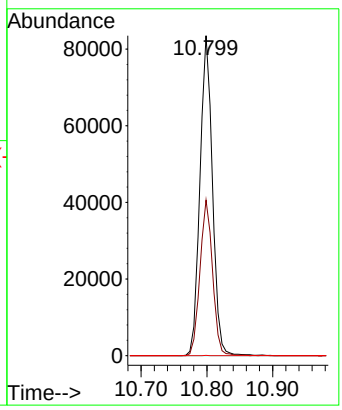


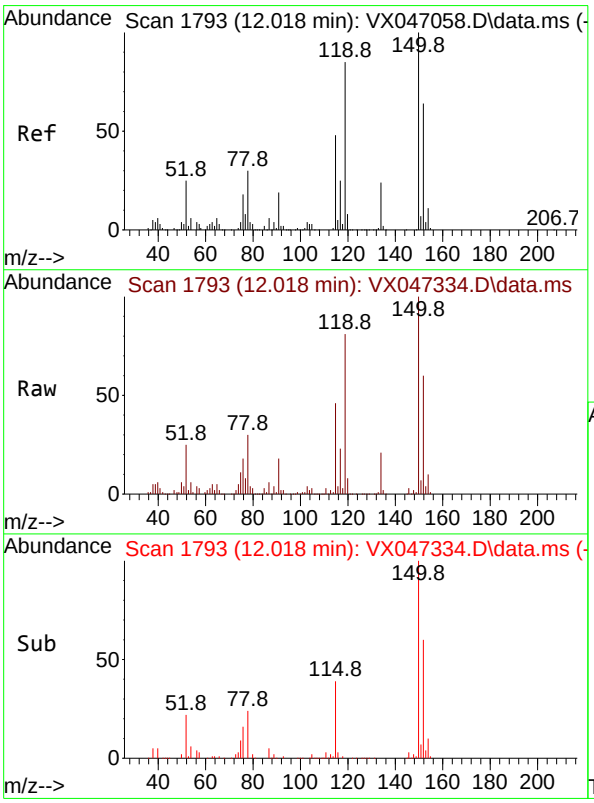
#71
Bromoform
Concen: 55.976 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 110290

Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.2	72.6
254	0.0	0.1	0.1#

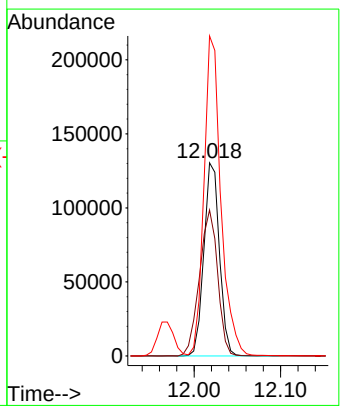


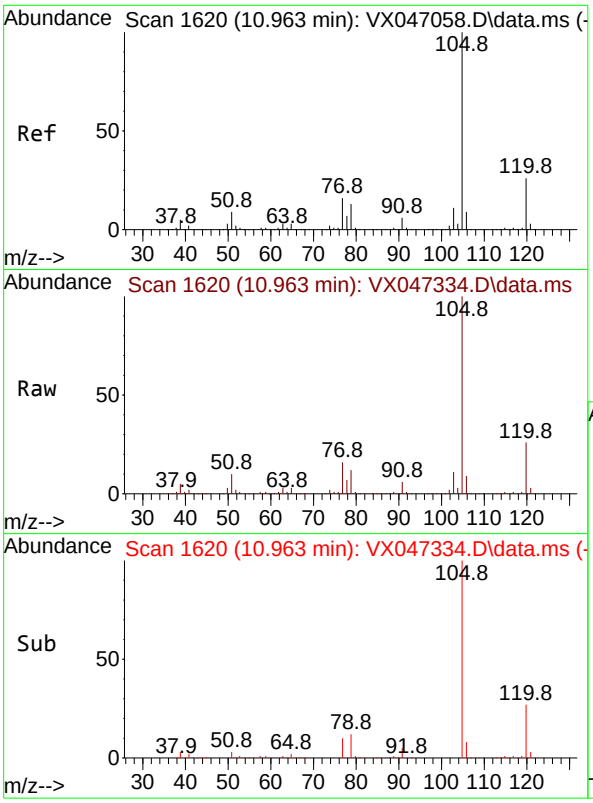


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:152 Resp: 162794

Ion	Ratio	Lower	Upper
152	100		
115	88.4	45.6	136.7
150	180.4	0.0	354.6



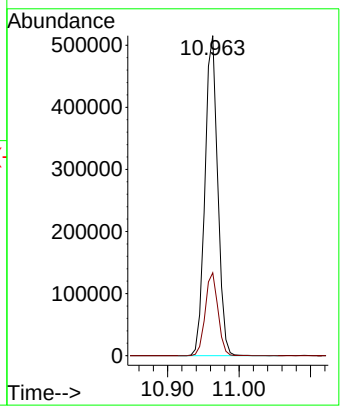


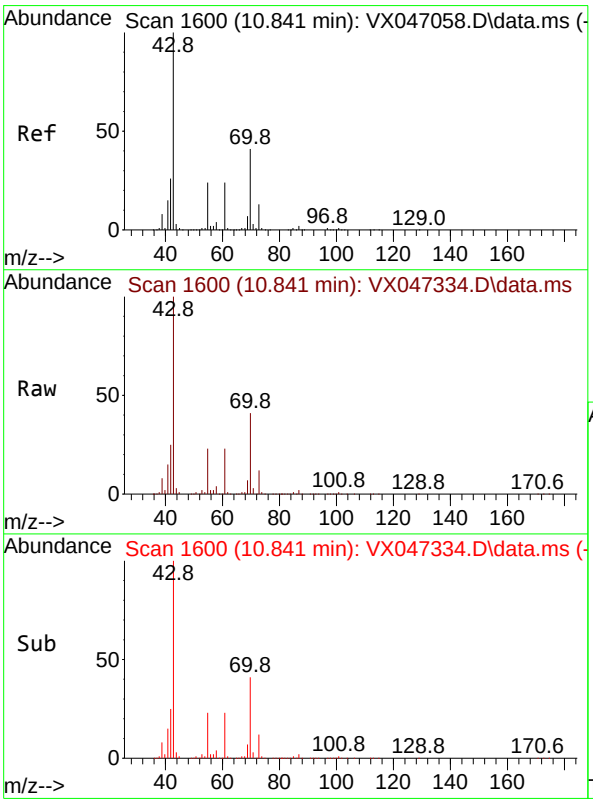
#73
Isopropylbenzene
Concen: 49.743 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 638868

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.7

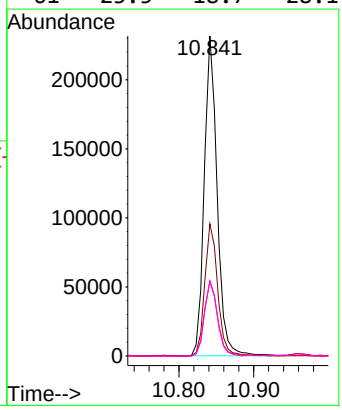


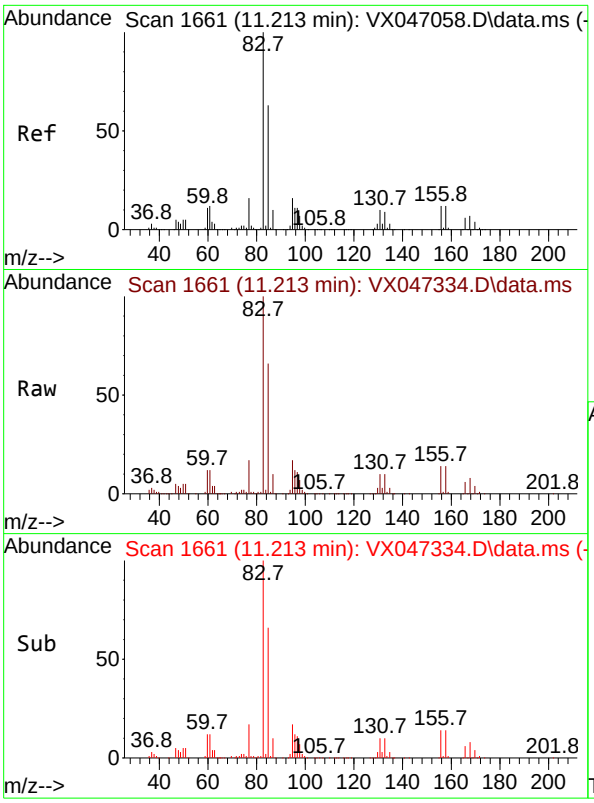


#74
N-amyl acetate
Concen: 53.447 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 43 Resp: 276966

Ion	Ratio	Lower	Upper
43	100		
70	41.9	32.3	48.5
55	24.4	18.9	28.3
61	23.5	18.7	28.1



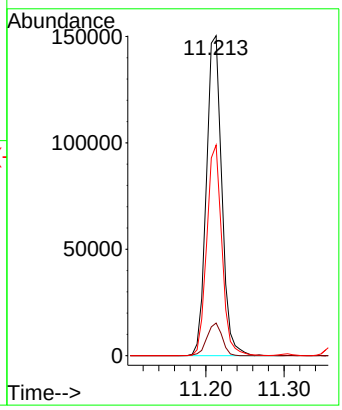


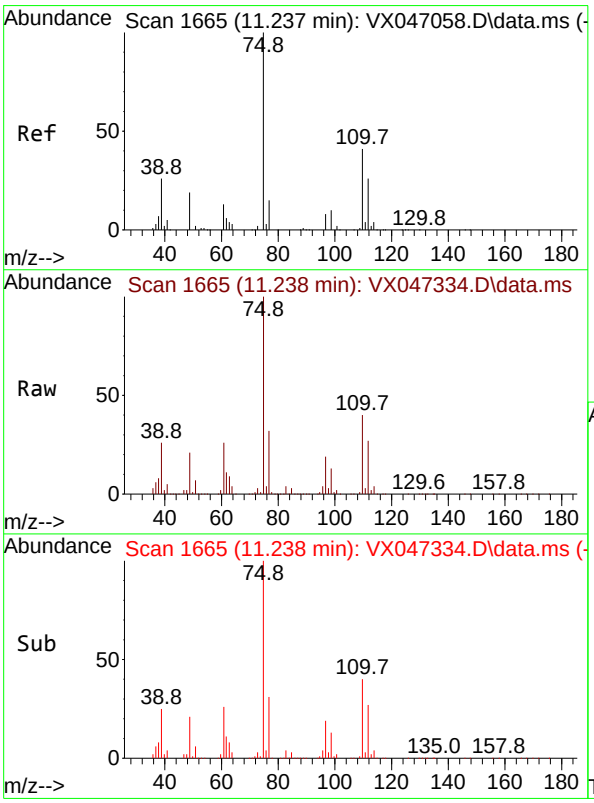
#75
1,1,2,2-Tetrachloroethane
Concen: 55.852 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 204903

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	64.5	32.0	96.2

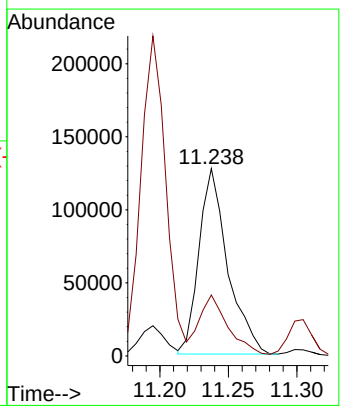


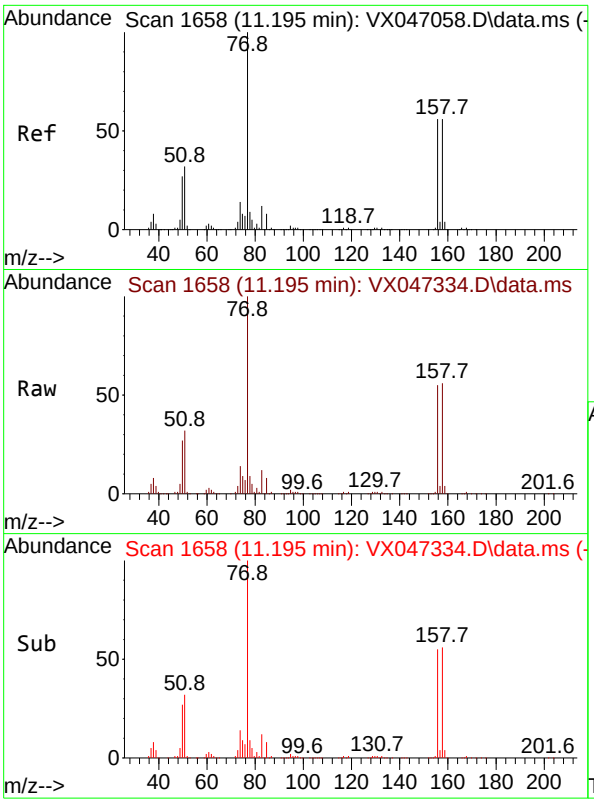


#76
1,2,3-Trichloropropane
Concen: 61.642 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 75 Resp: 185742

Ion	Ratio	Lower	Upper
75	100		
77	33.2	21.6	65.0



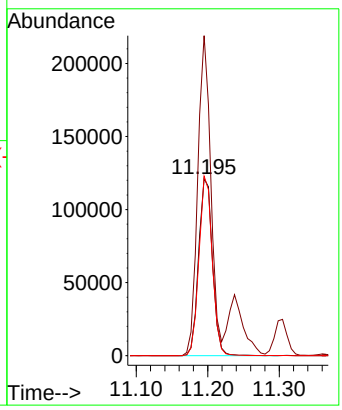


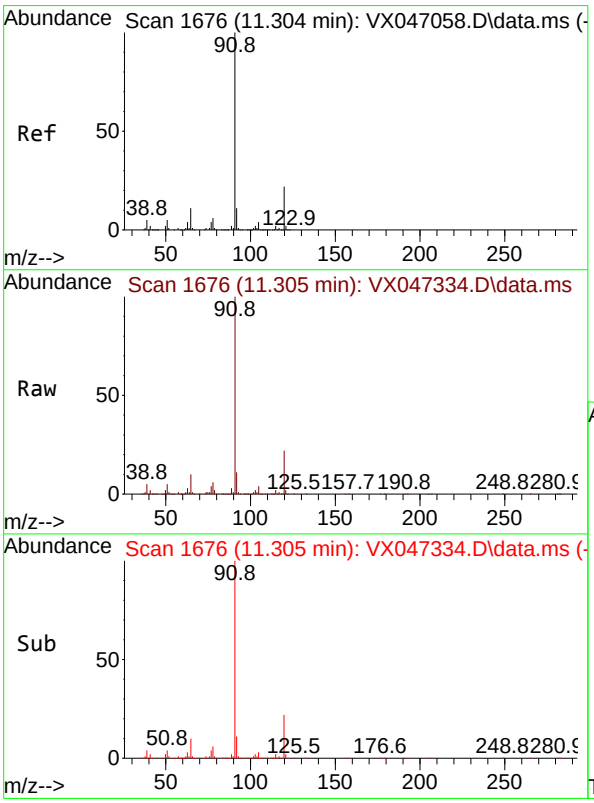
#77
Bromobenzene
Concen: 52.905 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 162977

Ion	Ratio	Lower	Upper
156	100		
77	170.4	87.3	261.9
158	97.6	48.9	146.6

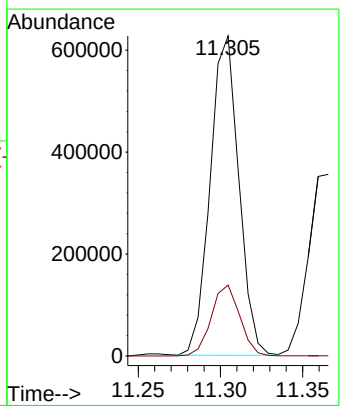


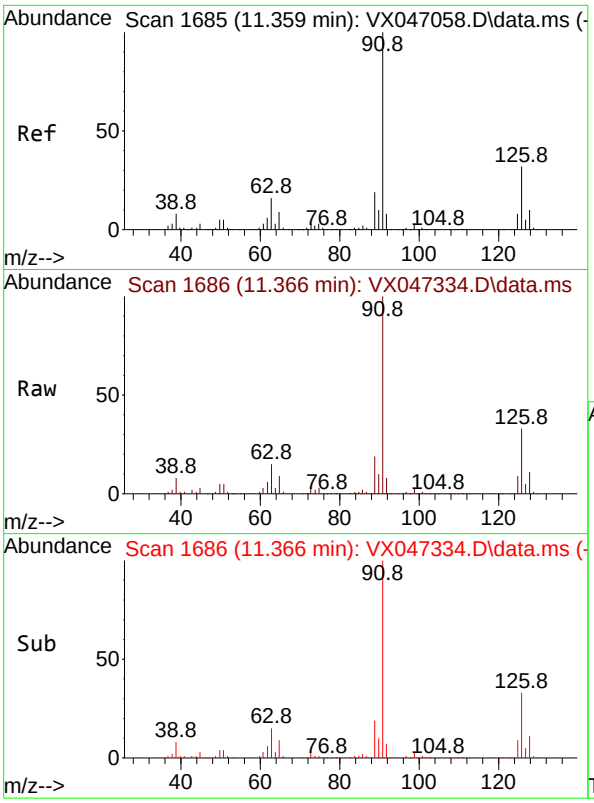


#78
n-propylbenzene
Concen: 49.480 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 91 Resp: 759407

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.0	33.0



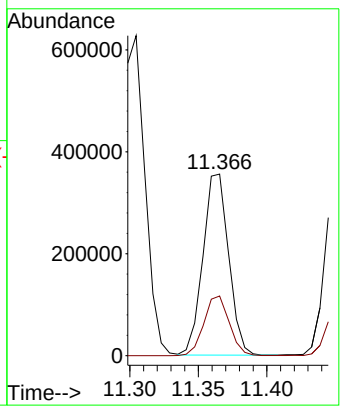


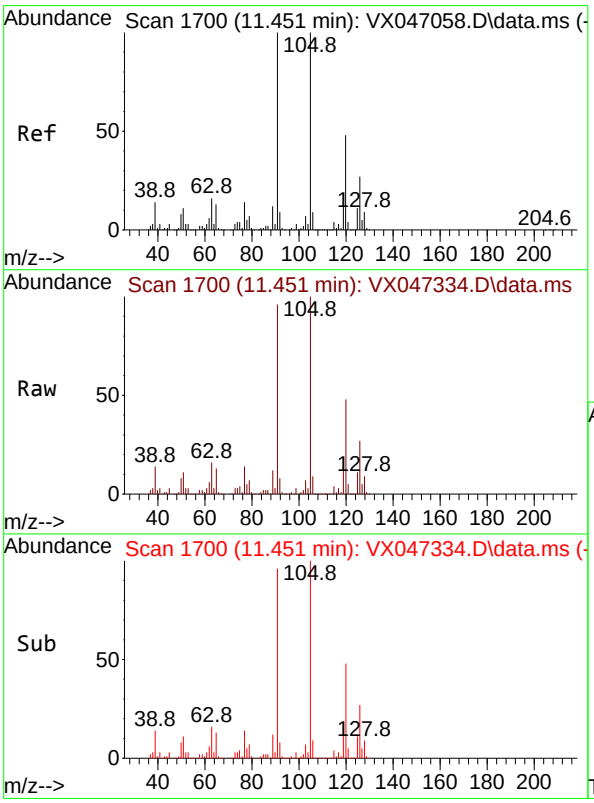
#79
2-Chlorotoluene
Concen: 50.591 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 464143

Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.4	49.4

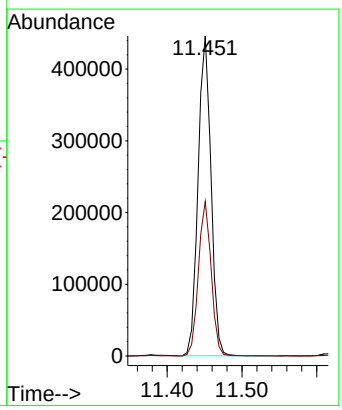


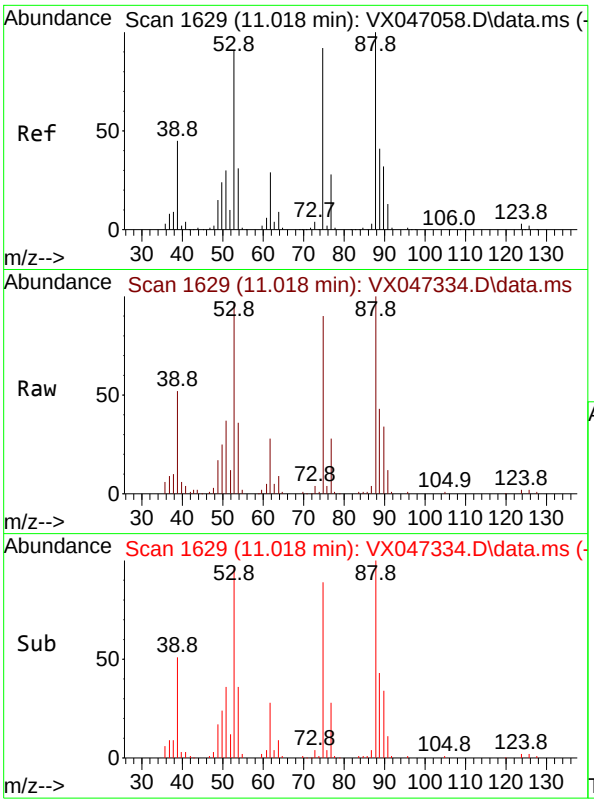


#80
1,3,5-Trimethylbenzene
Concen: 50.457 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:105 Resp: 535382

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.8	71.5



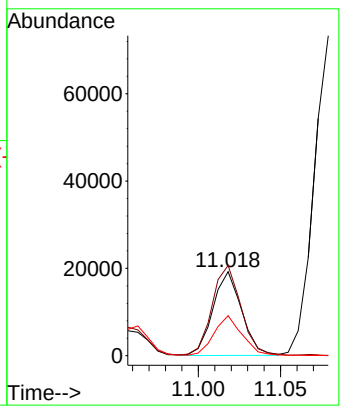


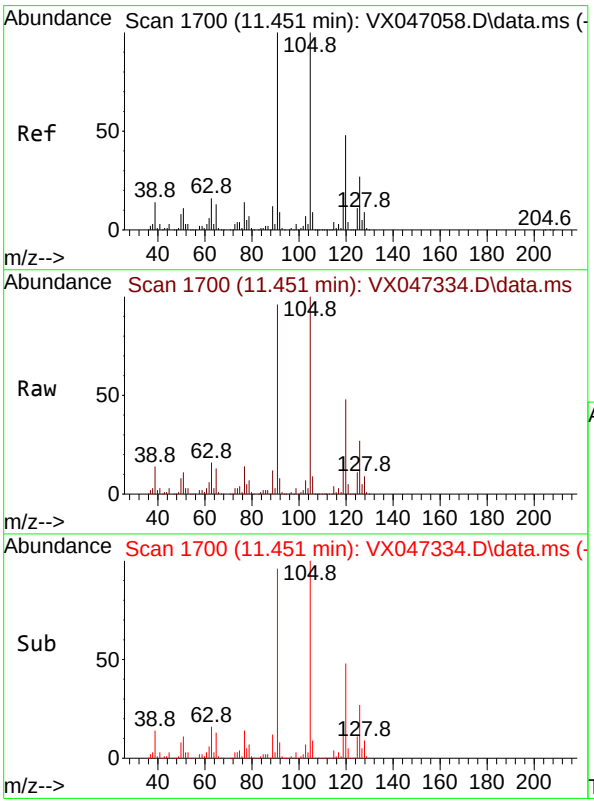
#81
trans-1,4-Dichloro-2-butene
Concen: 19.947 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 23329

Ion	Ratio	Lower	Upper
75	100		
53	106.7	84.2	126.4
89	47.5	36.0	54.0

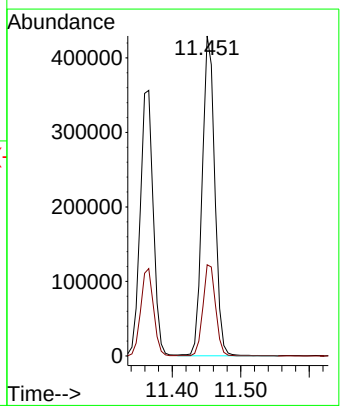


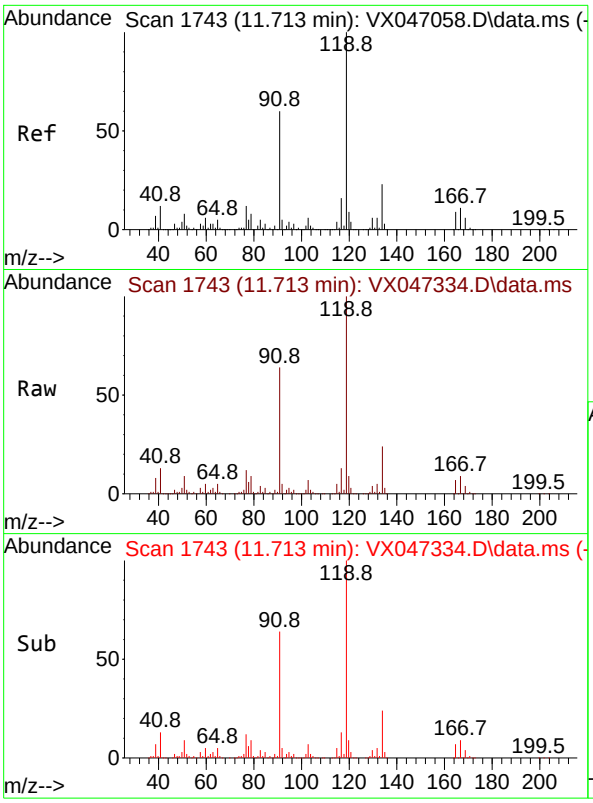


#82
4-Chlorotoluene
Concen: 51.133 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 91 Resp: 547556

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.1	42.3



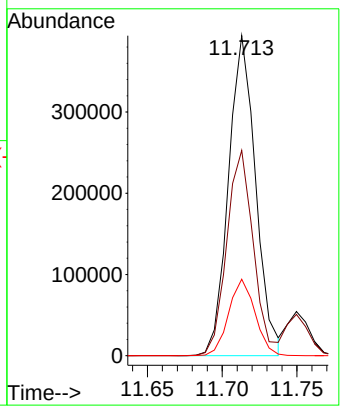


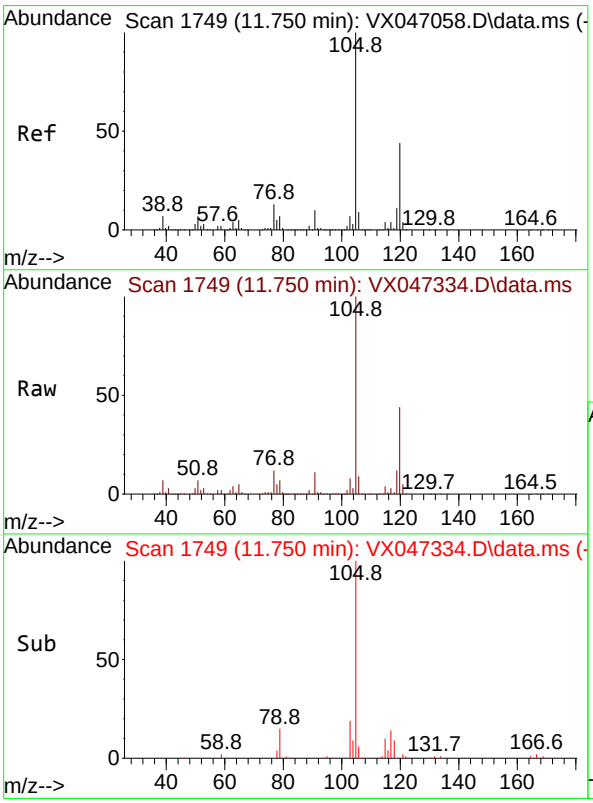
#83
tert-Butylbenzene
Concen: 46.723 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 497590

Ion	Ratio	Lower	Upper
119	100		
91	63.2	29.6	88.8
134	23.3	11.4	34.1

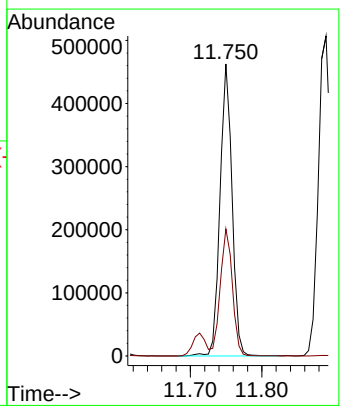


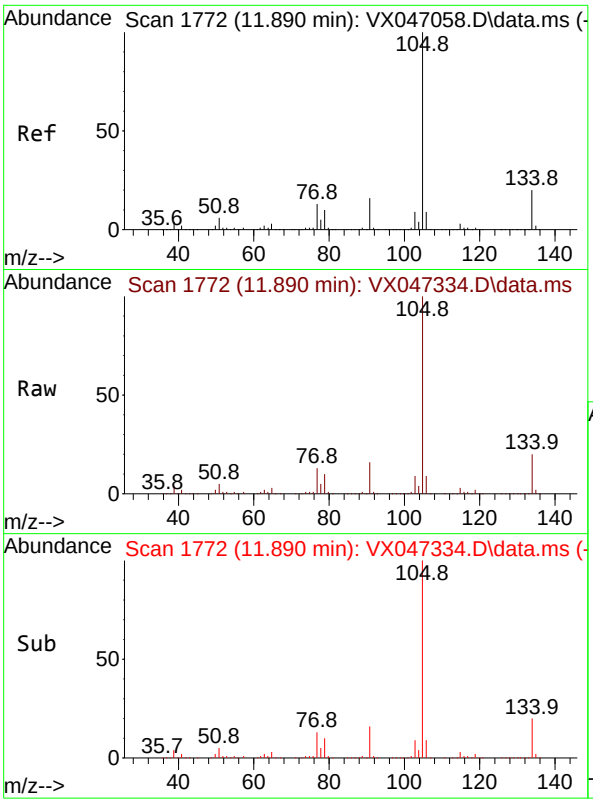


#84
1,2,4-Trimethylbenzene
Concen: 51.202 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:105 Resp: 541887

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.0	66.0



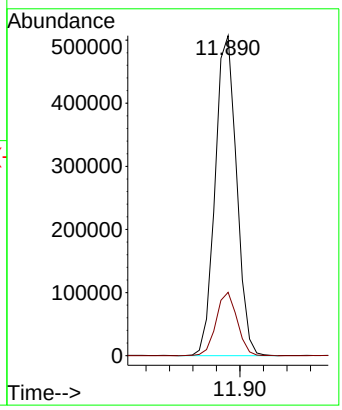


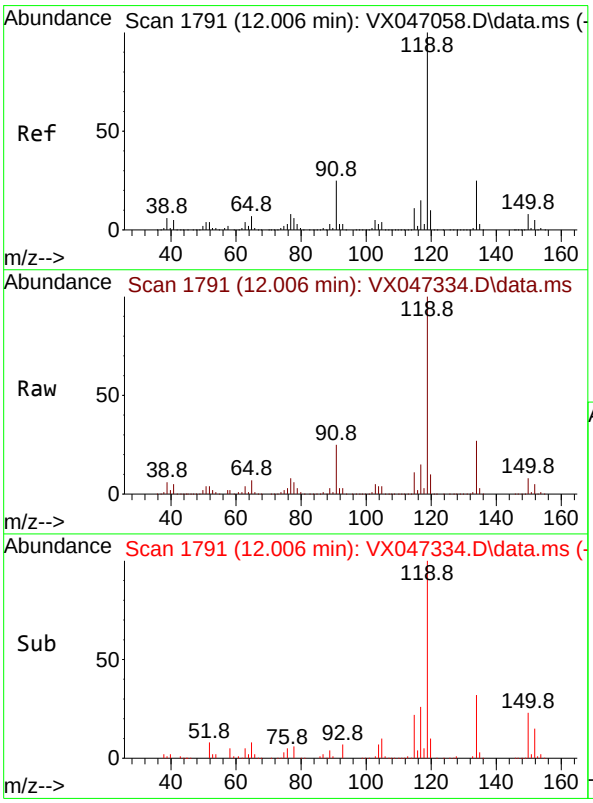
#85
sec-Butylbenzene
Concen: 48.296 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 642655

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.9	29.7

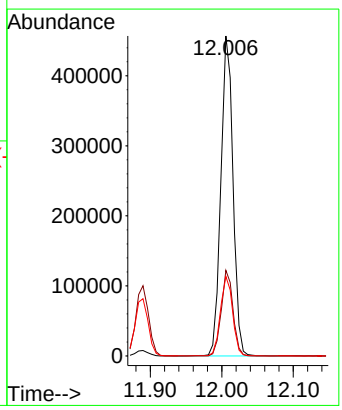


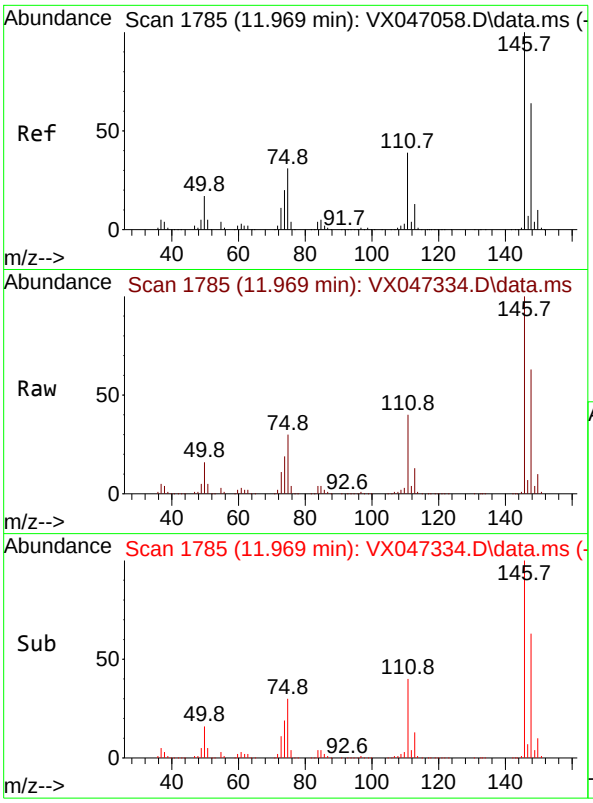


#86
p-Isopropyltoluene
Concen: 48.913 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:119 Resp: 539743

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.8	38.4
91	24.9	12.4	37.4



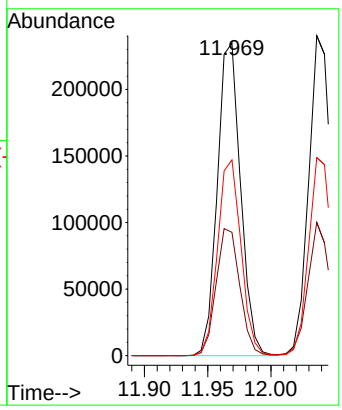


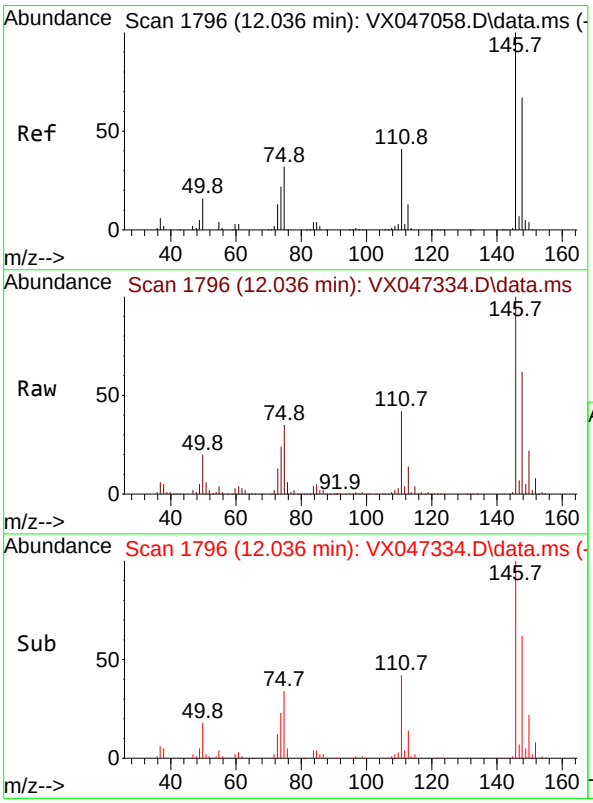
#87
1,3-Dichlorobenzene
Concen: 51.283 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 300174

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.0	63.0
148	63.2	32.0	96.0

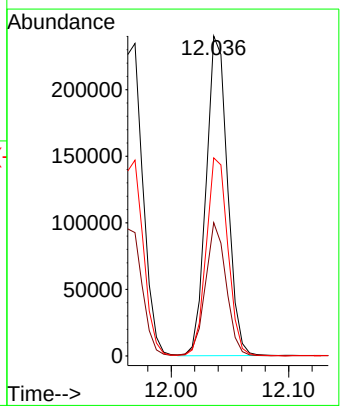


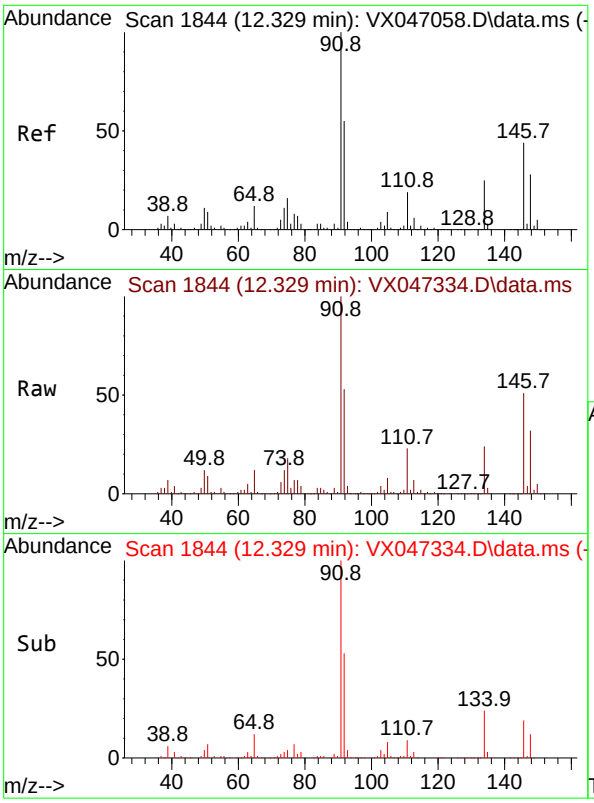


#88
1,4-Dichlorobenzene
Concen: 50.953 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:146 Resp: 302162

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.6	61.9
148	63.4	33.0	98.9



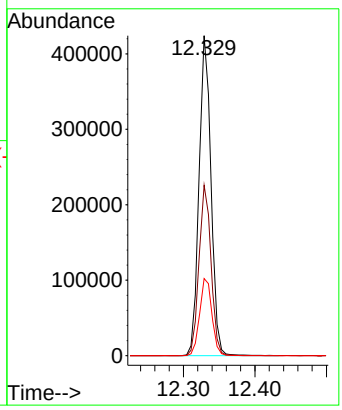


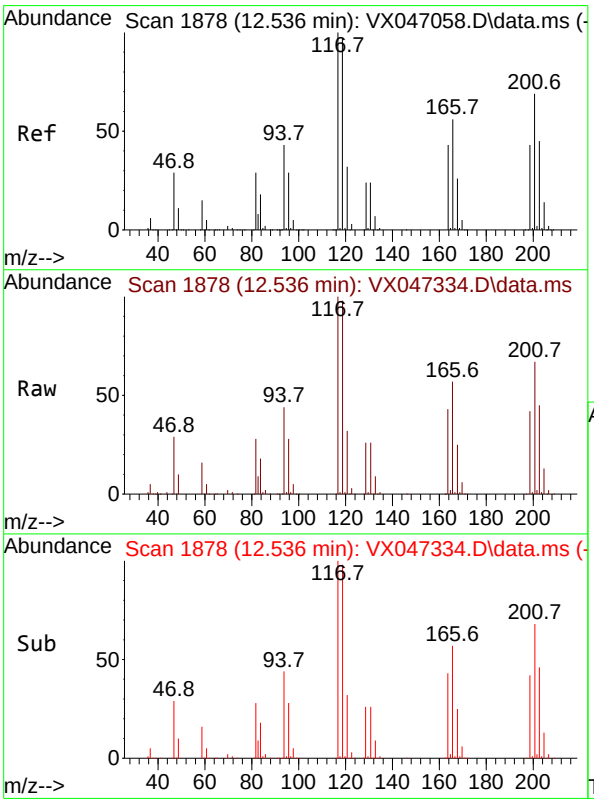
#89
n-Butylbenzene
Concen: 47.494 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 491481

Ion	Ratio	Lower	Upper
91	100		
92	53.7	27.5	82.5
134	24.9	12.8	38.3

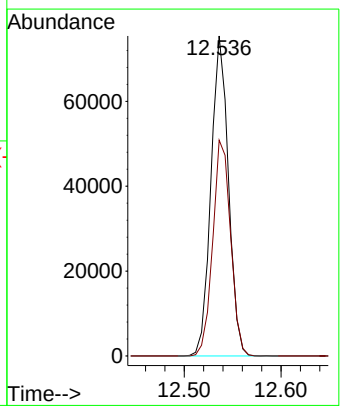


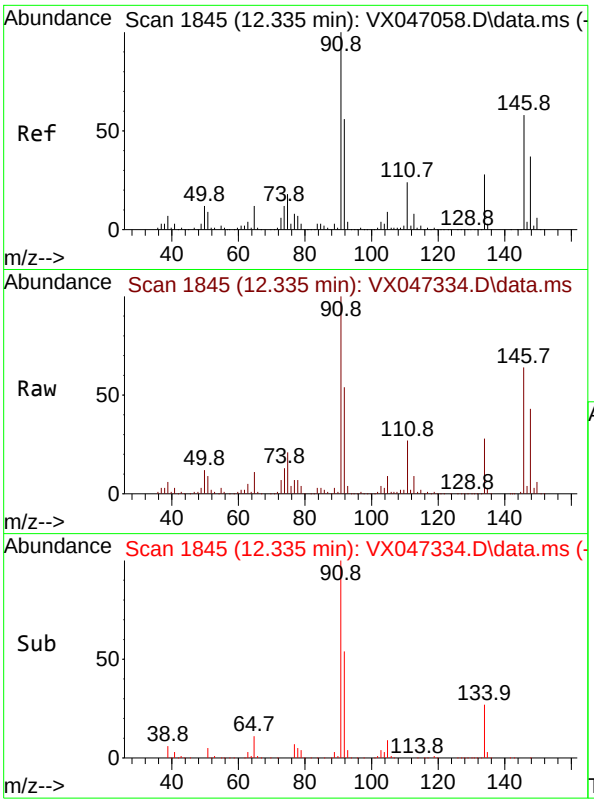


#90
Hexachloroethane
Concen: 47.815 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:117 Resp: 94390

Ion	Ratio	Lower	Upper
117	100		
201	69.0	34.8	104.5



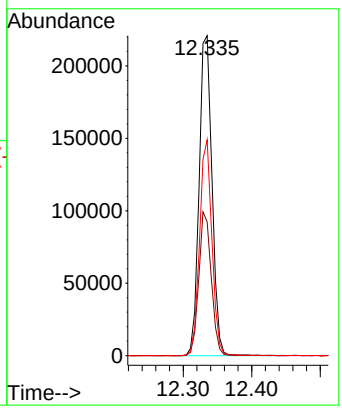


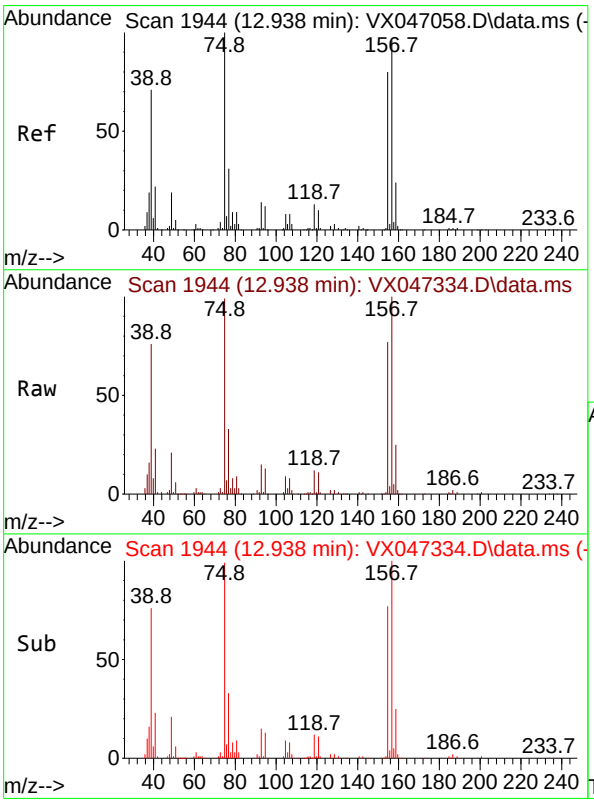
#91
1,2-Dichlorobenzene
Concen: 51.730 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 289391

Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.6	64.6
148	64.6	31.9	95.7

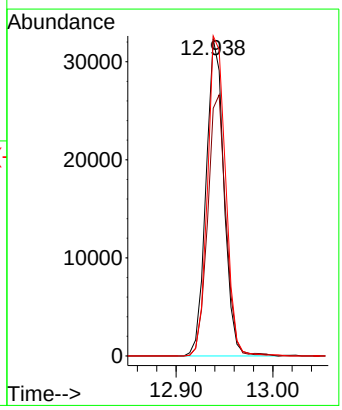


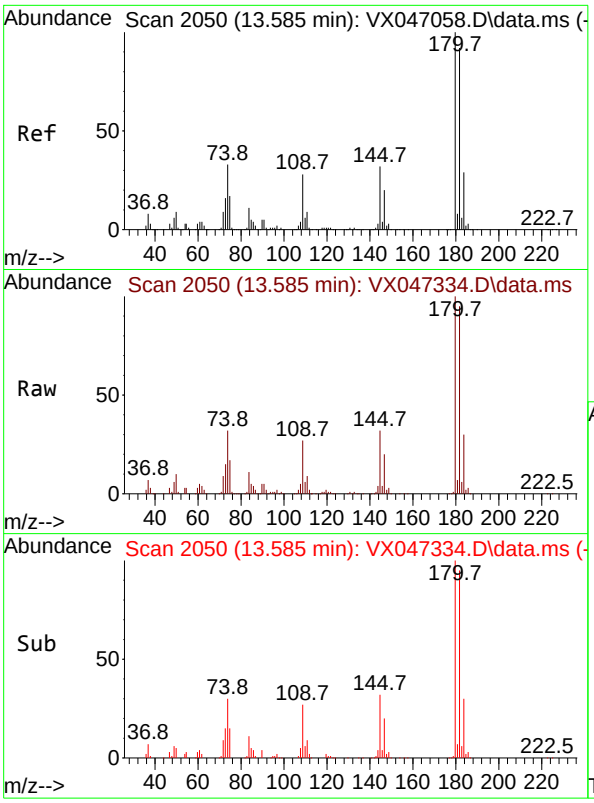


#92
1,2-Dibromo-3-Chloropropane
Concen: 59.218 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion: 75 Resp: 41702

Ion	Ratio	Lower	Upper
75	100		
155	84.0	41.3	124.1
157	101.9	52.8	158.3



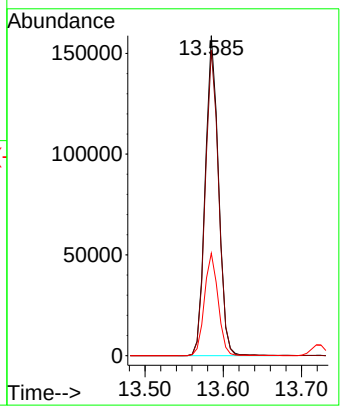


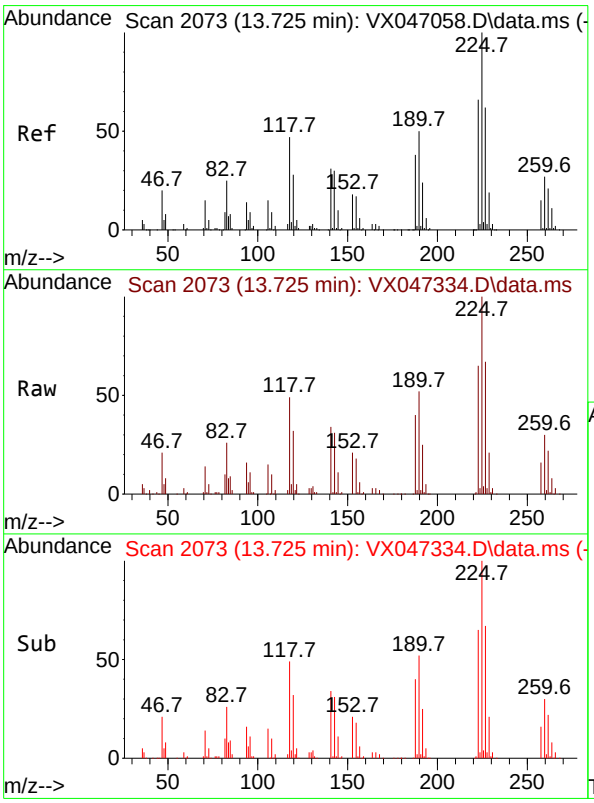
#93
1,2,4-Trichlorobenzene
Concen: 50.374 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 186188

Ion	Ratio	Lower	Upper
180	100		
182	96.1	47.3	141.8
145	32.9	16.4	49.1

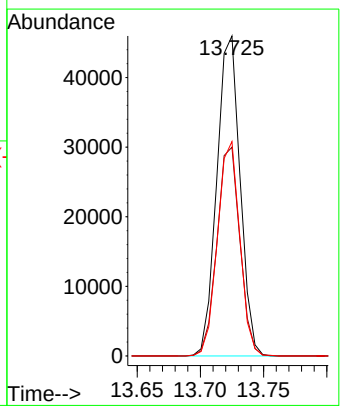


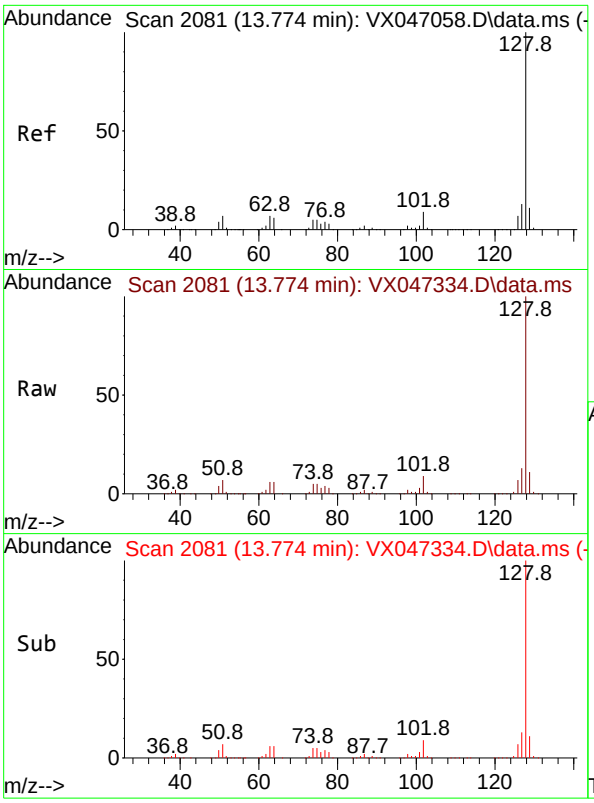


#94
Hexachlorobutadiene
Concen: 46.730 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:225 Resp: 58740

Ion	Ratio	Lower	Upper
225	100		
223	64.5	31.6	95.0
227	64.2	32.9	98.6



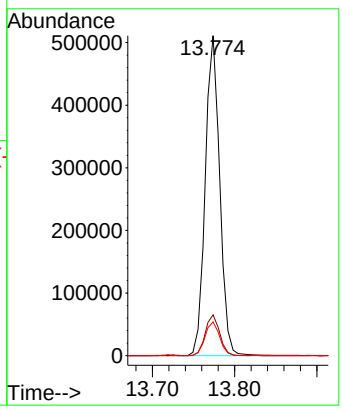


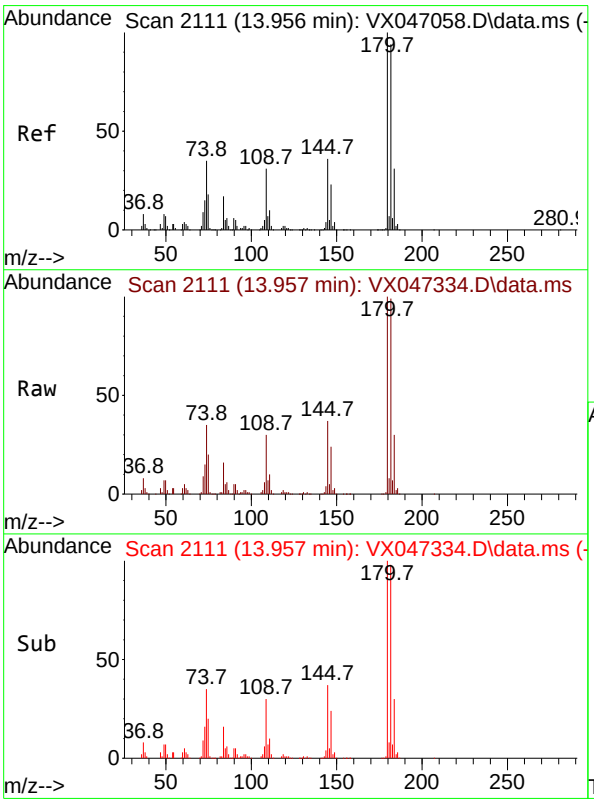
#95
Naphthalene
Concen: 57.649 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 624659

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	10.8	8.6	13.0

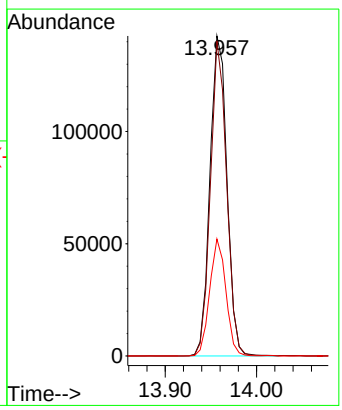




#96
1,2,3-Trichlorobenzene
Concen: 51.589 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047334.D
Acq: 13 Aug 2025 19:50

Tgt Ion:180 Resp: 183699

Ion	Ratio	Lower	Upper
180	100		
182	94.0	46.9	140.6
145	34.9	17.3	52.0



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	269622	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	444434	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	389564	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	190181	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	186066	49.309	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.620%			
35) Dibromofluoromethane	5.397	113	149242	51.741	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.480%			
50) Toluene-d8	8.647	98	510697	49.536	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.080%			
62) 4-Bromofluorobenzene	11.079	95	188302	49.495	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	183604	53.419	ug/l	99
3) Chloromethane	1.307	50	172140	55.674	ug/l	98
4) Vinyl Chloride	1.392	62	193962	49.979	ug/l	89
5) Bromomethane	1.624	94	66879	42.665	ug/l	94
6) Chloroethane	1.703	64	121687	51.248	ug/l	92
7) Trichlorofluoromethane	1.904	101	285927	49.809	ug/l	99
8) Diethyl Ether	2.148	74	98695	48.828	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.349	101	170115	51.087	ug/l	98
10) Methyl Iodide	2.471	142	230213	40.343	ug/l	97
11) Tert butyl alcohol	2.959	59	79871	243.310	ug/l	99
12) 1,1-Dichloroethene	2.337	96	166109	48.931	ug/l	100
13) Acrolein	2.245	56	97377	140.523	ug/l	100
14) Allyl chloride	2.678	41	273602	46.403	ug/l	97
15) Acrylonitrile	3.081	53	391108	246.561	ug/l	100
16) Acetone	2.392	43	342152	241.230	ug/l	98
17) Carbon Disulfide	2.526	76	515723	50.344	ug/l	99
18) Methyl Acetate	2.715	43	181273	49.319	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	496038	48.031	ug/l	99
20) Methylene Chloride	2.800	84	177230	47.188	ug/l	99
21) trans-1,2-Dichloroethene	3.105	96	170589	47.345	ug/l	98
22) Diisopropyl ether	3.769	45	566100	48.571	ug/l	96
23) Vinyl Acetate	3.733	43	2308563	241.659	ug/l	100
24) 1,1-Dichloroethane	3.623	63	317338	48.171	ug/l	98
25) 2-Butanone	4.562	43	445204	239.666	ug/l	99
26) 2,2-Dichloropropane	4.489	77	233509	46.963	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	195846	46.668	ug/l	99
28) Bromochloromethane	4.903	49	144569	52.737	ug/l	98
29) Tetrahydrofuran	5.019	42	275691	229.620	ug/l	99
30) Chloroform	5.099	83	315459	46.921	ug/l	96
31) Cyclohexane	5.477	56	280615	46.209	ug/l	95
32) 1,1,1-Trichloroethane	5.391	97	276215	47.731	ug/l	99
36) 1,1-Dichloropropene	5.702	75	216239	47.491	ug/l	98
37) Ethyl Acetate	4.714	43	232054	49.091	ug/l	98
38) Carbon Tetrachloride	5.684	117	243389	48.915	ug/l	98
39) Methylcyclohexane	7.385	83	268330	47.245	ug/l	95
40) Benzene	6.043	78	653043	47.917	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	95846	48.083	ug/l		96
42) 1,2-Dichloroethane	6.092	62	228939	47.424	ug/l		99
43) Isopropyl Acetate	6.342	43	323127	47.583	ug/l		100
44) Trichloroethene	7.129	130	162678	46.616	ug/l		100
45) 1,2-Dichloropropane	7.433	63	163590	47.913	ug/l		99
46) Dibromomethane	7.580	93	117704	47.485	ug/l		99
47) Bromodichloromethane	7.824	83	247713	48.205	ug/l		99
48) Methyl methacrylate	7.696	41	166270	47.171	ug/l		99
49) 1,4-Dioxane	7.683	88	34744	1013.952	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	952145	243.653	ug/l		98
52) Toluene	8.720	92	400051	47.503	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	221043	49.287	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	244614	48.187	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	151070	47.246	ug/l		97
56) Ethyl methacrylate	9.116	69	224978	47.723	ug/l		99
57) 1,3-Dichloropropane	9.305	76	255427	46.880	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	514434	229.244	ug/l		99
59) 2-Hexanone	9.427	43	643715	238.139	ug/l		100
60) Dibromochloromethane	9.518	129	180536	47.510	ug/l		98
61) 1,2-Dibromoethane	9.610	107	152751	46.327	ug/l		99
64) Tetrachloroethene	9.275	164	135984	48.259	ug/l		99
65) Chlorobenzene	10.079	112	439867	47.514	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	151414	48.384	ug/l		99
67) Ethyl Benzene	10.189	91	766794	48.124	ug/l		100
68) m/p-Xylenes	10.299	106	572388	96.341	ug/l		99
69) o-Xylene	10.640	106	275968	48.267	ug/l		99
70) Styrene	10.652	104	478038	49.483	ug/l		100
71) Bromoform	10.799	173	115849	49.276	ug/l	#	99
73) Isopropylbenzene	10.957	105	723706	48.628	ug/l		99
74) N-amyl acetate	10.841	43	278569	49.291	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	209247	47.887	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	184098	52.778	ug/l		91
77) Bromobenzene	11.195	156	171756	47.261	ug/l		98
78) n-propylbenzene	11.299	91	869019	48.892	ug/l		100
79) 2-Chlorotoluene	11.360	91	503902	46.898	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	590722	48.241	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	24594	33.692	ug/l		99
82) 4-Chlorotoluene	11.451	91	597497	47.174	ug/l		100
83) tert-Butylbenzene	11.713	119	596984	48.866	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	592440	48.380	ug/l		100
85) sec-Butylbenzene	11.890	105	735112	48.547	ug/l		100
86) p-Isopropyltoluene	12.006	119	618942	48.304	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	325052	46.819	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	326917	45.783	ug/l		99
89) n-Butylbenzene	12.329	91	569584	47.792	ug/l		100
90) Hexachloroethane	12.536	117	108936	48.462	ug/l		99
91) 1,2-Dichlorobenzene	12.329	146	311081	47.206	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	39921	47.241	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	202922	45.933	ug/l		99
94) Hexachlorobutadiene	13.719	225	65173	41.446	ug/l		99
95) Naphthalene	13.774	128	605337	47.948	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	195721	47.001	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

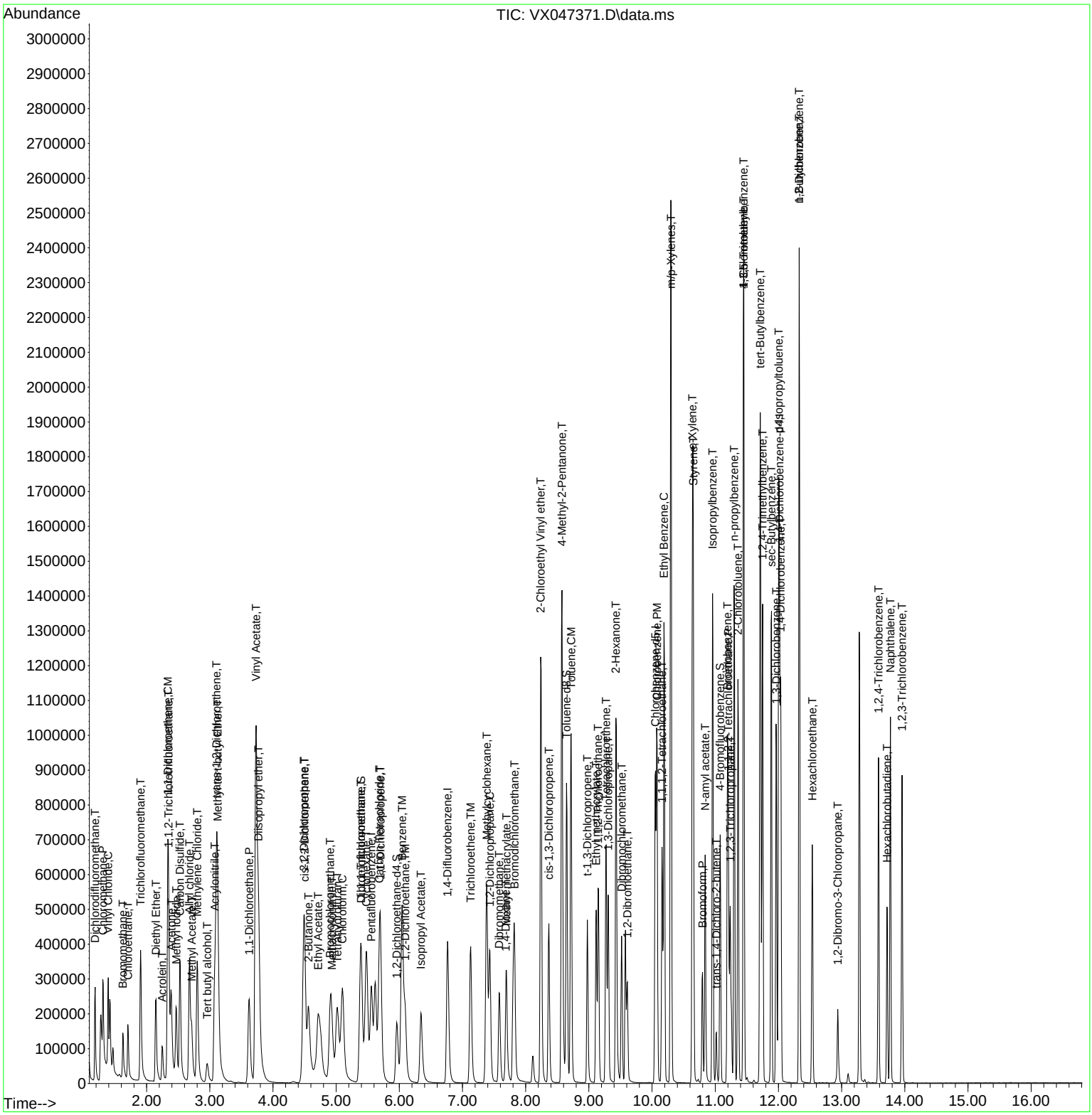
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

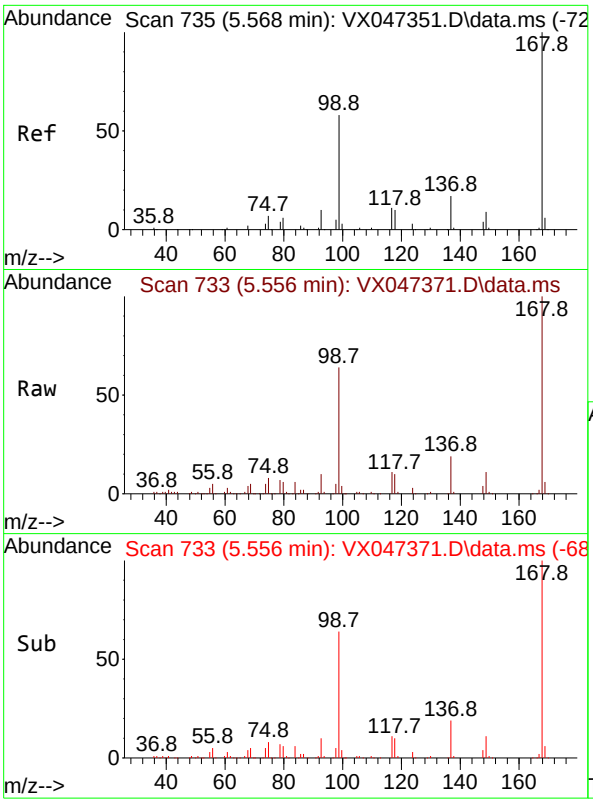
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047371.D
Acq On : 18 Aug 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 19 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



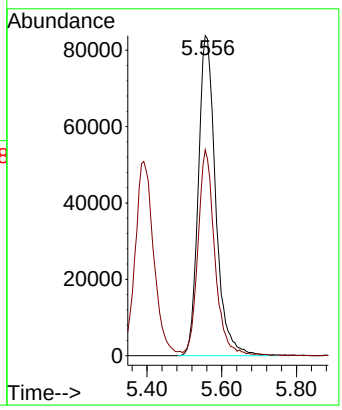


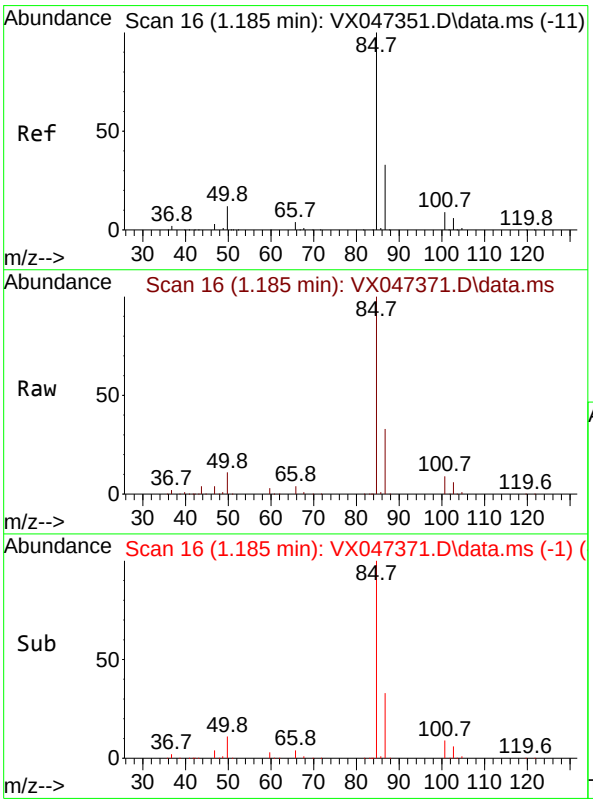
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 269622

Ion	Ratio	Lower	Upper
168	100		
99	64.2	47.9	71.9

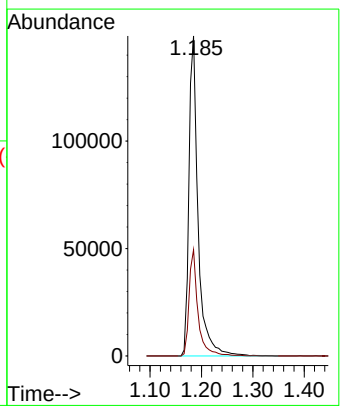


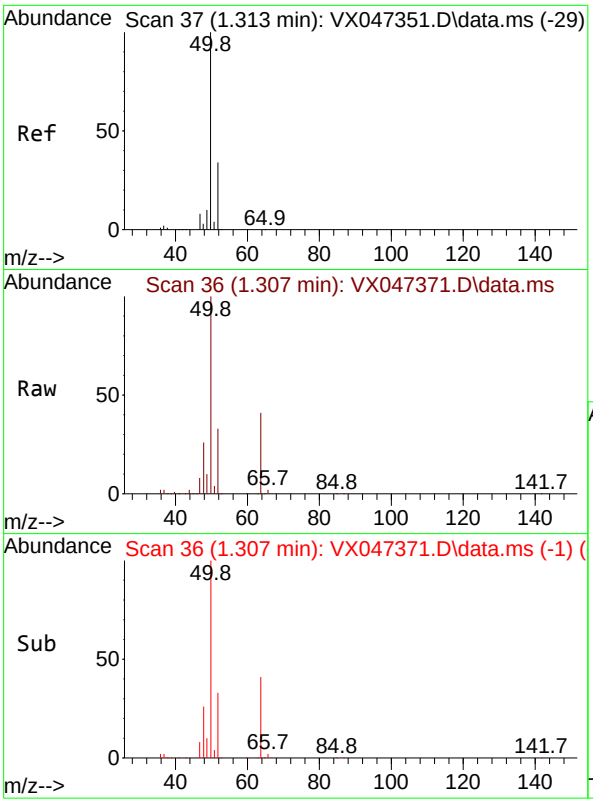


#2
Dichlorodifluoromethane
Concen: 53.419 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 85 Resp: 183604

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.4	49.1



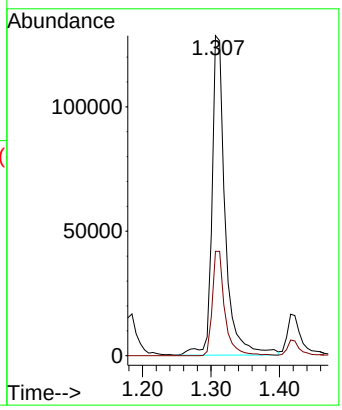


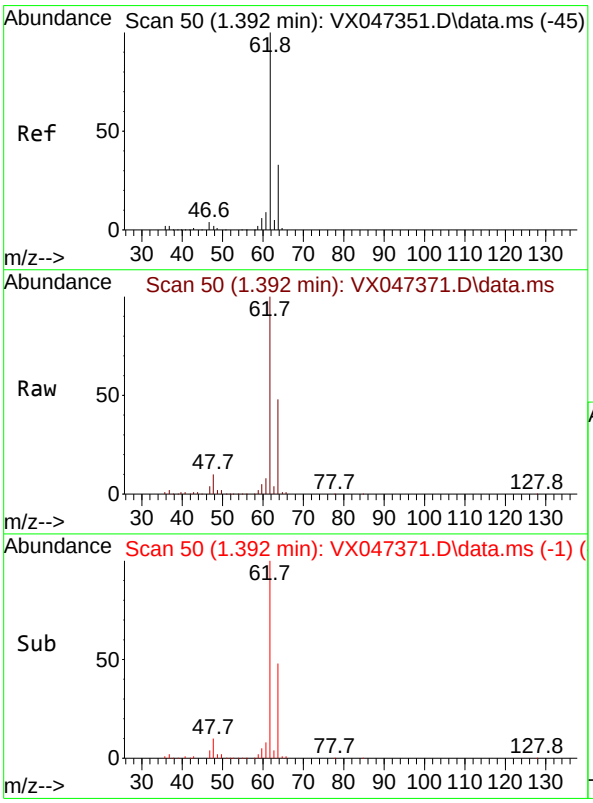
#3
Chloromethane
Concen: 55.674 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 172140

Ion	Ratio	Lower	Upper
50	100		
52	32.7	27.0	40.4

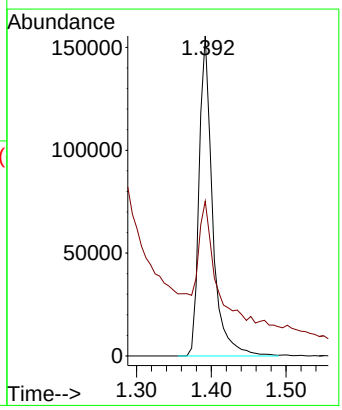


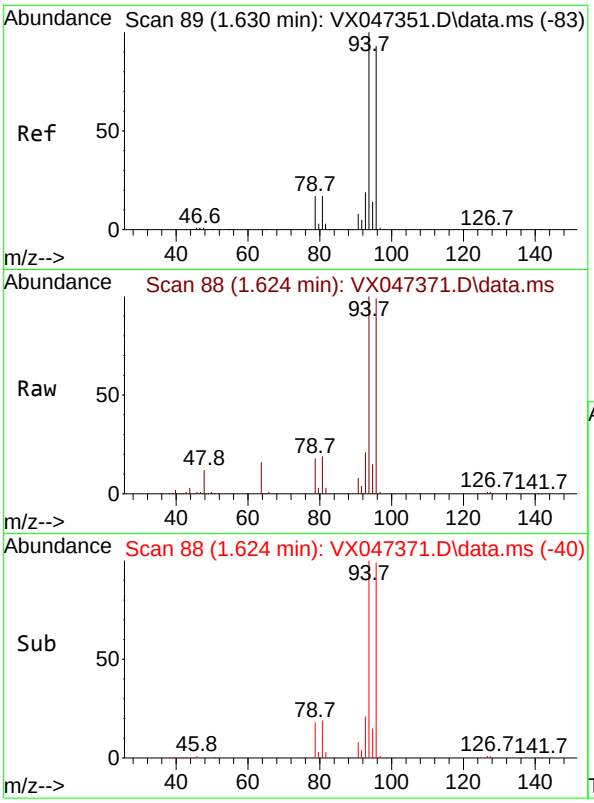


#4
Vinyl Chloride
Concen: 49.979 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 62 Resp: 193962

Ion	Ratio	Lower	Upper
62	100		
64	39.3	26.5	39.7



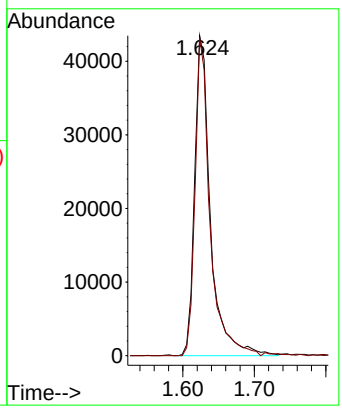


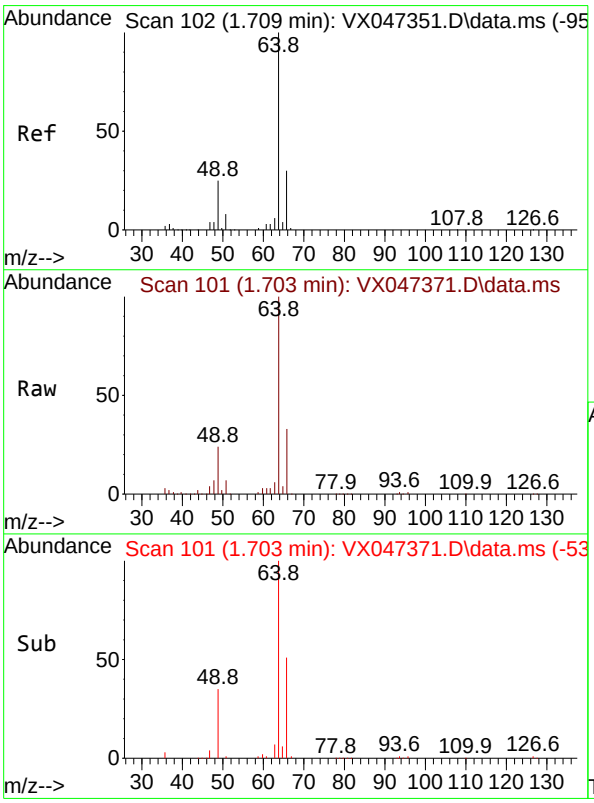
#5
Bromomethane
Concen: 42.665 ug/l
RT: 1.624 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 66879

Ion	Ratio	Lower	Upper
94	100		
96	99.4	74.7	112.1

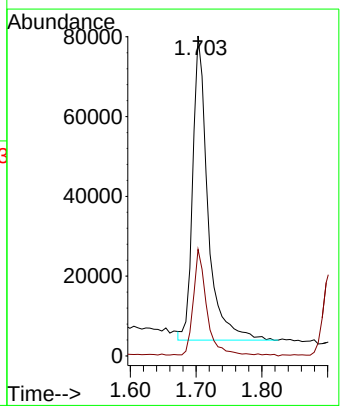


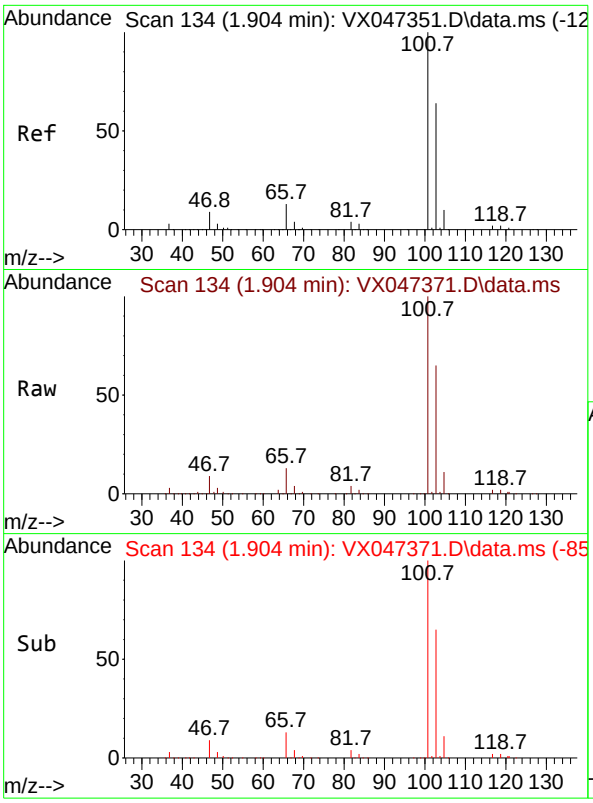


#6
Chloroethane
Concen: 51.248 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 64 Resp: 121687

Ion	Ratio	Lower	Upper
64	100		
66	35.1	24.4	36.6



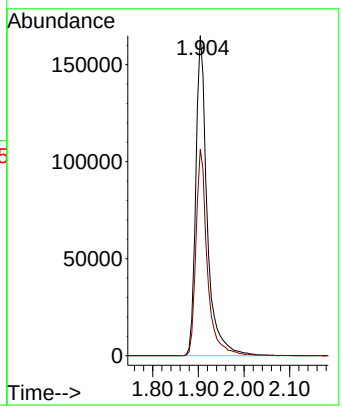


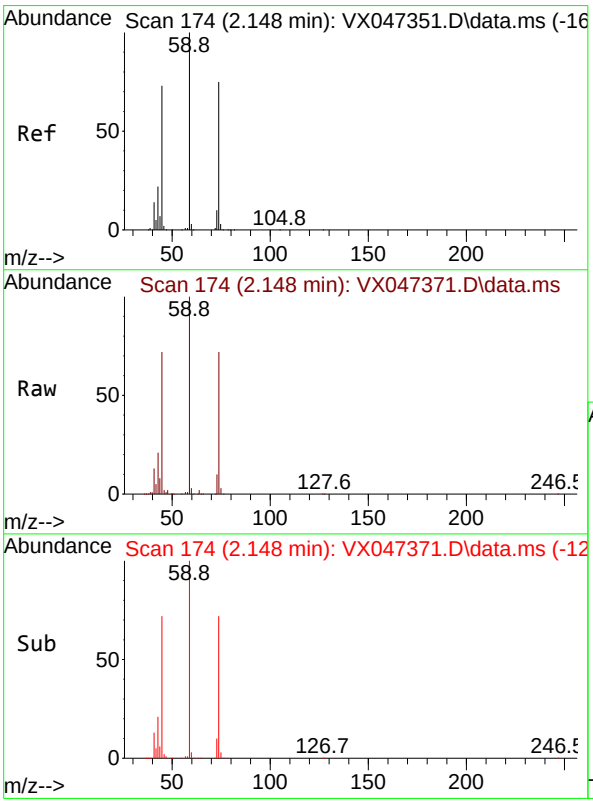
#7
Trichlorofluoromethane
Concen: 49.809 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 285927

Ion	Ratio	Lower	Upper
101	100		
103	64.5	50.9	76.3

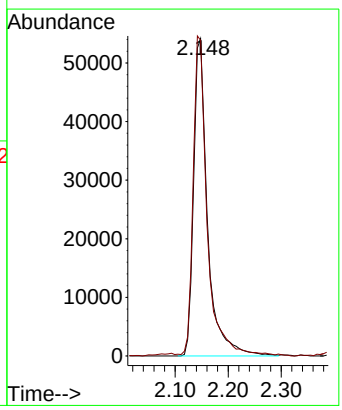


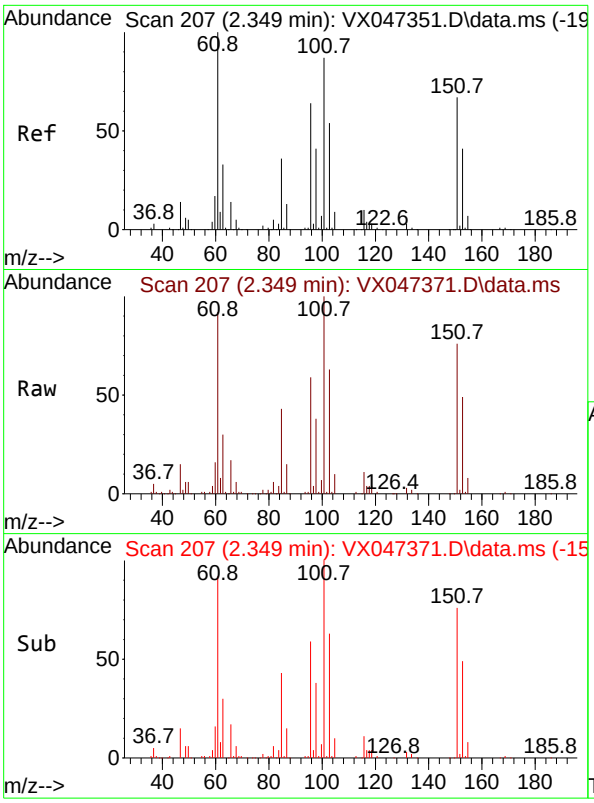


#8
Diethyl Ether
Concen: 48.828 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 74 Resp: 98695

Ion	Ratio	Lower	Upper
74	100		
45	99.9	51.3	154.0



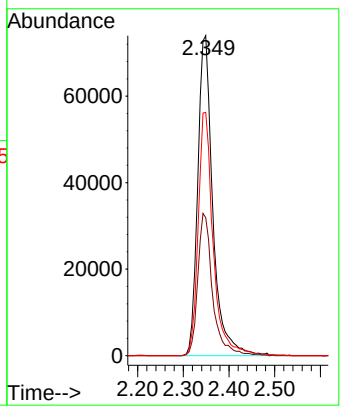


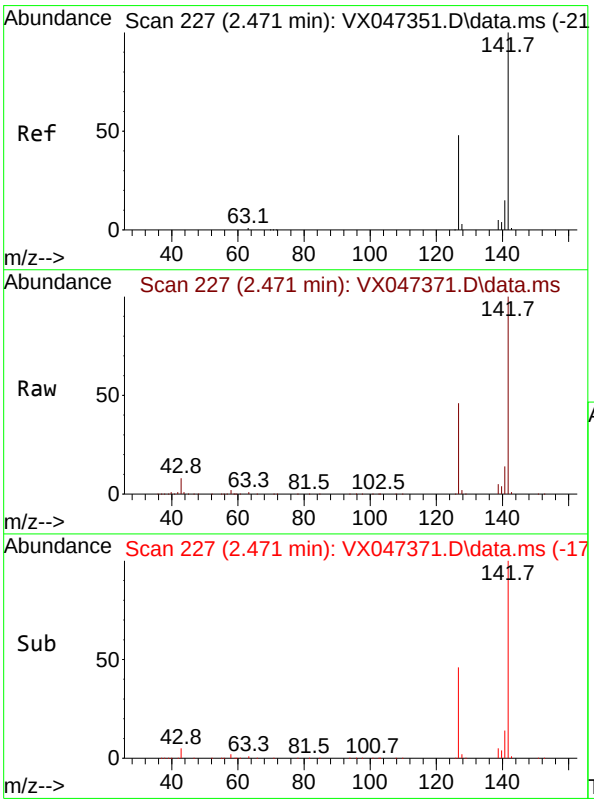
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.087 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 170115

Ion	Ratio	Lower	Upper
101	100		
85	43.7	34.3	51.5
151	75.8	59.2	88.8

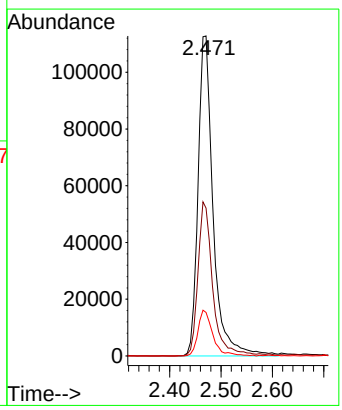


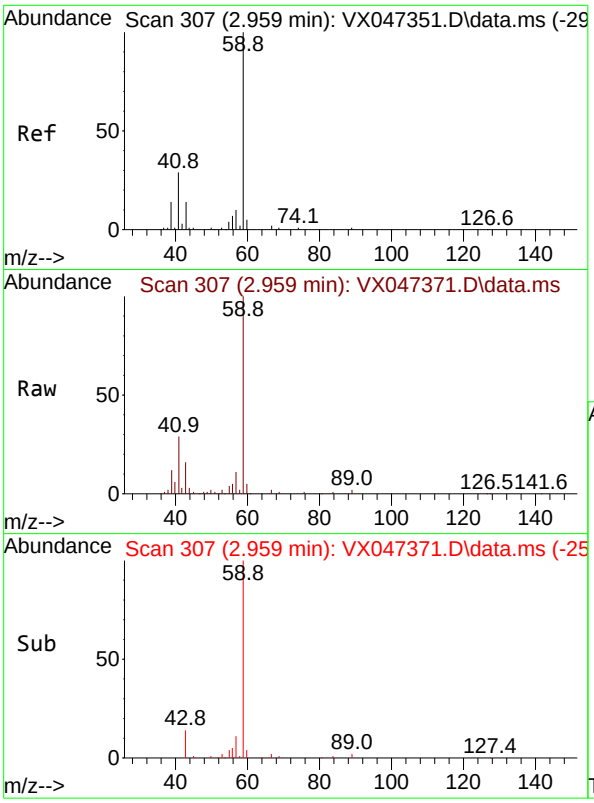


#10
Methyl Iodide
Concen: 40.343 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:142 Resp: 230213

Ion	Ratio	Lower	Upper
142	100		
127	47.2	36.1	54.1
141	14.1	11.1	16.7



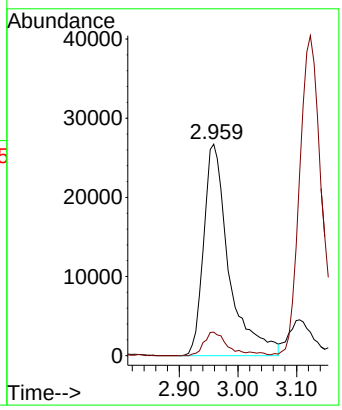


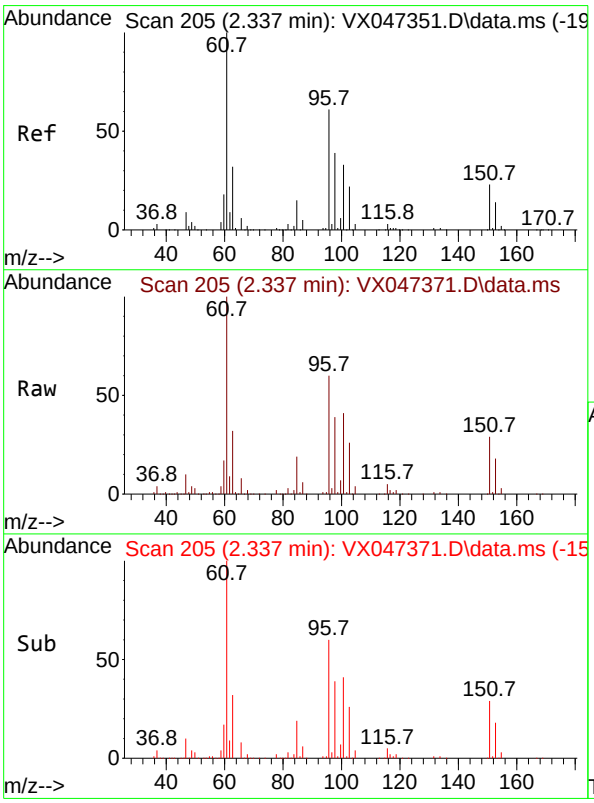
#11
Tert butyl alcohol
Concen: 243.310 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 79871

Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.3	12.5

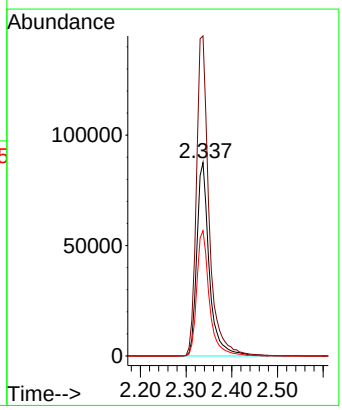


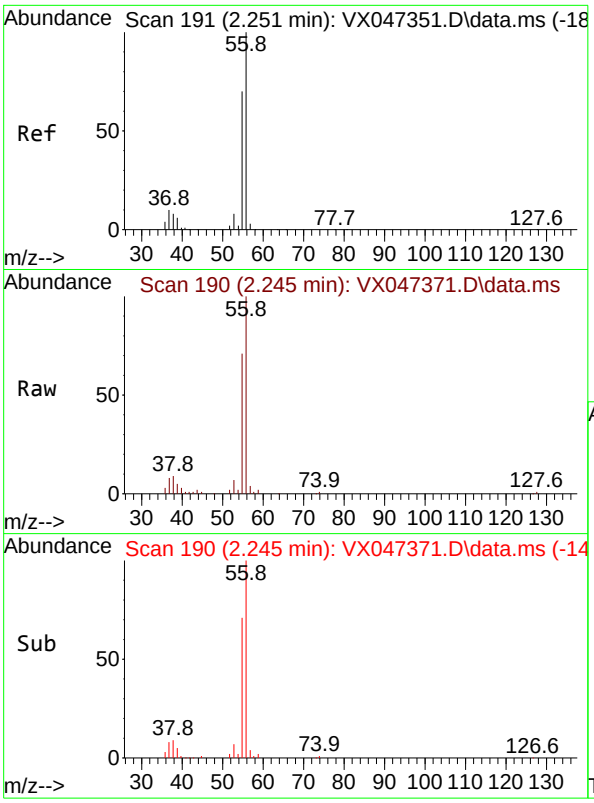


#12
1,1-Dichloroethene
Concen: 48.931 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 96 Resp: 166109

Ion	Ratio	Lower	Upper
96	100		
61	165.5	132.2	198.2
98	64.8	51.2	76.8



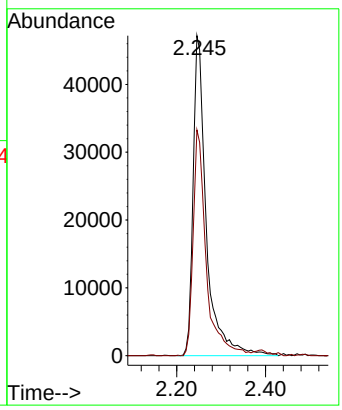


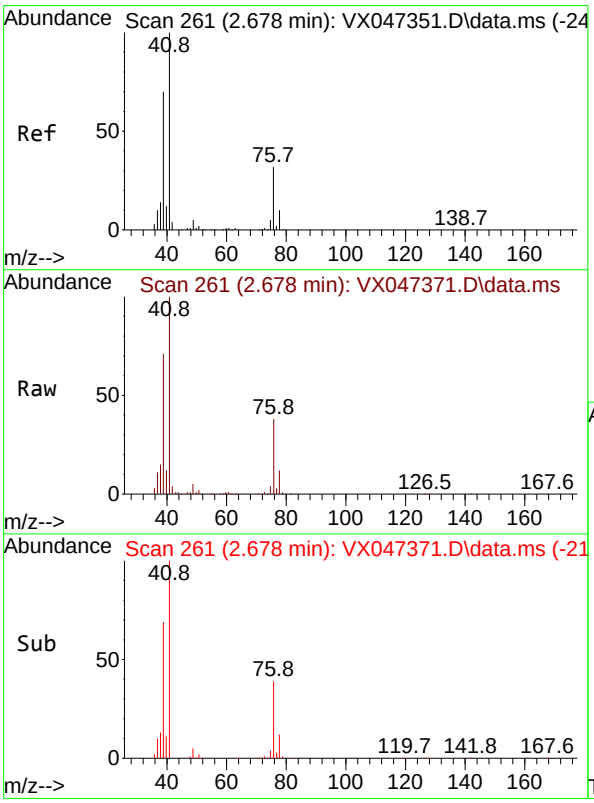
#13
Acrolein
Concen: 140.523 ug/l
RT: 2.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 97377

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.5	83.3

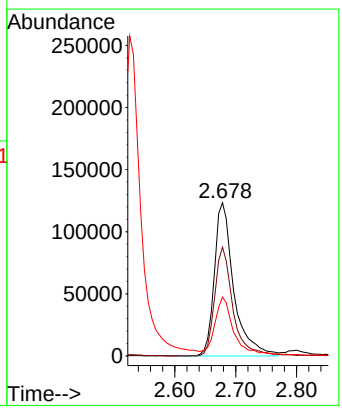


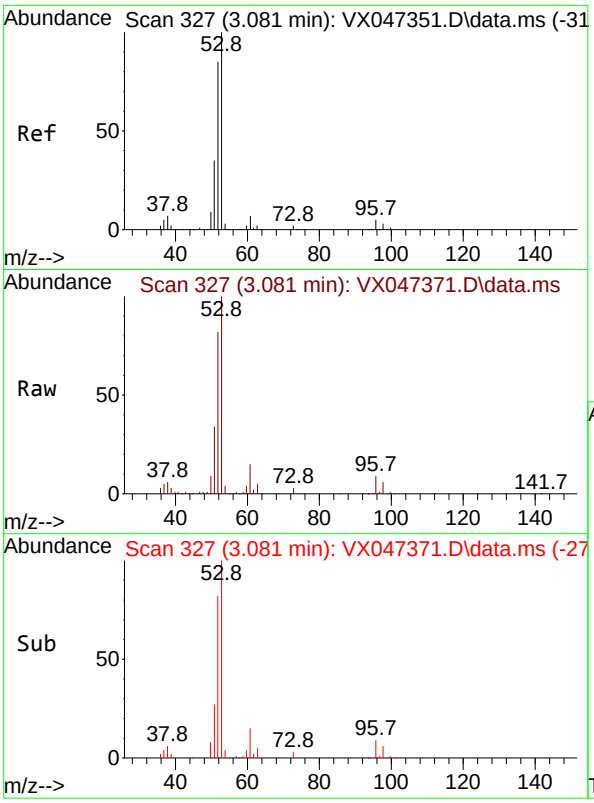


#14
Allyl chloride
Concen: 46.403 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 41 Resp: 273602

Ion	Ratio	Lower	Upper
41	100		
39	67.0	54.6	81.8
76	37.7	27.6	41.4



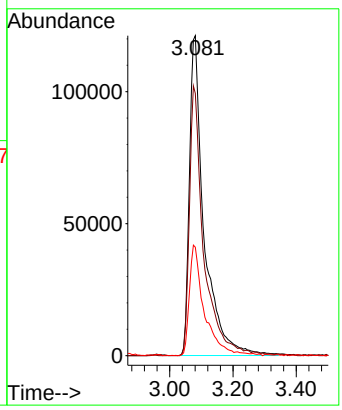


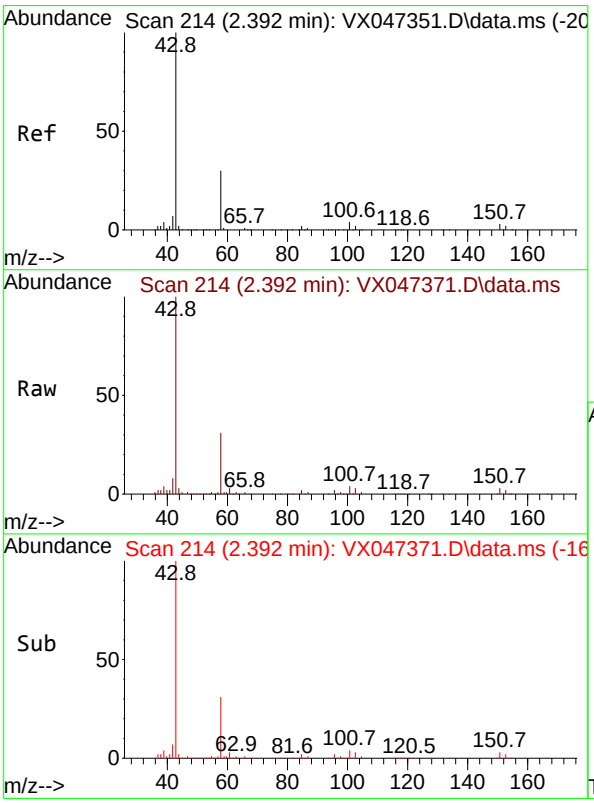
#15
Acrylonitrile
Concen: 246.561 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 391108

Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.8	98.6
51	35.5	28.2	42.2

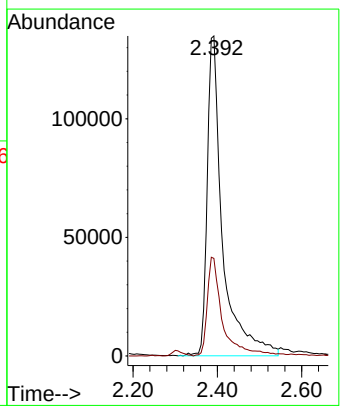


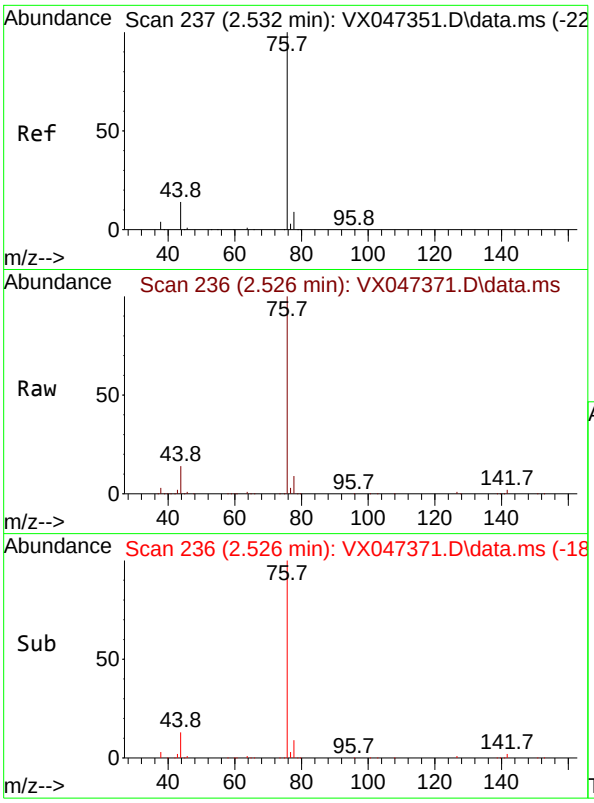


#16
Acetone
Concen: 241.230 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 43 Resp: 342152

Ion	Ratio	Lower	Upper
43	100		
58	29.8	24.8	37.2



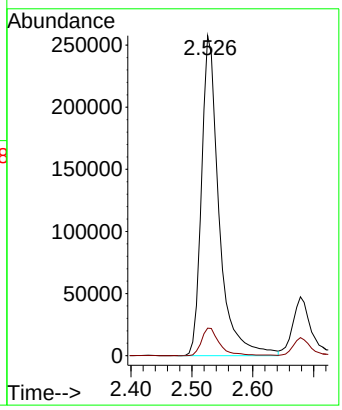


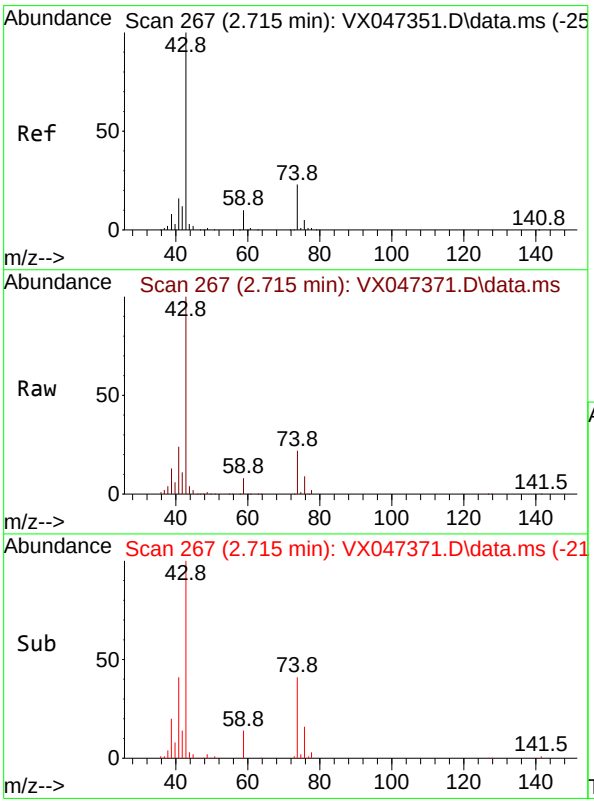
#17
Carbon Disulfide
Concen: 50.344 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 515723

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.2	10.8

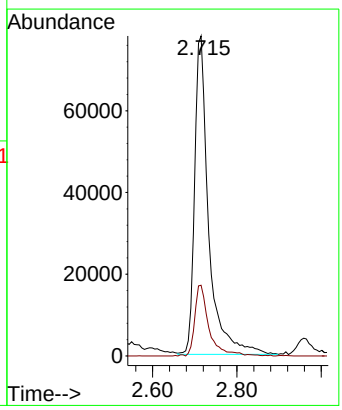


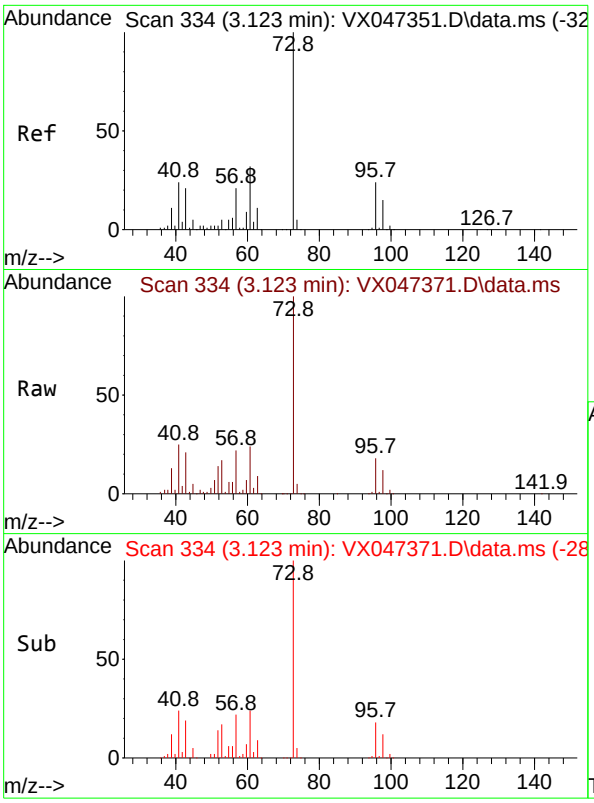


#18
Methyl Acetate
Concen: 49.319 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 43 Resp: 181273

Ion	Ratio	Lower	Upper
43	100		
74	22.6	18.4	27.6



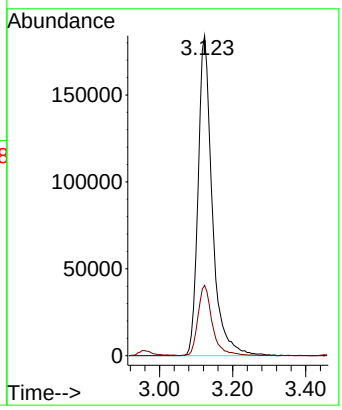


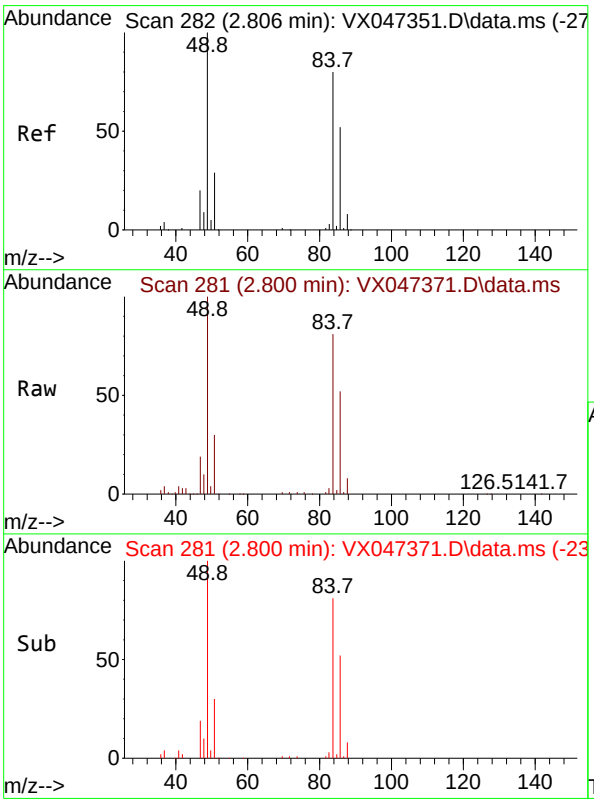
#19
Methyl tert-butyl Ether
Concen: 48.031 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 496038

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.0	25.6

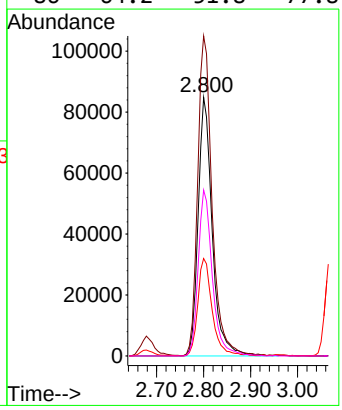


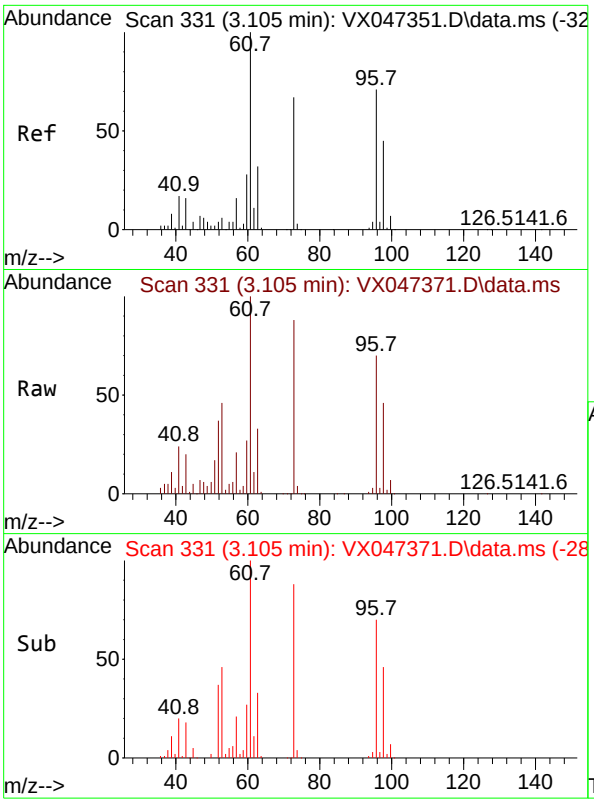


#20
Methylene Chloride
Concen: 47.188 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 84 Resp: 177230

Ion	Ratio	Lower	Upper
84	100		
49	123.5	100.1	150.1
51	37.6	29.5	44.3
86	64.2	51.8	77.8



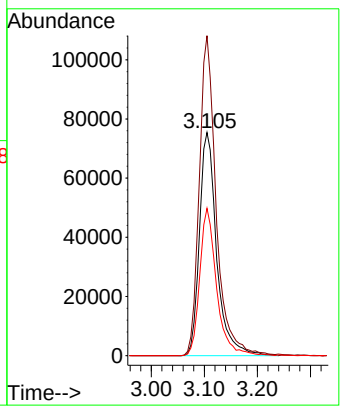


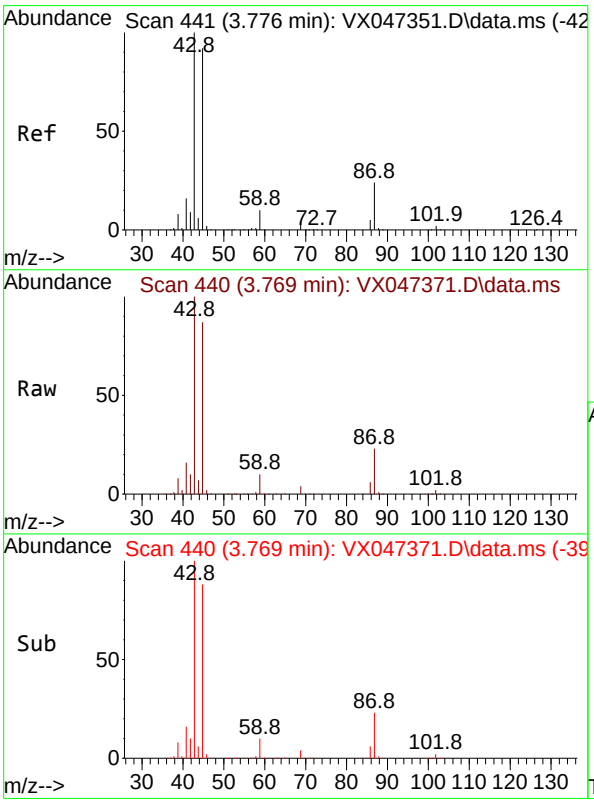
#21
trans-1,2-Dichloroethene
Concen: 47.345 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 170589

Ion	Ratio	Lower	Upper
96	100		
61	143.4	112.6	169.0
98	66.0	50.9	76.3

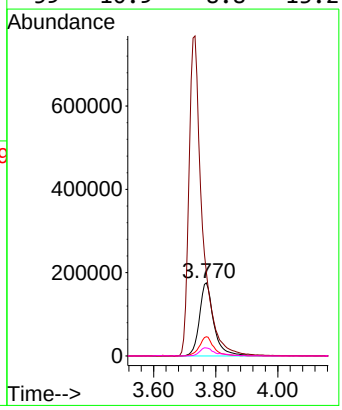


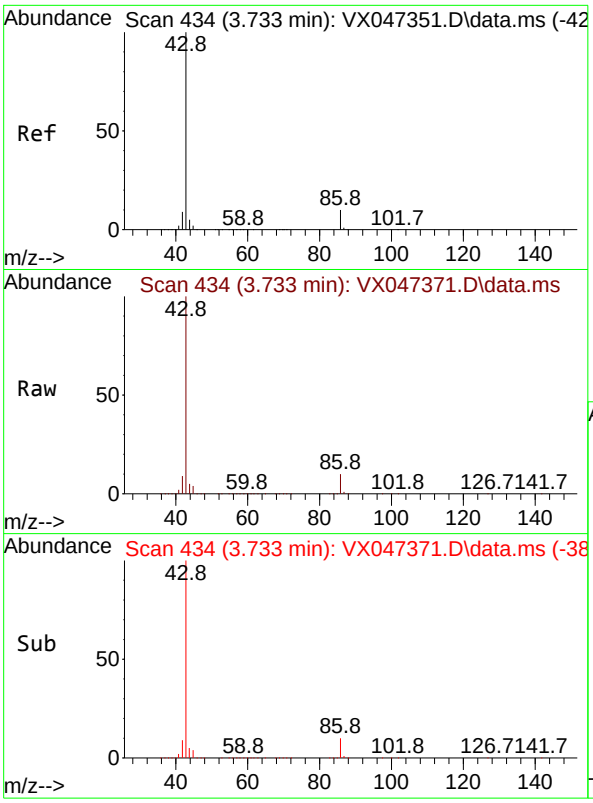


#22
Diisopropyl ether
Concen: 48.571 ug/l
RT: 3.769 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 45 Resp: 566100

Ion	Ratio	Lower	Upper
45	100		
43	114.0	86.8	130.2
87	26.3	20.4	30.6
59	10.9	8.8	13.2



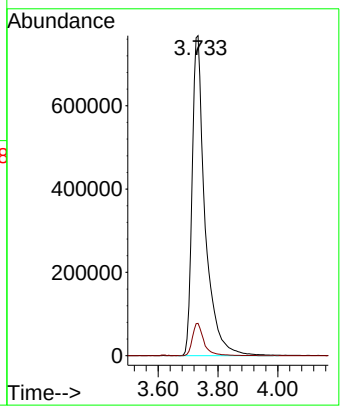


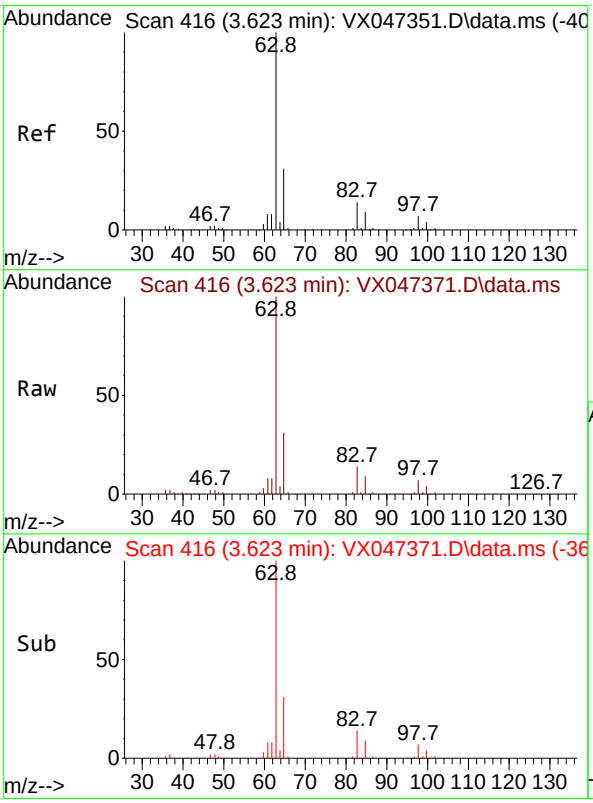
#23
Vinyl Acetate
Concen: 241.659 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2308563

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.9	11.9

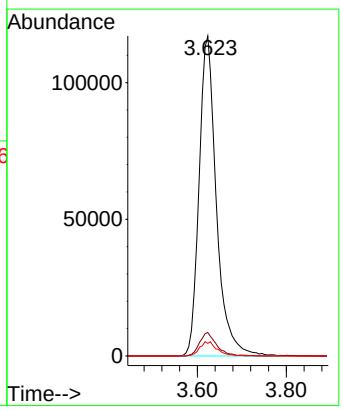


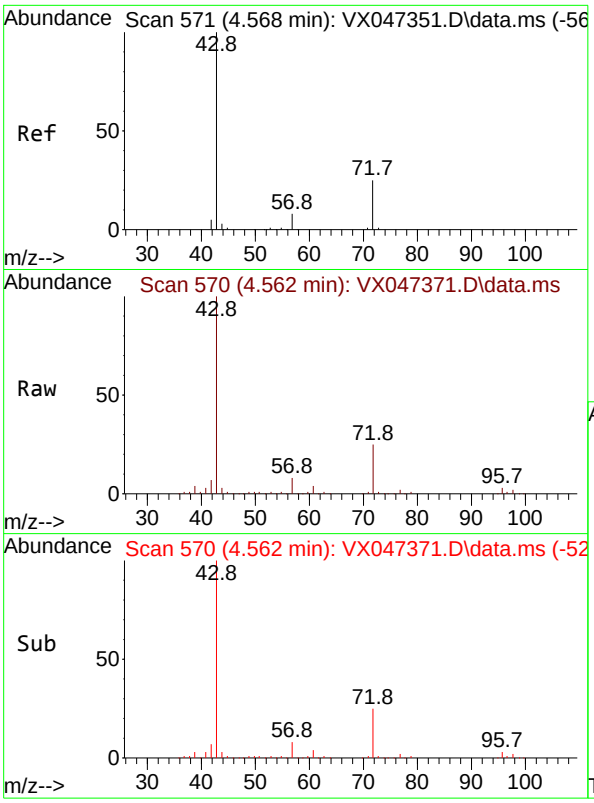


#24
1,1-Dichloroethane
Concen: 48.171 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 63 Resp: 317338

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.3	9.9
100	3.9	2.1	6.3



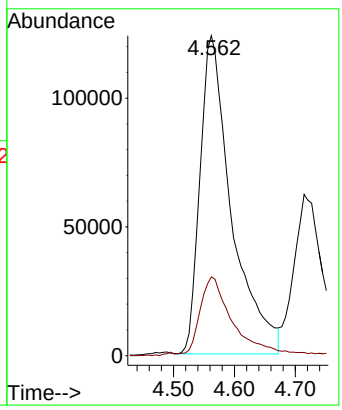


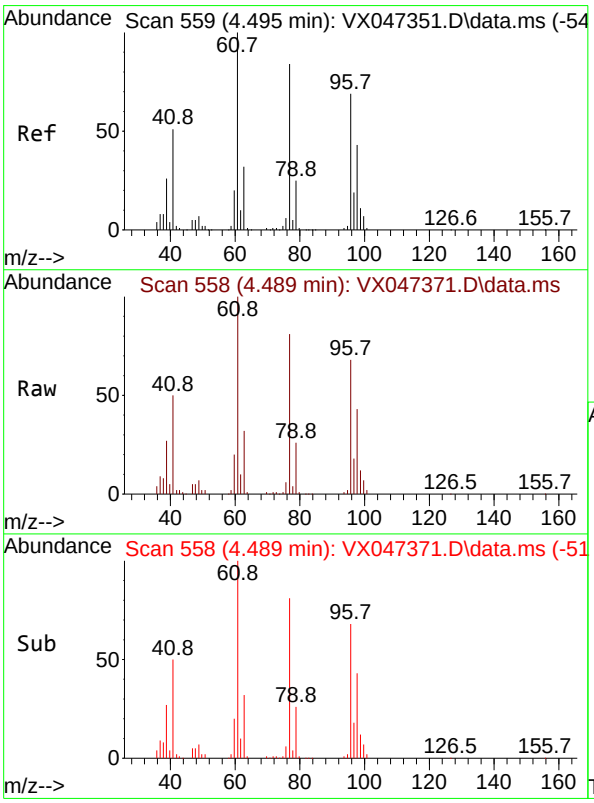
#25
2-Butanone
Concen: 239.666 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 445204

Ion	Ratio	Lower	Upper
43	100		
72	24.1	19.8	29.8

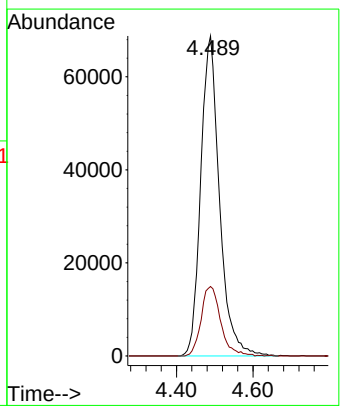


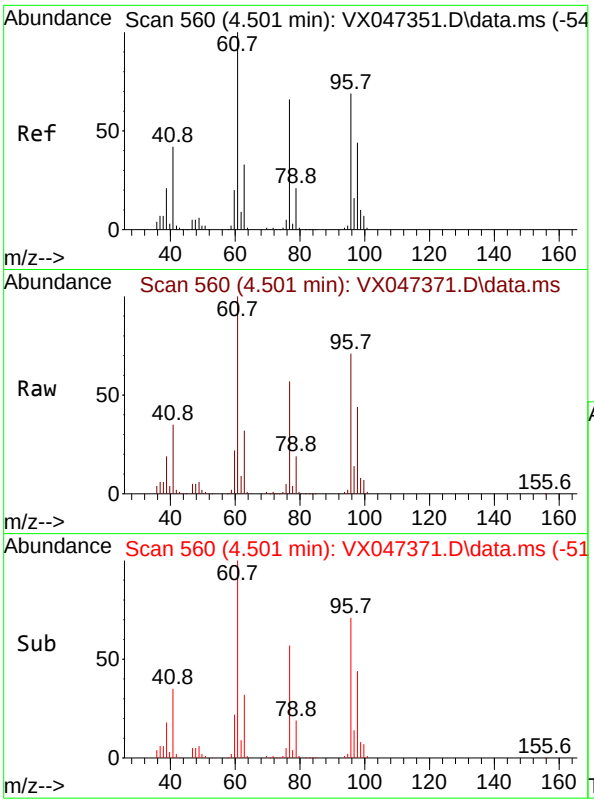


#26
2,2-Dichloropropane
Concen: 46.963 ug/l
RT: 4.489 min Scan# 558
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 77 Resp: 233509

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.4	34.1



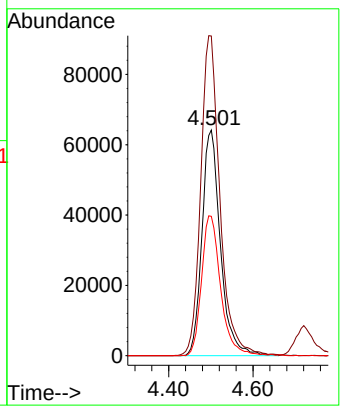


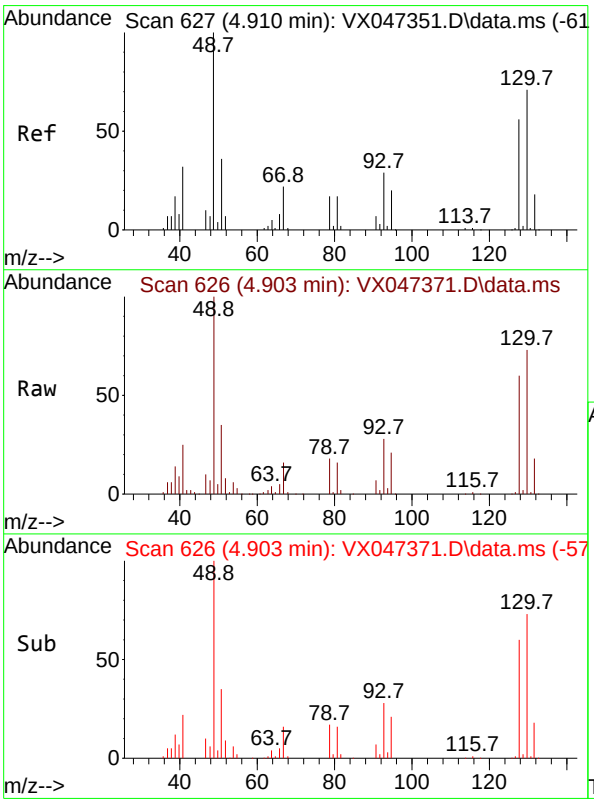
#27
cis-1,2-Dichloroethene
Concen: 46.668 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 195846

Ion	Ratio	Lower	Upper
96	100		
61	147.7	0.0	296.6
98	64.0	0.0	130.4

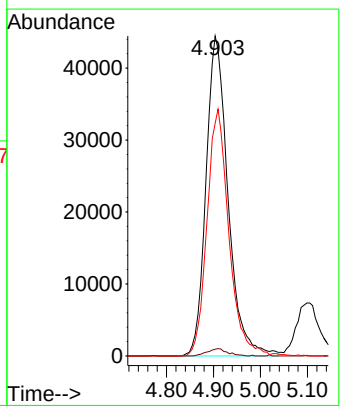


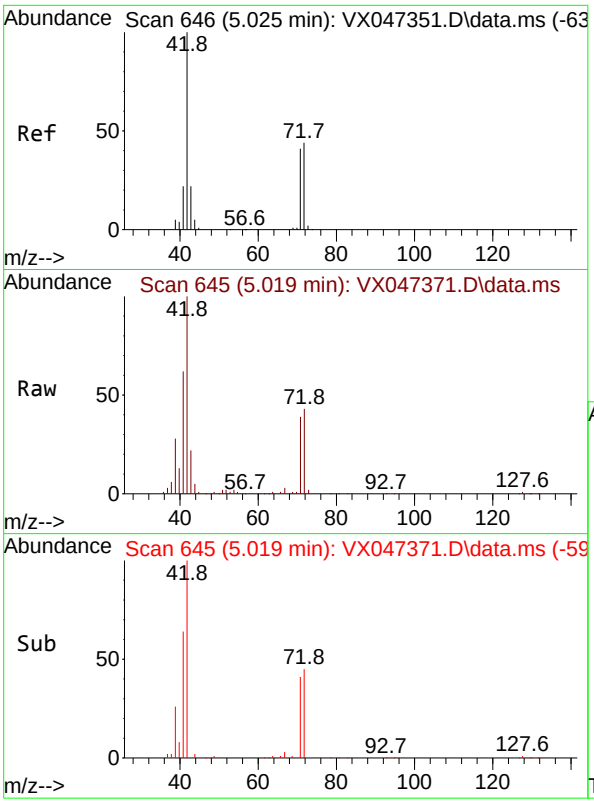


#28
Bromochloromethane
Concen: 52.737 ug/l
RT: 4.903 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 49 Resp: 144569

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.0
130	76.5	59.8	89.6



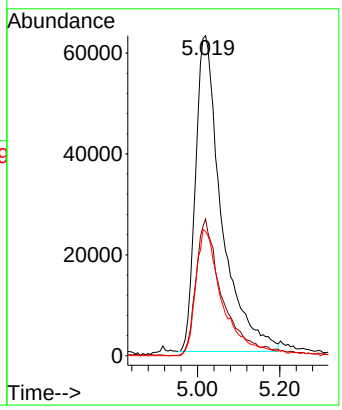


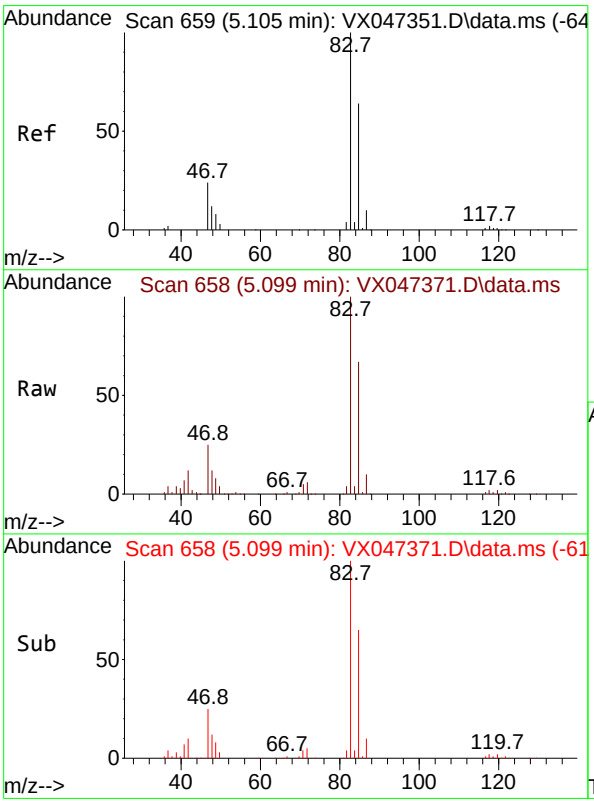
#29
Tetrahydrofuran
Concen: 229.620 ug/l
RT: 5.019 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 275691

Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.6	51.8
71	41.3	32.6	49.0

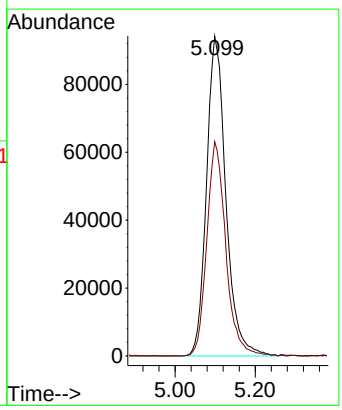


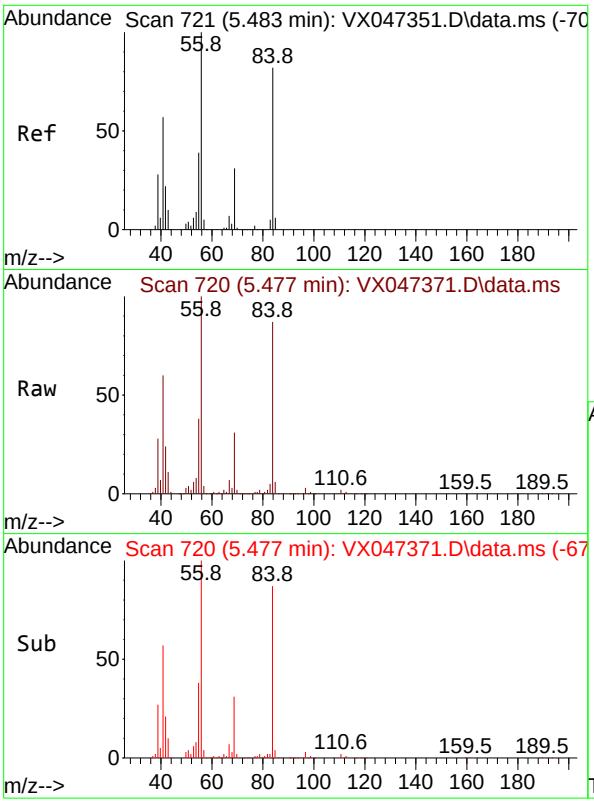


#30
Chloroform
Concen: 46.921 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 83 Resp: 315459

Ion	Ratio	Lower	Upper
83	100		
85	67.0	51.2	76.8



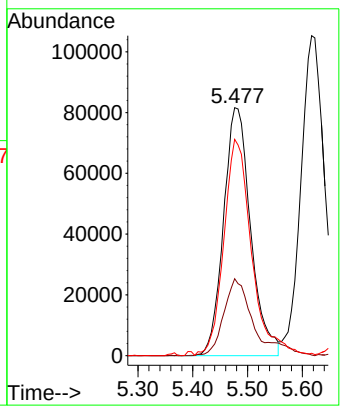


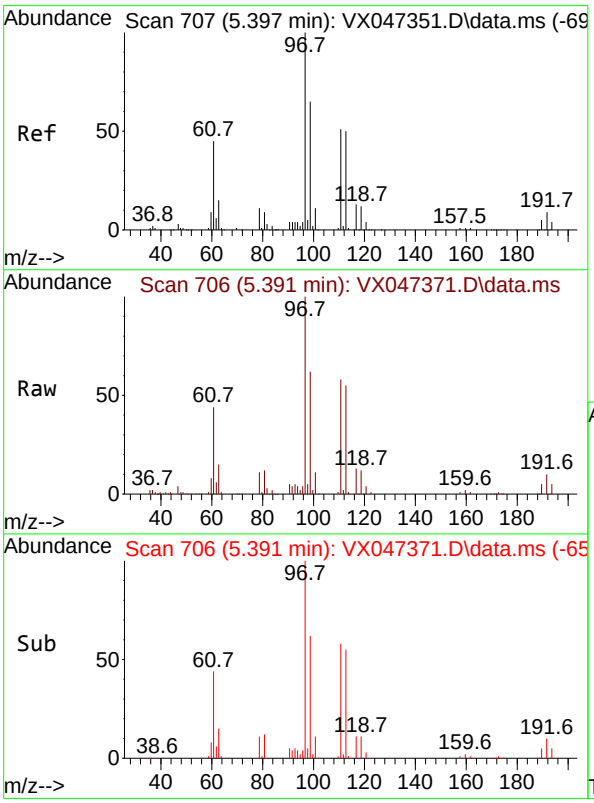
#31
Cyclohexane
Concen: 46.209 ug/l
RT: 5.477 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 280615

Ion	Ratio	Lower	Upper
56	100		
69	30.8	24.3	36.5
84	87.1	65.3	97.9

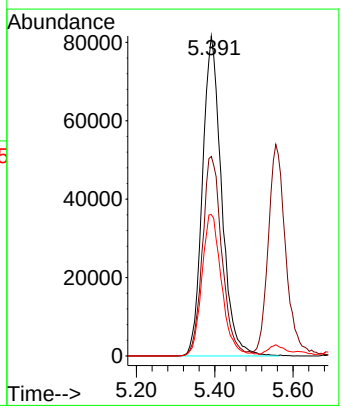


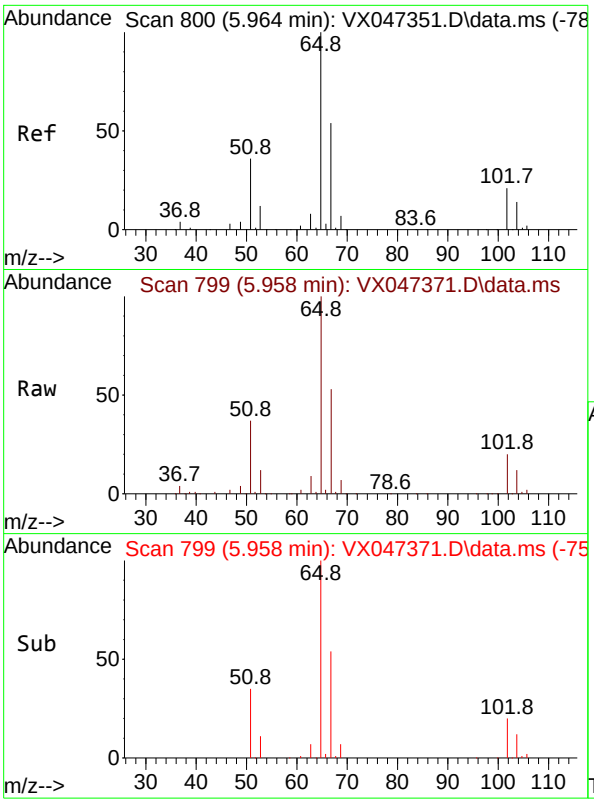


#32
1,1,1-Trichloroethane
Concen: 47.731 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 97 Resp: 276215

Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.4	77.0
61	45.9	35.7	53.5



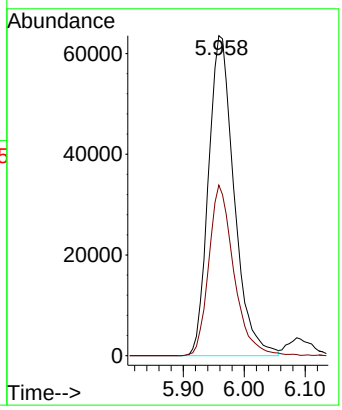


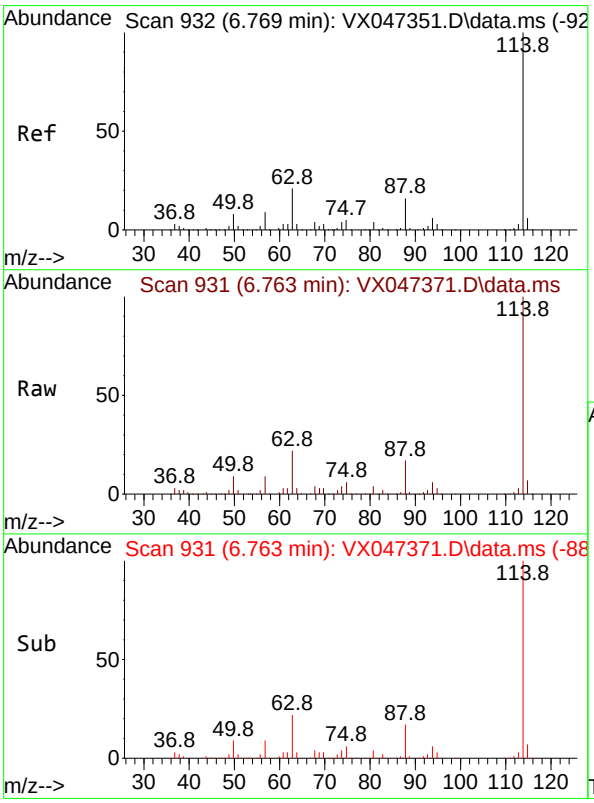
#33
1,2-Dichloroethane-d4
Concen: 49.309 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 186066

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	106.0

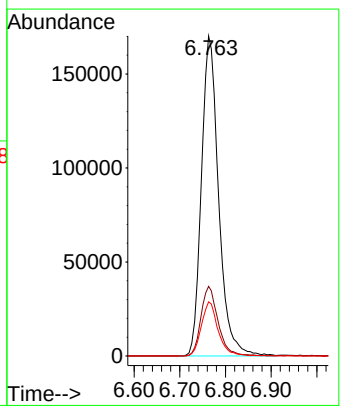


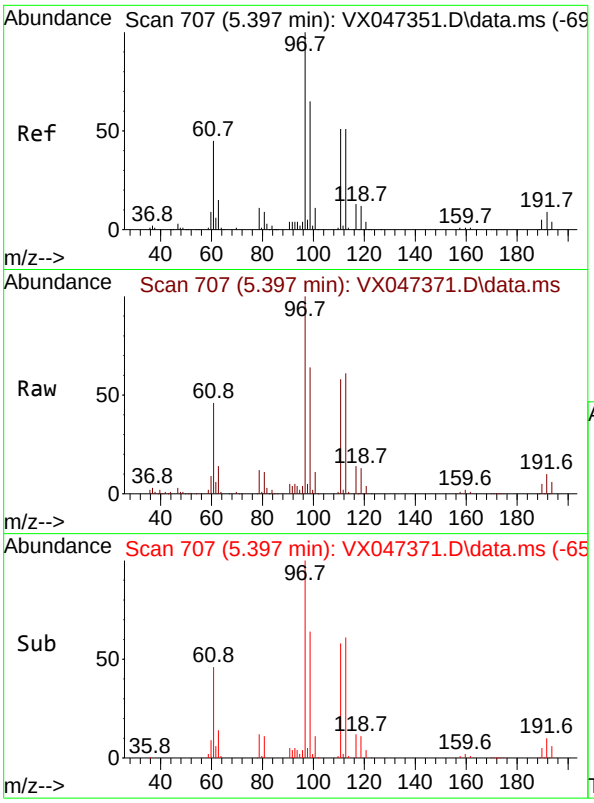


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:114 Resp: 444434

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	42.4
88	16.9	0.0	33.0



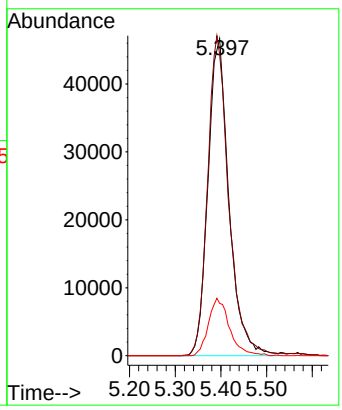


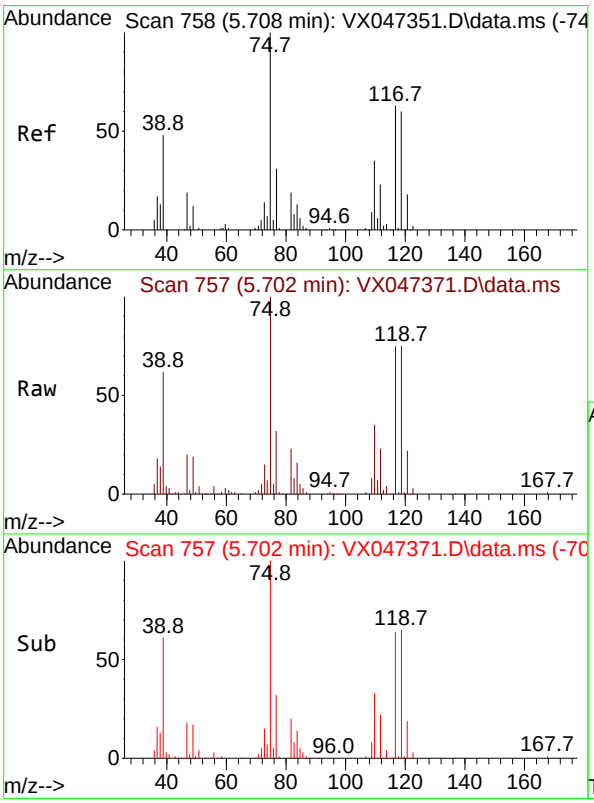
#35
Dibromofluoromethane
Concen: 51.741 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 149242

Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.4	122.2
192	18.2	14.1	21.1

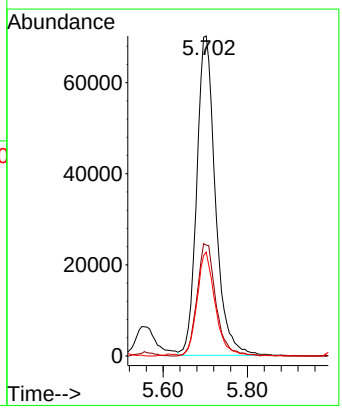


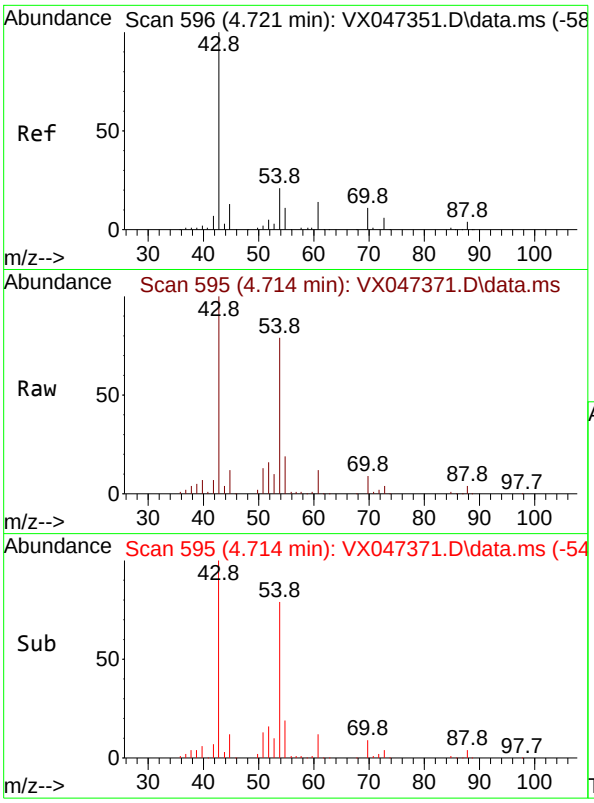


#36
1,1-Dichloropropene
Concen: 47.491 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 75 Resp: 216239

Ion	Ratio	Lower	Upper
75	100		
110	35.7	17.4	52.2
77	31.6	24.4	36.6



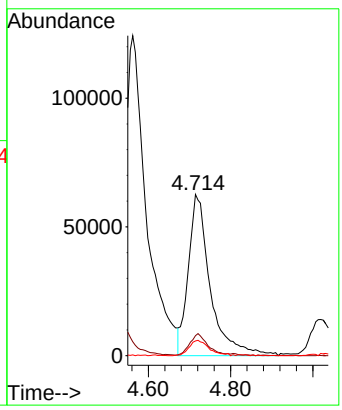


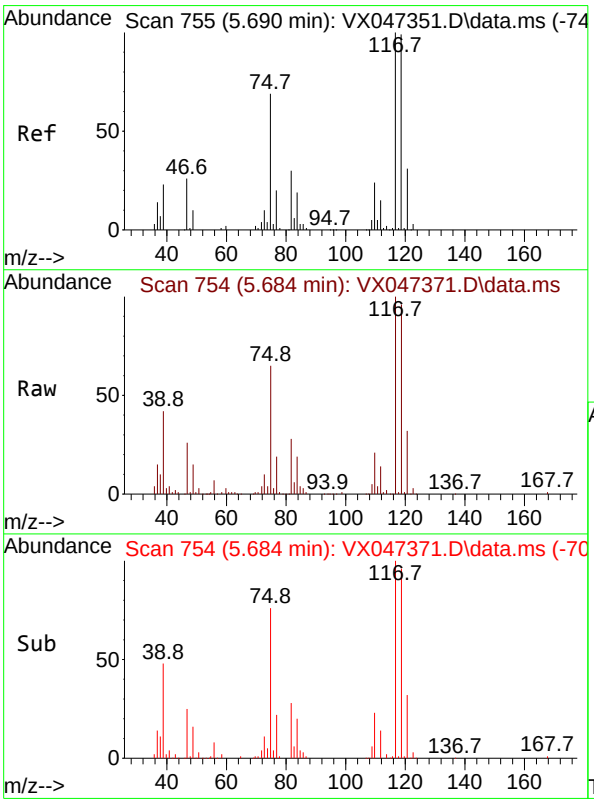
#37
Ethyl Acetate
Concen: 49.091 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 232054

Ion	Ratio	Lower	Upper
43	100		
61	10.7	9.4	14.2
70	8.7	7.0	10.6

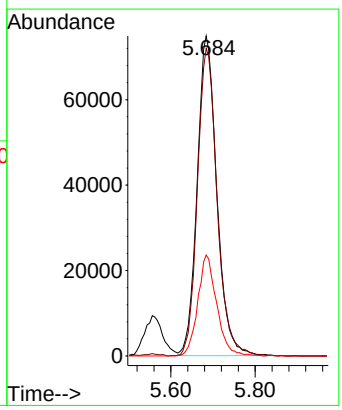


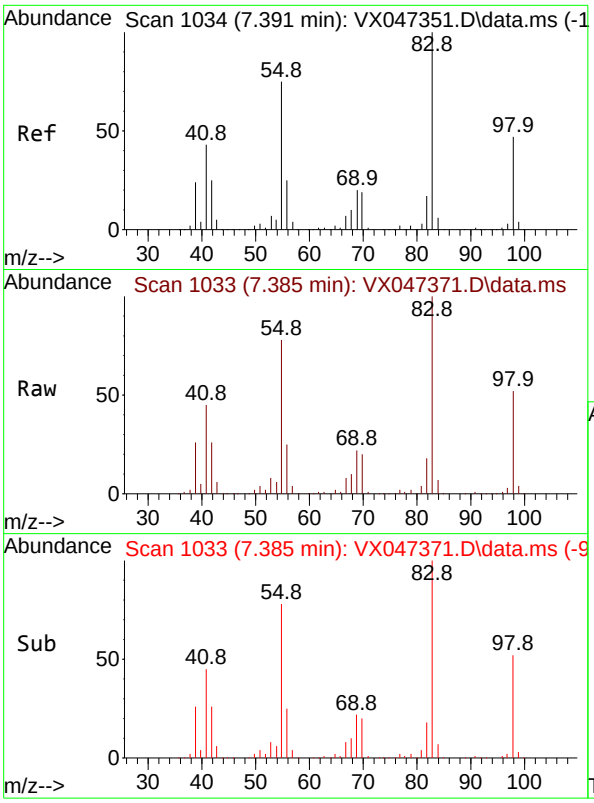


#38
Carbon Tetrachloride
Concen: 48.915 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:117 Resp: 243389

Ion	Ratio	Lower	Upper
117	100		
119	96.2	78.5	117.7
121	31.6	24.7	37.1



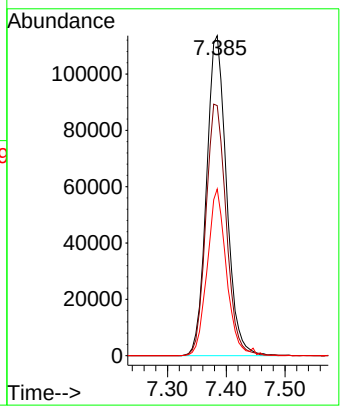


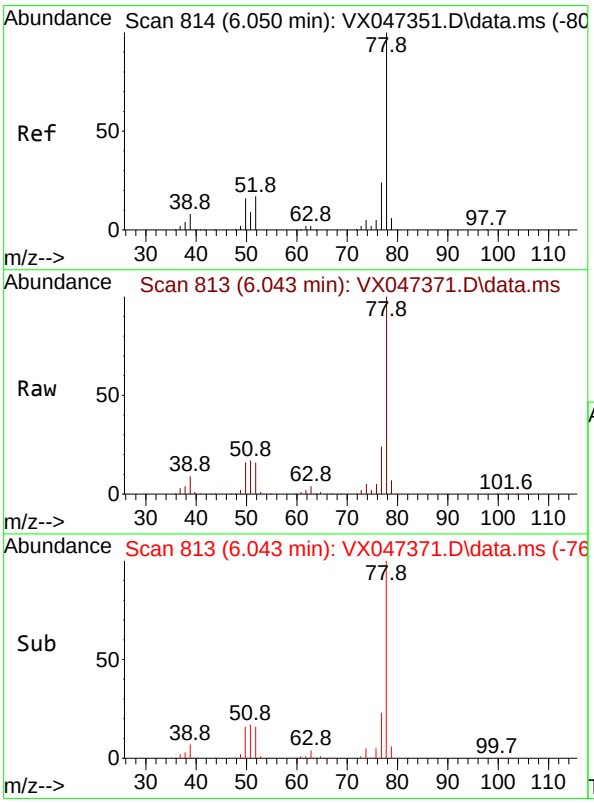
#39
Methylcyclohexane
Concen: 47.245 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 268330

Ion	Ratio	Lower	Upper
83	100		
55	78.1	60.0	90.0
98	52.1	37.2	55.8

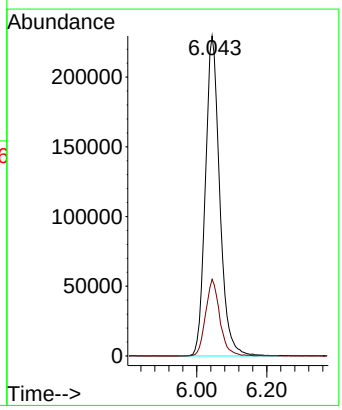


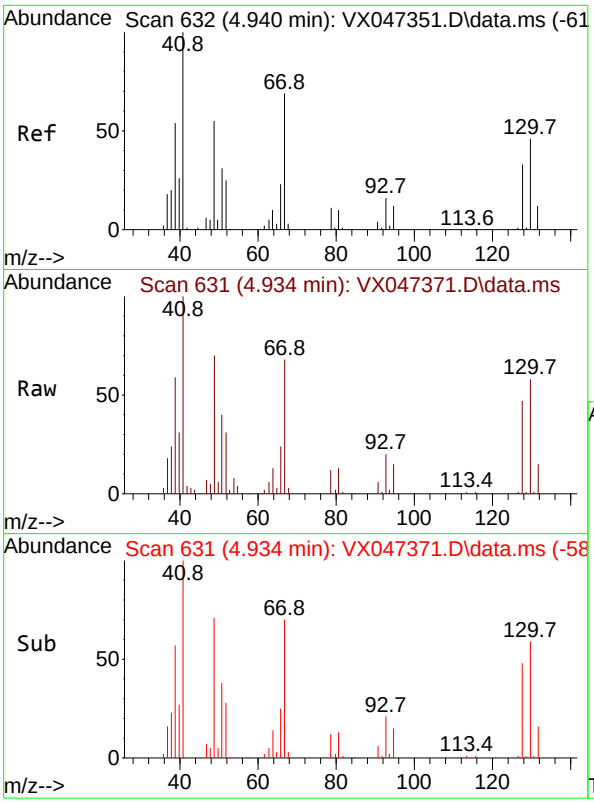


#40
Benzene
Concen: 47.917 ug/l
RT: 6.043 min Scan# 813
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 78 Resp: 653043

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.4



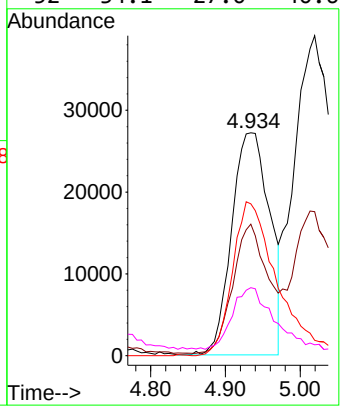


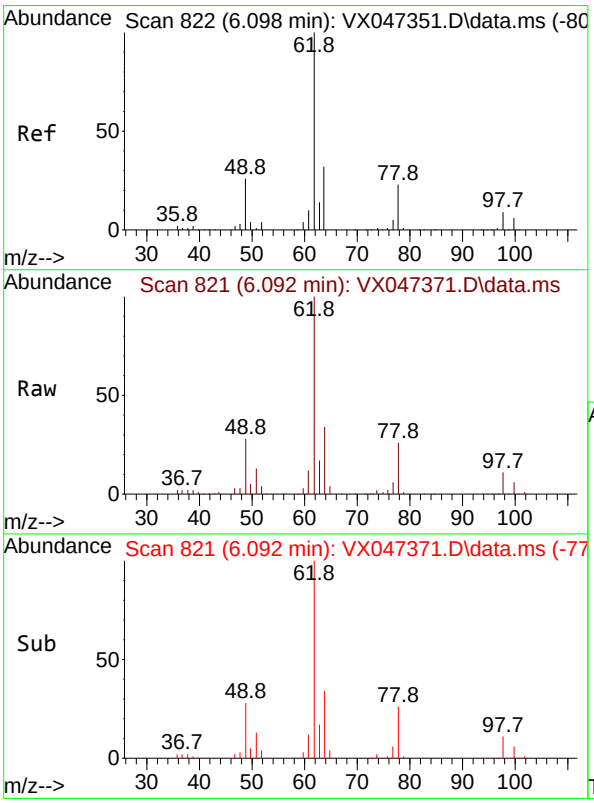
#41
Methacrylonitrile
Concen: 48.083 ug/l
RT: 4.934 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 95846

Ion	Ratio	Lower	Upper
41	100		
39	53.1	45.4	68.2
67	83.4	64.0	96.0
52	34.1	27.0	40.6

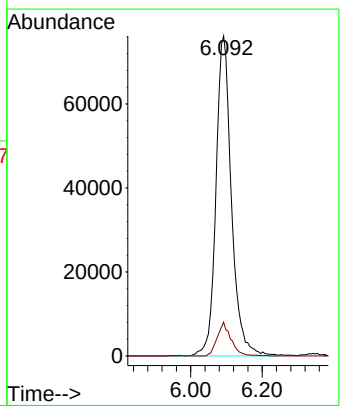


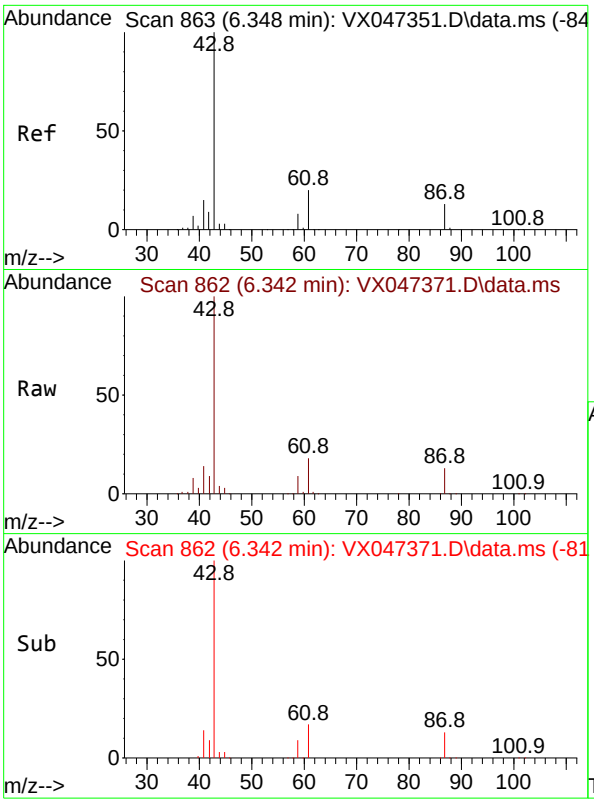


#42
1,2-Dichloroethane
Concen: 47.424 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 62 Resp: 228939

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.0



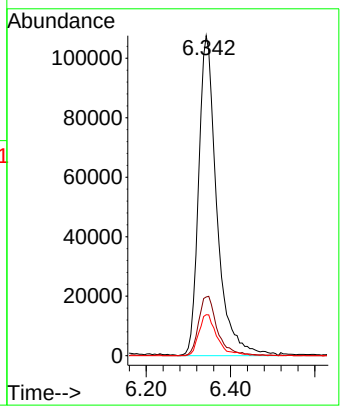


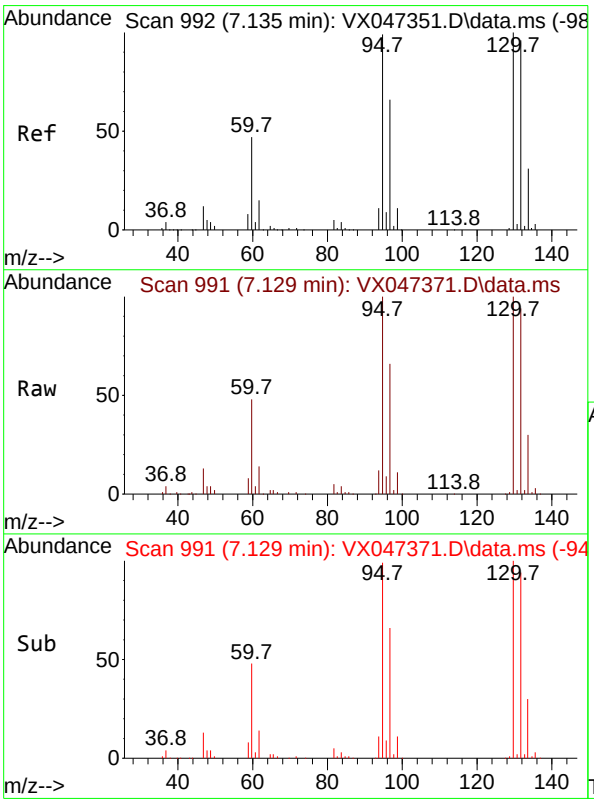
#43
Isopropyl Acetate
Concen: 47.583 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 323127

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.4	23.0
87	12.9	10.2	15.4

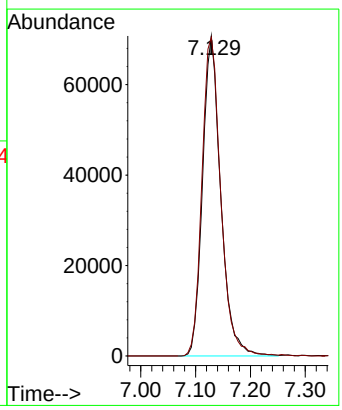


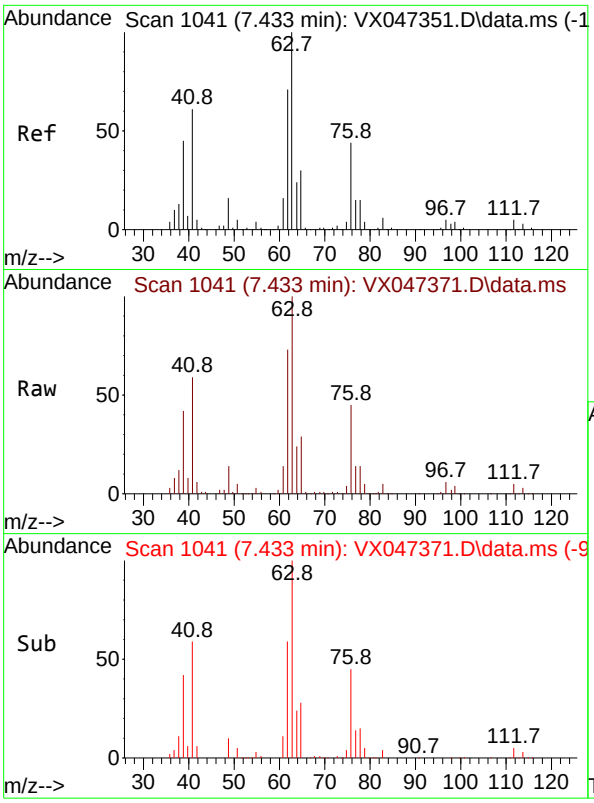


#44
Trichloroethene
Concen: 46.616 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:130 Resp: 162678

Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	198.6



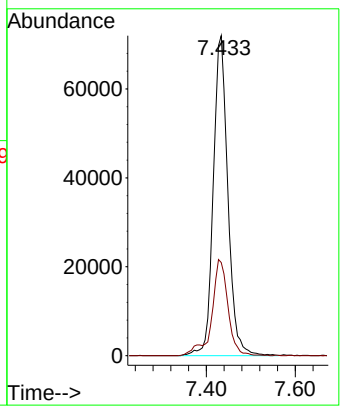


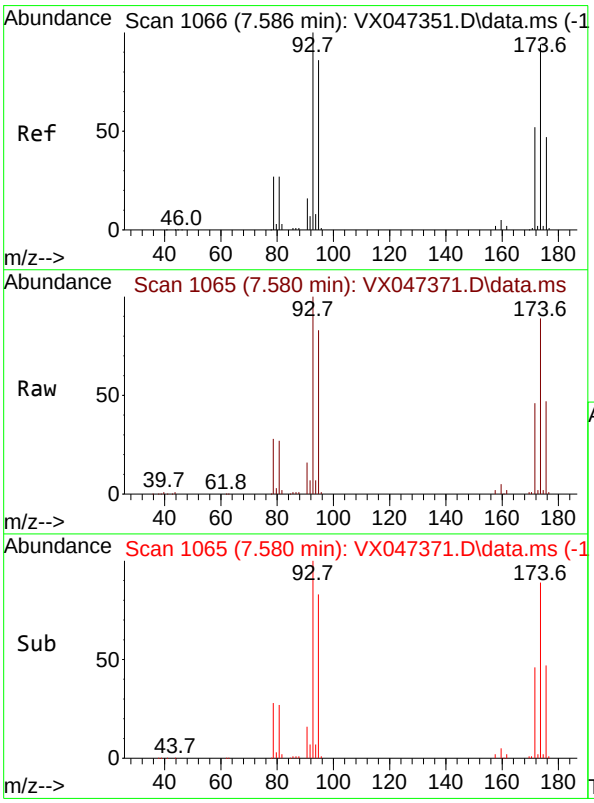
#45
1,2-Dichloropropane
Concen: 47.913 ug/l
RT: 7.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 163590

Ion	Ratio	Lower	Upper
63	100		
65	29.1	23.8	35.6

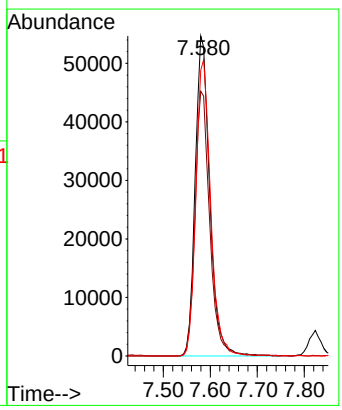


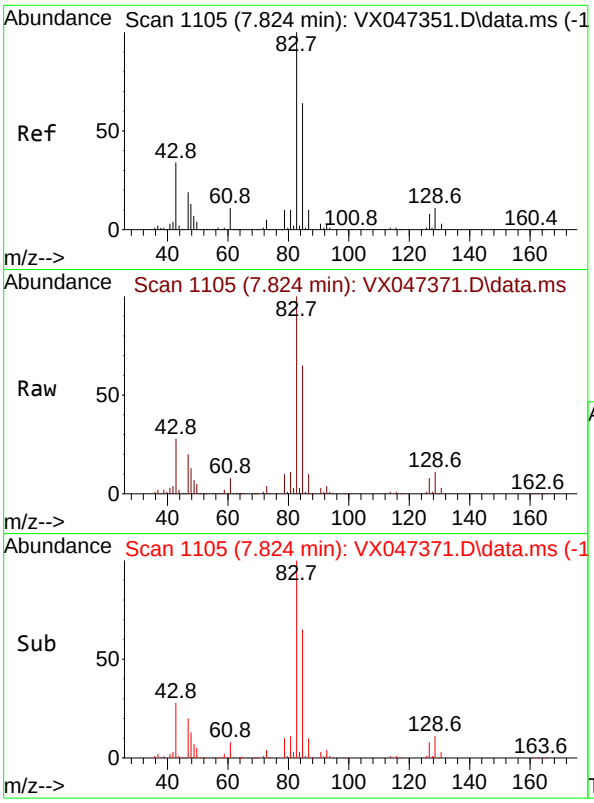


#46
Dibromomethane
Concen: 47.485 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 93 Resp: 117704

Ion	Ratio	Lower	Upper
93	100		
95	83.2	68.0	102.0
174	93.7	75.8	113.6



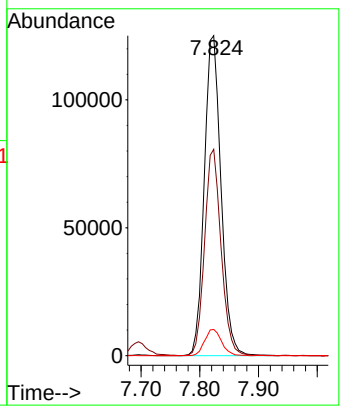


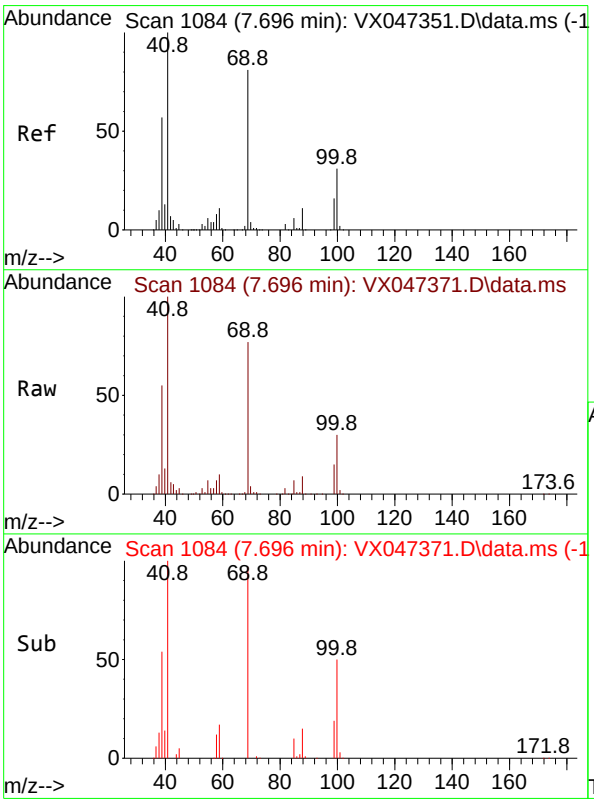
#47
Bromodichloromethane
Concen: 48.205 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 247713

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.0	76.6
127	8.2	7.0	10.4

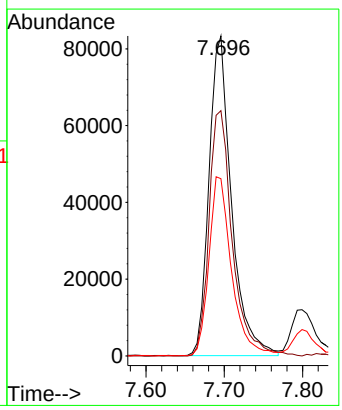


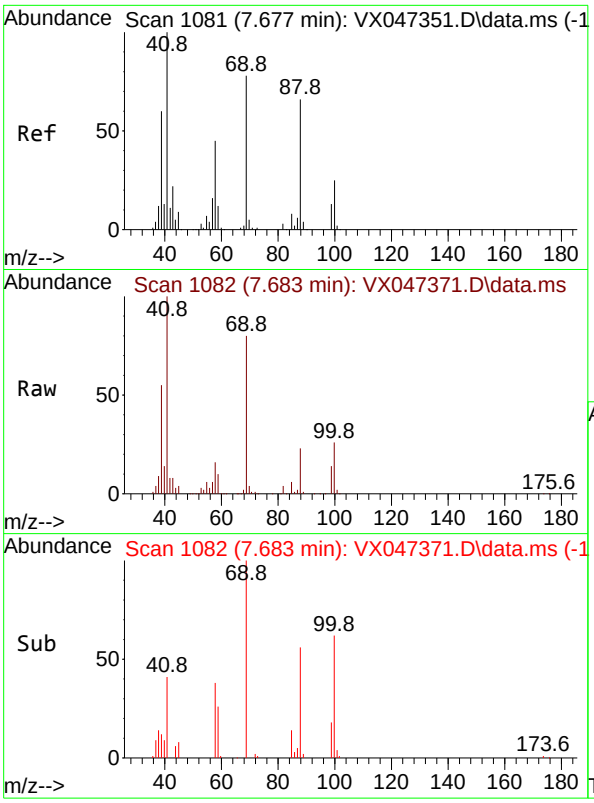


#48
Methyl methacrylate
Concen: 47.171 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 41 Resp: 166270

Ion	Ratio	Lower	Upper
41	100		
69	79.8	65.0	97.4
39	56.4	45.7	68.5



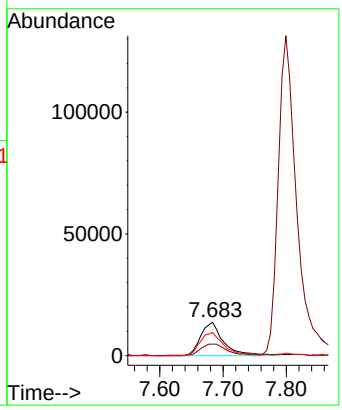


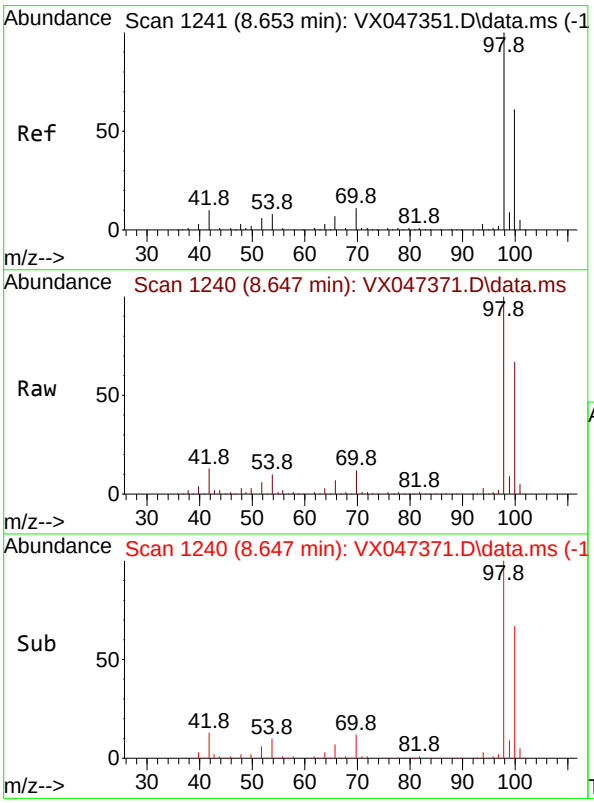
#49
1,4-Dioxane
Concen: 1013.952 ug/l
RT: 7.683 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 34744

Ion	Ratio	Lower	Upper
88	100		
43	37.8	32.4	48.6
58	72.0	56.9	85.3

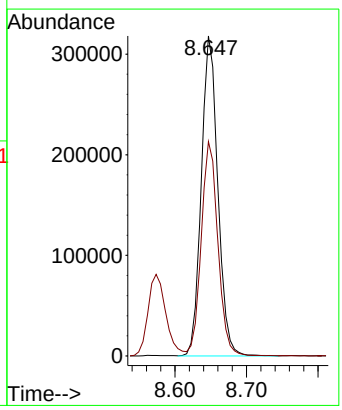


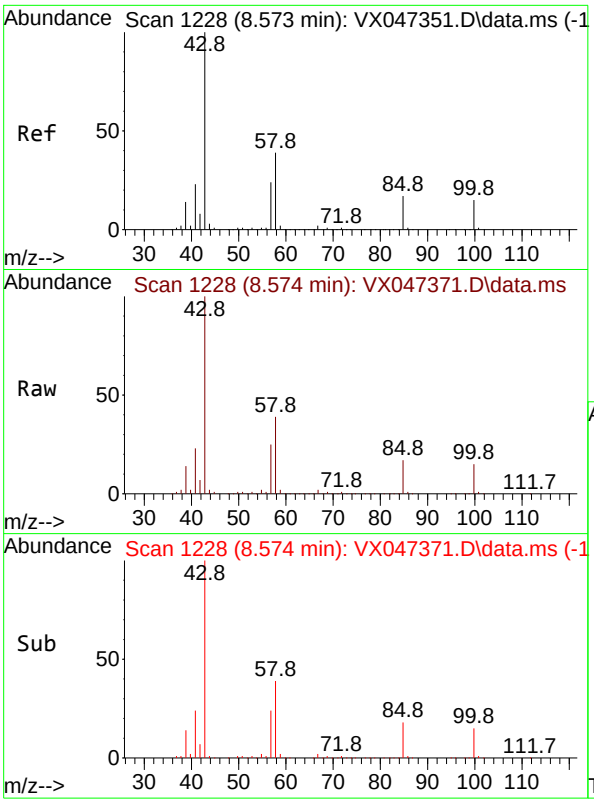


#50
Toluene-d8
Concen: 49.536 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 98 Resp: 510697

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.9	80.9



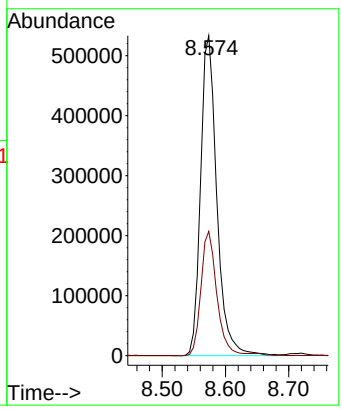


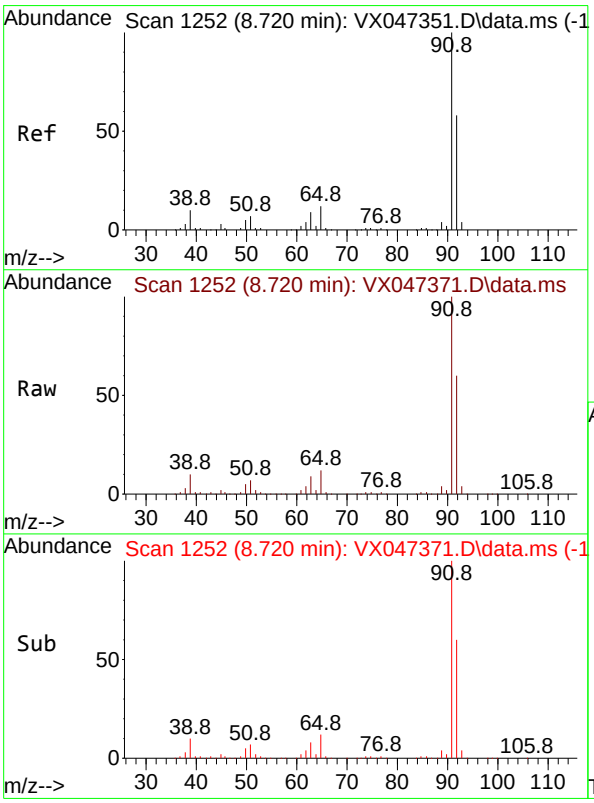
#51
4-Methyl-2-Pentanone
Concen: 243.653 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 952145

Ion	Ratio	Lower	Upper
43	100		
58	38.0	31.2	46.8

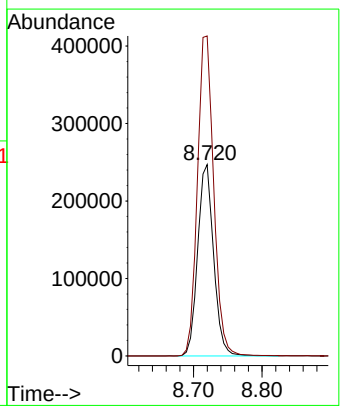


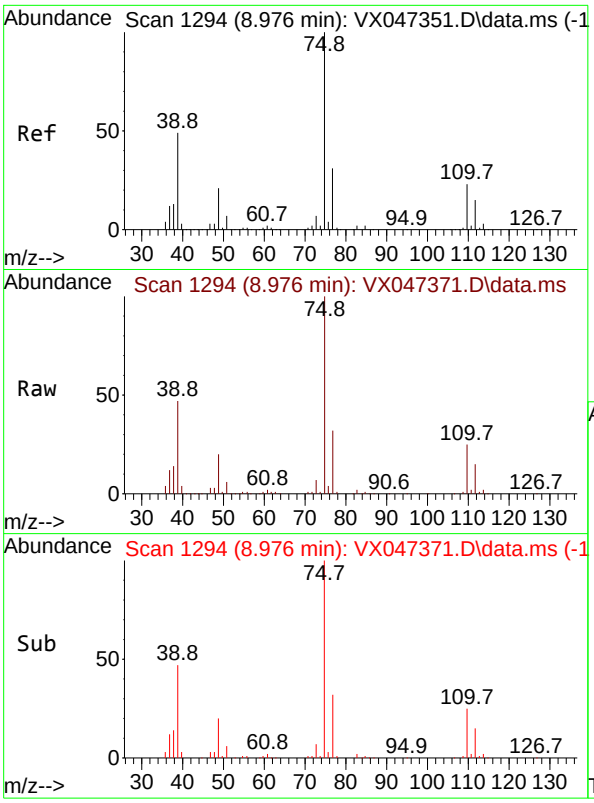


#52
Toluene
Concen: 47.503 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 92 Resp: 400051

Ion	Ratio	Lower	Upper
92	100		
91	171.2	136.3	204.5



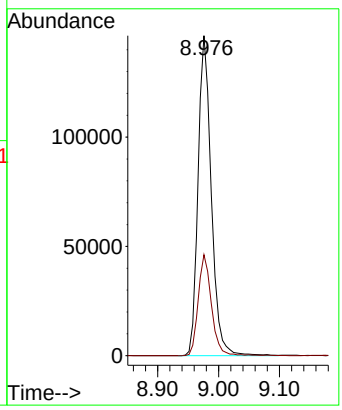


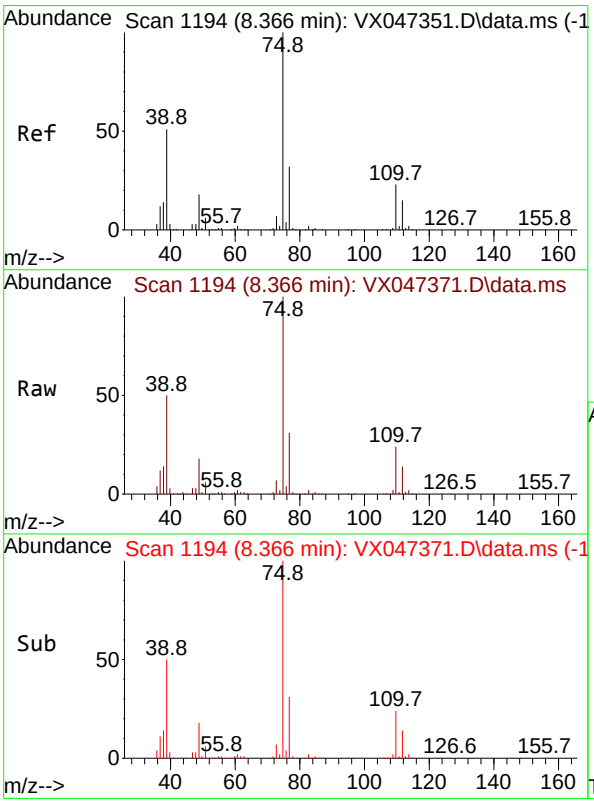
#53
t-1,3-Dichloropropene
Concen: 49.287 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 221043

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.7	37.1

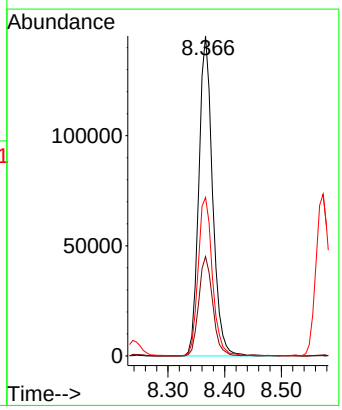


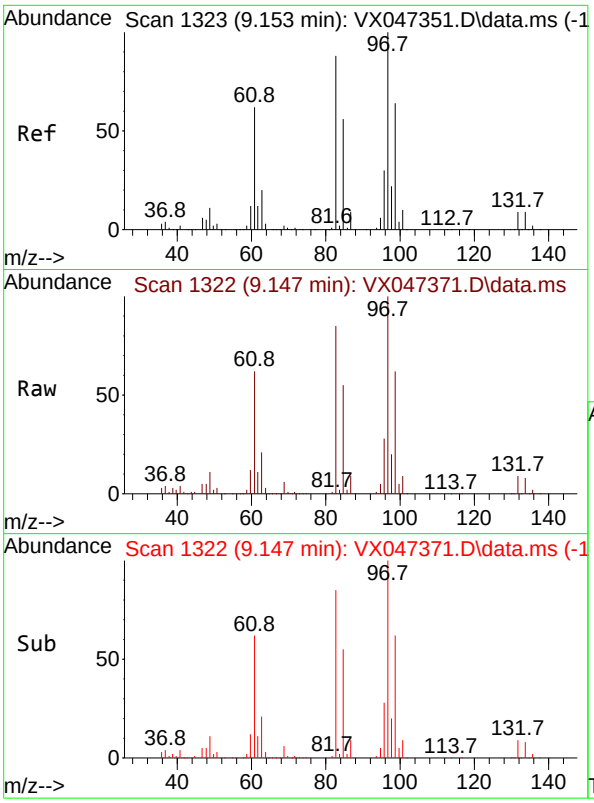


#54
cis-1,3-Dichloropropene
Concen: 48.187 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 75 Resp: 244614

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.6	38.4
39	49.5	40.9	61.3



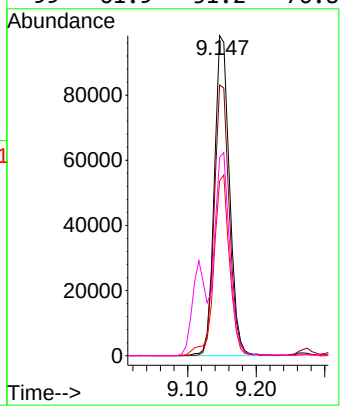


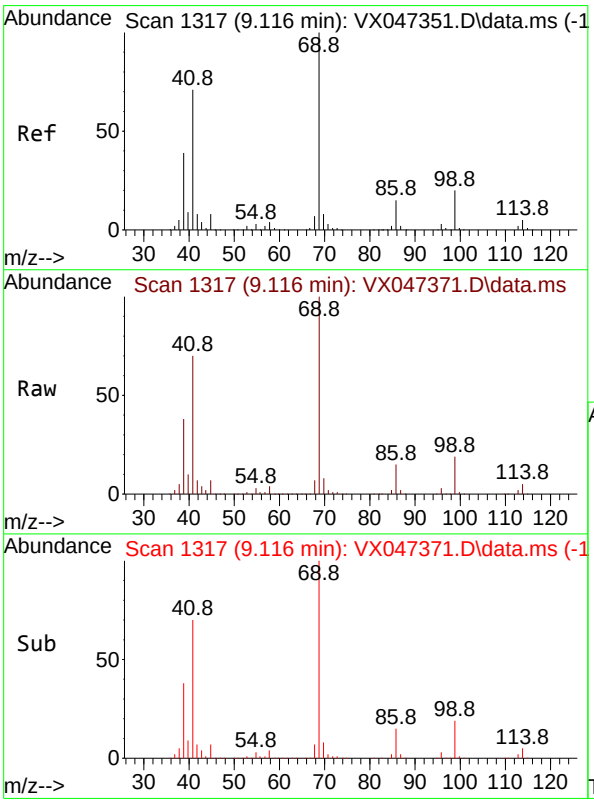
#55
1,1,2-Trichloroethane
Concen: 47.246 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 151070

Ion	Ratio	Lower	Upper
97	100		
83	84.5	70.6	106.0
85	54.7	44.7	67.1
99	61.9	51.2	76.8

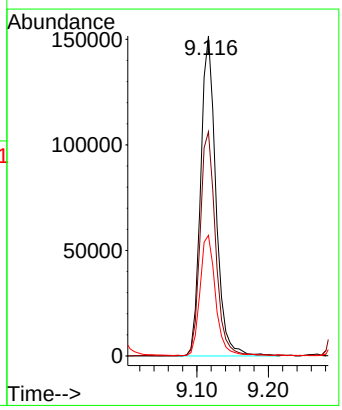


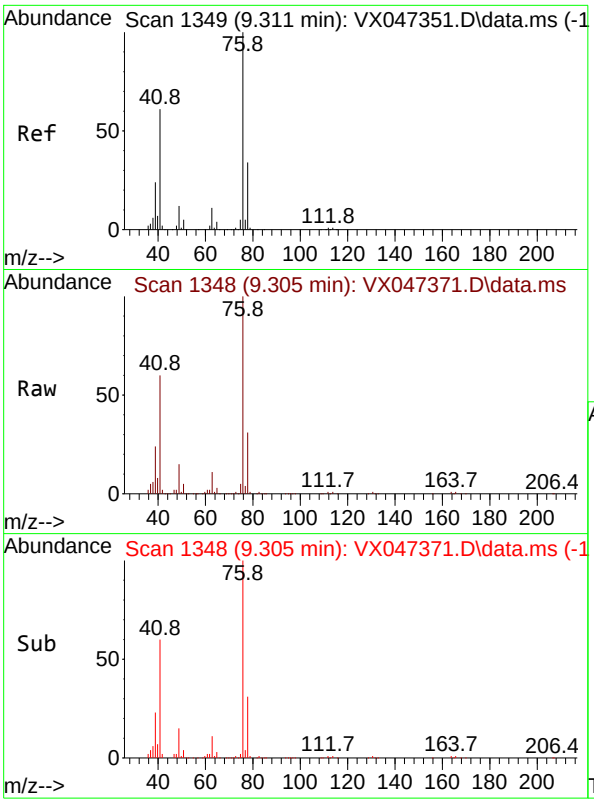


#56
Ethyl methacrylate
Concen: 47.723 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 69 Resp: 224978

Ion	Ratio	Lower	Upper
69	100		
41	70.5	55.3	82.9
39	38.3	30.2	45.2



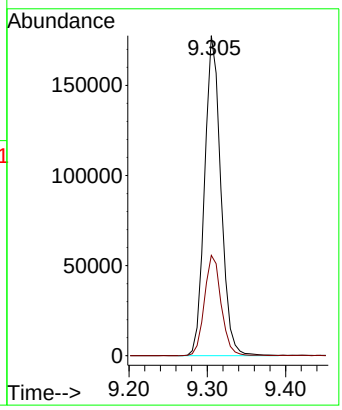


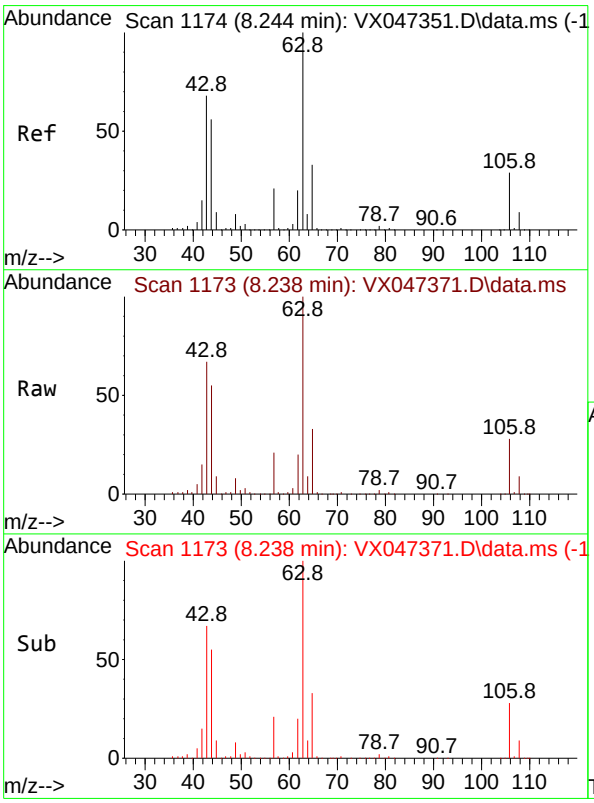
#57
1,3-Dichloropropane
Concen: 46.880 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 255427

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.2

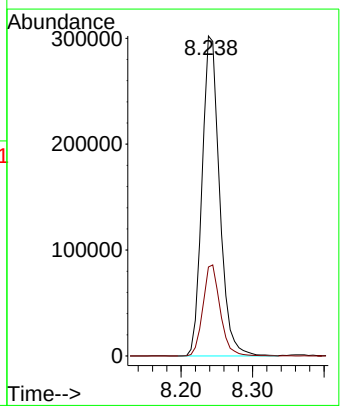


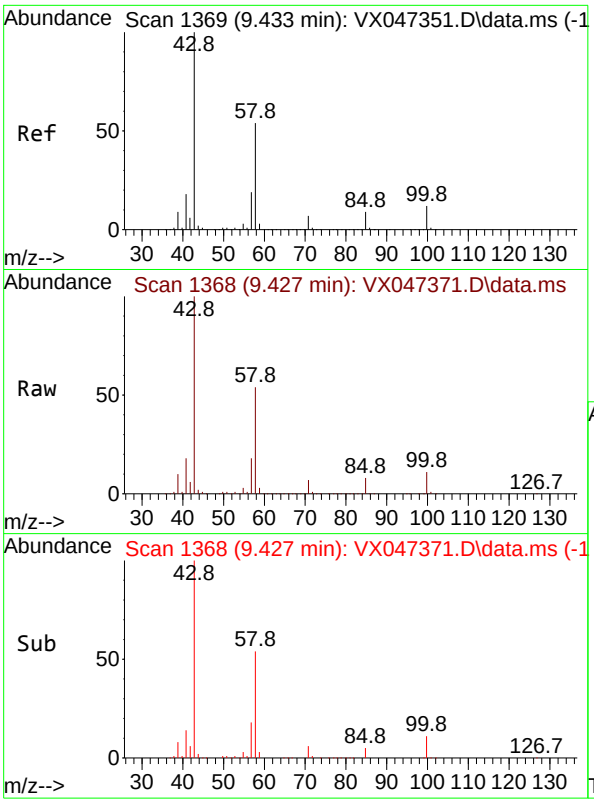


#58
2-Chloroethyl Vinyl ether
Concen: 229.244 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 63 Resp: 514434

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.8	34.2



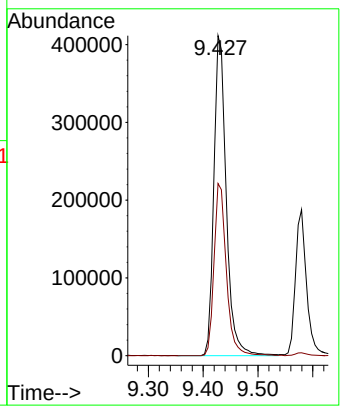


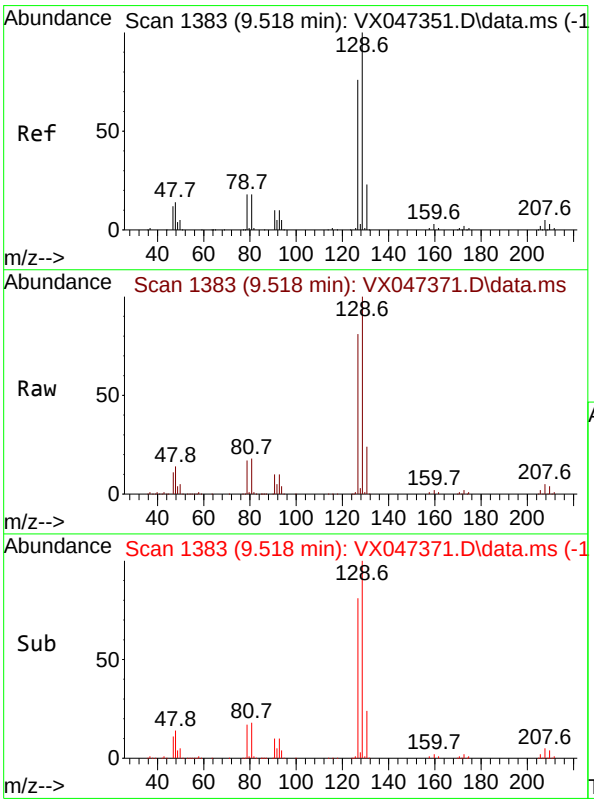
#59
2-Hexanone
Concen: 238.139 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 643715

Ion	Ratio	Lower	Upper
43	100		
58	53.6	26.9	80.7

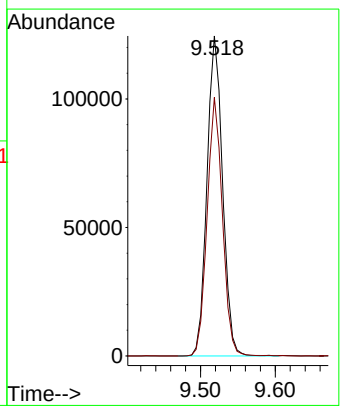


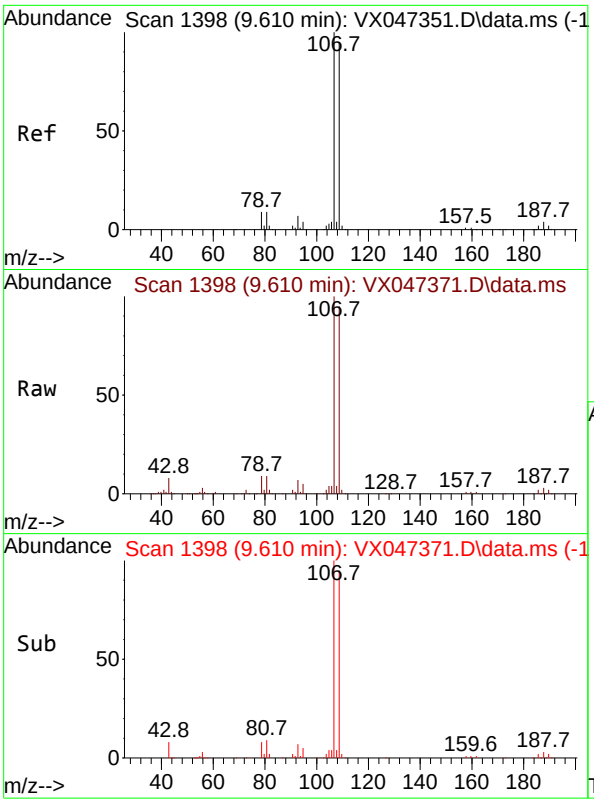


#60
Dibromochloromethane
Concen: 47.510 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:129 Resp: 180536

Ion	Ratio	Lower	Upper
129	100		
127	79.4	38.9	116.6



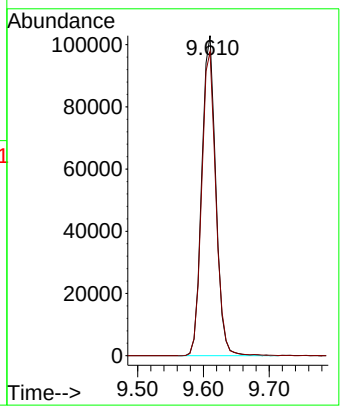


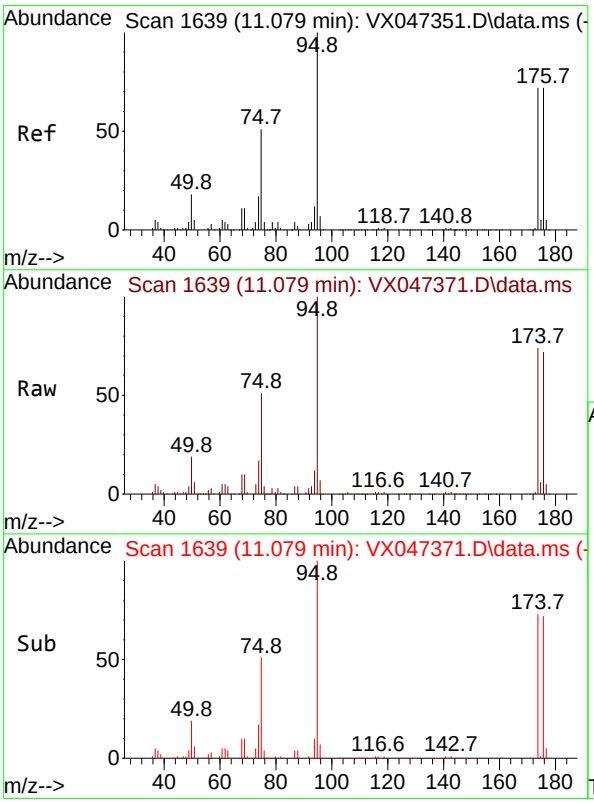
#61
1,2-Dibromoethane
Concen: 46.327 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 152751

Ion	Ratio	Lower	Upper
107	100		
109	96.1	76.2	114.2

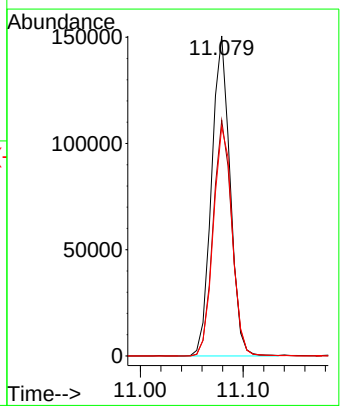


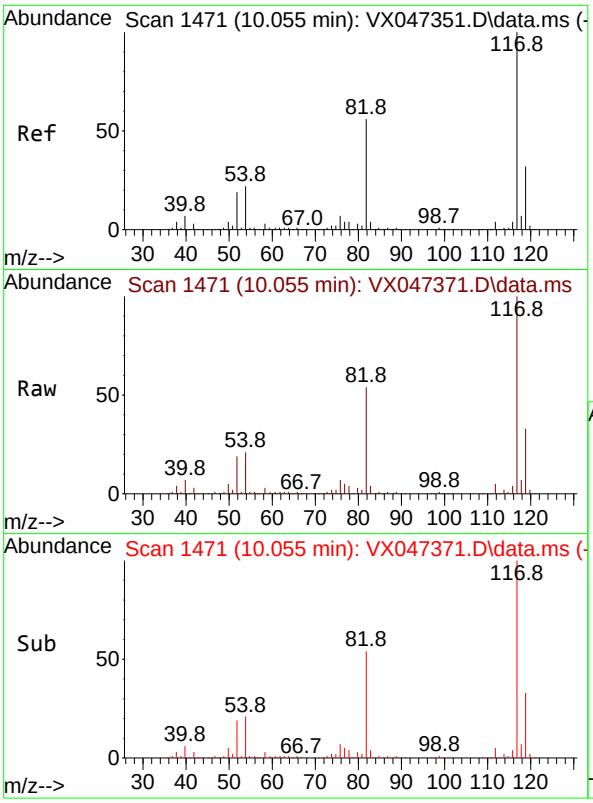


#62
4-Bromofluorobenzene
Concen: 49.495 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 95 Resp: 188302

Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	148.0
176	73.5	0.0	145.4



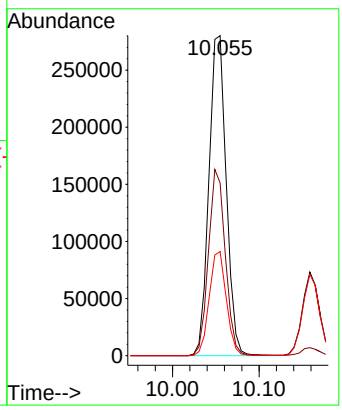


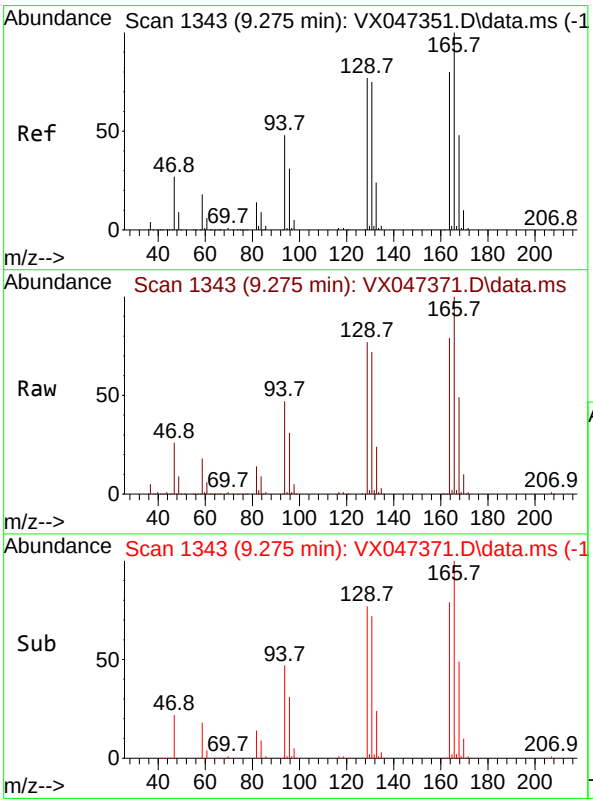
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 389564

Ion	Ratio	Lower	Upper
117	100		
82	54.0	45.0	67.4
119	32.6	25.8	38.8

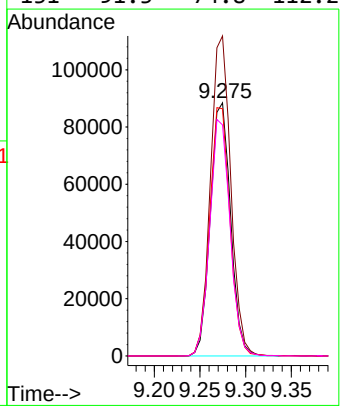


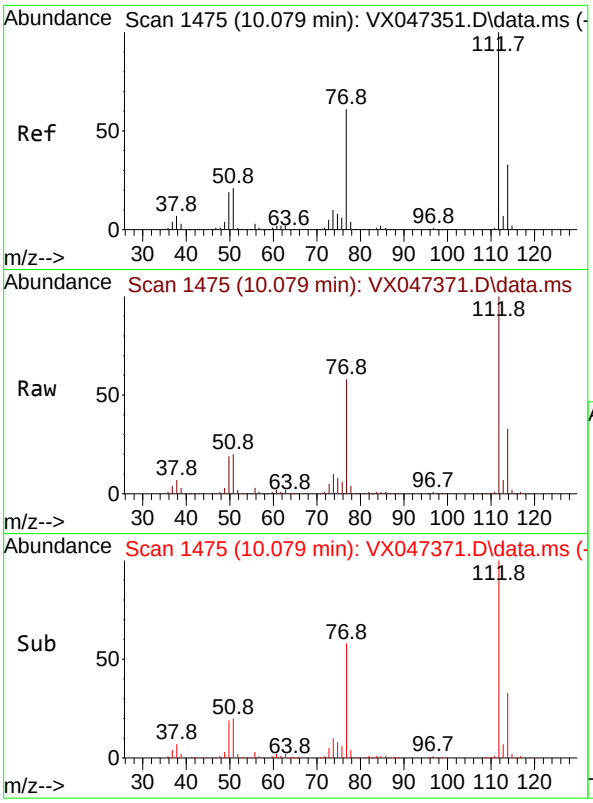


#64
Tetrachloroethene
Concen: 48.259 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:164 Resp: 135984

Ion	Ratio	Lower	Upper
164	100		
166	126.4	100.3	150.5
129	97.7	77.7	116.5
131	91.3	74.8	112.2



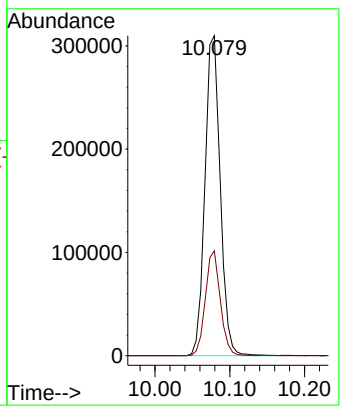


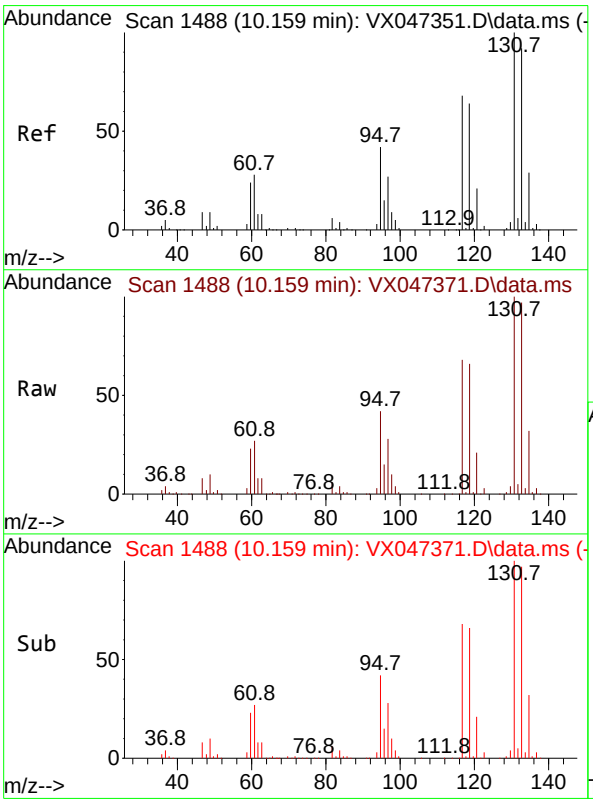
#65
Chlorobenzene
Concen: 47.514 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 439867

Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.4	39.6

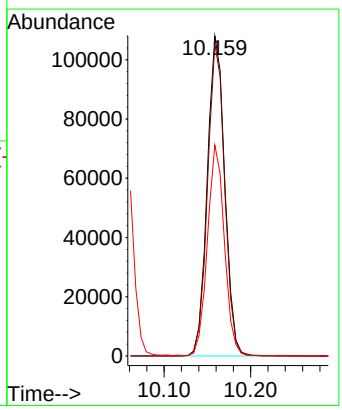


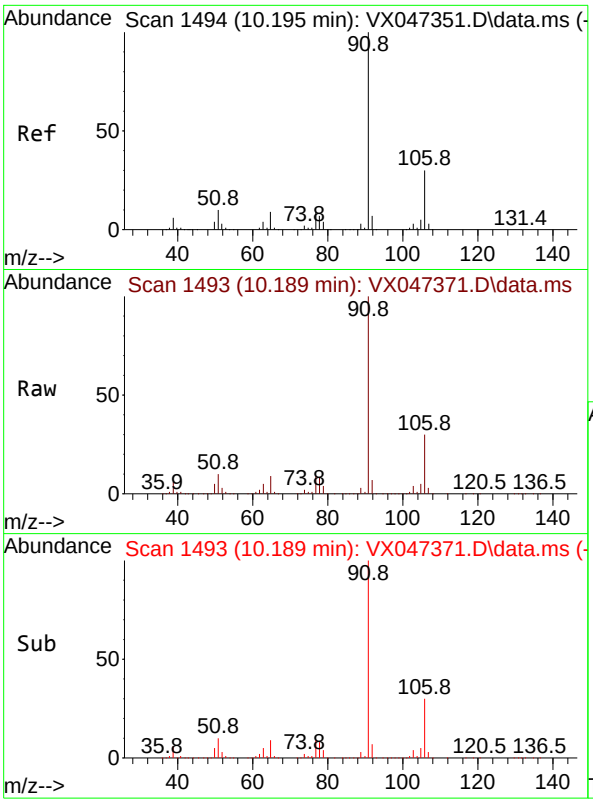


#66
1,1,1,2-Tetrachloroethane
Concen: 48.384 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:131 Resp: 151414

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.6	142.9
119	63.8	32.3	96.8



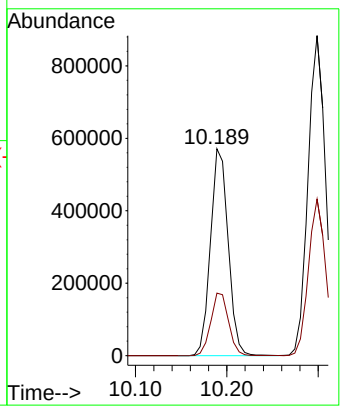


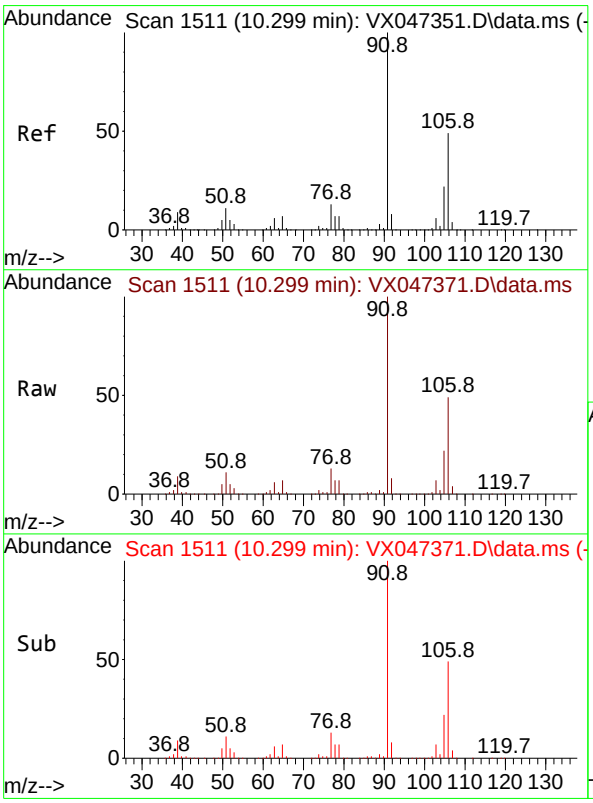
#67
Ethyl Benzene
Concen: 48.124 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 766794

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.4	36.6

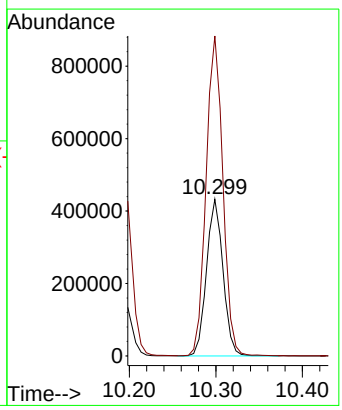


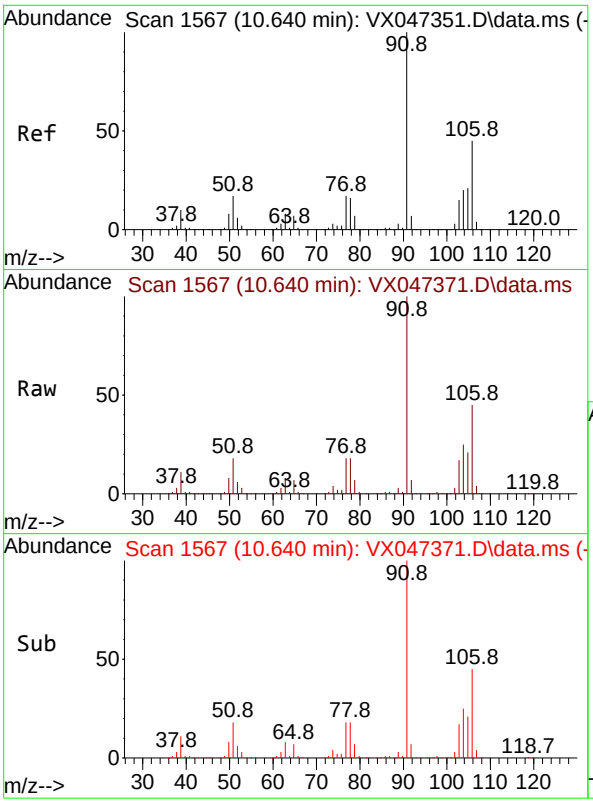


#68
m/p-Xylenes
Concen: 96.341 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:106 Resp: 572388

Ion	Ratio	Lower	Upper
106	100		
91	208.0	164.7	247.1



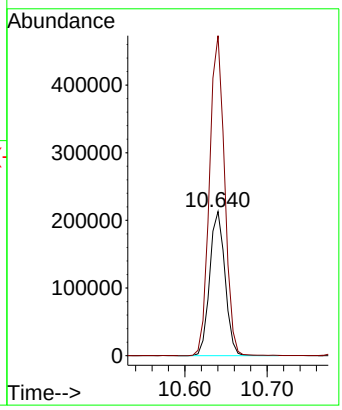


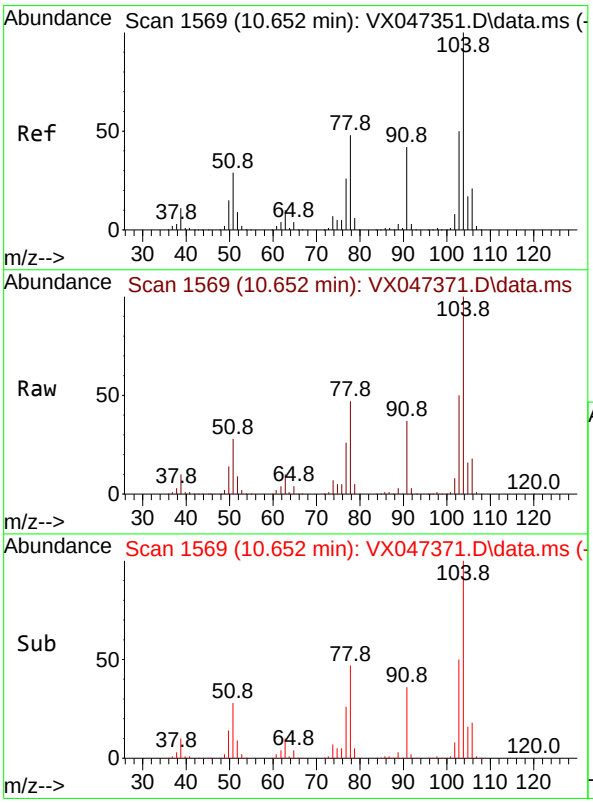
#69
o-Xylene
Concen: 48.267 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 275968

Ion	Ratio	Lower	Upper
106	100		
91	219.5	110.6	331.8

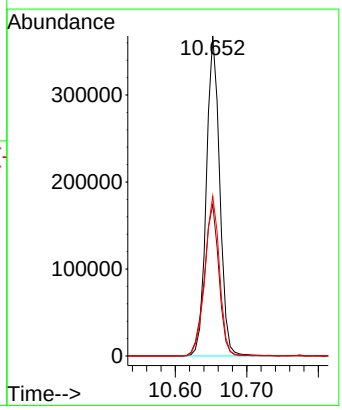


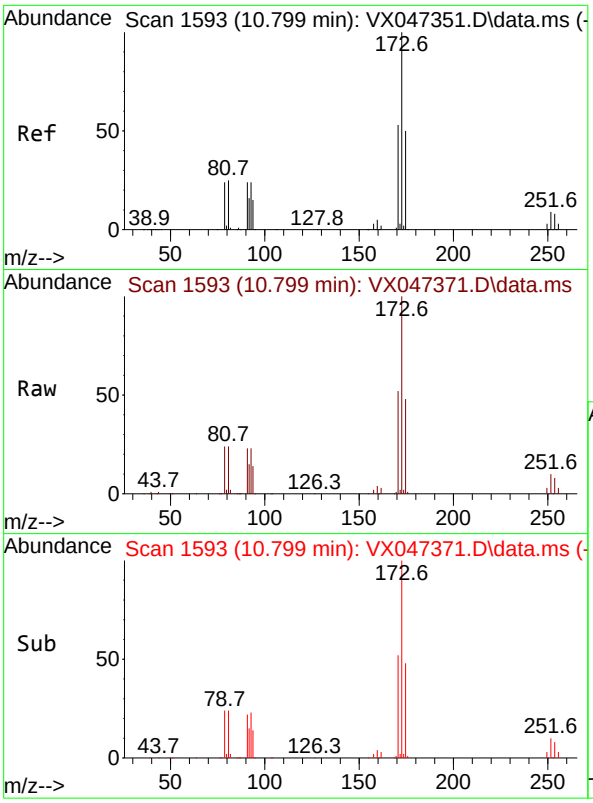


#70
Styrene
Concen: 49.483 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:104 Resp: 478038

Ion	Ratio	Lower	Upper
104	100		
78	52.0	41.8	62.8
103	54.2	43.6	65.4



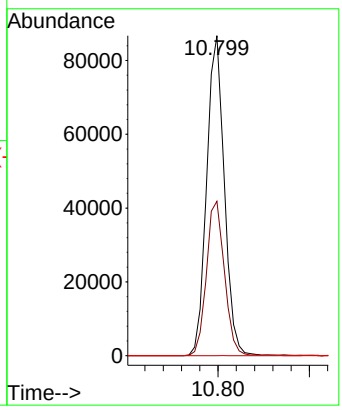


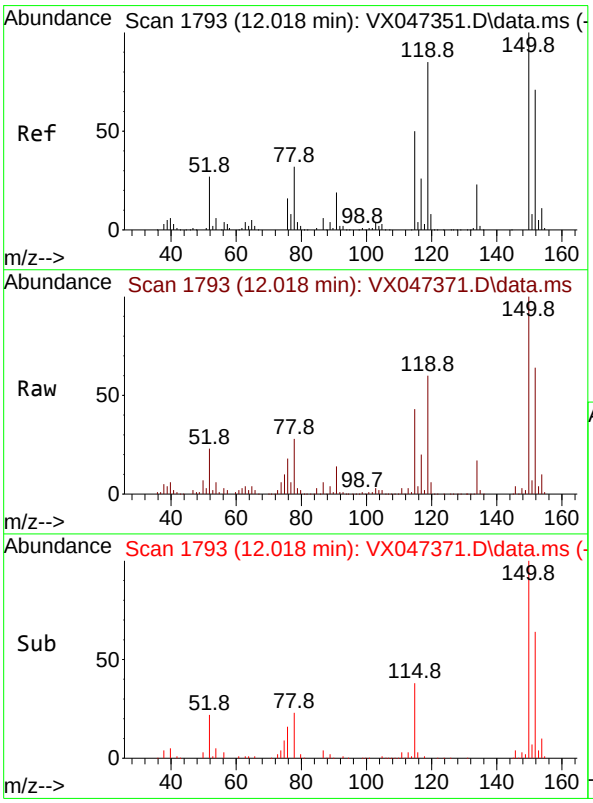
#71
Bromoform
Concen: 49.276 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 115849

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.4	73.4
254	0.0	0.1	0.1#

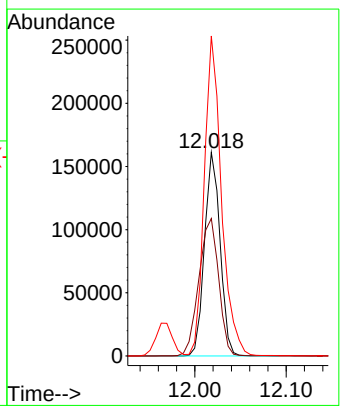


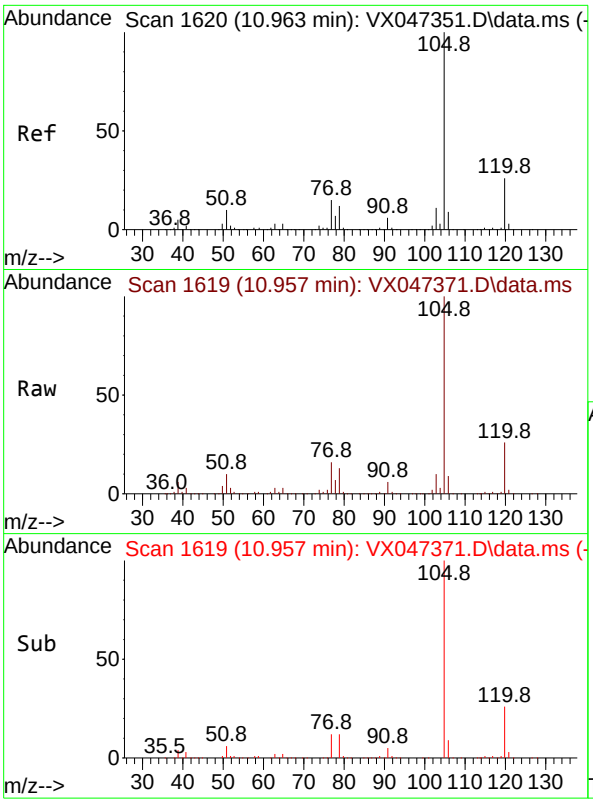


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:152 Resp: 190181

Ion	Ratio	Lower	Upper
152	100		
115	85.8	44.6	133.8
150	173.9	0.0	349.8



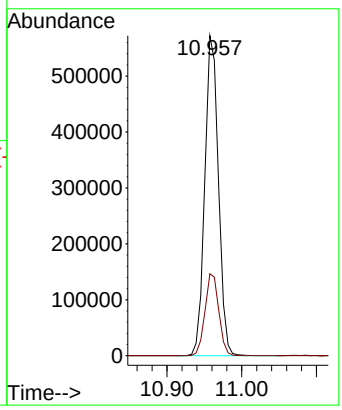


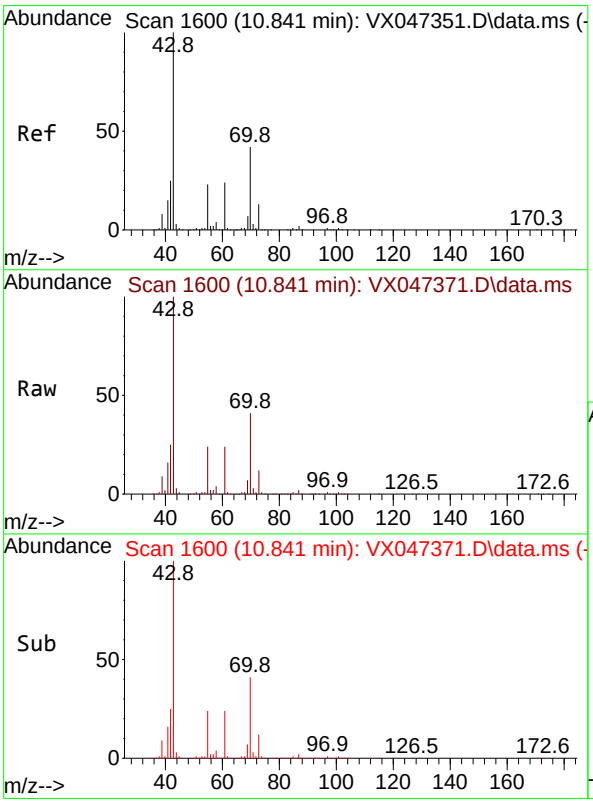
#73
Isopropylbenzene
Concen: 48.628 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 723706

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6

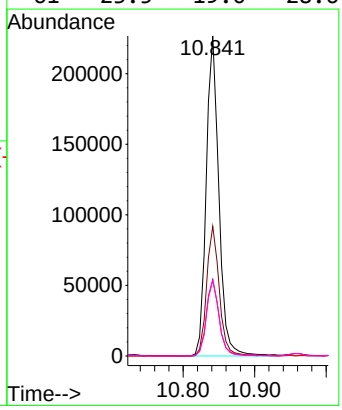


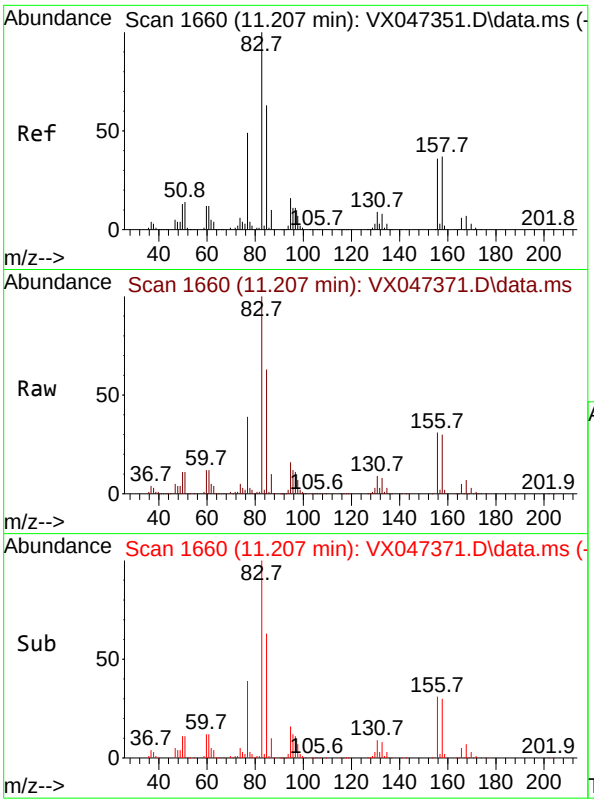


#74
N-amyl acetate
Concen: 49.291 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 43 Resp: 278569

Ion	Ratio	Lower	Upper
43	100		
70	40.5	33.1	49.7
55	24.3	19.0	28.6
61	23.5	19.0	28.6



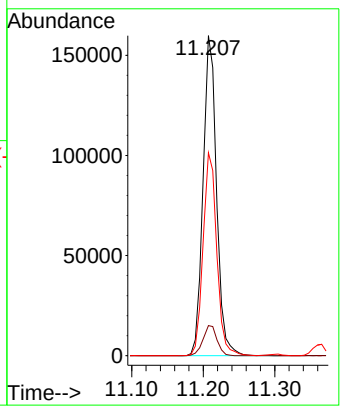


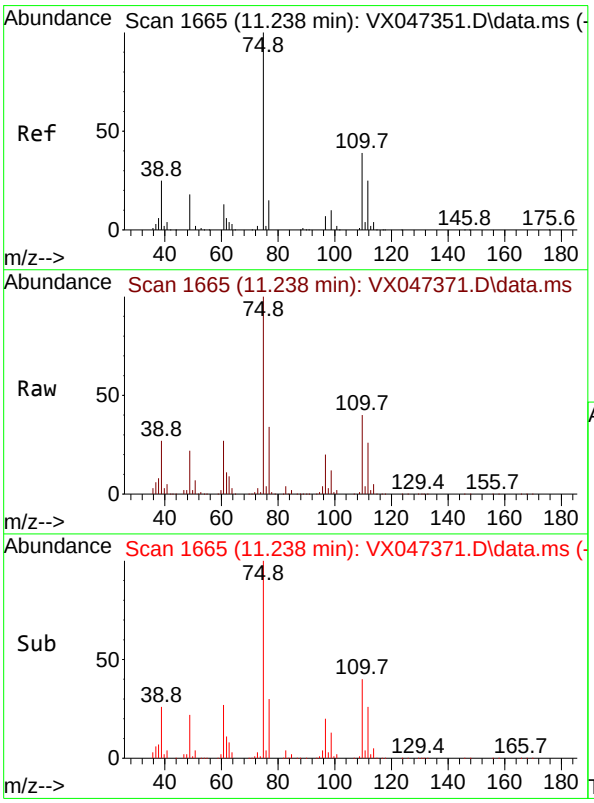
#75
1,1,2,2-Tetrachloroethane
Concen: 47.887 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 209247

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	15.0
85	64.4	31.7	95.1

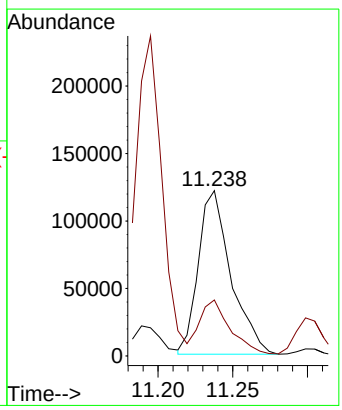


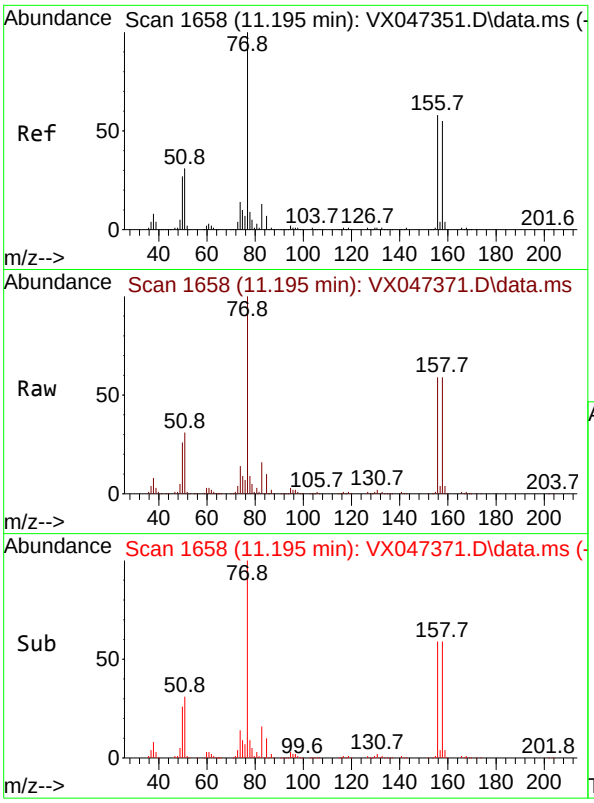


#76
1,2,3-Trichloropropane
Concen: 52.778 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 75 Resp: 184098

Ion	Ratio	Lower	Upper
75	100		
77	33.1	19.4	58.2



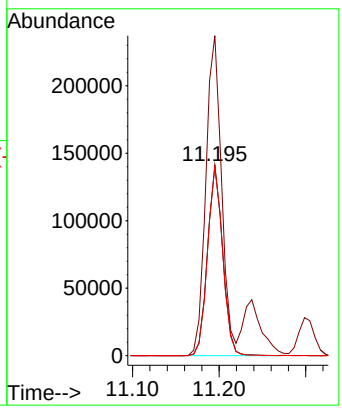


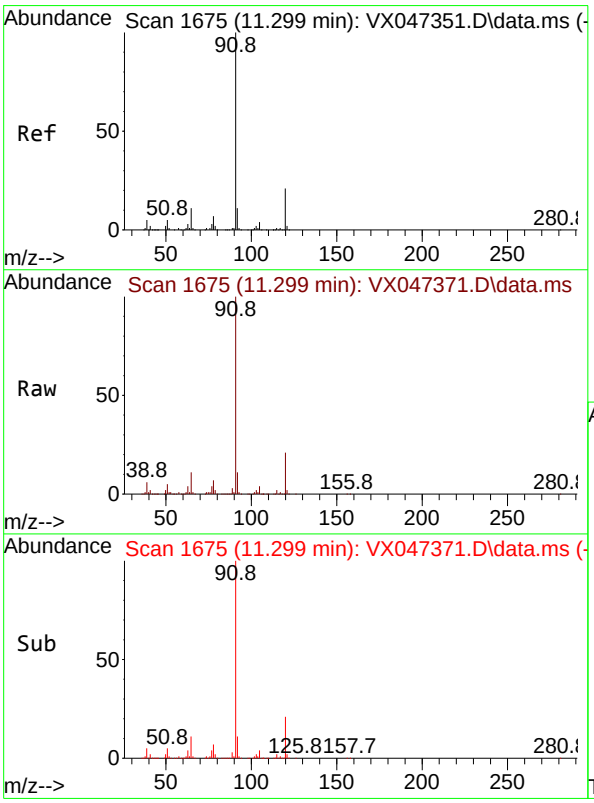
#77
Bromobenzene
Concen: 47.261 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 171756

Ion	Ratio	Lower	Upper
156	100		
77	173.9	86.3	258.9
158	99.3	48.0	144.2

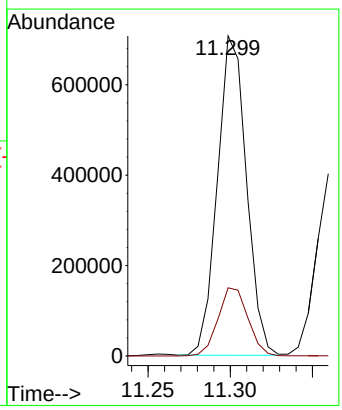


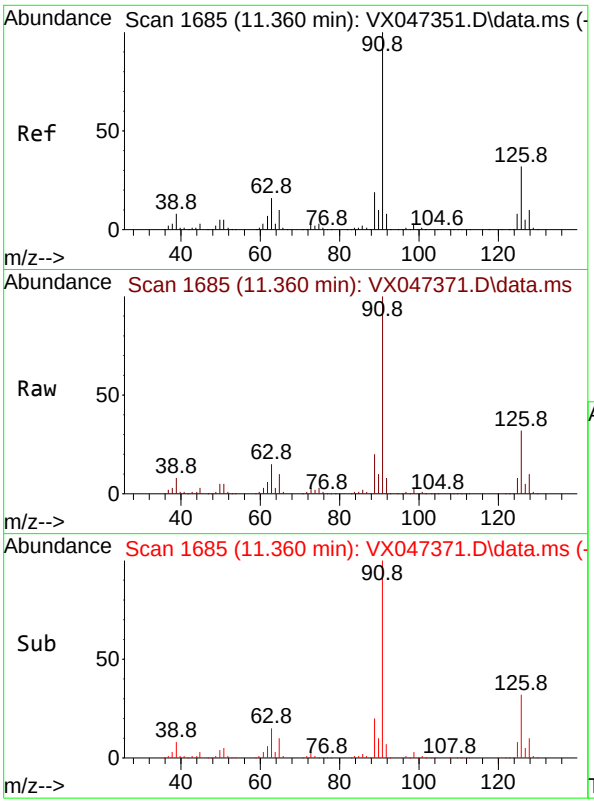


#78
n-propylbenzene
Concen: 48.892 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 91 Resp: 869019

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0



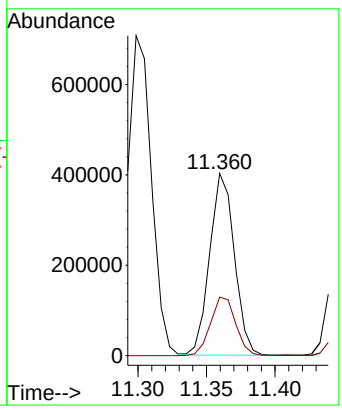


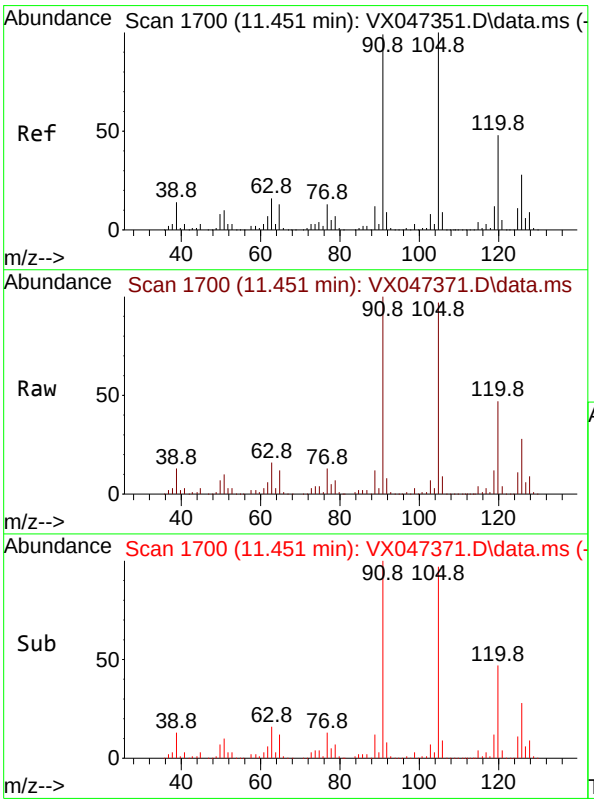
#79
2-Chlorotoluene
Concen: 46.898 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 503902

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.7	50.1

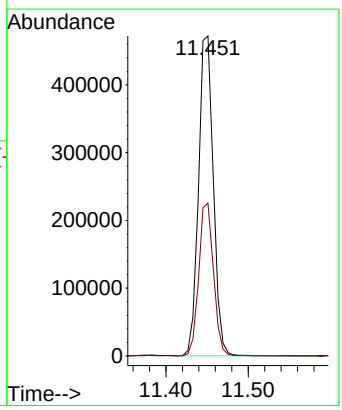


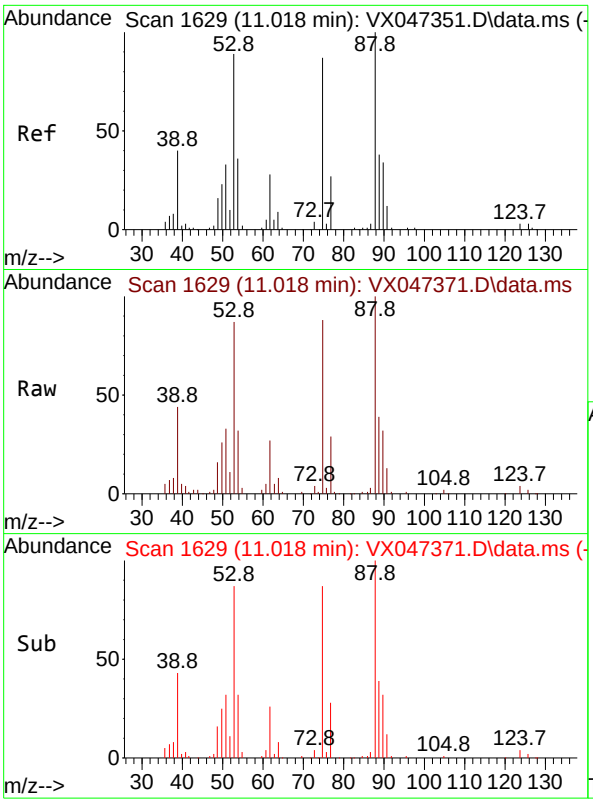


#80
1,3,5-Trimethylbenzene
Concen: 48.241 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:105 Resp: 590722

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.9	71.7



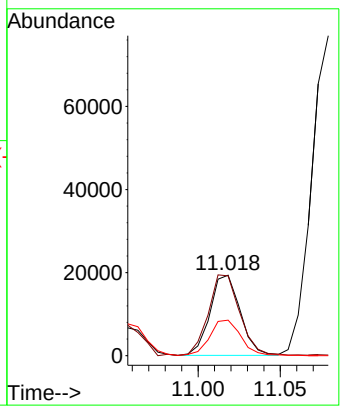


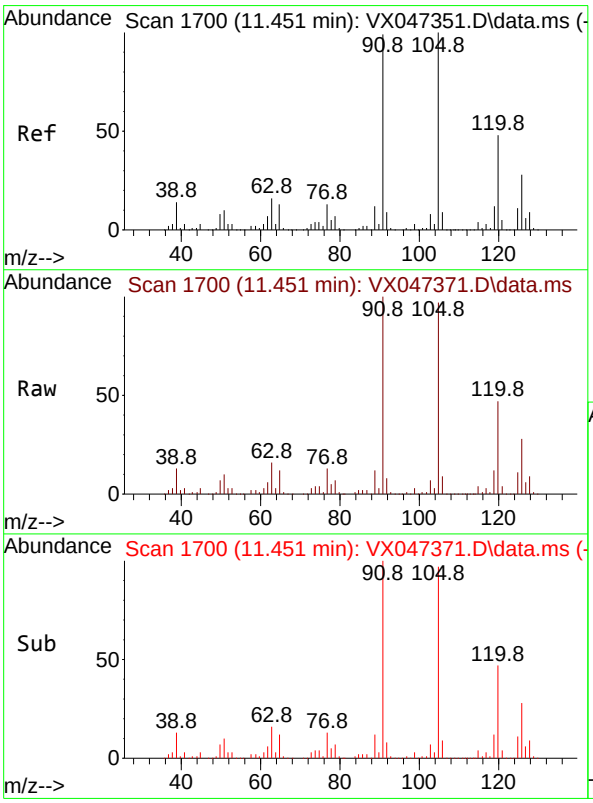
#81
trans-1,4-Dichloro-2-butene
Concen: 33.692 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 24594

Ion	Ratio	Lower	Upper
75	100		
53	105.0	85.2	127.8
89	46.1	36.7	55.1

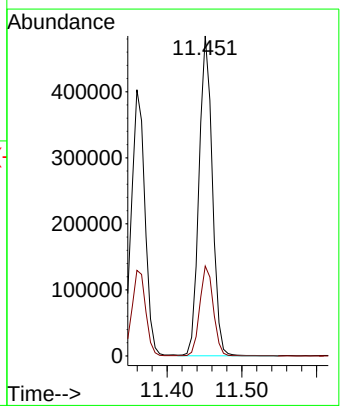


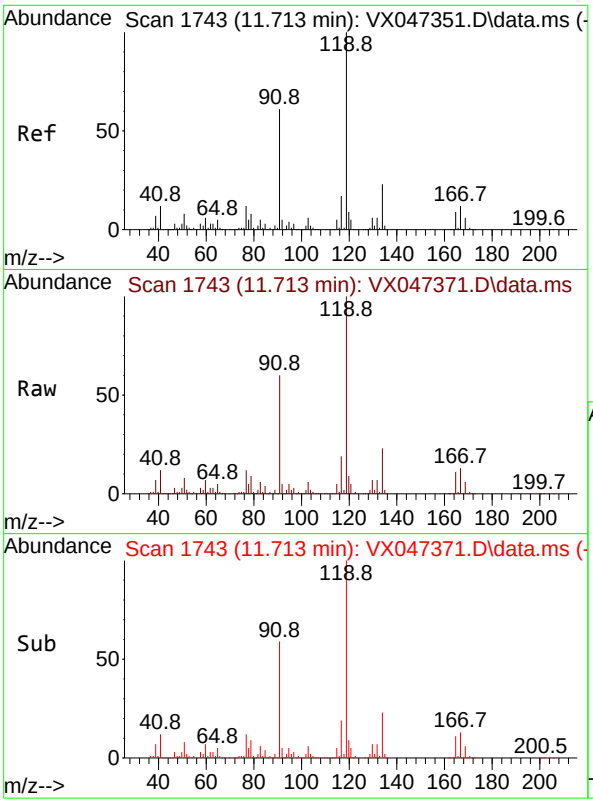


#82
4-Chlorotoluene
Concen: 47.174 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 91 Resp: 597497

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.4	43.0



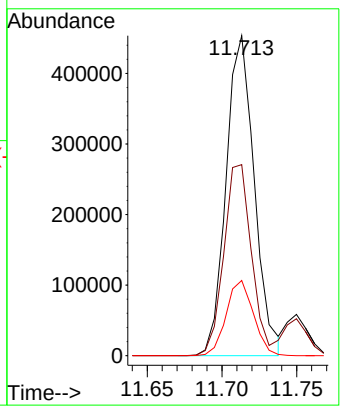


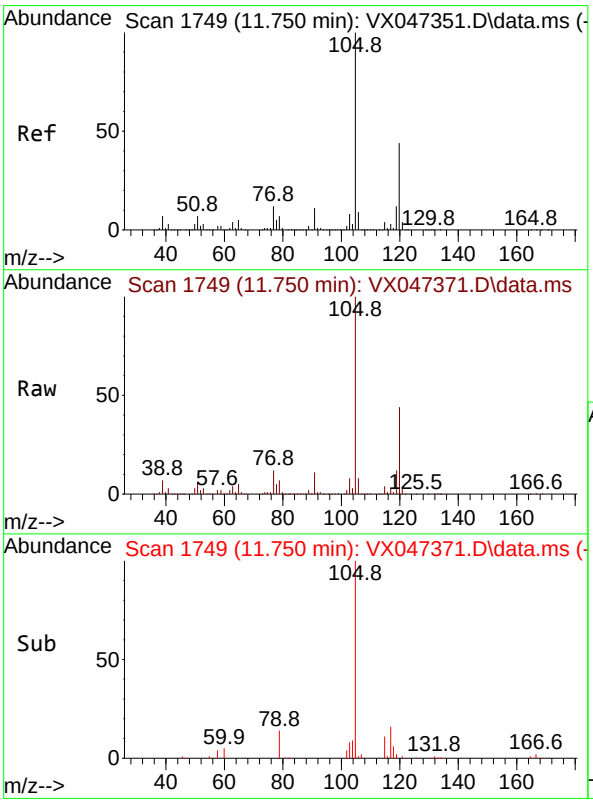
#83
tert-Butylbenzene
Concen: 48.866 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 596984

Ion	Ratio	Lower	Upper
119	100		
91	58.0	29.1	87.4
134	22.7	11.3	33.9

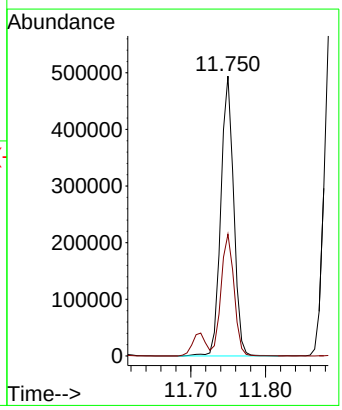


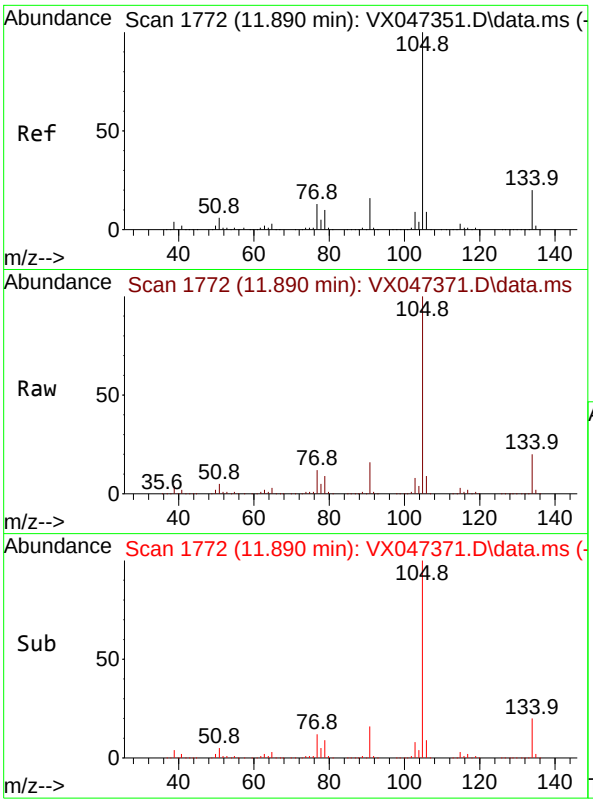


#84
1,2,4-Trimethylbenzene
Concen: 48.380 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:105 Resp: 592440

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.9	65.7



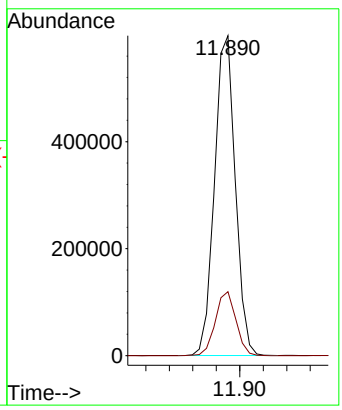


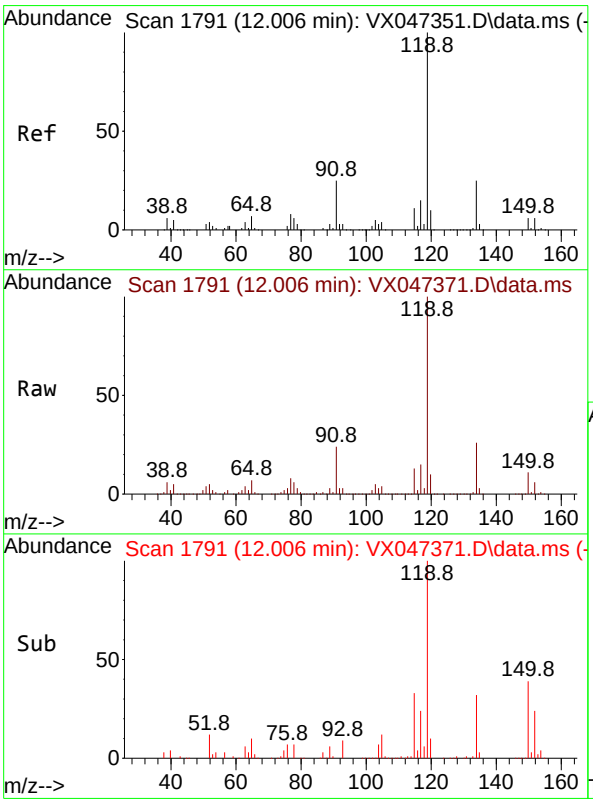
#85
sec-Butylbenzene
Concen: 48.547 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 735112

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5

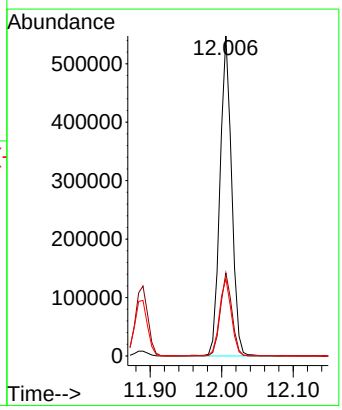


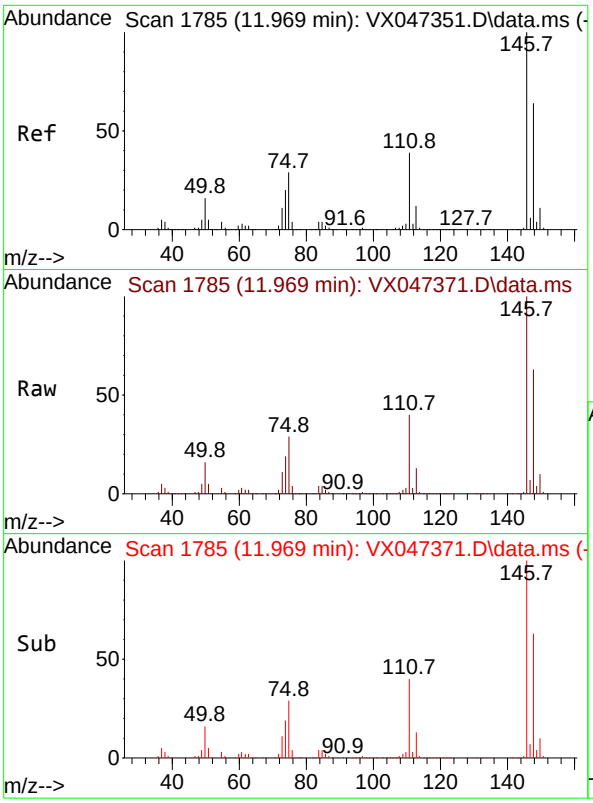


#86
p-Isopropyltoluene
Concen: 48.304 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:119 Resp: 618942

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.8	38.4
91	24.4	12.4	37.4



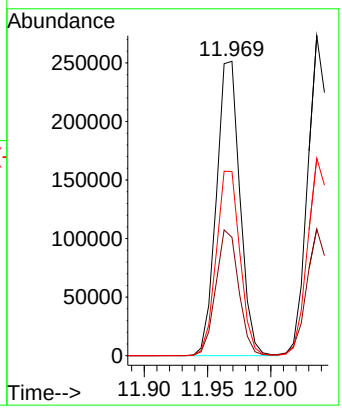


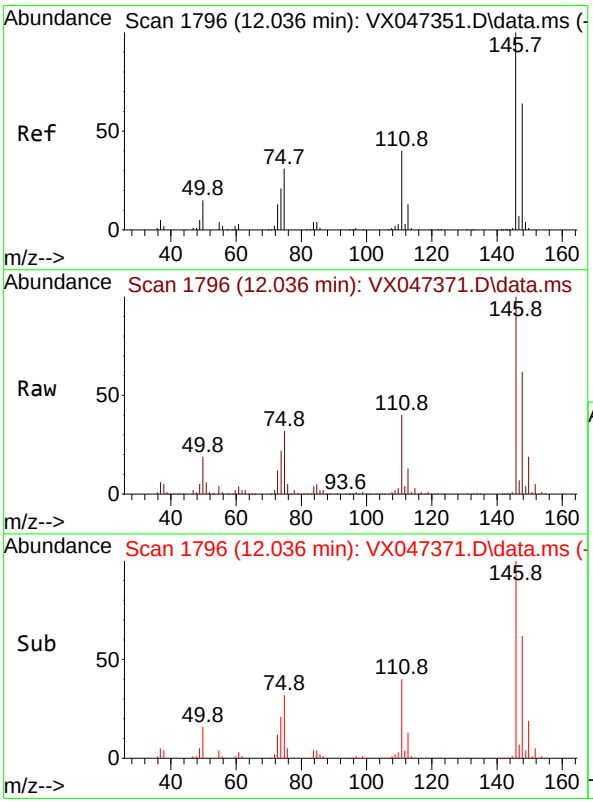
#87
1,3-Dichlorobenzene
Concen: 46.819 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 325052

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.6	61.8
148	63.3	31.9	95.5

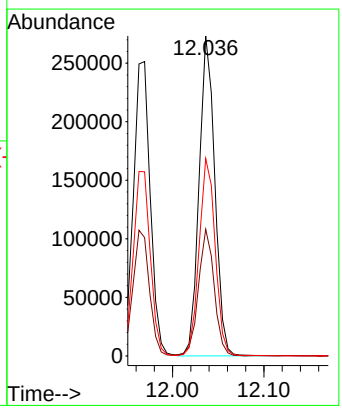


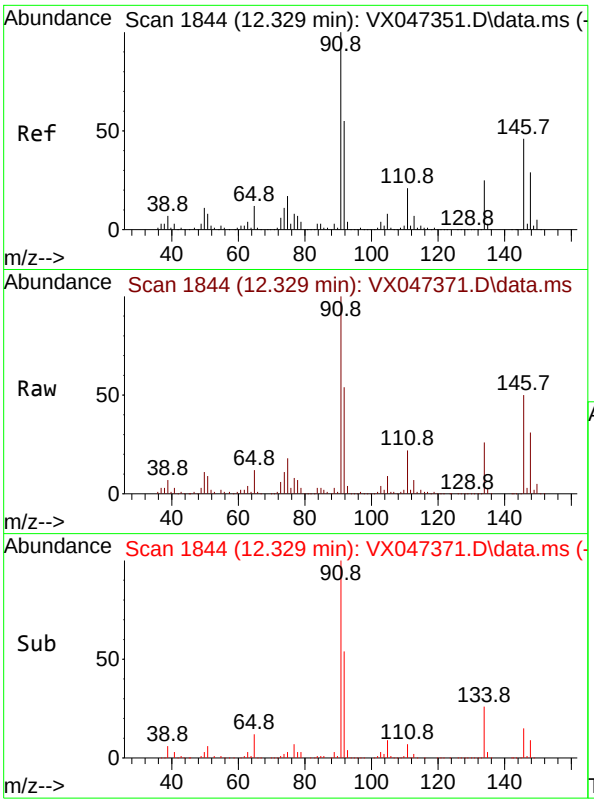


#88
1,4-Dichlorobenzene
Concen: 45.783 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:146 Resp: 326917

Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.4	61.2
148	63.3	31.7	95.1



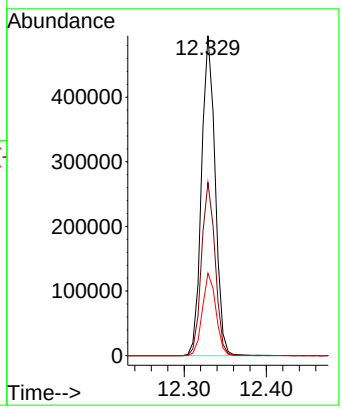


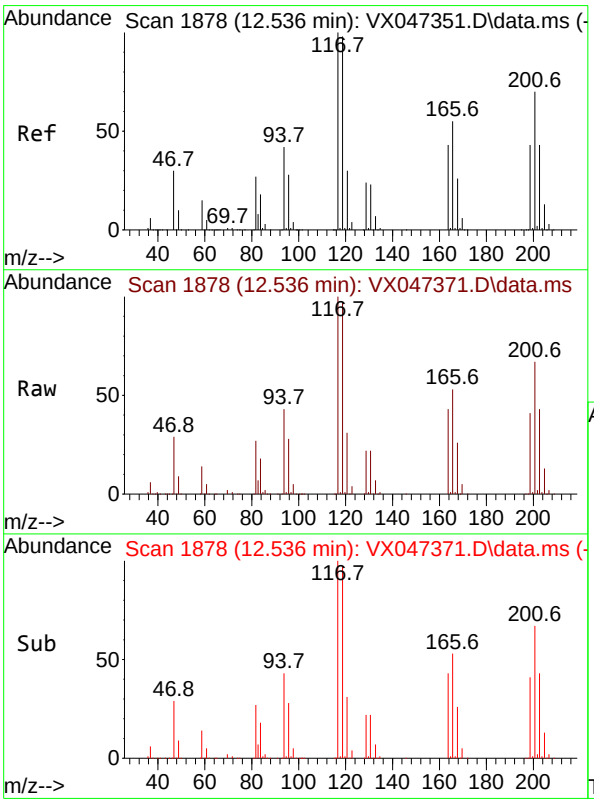
#89
n-Butylbenzene
Concen: 47.792 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 569584

Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.2	81.5
134	25.7	12.6	37.8

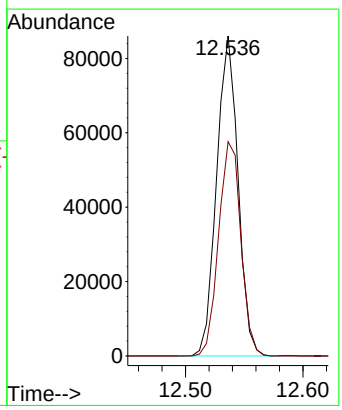


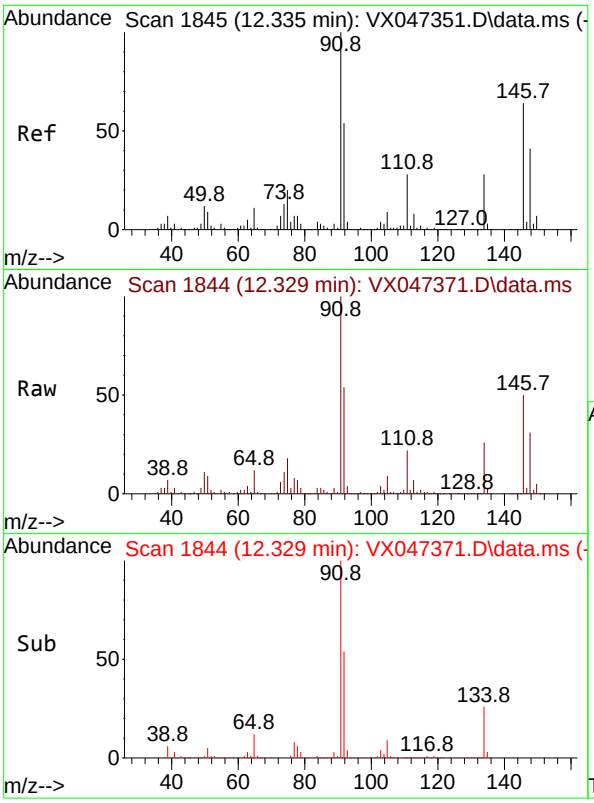


#90
Hexachloroethane
Concen: 48.462 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:117 Resp: 108936

Ion	Ratio	Lower	Upper
117	100		
201	69.8	35.1	105.3



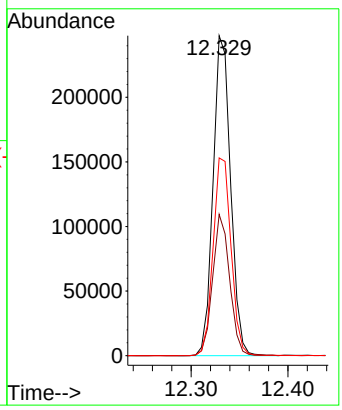


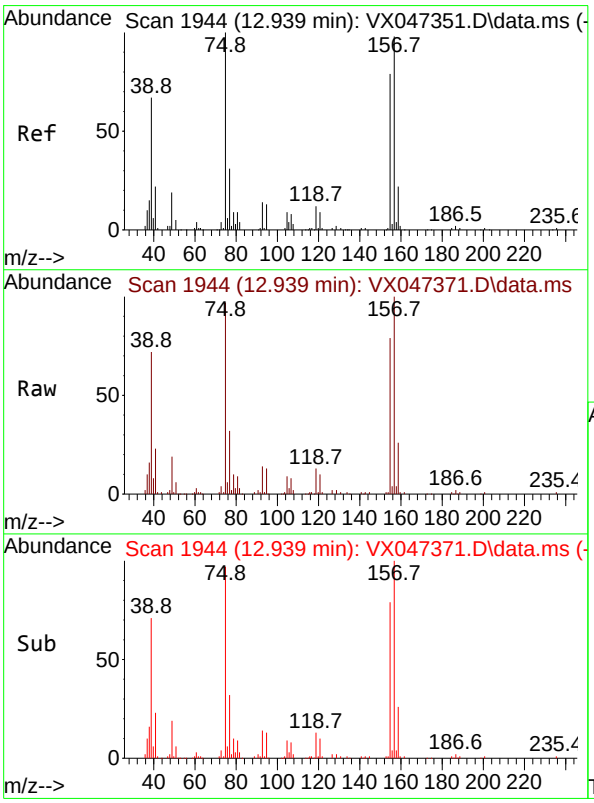
#91
1,2-Dichlorobenzene
Concen: 47.206 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 311081

Ion	Ratio	Lower	Upper
146	100		
111	43.0	22.1	66.1
148	63.6	31.9	95.5

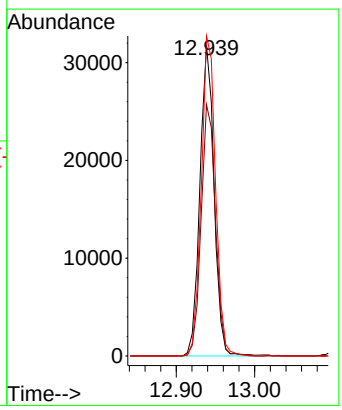


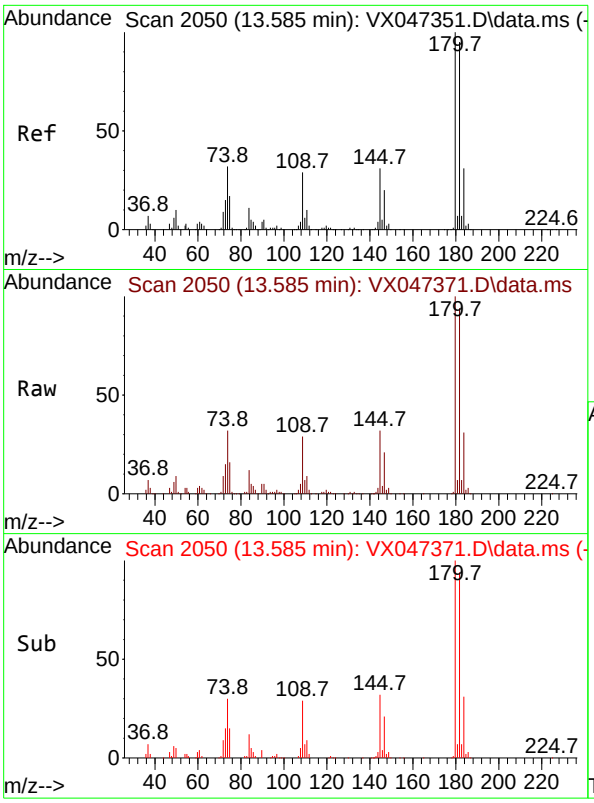


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.241 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion: 75 Resp: 39921

Ion	Ratio	Lower	Upper
75	100		
155	82.1	41.3	123.7
157	103.5	51.5	154.5



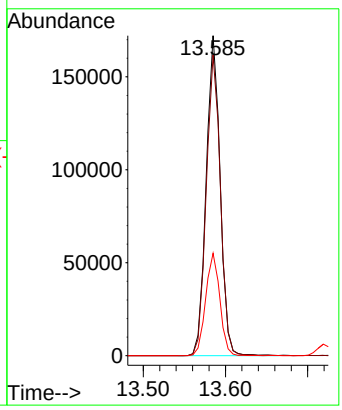


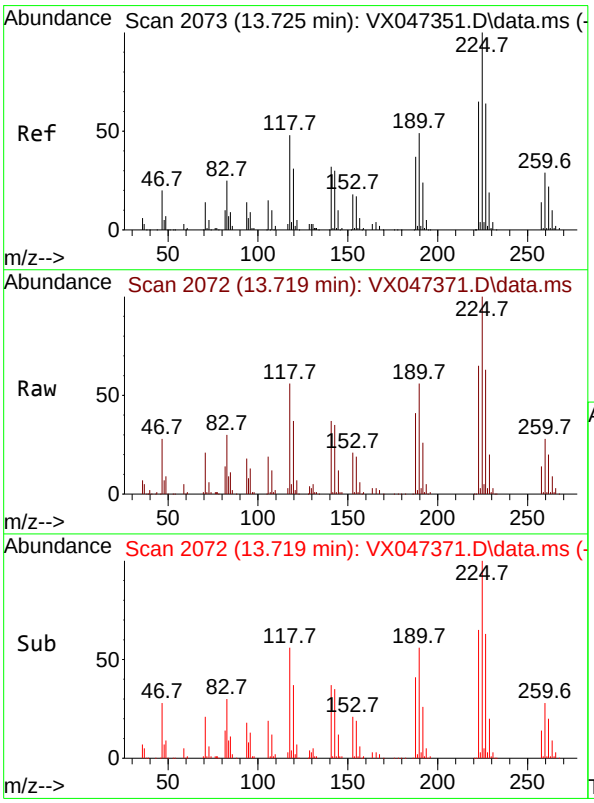
#93
1,2,4-Trichlorobenzene
Concen: 45.933 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 202922

Ion	Ratio	Lower	Upper
180	100		
182	95.0	48.1	144.4
145	32.5	16.2	48.5

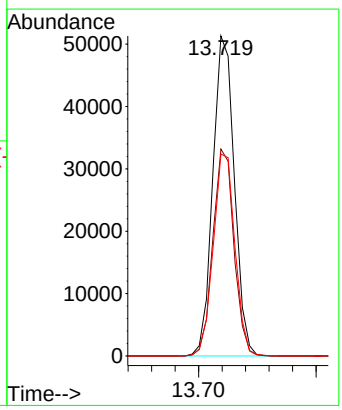


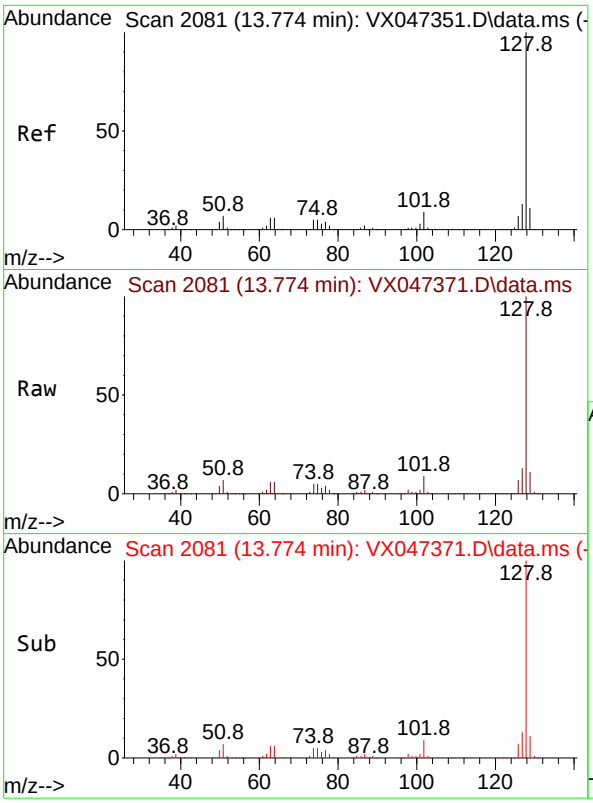


#94
Hexachlorobutadiene
Concen: 41.446 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:225 Resp: 65173

Ion	Ratio	Lower	Upper
225	100		
223	63.4	32.2	96.6
227	63.8	31.6	95.0



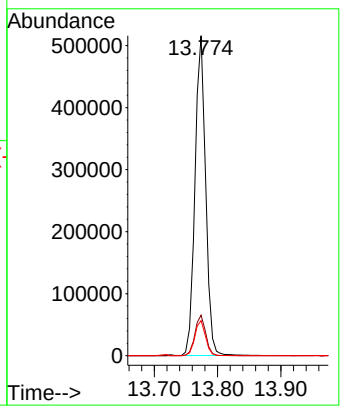


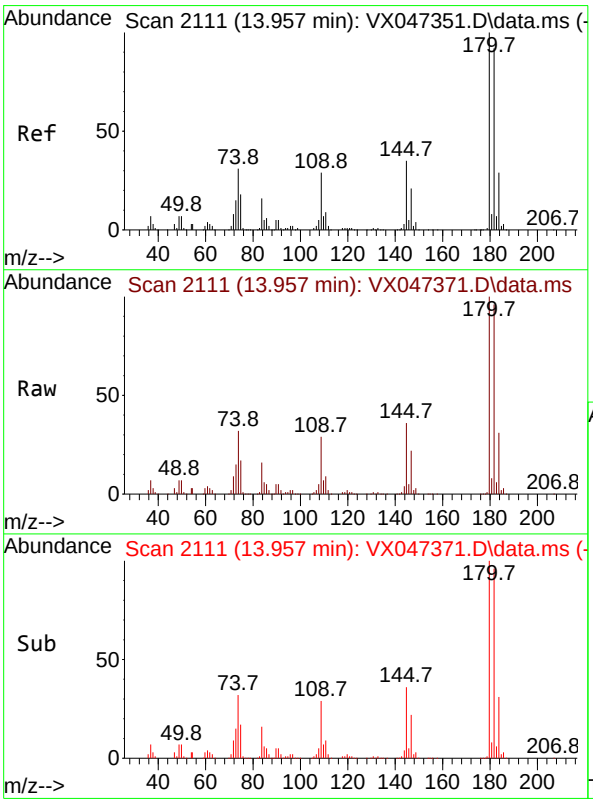
#95
Naphthalene
Concen: 47.948 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 605337

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	11.0	8.7	13.1

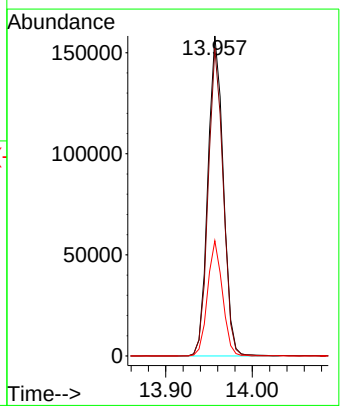




#96
1,2,3-Trichlorobenzene
Concen: 47.001 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047371.D
Acq: 18 Aug 2025 10:00

Tgt Ion:180 Resp: 195721

Ion	Ratio	Lower	Upper
180	100		
182	93.9	48.0	144.2
145	34.7	17.4	52.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047374.D
Acq On : 18 Aug 2025 12:17
Operator : JC/MD
Sample : VX0818WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Quant Time: Aug 19 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.562	168	256302	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.769	114	426348	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	389002	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	197596	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.958	65	178254	49.694	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117			Recovery = 99.380%			
35) Dibromofluoromethane	5.391	113	142113	51.359	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124			Recovery = 102.720%			
50) Toluene-d8	8.647	98	501625	50.720	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112			Recovery = 101.440%			
62) 4-Bromofluorobenzene	11.079	95	190251	52.129	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123			Recovery = 104.260%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.185	85	67016	20.511	ug/l		99
3) Chloromethane	1.313	50	66512	22.629	ug/l		96
4) Vinyl Chloride	1.392	62	70527	19.117	ug/l	#	34
5) Bromomethane	1.630	94	20713	13.900	ug/l		91
6) Chloroethane	1.703	64	60368	26.745	ug/l		96
7) Trichlorofluoromethane	1.904	101	107298	19.663	ug/l		99
8) Diethyl Ether	2.148	74	36957	19.234	ug/l		97
9) 1,1,2-Trichlorotrifluo...	2.349	101	64346	20.328	ug/l		98
10) Methyl Iodide	2.471	142	82052	15.126	ug/l		97
11) Tert butyl alcohol	2.959	59	31857	102.089	ug/l		98
12) 1,1-Dichloroethene	2.337	96	64232	19.904	ug/l		95
13) Acrolein	2.245	56	613	0.931	ug/l	#	33
14) Allyl chloride	2.678	41	91338	16.296	ug/l		96
15) Acrylonitrile	3.075	53	148399	98.415	ug/l		98
16) Acetone	2.386	43	131812	97.762	ug/l		98
17) Carbon Disulfide	2.532	76	205259	21.078	ug/l		99
18) Methyl Acetate	2.715	43	70302	20.121	ug/l		100
19) Methyl tert-butyl Ether	3.123	73	187203	19.069	ug/l		97
20) Methylene Chloride	2.806	84	68704	19.243	ug/l		98
21) trans-1,2-Dichloroethene	3.105	96	65926	19.248	ug/l		96
22) Diisopropyl ether	3.770	45	221531	19.995	ug/l		92
23) Vinyl Acetate	3.733	43	885489	97.510	ug/l		98
24) 1,1-Dichloroethane	3.623	63	121482	19.399	ug/l		99
25) 2-Butanone	4.568	43	175245	99.242	ug/l		97
26) 2,2-Dichloropropane	4.483	77	87410	18.494	ug/l		99
27) cis-1,2-Dichloroethene	4.501	96	76181	19.096	ug/l		100
28) Bromochloromethane	4.910	49	50307	19.305	ug/l		98
29) Tetrahydrofuran	5.025	42	110222	96.574	ug/l		97
30) Chloroform	5.099	83	127625	19.969	ug/l		100
31) Cyclohexane	5.483	56	114604	19.853	ug/l		93
32) 1,1,1-Trichloroethane	5.397	97	108545	19.732	ug/l		98
36) 1,1-Dichloropropene	5.702	75	88168	20.185	ug/l		99
37) Ethyl Acetate	4.727	43	84412	18.615	ug/l		99
38) Carbon Tetrachloride	5.684	117	97536	20.434	ug/l		96
39) Methylcyclohexane	7.385	83	108722	19.955	ug/l		96
40) Benzene	6.044	78	262740	20.096	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047374.D
Acq On : 18 Aug 2025 12:17
Operator : JC/MD
Sample : VX0818WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Quant Time: Aug 19 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	37848	19.793	ug/l		98
42) 1,2-Dichloroethane	6.092	62	95188	20.554	ug/l		100
43) Isopropyl Acetate	6.342	43	127724	19.606	ug/l		99
44) Trichloroethene	7.129	130	66400	19.835	ug/l		99
45) 1,2-Dichloropropane	7.434	63	64842	19.797	ug/l		96
46) Dibromomethane	7.586	93	47290	19.887	ug/l		99
47) Bromodichloromethane	7.824	83	100235	20.333	ug/l		99
48) Methyl methacrylate	7.696	41	65407	19.343	ug/l		99
49) 1,4-Dioxane	7.690	88	11672	355.080	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	384202	102.487	ug/l		98
52) Toluene	8.720	92	165801	20.523	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	84674	19.681	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	95068	19.522	ug/l		99
55) 1,1,2-Trichloroethane	9.153	97	62518	20.382	ug/l		99
56) Ethyl methacrylate	9.116	69	88182	19.499	ug/l		98
57) 1,3-Dichloropropane	9.305	76	105761	20.234	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	182812	90.181	ug/l		98
59) 2-Hexanone	9.433	43	260233	100.356	ug/l		99
60) Dibromochloromethane	9.519	129	74313	20.386	ug/l		100
61) 1,2-Dibromoethane	9.610	107	62983	19.912	ug/l		97
64) Tetrachloroethene	9.275	164	56403	20.046	ug/l		94
65) Chlorobenzene	10.079	112	182846	19.780	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	61571	19.703	ug/l		99
67) Ethyl Benzene	10.189	91	317013	19.925	ug/l		98
68) m/p-Xylenes	10.299	106	241301	40.673	ug/l		99
69) o-Xylene	10.640	106	114422	20.042	ug/l		99
70) Styrene	10.652	104	194838	20.197	ug/l		99
71) Bromoform	10.799	173	47781	20.353	ug/l	#	98
73) Isopropylbenzene	10.957	105	305580	19.762	ug/l		100
74) N-amyl acetate	10.841	43	113146	19.269	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	87881	19.357	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	77206	21.303	ug/l		90
77) Bromobenzene	11.195	156	74393	19.702	ug/l		98
78) n-propylbenzene	11.305	91	367285	19.888	ug/l		100
79) 2-Chlorotoluene	11.360	91	218232	19.548	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	250724	19.707	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	6799	14.737	ug/l		98
82) 4-Chlorotoluene	11.451	91	256557	19.496	ug/l		100
83) tert-Butylbenzene	11.713	119	254465	20.048	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	256880	20.190	ug/l		98
85) sec-Butylbenzene	11.890	105	317850	20.203	ug/l		100
86) p-Isopropyltoluene	12.006	119	266082	19.987	ug/l		99
87) 1,3-Dichlorobenzene	11.963	146	140744	19.511	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	141033	19.010	ug/l		99
89) n-Butylbenzene	12.329	91	245865	19.856	ug/l		99
90) Hexachloroethane	12.536	117	43179	18.488	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	132017	19.282	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	16513	18.808	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	87089	18.974	ug/l		99
94) Hexachlorobutadiene	13.719	225	29173	17.856	ug/l		99
95) Naphthalene	13.774	128	252094	19.219	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	82149	18.987	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047374.D
Acq On : 18 Aug 2025 12:17
Operator : JC/MD
Sample : VX0818WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Quant Time: Aug 19 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

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

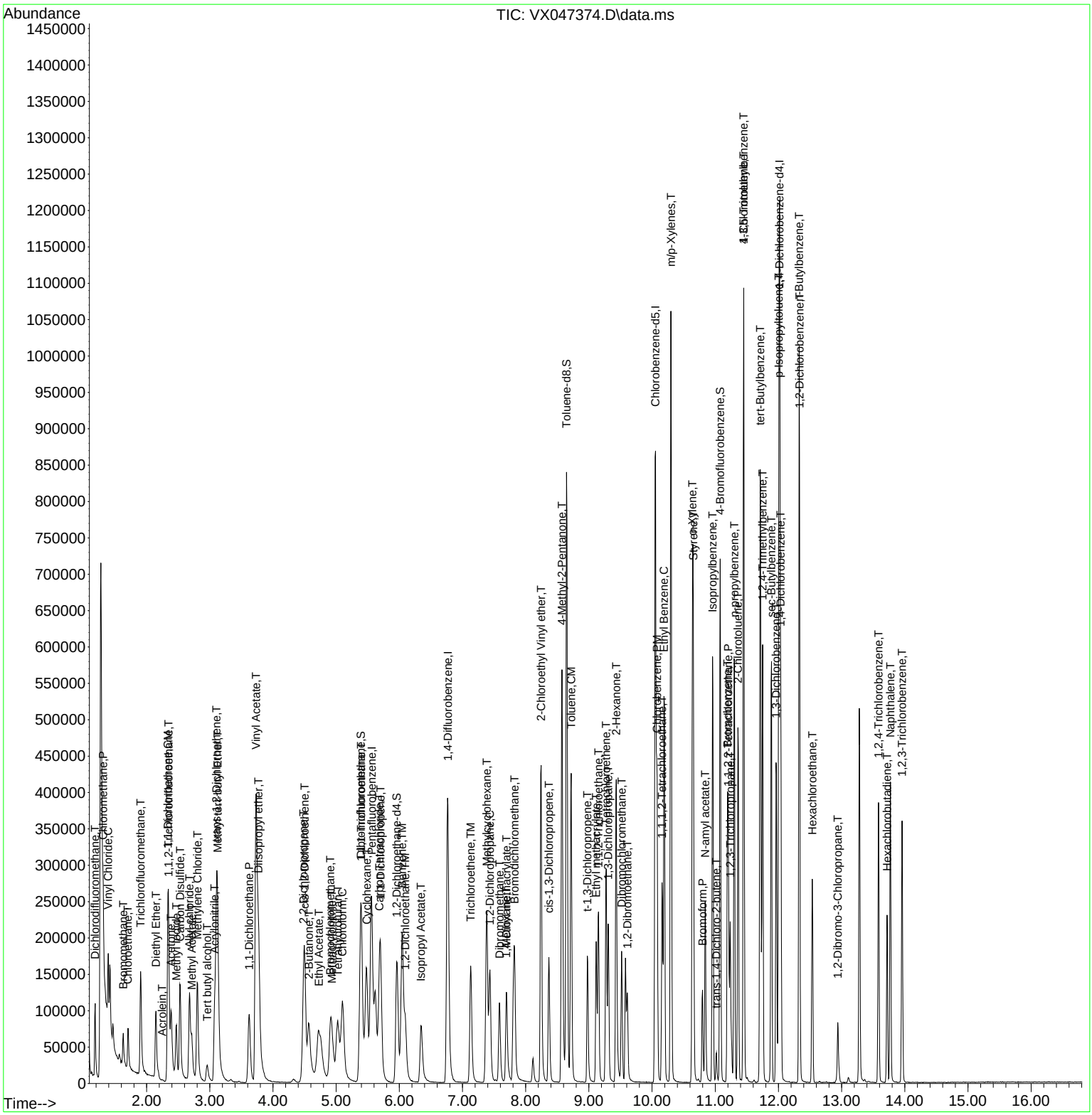
(#) = qualifier out of range (m) = manual integration (+) = signals summed

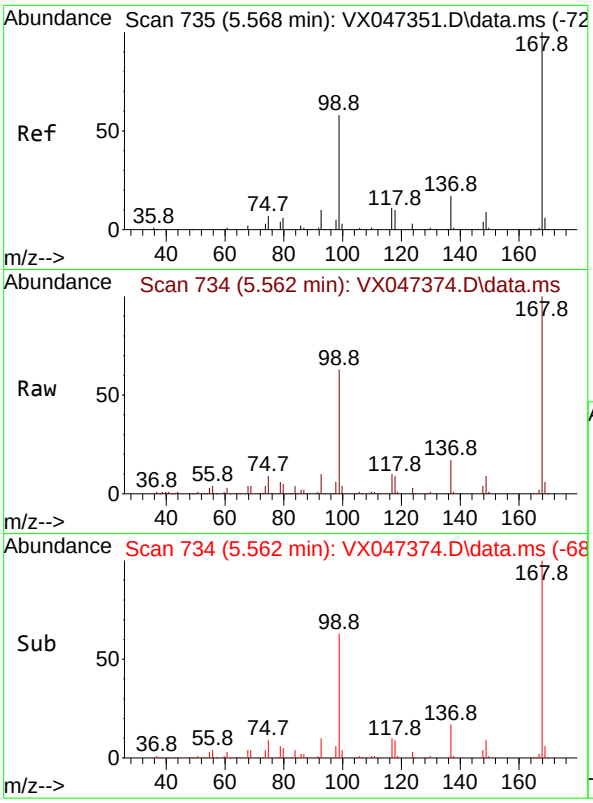
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047374.D
Acq On : 18 Aug 2025 12:17
Operator : JC/MD
Sample : VX0818WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Quant Time: Aug 19 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



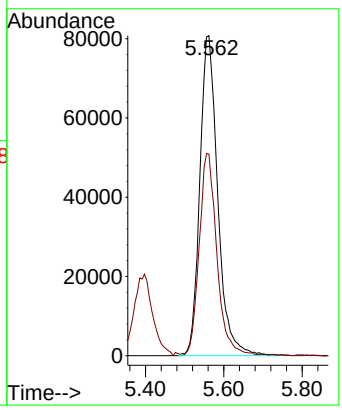


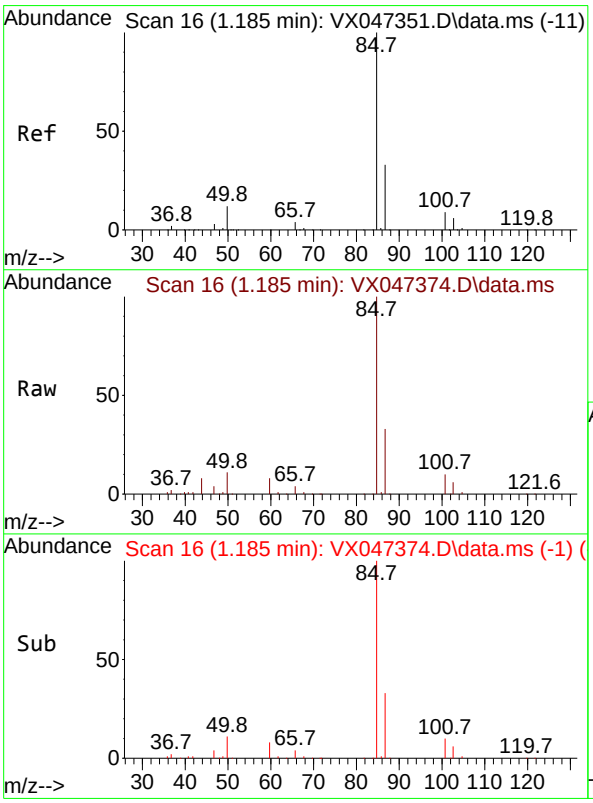
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:168 Resp: 256302

Ion	Ratio	Lower	Upper
168	100		
99	62.8	47.9	71.9

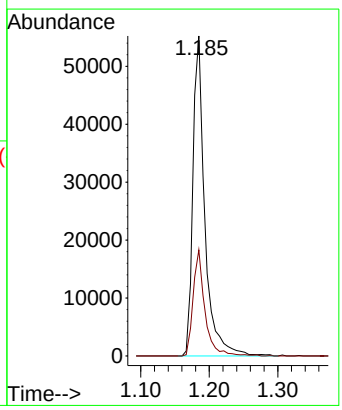


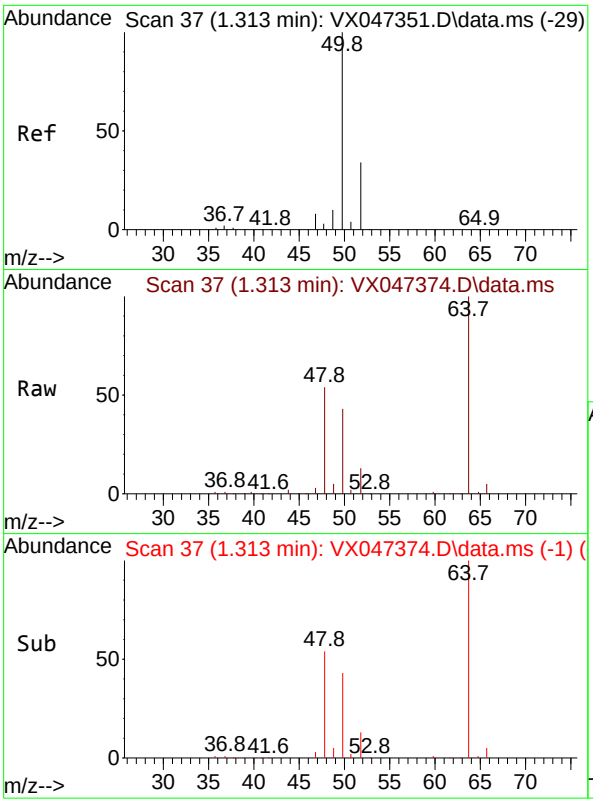


#2
Dichlorodifluoromethane
Concen: 20.511 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 85 Resp: 67016

Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.4	49.1



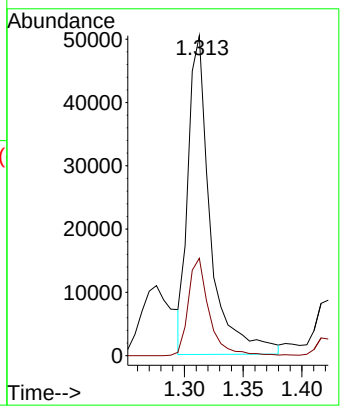


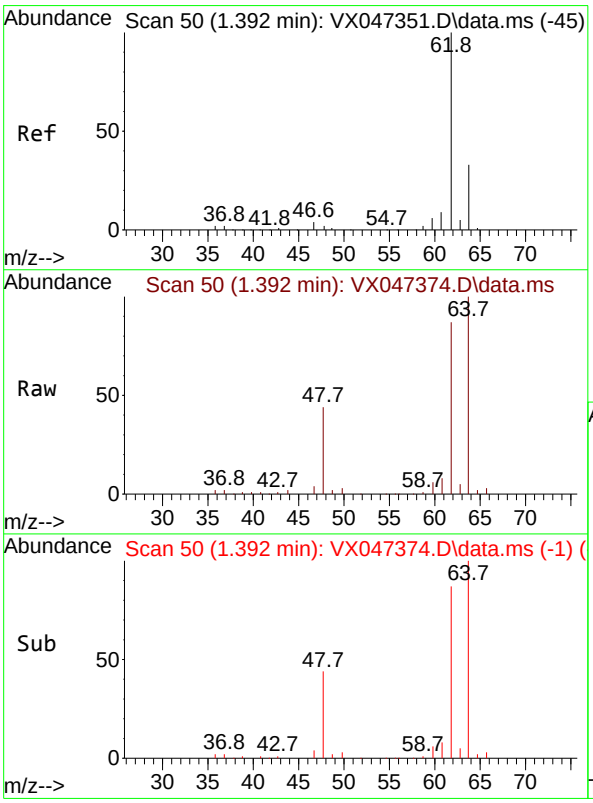
#3
Chloromethane
Concen: 22.629 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 50 Resp: 66512

Ion	Ratio	Lower	Upper
50	100		
52	31.3	27.0	40.4

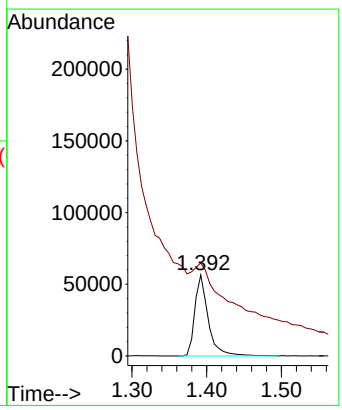


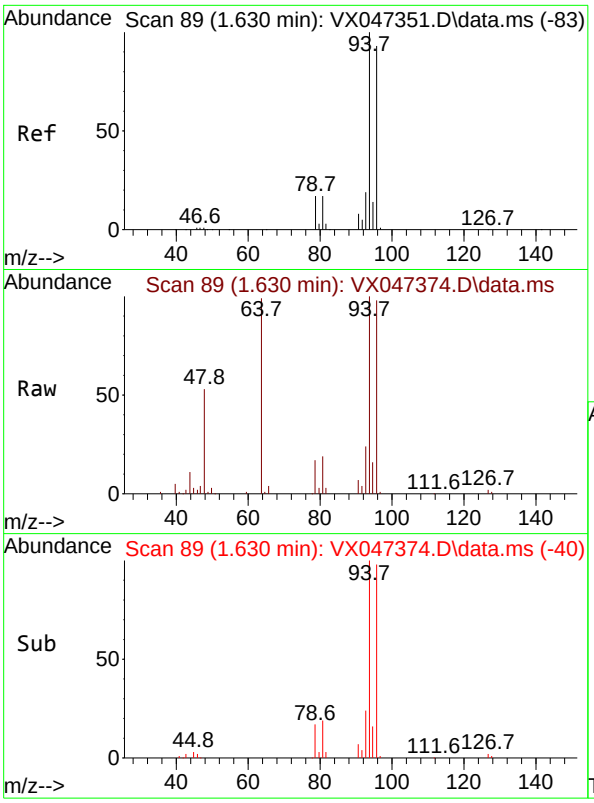


#4
Vinyl Chloride
Concen: 19.117 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 62 Resp: 70527

Ion	Ratio	Lower	Upper
62	100		
64	70.4	26.5	39.7#



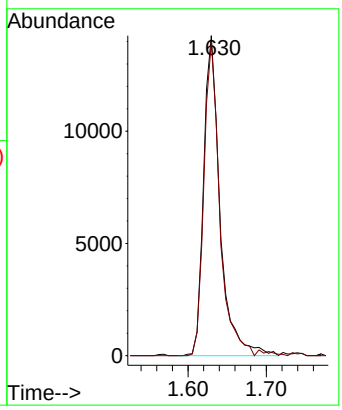


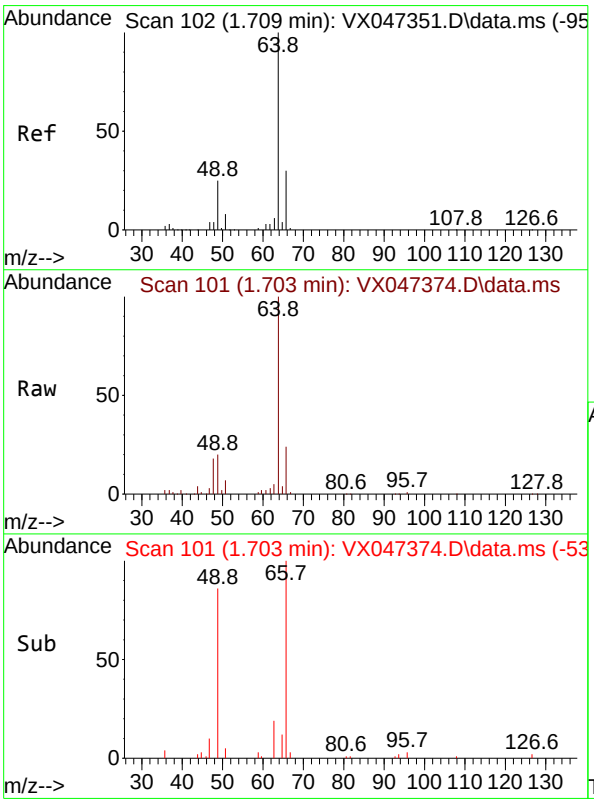
#5
Bromomethane
Concen: 13.900 ug/l
RT: 1.630 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 94 Resp: 20713

Ion	Ratio	Lower	Upper
94	100		
96	84.5	74.7	112.1

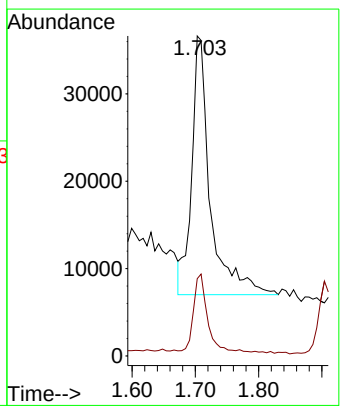


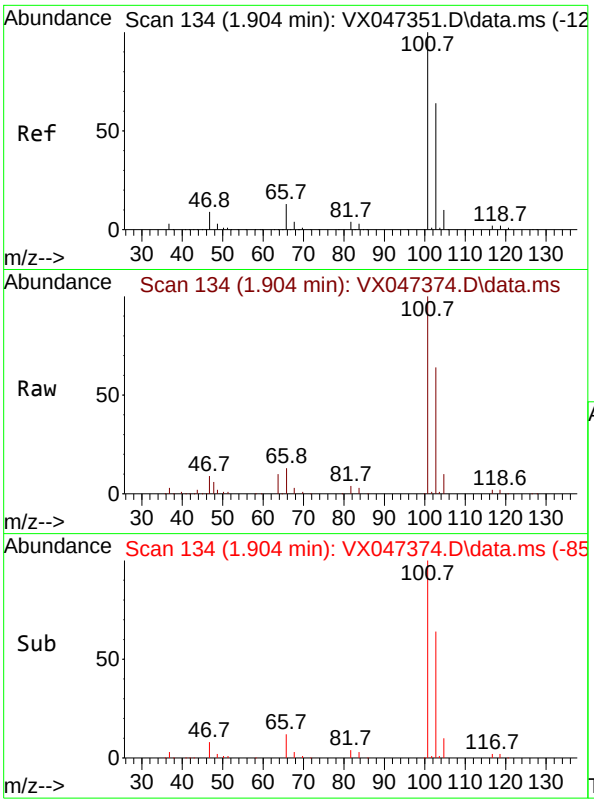


#6
Chloroethane
Concen: 26.745 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 64 Resp: 60368

Ion	Ratio	Lower	Upper
64	100		
66	28.4	24.4	36.6



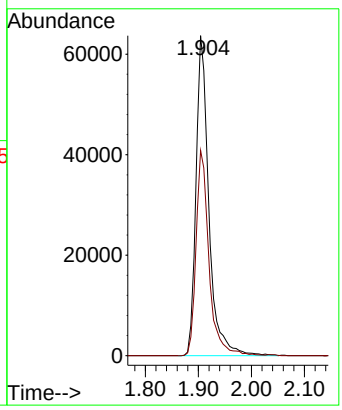


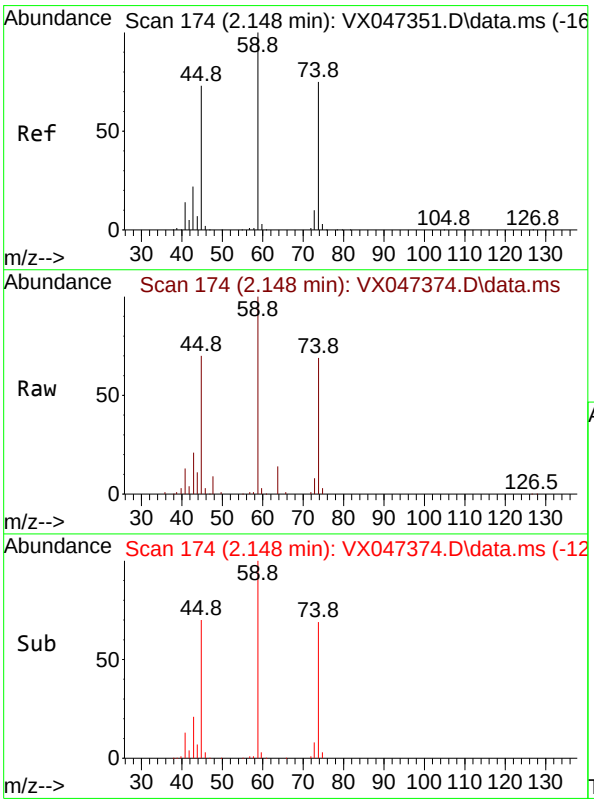
#7
Trichlorofluoromethane
Concen: 19.663 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:101 Resp: 107298

Ion	Ratio	Lower	Upper
101	100		
103	64.2	50.9	76.3

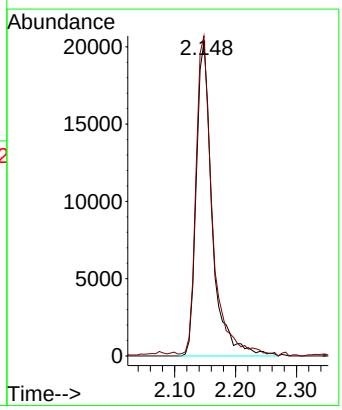


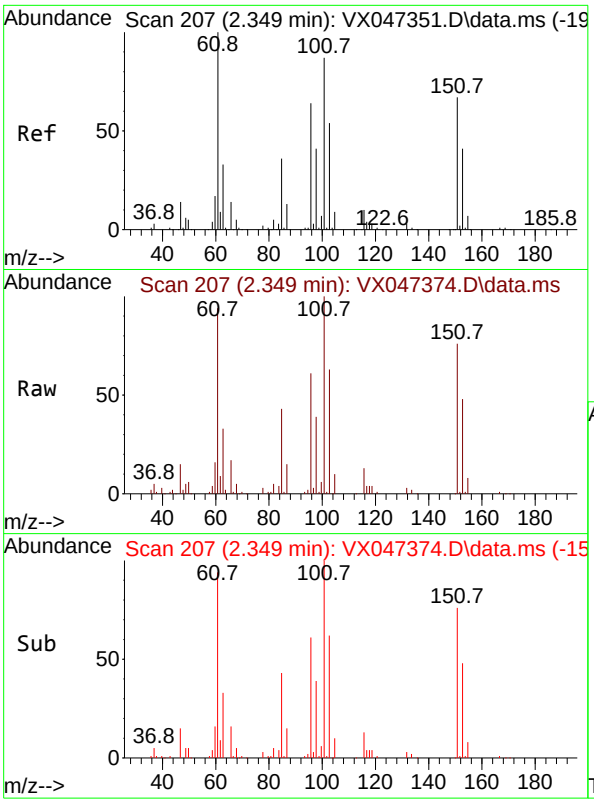


#8
Diethyl Ether
Concen: 19.234 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 74 Resp: 36957

Ion	Ratio	Lower	Upper
74	100		
45	105.3	51.3	154.0



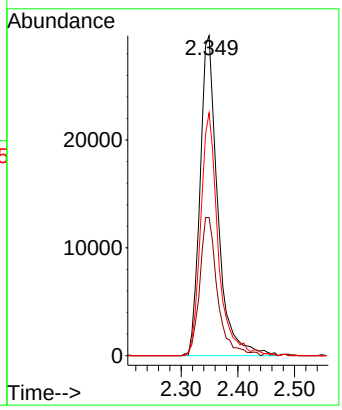


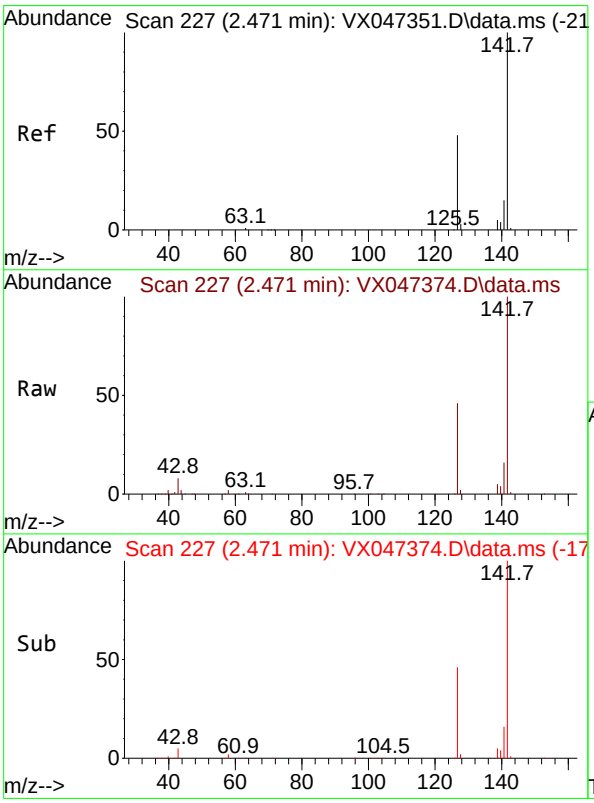
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.328 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:101 Resp: 64346

Ion	Ratio	Lower	Upper
101	100		
85	43.6	34.3	51.5
151	75.5	59.2	88.8

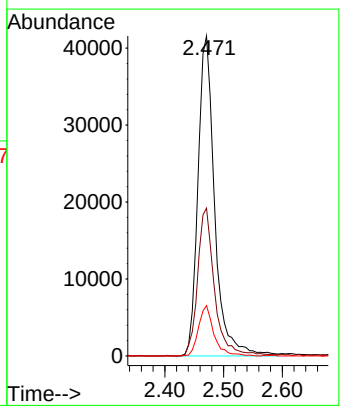


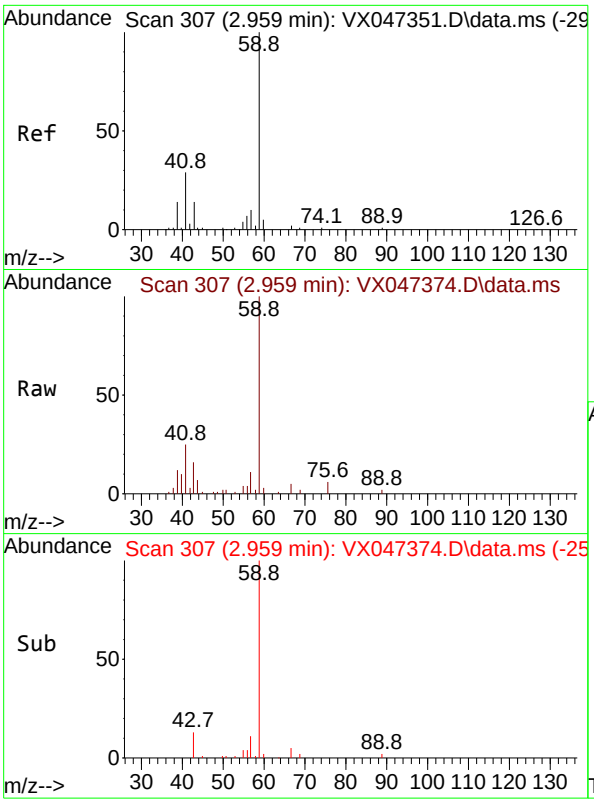


#10
Methyl Iodide
Concen: 15.126 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:142 Resp: 82052

Ion	Ratio	Lower	Upper
142	100		
127	47.0	36.1	54.1
141	14.5	11.1	16.7



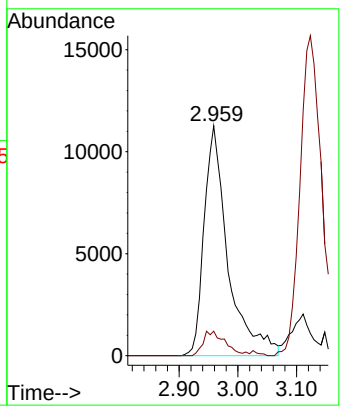


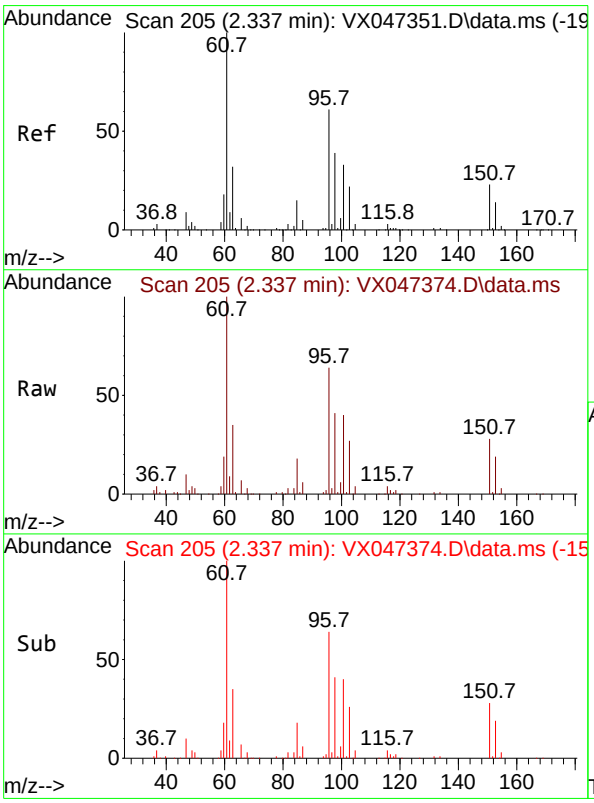
#11
Tert butyl alcohol
Concen: 102.089 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 59 Resp: 31857

Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.3	12.5

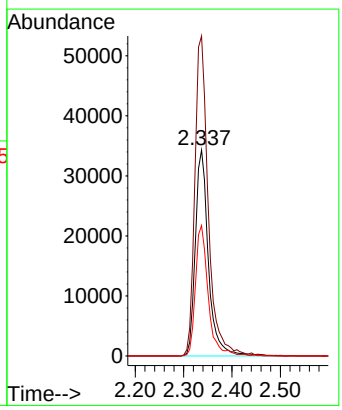


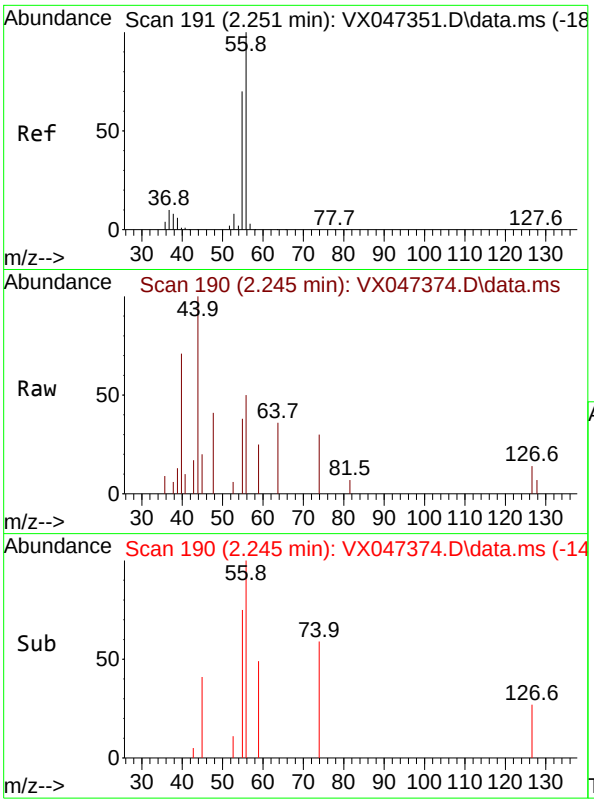


#12
1,1-Dichloroethene
Concen: 19.904 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 96 Resp: 64232

Ion	Ratio	Lower	Upper
96	100		
61	155.4	132.2	198.2
98	63.3	51.2	76.8



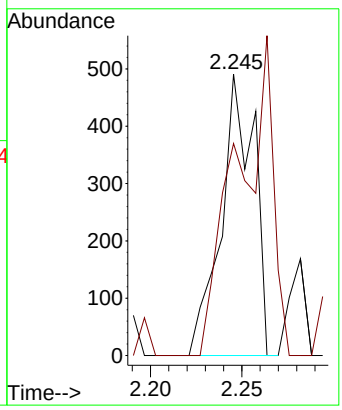


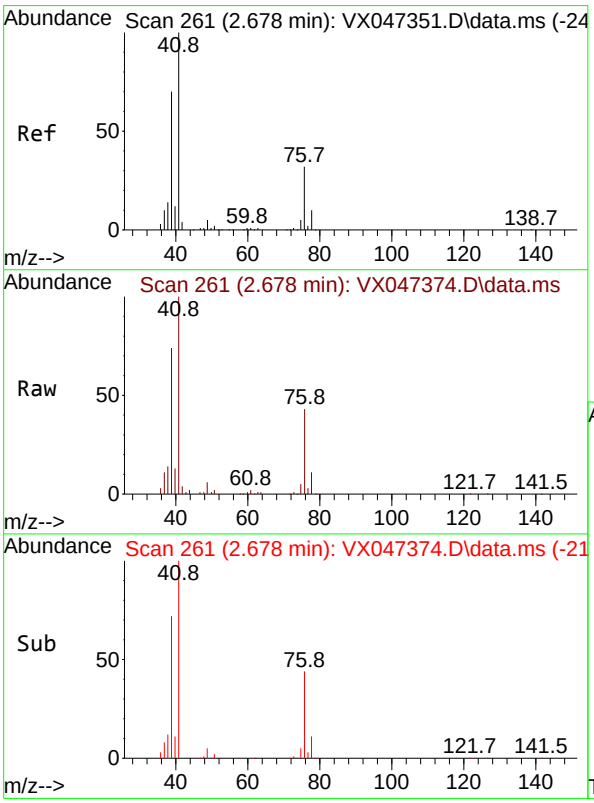
#13
Acrolein
Concen: 0.931 ug/l
RT: 2.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 56 Resp: 613

Ion	Ratio	Lower	Upper
56	100		
55	124.0	55.5	83.3#

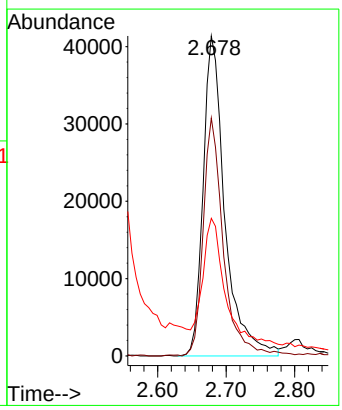


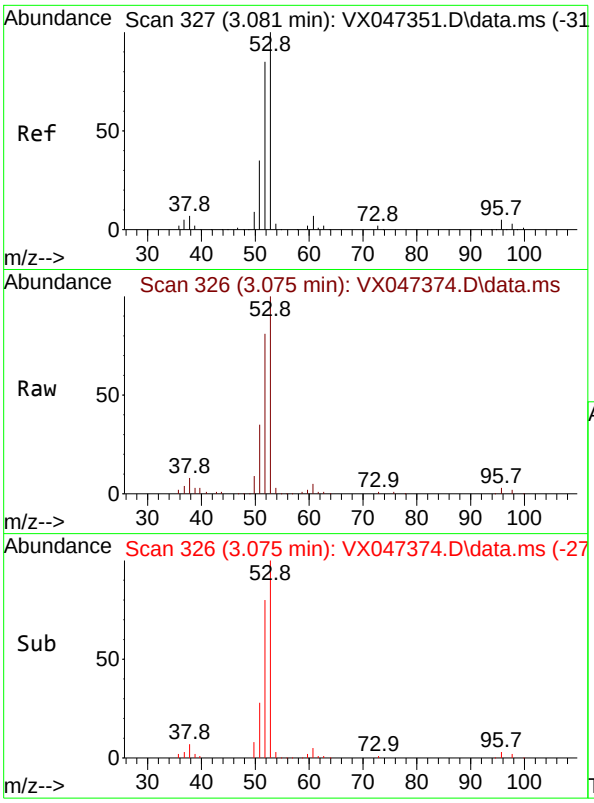


#14
Allyl chloride
Concen: 16.296 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 41 Resp: 91338

Ion	Ratio	Lower	Upper
41	100		
39	69.1	54.6	81.8
76	40.2	27.6	41.4



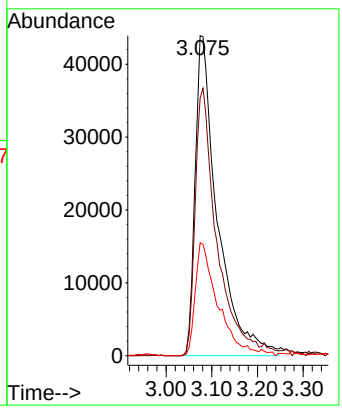


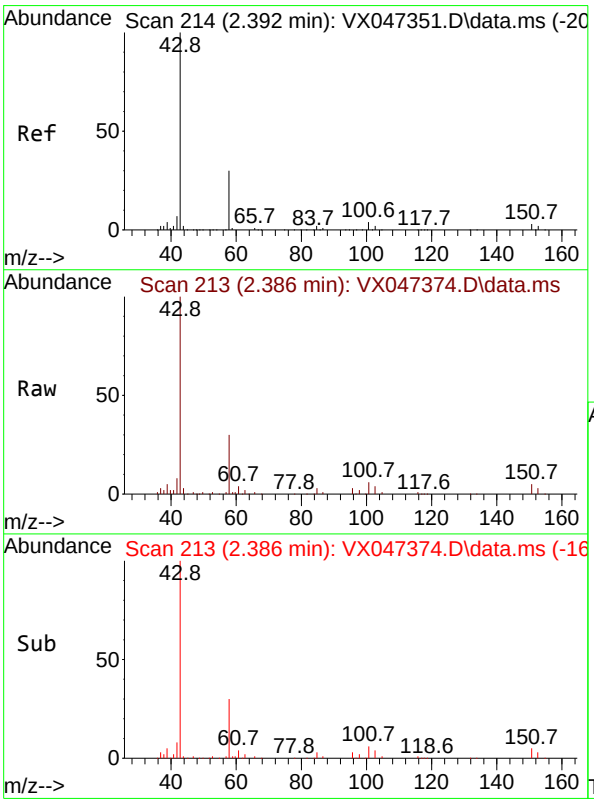
#15
Acrylonitrile
Concen: 98.415 ug/l
RT: 3.075 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 53 Resp: 148399

Ion	Ratio	Lower	Upper
53	100		
52	80.2	65.8	98.6
51	35.6	28.2	42.2

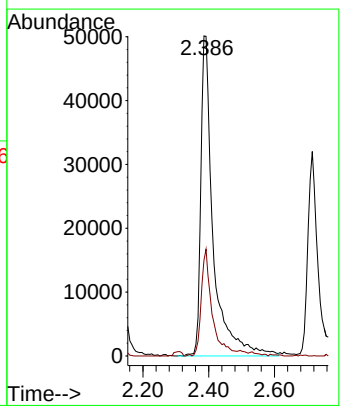


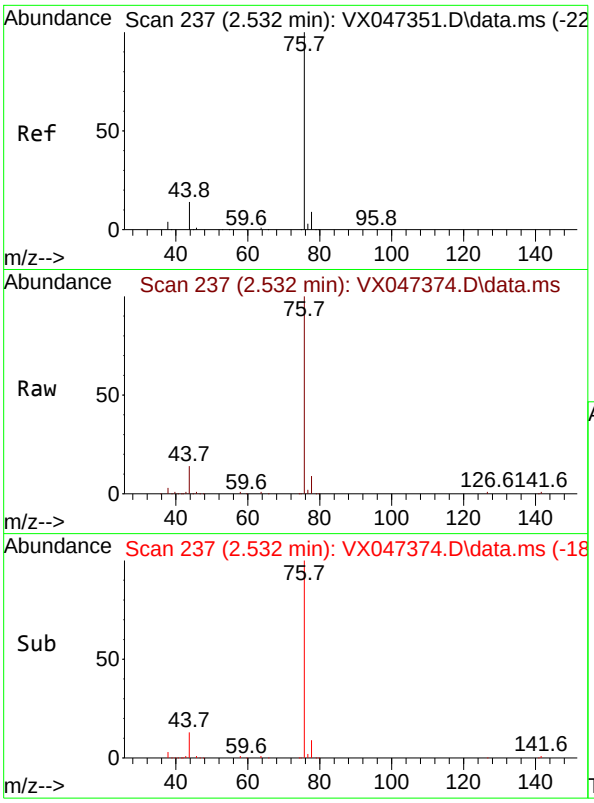


#16
Acetone
Concen: 97.762 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 43 Resp: 131812

Ion	Ratio	Lower	Upper
43	100		
58	30.0	24.8	37.2



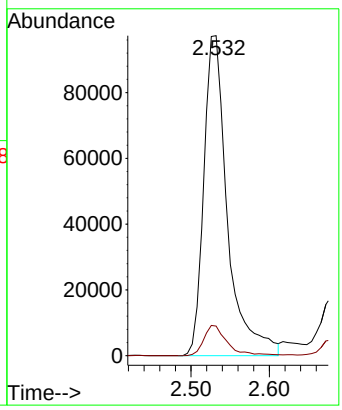


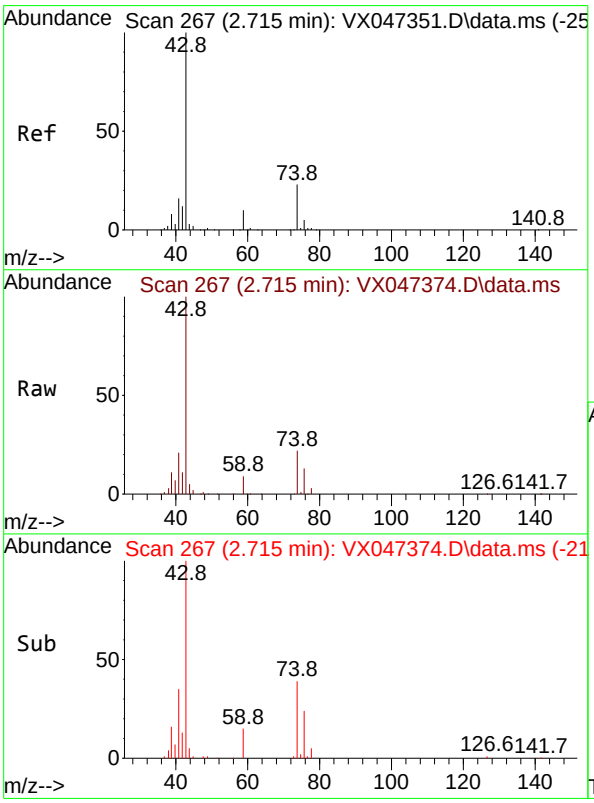
#17
Carbon Disulfide
Concen: 21.078 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 76 Resp: 205259

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8

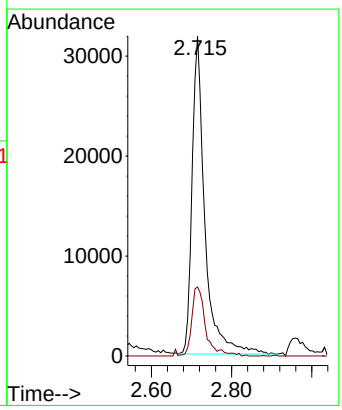


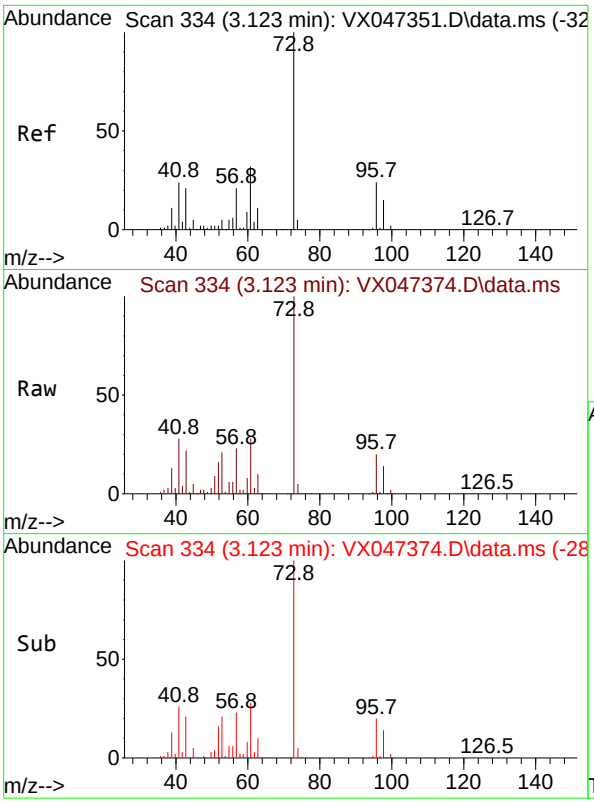


#18
Methyl Acetate
Concen: 20.121 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 43 Resp: 70302

Ion	Ratio	Lower	Upper
43	100		
74	23.0	18.4	27.6



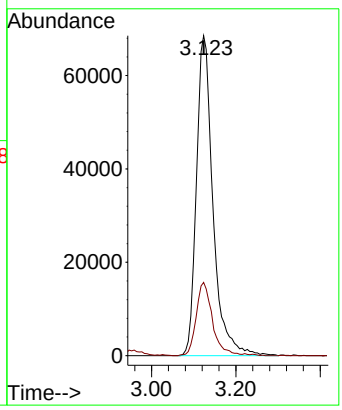


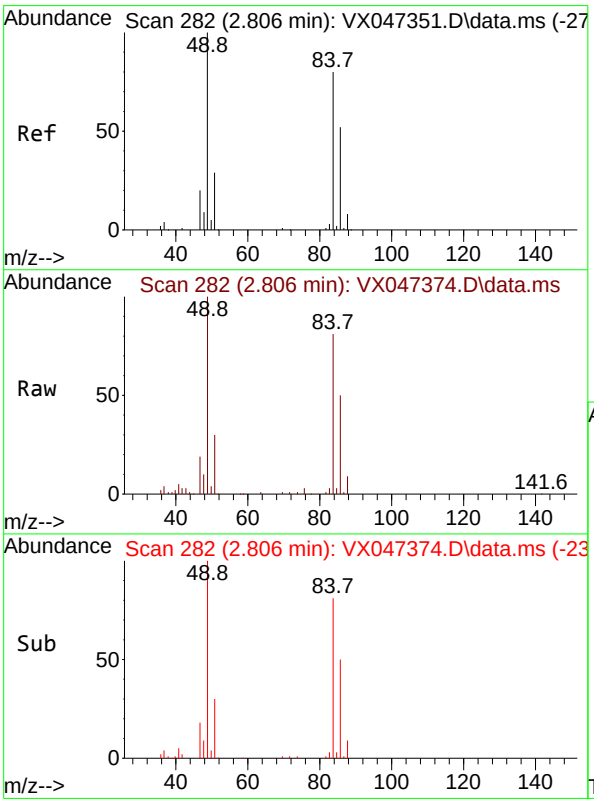
#19
Methyl tert-butyl Ether
Concen: 19.069 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 73 Resp: 187203

Ion	Ratio	Lower	Upper
73	100		
57	22.9	17.0	25.6

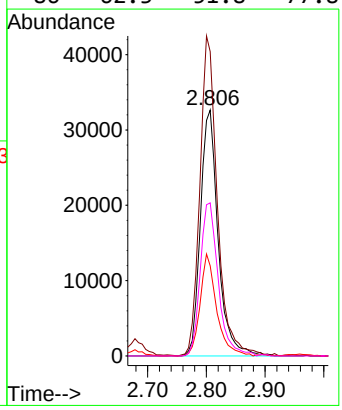


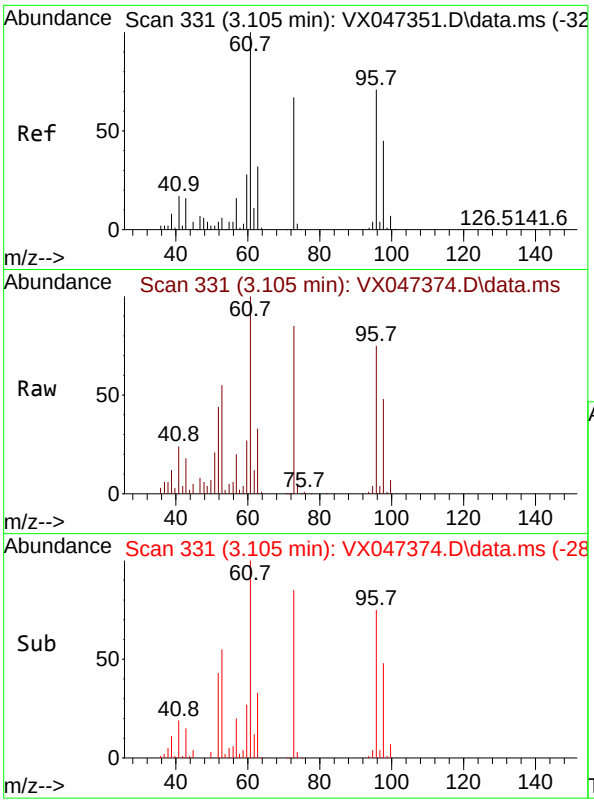


#20
Methylene Chloride
Concen: 19.243 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 84 Resp: 68704

Ion	Ratio	Lower	Upper
84	100		
49	123.8	100.1	150.1
51	36.7	29.5	44.3
86	62.3	51.8	77.8



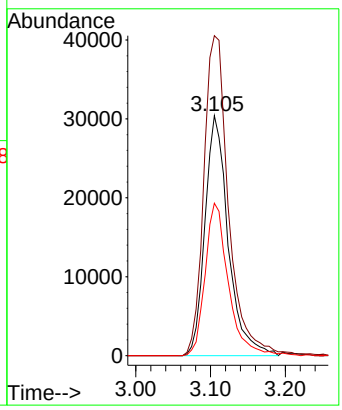


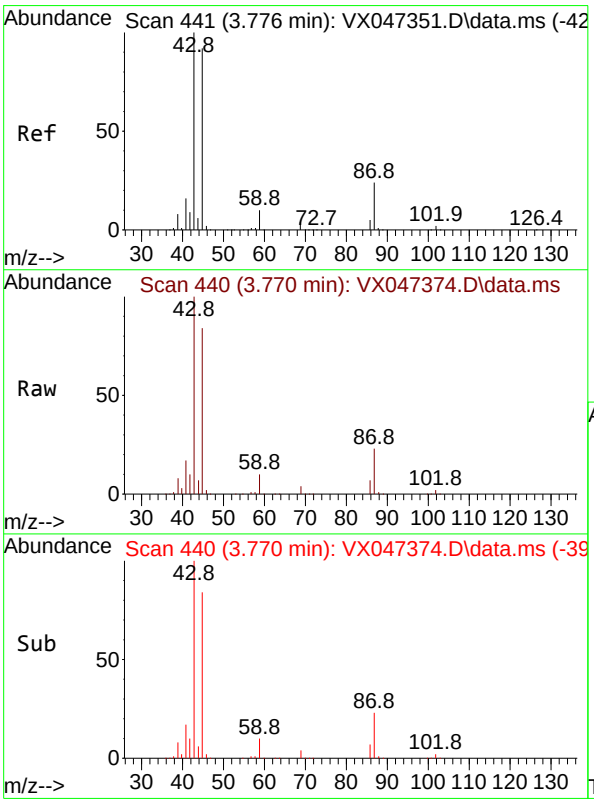
#21
trans-1,2-Dichloroethene
Concen: 19.248 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 96 Resp: 65926

Ion	Ratio	Lower	Upper
96	100		
61	133.3	112.6	169.0
98	63.5	50.9	76.3

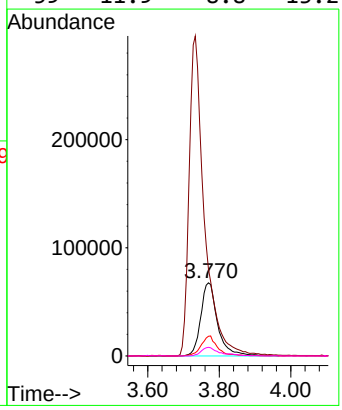


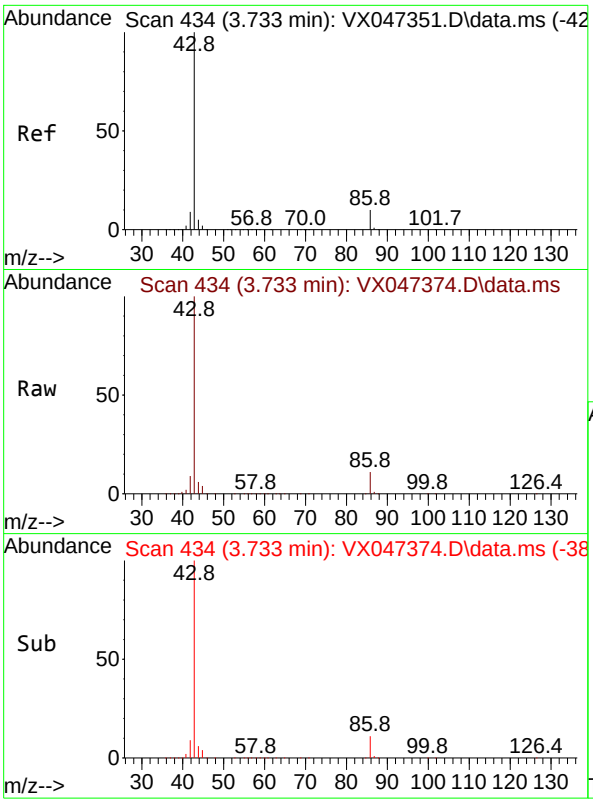


#22
Diisopropyl ether
Concen: 19.995 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 45 Resp: 221531

Ion	Ratio	Lower	Upper
45	100		
43	118.8	86.8	130.2
87	27.0	20.4	30.6
59	11.9	8.8	13.2



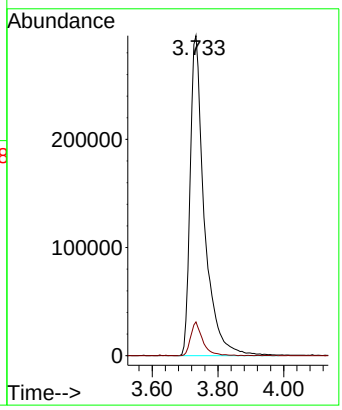


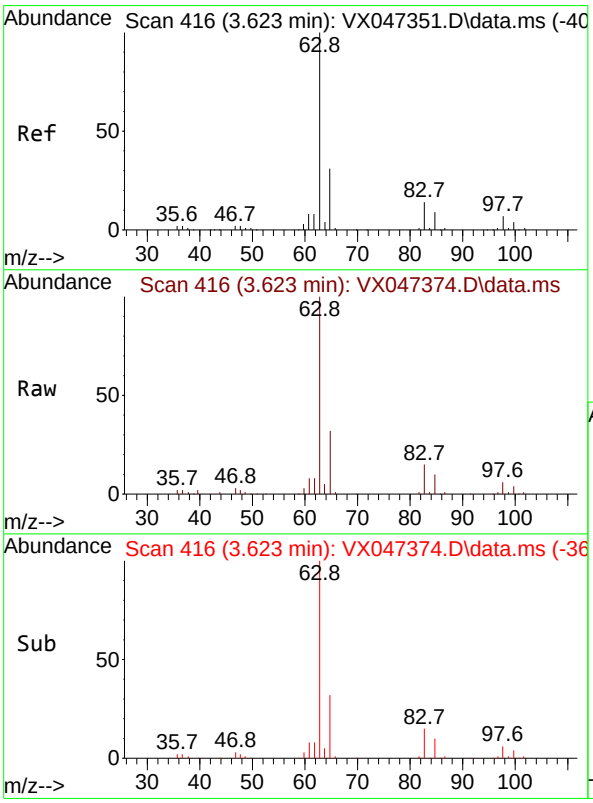
#23
Vinyl Acetate
Concen: 97.510 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 43 Resp: 885489

Ion	Ratio	Lower	Upper
43	100		
86	10.6	7.9	11.9

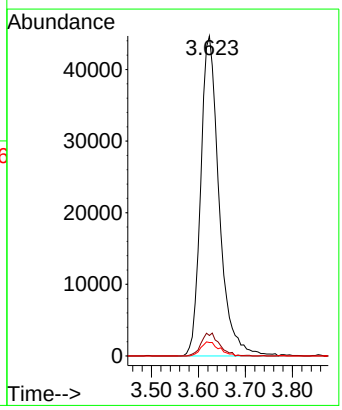


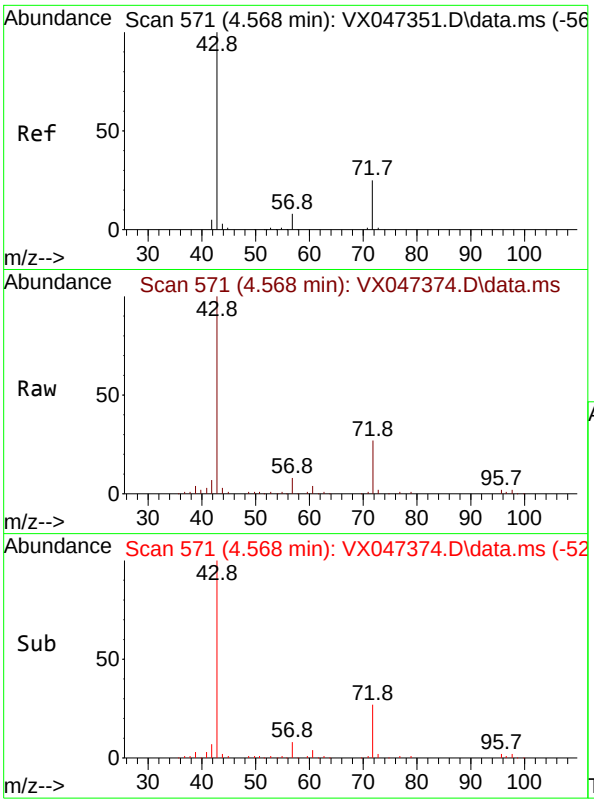


#24
1,1-Dichloroethane
Concen: 19.399 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 63 Resp: 121482

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.3	9.9
100	4.3	2.1	6.3



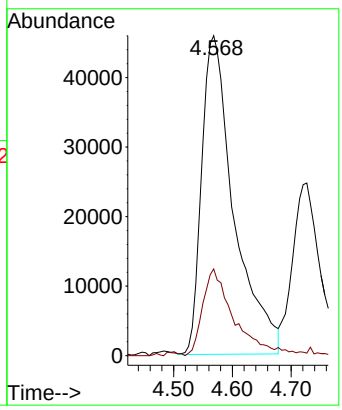


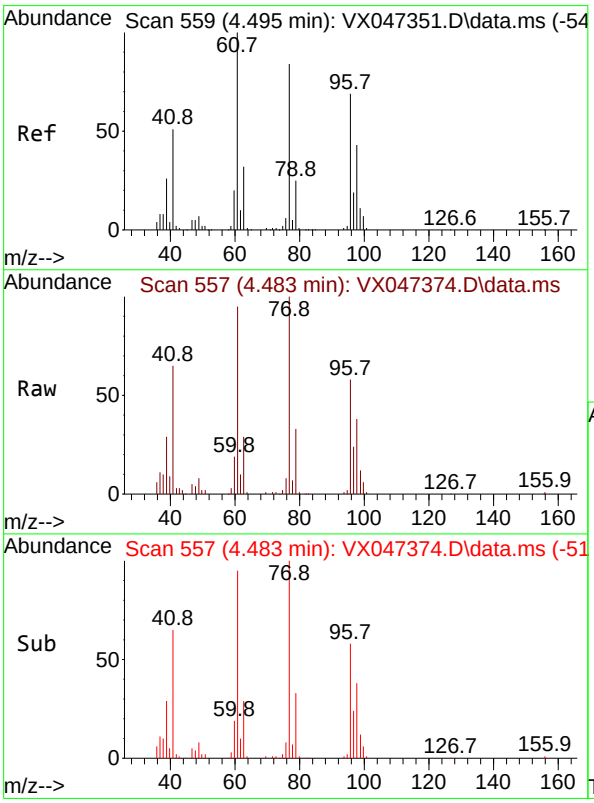
#25
2-Butanone
Concen: 99.242 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 43 Resp: 175245

Ion	Ratio	Lower	Upper
43	100		
72	26.1	19.8	29.8

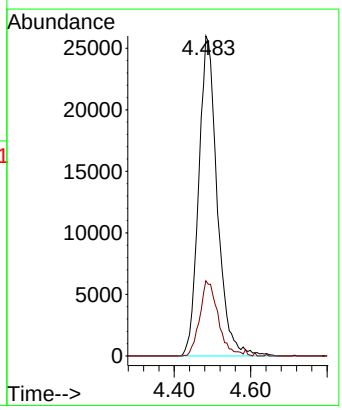


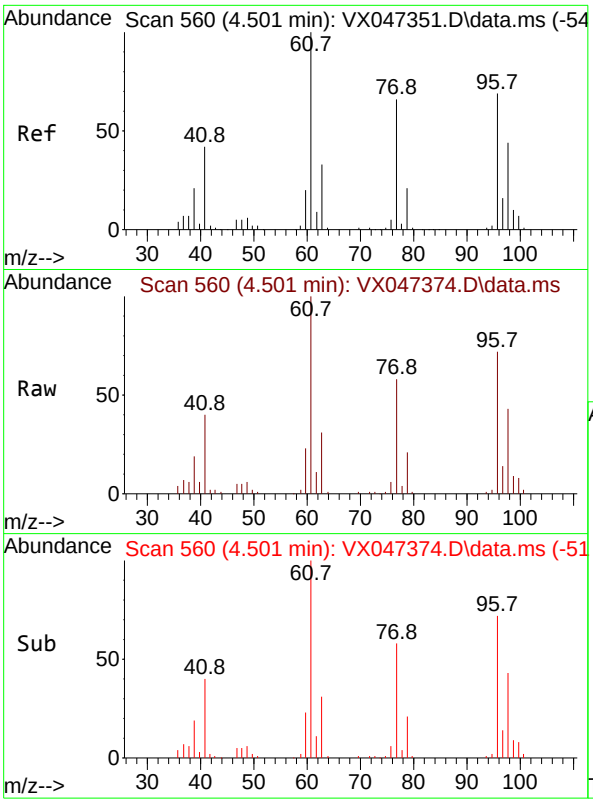


#26
2,2-Dichloropropane
Concen: 18.494 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.012 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 77 Resp: 87410

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.4	34.1



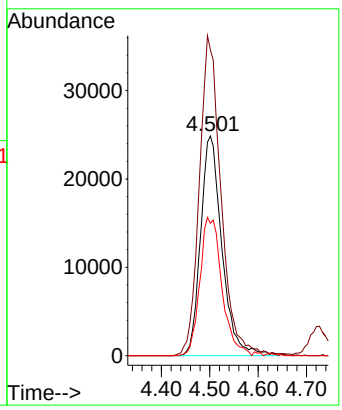


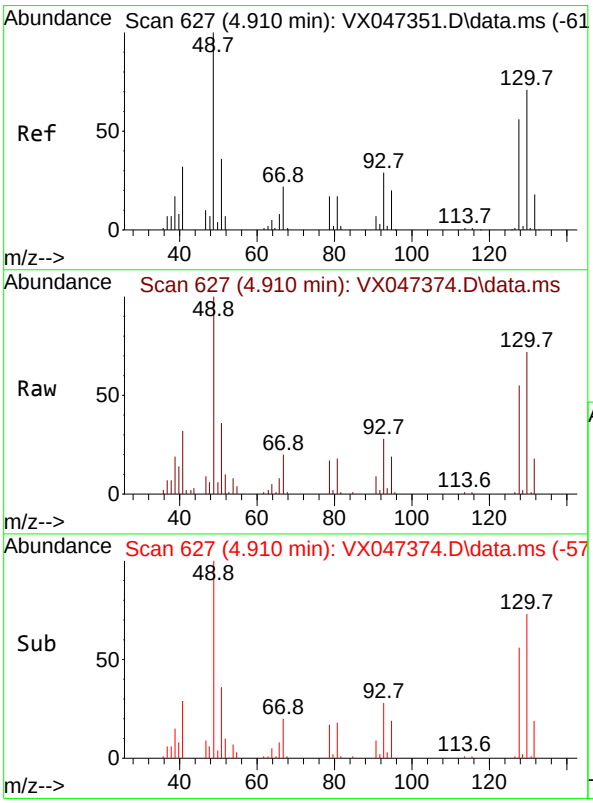
#27
cis-1,2-Dichloroethene
Concen: 19.096 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 96 Resp: 76181

Ion	Ratio	Lower	Upper
96	100		
61	148.4	0.0	296.6
98	64.8	0.0	130.4

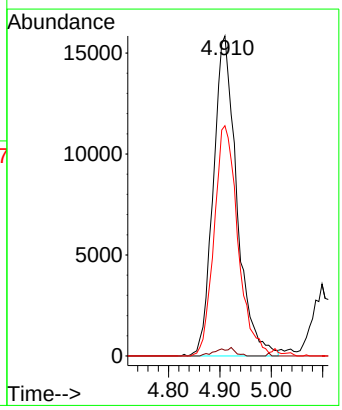


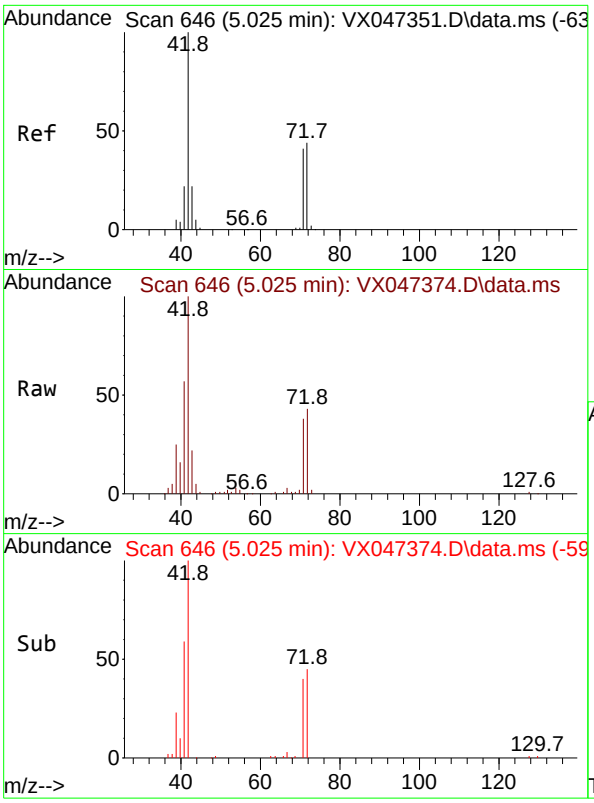


#28
Bromochloromethane
Concen: 19.305 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 49 Resp: 50307

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.0
130	72.8	59.8	89.6



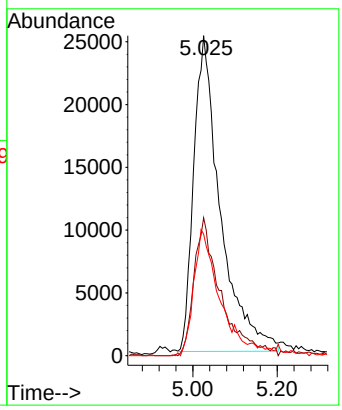


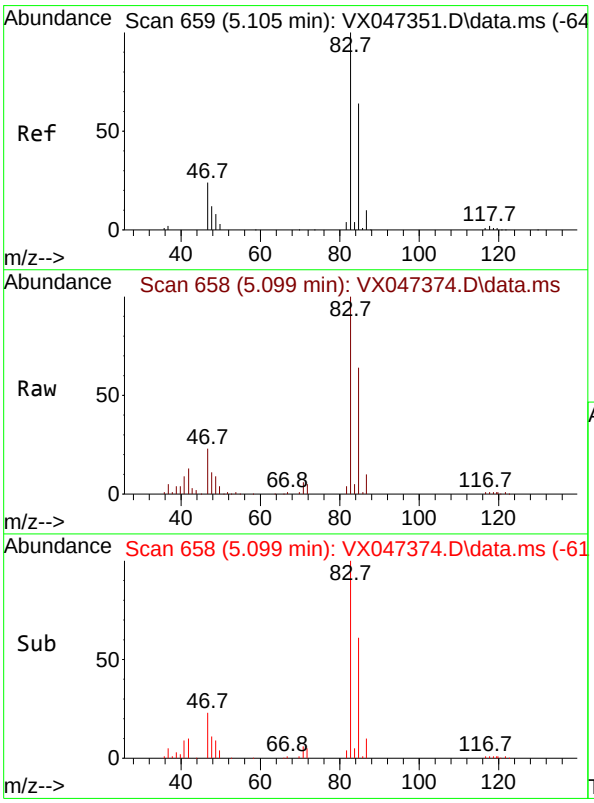
#29
Tetrahydrofuran
Concen: 96.574 ug/l
RT: 5.025 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 42 Resp: 110222

Ion	Ratio	Lower	Upper
42	100		
72	42.5	34.6	51.8
71	37.4	32.6	49.0

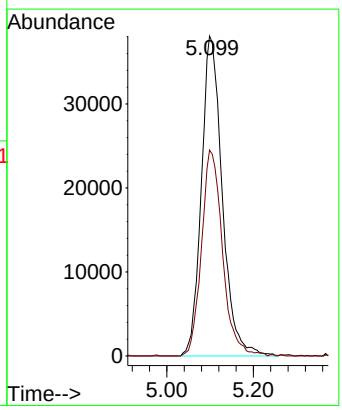


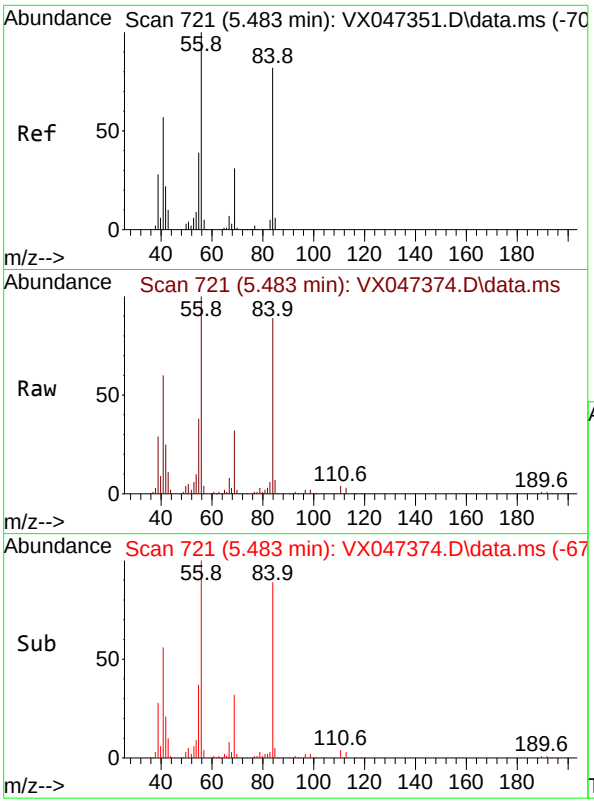


#30
Chloroform
Concen: 19.969 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 83 Resp: 127625

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.2	76.8



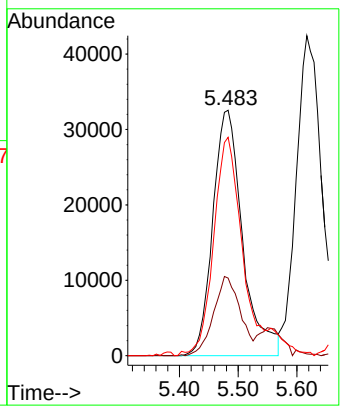


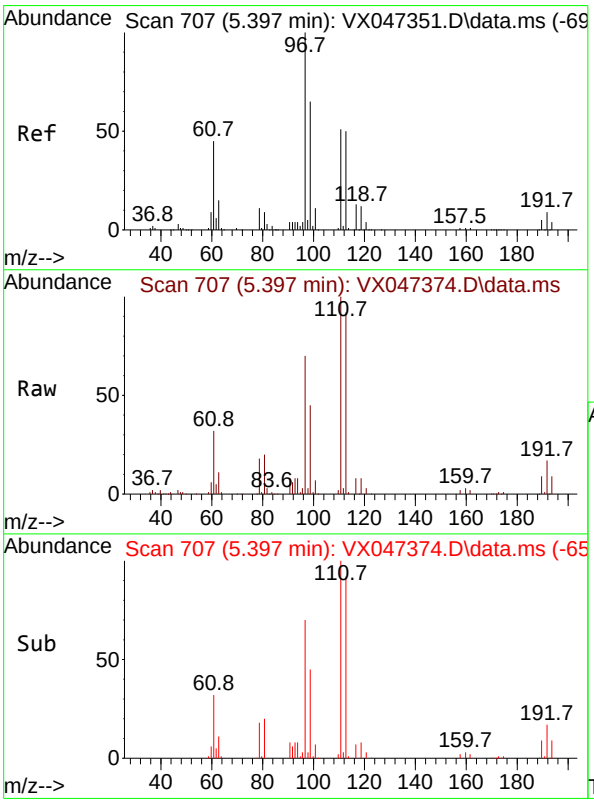
#31
Cyclohexane
Concen: 19.853 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 56 Resp: 114604

Ion	Ratio	Lower	Upper
56	100		
69	31.6	24.3	36.5
84	88.9	65.3	97.9

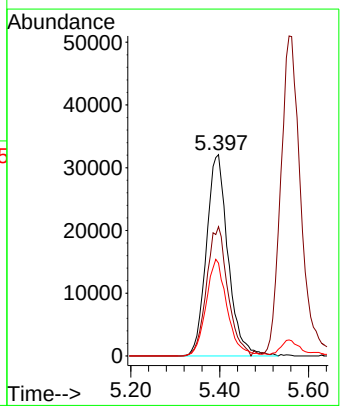


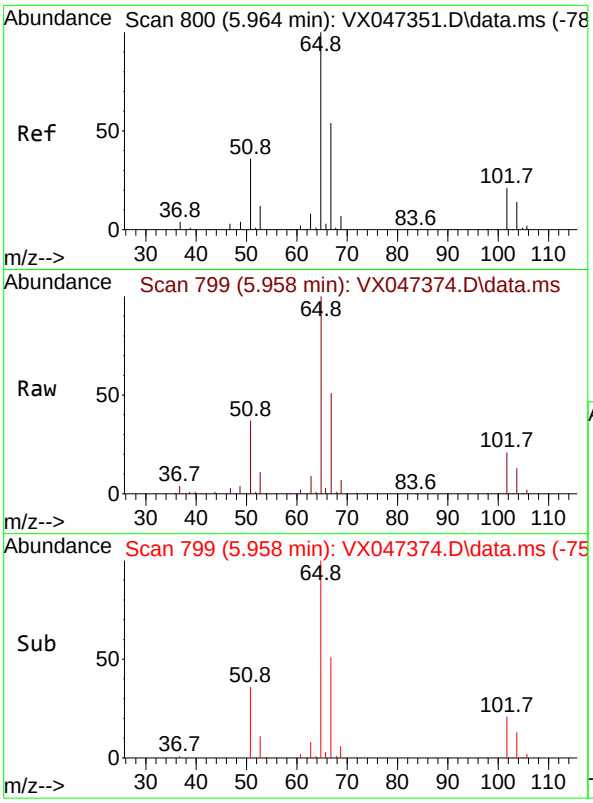


#32
1,1,1-Trichloroethane
Concen: 19.732 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 97 Resp: 108545

Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.4	77.0
61	46.7	35.7	53.5



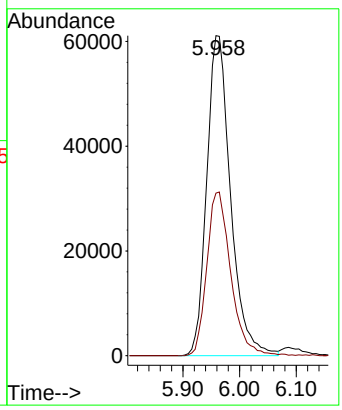


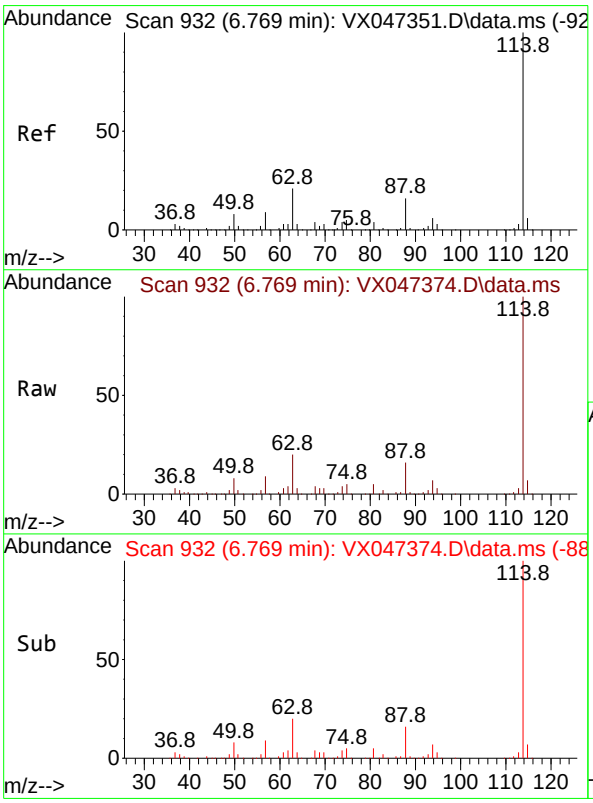
#33
1,2-Dichloroethane-d4
Concen: 49.694 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 65 Resp: 178254

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	106.0

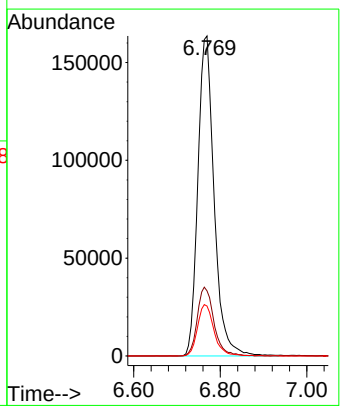


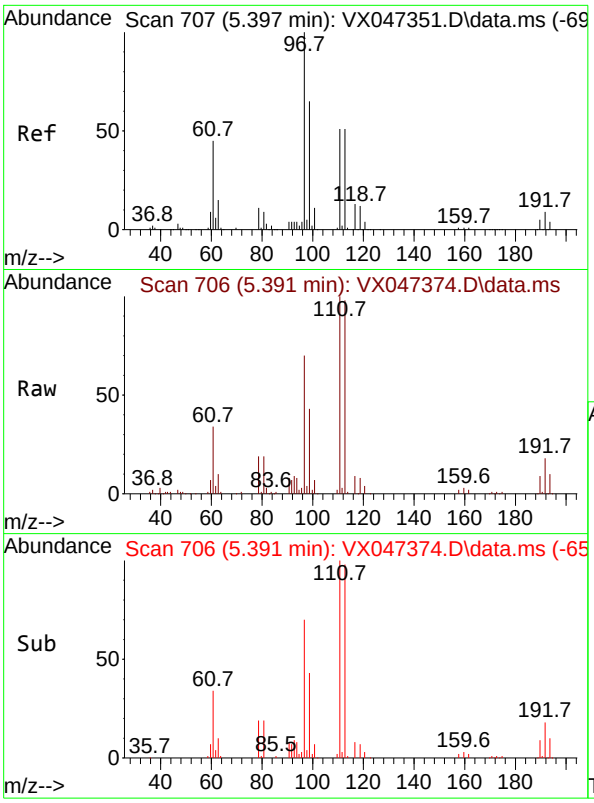


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:114 Resp: 426348

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.4
88	15.6	0.0	33.0



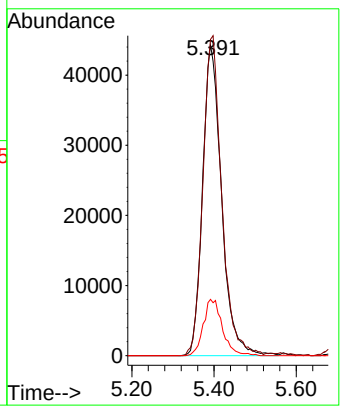


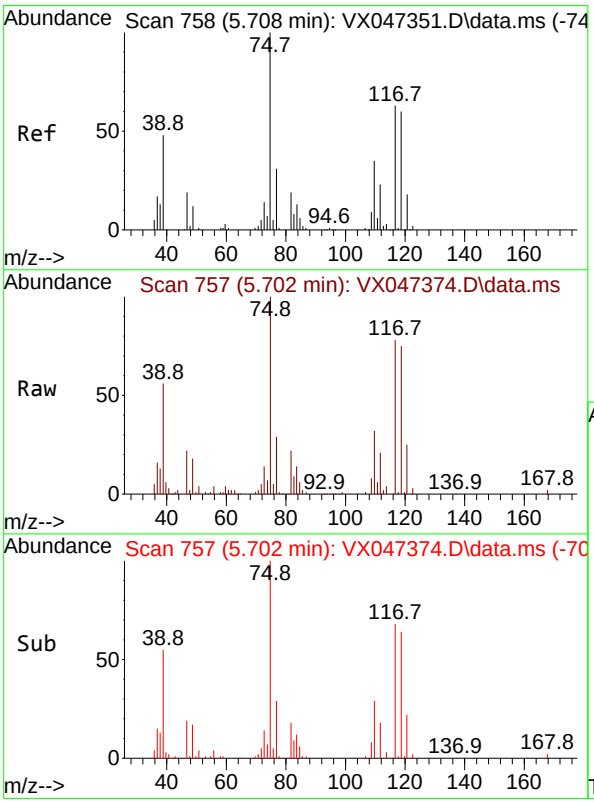
#35
Dibromofluoromethane
Concen: 51.359 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:113 Resp: 142113

Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.4	122.2
192	18.2	14.1	21.1

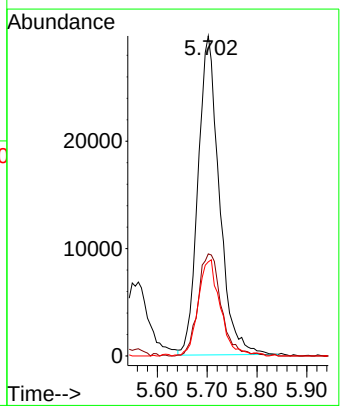


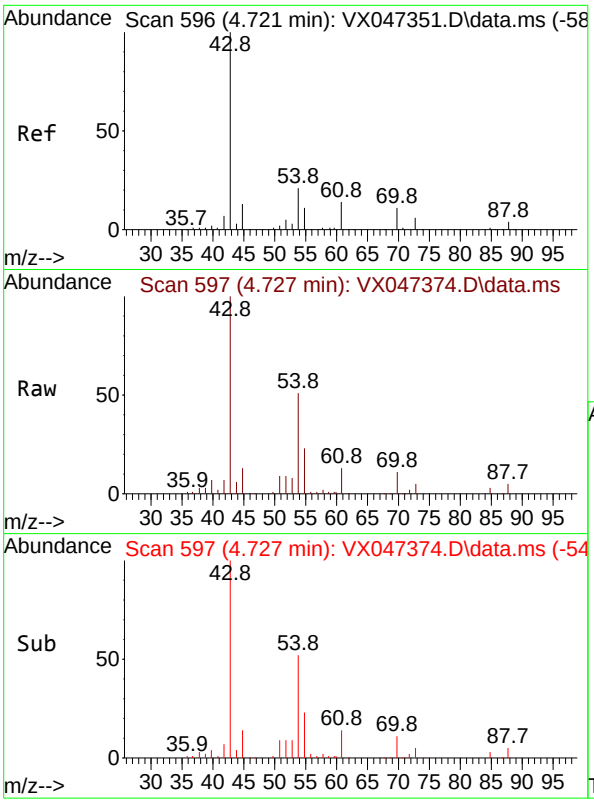


#36
1,1-Dichloropropene
Concen: 20.185 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 75 Resp: 88168

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.4	52.2
77	31.1	24.4	36.6



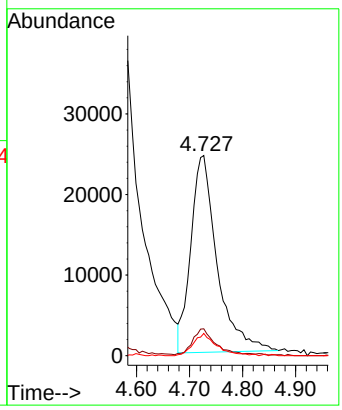


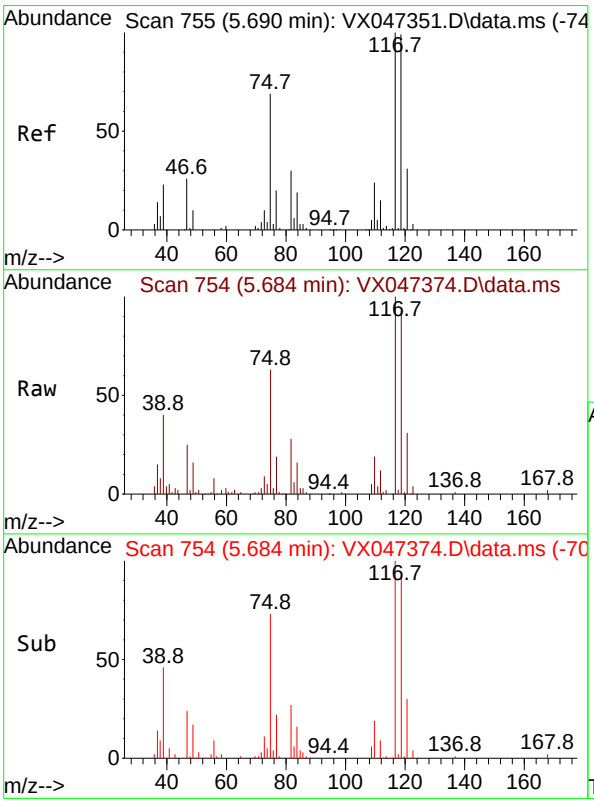
#37
Ethyl Acetate
Concen: 18.615 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 43 Resp: 84412

Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.4	14.2
70	10.0	7.0	10.6

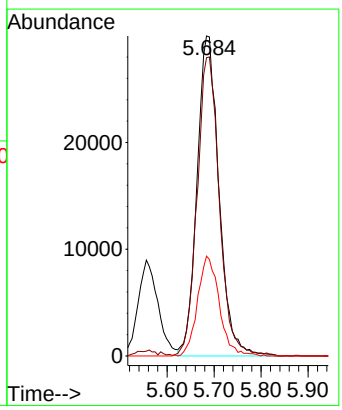


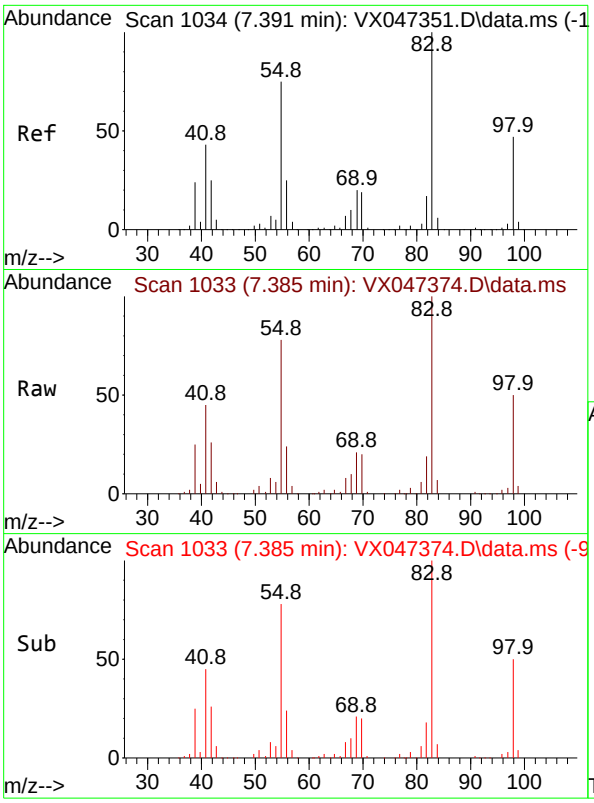


#38
Carbon Tetrachloride
Concen: 20.434 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:117 Resp: 97536

Ion	Ratio	Lower	Upper
117	100		
119	93.2	78.5	117.7
121	31.2	24.7	37.1



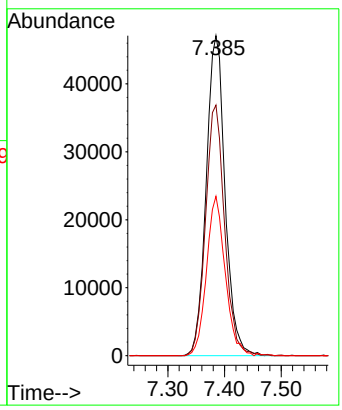


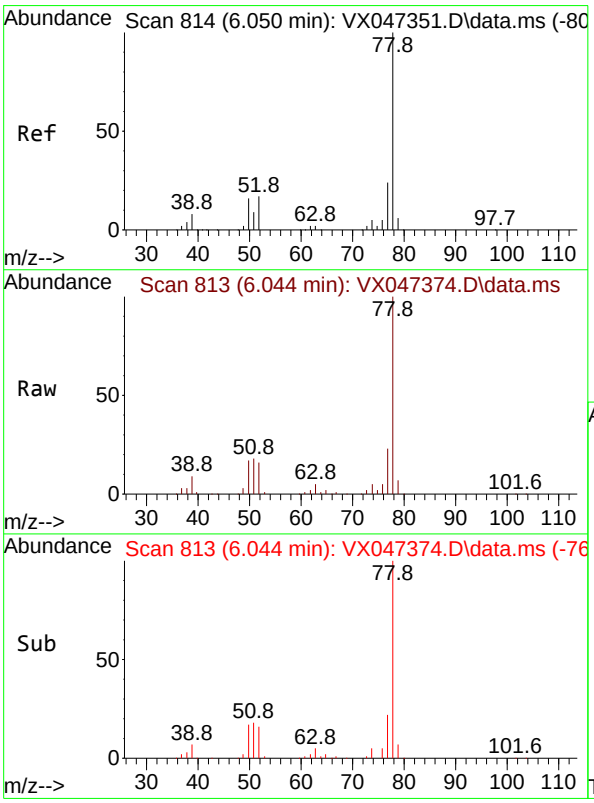
#39
Methylcyclohexane
Concen: 19.955 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 83 Resp: 108722

Ion	Ratio	Lower	Upper
83	100		
55	78.3	60.0	90.0
98	49.8	37.2	55.8

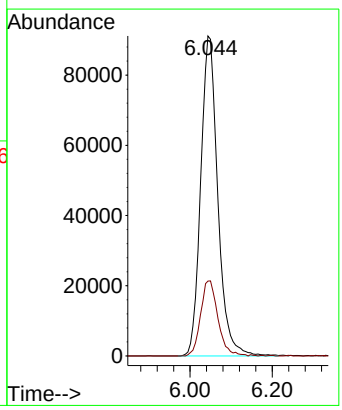


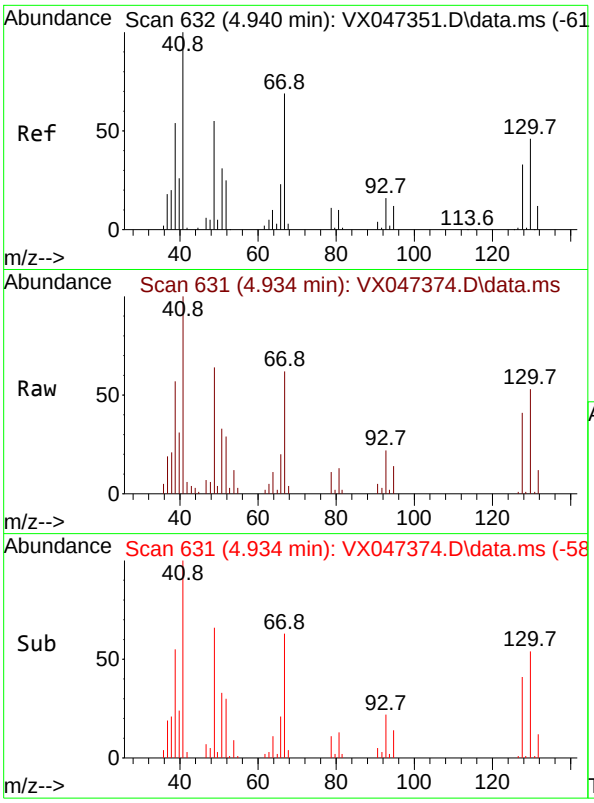


#40
Benzene
Concen: 20.096 ug/l
RT: 6.044 min Scan# 813
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 78 Resp: 262740

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4



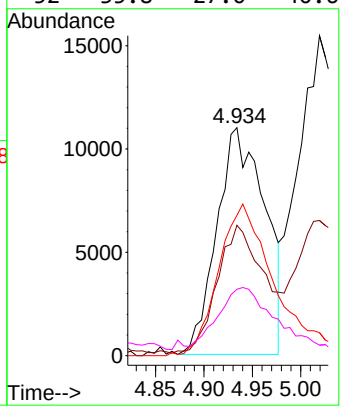


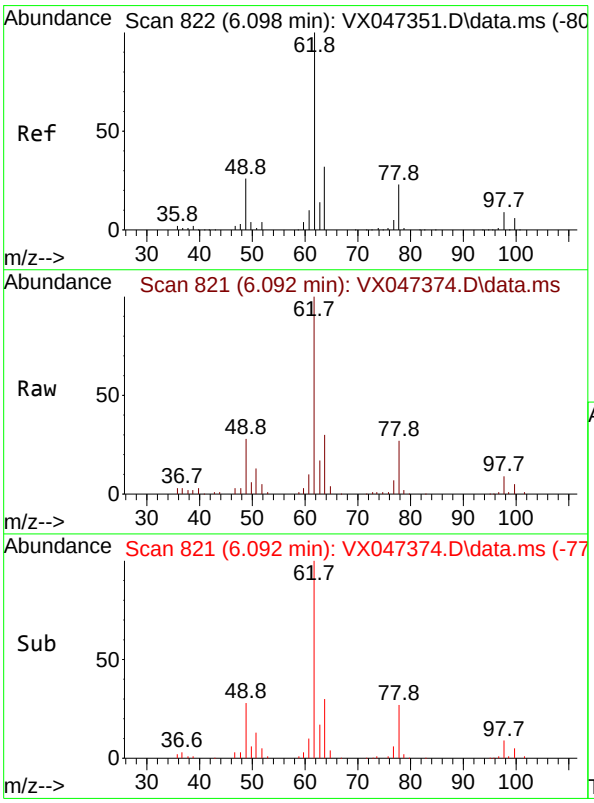
#41
Methacrylonitrile
Concen: 19.793 ug/l
RT: 4.934 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 41 Resp: 37848

Ion	Ratio	Lower	Upper
41	100		
39	57.0	45.4	68.2
67	78.4	64.0	96.0
52	35.8	27.0	40.6

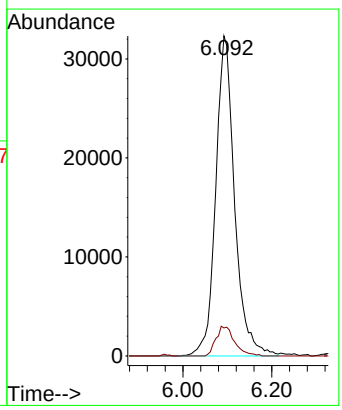


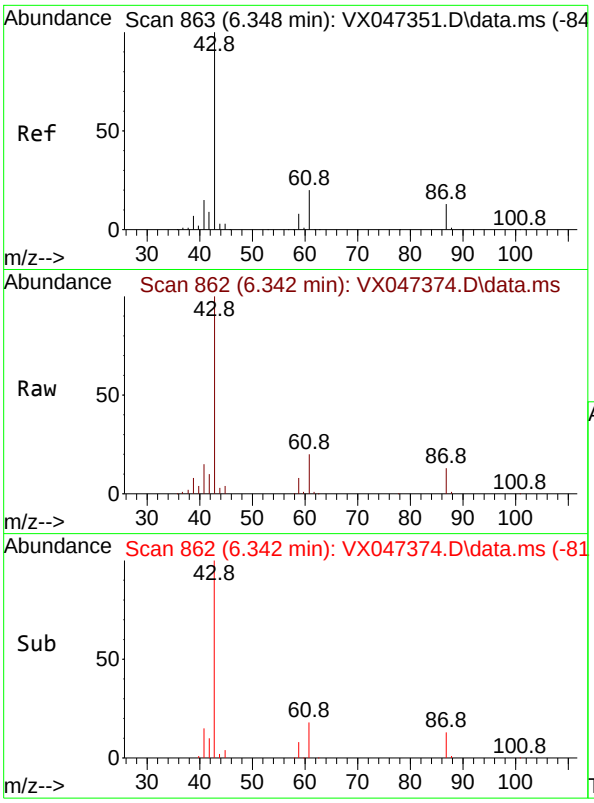


#42
1,2-Dichloroethane
Concen: 20.554 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 62 Resp: 95188

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.0



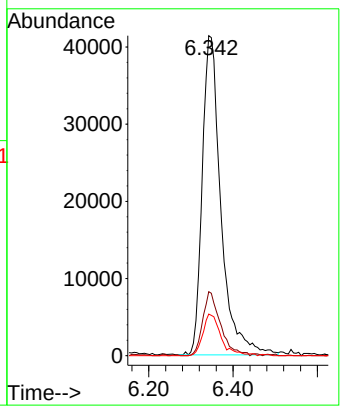


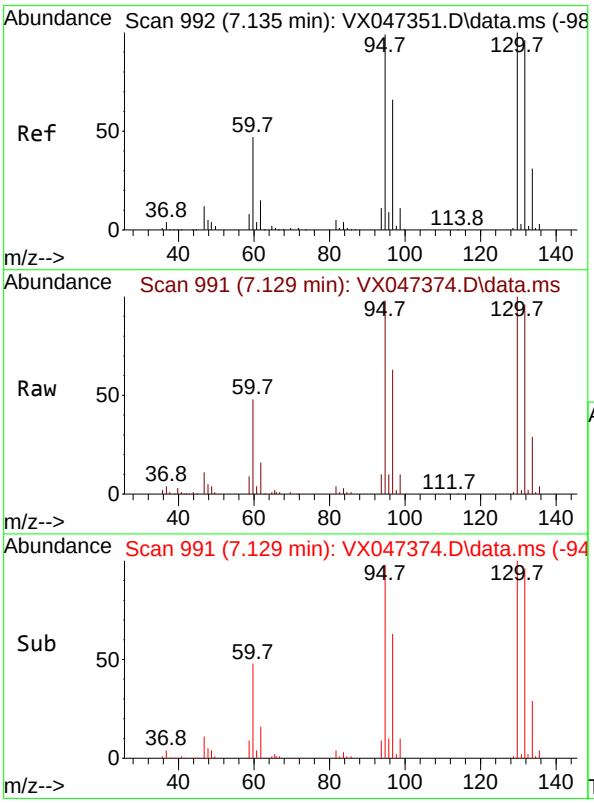
#43
Isopropyl Acetate
Concen: 19.606 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 43 Resp: 127724

Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.4	23.0
87	12.4	10.2	15.4

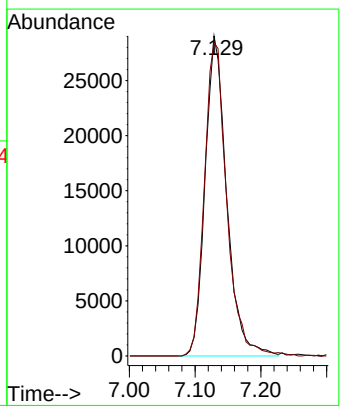


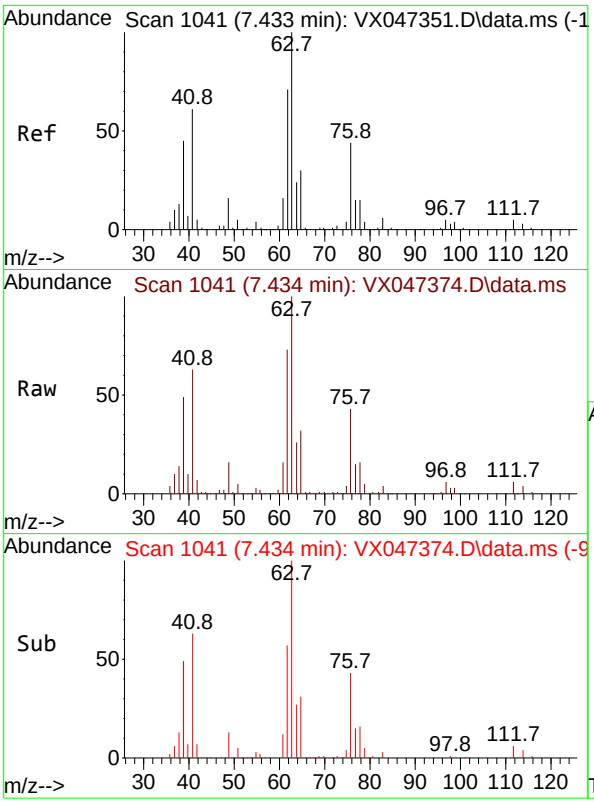


#44
Trichloroethene
Concen: 19.835 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:130 Resp: 66400

Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	198.6



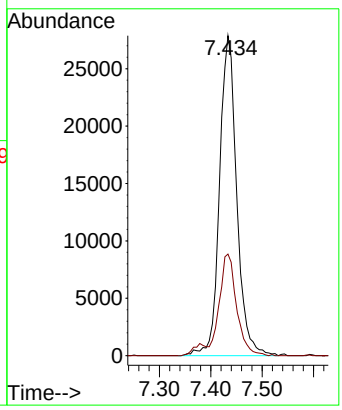


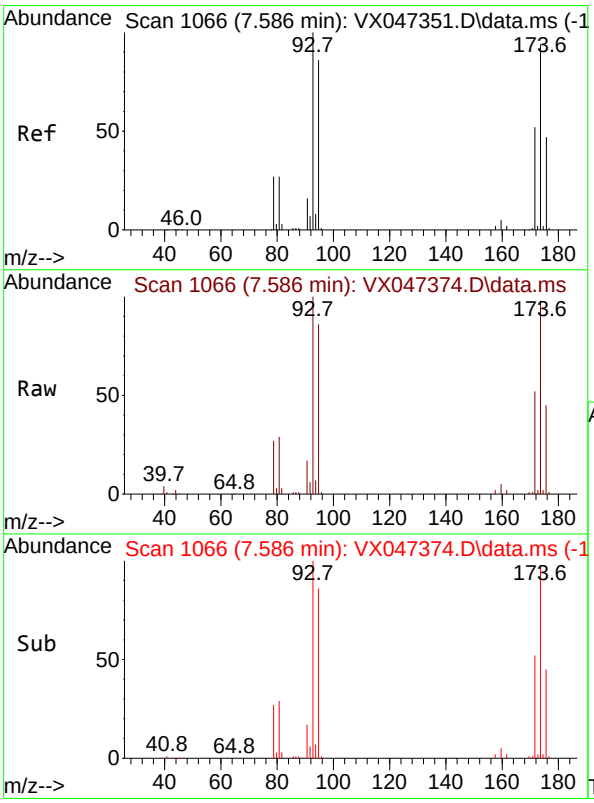
#45
1,2-Dichloropropane
Concen: 19.797 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 63 Resp: 64842

Ion	Ratio	Lower	Upper
63	100		
65	31.7	23.8	35.6

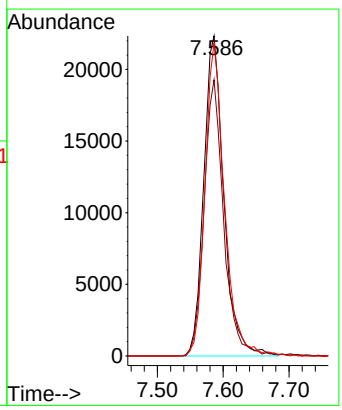


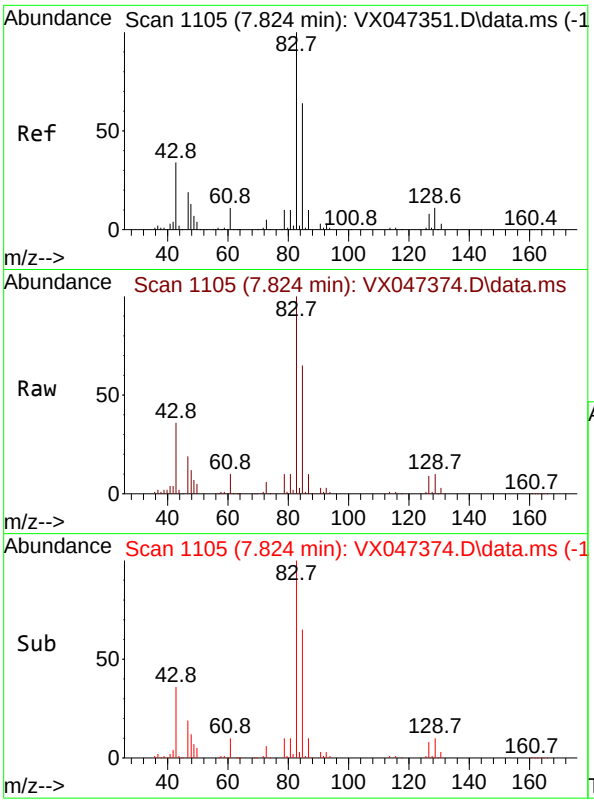


#46
Dibromomethane
Concen: 19.887 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 93 Resp: 47290

Ion	Ratio	Lower	Upper
93	100		
95	84.6	68.0	102.0
174	95.5	75.8	113.6



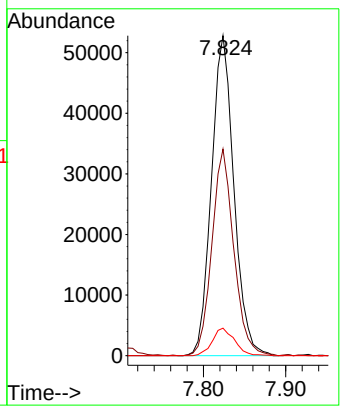


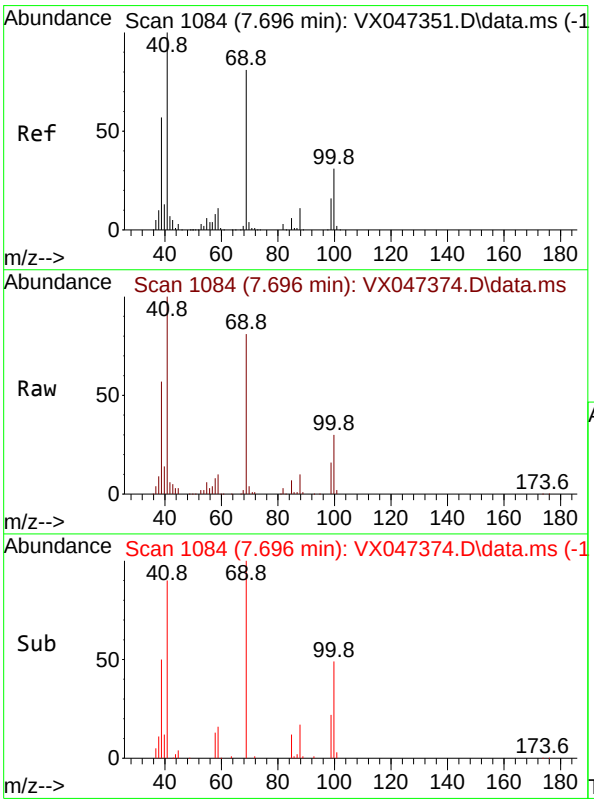
#47
Bromodichloromethane
Concen: 20.333 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 83 Resp: 100235

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.0	76.6
127	8.6	7.0	10.4

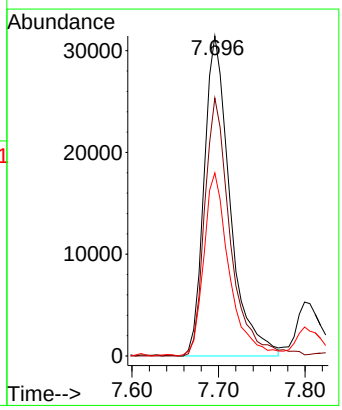


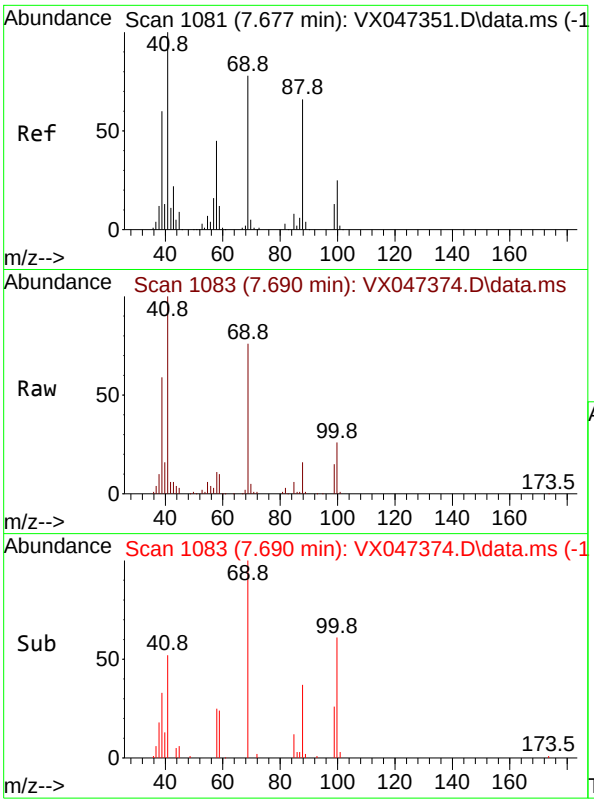


#48
Methyl methacrylate
Concen: 19.343 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 41 Resp: 65407

Ion	Ratio	Lower	Upper
41	100		
69	79.9	65.0	97.4
39	56.3	45.7	68.5



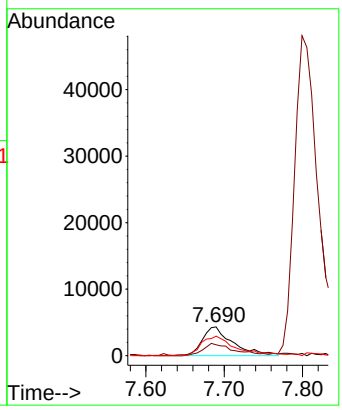


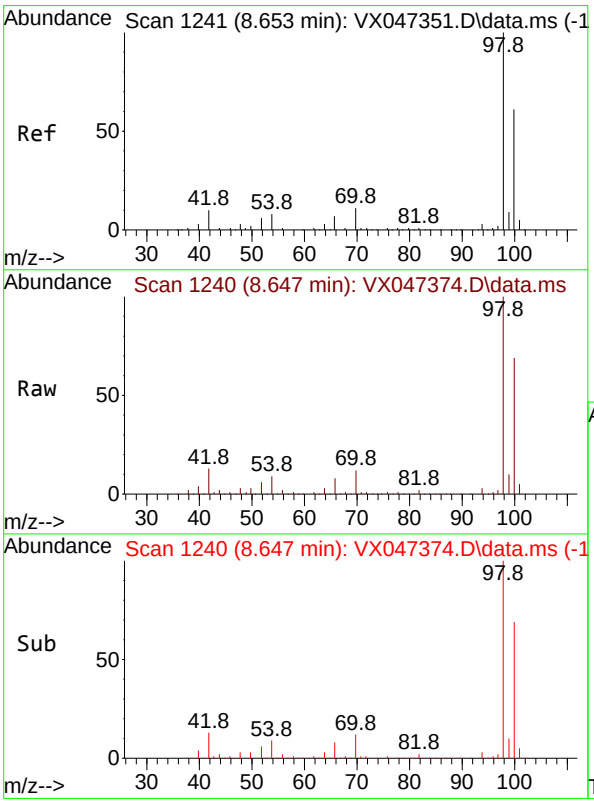
#49
1,4-Dioxane
Concen: 355.080 ug/l
RT: 7.690 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 88 Resp: 11672

Ion	Ratio	Lower	Upper
88	100		
43	40.3	32.4	48.6
58	77.4	56.9	85.3

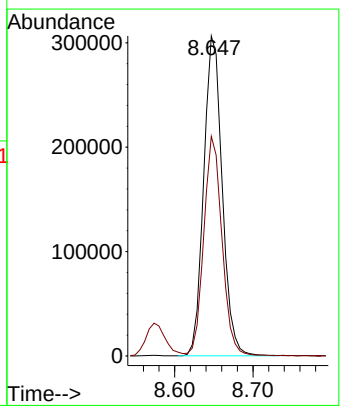


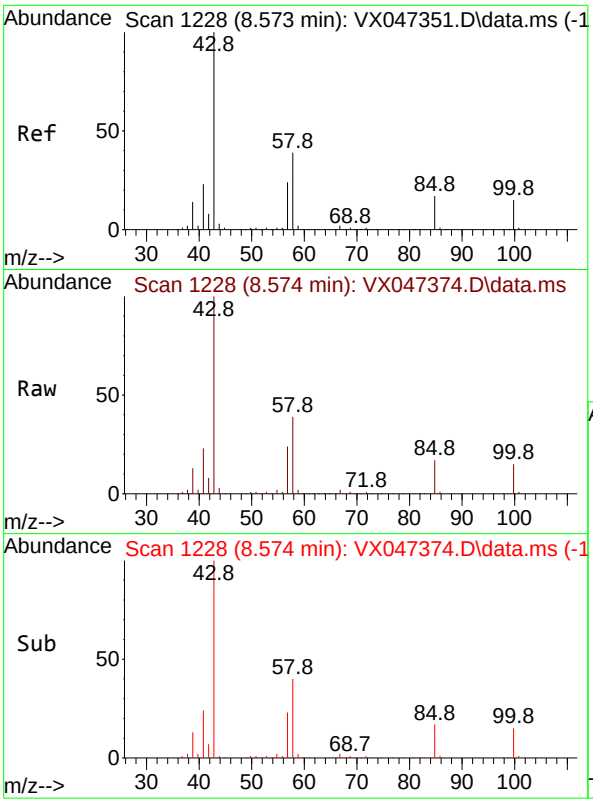


#50
Toluene-d8
Concen: 50.720 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 98 Resp: 501625

Ion	Ratio	Lower	Upper
98	100		
100	67.8	53.9	80.9



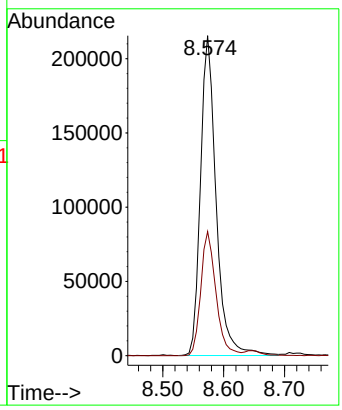


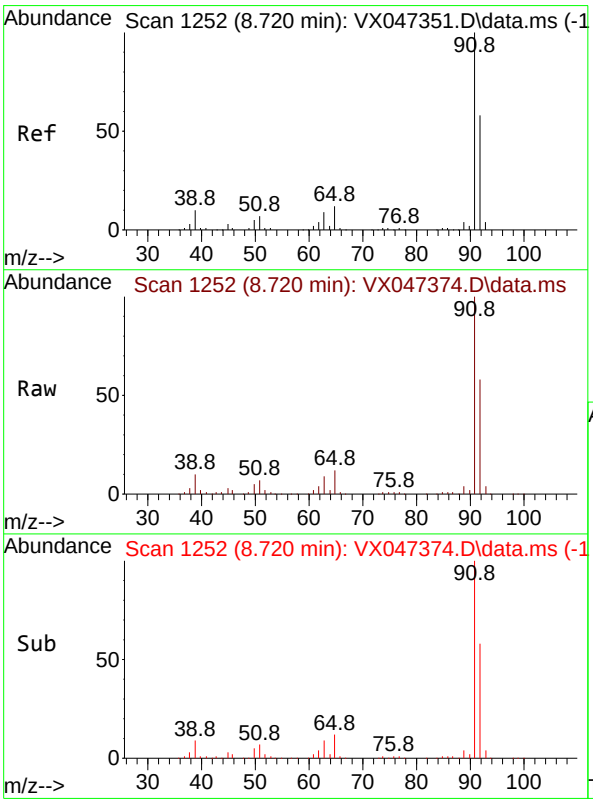
#51
4-Methyl-2-Pentanone
Concen: 102.487 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 43 Resp: 384202

Ion	Ratio	Lower	Upper
43	100		
58	37.7	31.2	46.8

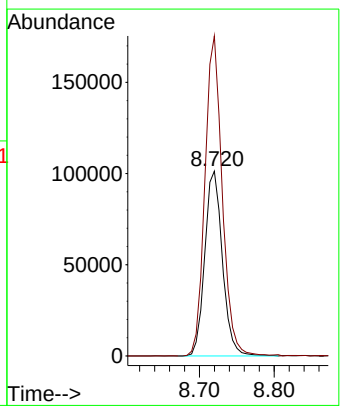


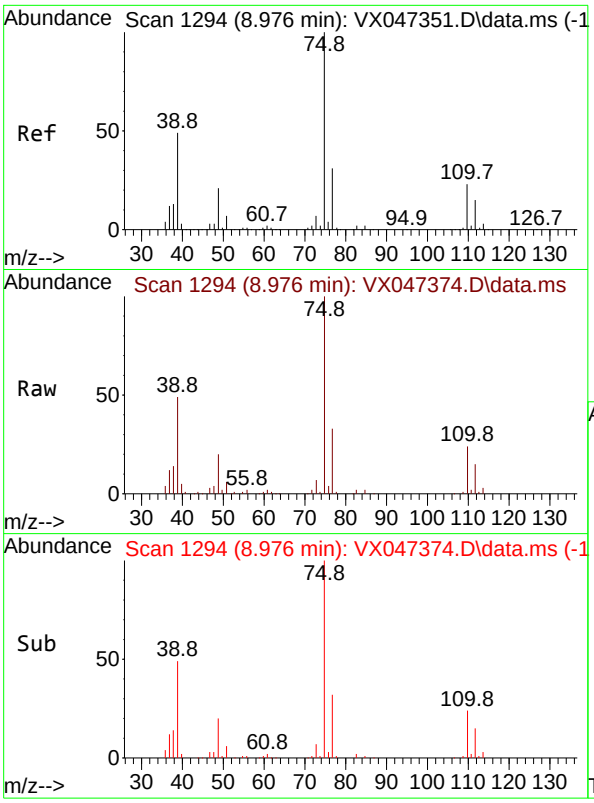


#52
Toluene
Concen: 20.523 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 92 Resp: 165801

Ion	Ratio	Lower	Upper
92	100		
91	170.3	136.3	204.5



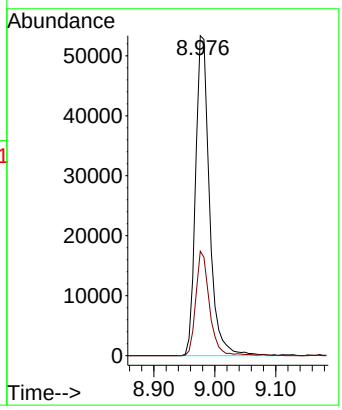


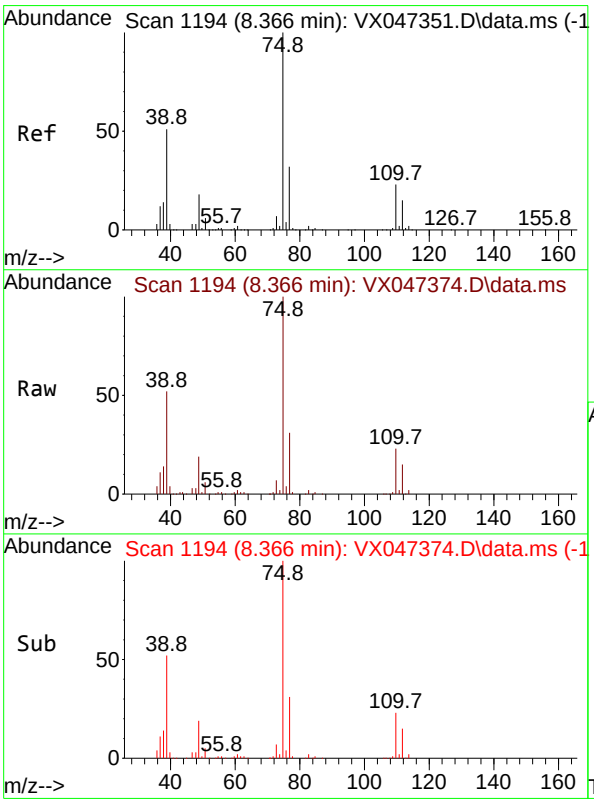
#53
t-1,3-Dichloropropene
Concen: 19.681 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 75 Resp: 84674

Ion	Ratio	Lower	Upper
75	100		
77	32.7	24.7	37.1

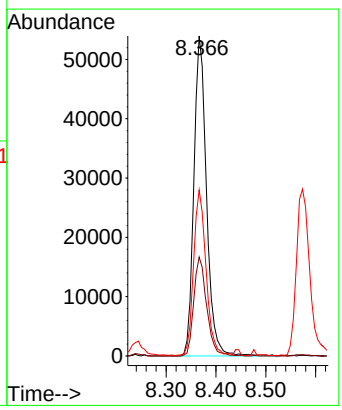


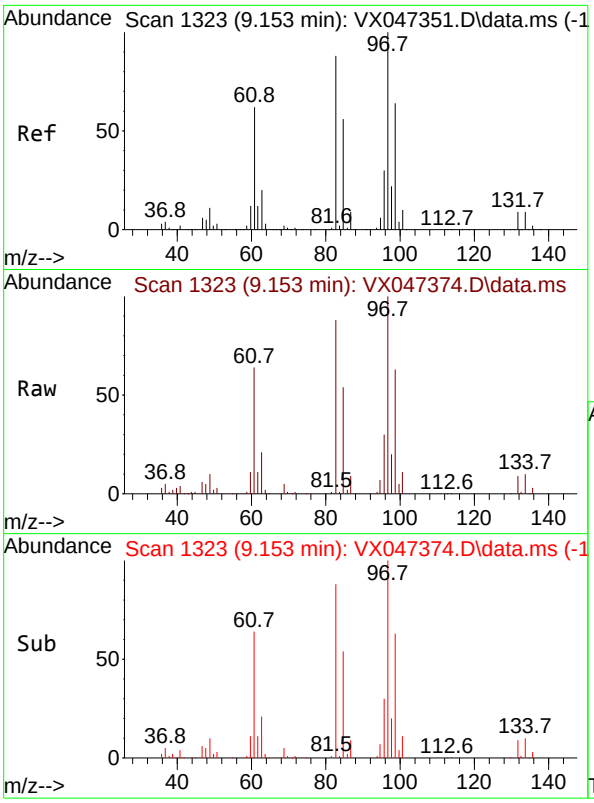


#54
cis-1,3-Dichloropropene
Concen: 19.522 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 75 Resp: 95068

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.6	38.4
39	51.8	40.9	61.3



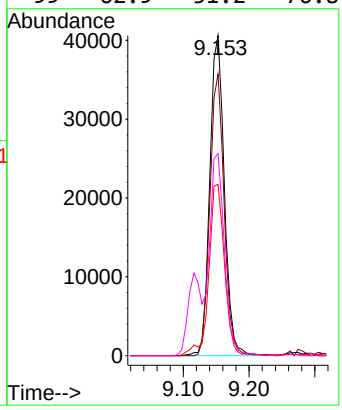


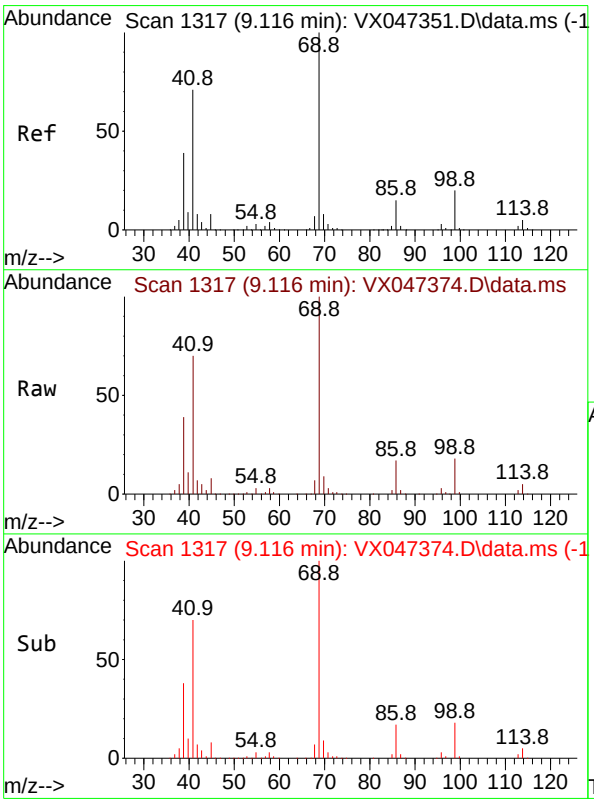
#55
1,1,2-Trichloroethane
Concen: 20.382 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 97 Resp: 62518

Ion	Ratio	Lower	Upper
97	100		
83	88.0	70.6	106.0
85	53.5	44.7	67.1
99	62.9	51.2	76.8

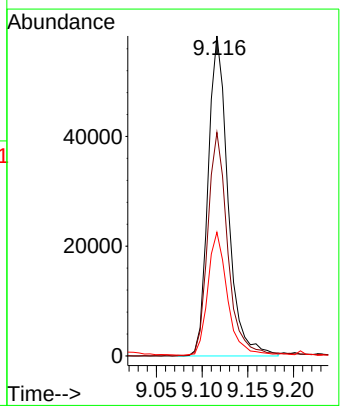


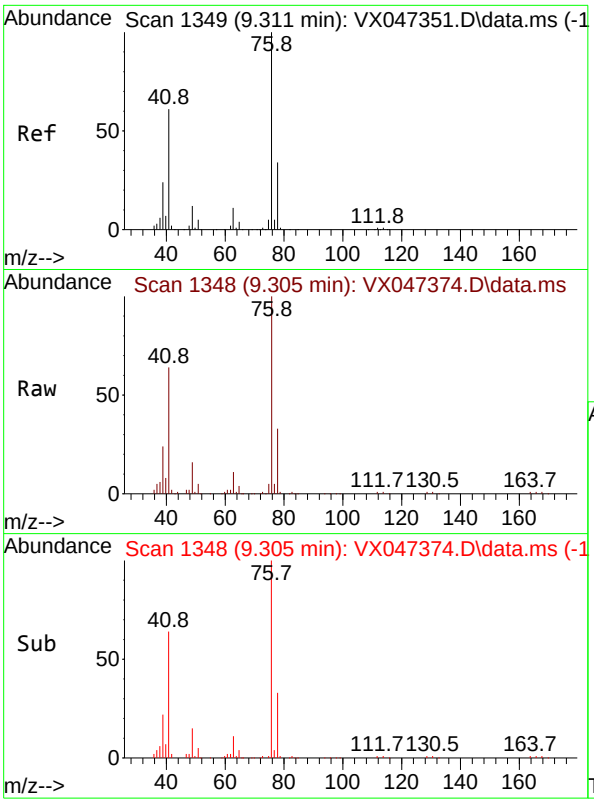


#56
Ethyl methacrylate
Concen: 19.499 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 69 Resp: 88182

Ion	Ratio	Lower	Upper
69	100		
41	71.3	55.3	82.9
39	37.9	30.2	45.2



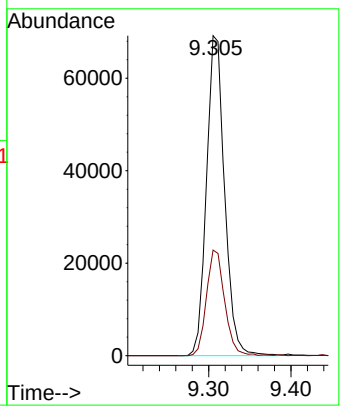


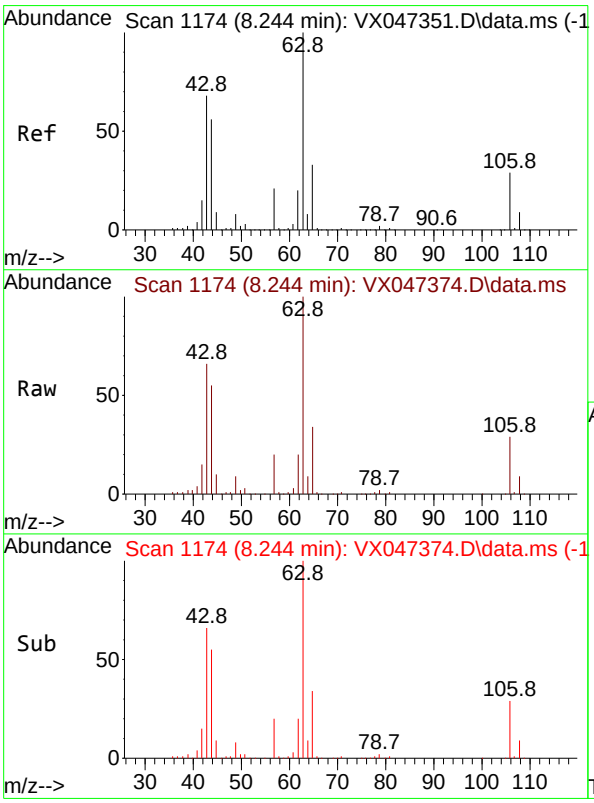
#57
1,3-Dichloropropane
Concen: 20.234 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 76 Resp: 105761

Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.2	39.2

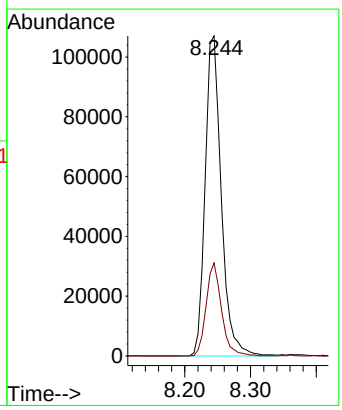


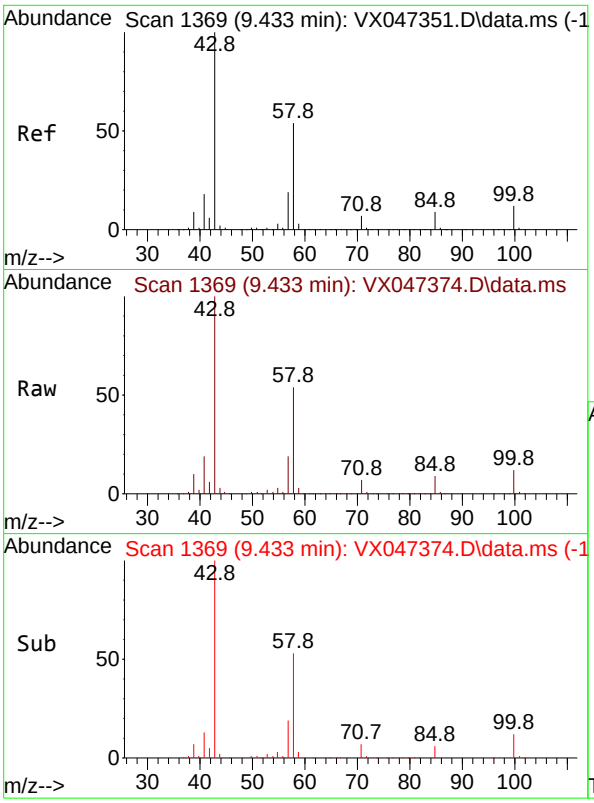


#58
2-Chloroethyl Vinyl ether
Concen: 90.181 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 63 Resp: 182812

Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.8	34.2



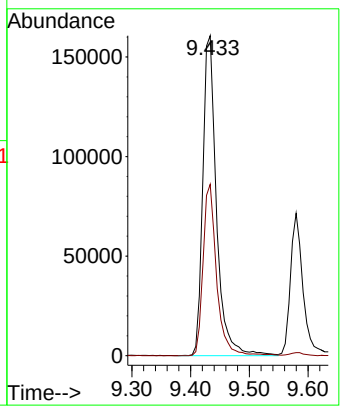


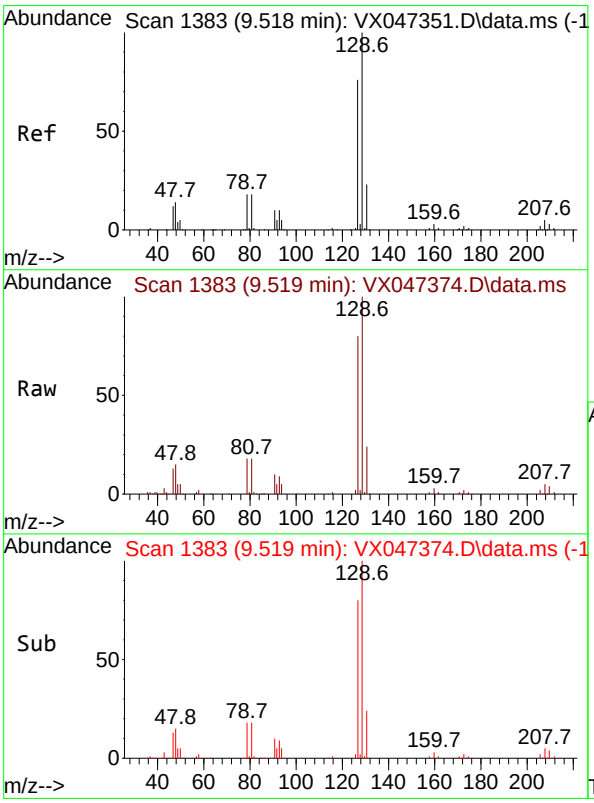
#59
2-Hexanone
Concen: 100.356 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 43 Resp: 260233

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.9	80.7

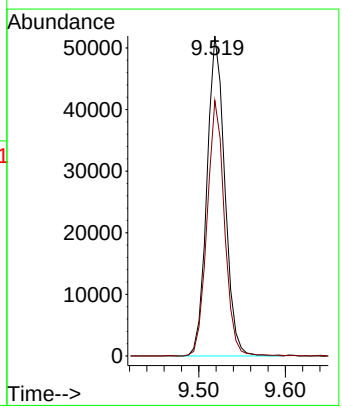


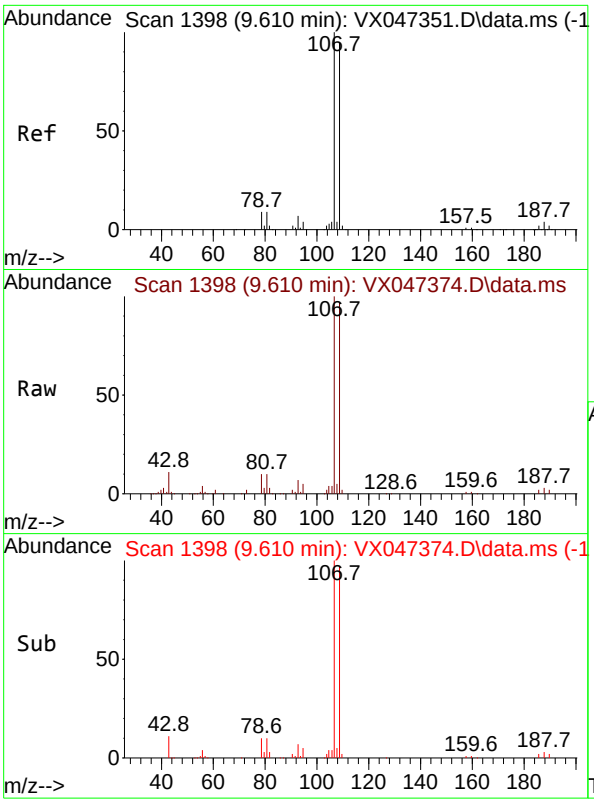


#60
Dibromochloromethane
Concen: 20.386 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:129 Resp: 74313

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.9	116.6



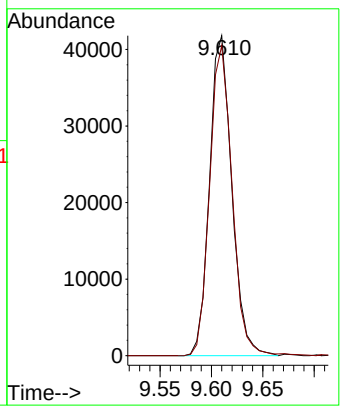


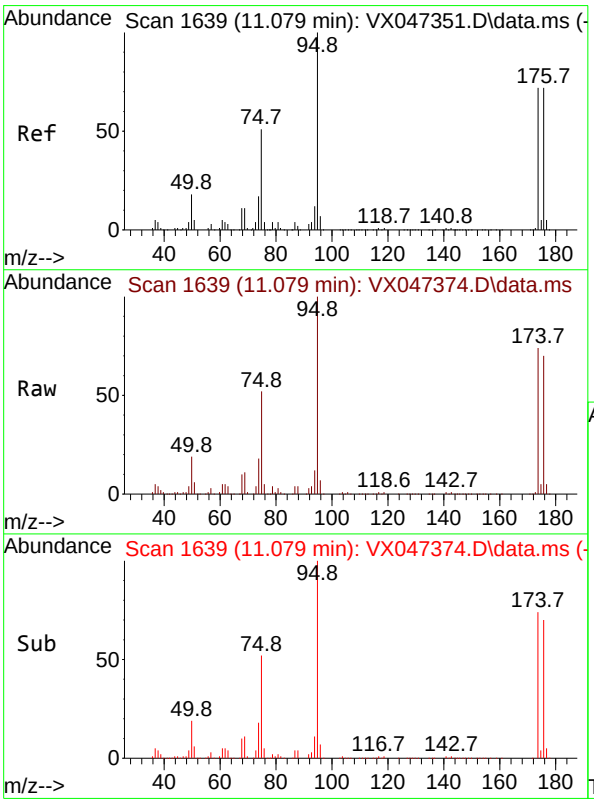
#61
1,2-Dibromoethane
Concen: 19.912 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:107 Resp: 62983

Ion	Ratio	Lower	Upper
107	100		
109	97.9	76.2	114.2

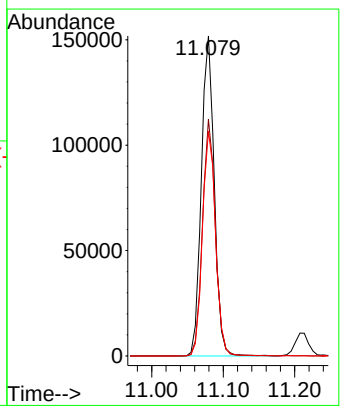


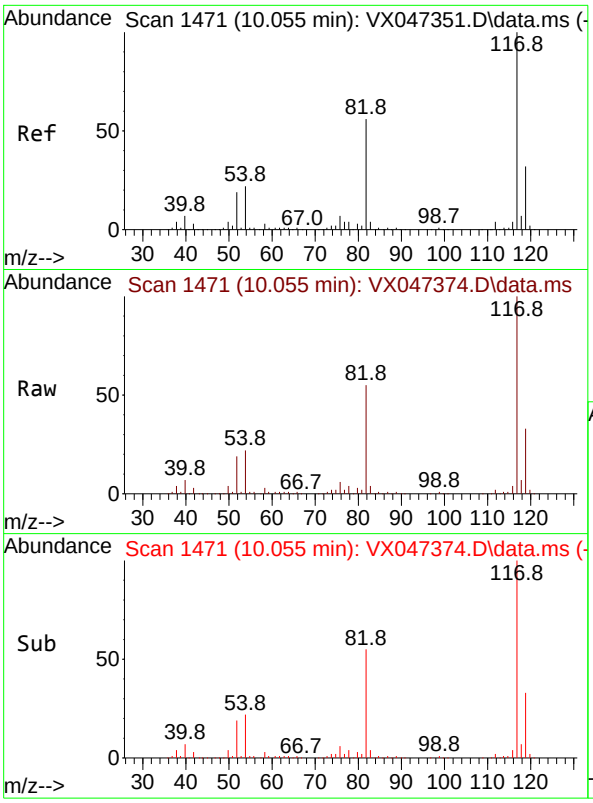


#62
4-Bromofluorobenzene
Concen: 52.129 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 95 Resp: 190251

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	148.0
176	71.6	0.0	145.4



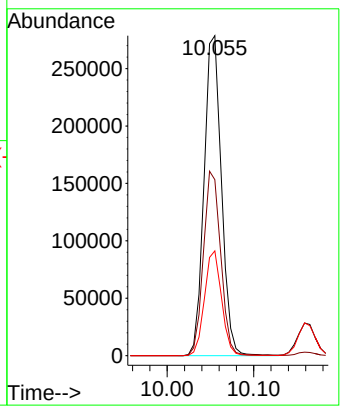


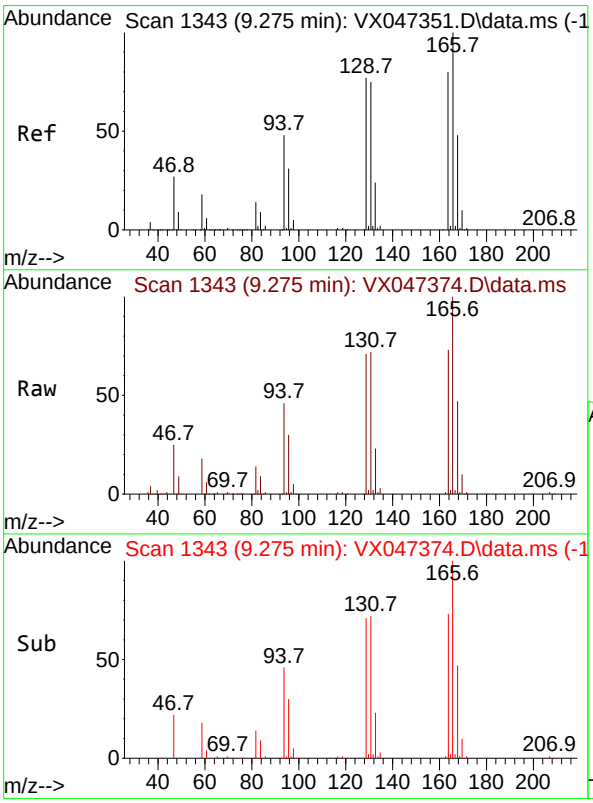
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:117 Resp: 389002

Ion	Ratio	Lower	Upper
117	100		
82	55.0	45.0	67.4
119	32.7	25.8	38.8

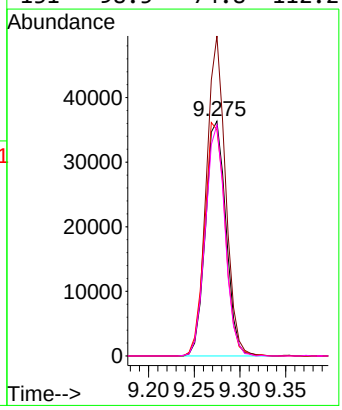


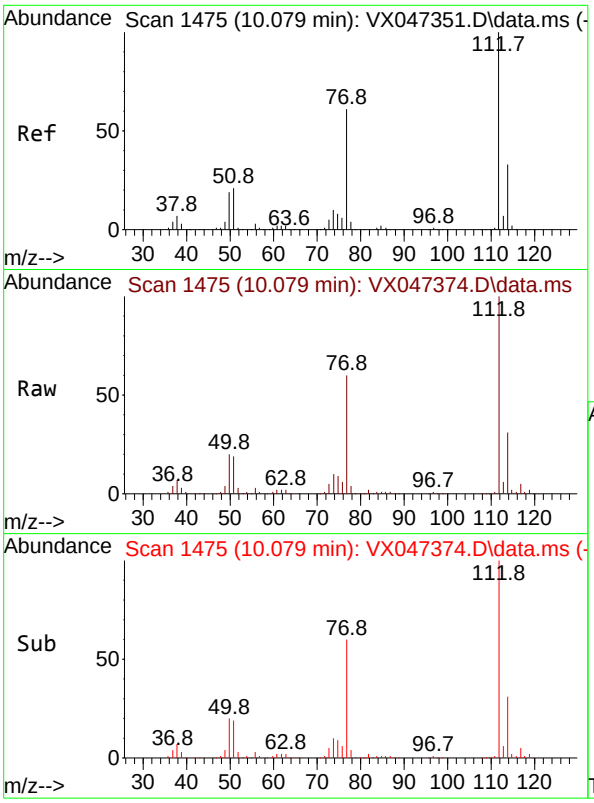


#64
Tetrachloroethene
Concen: 20.046 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:164 Resp: 56403

Ion	Ratio	Lower	Upper
164	100		
166	136.3	100.3	150.5
129	96.4	77.7	116.5
131	98.5	74.8	112.2



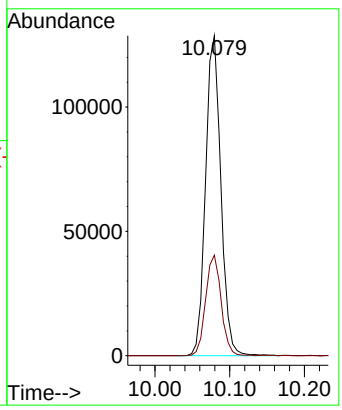


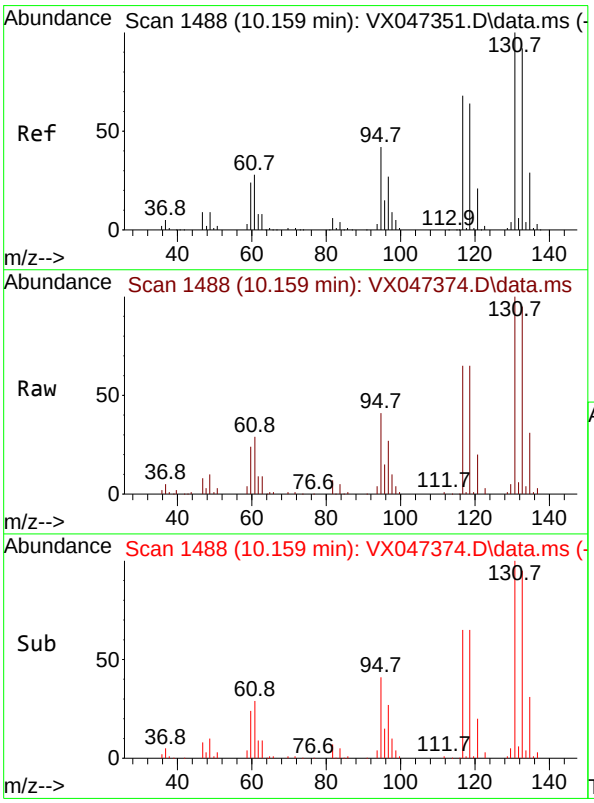
#65
Chlorobenzene
Concen: 19.780 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:112 Resp: 182846

Ion	Ratio	Lower	Upper
112	100		
114	31.4	26.4	39.6

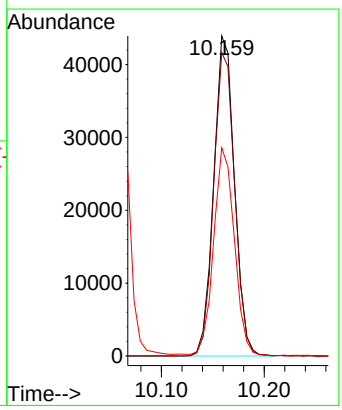


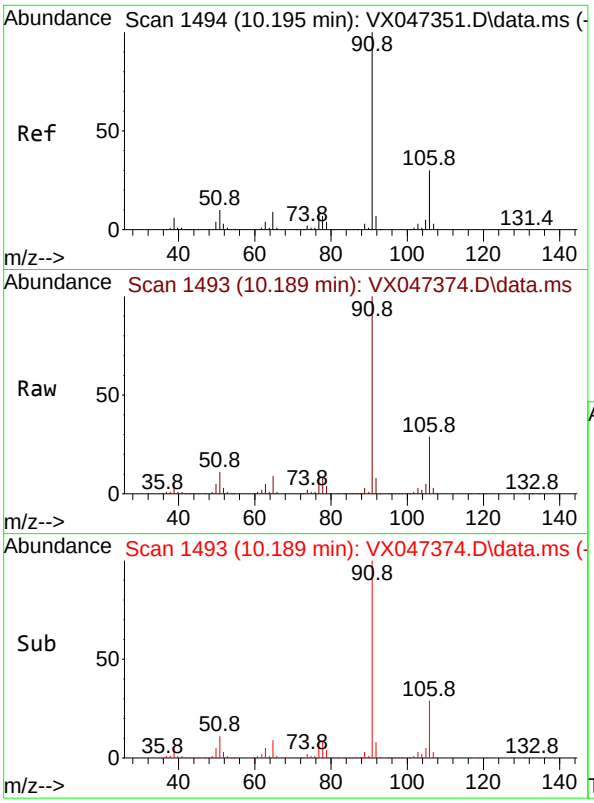


#66
1,1,1,2-Tetrachloroethane
Concen: 19.703 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:131 Resp: 61571

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.6	142.9
119	65.5	32.3	96.8



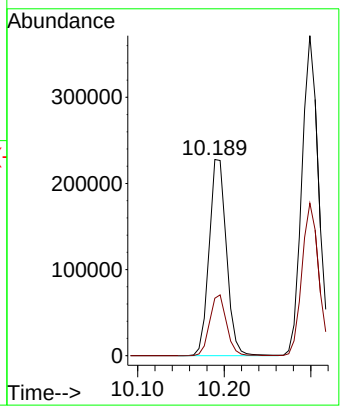


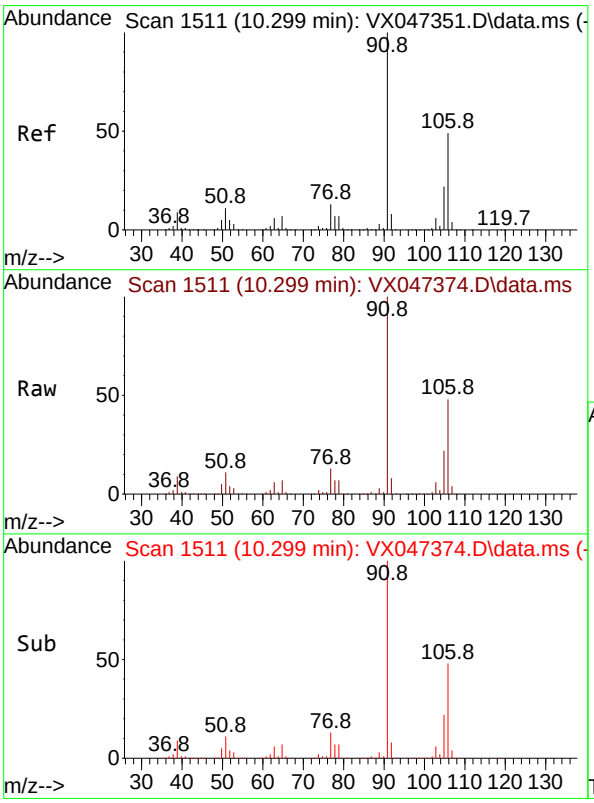
#67
Ethyl Benzene
Concen: 19.925 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 91 Resp: 317013

Ion	Ratio	Lower	Upper
91	100		
106	29.3	24.4	36.6

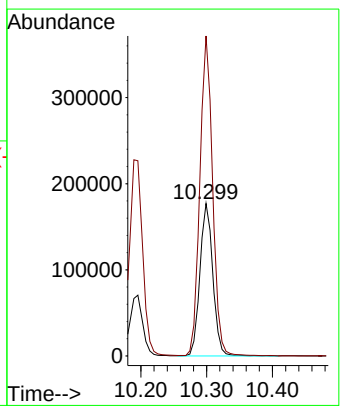


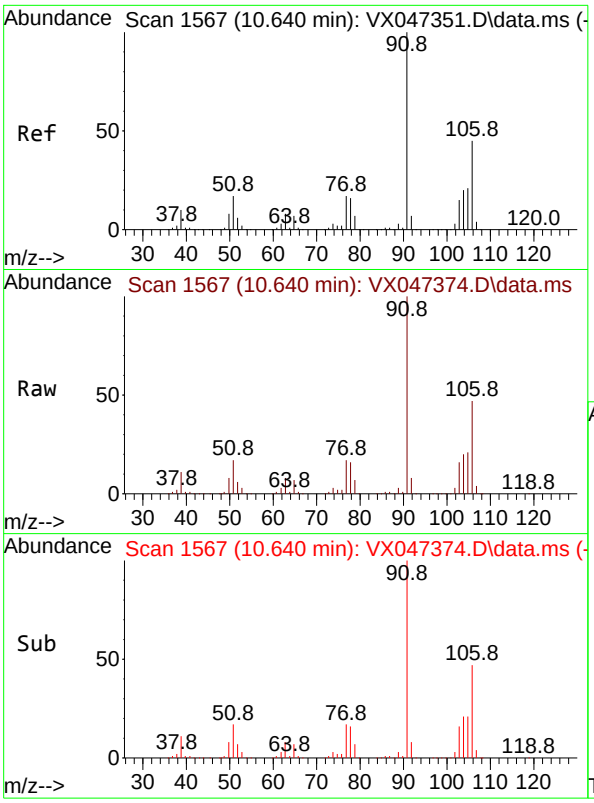


#68
m/p-Xylenes
Concen: 40.673 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:106 Resp: 241301

Ion	Ratio	Lower	Upper
106	100		
91	206.7	164.7	247.1



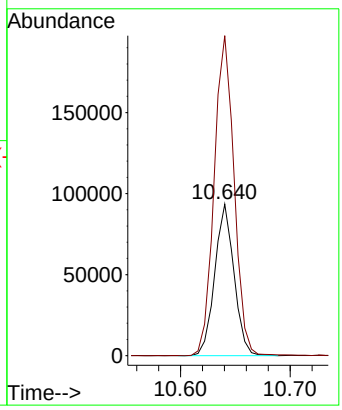


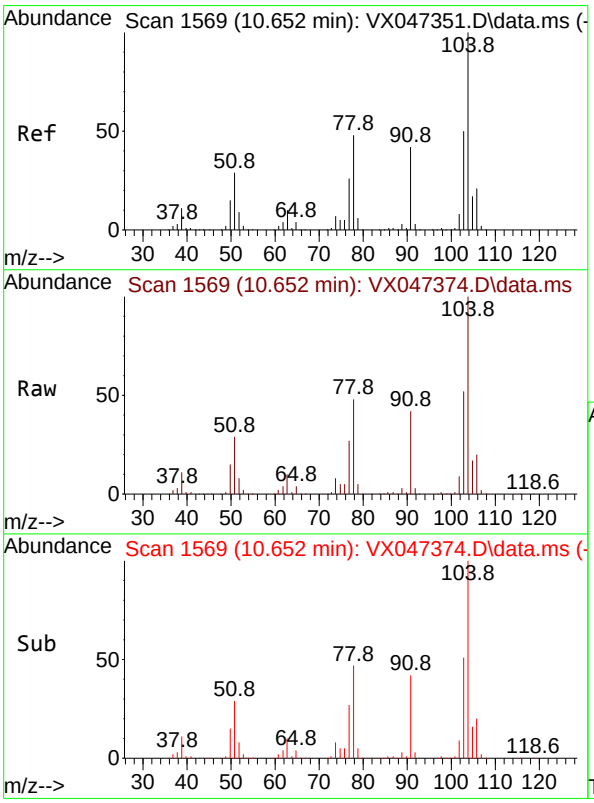
#69
o-Xylene
Concen: 20.042 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:106 Resp: 114422

Ion	Ratio	Lower	Upper
106	100		
91	219.2	110.6	331.8

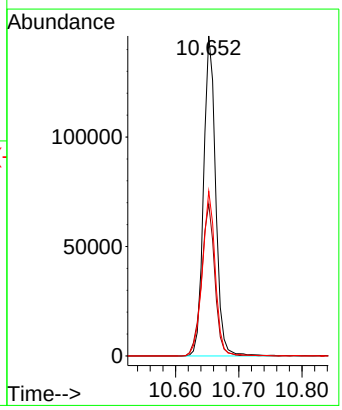


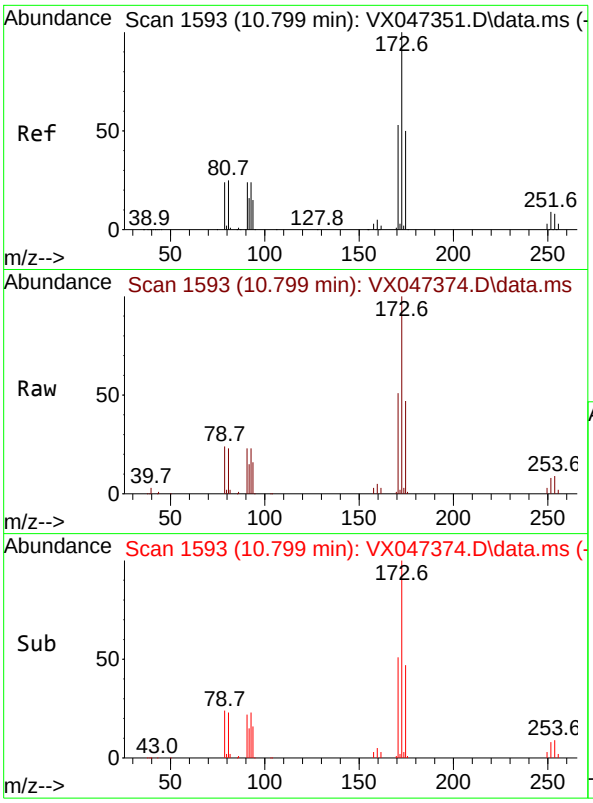


#70
Styrene
Concen: 20.197 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:104 Resp: 194838

Ion	Ratio	Lower	Upper
104	100		
78	51.9	41.8	62.8
103	55.0	43.6	65.4



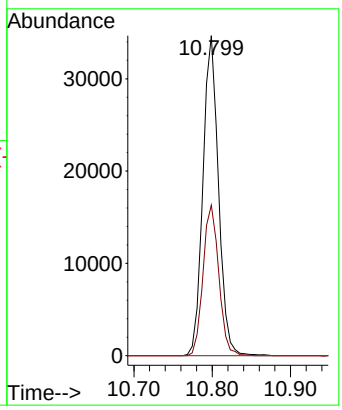


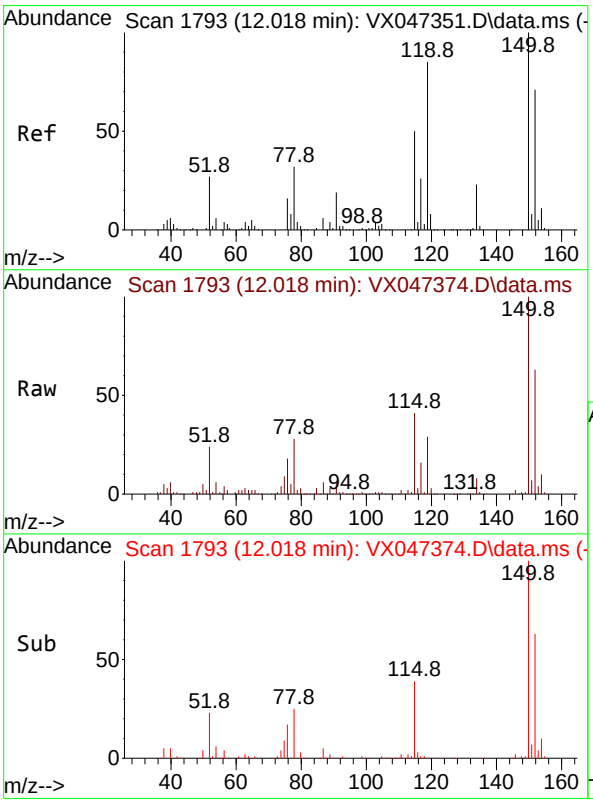
#71
Bromoform
Concen: 20.353 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:173 Resp: 47781

Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.4	73.4
254	0.0	0.1	0.1#

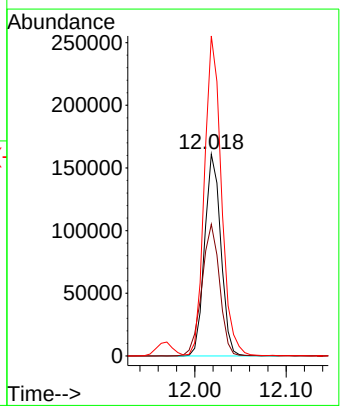


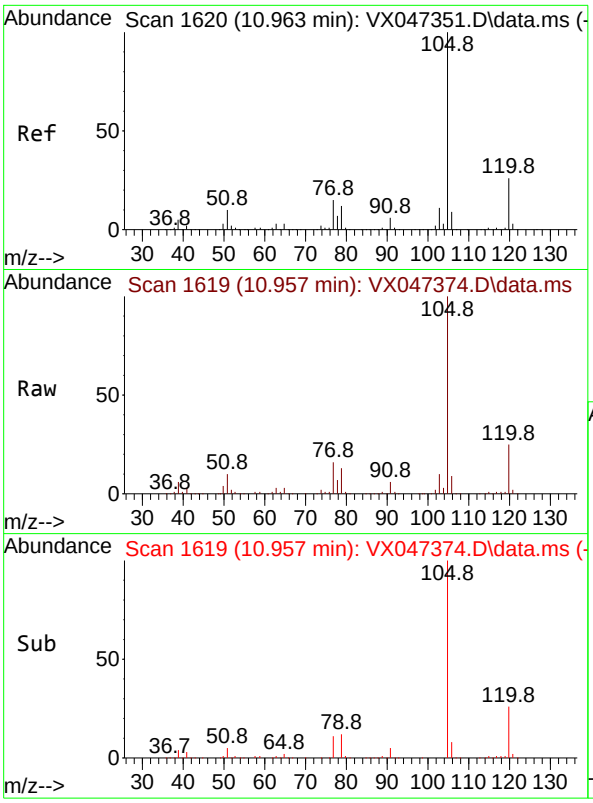


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:152 Resp: 197596

Ion	Ratio	Lower	Upper
152	100		
115	71.6	44.6	133.8
150	165.3	0.0	349.8



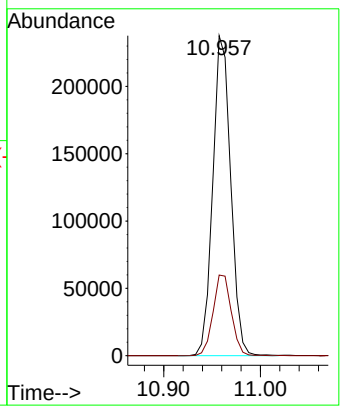


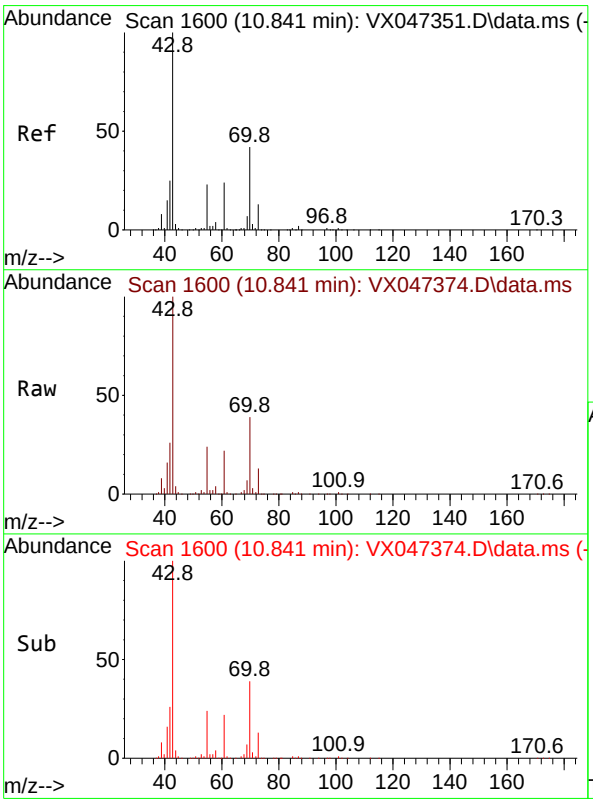
#73
Isopropylbenzene
Concen: 19.762 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:105 Resp: 305580

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.6

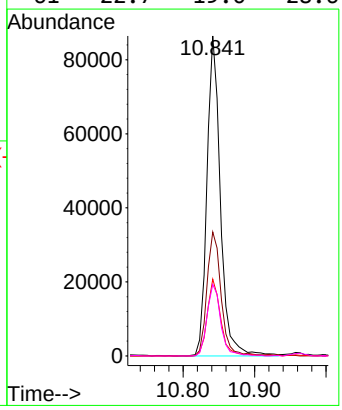


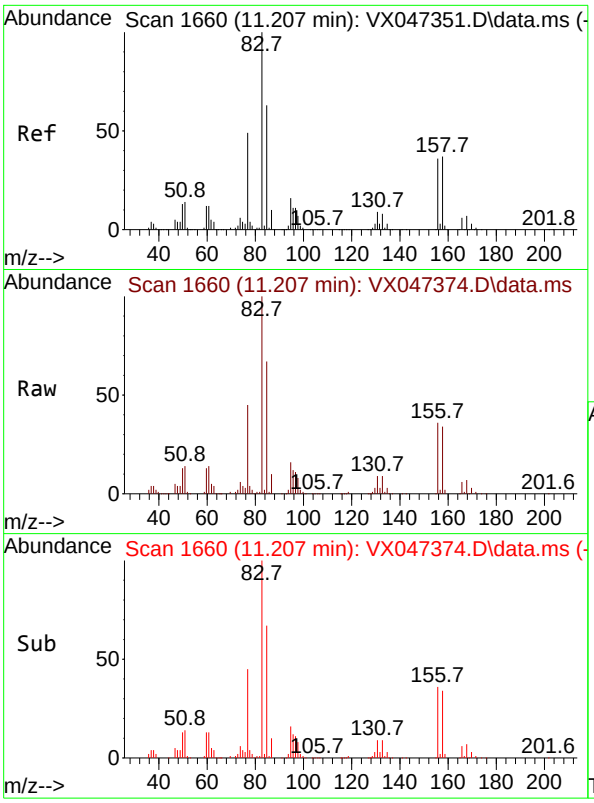


#74
N-amyl acetate
Concen: 19.269 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 43 Resp: 113146

Ion	Ratio	Lower	Upper
43	100		
70	40.6	33.1	49.7
55	24.0	19.0	28.6
61	22.7	19.0	28.6



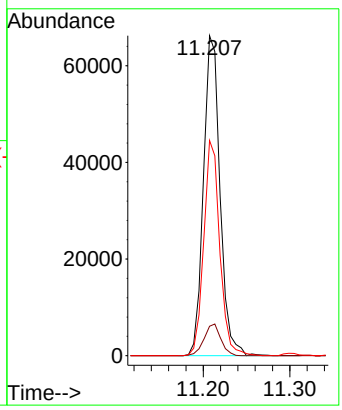


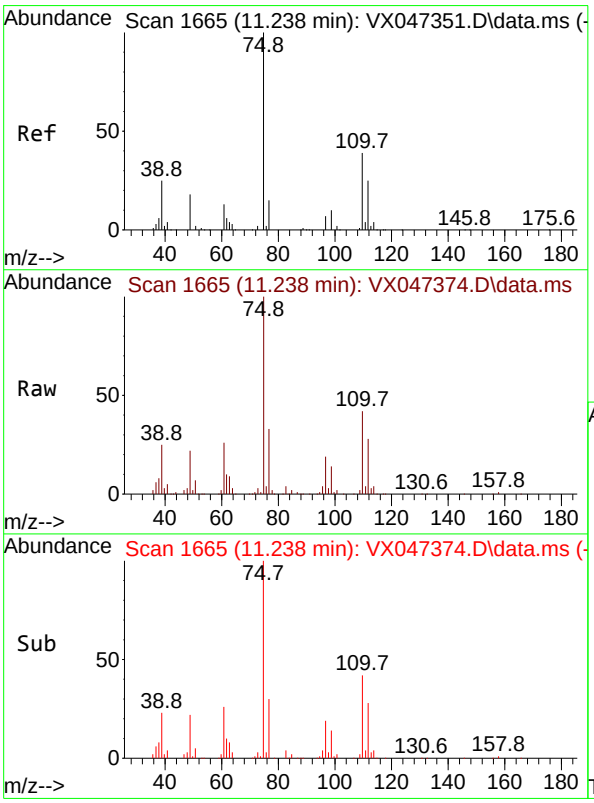
#75
1,1,2,2-Tetrachloroethane
Concen: 19.357 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 83 Resp: 87881

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	15.0
85	64.9	31.7	95.1

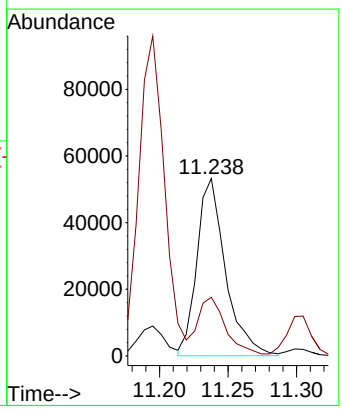


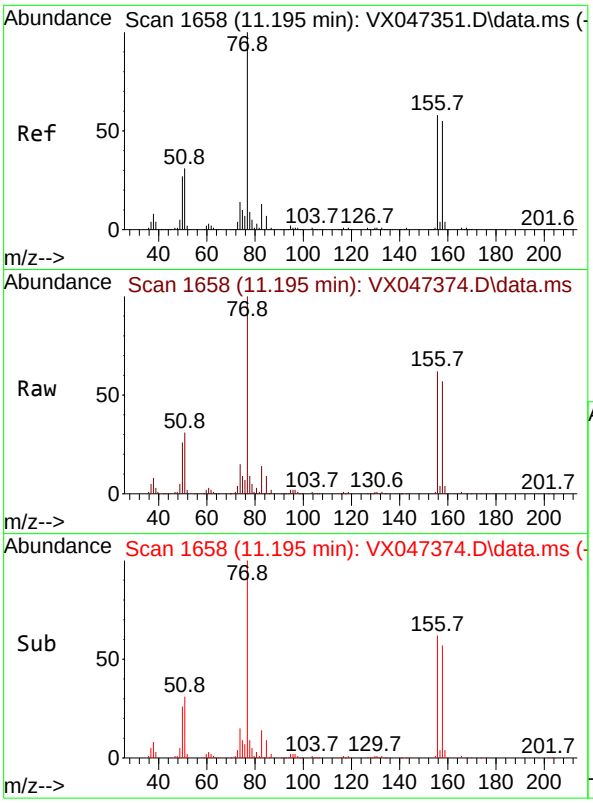


#76
1,2,3-Trichloropropane
Concen: 21.303 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 75 Resp: 77206

Ion	Ratio	Lower	Upper
75	100		
77	33.0	19.4	58.2



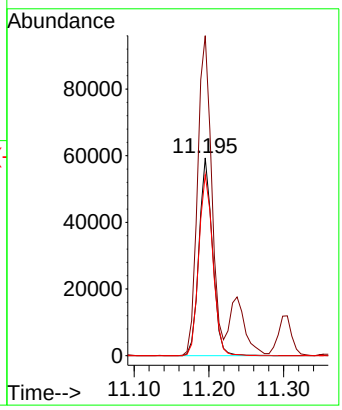


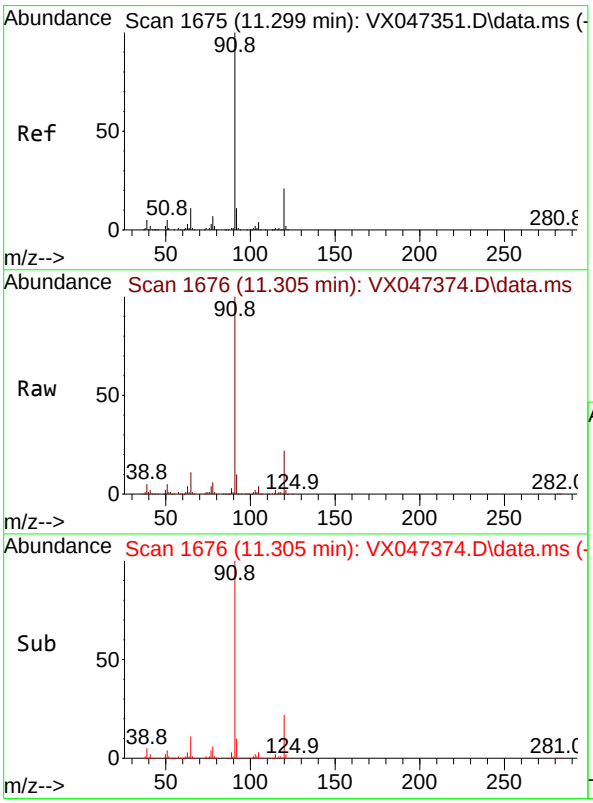
#77
Bromobenzene
Concen: 19.702 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:156 Resp: 74393

Ion	Ratio	Lower	Upper
156	100		
77	168.5	86.3	258.9
158	95.5	48.0	144.2

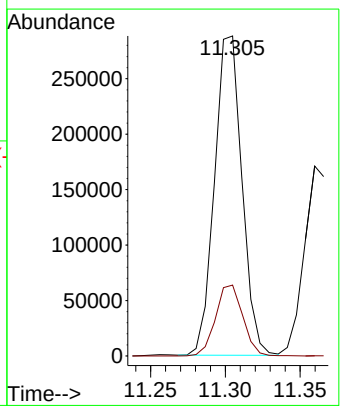


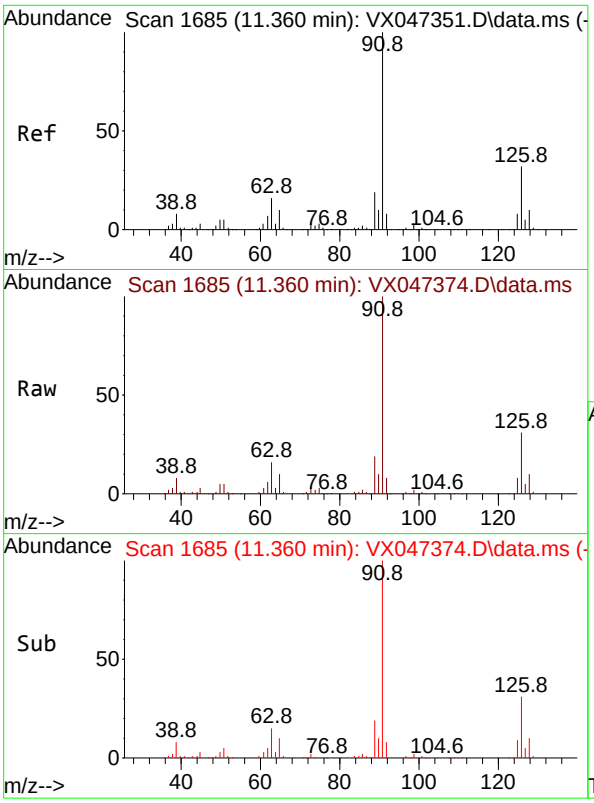


#78
n-propylbenzene
Concen: 19.888 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 91 Resp: 367285

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.0	33.0



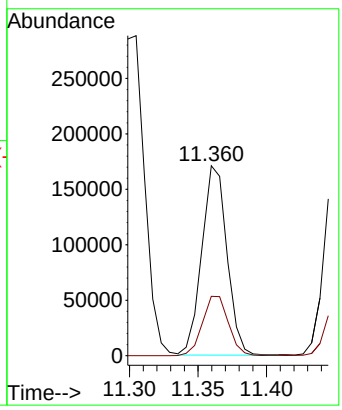


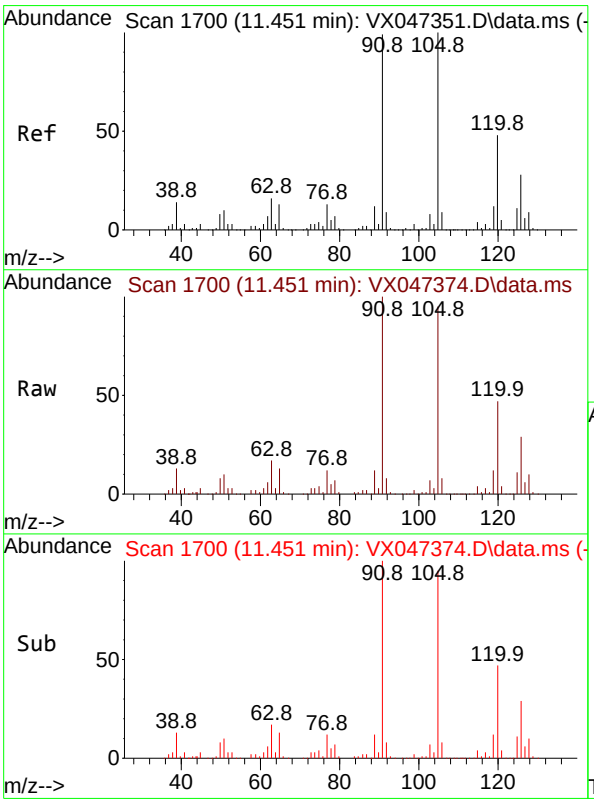
#79
2-Chlorotoluene
Concen: 19.548 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 91 Resp: 218232

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.7	50.1

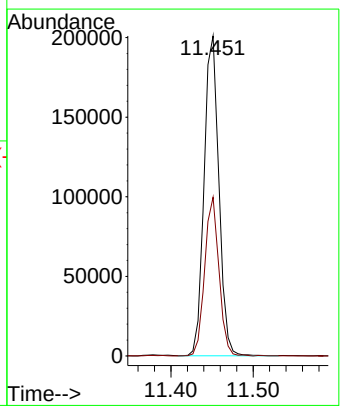


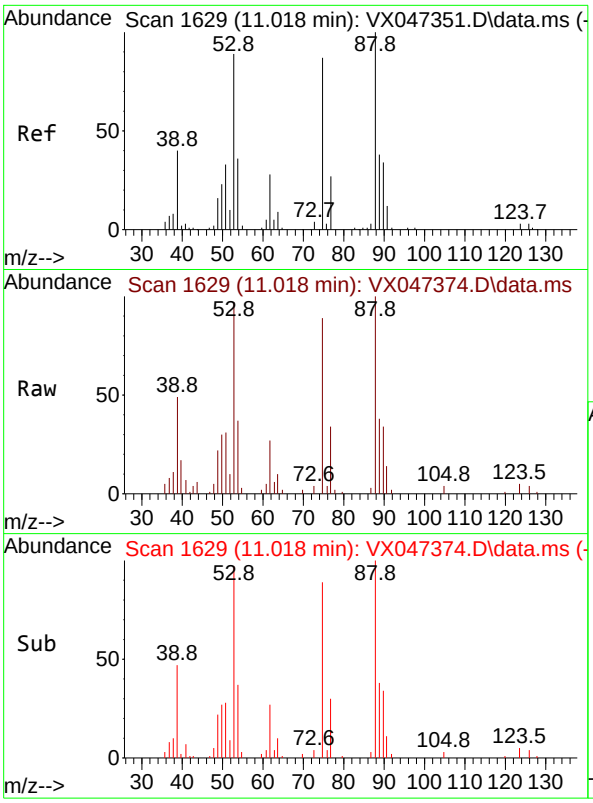


#80
1,3,5-Trimethylbenzene
Concen: 19.707 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:105 Resp: 250724

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.9	71.7



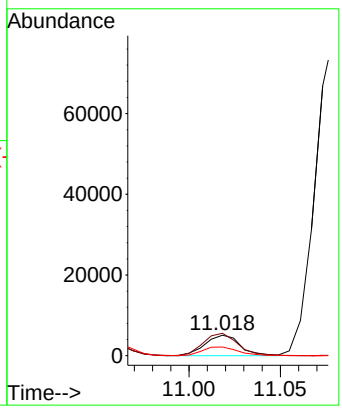


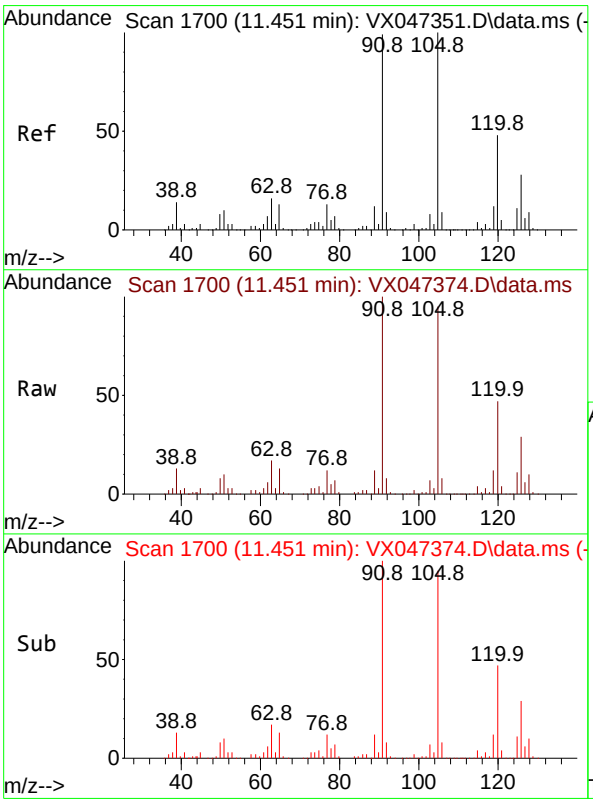
#81
trans-1,4-Dichloro-2-butene
Concen: 14.737 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 75 Resp: 6799

Ion	Ratio	Lower	Upper
75	100		
53	107.7	85.2	127.8
89	44.1	36.7	55.1

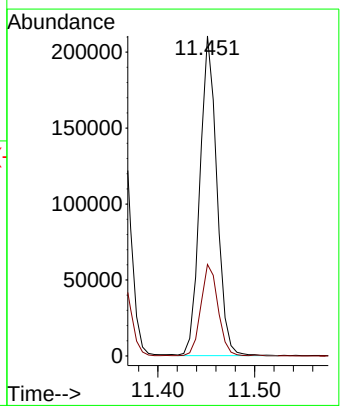


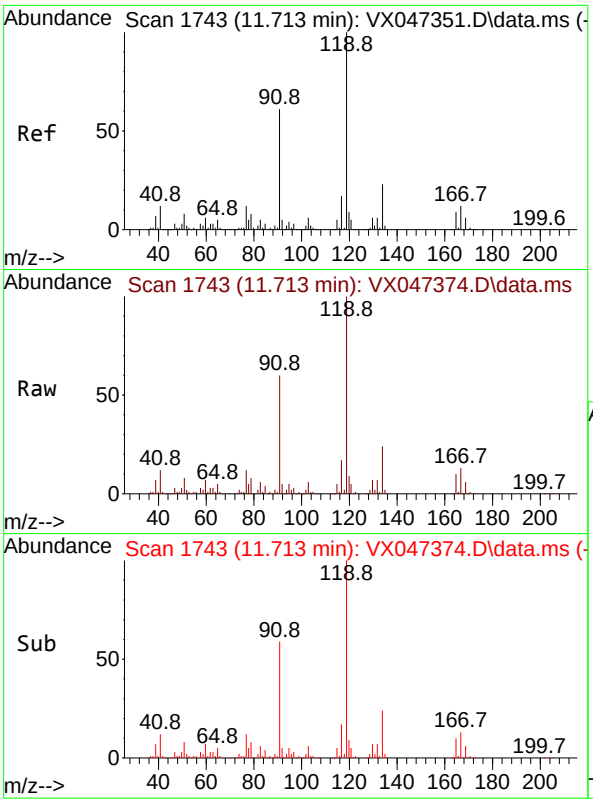


#82
4-Chlorotoluene
Concen: 19.496 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 91 Resp: 256557

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.4	43.0



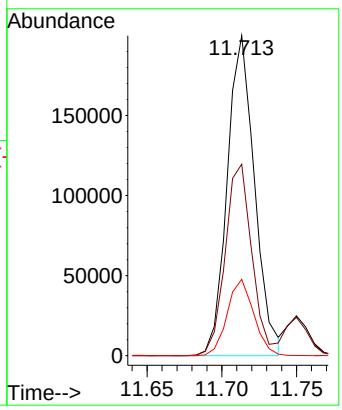


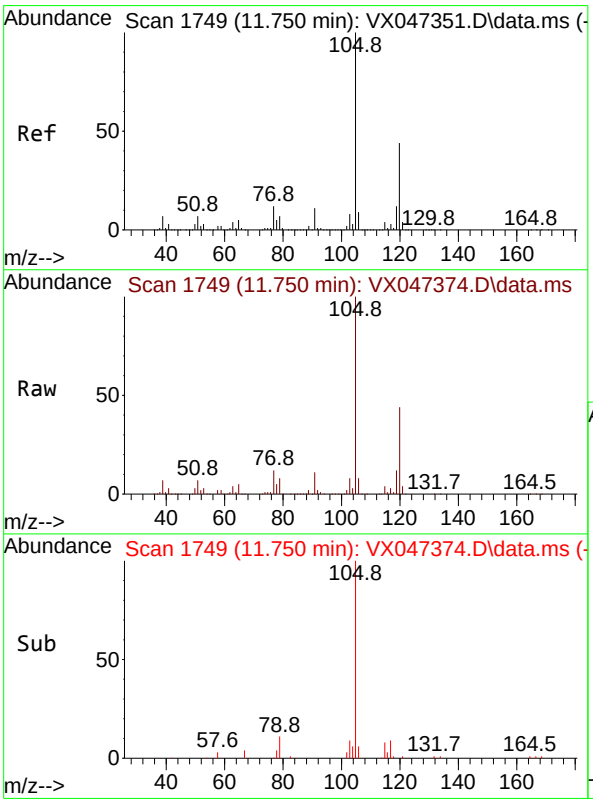
#83
tert-Butylbenzene
Concen: 20.048 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:119 Resp: 254465

Ion	Ratio	Lower	Upper
119	100		
91	57.9	29.1	87.4
134	23.1	11.3	33.9

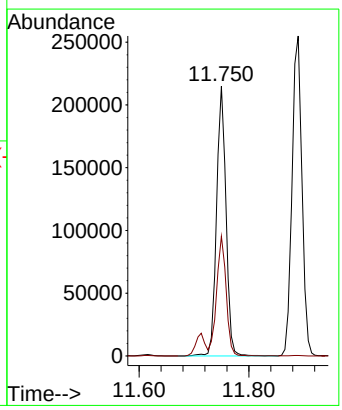


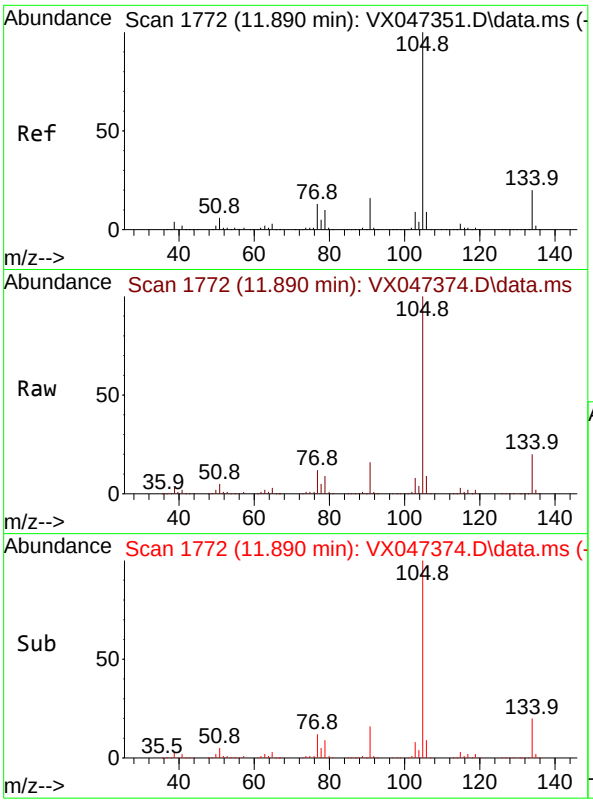


#84
1,2,4-Trimethylbenzene
Concen: 20.190 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:105 Resp: 256880

Ion	Ratio	Lower	Upper
105	100		
120	44.8	21.9	65.7



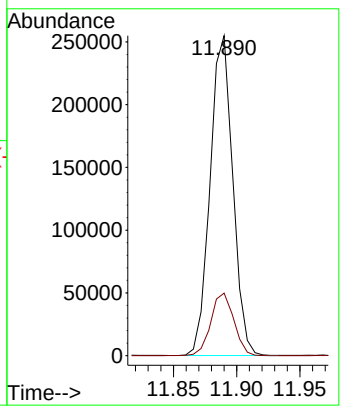


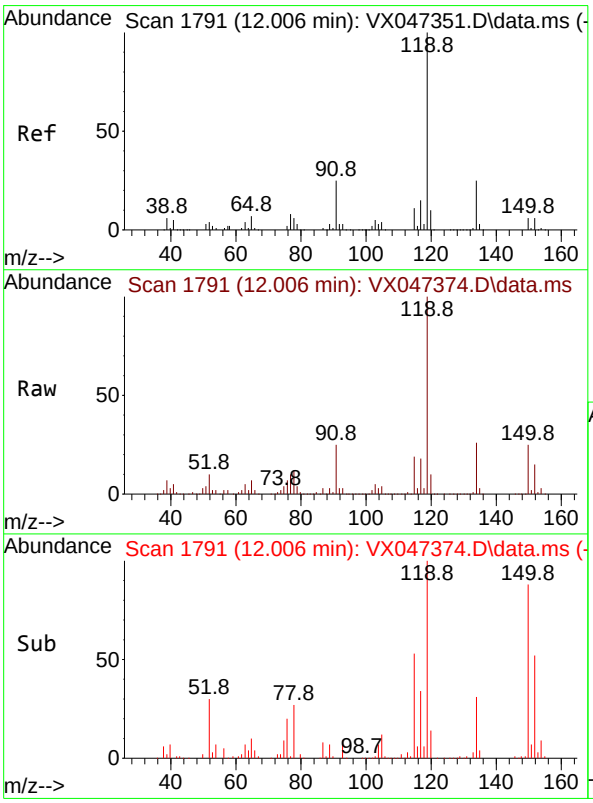
#85
sec-Butylbenzene
Concen: 20.203 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:105 Resp: 317850

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5

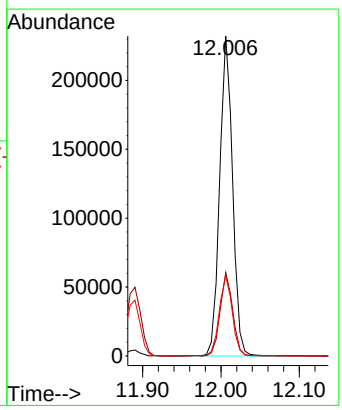


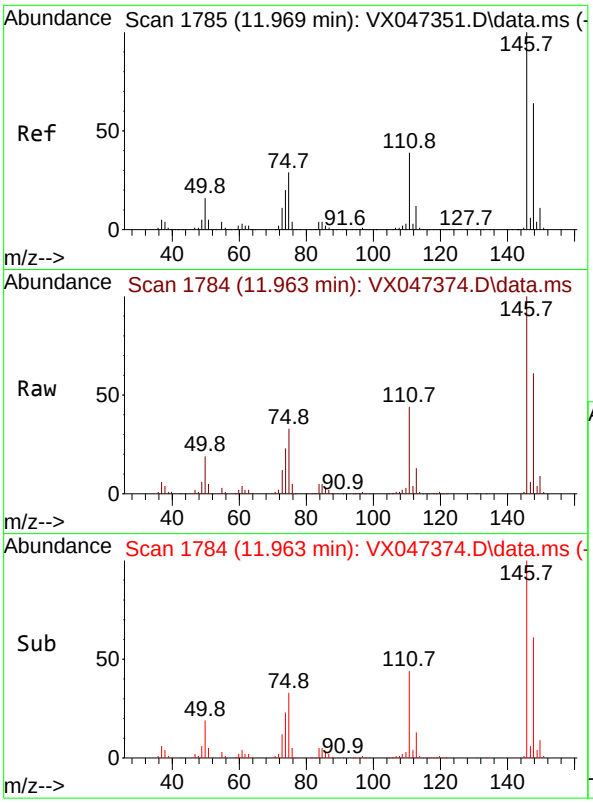


#86
p-Isopropyltoluene
Concen: 19.987 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:119 Resp: 266082

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.4
91	25.4	12.4	37.4



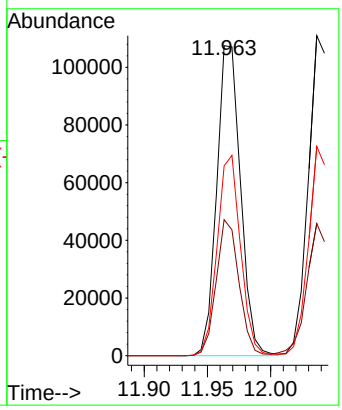


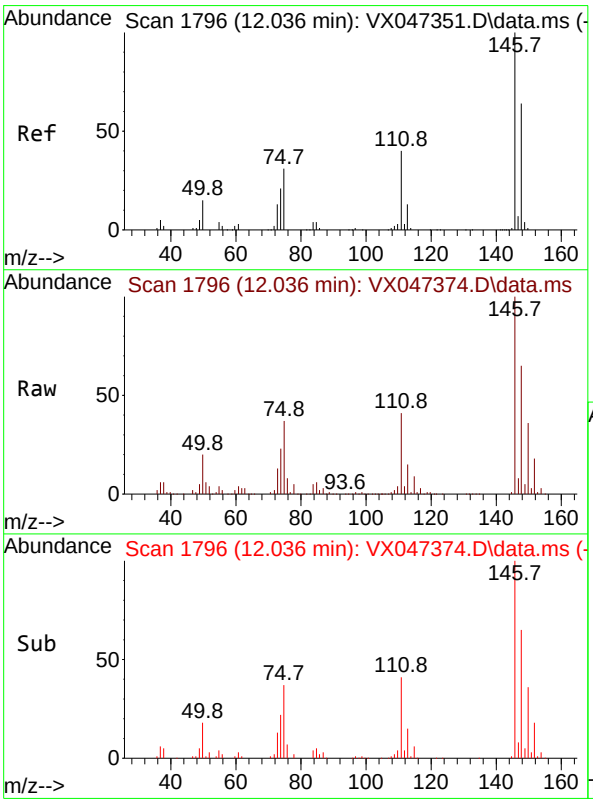
#87
1,3-Dichlorobenzene
Concen: 19.511 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:146 Resp: 140744

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.6	61.8
148	63.4	31.9	95.5

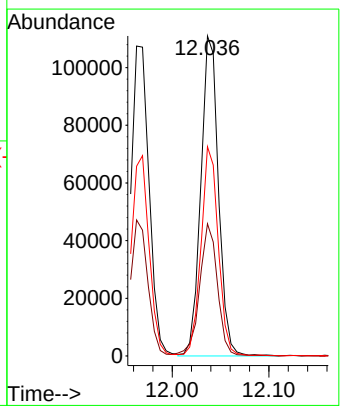


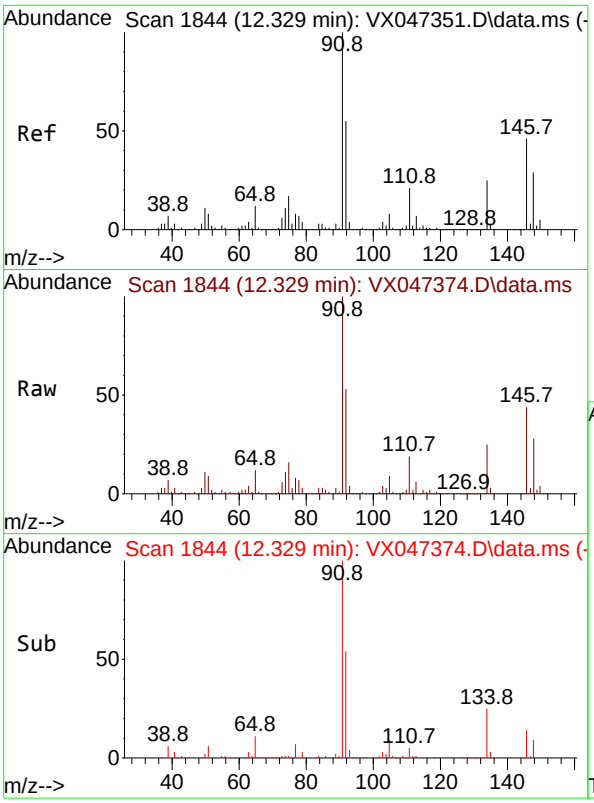


#88
1,4-Dichlorobenzene
Concen: 19.010 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:146 Resp: 141033

Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.4	61.2
148	63.5	31.7	95.1



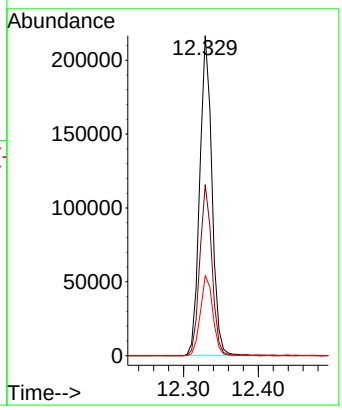


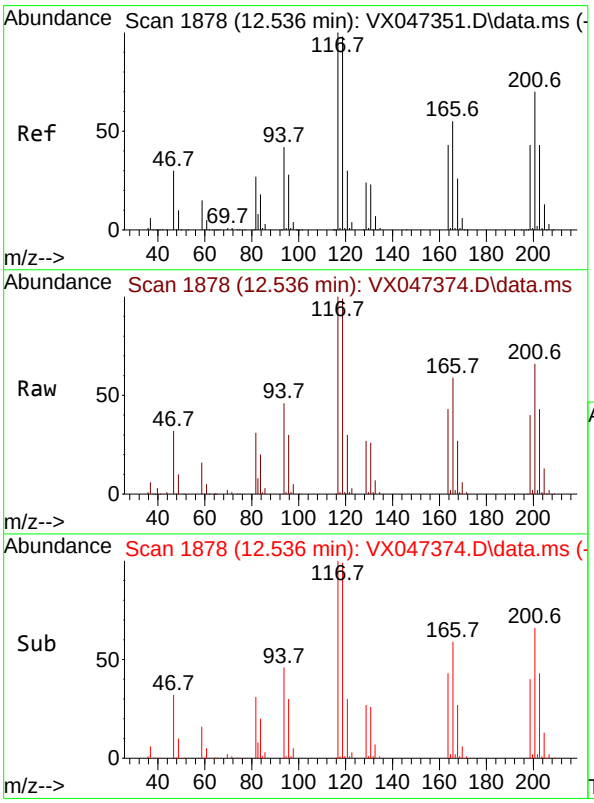
#89
n-Butylbenzene
Concen: 19.856 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion: 91 Resp: 245865

Ion	Ratio	Lower	Upper
91	100		
92	53.2	27.2	81.5
134	25.7	12.6	37.8

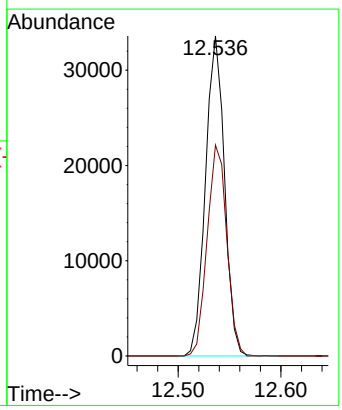


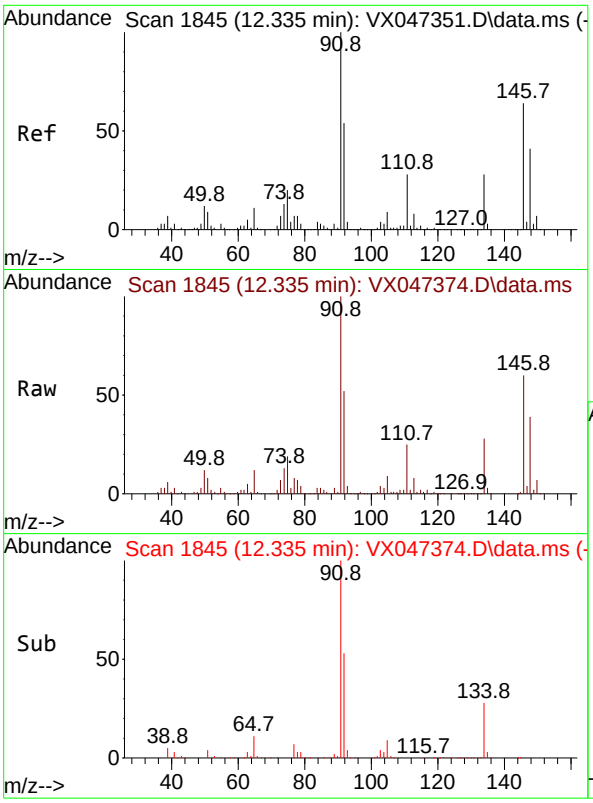


#90
Hexachloroethane
Concen: 18.488 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:117 Resp: 43179

Ion	Ratio	Lower	Upper
117	100		
201	68.1	35.1	105.3



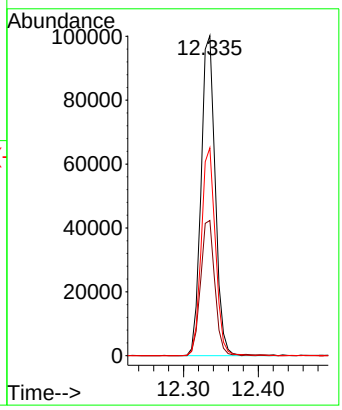


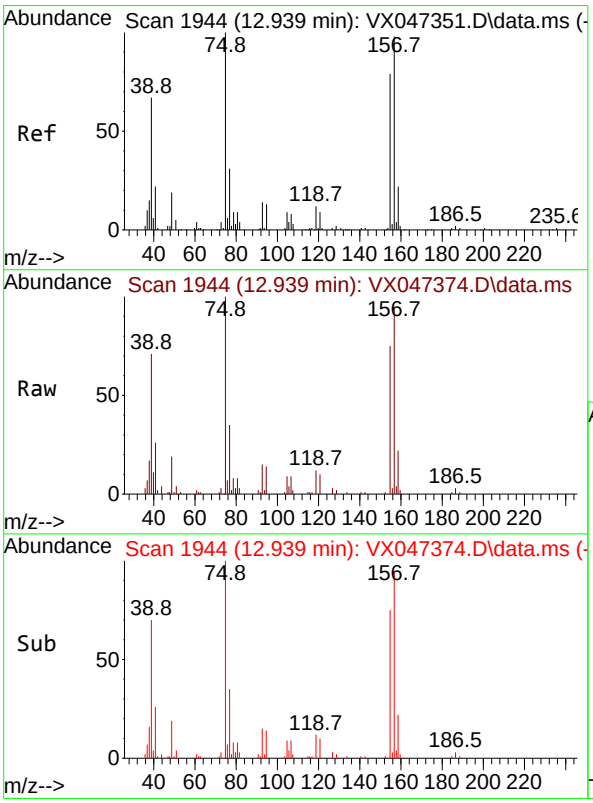
#91
1,2-Dichlorobenzene
Concen: 19.282 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:146 Resp: 132017

Ion	Ratio	Lower	Upper
146	100		
111	42.4	22.1	66.1
148	64.9	31.9	95.5

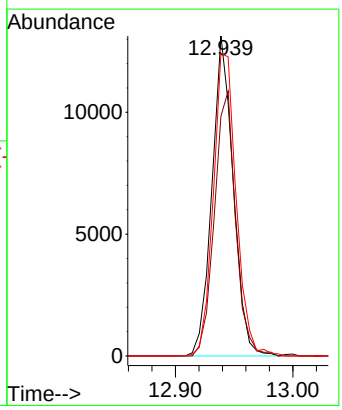


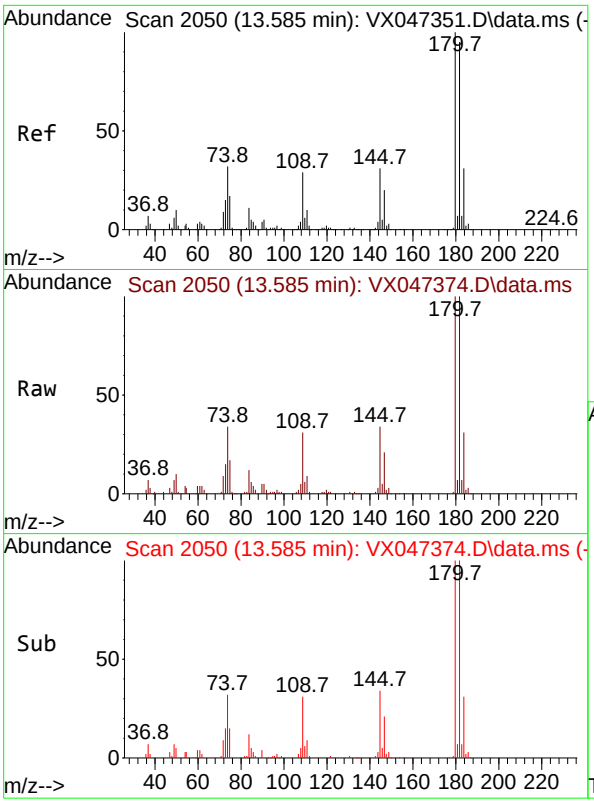


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.808 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion: 75 Resp: 16513

Ion	Ratio	Lower	Upper
75	100		
155	82.7	41.3	123.7
157	101.8	51.5	154.5



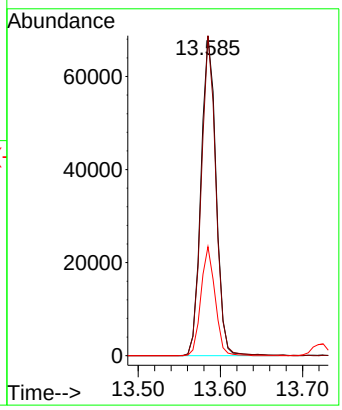


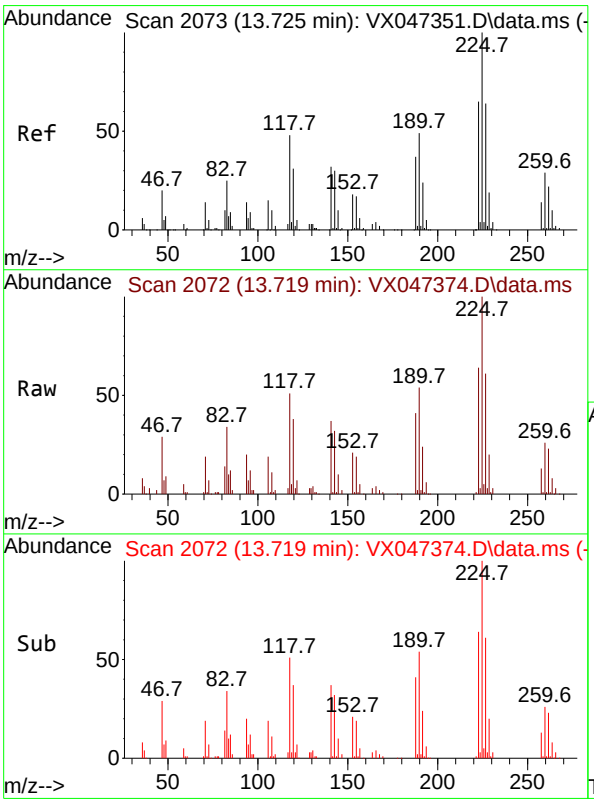
#93
1,2,4-Trichlorobenzene
Concen: 18.974 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:180 Resp: 87089

Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.1	144.4
145	32.0	16.2	48.5

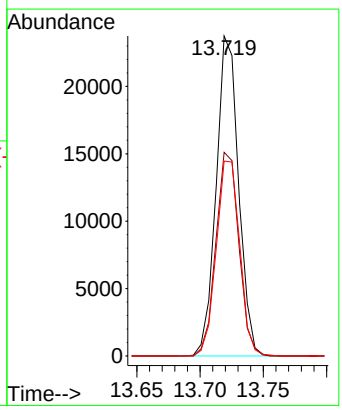


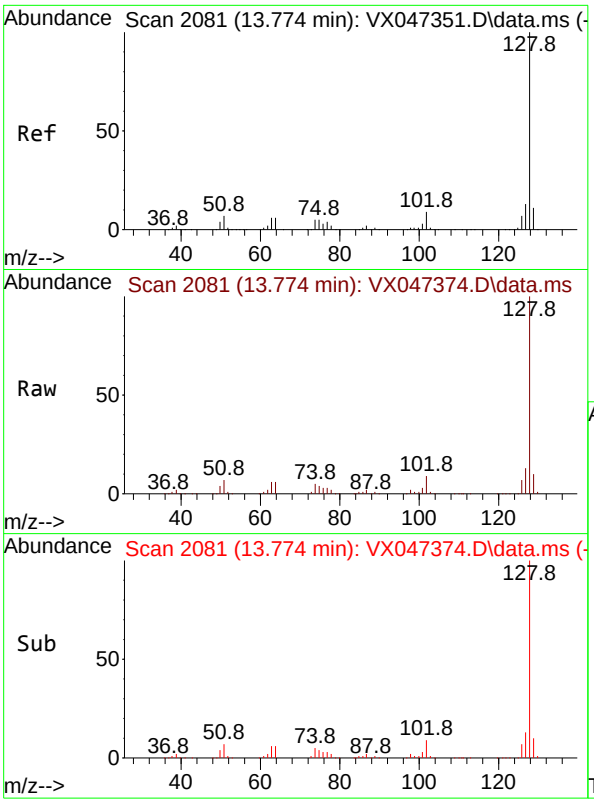


#94
Hexachlorobutadiene
Concen: 17.856 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:225 Resp: 29173

Ion	Ratio	Lower	Upper
225	100		
223	65.1	32.2	96.6
227	63.8	31.6	95.0



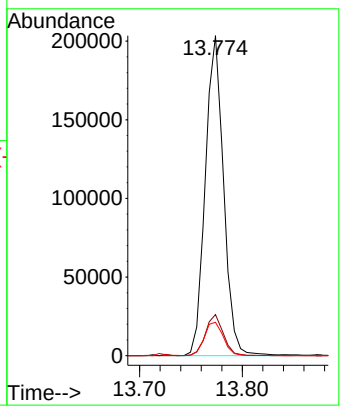


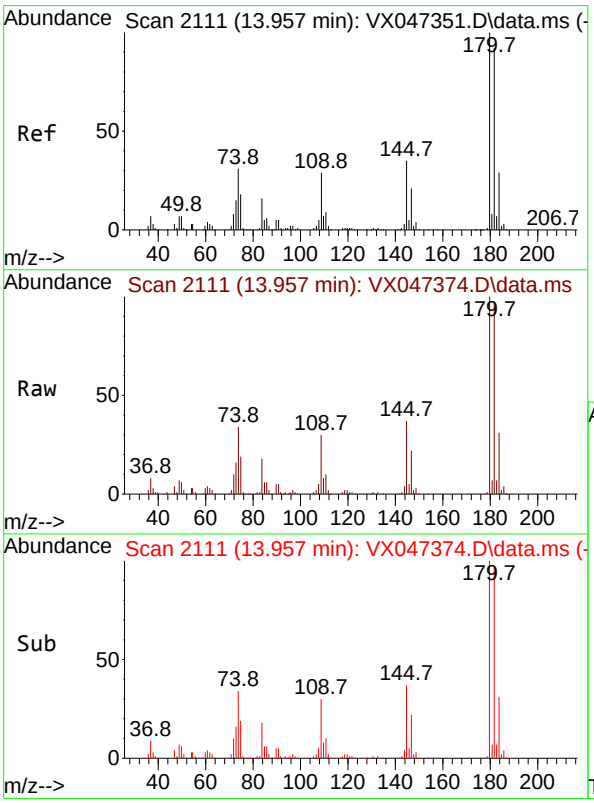
#95
Naphthalene
Concen: 19.219 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBS01

Tgt Ion:128 Resp: 252094

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.1	15.1
129	11.0	8.7	13.1

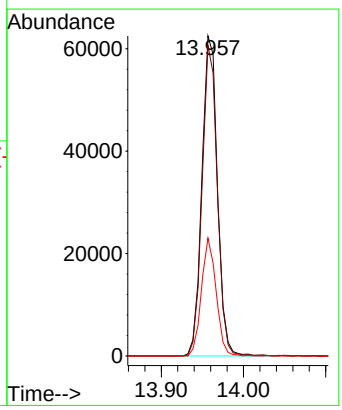




#96
1,2,3-Trichlorobenzene
Concen: 18.987 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047374.D
Acq: 18 Aug 2025 12:17

Tgt Ion:180 Resp: 82149

Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.0	144.2
145	34.7	17.4	52.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047375.D
Acq On : 18 Aug 2025 12:44
Operator : JC/MD
Sample : VX0818WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Quant Time: Aug 19 01:39:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	235521	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	398008	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	370209	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	191427	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	170578	51.750	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.500%			
35) Dibromofluoromethane	5.391	113	133458	51.666	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.340%			
50) Toluene-d8	8.647	98	474556	51.399	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.800%			
62) 4-Bromofluorobenzene	11.079	95	179282	52.621	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	60494	20.149	ug/l	99
3) Chloromethane	1.313	50	61794	22.879	ug/l	100
4) Vinyl Chloride	1.392	62	63982	18.874	ug/l #	39
5) Bromomethane	1.630	94	20458	14.941	ug/l	91
6) Chloroethane	1.709	64	48061	23.172	ug/l	100
7) Trichlorofluoromethane	1.904	101	96712	19.287	ug/l	98
8) Diethyl Ether	2.148	74	35126	19.894	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	58430	20.088	ug/l	99
10) Methyl Iodide	2.471	142	82525	16.556	ug/l	99
11) Tert butyl alcohol	2.959	59	32361	112.854	ug/l	97
12) 1,1-Dichloroethene	2.337	96	56741	19.134	ug/l	97
13) Acrolein	2.252	56	486	0.803	ug/l #	1
14) Allyl chloride	2.678	41	83905	16.291	ug/l	97
15) Acrylonitrile	3.081	53	145392	104.929	ug/l	99
16) Acetone	2.392	43	125152	101.012	ug/l	99
17) Carbon Disulfide	2.532	76	191928	21.448	ug/l	100
18) Methyl Acetate	2.715	43	72026	22.433	ug/l	94
19) Methyl tert-butyl Ether	3.123	73	184426	20.443	ug/l	96
20) Methylene Chloride	2.806	84	63679	19.409	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	60251	19.143	ug/l	97
22) Diisopropyl ether	3.770	45	209869	20.614	ug/l	86
23) Vinyl Acetate	3.733	43	860528	103.122	ug/l	100
24) 1,1-Dichloroethane	3.623	63	113813	19.778	ug/l	98
25) 2-Butanone	4.568	43	169460	104.434	ug/l	97
26) 2,2-Dichloropropane	4.483	77	80899	18.626	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	72443	19.762	ug/l	99
28) Bromochloromethane	4.904	49	47835	19.976	ug/l	99
29) Tetrahydrofuran	5.025	42	106985	102.008	ug/l	98
30) Chloroform	5.099	83	118735	20.217	ug/l	97
31) Cyclohexane	5.477	56	102512	19.325	ug/l	95
32) 1,1,1-Trichloroethane	5.391	97	100146	19.811	ug/l	98
36) 1,1-Dichloropropene	5.702	75	80725	19.797	ug/l	99
37) Ethyl Acetate	4.721	43	79484	18.776	ug/l	97
38) Carbon Tetrachloride	5.684	117	89631	20.115	ug/l	95
39) Methylcyclohexane	7.385	83	100021	19.665	ug/l	92
40) Benzene	6.044	78	249658	20.455	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047375.D
Acq On : 18 Aug 2025 12:44
Operator : JC/MD
Sample : VX0818WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Quant Time: Aug 19 01:39:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	36850	20.643	ug/l		98
42) 1,2-Dichloroethane	6.092	62	90345	20.898	ug/l		99
43) Isopropyl Acetate	6.342	43	125441	20.627	ug/l		99
44) Trichloroethene	7.129	130	61892	19.804	ug/l		99
45) 1,2-Dichloropropane	7.434	63	62740	20.519	ug/l		92
46) Dibromomethane	7.586	93	46329	20.871	ug/l		98
47) Bromodichloromethane	7.824	83	92962	20.201	ug/l		98
48) Methyl methacrylate	7.696	41	64892	20.557	ug/l		97
49) 1,4-Dioxane	7.684	88	11209	365.275	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	380754	108.800	ug/l		98
52) Toluene	8.720	92	158216	20.978	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	83433	20.773	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	91678	20.167	ug/l		99
55) 1,1,2-Trichloroethane	9.153	97	59627	20.823	ug/l		98
56) Ethyl methacrylate	9.116	69	88354	20.928	ug/l		99
57) 1,3-Dichloropropane	9.305	76	102836	21.076	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	178905	94.134	ug/l		98
59) 2-Hexanone	9.433	43	258269	106.690	ug/l		99
60) Dibromochloromethane	9.519	129	71298	20.951	ug/l		100
61) 1,2-Dibromoethane	9.610	107	62071	21.021	ug/l		98
64) Tetrachloroethene	9.275	164	53436	19.955	ug/l		98
65) Chlorobenzene	10.079	112	173739	19.748	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	60140	20.222	ug/l		98
67) Ethyl Benzene	10.195	91	299018	19.748	ug/l		99
68) m/p-Xylenes	10.299	106	228585	40.486	ug/l		100
69) o-Xylene	10.640	106	107309	19.750	ug/l		100
70) Styrene	10.652	104	184361	20.081	ug/l		100
71) Bromoform	10.799	173	46255	20.703	ug/l	#	100
73) Isopropylbenzene	10.957	105	287576	19.197	ug/l		100
74) N-amyl acetate	10.841	43	111520	19.604	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	87410	19.874	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	72255	20.580	ug/l		92
77) Bromobenzene	11.195	156	71076	19.430	ug/l		99
78) n-propylbenzene	11.305	91	341340	19.079	ug/l		99
79) 2-Chlorotoluene	11.360	91	207518	19.188	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	241050	19.557	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	6928	15.093	ug/l		91
82) 4-Chlorotoluene	11.451	91	244966	19.215	ug/l		99
83) tert-Butylbenzene	11.713	119	238742	19.415	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	241810	19.618	ug/l		99
85) sec-Butylbenzene	11.890	105	301301	19.769	ug/l		98
86) p-Isopropyltoluene	12.006	119	249604	19.353	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	134802	19.290	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	136399	18.977	ug/l		99
89) n-Butylbenzene	12.329	91	228427	19.042	ug/l		100
90) Hexachloroethane	12.536	117	40863	18.060	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	128589	19.386	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	17026	20.017	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	83552	18.790	ug/l		100
94) Hexachlorobutadiene	13.719	225	28659	18.107	ug/l		97
95) Naphthalene	13.774	128	248413	19.549	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	80375	19.176	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047375.D
Acq On : 18 Aug 2025 12:44
Operator : JC/MD
Sample : VX0818WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Quant Time: Aug 19 01:39:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

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

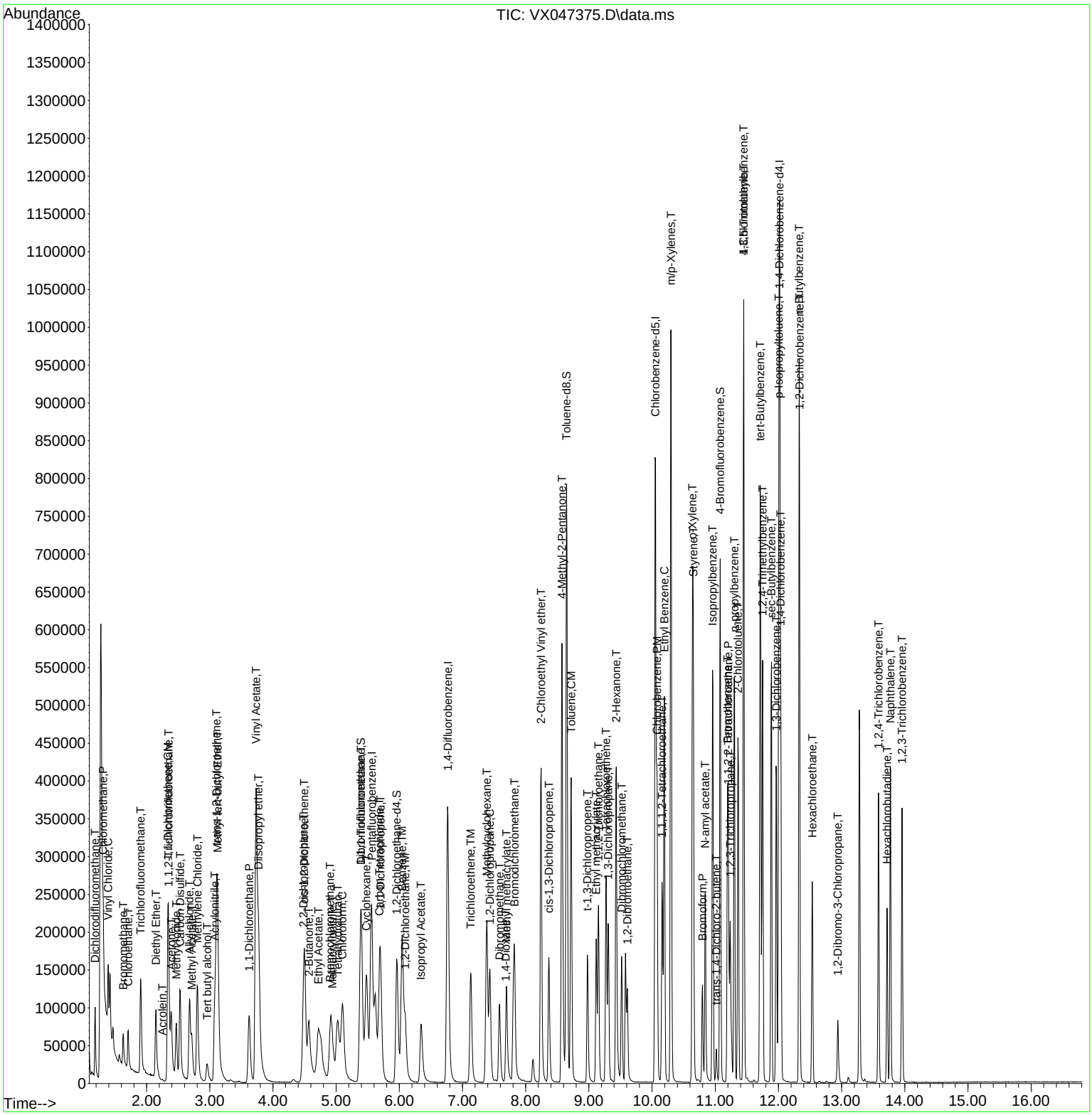
(#) = qualifier out of range (m) = manual integration (+) = signals summed

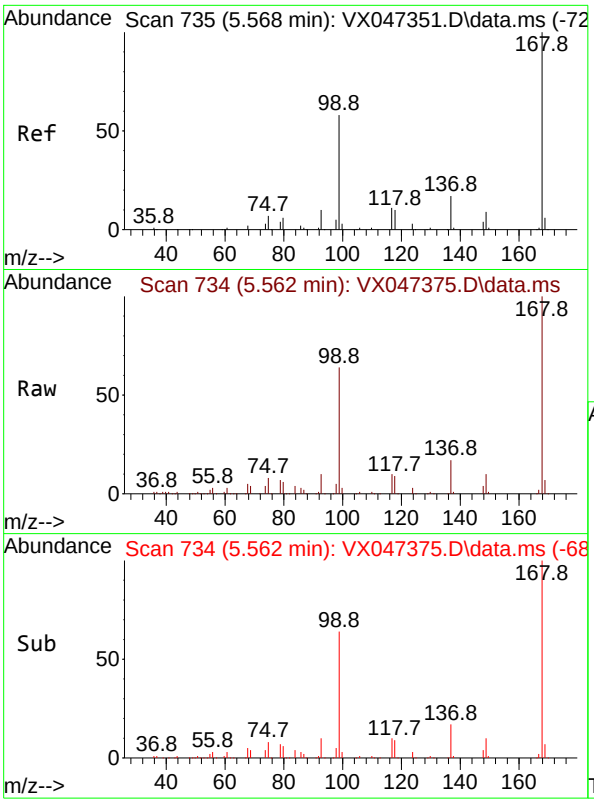
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047375.D
Acq On : 18 Aug 2025 12:44
Operator : JC/MD
Sample : VX0818WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Quant Time: Aug 19 01:39:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



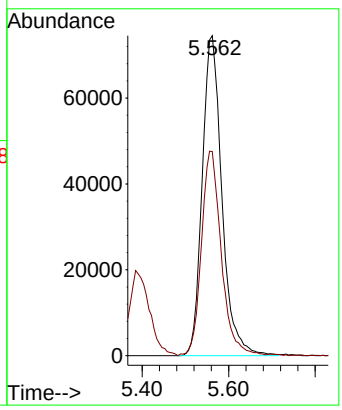


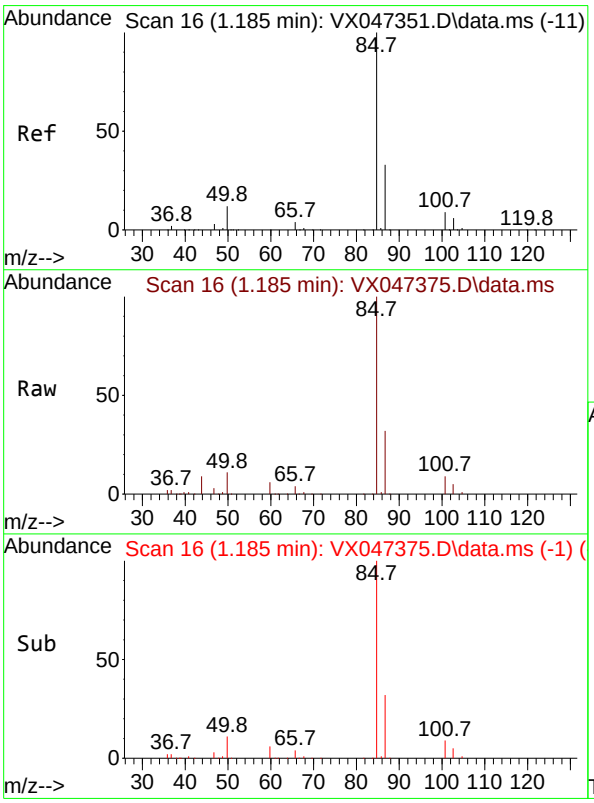
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:168 Resp: 235521

Ion	Ratio	Lower	Upper
168	100		
99	63.8	47.9	71.9

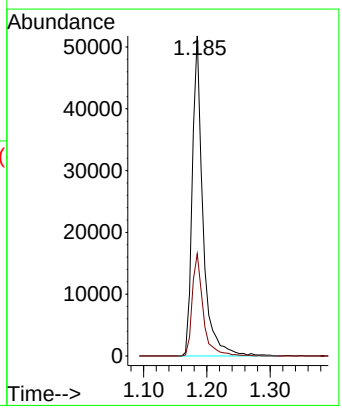


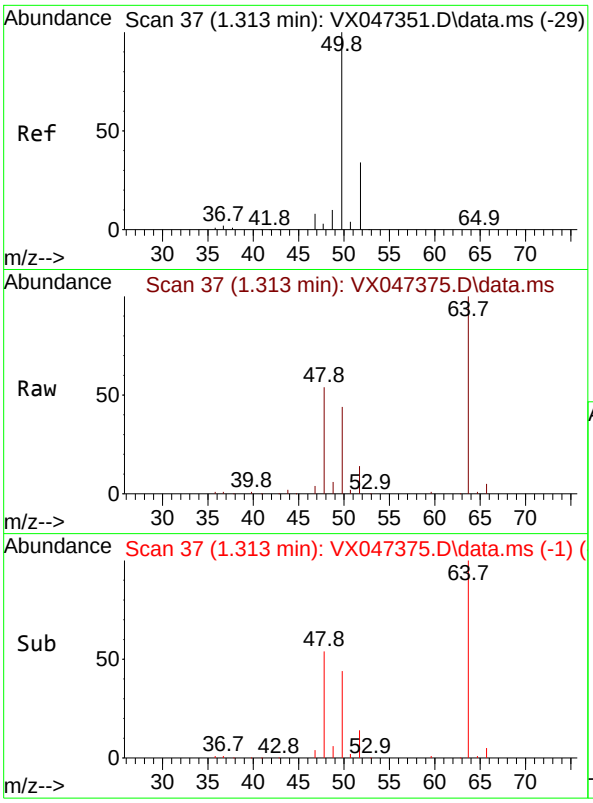


#2
Dichlorodifluoromethane
Concen: 20.149 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 85 Resp: 60494

Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.4	49.1



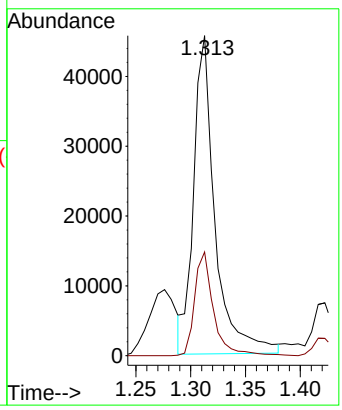


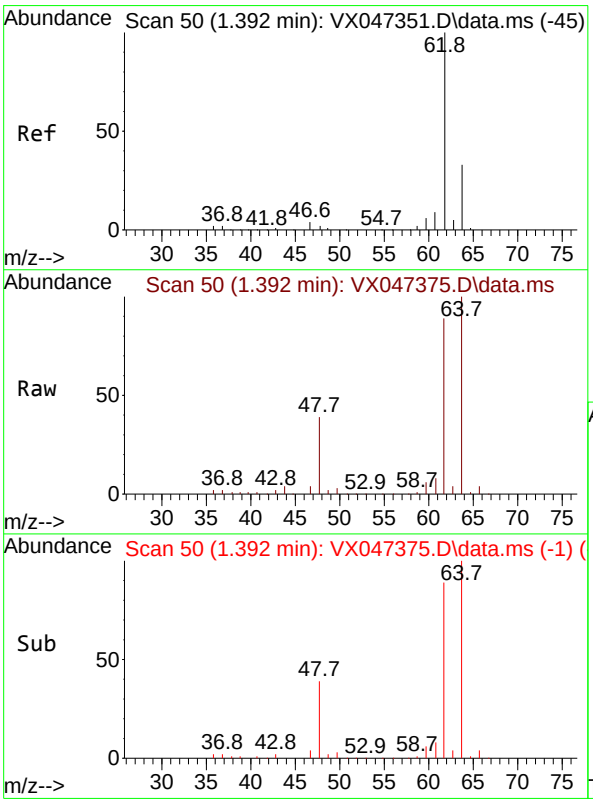
#3
Chloromethane
Concen: 22.879 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 50 Resp: 61794

Ion	Ratio	Lower	Upper
50	100		
52	33.5	27.0	40.4

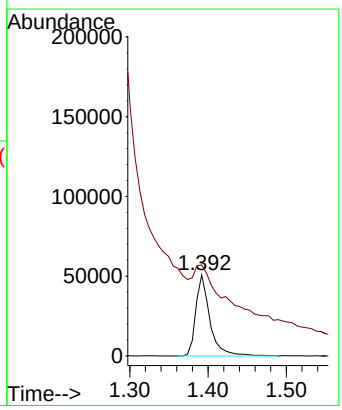


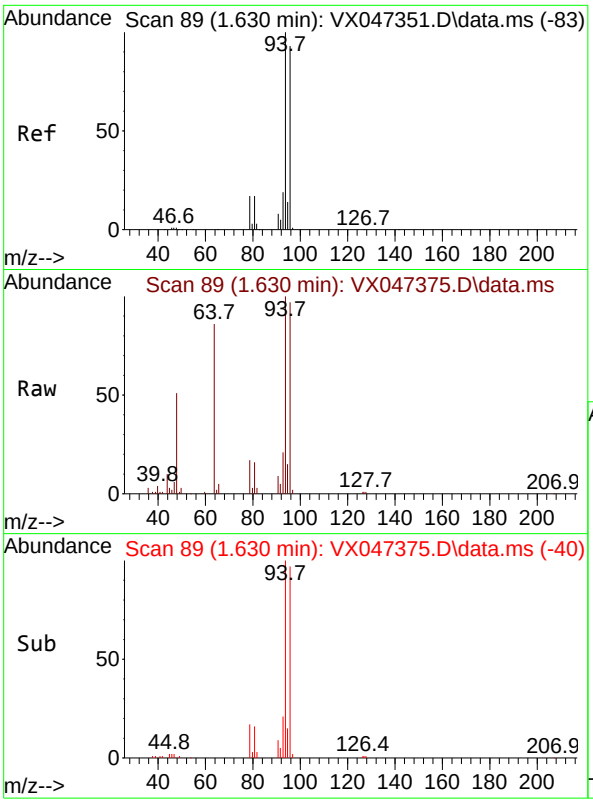


#4
Vinyl Chloride
Concen: 18.874 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 62 Resp: 63982

Ion	Ratio	Lower	Upper
62	100		
64	67.5	26.5	39.7#



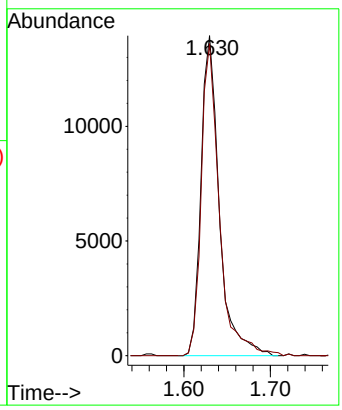


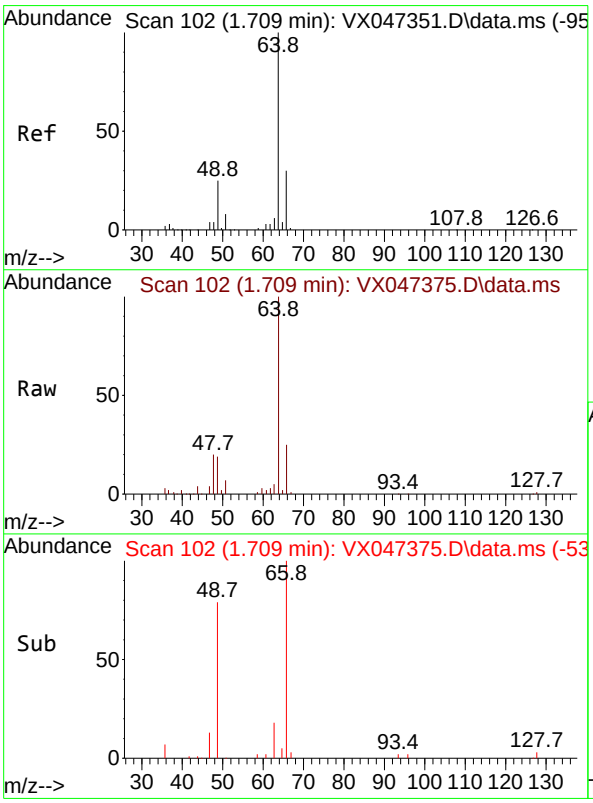
#5
Bromomethane
Concen: 14.941 ug/l
RT: 1.630 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 94 Resp: 20458

Ion	Ratio	Lower	Upper
94	100		
96	84.8	74.7	112.1

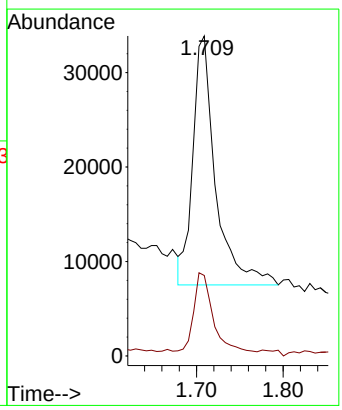


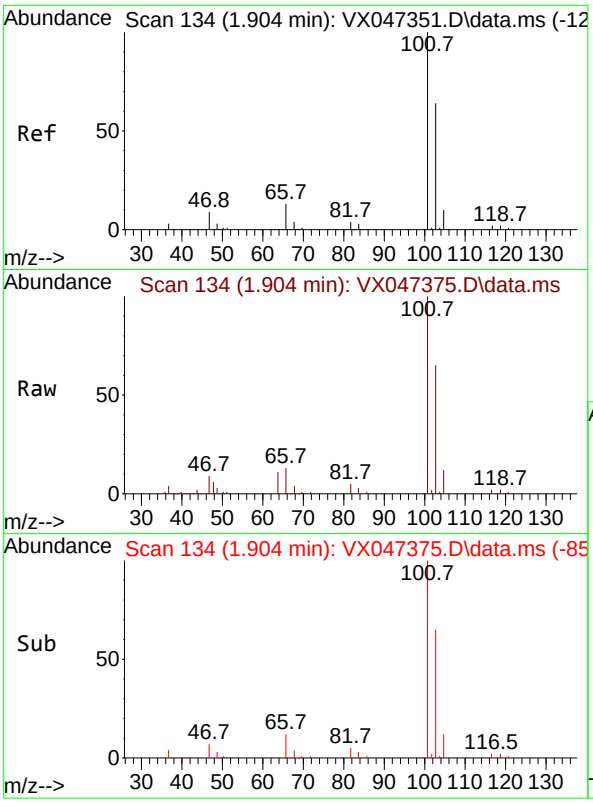


#6
Chloroethane
Concen: 23.172 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 64 Resp: 48061

Ion	Ratio	Lower	Upper
64	100		
66	30.3	24.4	36.6



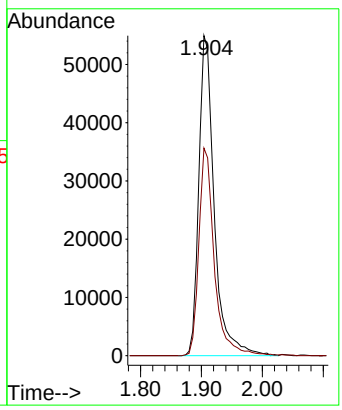


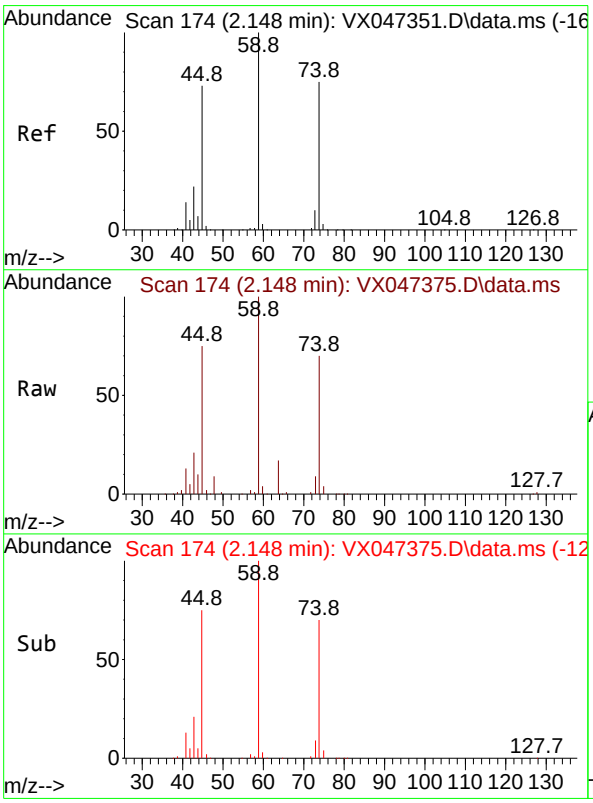
#7
Trichlorofluoromethane
Concen: 19.287 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:101 Resp: 96712

Ion	Ratio	Lower	Upper
101	100		
103	64.8	50.9	76.3

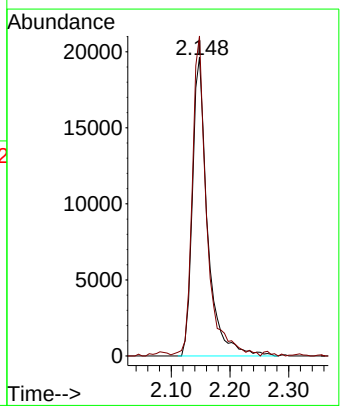


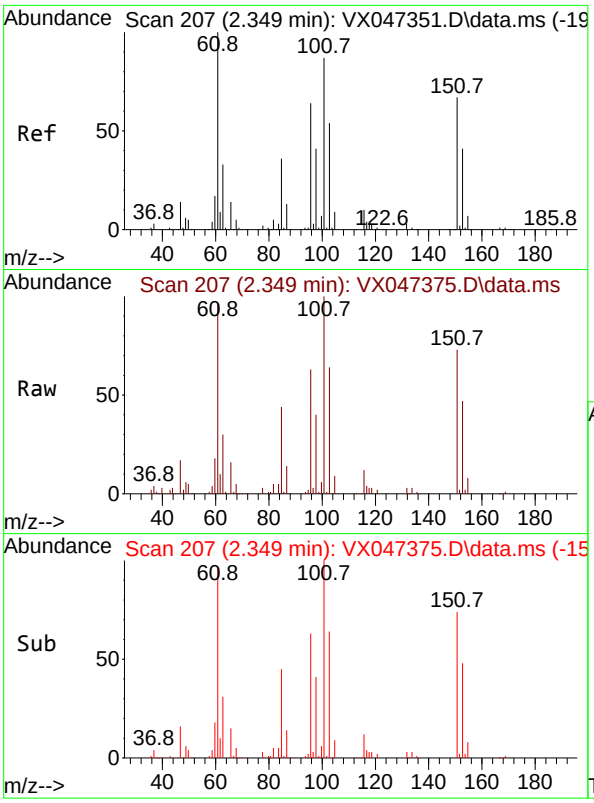


#8
Diethyl Ether
Concen: 19.894 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 74 Resp: 35126

Ion	Ratio	Lower	Upper
74	100		
45	103.1	51.3	154.0



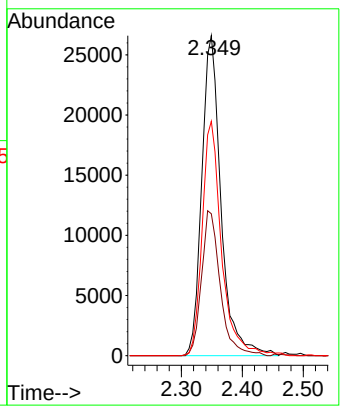


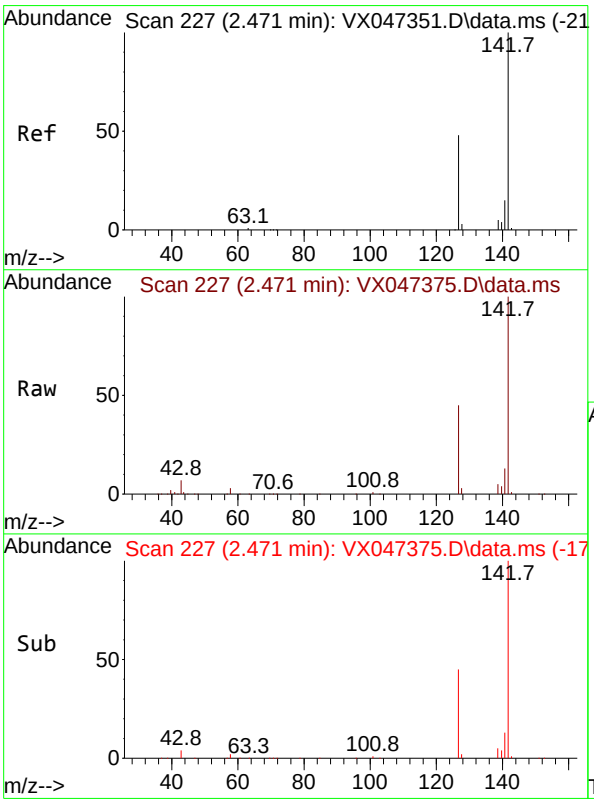
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.088 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:101 Resp: 58430

Ion	Ratio	Lower	Upper
101	100		
85	43.9	34.3	51.5
151	73.8	59.2	88.8

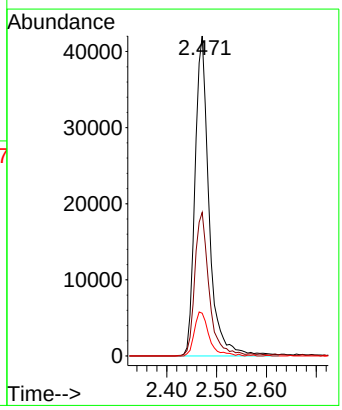


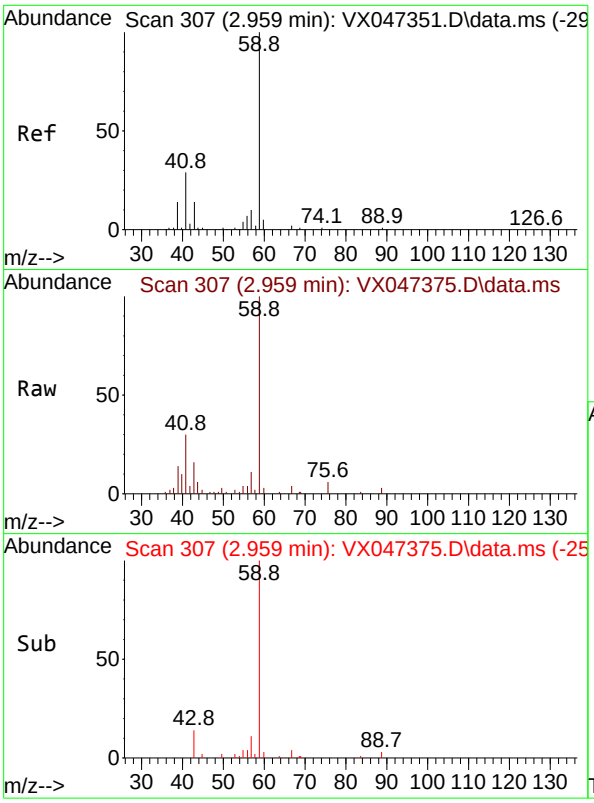


#10
Methyl Iodide
Concen: 16.556 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:142 Resp: 82525

Ion	Ratio	Lower	Upper
142	100		
127	45.7	36.1	54.1
141	14.4	11.1	16.7



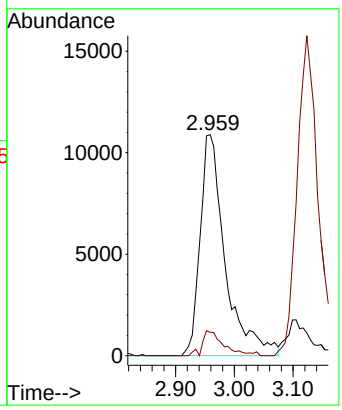


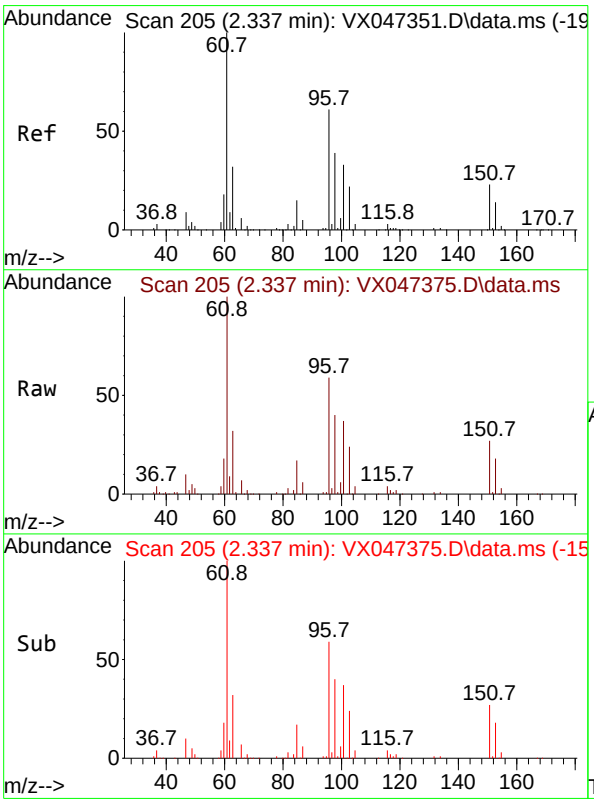
#11
Tert butyl alcohol
Concen: 112.854 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 59 Resp: 32361

Ion	Ratio	Lower	Upper
59	100		
57	9.2	8.3	12.5

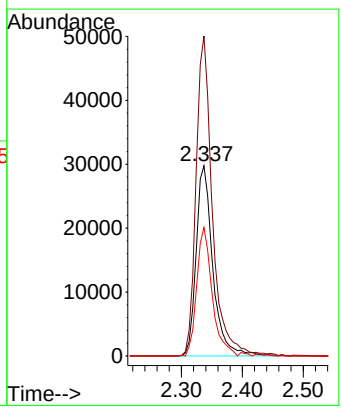


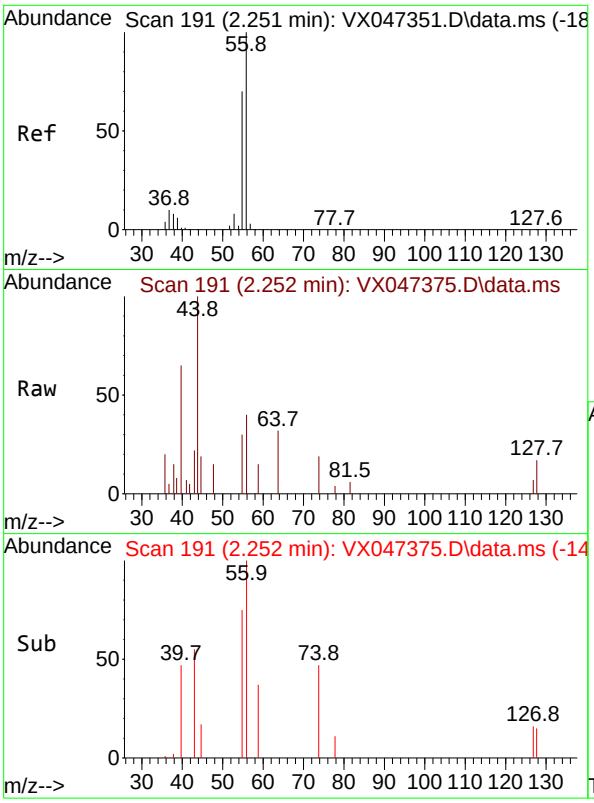


#12
1,1-Dichloroethene
Concen: 19.134 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 96 Resp: 56741

Ion	Ratio	Lower	Upper
96	100		
61	168.2	132.2	198.2
98	67.5	51.2	76.8



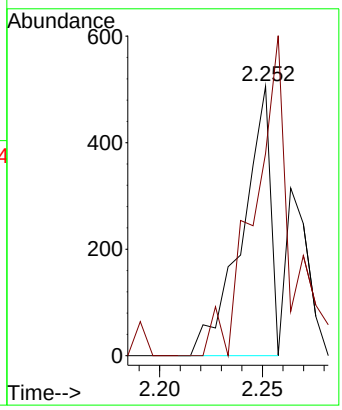


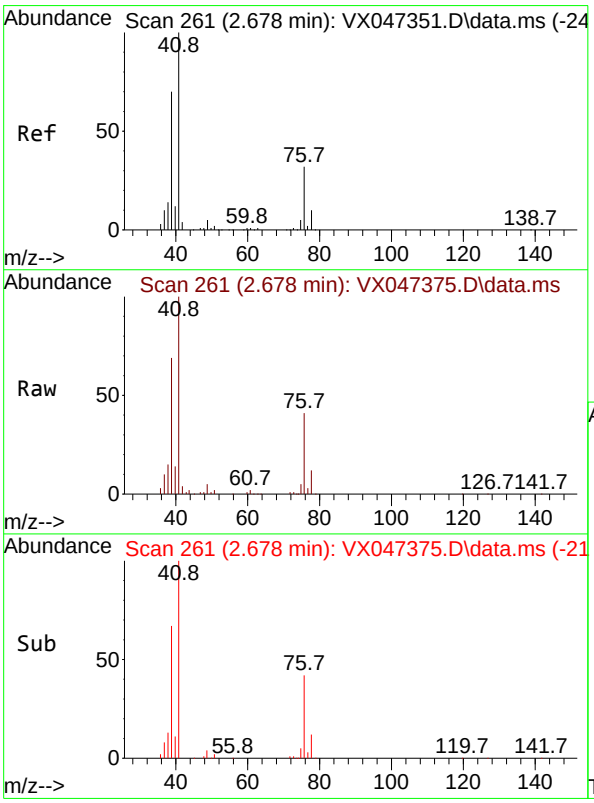
#13
Acrolein
Concen: 0.803 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 56 Resp: 486

Ion	Ratio	Lower	Upper
56	100		
55	150.2	55.5	83.3#

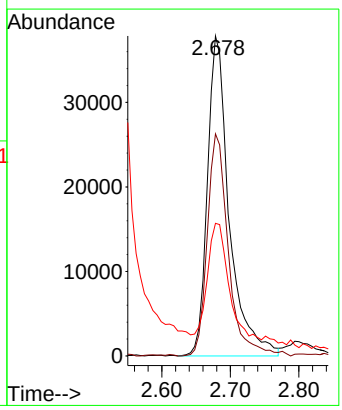


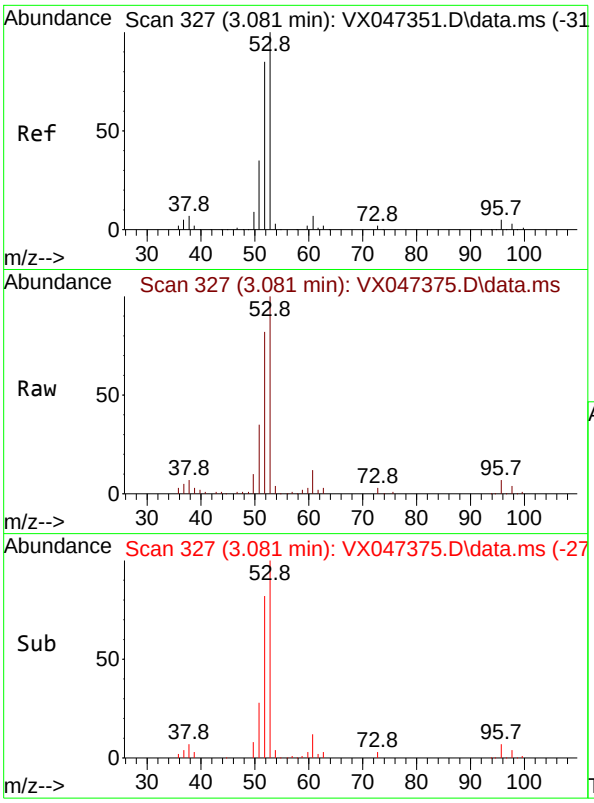


#14
Allyl chloride
Concen: 16.291 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 41 Resp: 83905

Ion	Ratio	Lower	Upper
41	100		
39	67.0	54.6	81.8
76	37.8	27.6	41.4



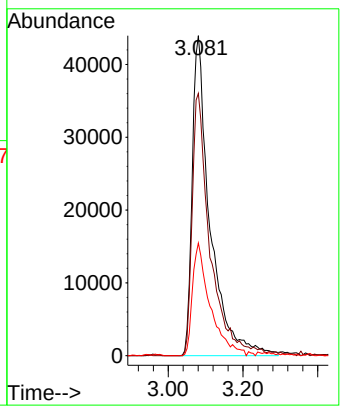


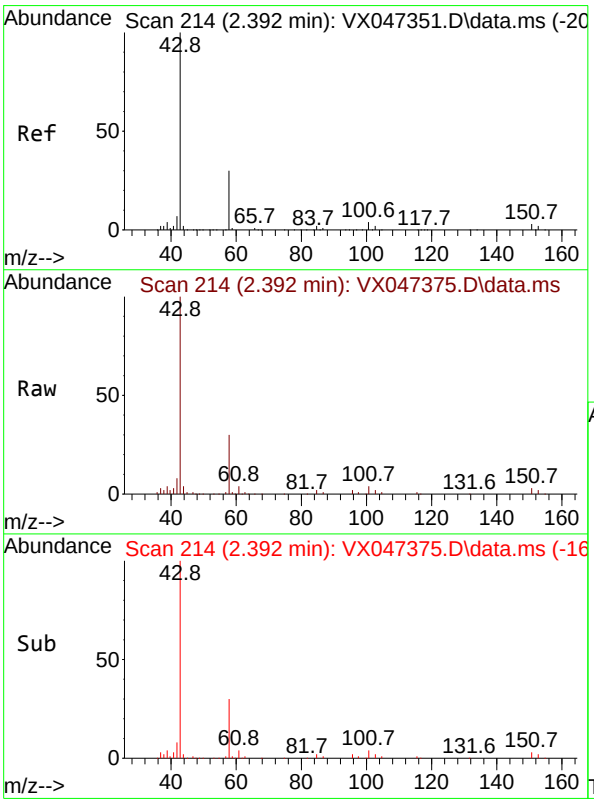
#15
Acrylonitrile
Concen: 104.929 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 53 Resp: 145392

Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.8	98.6
51	34.9	28.2	42.2

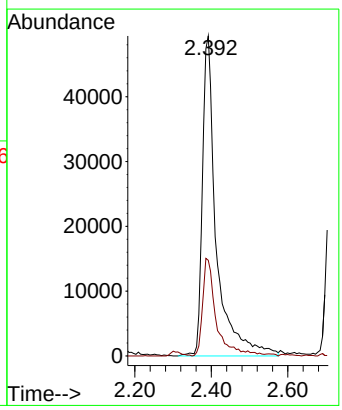


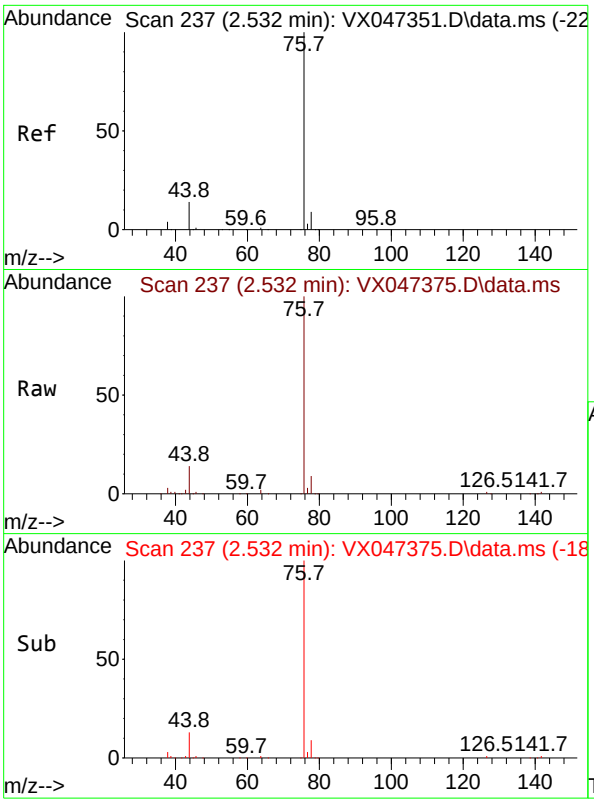


#16
Acetone
Concen: 101.012 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 43 Resp: 125152

Ion	Ratio	Lower	Upper
43	100		
58	30.3	24.8	37.2



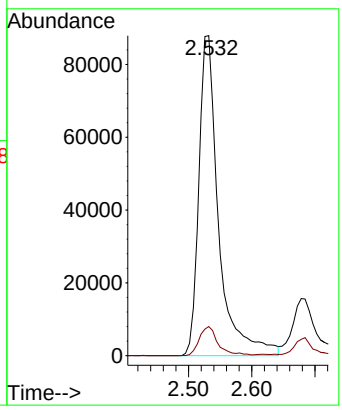


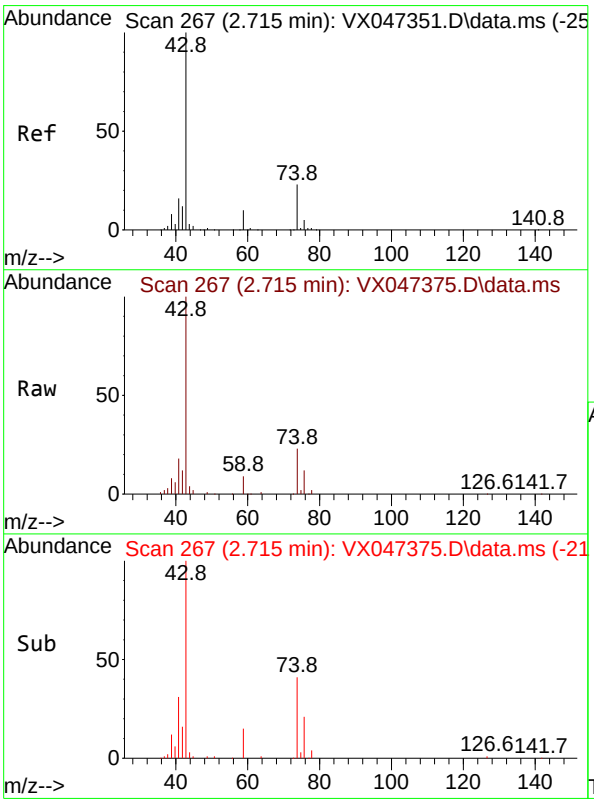
#17
Carbon Disulfide
Concen: 21.448 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 76 Resp: 191928

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

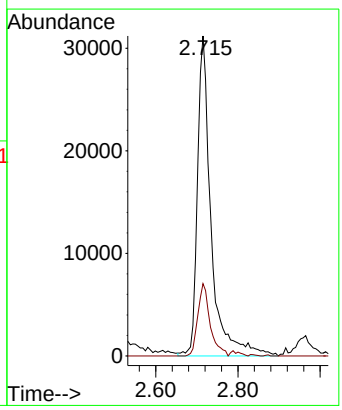


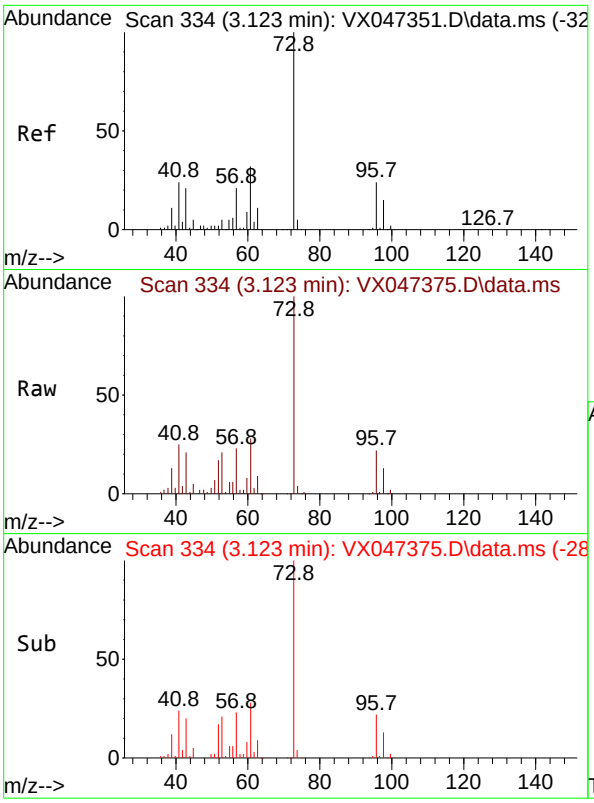


#18
Methyl Acetate
Concen: 22.433 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 43 Resp: 72026

Ion	Ratio	Lower	Upper
43	100		
74	20.3	18.4	27.6



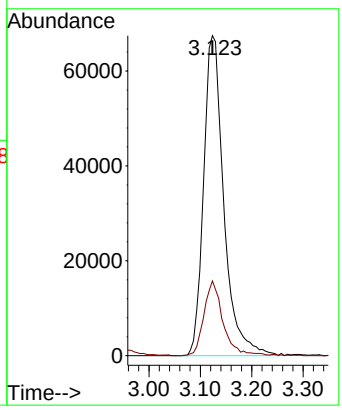


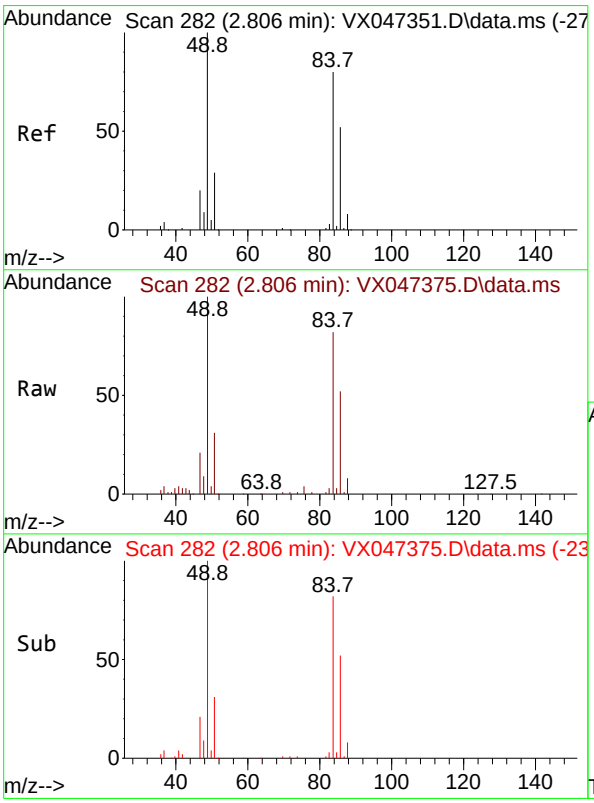
#19
Methyl tert-butyl Ether
Concen: 20.443 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 73 Resp: 184426

Ion	Ratio	Lower	Upper
73	100		
57	23.4	17.0	25.6

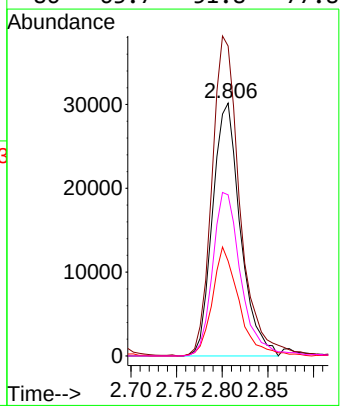


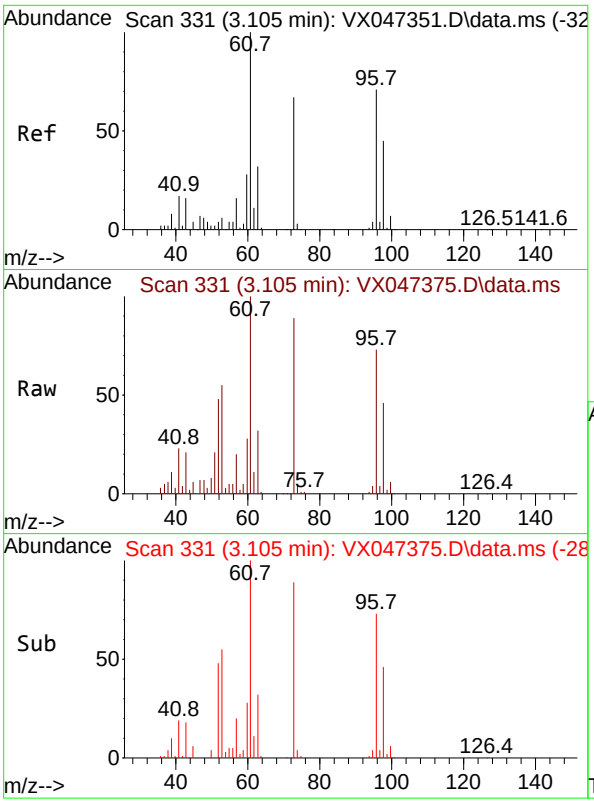


#20
Methylene Chloride
Concen: 19.409 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 84 Resp: 63679

Ion	Ratio	Lower	Upper
84	100		
49	122.6	100.1	150.1
51	37.5	29.5	44.3
86	63.7	51.8	77.8



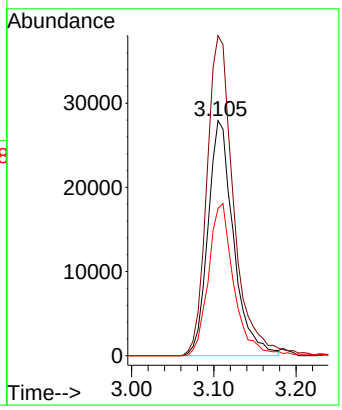


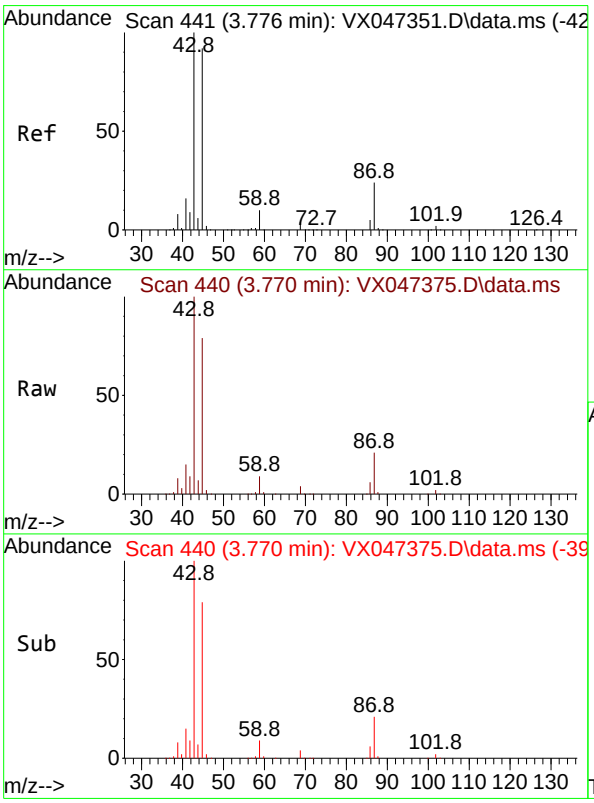
#21
trans-1,2-Dichloroethene
Concen: 19.143 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 96 Resp: 60251

Ion	Ratio	Lower	Upper
96	100		
61	136.2	112.6	169.0
98	62.7	50.9	76.3

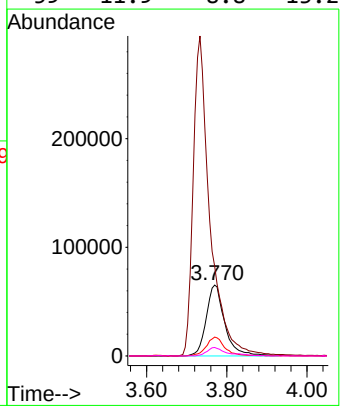


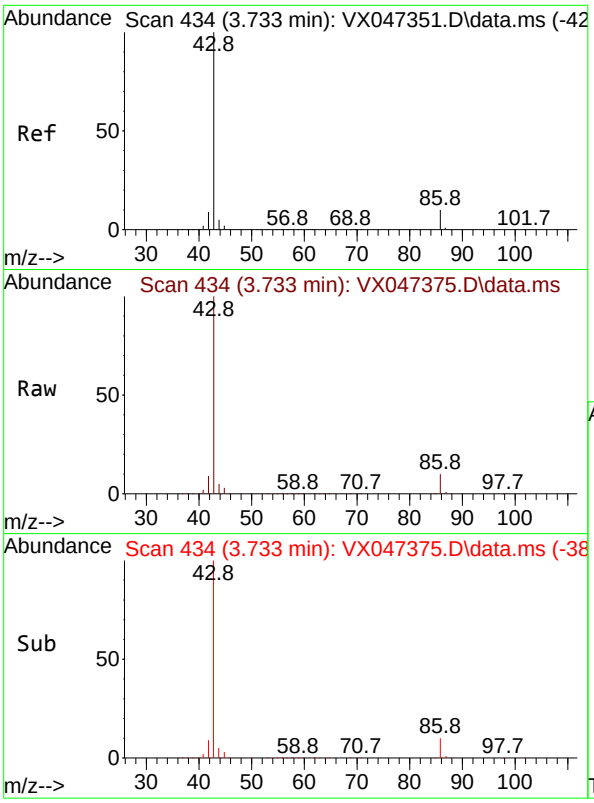


#22
Diisopropyl ether
Concen: 20.614 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 45 Resp: 209869

Ion	Ratio	Lower	Upper
45	100		
43	126.5	86.8	130.2
87	28.1	20.4	30.6
59	11.9	8.8	13.2



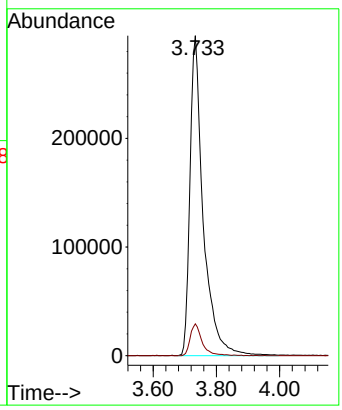


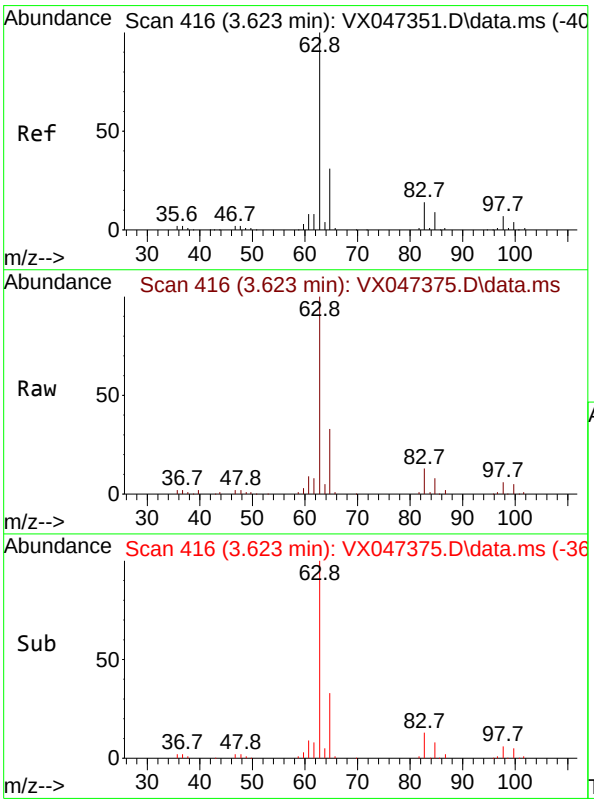
#23
Vinyl Acetate
Concen: 103.122 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 43 Resp: 860528

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.9	11.9

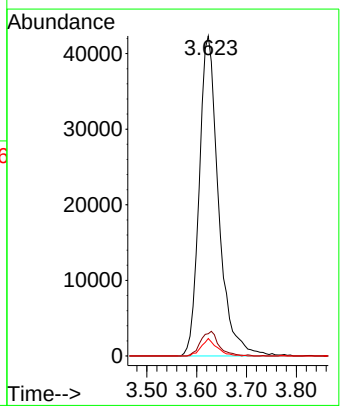


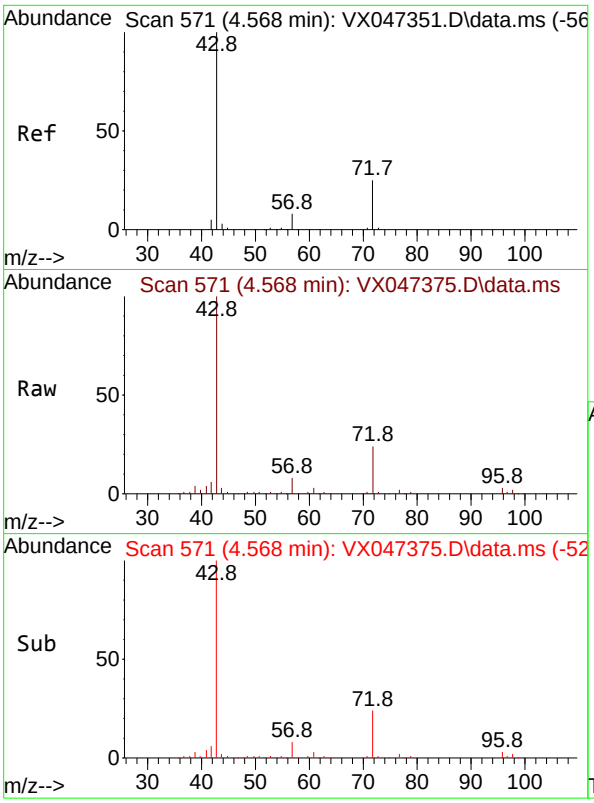


#24
1,1-Dichloroethane
Concen: 19.778 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 63 Resp: 113813

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.9
100	5.5	2.1	6.3



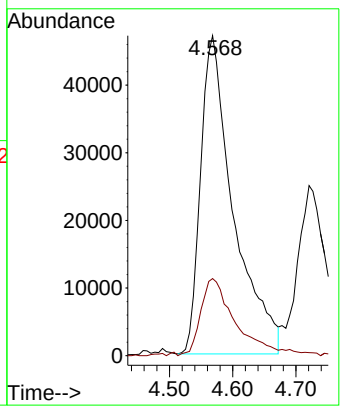


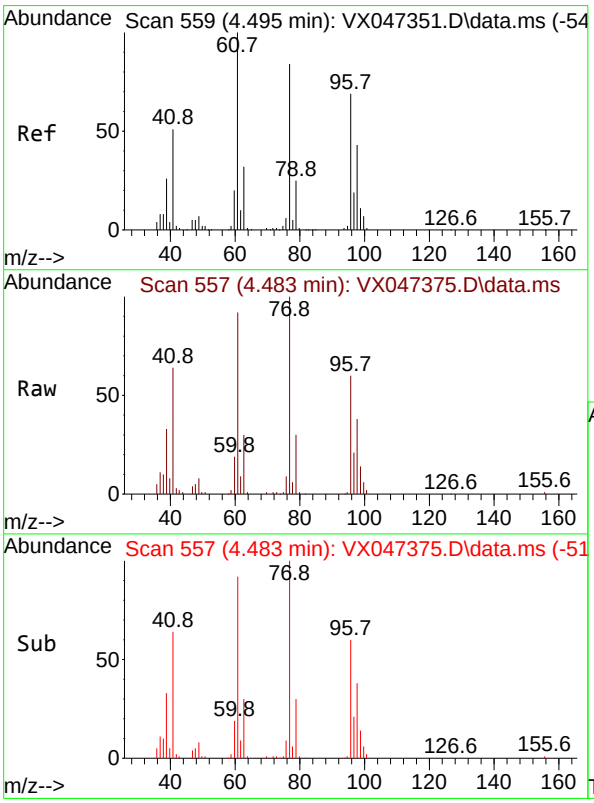
#25
2-Butanone
Concen: 104.434 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 43 Resp: 169460

Ion	Ratio	Lower	Upper
43	100		
72	23.3	19.8	29.8

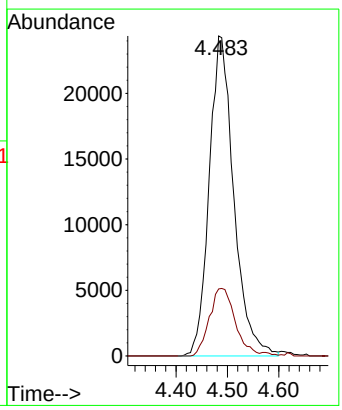


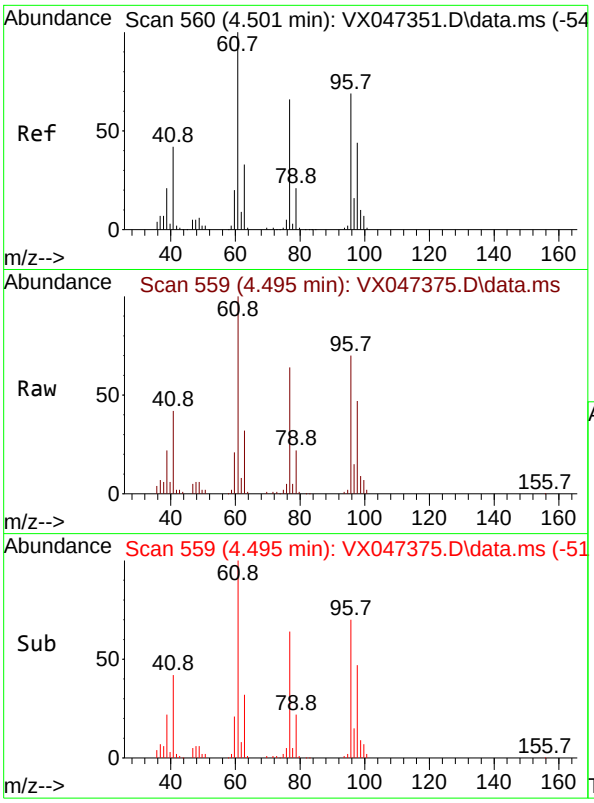


#26
2,2-Dichloropropane
Concen: 18.626 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.012 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 77 Resp: 80899

Ion	Ratio	Lower	Upper
77	100		
97	22.0	11.4	34.1



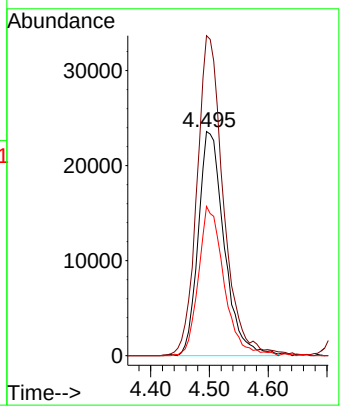


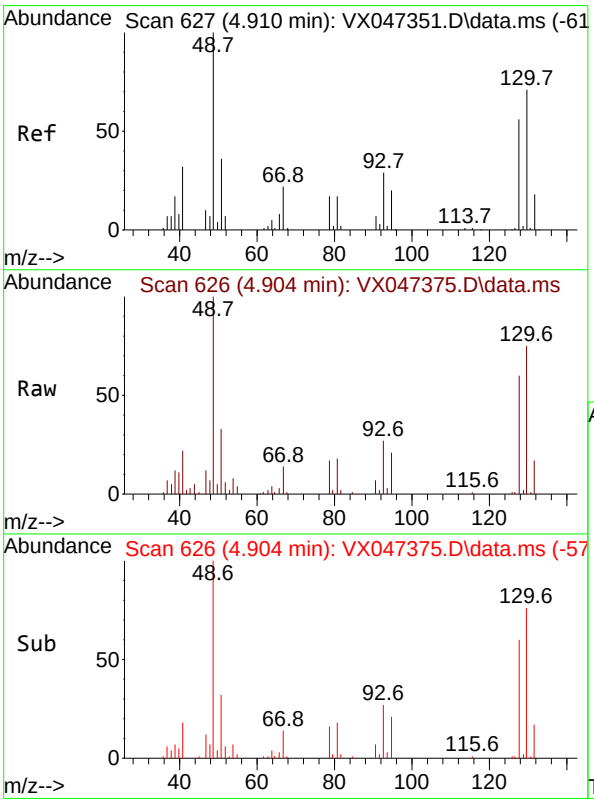
#27
cis-1,2-Dichloroethene
Concen: 19.762 ug/l
RT: 4.495 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 96 Resp: 72443

Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	296.6
98	65.4	0.0	130.4

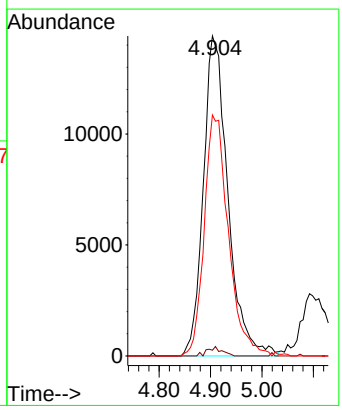


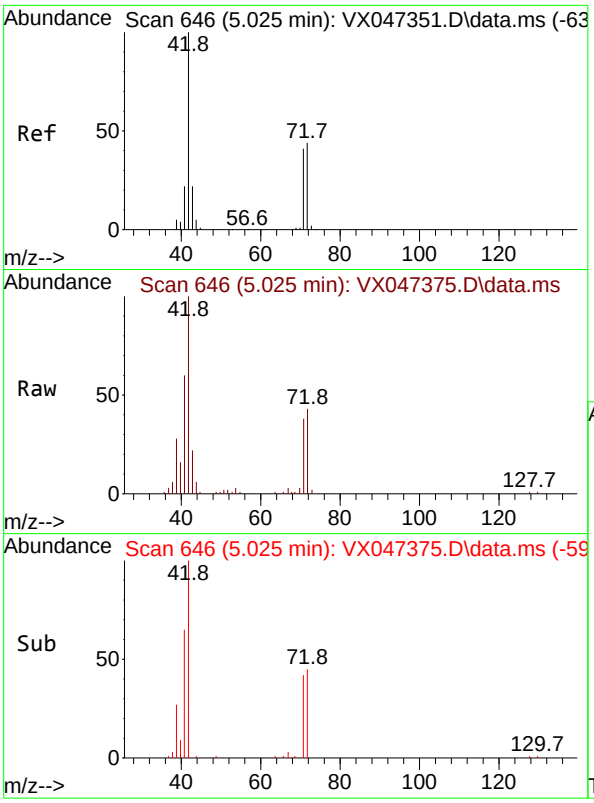


#28
Bromochloromethane
Concen: 19.976 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 49 Resp: 47835

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	4.0
130	74.0	59.8	89.6



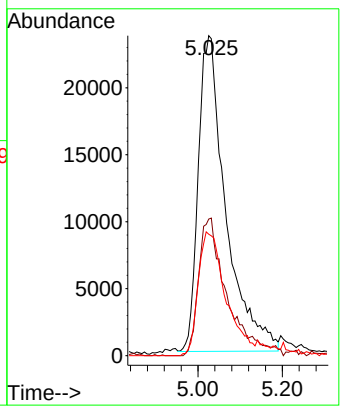


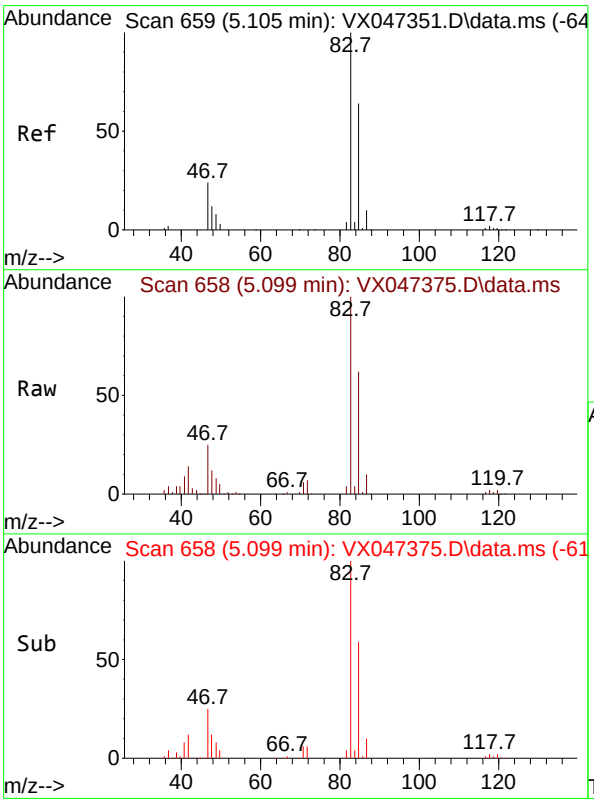
#29
Tetrahydrofuran
Concen: 102.008 ug/l
RT: 5.025 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 42 Resp: 106985

Ion	Ratio	Lower	Upper
42	100		
72	44.8	34.6	51.8
71	39.3	32.6	49.0

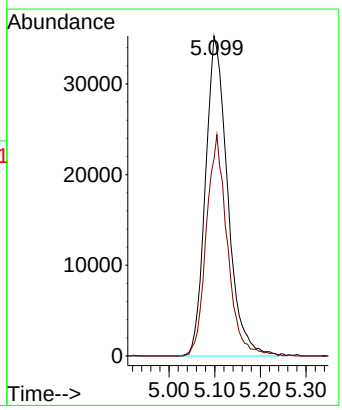


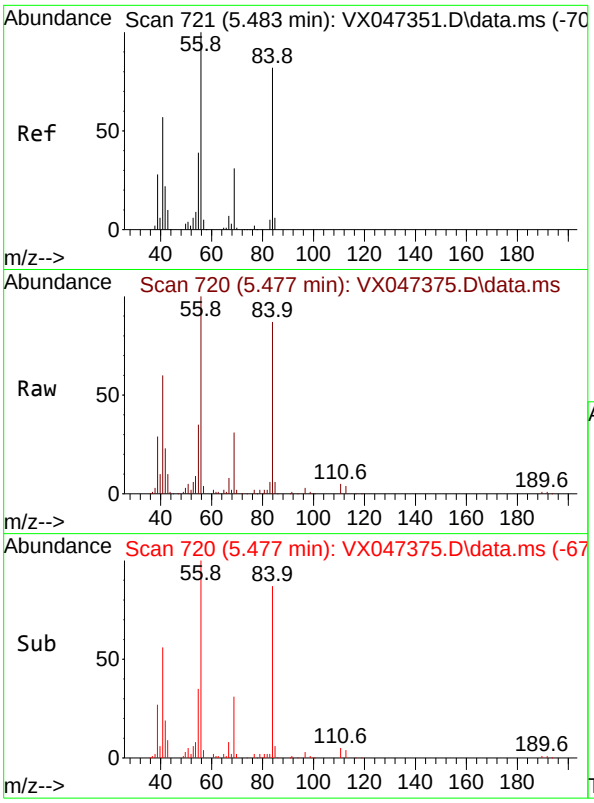


#30
Chloroform
Concen: 20.217 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 83 Resp: 118735

Ion	Ratio	Lower	Upper
83	100		
85	61.7	51.2	76.8



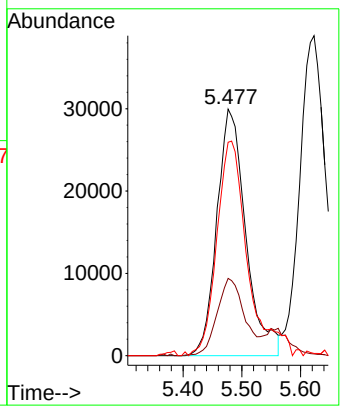


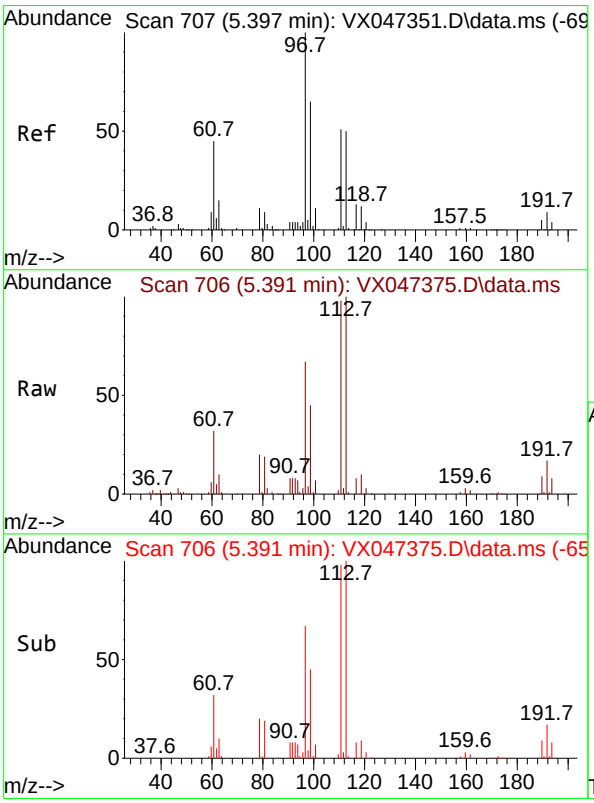
#31
Cyclohexane
Concen: 19.325 ug/l
RT: 5.477 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 56 Resp: 102512

Ion	Ratio	Lower	Upper
56	100		
69	31.4	24.3	36.5
84	86.6	65.3	97.9

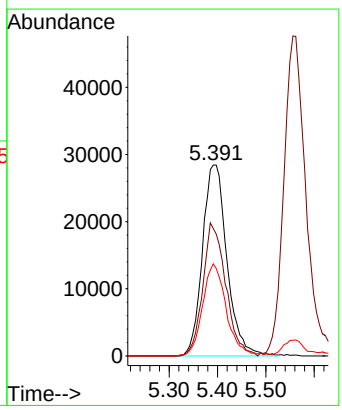


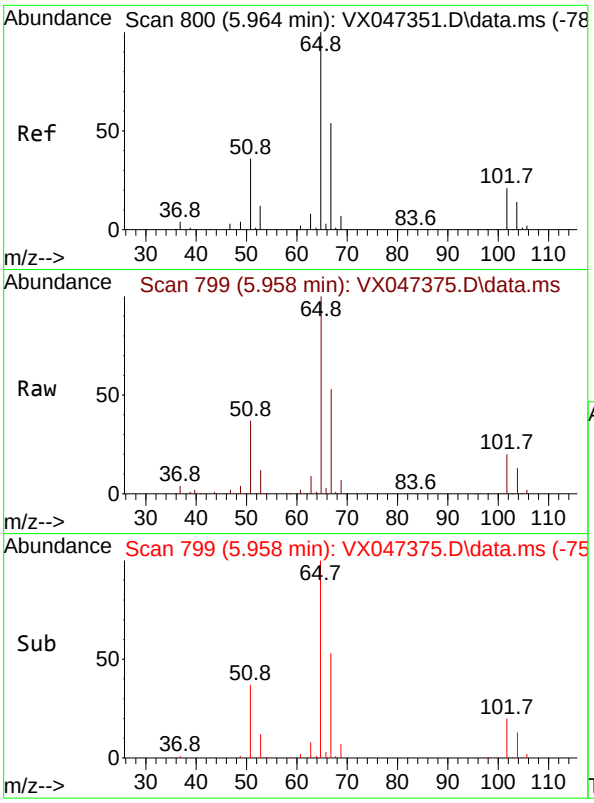


#32
1,1,1-Trichloroethane
Concen: 19.811 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 97 Resp: 100146

Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.4	77.0
61	46.9	35.7	53.5



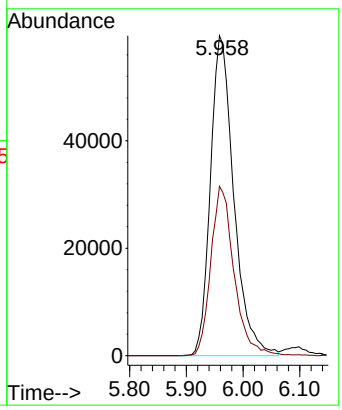


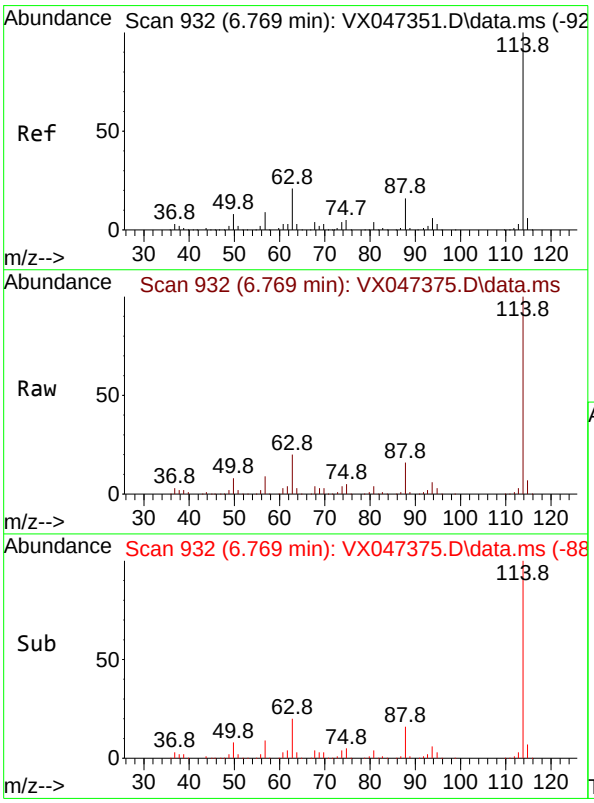
#33
1,2-Dichloroethane-d4
Concen: 51.750 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 65 Resp: 170578

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	106.0

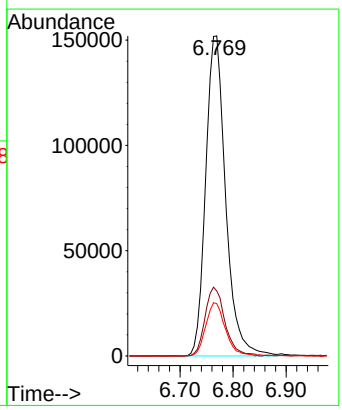


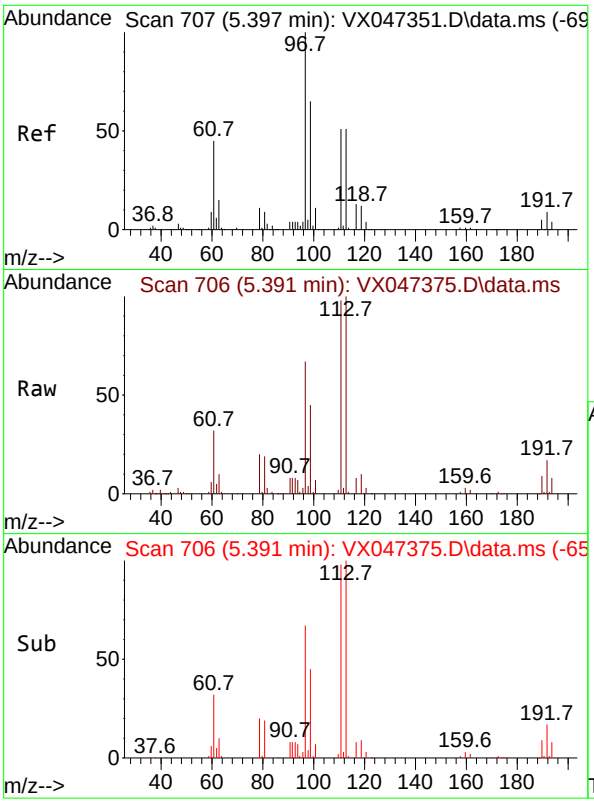


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:114 Resp: 398008

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.4
88	16.4	0.0	33.0



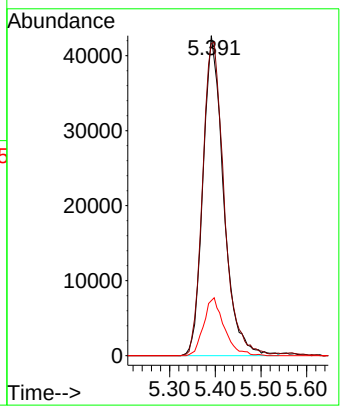


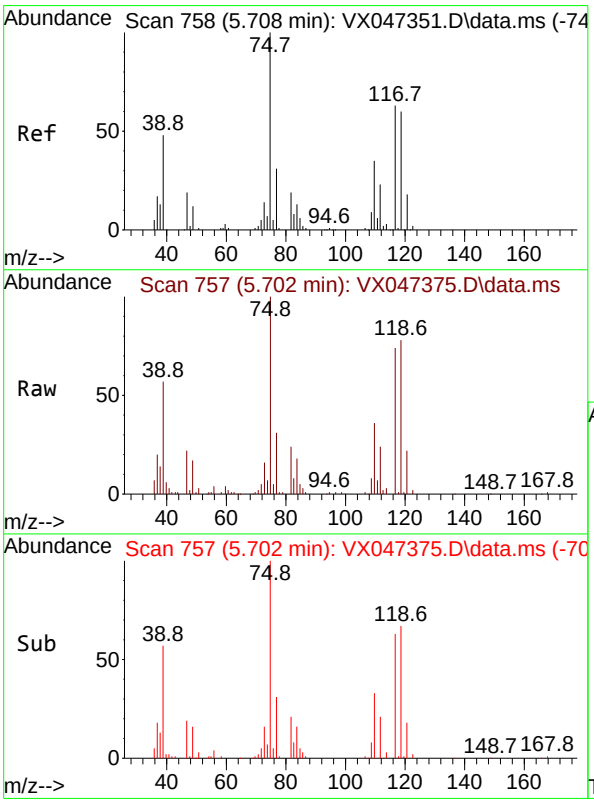
#35
Dibromofluoromethane
Concen: 51.666 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:113 Resp: 133458

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.4	122.2
192	18.1	14.1	21.1

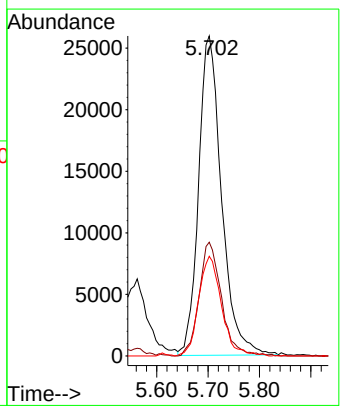


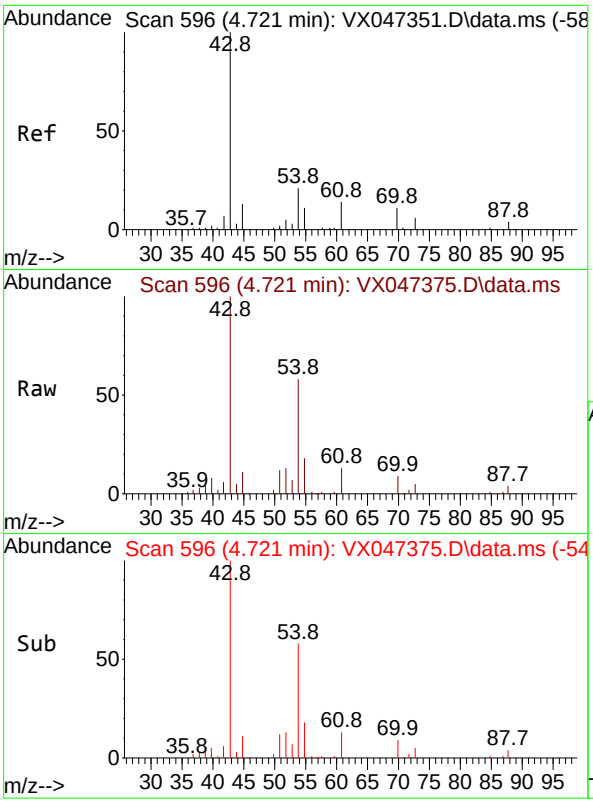


#36
1,1-Dichloropropene
Concen: 19.797 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 75 Resp: 80725

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.4	52.2
77	31.0	24.4	36.6



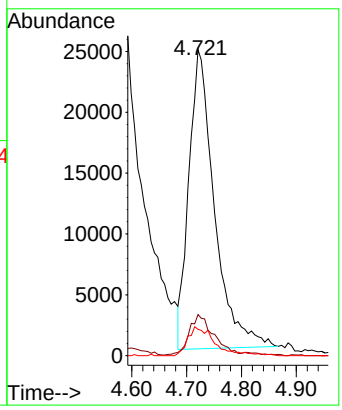


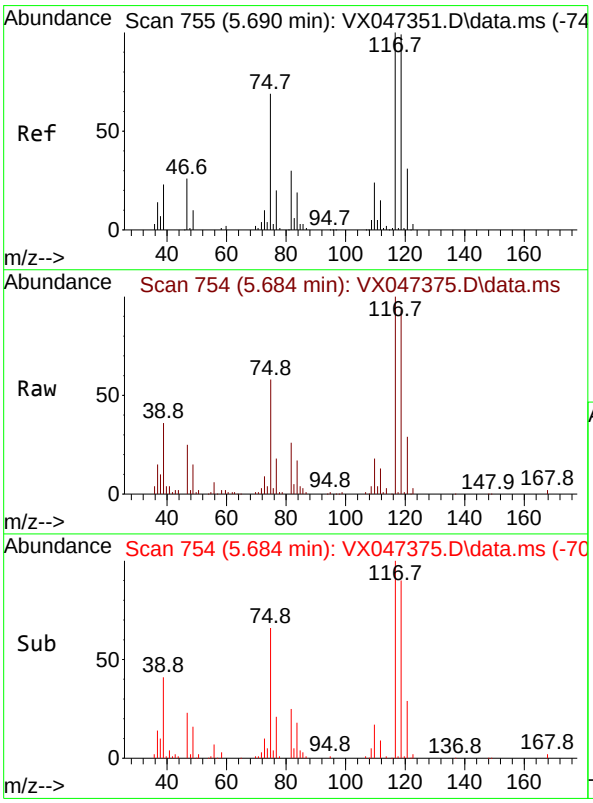
#37
Ethyl Acetate
Concen: 18.776 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 43 Resp: 79484

Ion	Ratio	Lower	Upper
43	100		
61	12.7	9.4	14.2
70	10.3	7.0	10.6

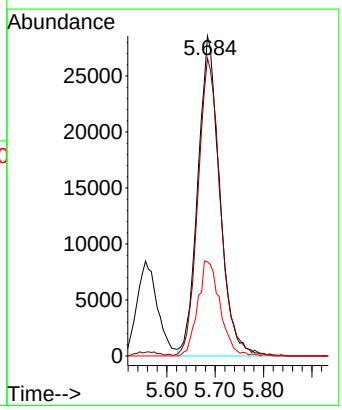


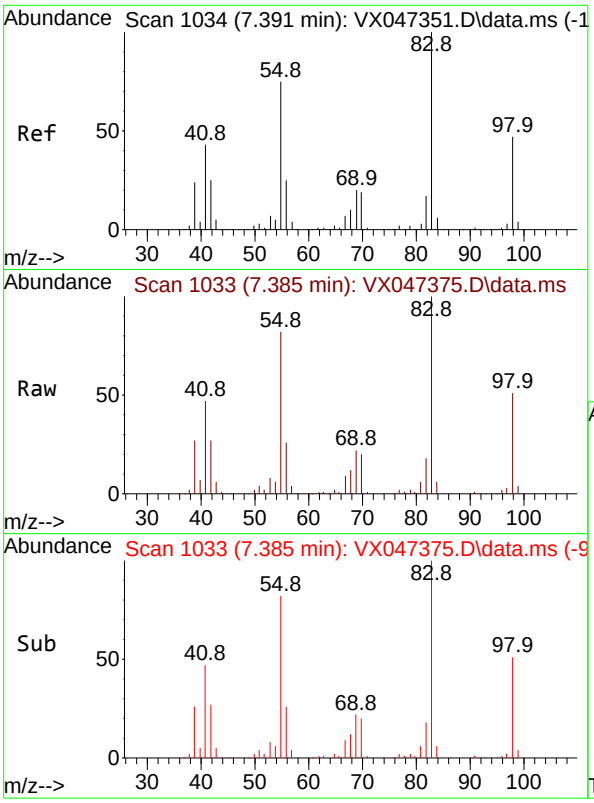


#38
Carbon Tetrachloride
Concen: 20.115 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:117 Resp: 89631

Ion	Ratio	Lower	Upper
117	100		
119	92.8	78.5	117.7
121	29.4	24.7	37.1



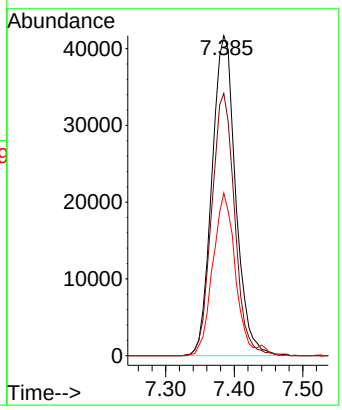


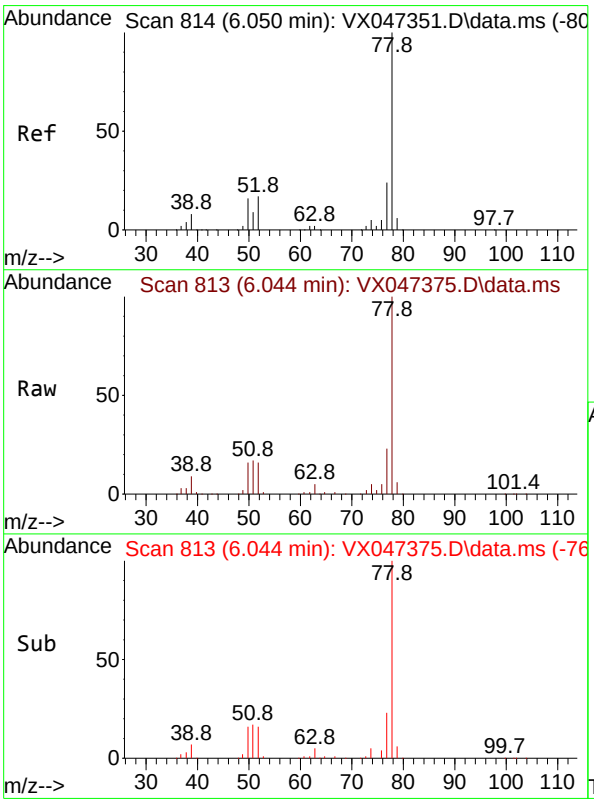
#39
Methylcyclohexane
Concen: 19.665 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 83 Resp: 100021

Ion	Ratio	Lower	Upper
83	100		
55	82.0	60.0	90.0
98	50.8	37.2	55.8

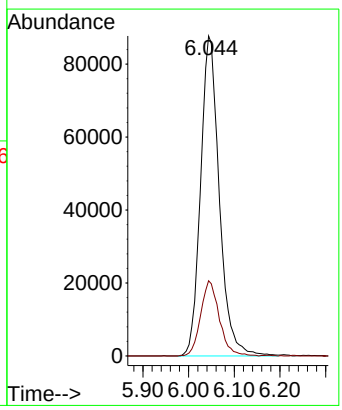


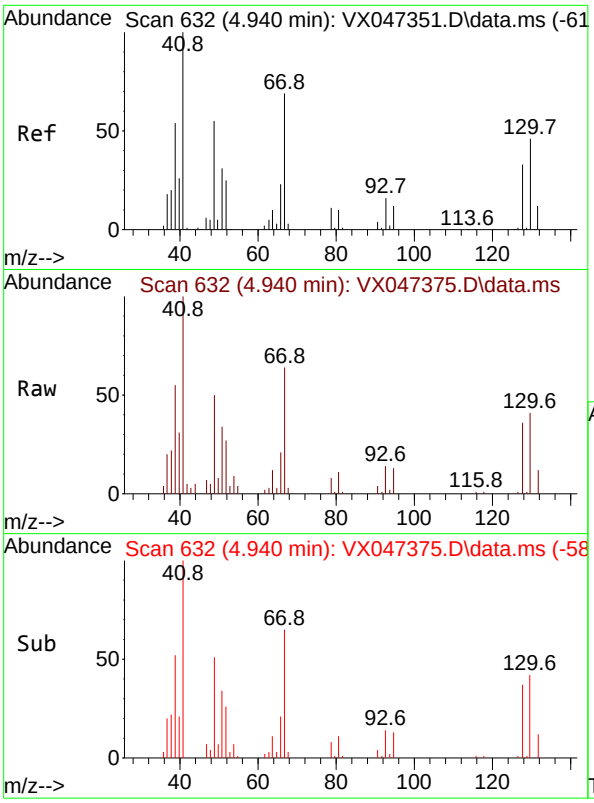


#40
Benzene
Concen: 20.455 ug/l
RT: 6.044 min Scan# 813
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 78 Resp: 249658

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4



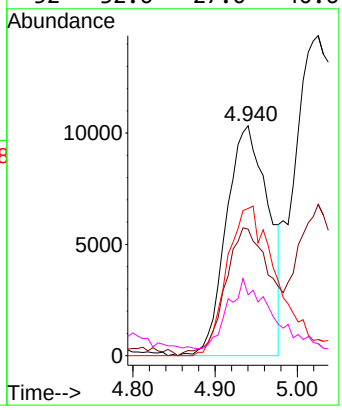


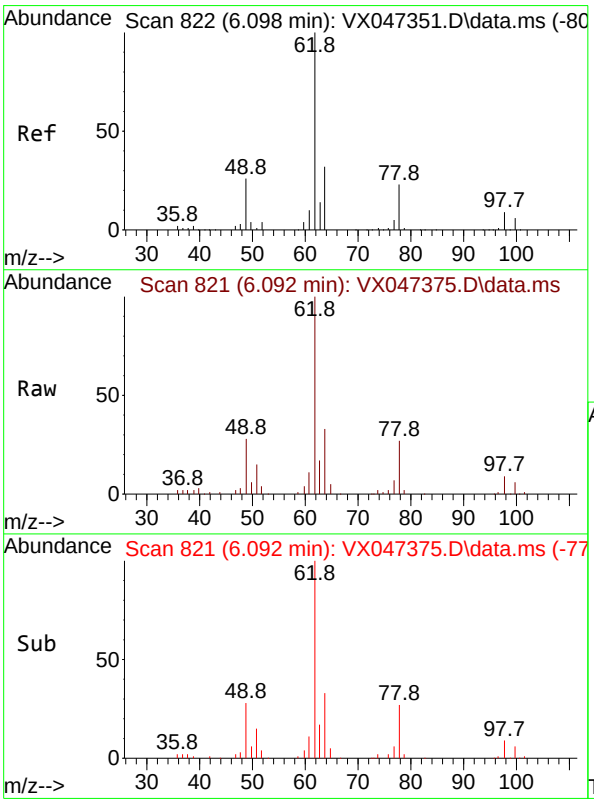
#41
Methacrylonitrile
Concen: 20.643 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 41 Resp: 36850

Ion	Ratio	Lower	Upper
41	100		
39	59.8	45.4	68.2
67	79.3	64.0	96.0
52	32.6	27.0	40.6

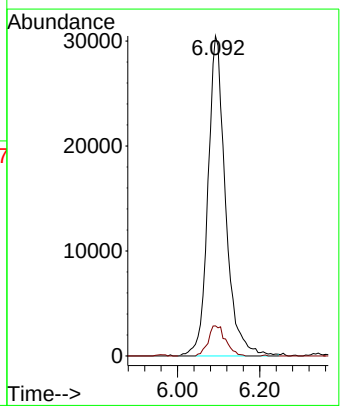


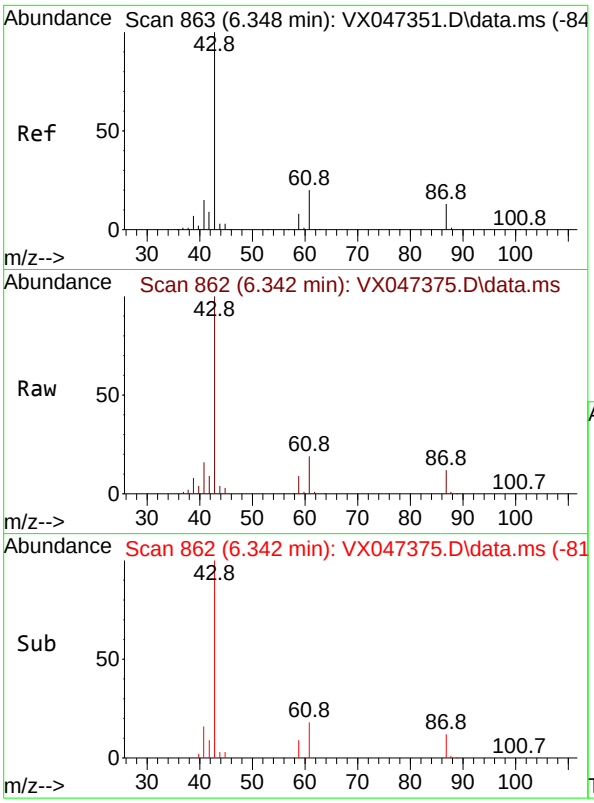


#42
1,2-Dichloroethane
Concen: 20.898 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 62 Resp: 90345

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.0



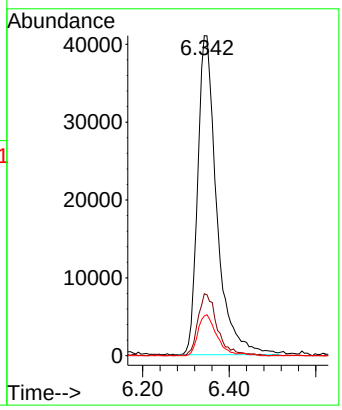


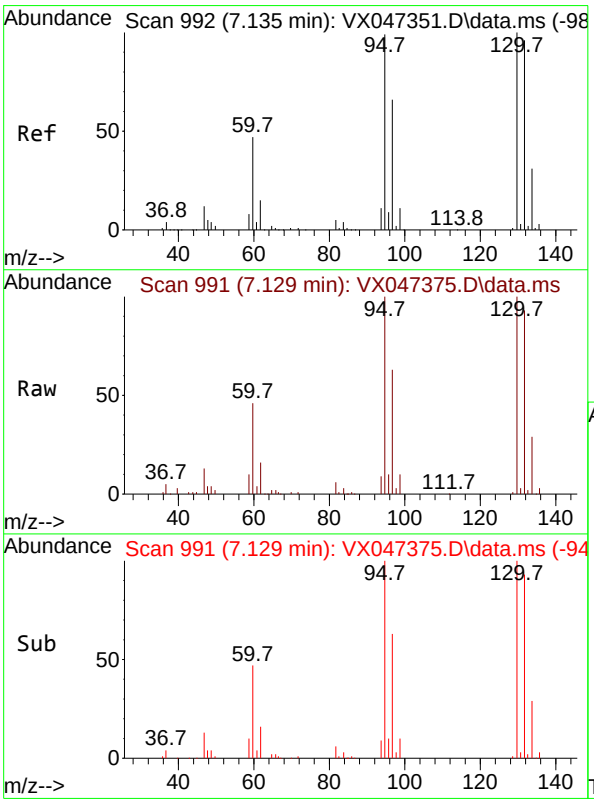
#43
Isopropyl Acetate
Concen: 20.627 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 43 Resp: 125441

Ion	Ratio	Lower	Upper
43	100		
61	19.8	15.4	23.0
87	12.5	10.2	15.4

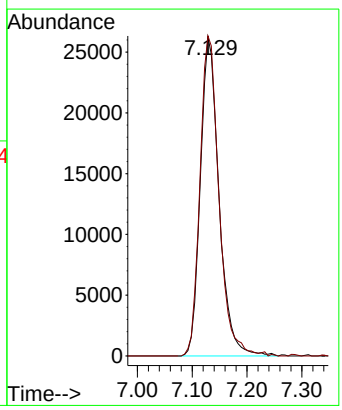


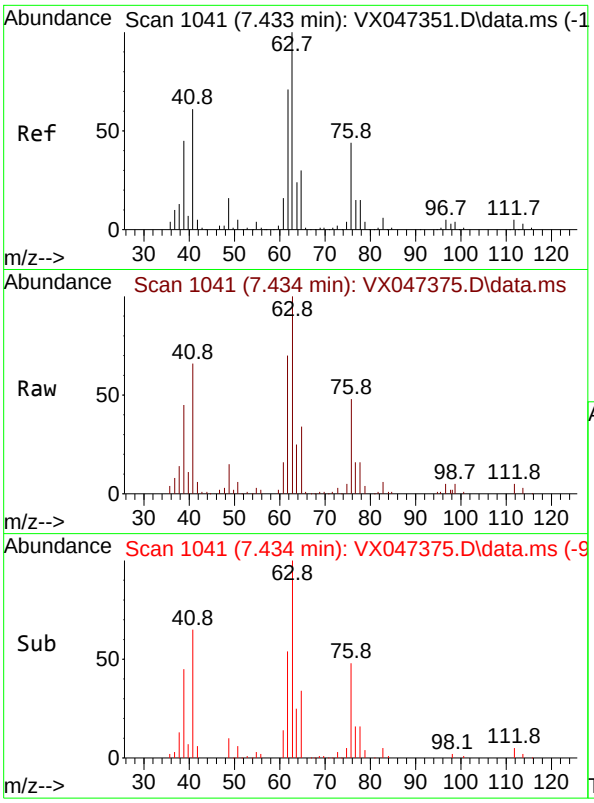


#44
Trichloroethene
Concen: 19.804 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:130 Resp: 61892

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	198.6



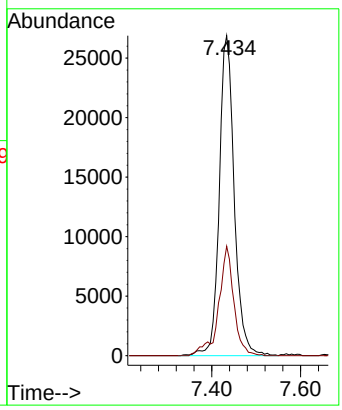


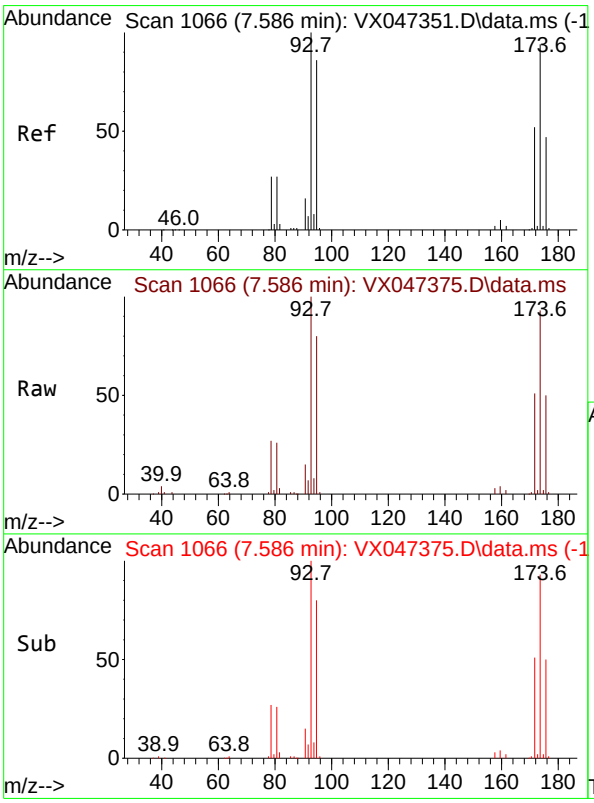
#45
1,2-Dichloropropane
Concen: 20.519 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 63 Resp: 62740

Ion	Ratio	Lower	Upper
63	100		
65	34.2	23.8	35.6

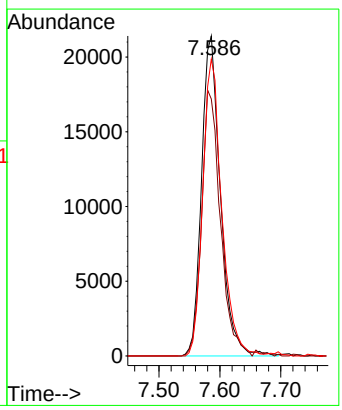


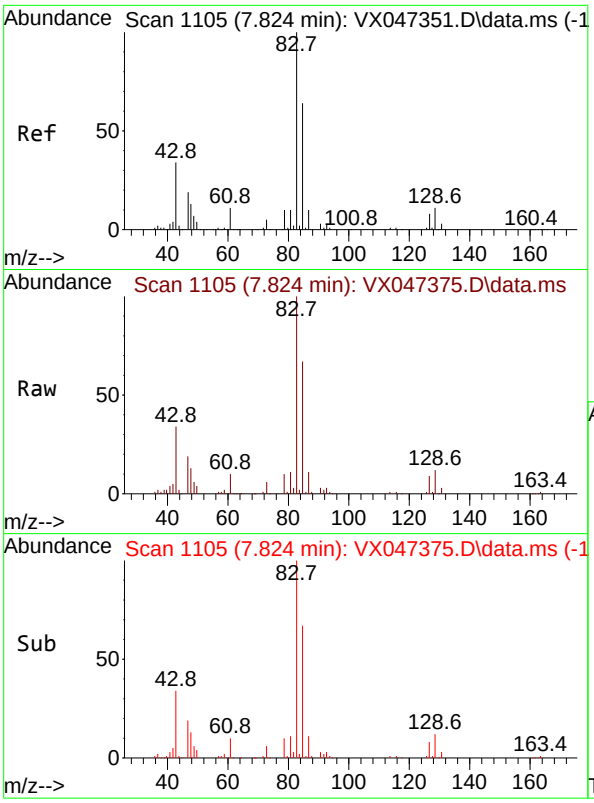


#46
Dibromomethane
Concen: 20.871 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 93 Resp: 46329

Ion	Ratio	Lower	Upper
93	100		
95	82.0	68.0	102.0
174	93.5	75.8	113.6



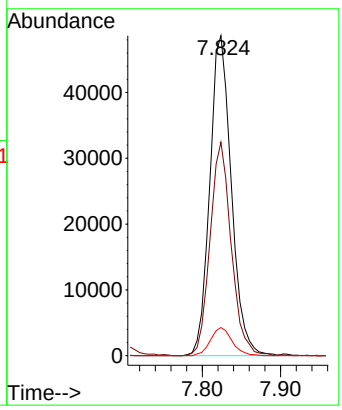


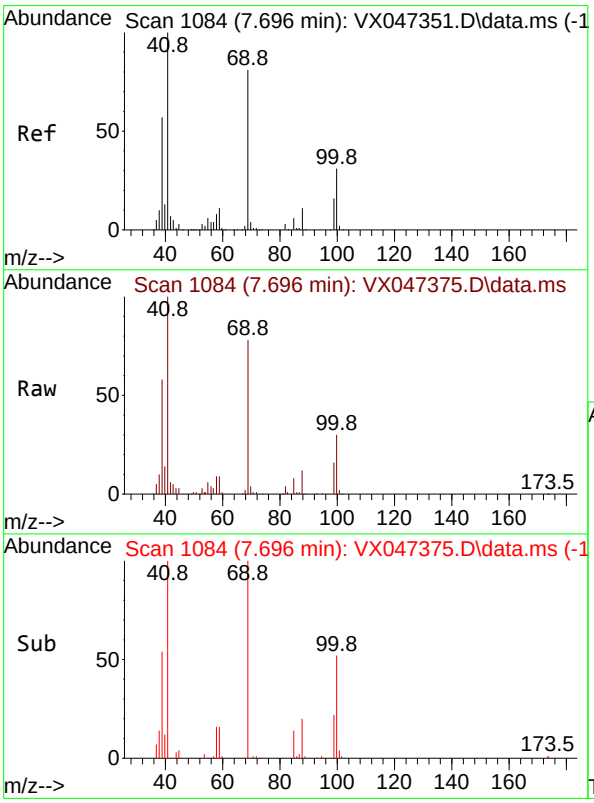
#47
Bromodichloromethane
Concen: 20.201 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 83 Resp: 92962

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.0	76.6
127	8.6	7.0	10.4

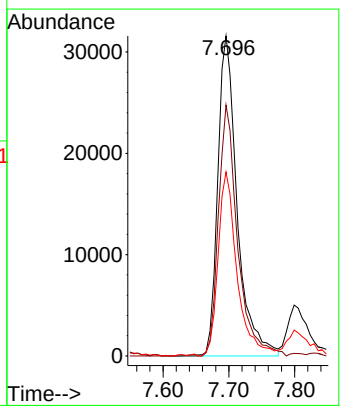


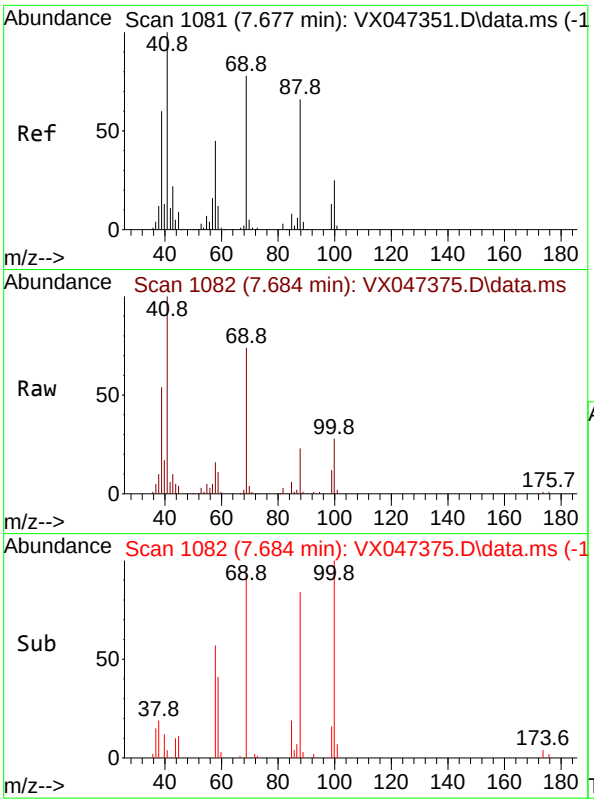


#48
Methyl methacrylate
Concen: 20.557 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 41 Resp: 64892

Ion	Ratio	Lower	Upper
41	100		
69	77.1	65.0	97.4
39	55.9	45.7	68.5



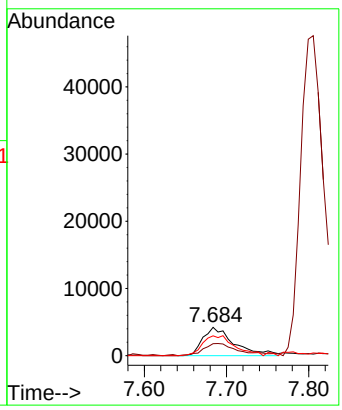


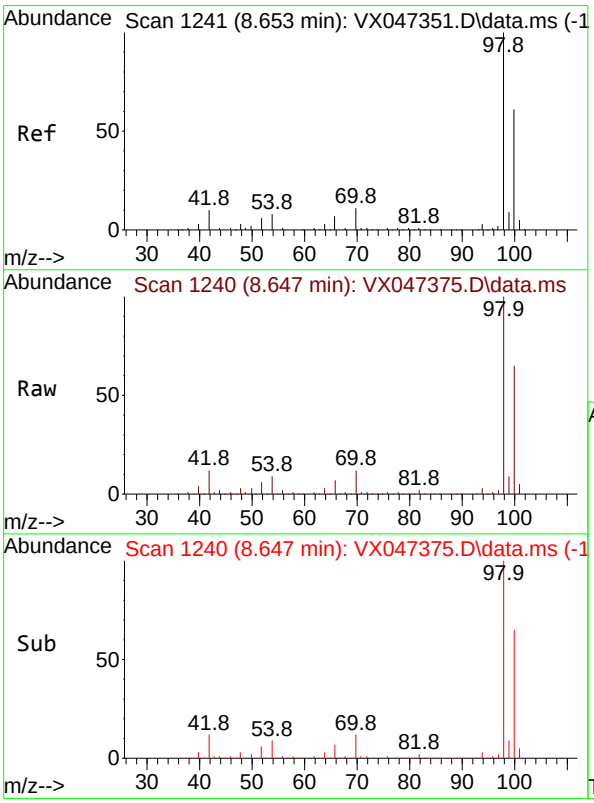
#49
1,4-Dioxane
Concen: 365.275 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 88 Resp: 11209

Ion	Ratio	Lower	Upper
88	100		
43	47.7	32.4	48.6
58	71.5	56.9	85.3

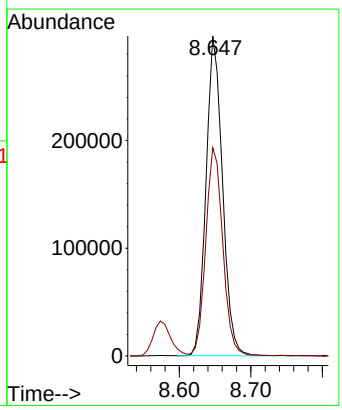


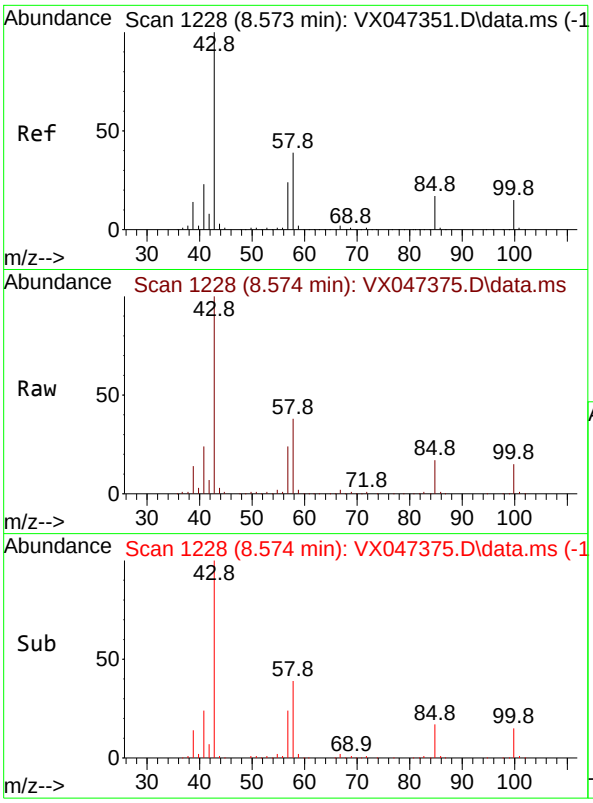


#50
Toluene-d8
Concen: 51.399 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 98 Resp: 474556

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.9	80.9



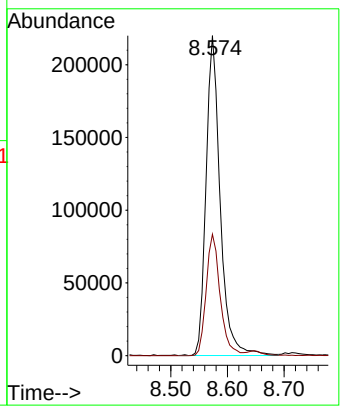


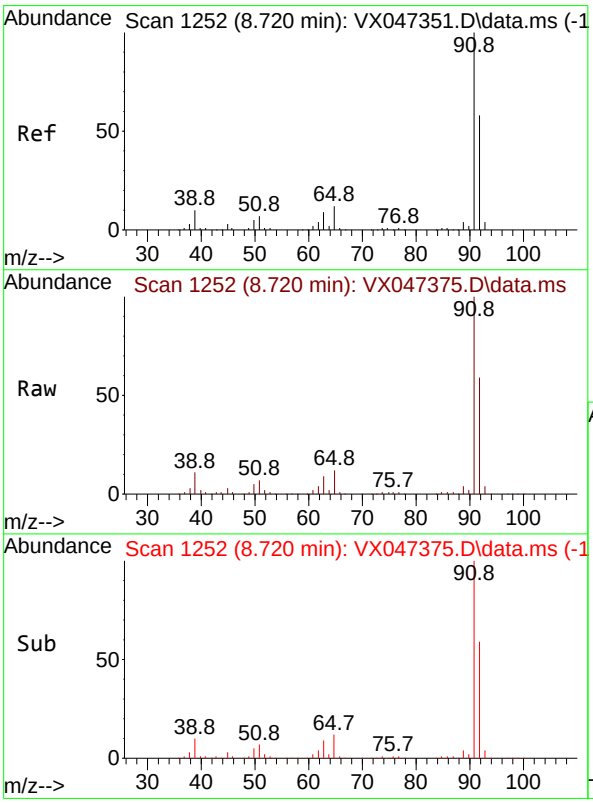
#51
4-Methyl-2-Pentanone
Concen: 108.800 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 43 Resp: 380754

Ion	Ratio	Lower	Upper
43	100		
58	37.7	31.2	46.8

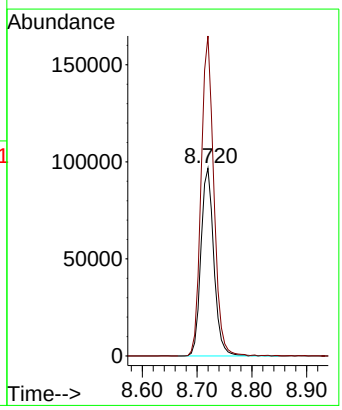


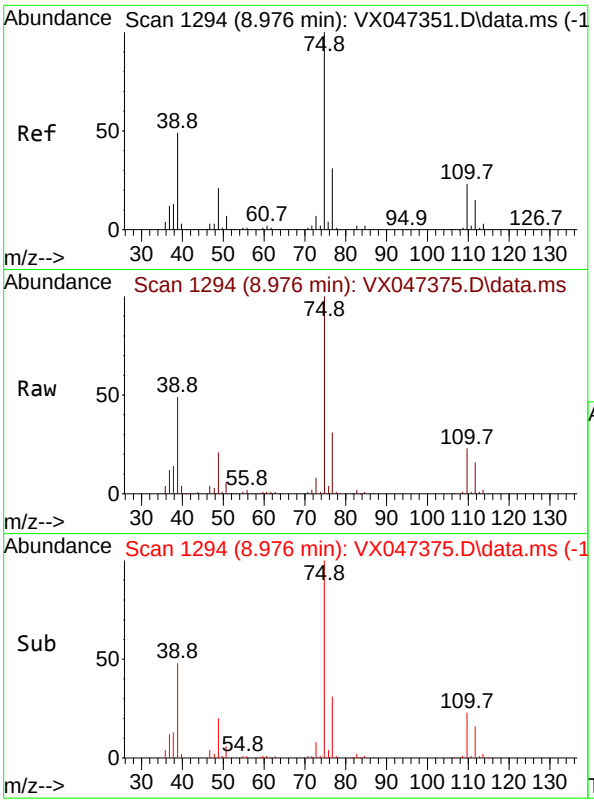


#52
Toluene
Concen: 20.978 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 92 Resp: 158216

Ion	Ratio	Lower	Upper
92	100		
91	167.6	136.3	204.5



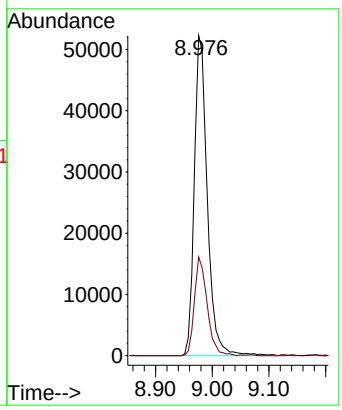


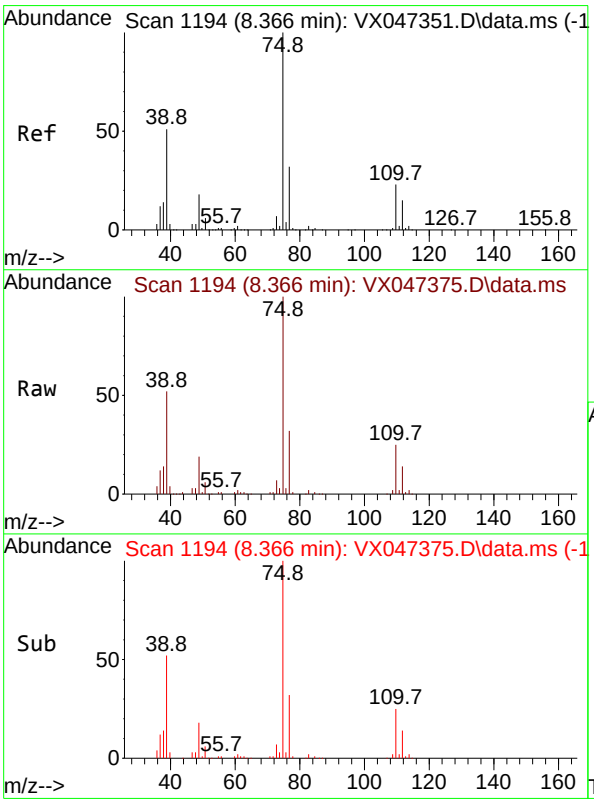
#53
t-1,3-Dichloropropene
Concen: 20.773 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 75 Resp: 83433

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.7	37.1

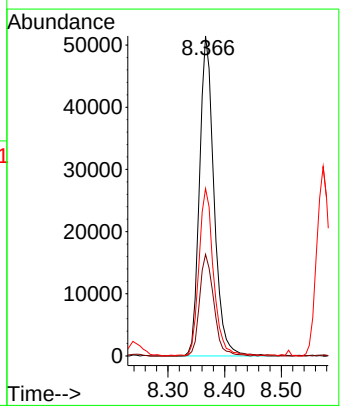


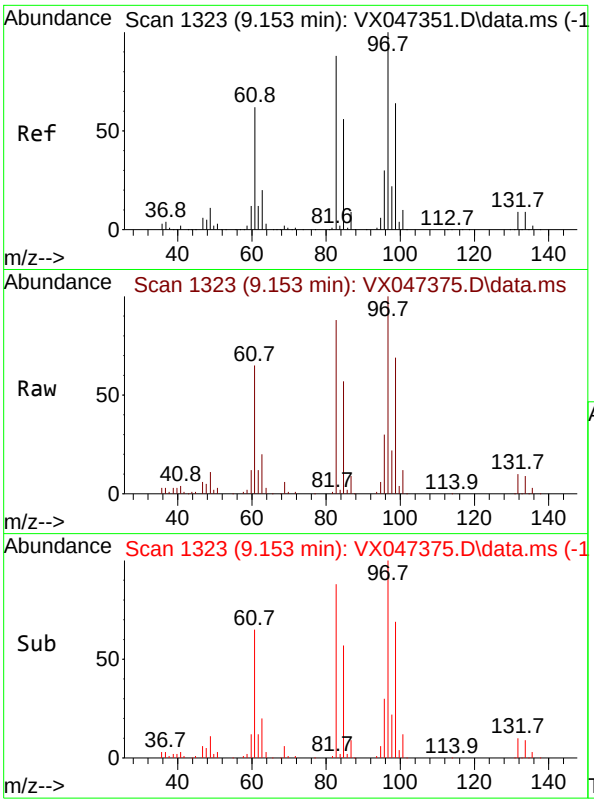


#54
cis-1,3-Dichloropropene
Concen: 20.167 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 75 Resp: 91678

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.6	38.4
39	52.2	40.9	61.3



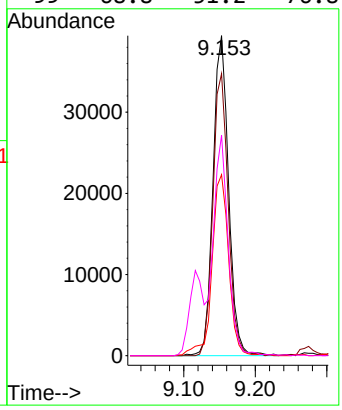


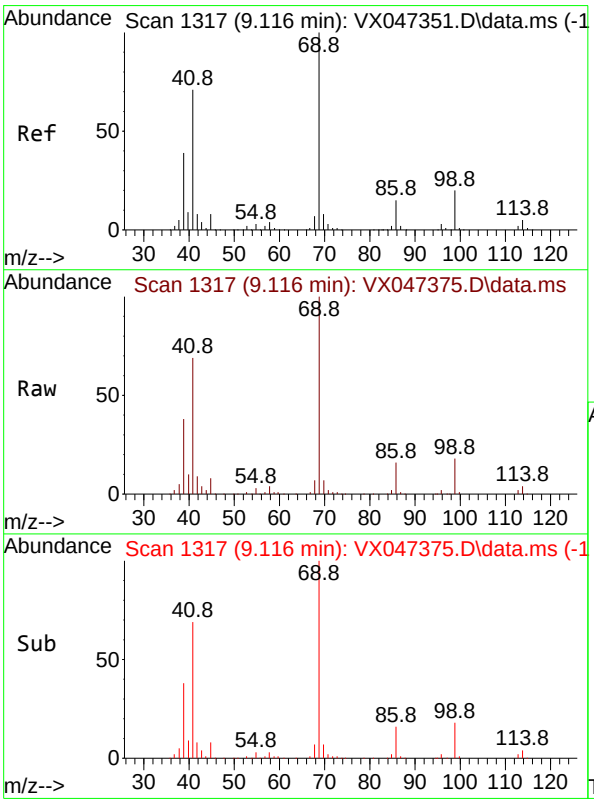
#55
1,1,2-Trichloroethane
Concen: 20.823 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 97 Resp: 59627

Ion	Ratio	Lower	Upper
97	100		
83	88.1	70.6	106.0
85	56.5	44.7	67.1
99	68.8	51.2	76.8

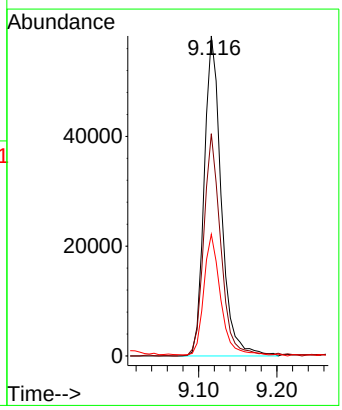


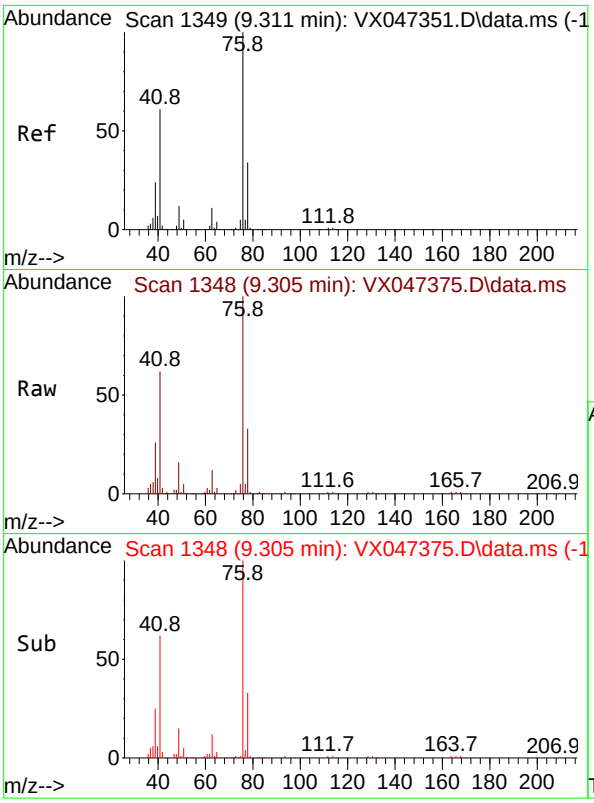


#56
Ethyl methacrylate
Concen: 20.928 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 69 Resp: 88354

Ion	Ratio	Lower	Upper
69	100		
41	69.0	55.3	82.9
39	36.6	30.2	45.2



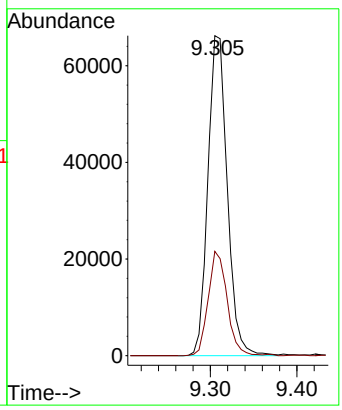


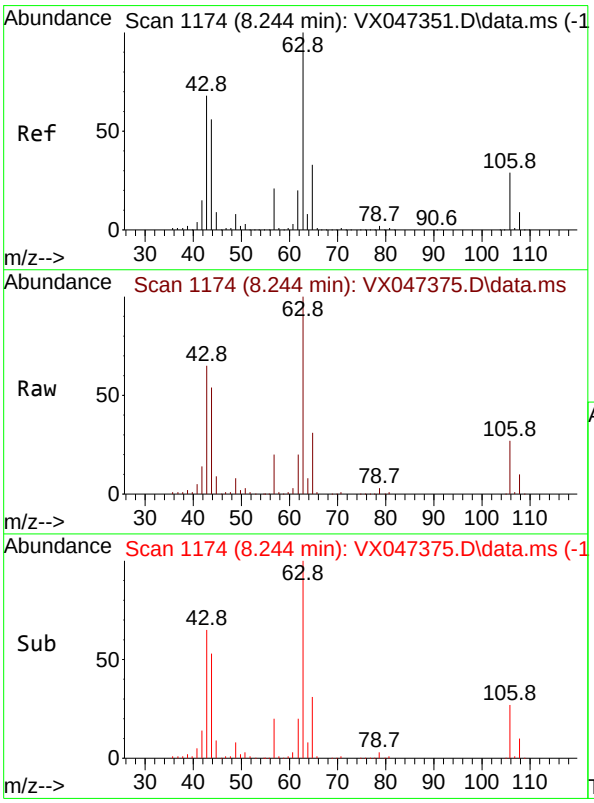
#57
1,3-Dichloropropane
Concen: 21.076 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 76 Resp: 102836

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.2

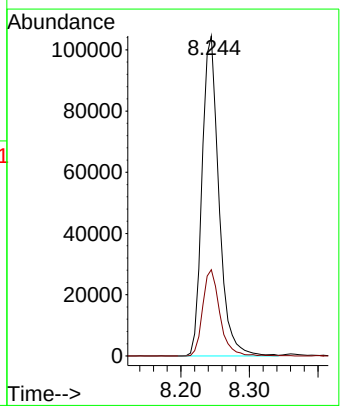


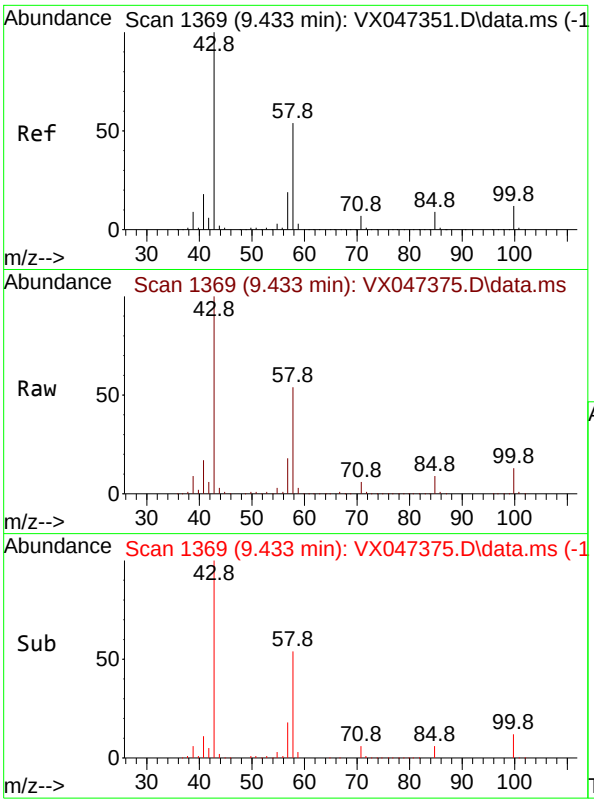


#58
2-Chloroethyl Vinyl ether
Concen: 94.134 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 63 Resp: 178905

Ion	Ratio	Lower	Upper
63	100		
106	27.5	22.8	34.2



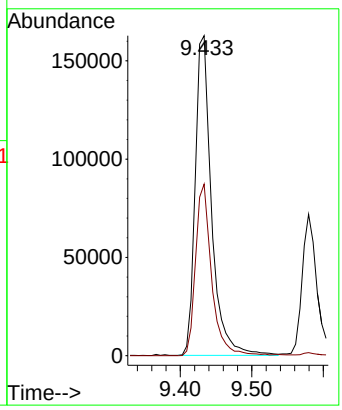


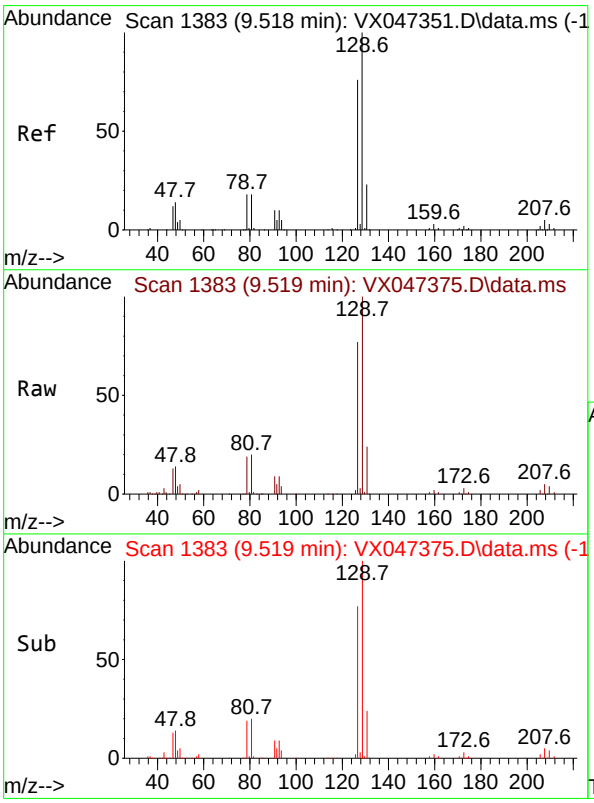
#59
2-Hexanone
Concen: 106.690 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 43 Resp: 258269

Ion	Ratio	Lower	Upper
43	100		
58	52.8	26.9	80.7

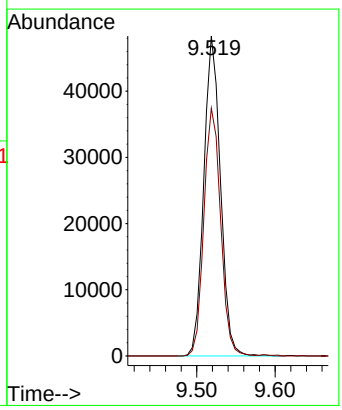


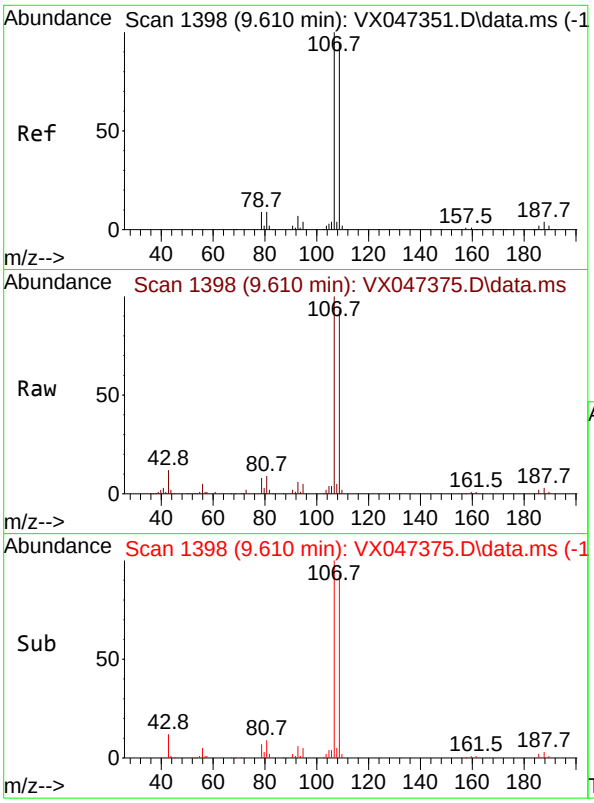


#60
Dibromochloromethane
Concen: 20.951 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:129 Resp: 71298

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.9	116.6



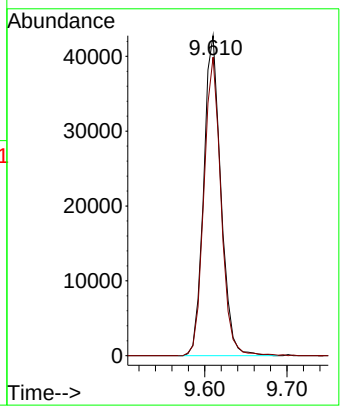


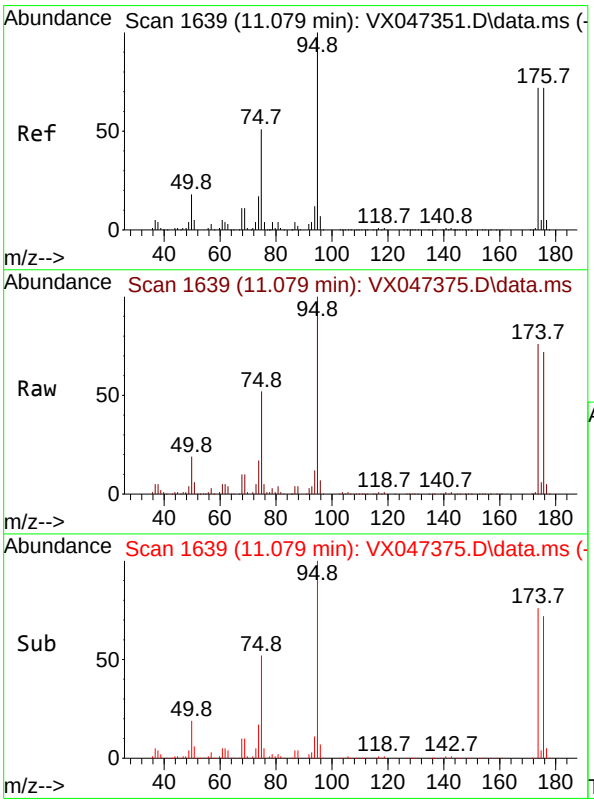
#61
1,2-Dibromoethane
Concen: 21.021 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:107 Resp: 62071

Ion	Ratio	Lower	Upper
107	100		
109	92.9	76.2	114.2

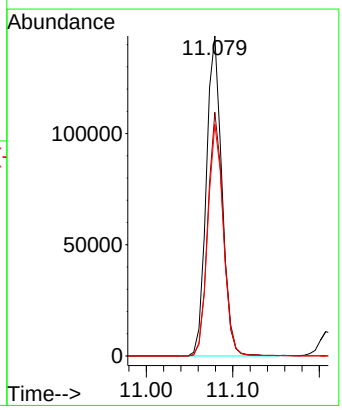


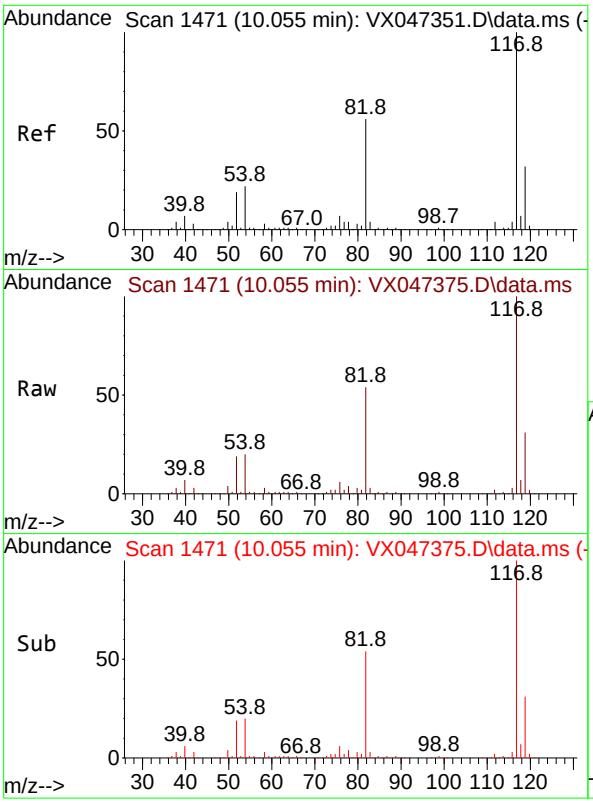


#62
4-Bromofluorobenzene
Concen: 52.621 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 95 Resp: 179282

Ion	Ratio	Lower	Upper
95	100		
174	76.2	0.0	148.0
176	72.5	0.0	145.4



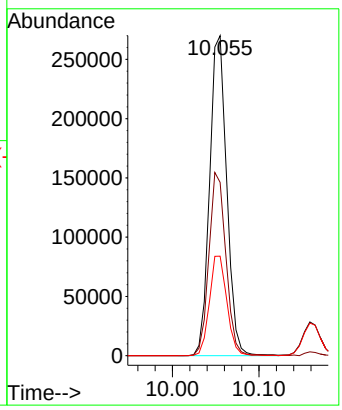


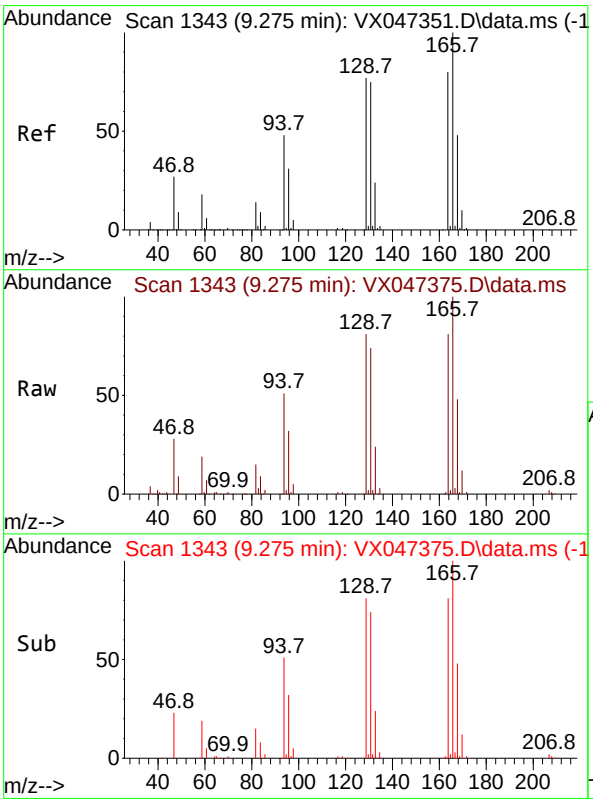
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:117 Resp: 370209

Ion	Ratio	Lower	Upper
117	100		
82	54.1	45.0	67.4
119	31.1	25.8	38.8

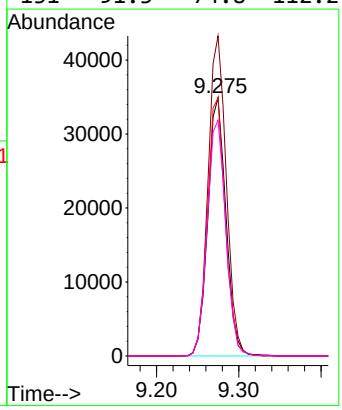


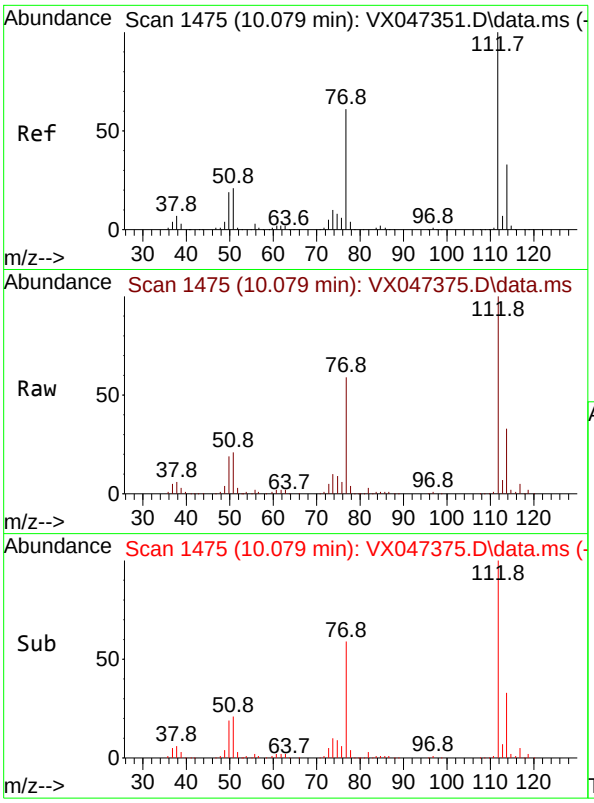


#64
Tetrachloroethene
Concen: 19.955 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:164 Resp: 53436

Ion	Ratio	Lower	Upper
164	100		
166	123.9	100.3	150.5
129	100.0	77.7	116.5
131	91.3	74.8	112.2



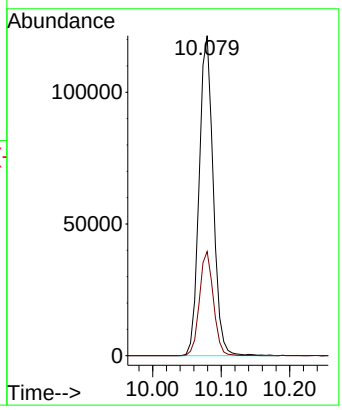


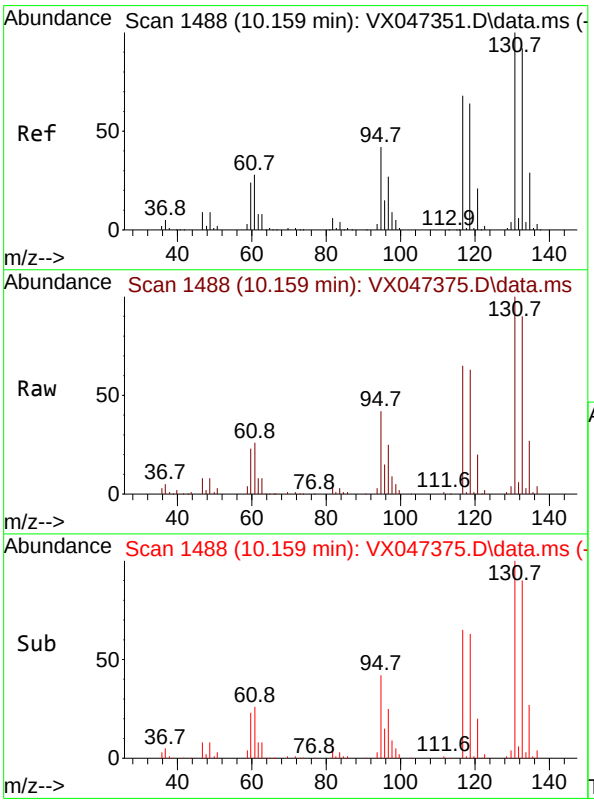
#65
Chlorobenzene
Concen: 19.748 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:112 Resp: 173739

Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.4	39.6

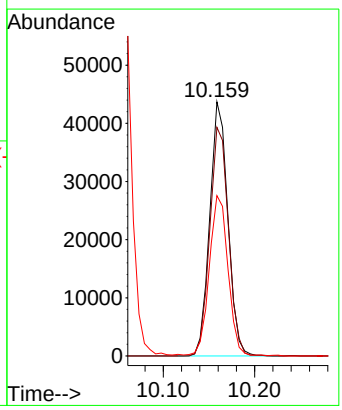


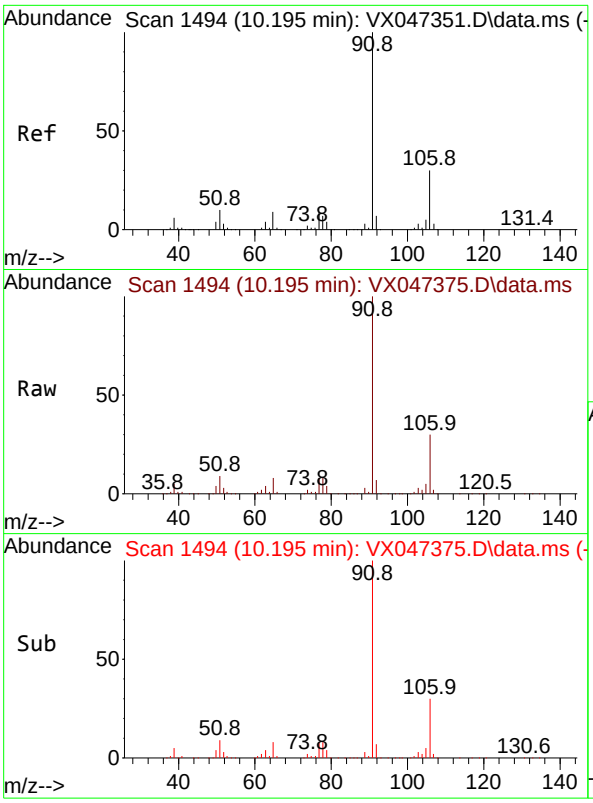


#66
1,1,1,2-Tetrachloroethane
Concen: 20.222 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:131 Resp: 60140

Ion	Ratio	Lower	Upper
131	100		
133	92.5	47.6	142.9
119	65.4	32.3	96.8



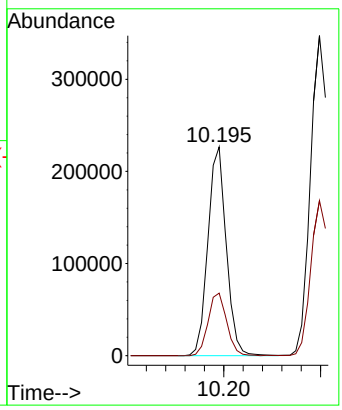


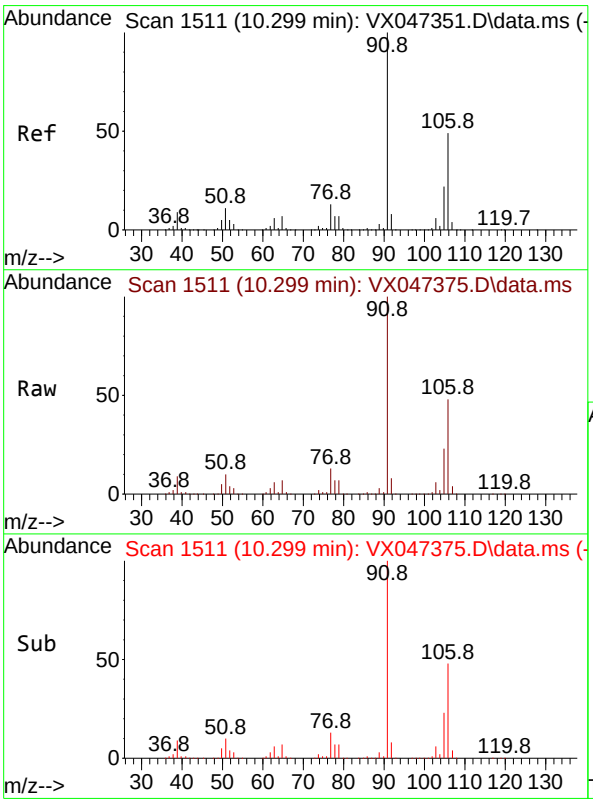
#67
Ethyl Benzene
Concen: 19.748 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 91 Resp: 299018

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.4	36.6

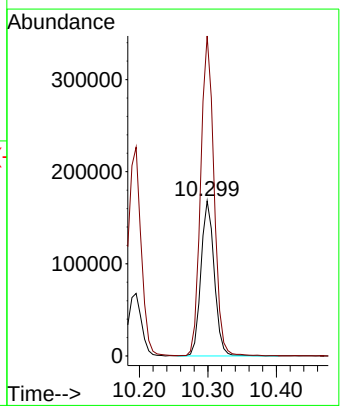


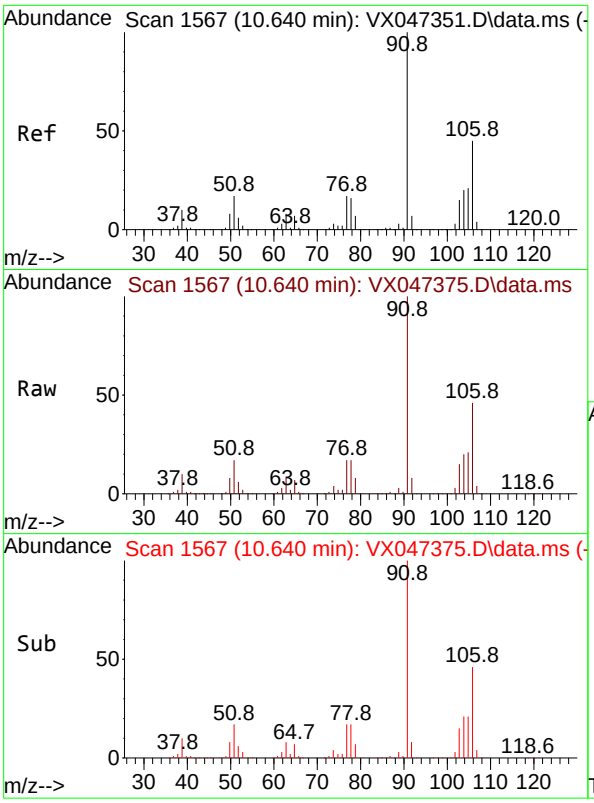


#68
m/p-Xylenes
Concen: 40.486 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:106 Resp: 228585

Ion	Ratio	Lower	Upper
106	100		
91	205.9	164.7	247.1



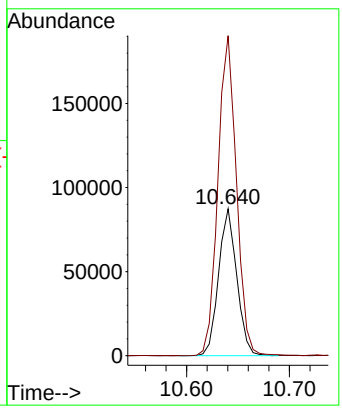


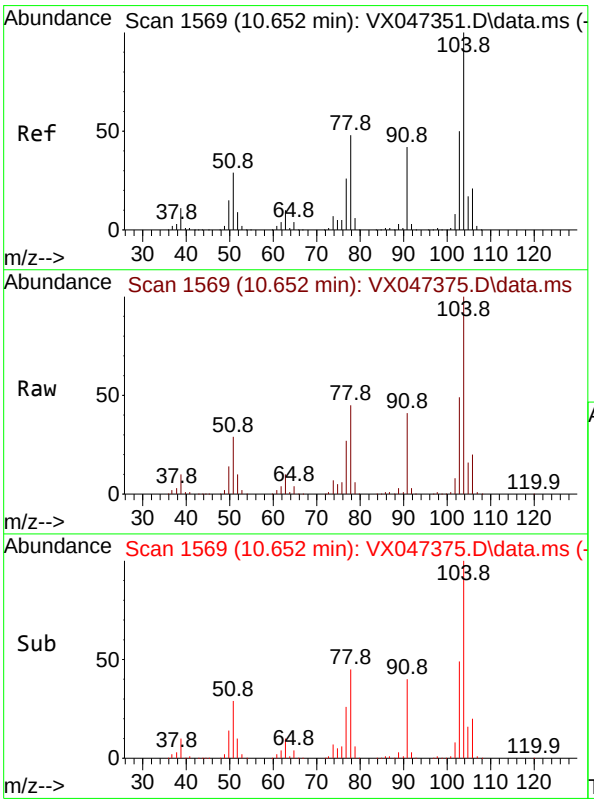
#69
o-Xylene
Concen: 19.750 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:106 Resp: 107309

Ion	Ratio	Lower	Upper
106	100		
91	221.7	110.6	331.8

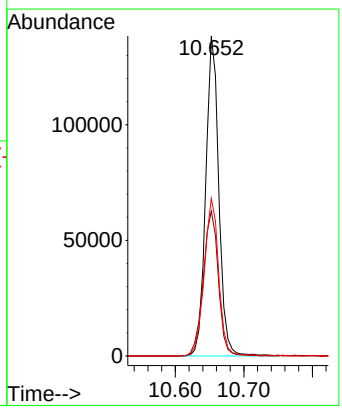


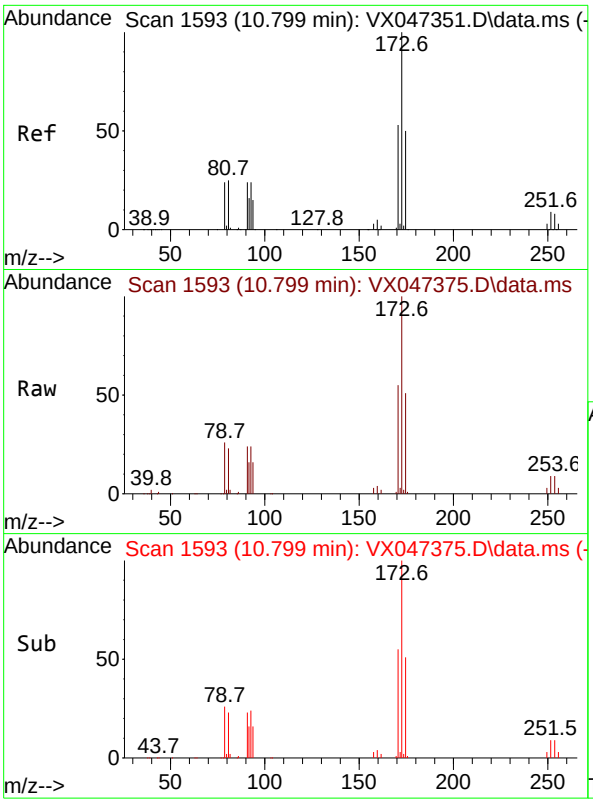


#70
Styrene
Concen: 20.081 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:104 Resp: 184361

Ion	Ratio	Lower	Upper
104	100		
78	52.2	41.8	62.8
103	54.5	43.6	65.4



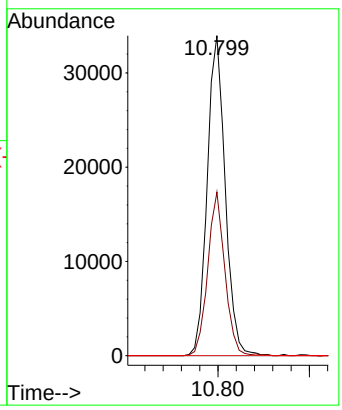


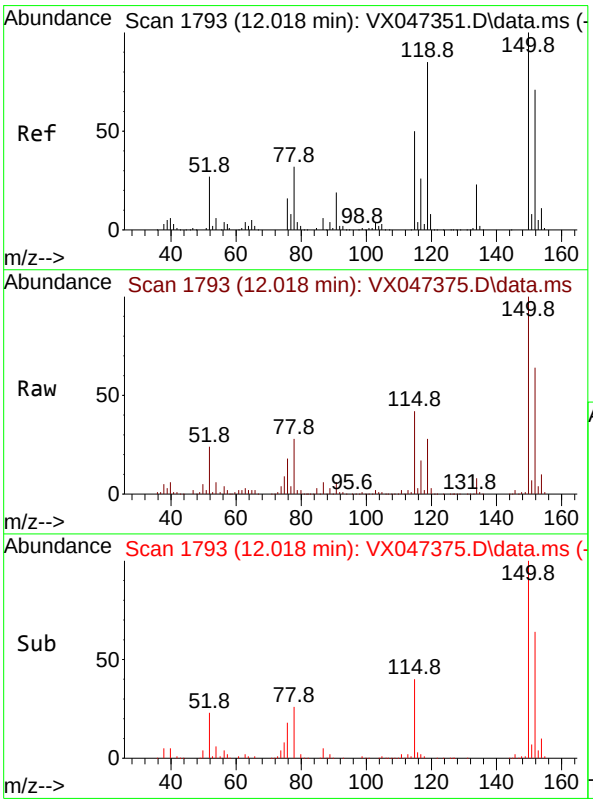
#71
Bromoform
Concen: 20.703 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:173 Resp: 46255

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.4	73.4
254	0.0	0.1	0.1#

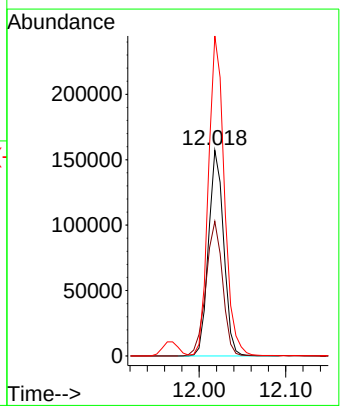


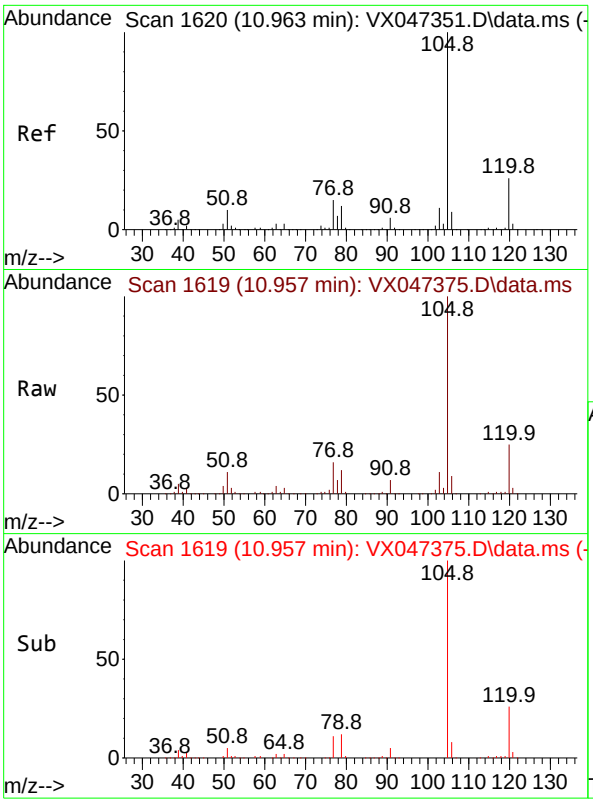


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:152 Resp: 191427

Ion	Ratio	Lower	Upper
152	100		
115	71.8	44.6	133.8
150	163.3	0.0	349.8



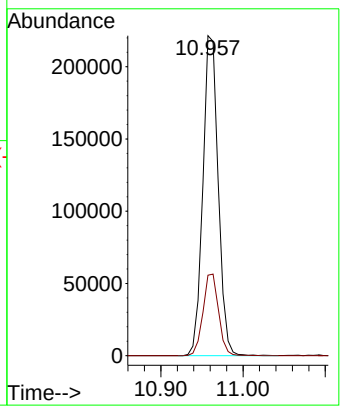


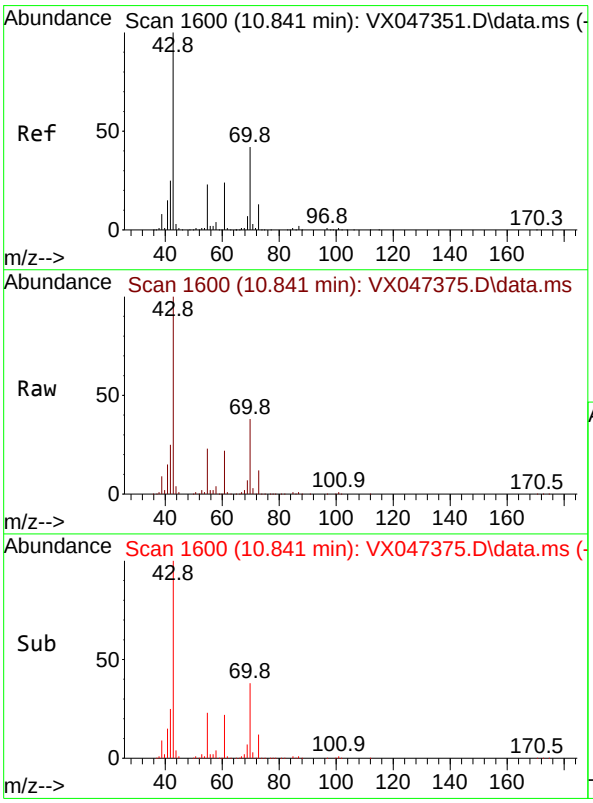
#73
Isopropylbenzene
Concen: 19.197 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:105 Resp: 287576

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.9	38.6

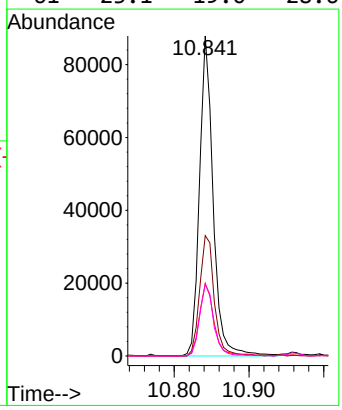


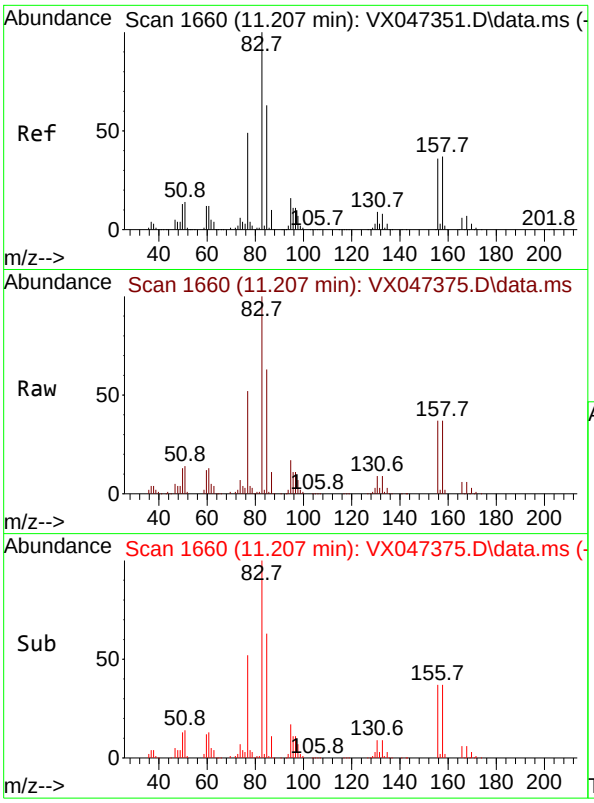


#74
N-amyl acetate
Concen: 19.604 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 43 Resp: 111520

Ion	Ratio	Lower	Upper
43	100		
70	40.6	33.1	49.7
55	24.0	19.0	28.6
61	23.1	19.0	28.6



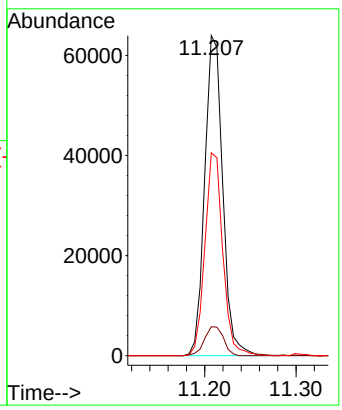


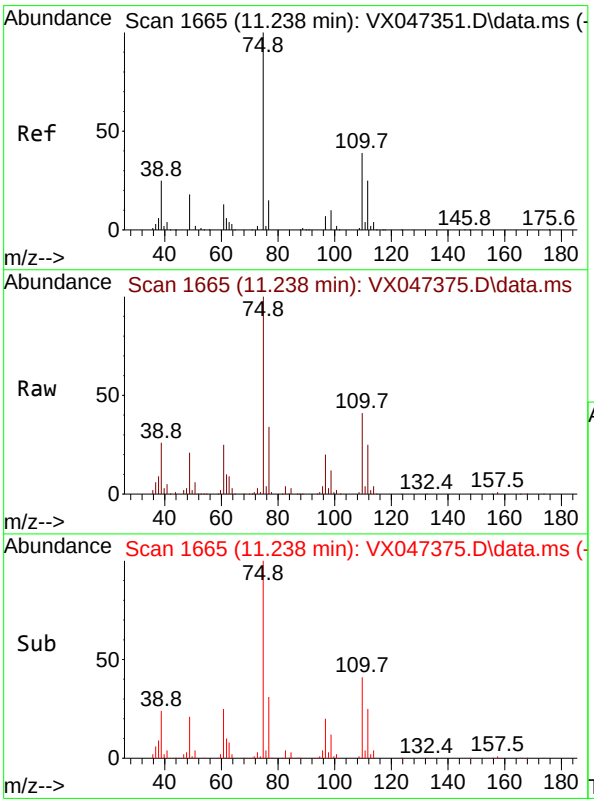
#75
1,1,2,2-Tetrachloroethane
Concen: 19.874 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 83 Resp: 87410

Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.0	15.0
85	63.0	31.7	95.1

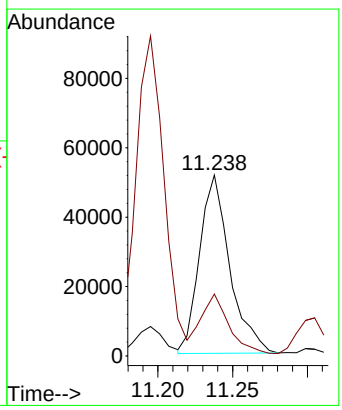


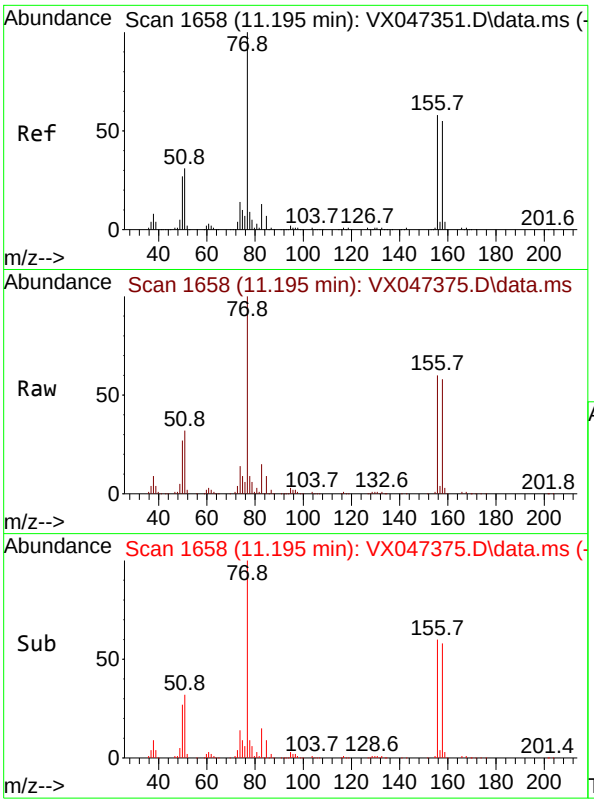


#76
1,2,3-Trichloropropane
Concen: 20.580 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 75 Resp: 72255

Ion	Ratio	Lower	Upper
75	100		
77	33.8	19.4	58.2



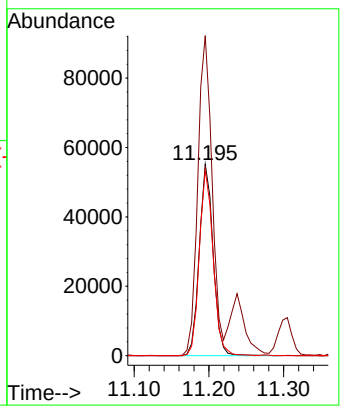


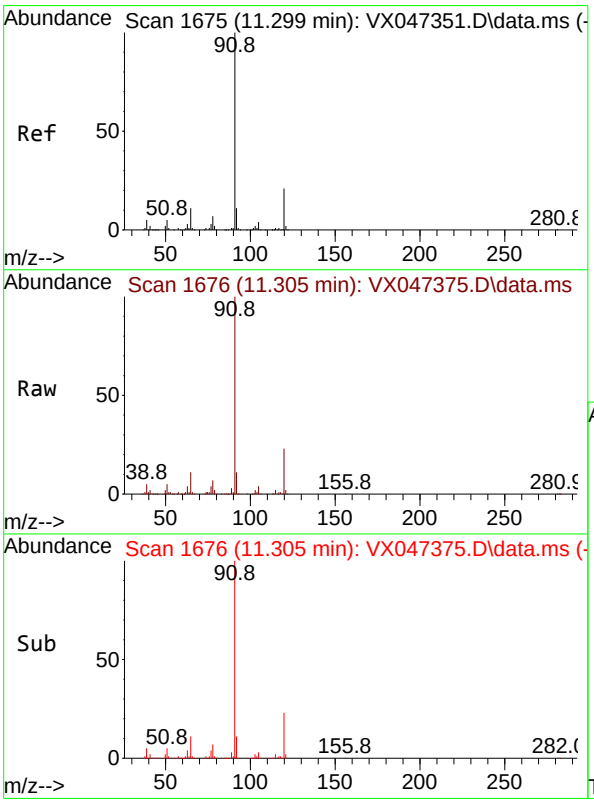
#77
Bromobenzene
Concen: 19.430 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:156 Resp: 71076

Ion	Ratio	Lower	Upper
156	100		
77	171.7	86.3	258.9
158	96.8	48.0	144.2

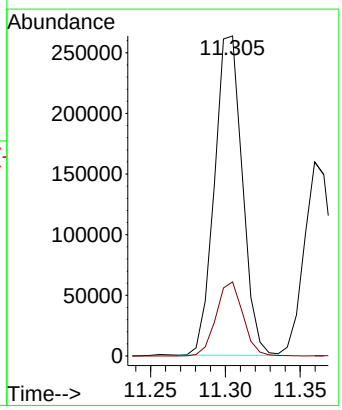


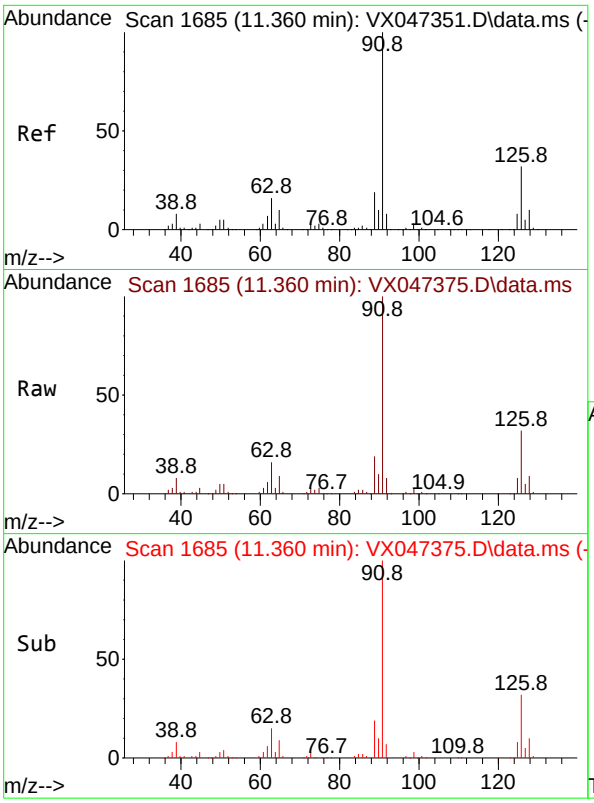


#78
n-propylbenzene
Concen: 19.079 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 91 Resp: 341340

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.0	33.0



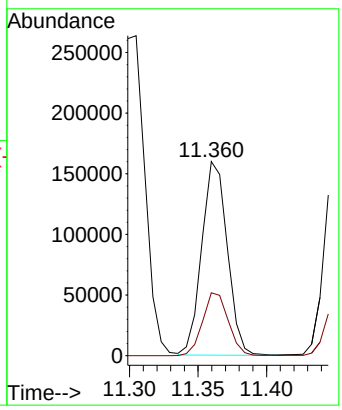


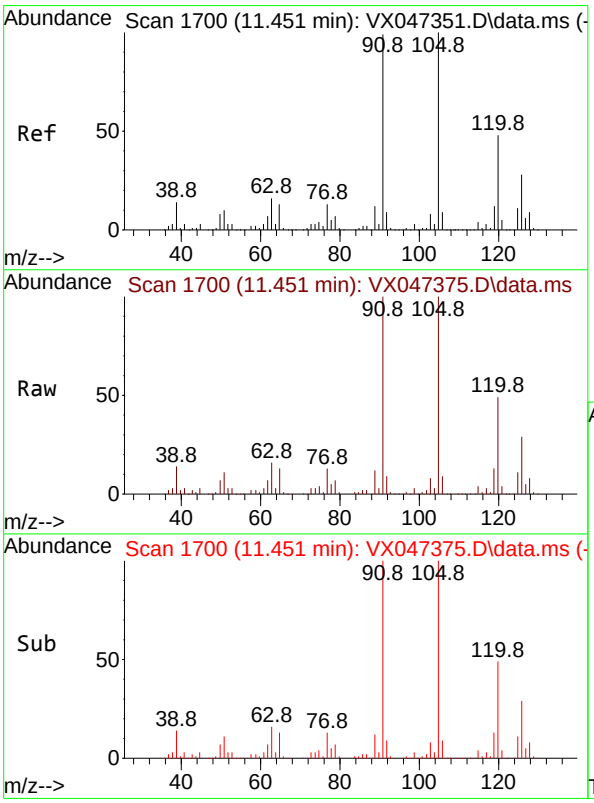
#79
2-Chlorotoluene
Concen: 19.188 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 91 Resp: 207518

Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.7	50.1

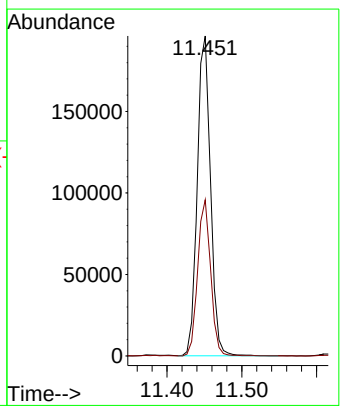


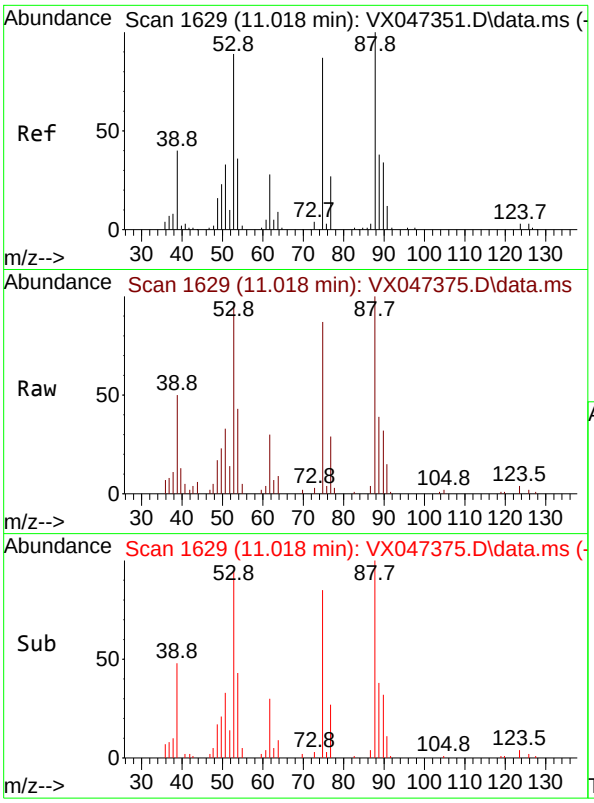


#80
1,3,5-Trimethylbenzene
Concen: 19.557 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:105 Resp: 241050

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.9	71.7



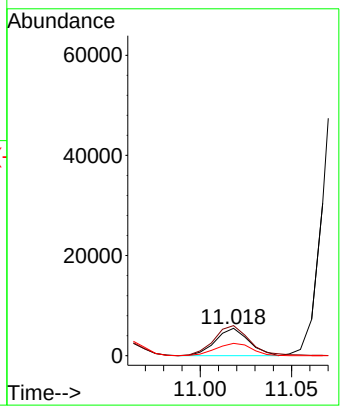


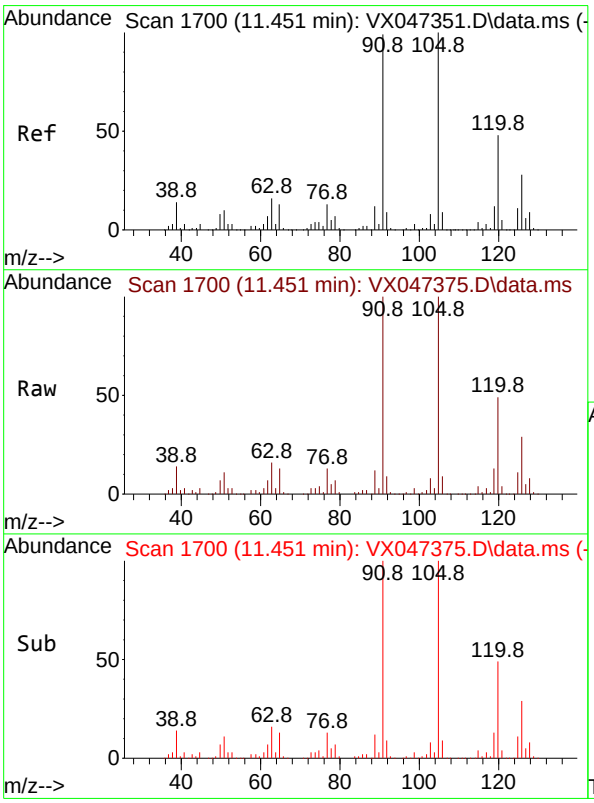
#81
trans-1,4-Dichloro-2-butene
Concen: 15.093 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 75 Resp: 6928

Ion	Ratio	Lower	Upper
75	100		
53	117.8	85.2	127.8
89	48.6	36.7	55.1

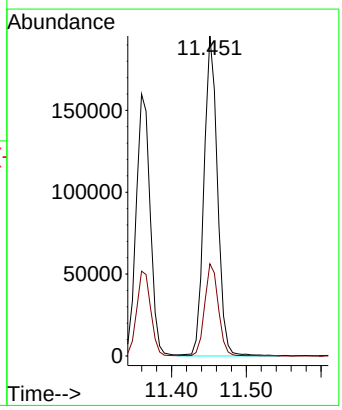


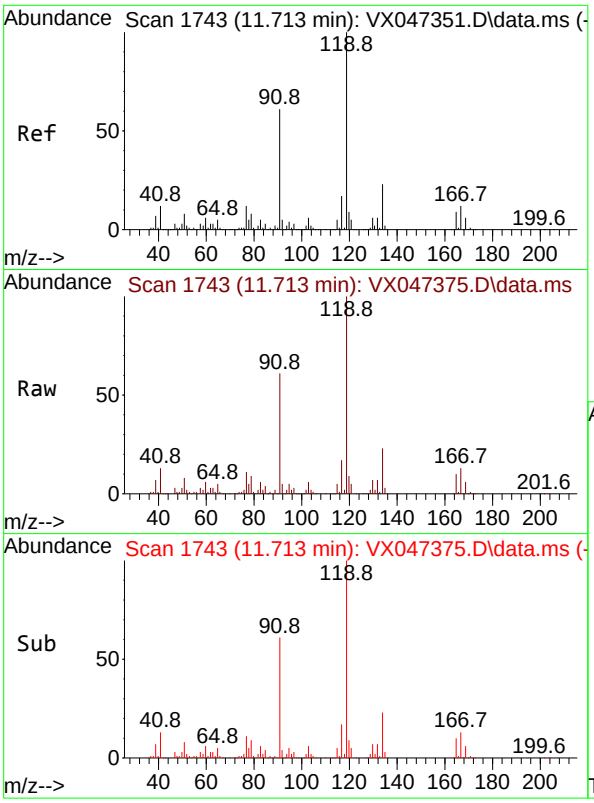


#82
4-Chlorotoluene
Concen: 19.215 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 91 Resp: 244966

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.4	43.0



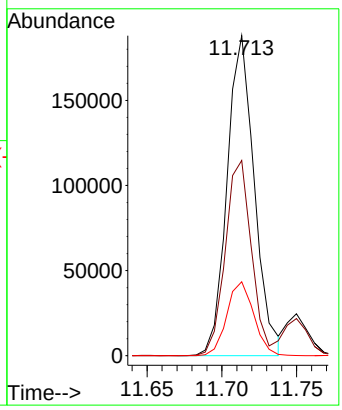


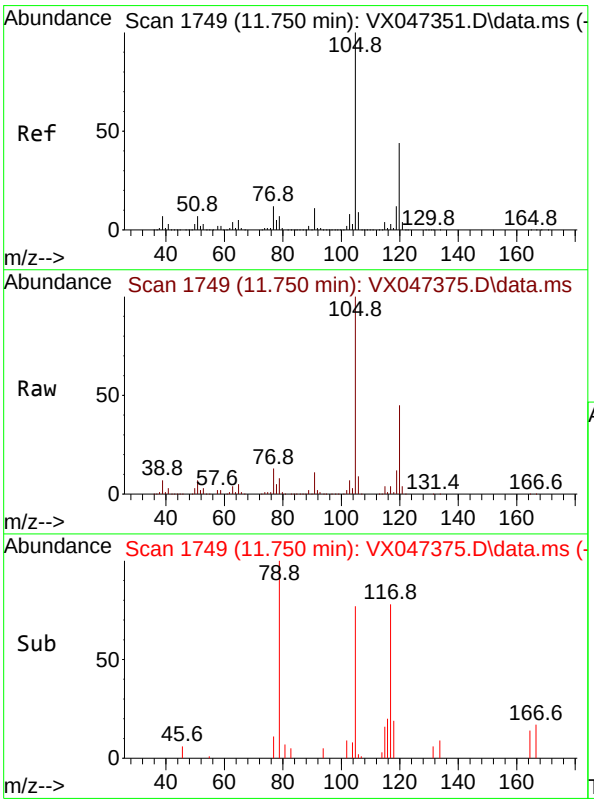
#83
tert-Butylbenzene
Concen: 19.415 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:119 Resp: 238742

Ion	Ratio	Lower	Upper
119	100		
91	58.4	29.1	87.4
134	22.8	11.3	33.9

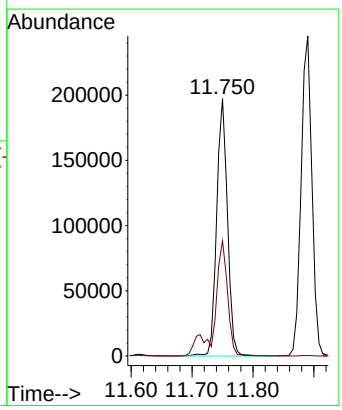


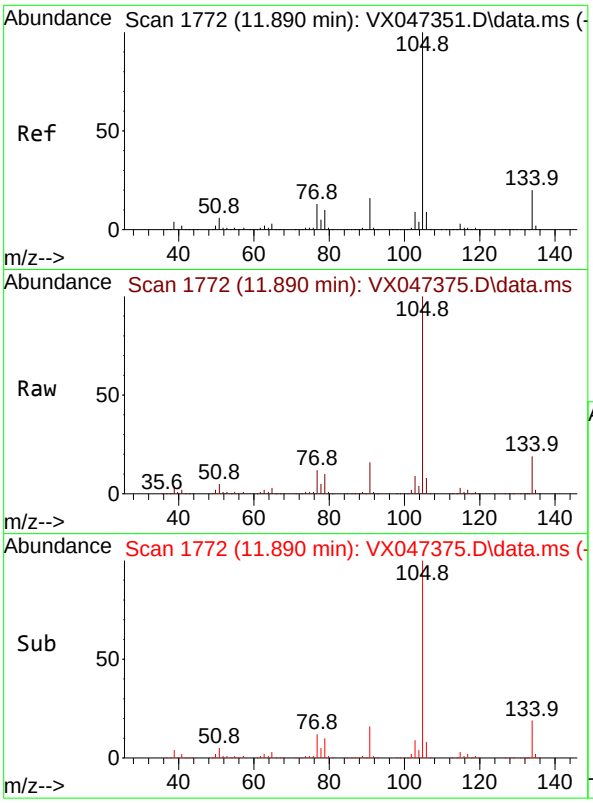


#84
1,2,4-Trimethylbenzene
Concen: 19.618 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:105 Resp: 241810

Ion	Ratio	Lower	Upper
105	100		
120	43.0	21.9	65.7



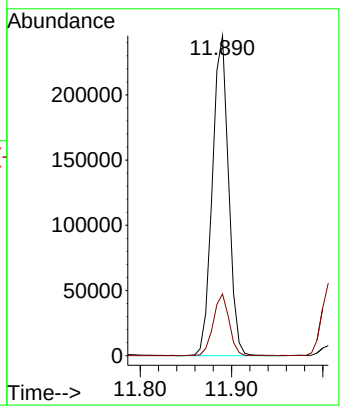


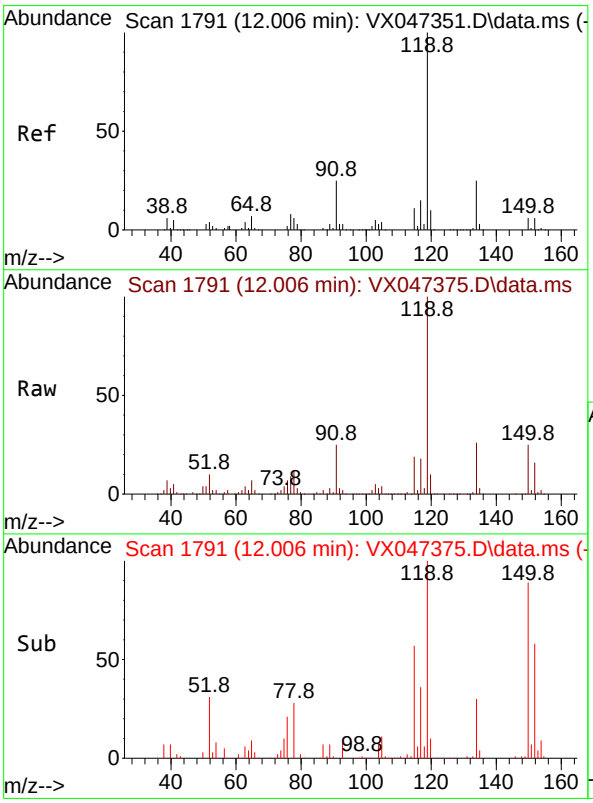
#85
sec-Butylbenzene
Concen: 19.769 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:105 Resp: 301301

Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.8	29.5

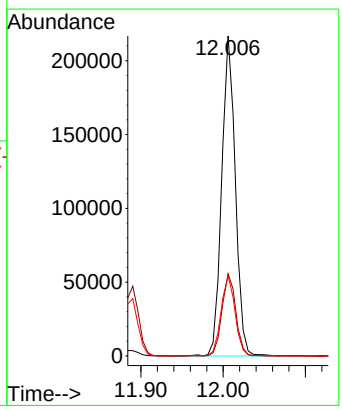


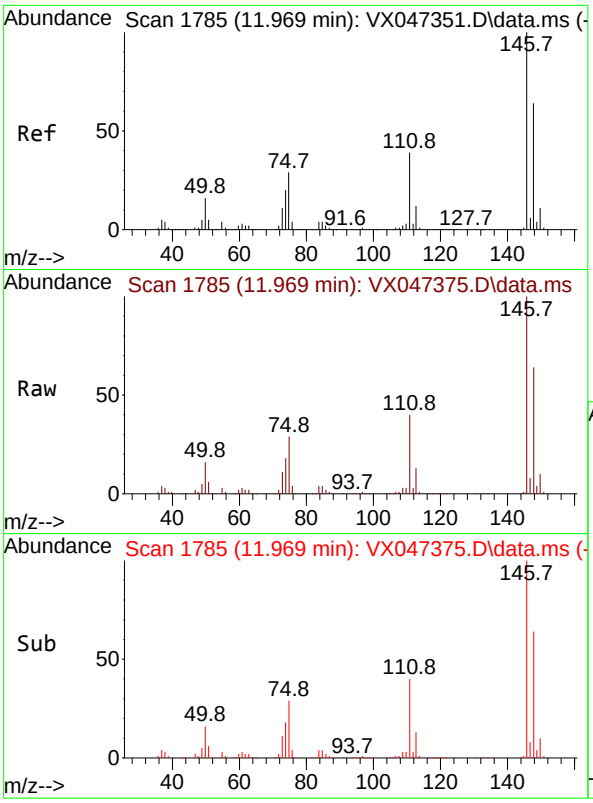


#86
p-Isopropyltoluene
Concen: 19.353 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:119 Resp: 249604

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	25.7	12.4	37.4



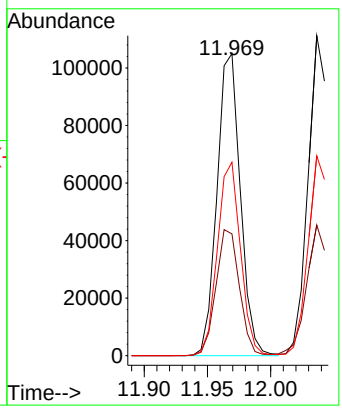


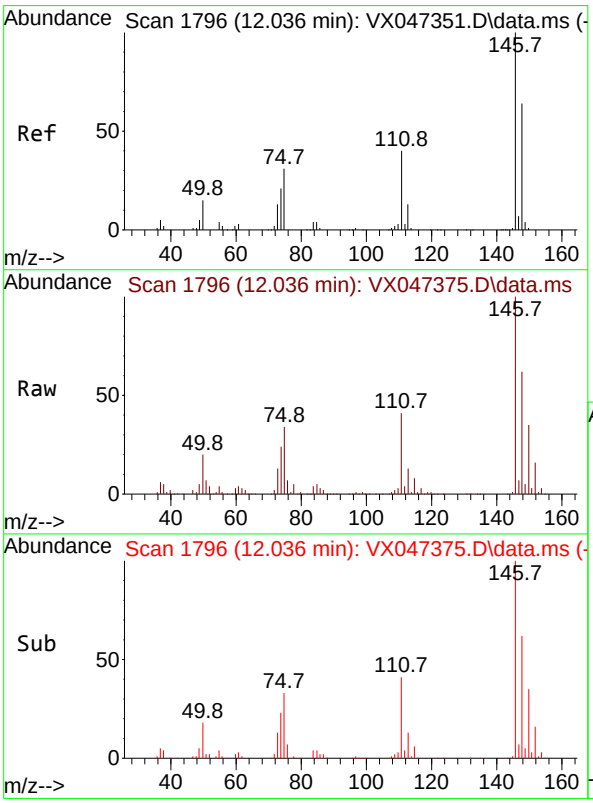
#87
1,3-Dichlorobenzene
Concen: 19.290 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:146 Resp: 134802

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.6	61.8
148	63.3	31.9	95.5

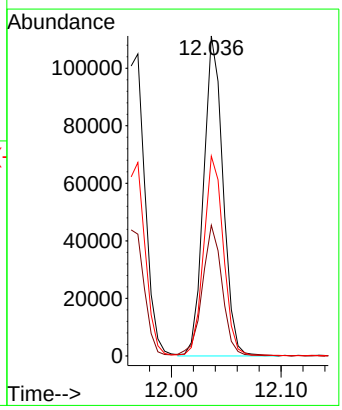


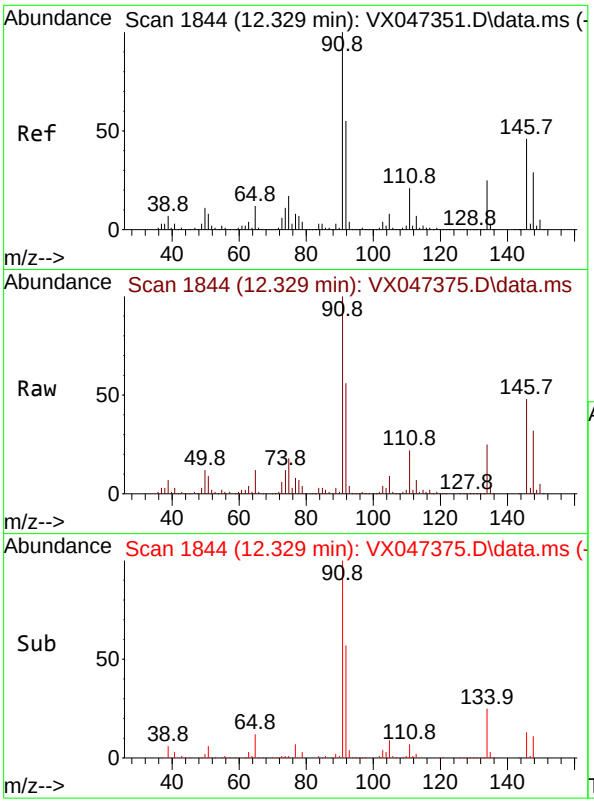


#88
1,4-Dichlorobenzene
Concen: 18.977 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:146 Resp: 136399

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.4	61.2
148	63.7	31.7	95.1



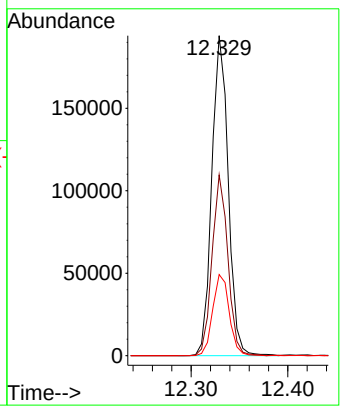


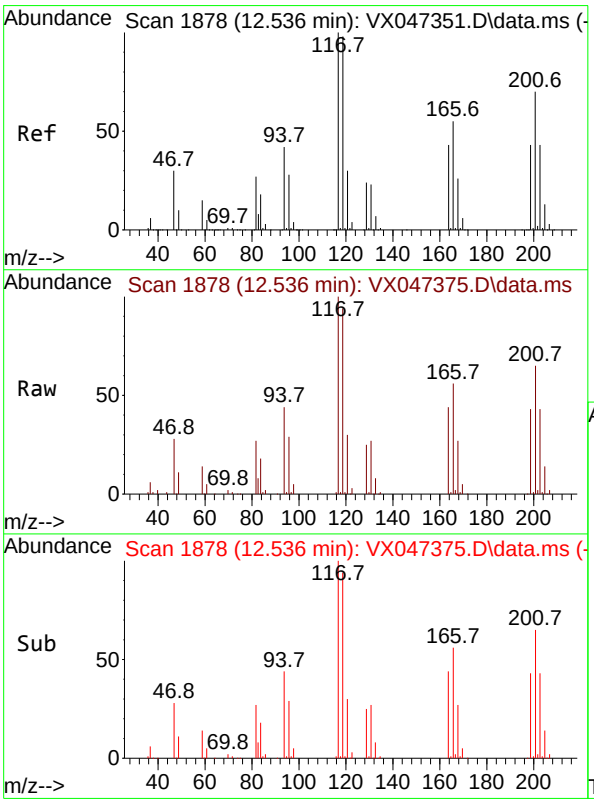
#89
n-Butylbenzene
Concen: 19.042 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion: 91 Resp: 228427

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.2	81.5
134	25.6	12.6	37.8

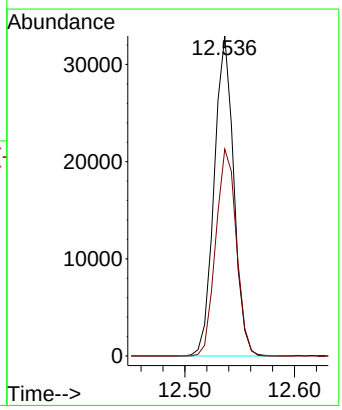


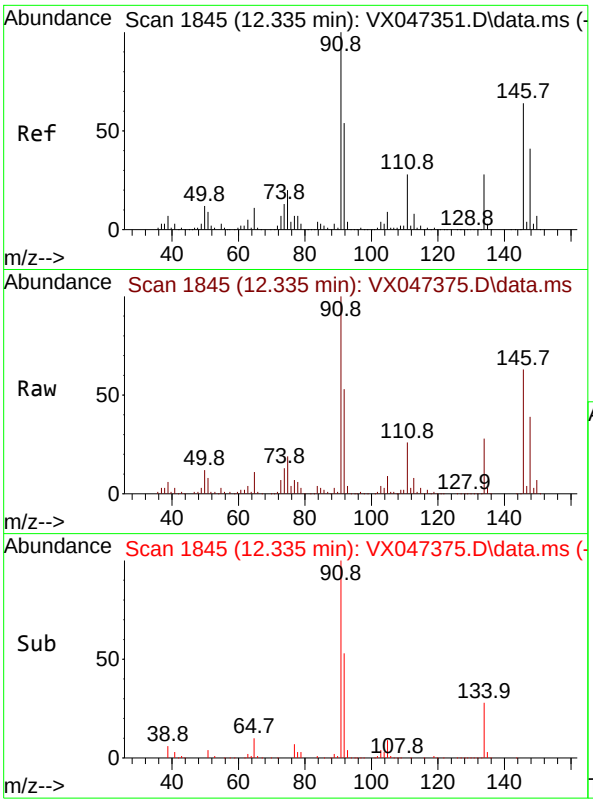


#90
Hexachloroethane
Concen: 18.060 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:117 Resp: 40863

Ion	Ratio	Lower	Upper
117	100		
201	68.1	35.1	105.3



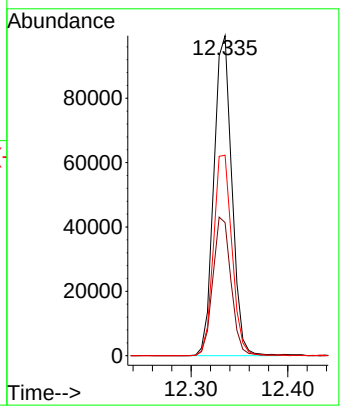


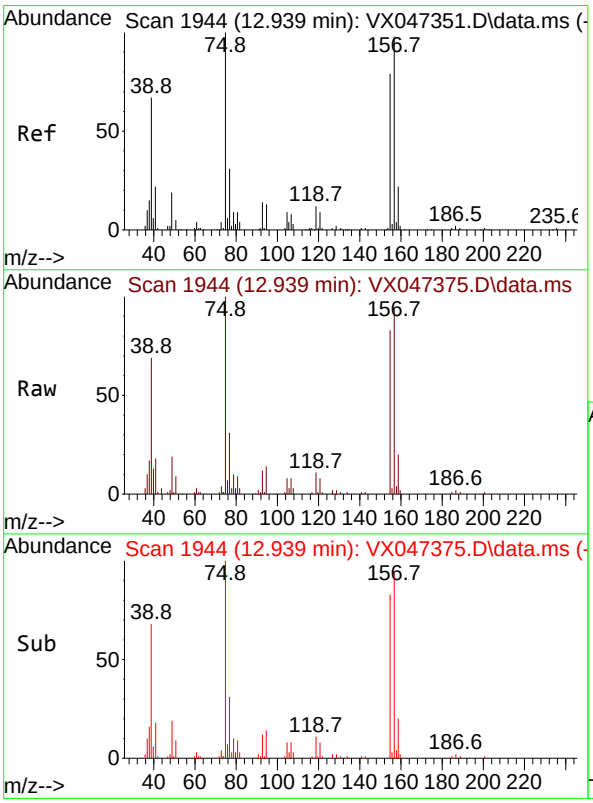
#91
1,2-Dichlorobenzene
Concen: 19.386 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:146 Resp: 128589

Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.1	66.1
148	64.2	31.9	95.5

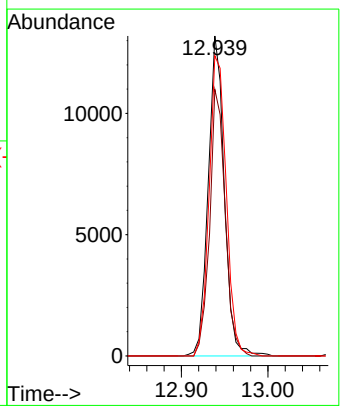


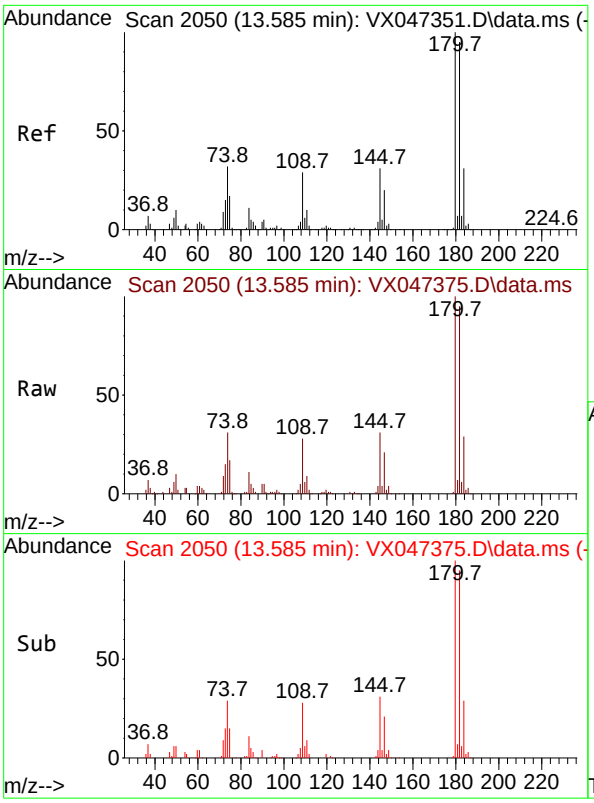


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.017 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion: 75 Resp: 17026

Ion	Ratio	Lower	Upper
75	100		
155	80.4	41.3	123.7
157	100.2	51.5	154.5



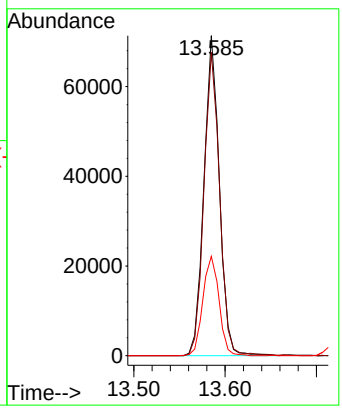


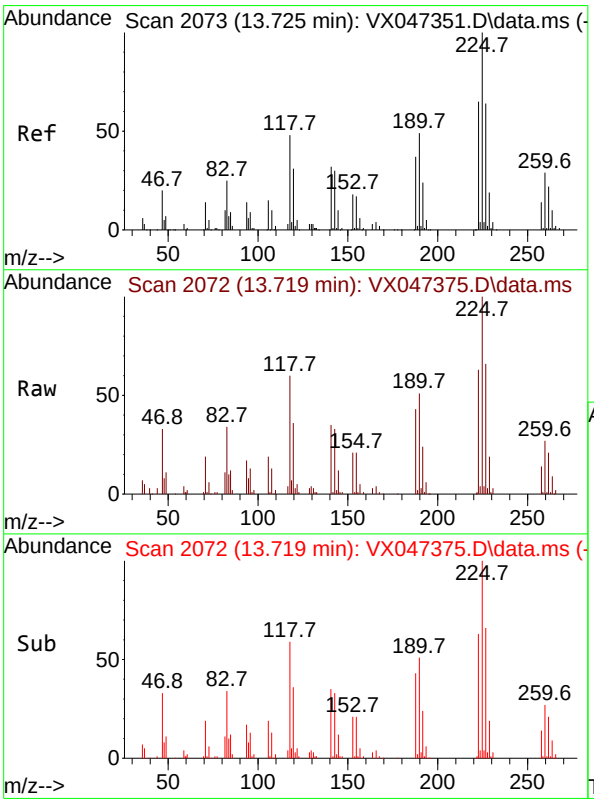
#93
1,2,4-Trichlorobenzene
Concen: 18.790 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:180 Resp: 83552

Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.1	144.4
145	32.5	16.2	48.5

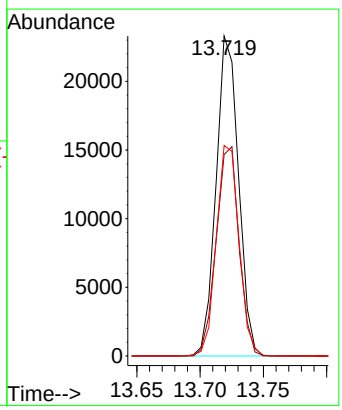


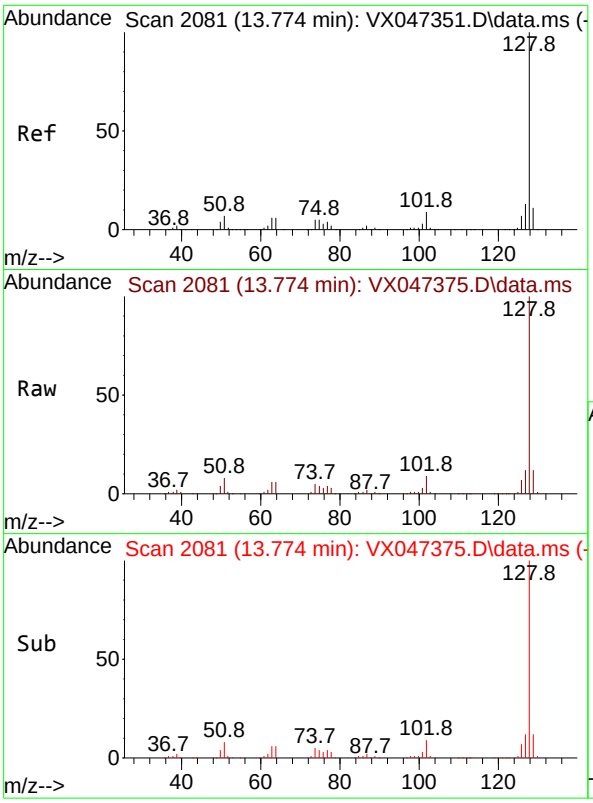


#94
Hexachlorobutadiene
Concen: 18.107 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:225 Resp: 28659

Ion	Ratio	Lower	Upper
225	100		
223	66.6	32.2	96.6
227	66.5	31.6	95.0



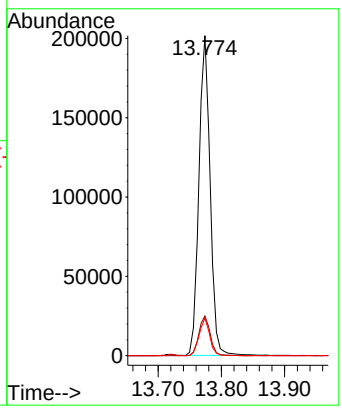


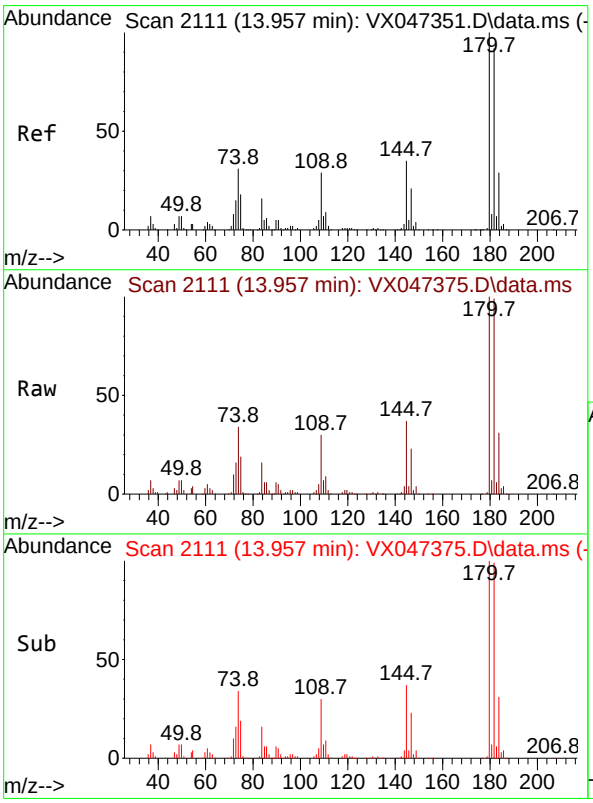
#95
Naphthalene
Concen: 19.549 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
VX0818WBSD01

Tgt Ion:128 Resp: 248413

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.1	15.1
129	11.1	8.7	13.1

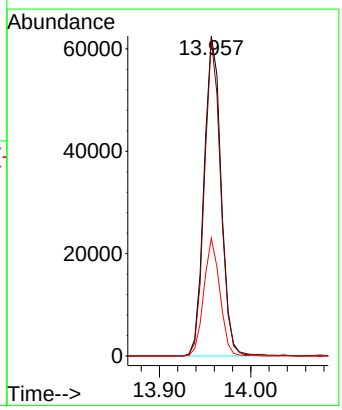




#96
1,2,3-Trichlorobenzene
Concen: 19.176 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047375.D
Acq: 18 Aug 2025 12:44

Tgt Ion:180 Resp: 80375

Ion	Ratio	Lower	Upper
180	100		
182	95.5	48.0	144.2
145	34.7	17.4	52.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	239104	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	409468	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	364979	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	181876	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	169393	50.620	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.240%			
35) Dibromofluoromethane	5.404	113	134653	50.669	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.340%			
50) Toluene-d8	8.653	98	472396	49.733	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.460%			
62) 4-Bromofluorobenzene	11.079	95	177952	50.769	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	151457	49.690	ug/l	98
3) Chloromethane	1.313	50	134677	49.117	ug/l	95
4) Vinyl Chloride	1.392	62	161209	46.841	ug/l	98
5) Bromomethane	1.624	94	41982	30.200	ug/l	97
6) Chloroethane	1.703	64	100911	47.923	ug/l	100
7) Trichlorofluoromethane	1.904	101	242847	47.704	ug/l	100
8) Diethyl Ether	2.148	74	85280	47.576	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.349	101	144462	48.921	ug/l	99
10) Methyl Iodide	2.471	142	139225	27.512	ug/l	97
11) Tert butyl alcohol	2.965	59	82261	282.575	ug/l	100
12) 1,1-Dichloroethene	2.337	96	141611	47.039	ug/l	95
13) Acrolein	2.252	56	8966	14.590	ug/l	92
14) Allyl chloride	2.684	41	217448	41.586	ug/l	98
15) Acrylonitrile	3.081	53	363973	258.742	ug/l	99
16) Acetone	2.392	43	299617	238.203	ug/l	99
17) Carbon Disulfide	2.532	76	425517	46.840	ug/l	98
18) Methyl Acetate	2.715	43	176982	54.297	ug/l	100
19) Methyl tert-butyl Ether	3.130	73	453492	49.516	ug/l	97
20) Methylene Chloride	2.806	84	157641	47.329	ug/l	98
21) trans-1,2-Dichloroethene	3.111	96	149432	46.767	ug/l	97
22) Diisopropyl ether	3.776	45	511346	49.473	ug/l	96
23) Vinyl Acetate	3.739	43	2084668	246.075	ug/l	99
24) 1,1-Dichloroethane	3.629	63	280167	47.957	ug/l	99
25) 2-Butanone	4.568	43	436669	265.075	ug/l	99
26) 2,2-Dichloropropane	4.495	77	175530	39.808	ug/l	97
27) cis-1,2-Dichloroethene	4.501	96	175340	47.114	ug/l	98
28) Bromochloromethane	4.910	49	118660	48.810	ug/l	100
29) Tetrahydrofuran	5.026	42	283761	266.507	ug/l	98
30) Chloroform	5.111	83	286078	47.982	ug/l	97
31) Cyclohexane	5.489	56	254659	47.287	ug/l	97
32) 1,1,1-Trichloroethane	5.397	97	245866	47.909	ug/l	99
36) 1,1-Dichloropropene	5.708	75	199797	47.627	ug/l	99
37) Ethyl Acetate	4.727	43	210513	48.337	ug/l	99
38) Carbon Tetrachloride	5.696	117	215992	47.116	ug/l	99
39) Methylcyclohexane	7.391	83	247122	47.227	ug/l	95
40) Benzene	6.050	78	598209	47.641	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	91908	50.045	ug/l		95
42) 1,2-Dichloroethane	6.098	62	211887	47.640	ug/l		100
43) Isopropyl Acetate	6.348	43	317114	50.686	ug/l		100
44) Trichloroethene	7.135	130	151205	47.029	ug/l		99
45) 1,2-Dichloropropane	7.434	63	149932	47.663	ug/l		98
46) Dibromomethane	7.586	93	108086	47.328	ug/l		99
47) Bromodichloromethane	7.824	83	224833	47.489	ug/l		99
48) Methyl methacrylate	7.696	41	163233	50.264	ug/l		98
49) 1,4-Dioxane	7.684	88	33800	1070.636	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	957168	265.854	ug/l		98
52) Toluene	8.720	92	371391	47.866	ug/l		100
53) t-1,3-Dichloropropene	8.982	75	200913	48.624	ug/l		98
54) cis-1,3-Dichloropropene	8.372	75	218646	46.750	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	141129	47.906	ug/l		99
56) Ethyl methacrylate	9.116	69	221781	51.063	ug/l		99
57) 1,3-Dichloropropane	9.311	76	241320	48.073	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	531511	256.065	ug/l		100
59) 2-Hexanone	9.433	43	663645	266.477	ug/l		99
60) Dibromochloromethane	9.519	129	167507	47.846	ug/l		100
61) 1,2-Dibromoethane	9.610	107	147057	48.409	ug/l		98
64) Tetrachloroethene	9.275	164	127728	48.383	ug/l		97
65) Chlorobenzene	10.079	112	407823	47.020	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	141328	48.203	ug/l		100
67) Ethyl Benzene	10.195	91	721774	48.350	ug/l		98
68) m/p-Xylenes	10.299	106	543135	97.575	ug/l		100
69) o-Xylene	10.640	106	260931	48.711	ug/l		99
70) Styrene	10.653	104	443043	48.950	ug/l		99
71) Bromoform	10.799	173	109693	49.800	ug/l	#	100
73) Isopropylbenzene	10.963	105	685100	48.136	ug/l		99
74) N-amyl acetate	10.842	43	283144	52.388	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	203458	48.688	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	198139	59.398	ug/l		90
77) Bromobenzene	11.195	156	162609	46.788	ug/l		99
78) n-propylbenzene	11.305	91	815287	47.963	ug/l		100
79) 2-Chlorotoluene	11.360	91	483943	47.097	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	559007	47.736	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	32344	43.382	ug/l		99
82) 4-Chlorotoluene	11.451	91	564800	46.629	ug/l		99
83) tert-Butylbenzene	11.713	119	559489	47.888	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	565346	48.276	ug/l		100
85) sec-Butylbenzene	11.890	105	706315	48.776	ug/l		100
86) p-Isopropyltoluene	12.006	119	588746	48.046	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	307335	46.289	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	308887	45.233	ug/l		99
89) n-Butylbenzene	12.329	91	548981	48.167	ug/l		100
90) Hexachloroethane	12.536	117	104319	48.527	ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	291404	46.240	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	41583	51.455	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	199368	47.190	ug/l		97
94) Hexachlorobutadiene	13.719	225	69851	46.449	ug/l		100
95) Naphthalene	13.774	128	614882	50.928	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	188409	47.311	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

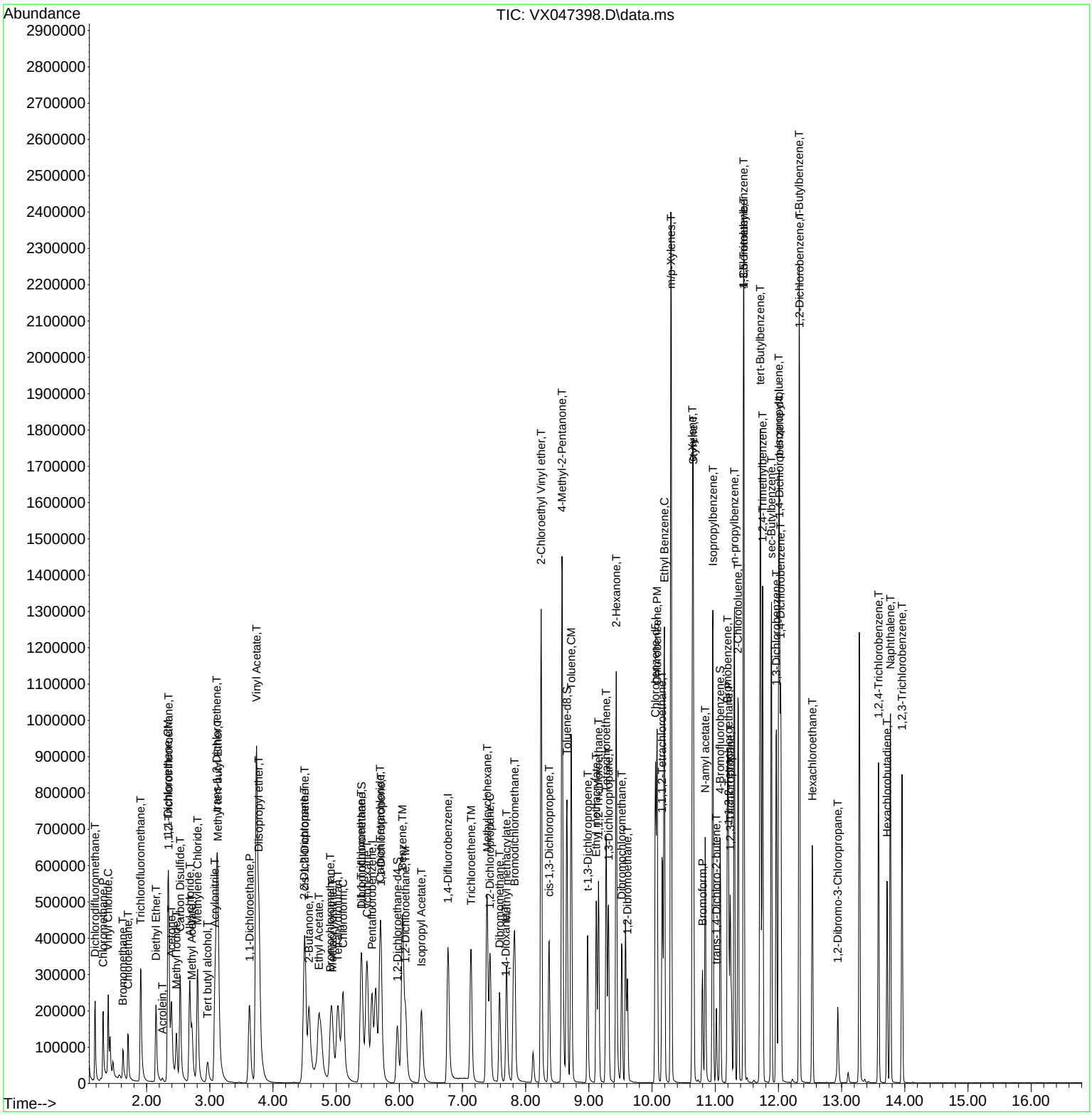
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

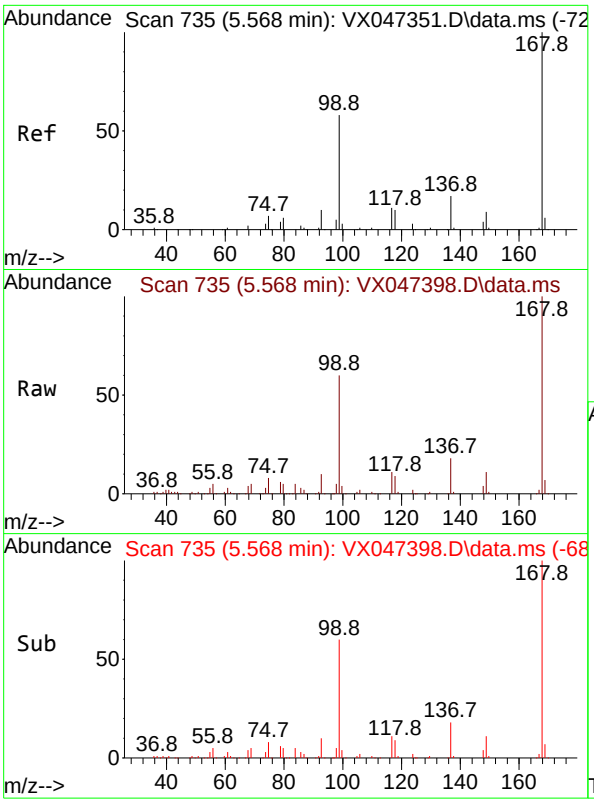
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081825\
Data File : VX047398.D
Acq On : 18 Aug 2025 20:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 19 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



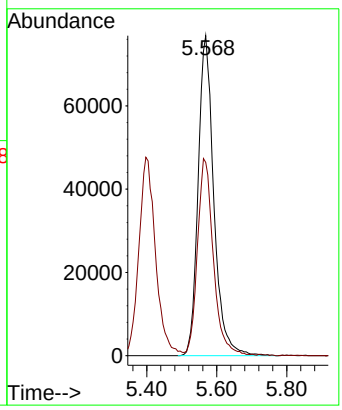


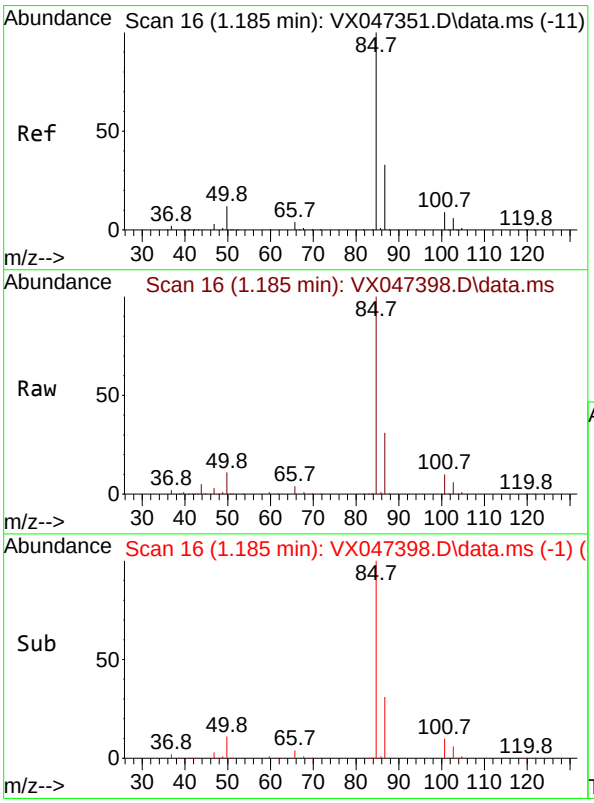
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 239104

Ion	Ratio	Lower	Upper
168	100		
99	60.4	47.9	71.9

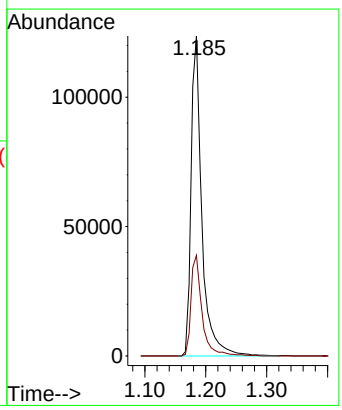


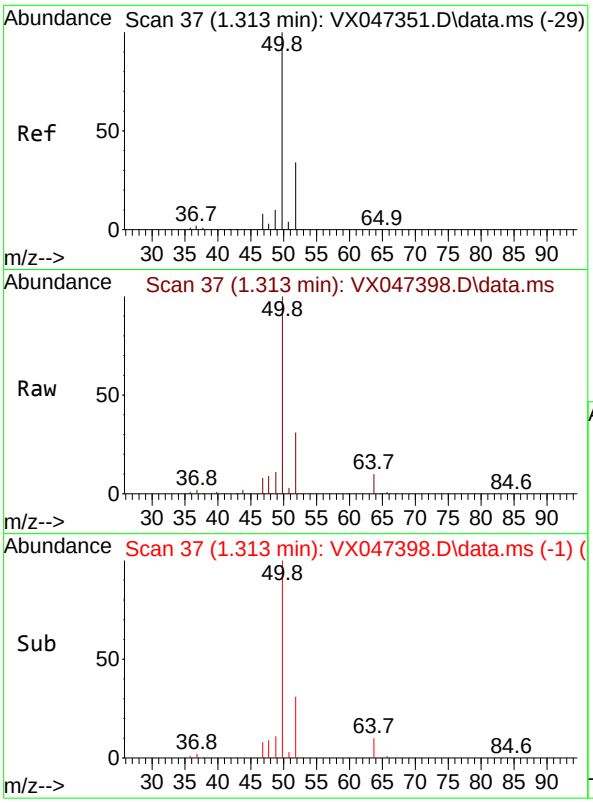


#2
Dichlorodifluoromethane
Concen: 49.690 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 85 Resp: 151457

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.4	49.1



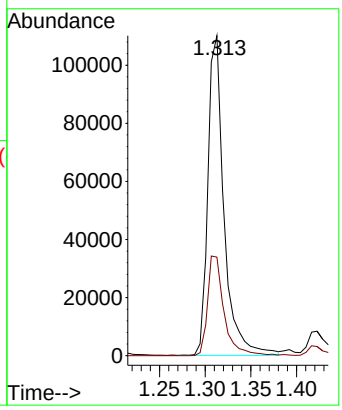


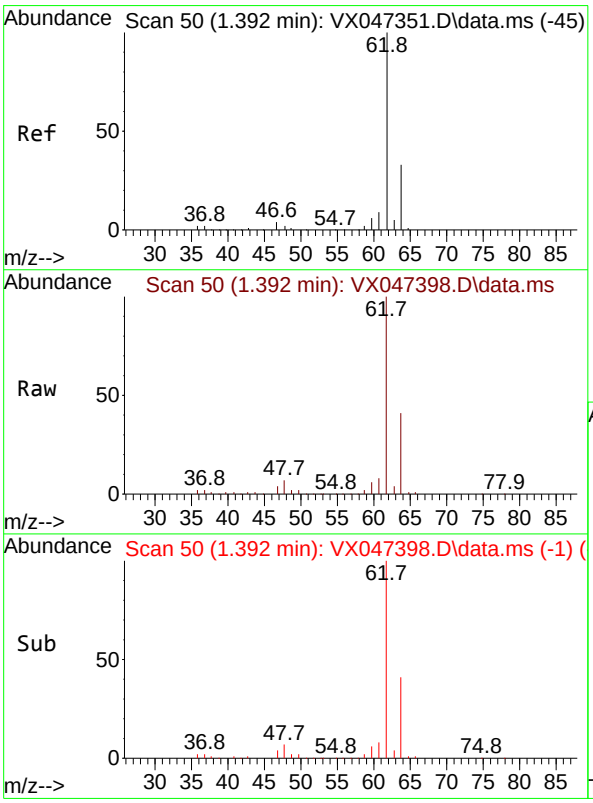
#3
Chloromethane
Concen: 49.117 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 134677

Ion	Ratio	Lower	Upper
50	100		
52	30.8	27.0	40.4

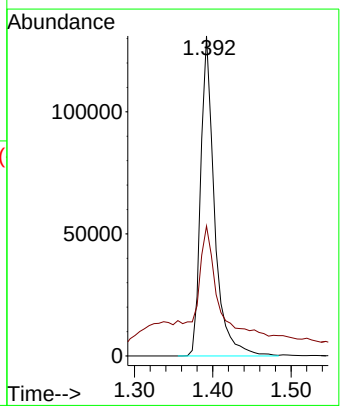


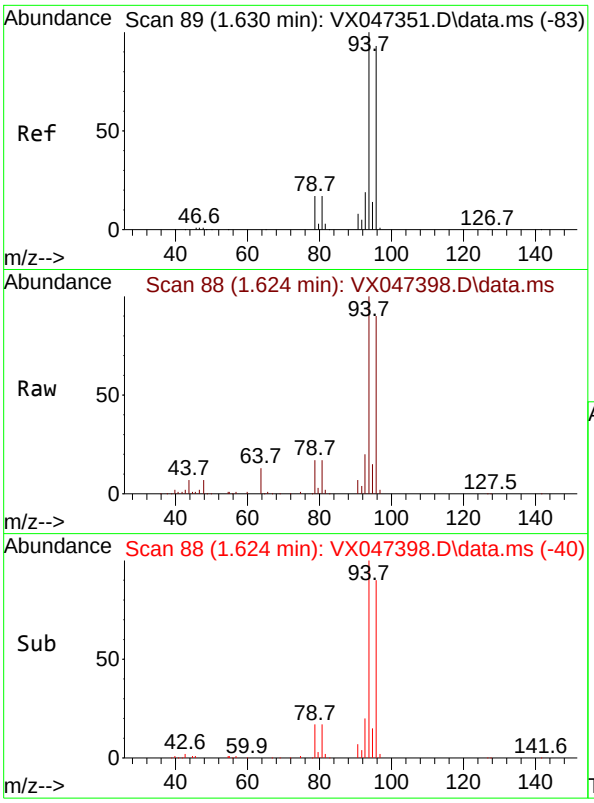


#4
Vinyl Chloride
Concen: 46.841 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 62 Resp: 161209

Ion	Ratio	Lower	Upper
62	100		
64	34.3	26.5	39.7



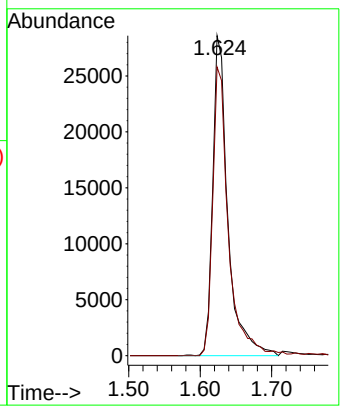


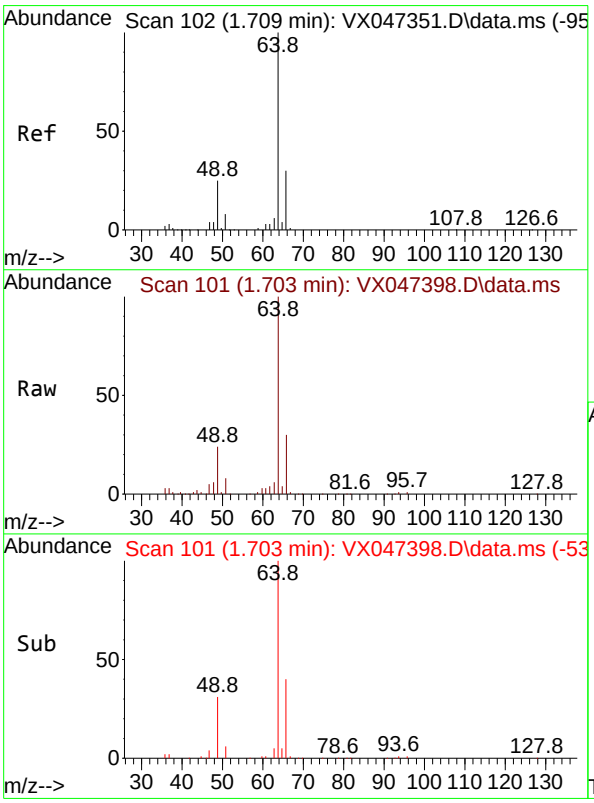
#5
Bromomethane
Concen: 30.200 ug/l
RT: 1.624 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 41982

Ion	Ratio	Lower	Upper
94	100		
96	90.2	74.7	112.1

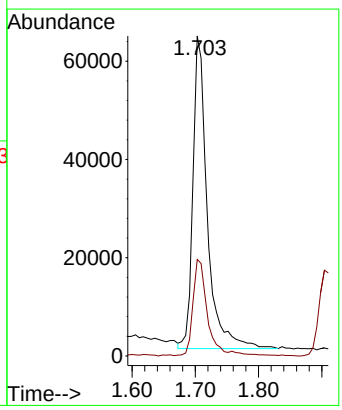


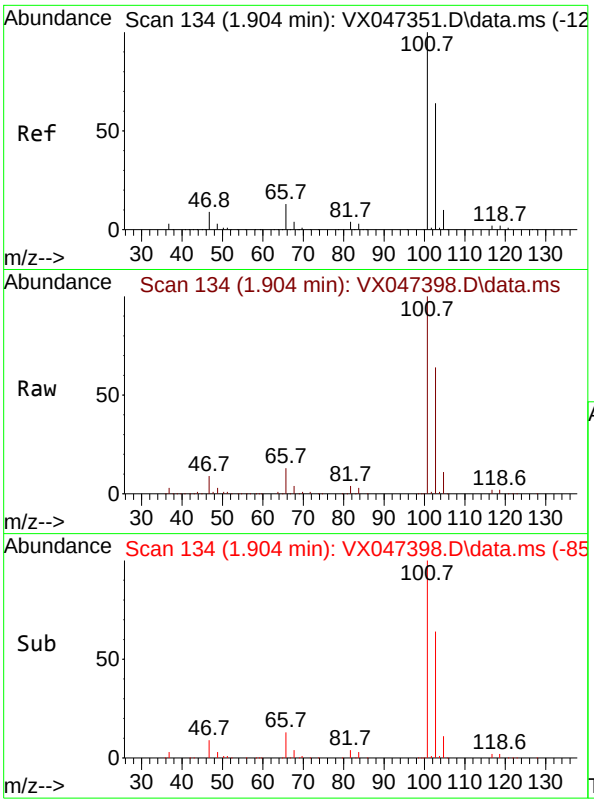


#6
Chloroethane
Concen: 47.923 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 64 Resp: 100911

Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.4	36.6



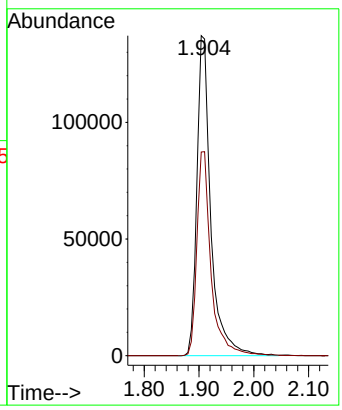


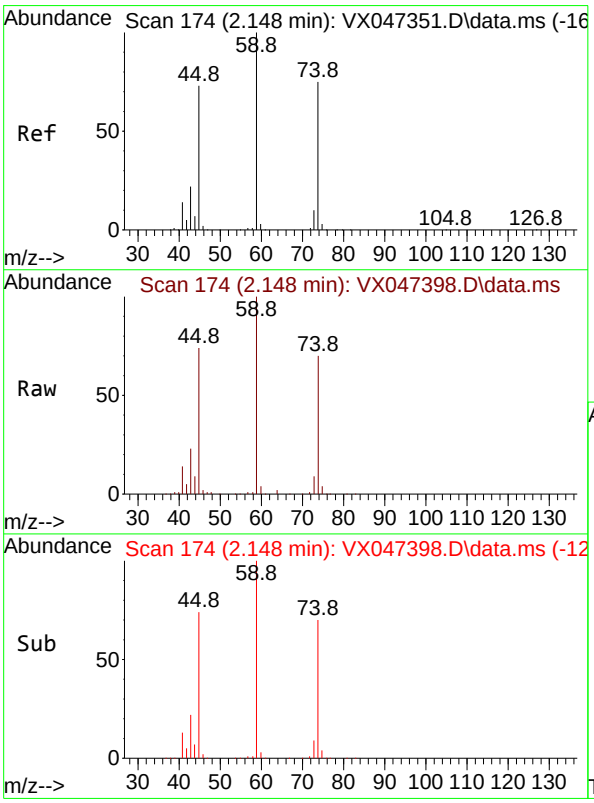
#7
Trichlorofluoromethane
Concen: 47.704 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 242847

Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.9	76.3

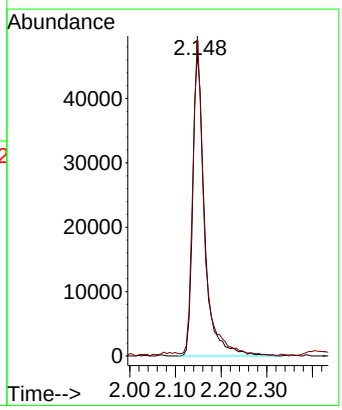


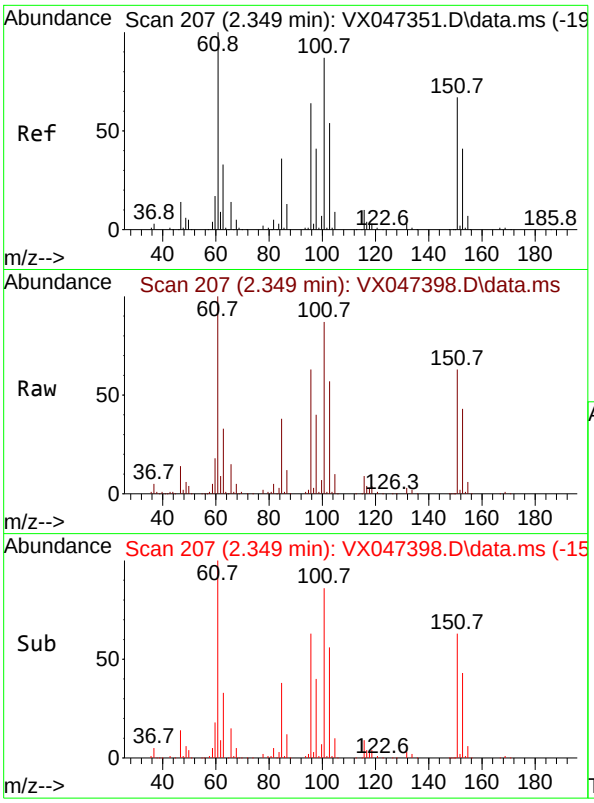


#8
Diethyl Ether
Concen: 47.576 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 74 Resp: 85280

Ion	Ratio	Lower	Upper
74	100		
45	101.8	51.3	154.0



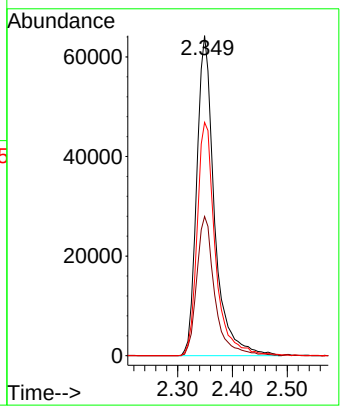


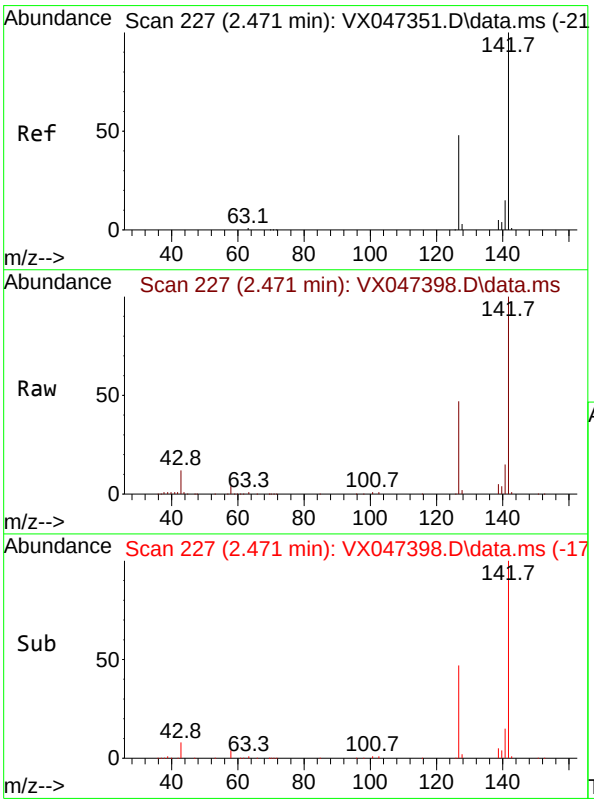
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.921 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 144462

Ion	Ratio	Lower	Upper
101	100		
85	44.4	34.3	51.5
151	74.8	59.2	88.8

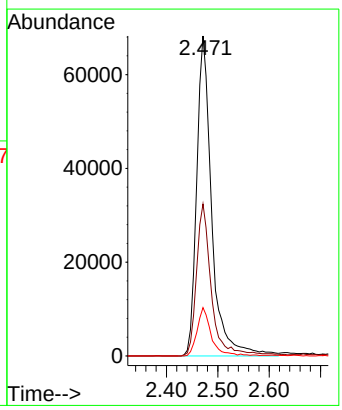


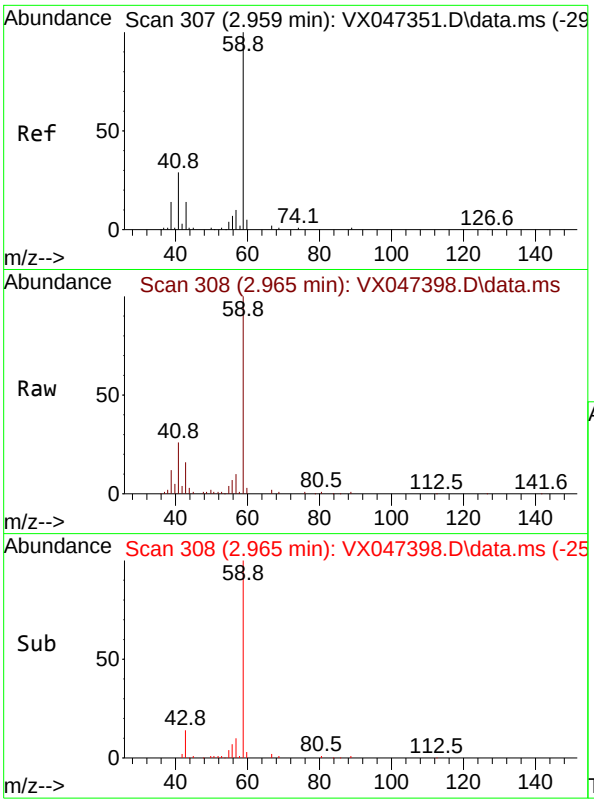


#10
Methyl Iodide
Concen: 27.512 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:142 Resp: 139225

Ion	Ratio	Lower	Upper
142	100		
127	47.3	36.1	54.1
141	14.3	11.1	16.7



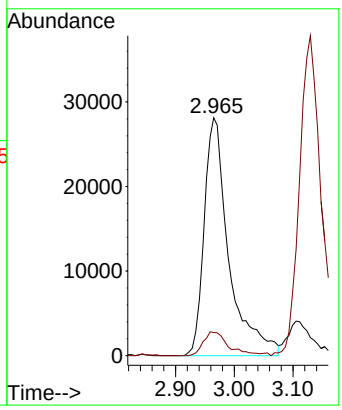


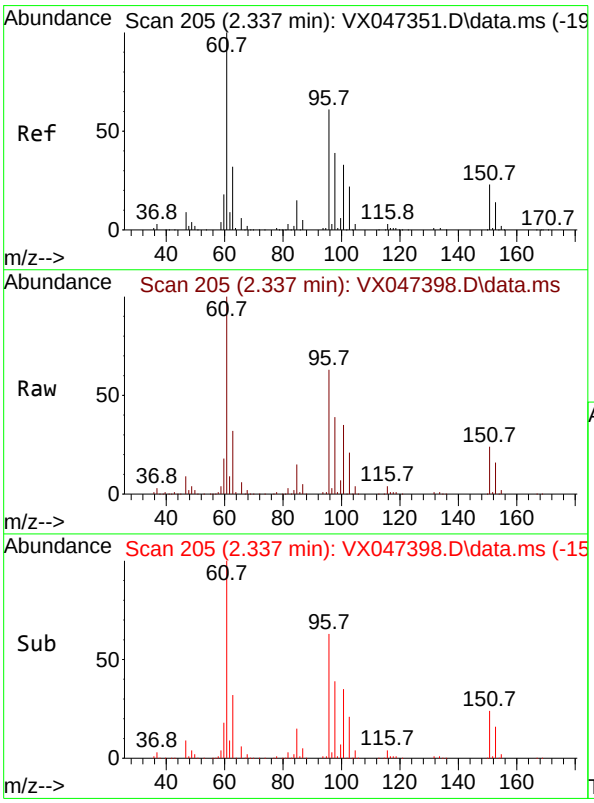
#11
Tert butyl alcohol
Concen: 282.575 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 82261

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5

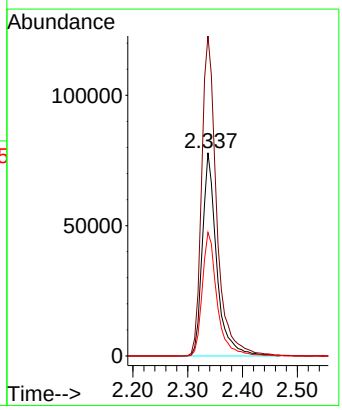


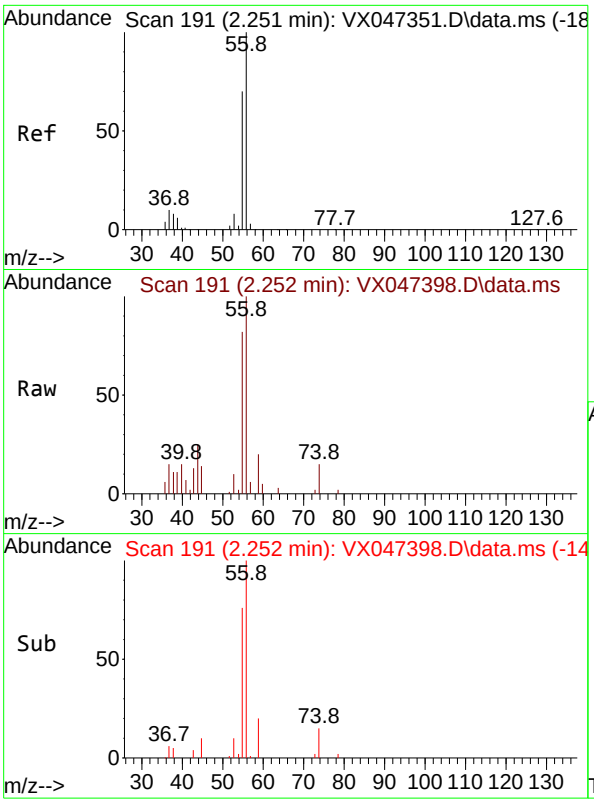


#12
1,1-Dichloroethene
Concen: 47.039 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 96 Resp: 141611

Ion	Ratio	Lower	Upper
96	100		
61	157.5	132.2	198.2
98	62.2	51.2	76.8



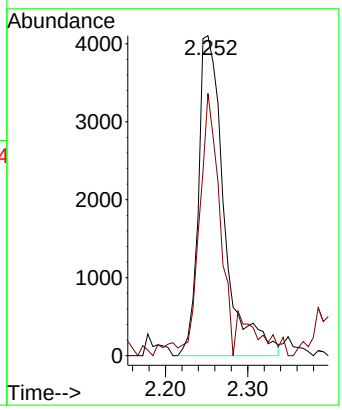


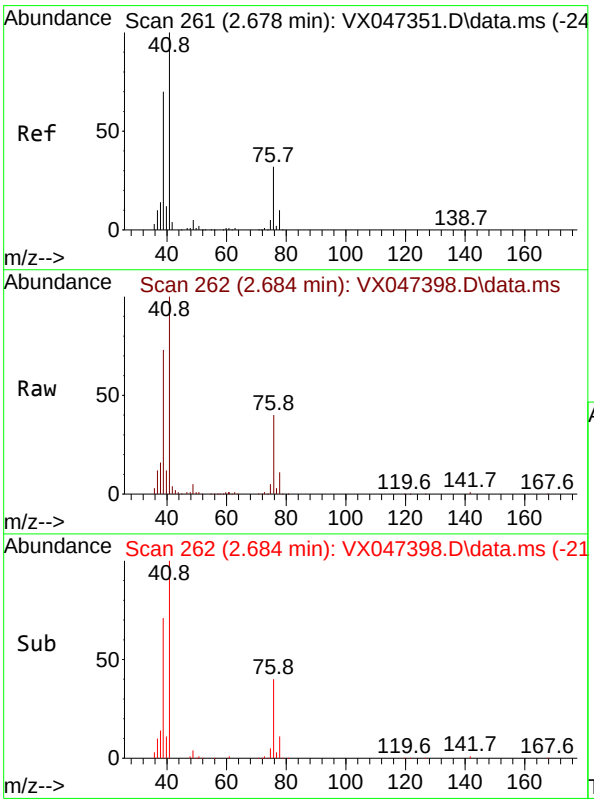
#13
Acrolein
Concen: 14.590 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 8966

Ion	Ratio	Lower	Upper
56	100		
55	62.5	55.5	83.3

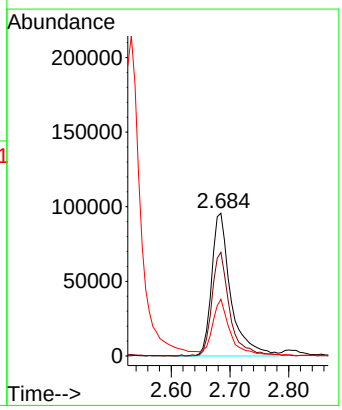


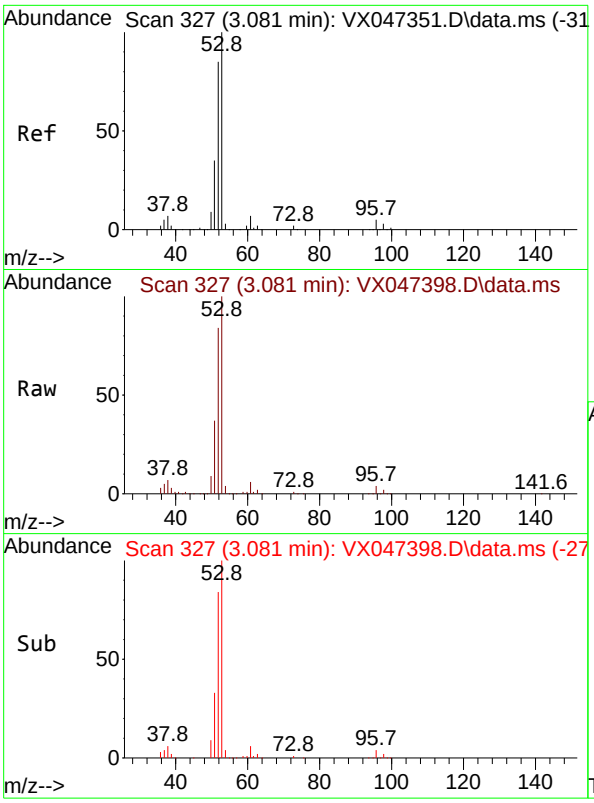


#14
Allyl chloride
Concen: 41.586 ug/l
RT: 2.684 min Scan# 262
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 41 Resp: 217448

Ion	Ratio	Lower	Upper
41	100		
39	67.6	54.6	81.8
76	37.7	27.6	41.4



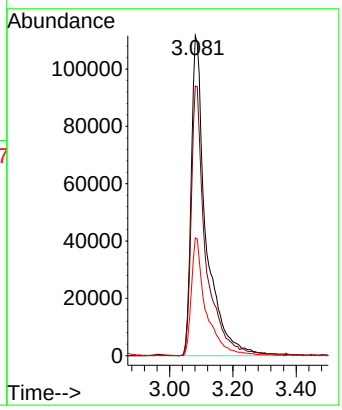


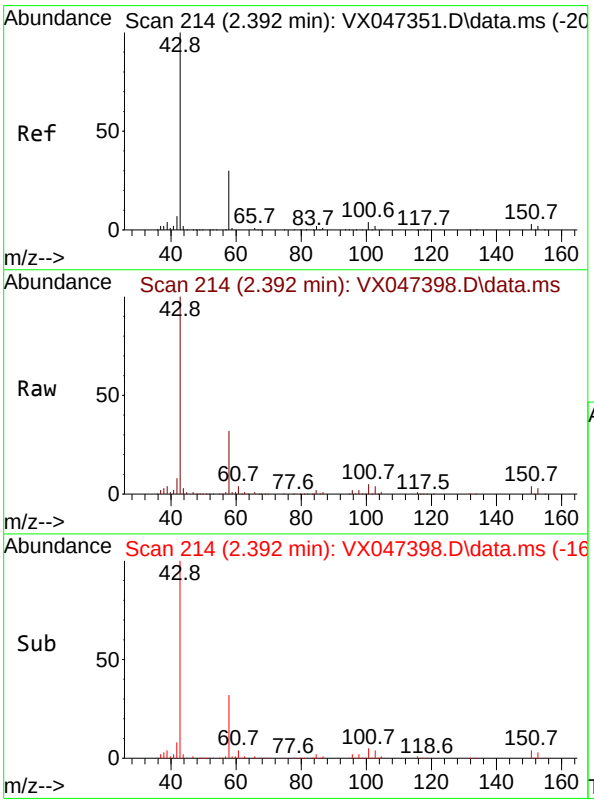
#15
Acrylonitrile
Concen: 258.742 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 363973

Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.8	98.6
51	36.5	28.2	42.2

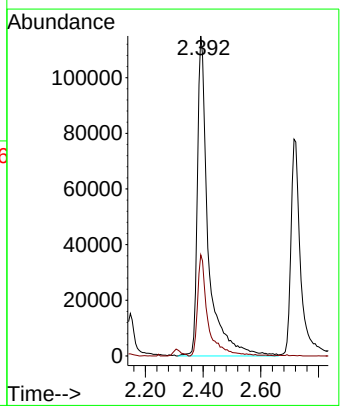


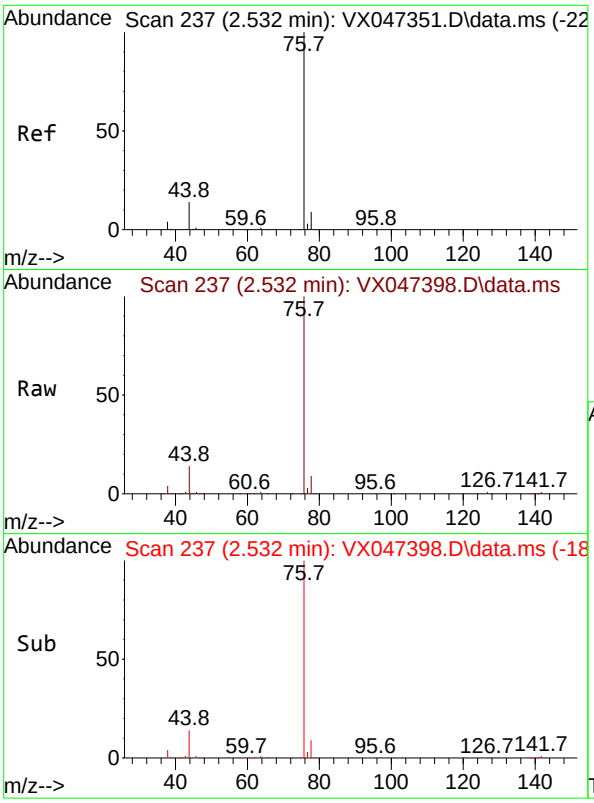


#16
Acetone
Concen: 238.203 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 43 Resp: 299617

Ion	Ratio	Lower	Upper
43	100		
58	31.5	24.8	37.2



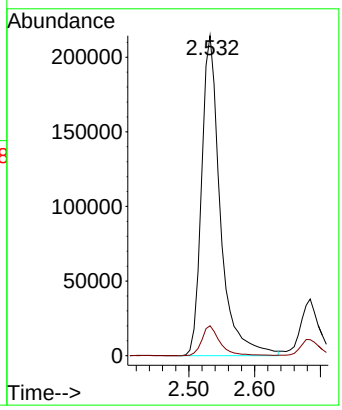


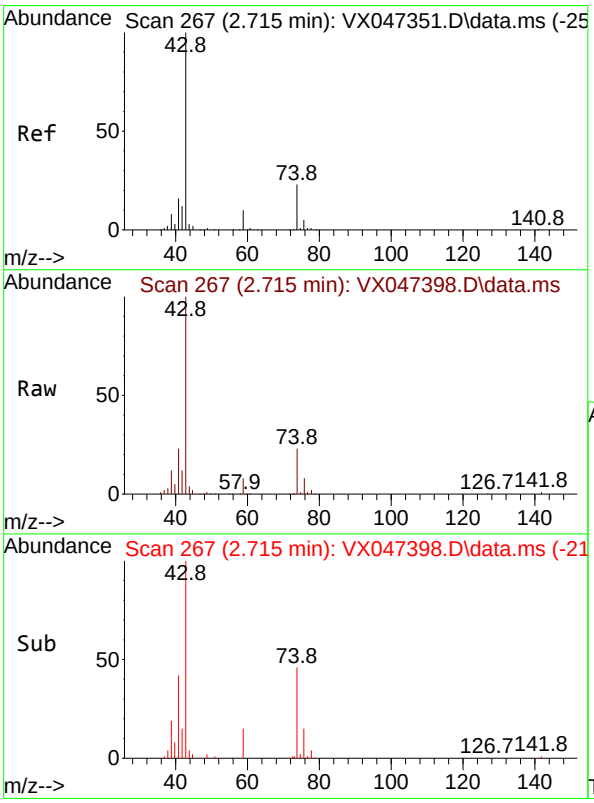
#17
Carbon Disulfide
Concen: 46.840 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 425517

Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.2	10.8

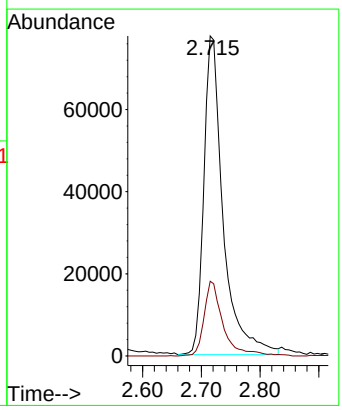


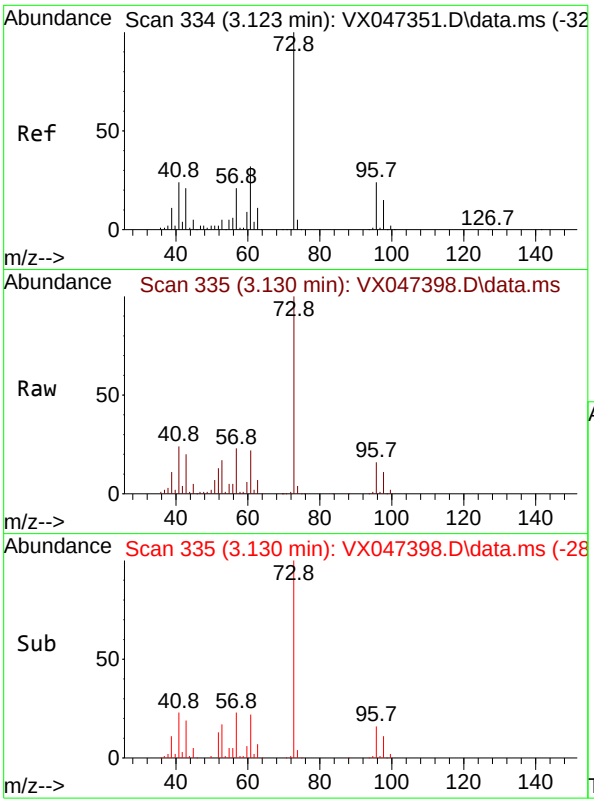


#18
Methyl Acetate
Concen: 54.297 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 43 Resp: 176982

Ion	Ratio	Lower	Upper
43	100		
74	23.2	18.4	27.6



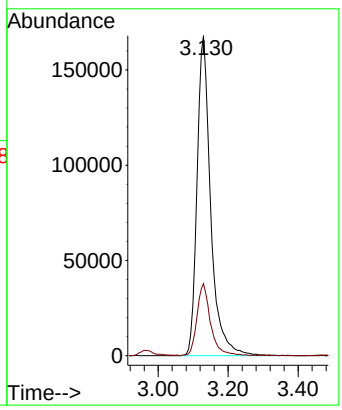


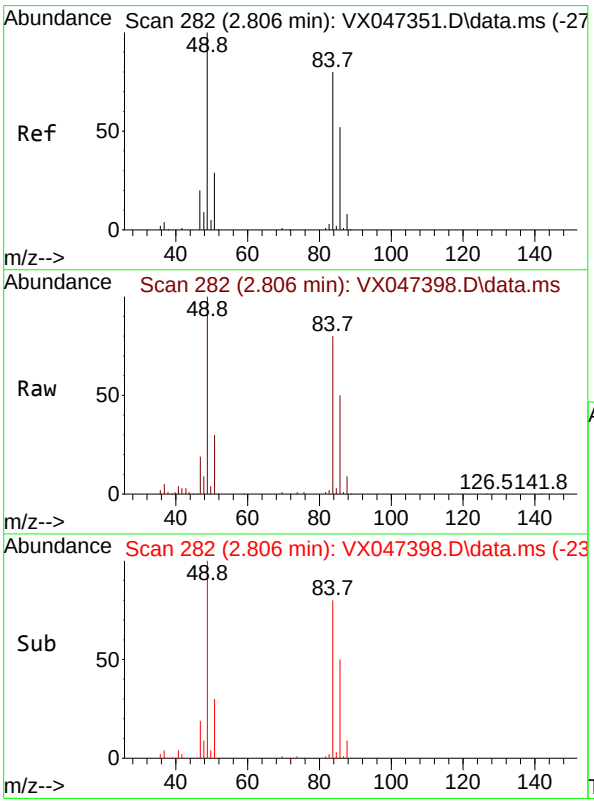
#19
Methyl tert-butyl Ether
Concen: 49.516 ug/l
RT: 3.130 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 453492

Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.0	25.6

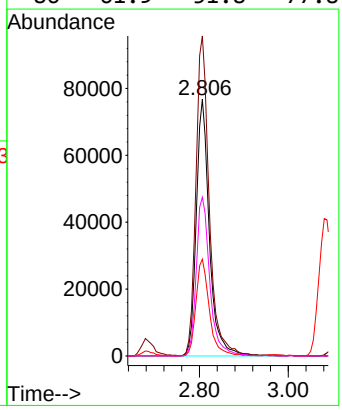


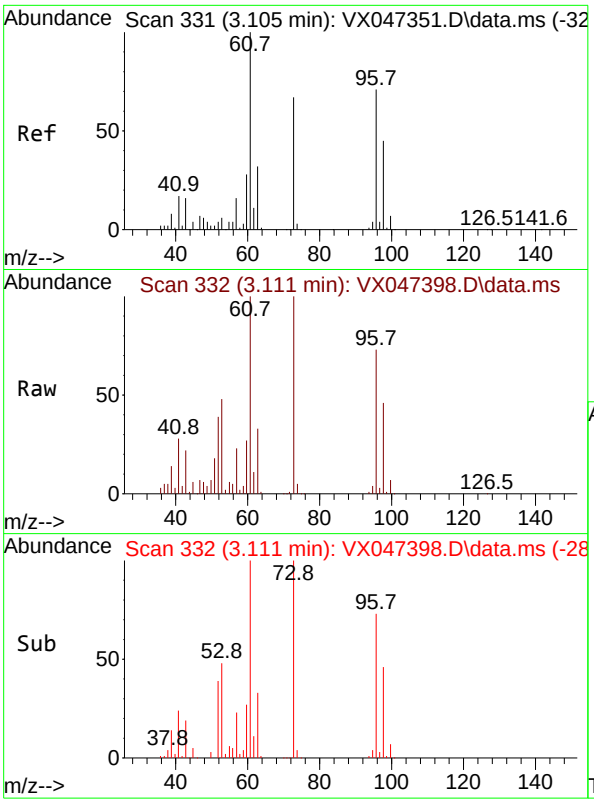


#20
Methylene Chloride
Concen: 47.329 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 84 Resp: 157641

Ion	Ratio	Lower	Upper
84	100		
49	124.6	100.1	150.1
51	37.7	29.5	44.3
86	61.9	51.8	77.8



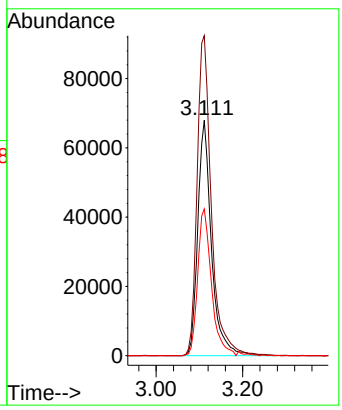


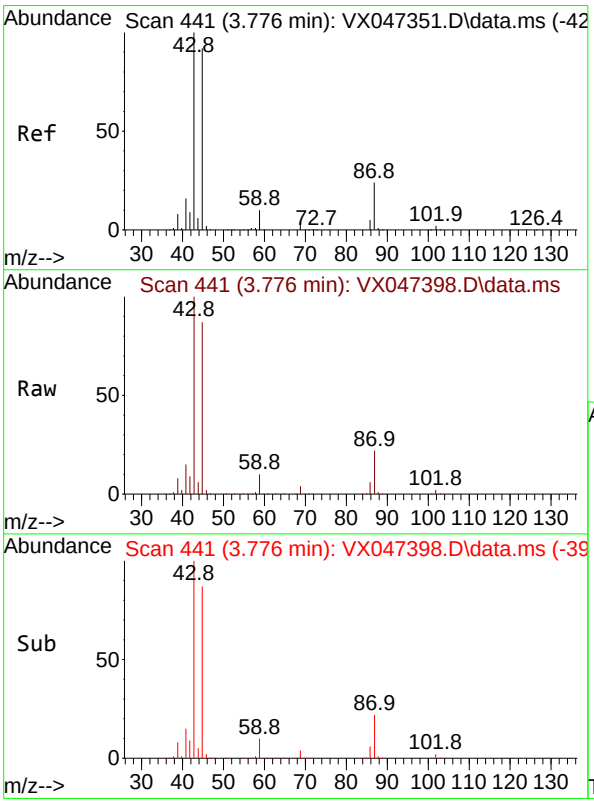
#21
trans-1,2-Dichloroethene
Concen: 46.767 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 149432

Ion	Ratio	Lower	Upper
96	100		
61	136.0	112.6	169.0
98	64.3	50.9	76.3

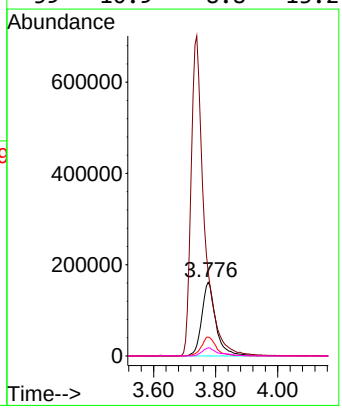


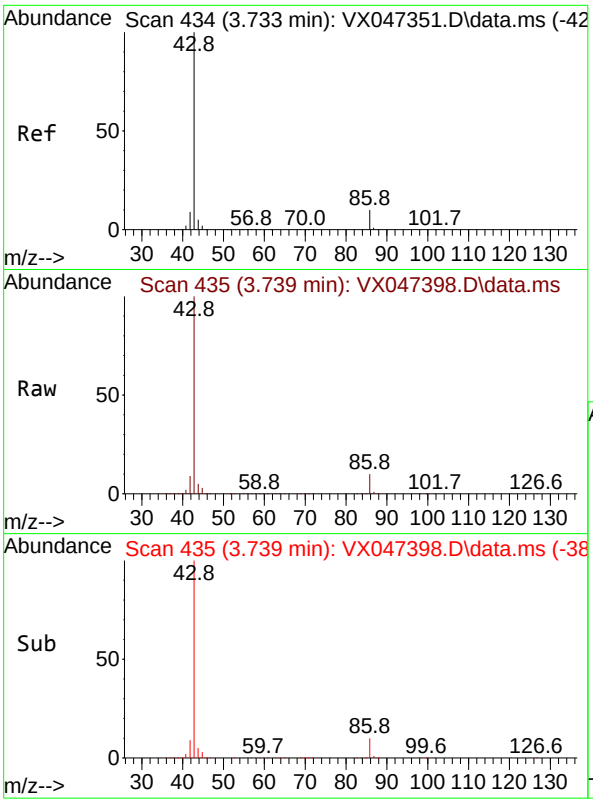


#22
Diisopropyl ether
Concen: 49.473 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 45 Resp: 511346

Ion	Ratio	Lower	Upper
45	100		
43	114.4	86.8	130.2
87	25.6	20.4	30.6
59	10.9	8.8	13.2



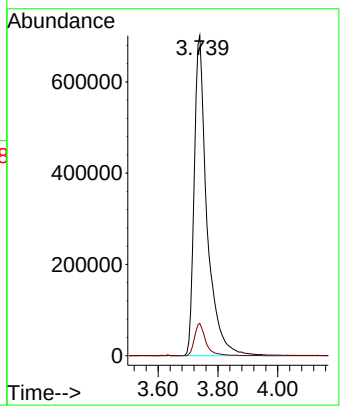


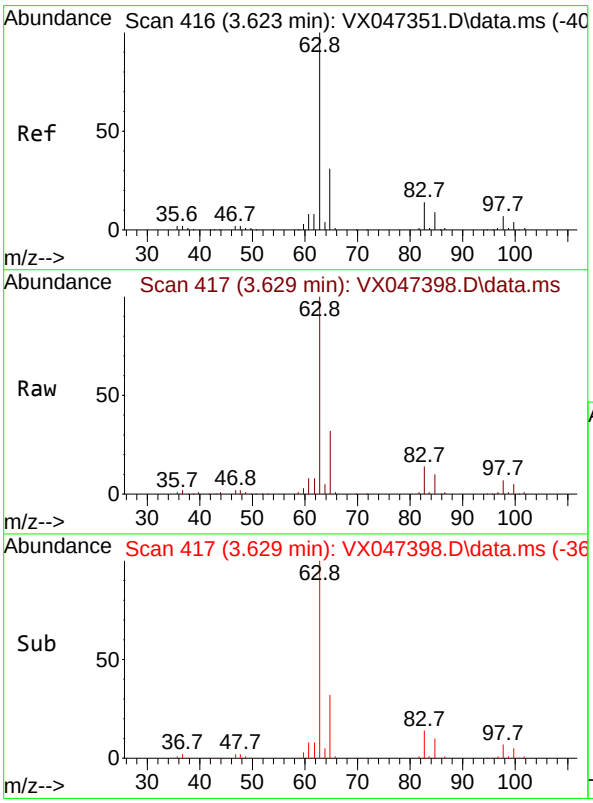
#23
Vinyl Acetate
Concen: 246.075 ug/l
RT: 3.739 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 2084668

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.9	11.9

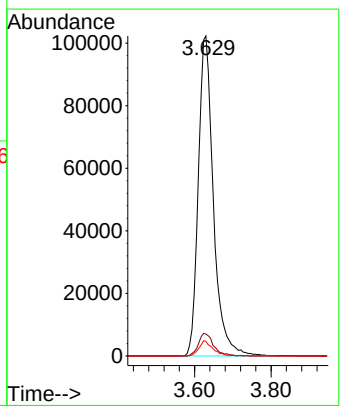


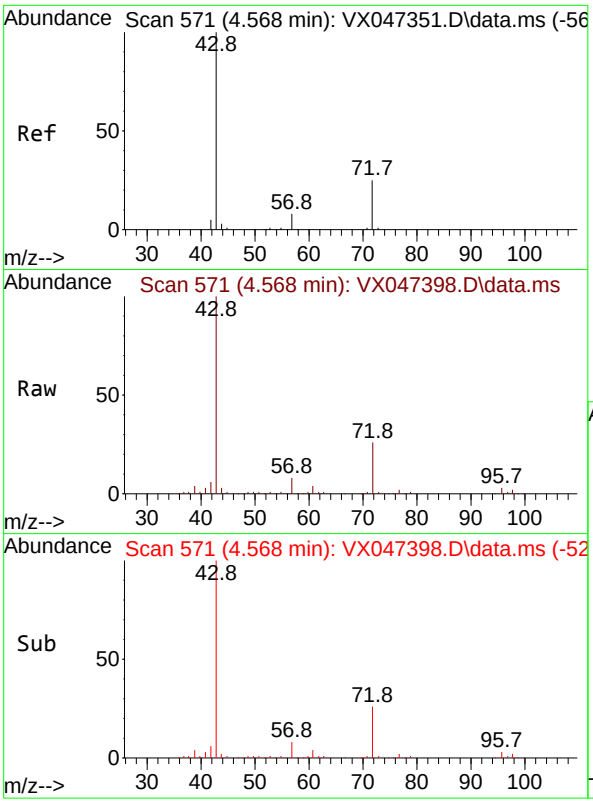


#24
1,1-Dichloroethane
Concen: 47.957 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 63 Resp: 280167

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.3	9.9
100	4.5	2.1	6.3



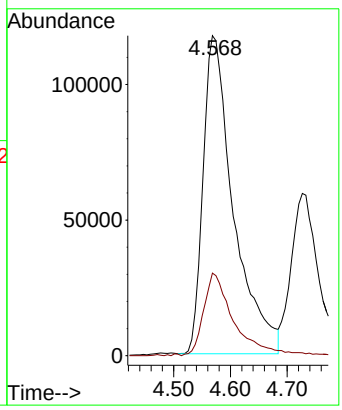


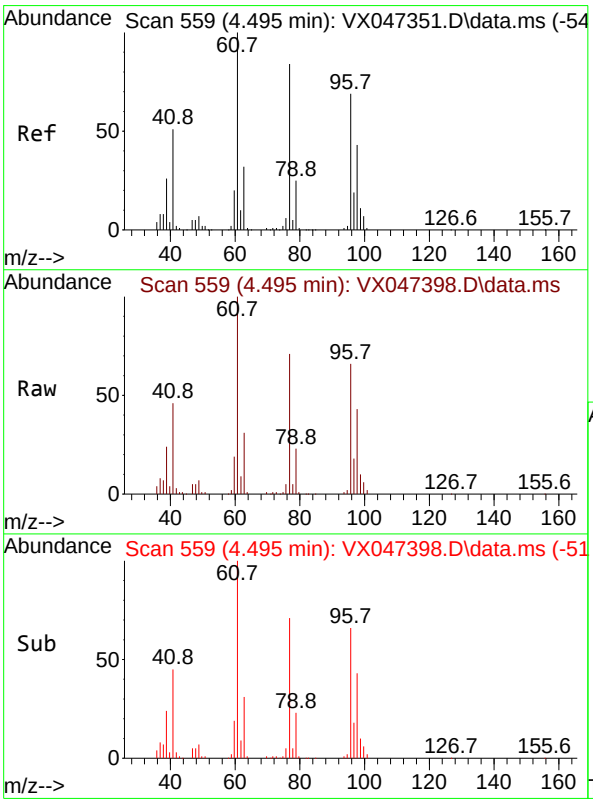
#25
2-Butanone
Concen: 265.075 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 436669

Ion	Ratio	Lower	Upper
43	100		
72	25.5	19.8	29.8

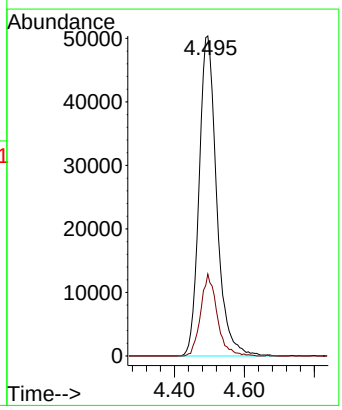


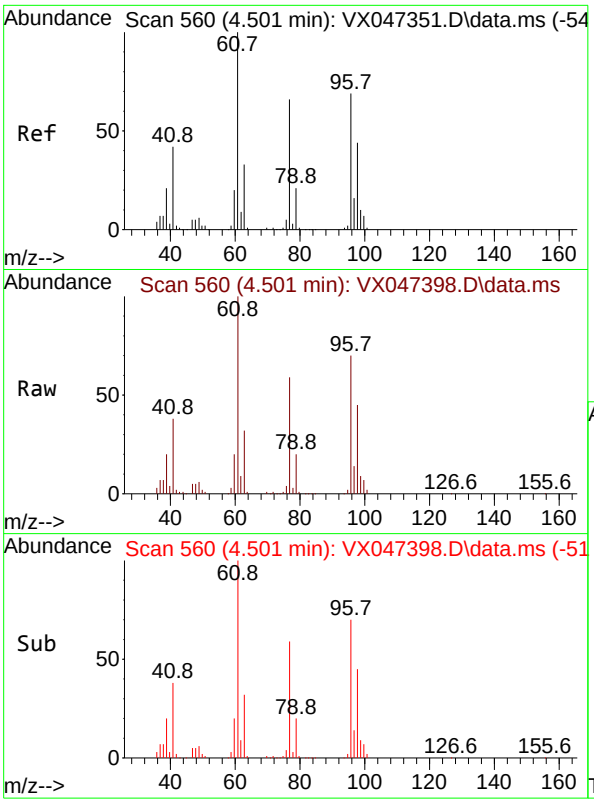


#26
2,2-Dichloropropane
Concen: 39.808 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 77 Resp: 175530

Ion	Ratio	Lower	Upper
77	100		
97	24.0	11.4	34.1



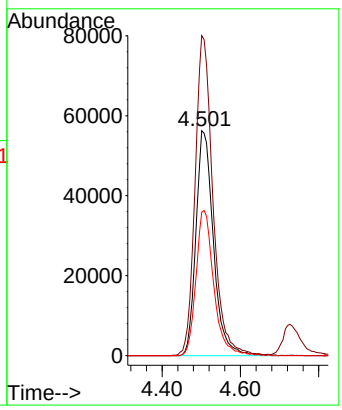


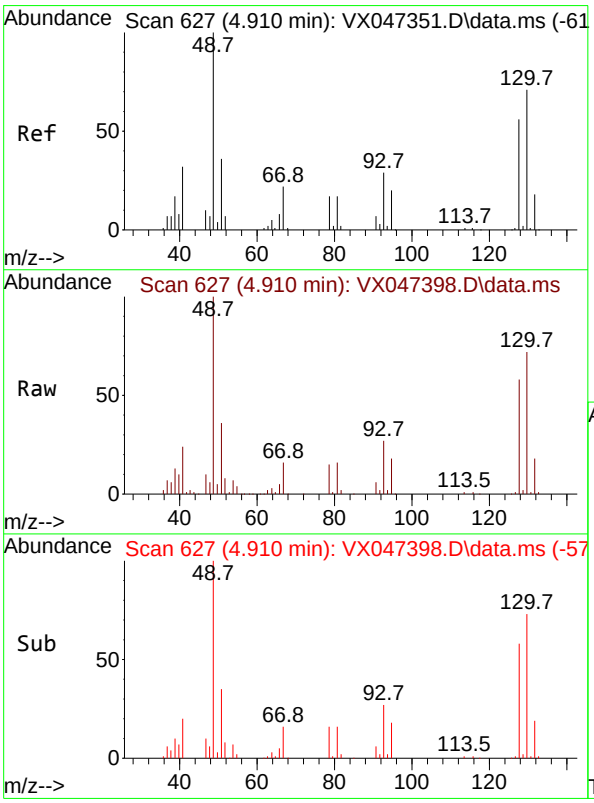
#27
cis-1,2-Dichloroethene
Concen: 47.114 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 175340

Ion	Ratio	Lower	Upper
96	100		
61	144.5	0.0	296.6
98	65.5	0.0	130.4

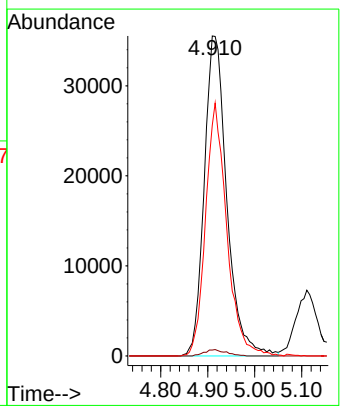


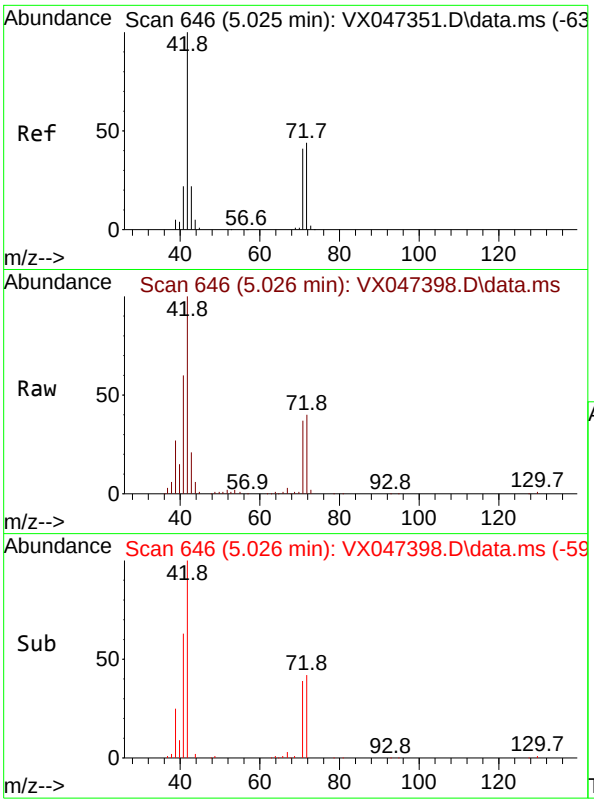


#28
Bromochloromethane
Concen: 48.810 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 49 Resp: 118660

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	74.3	59.8	89.6



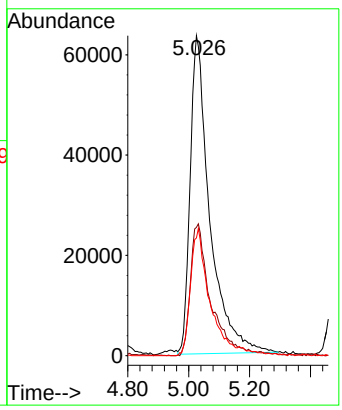


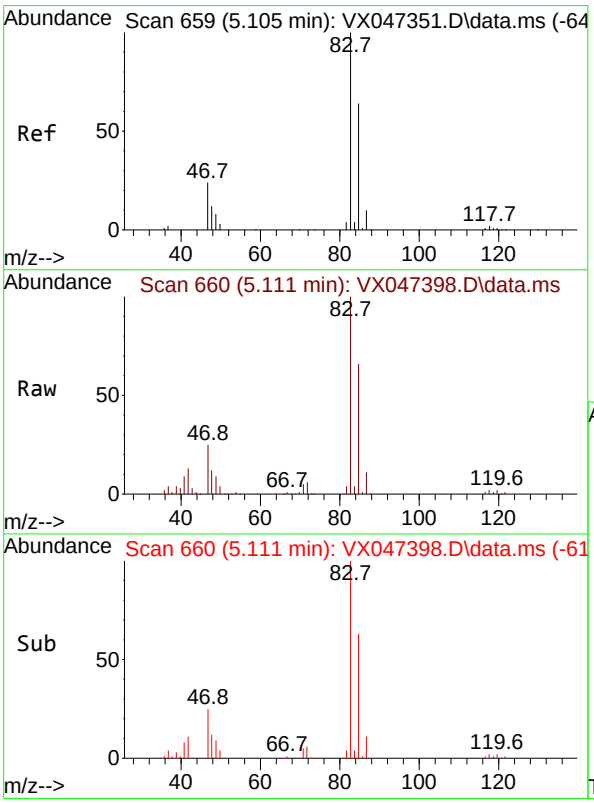
#29
Tetrahydrofuran
Concen: 266.507 ug/l
RT: 5.026 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 283761

Ion	Ratio	Lower	Upper
42	100		
72	42.9	34.6	51.8
71	38.1	32.6	49.0

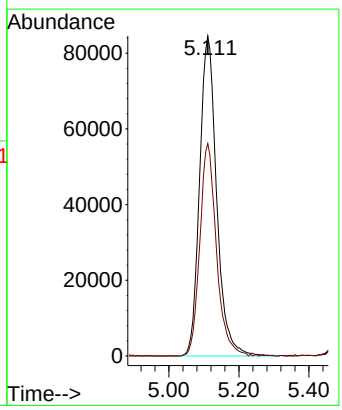


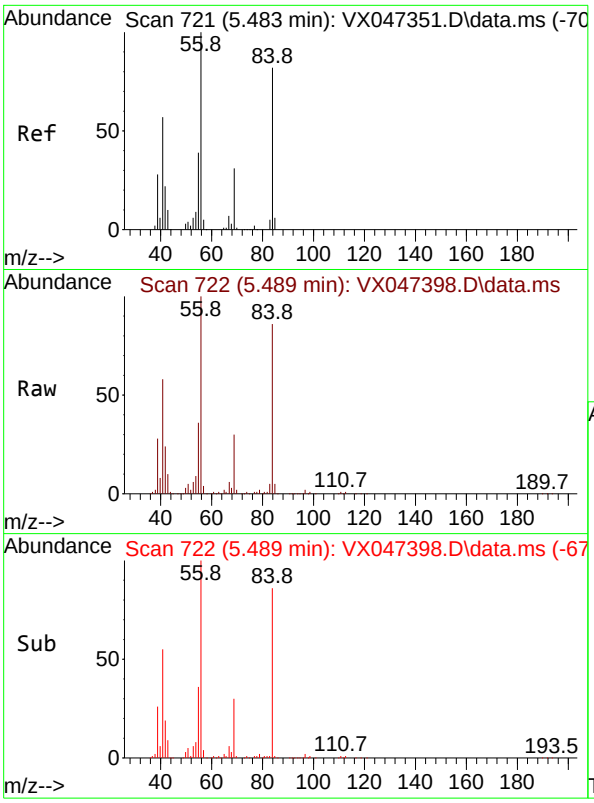


#30
Chloroform
Concen: 47.982 ug/l
RT: 5.111 min Scan# 660
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 83 Resp: 286078

Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.2	76.8



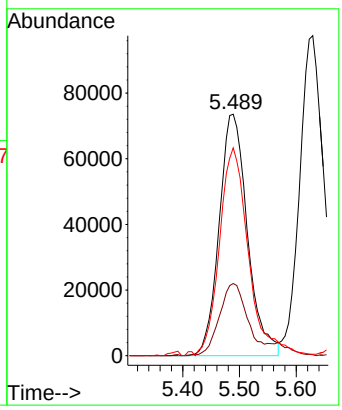


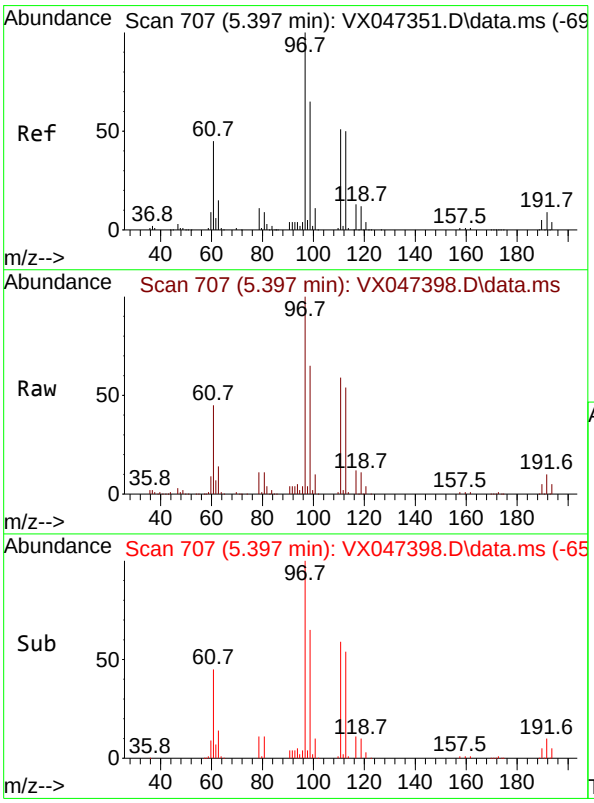
#31
Cyclohexane
Concen: 47.287 ug/l
RT: 5.489 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 254659

Ion	Ratio	Lower	Upper
56	100		
69	29.4	24.3	36.5
84	84.2	65.3	97.9

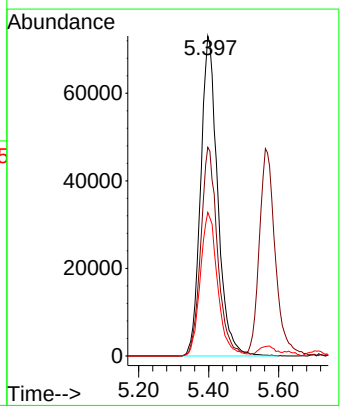


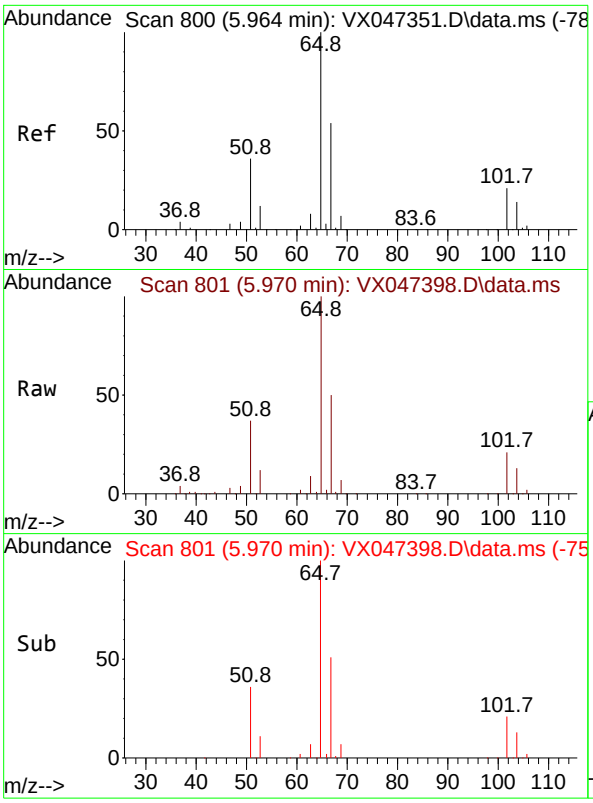


#32
1,1,1-Trichloroethane
Concen: 47.909 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 97 Resp: 245866

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.4	77.0
61	45.9	35.7	53.5



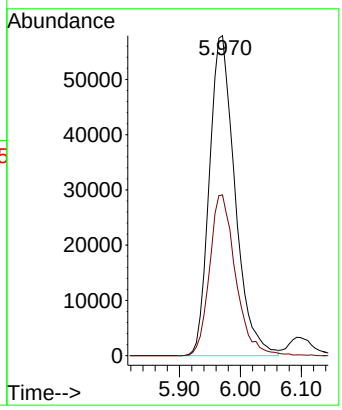


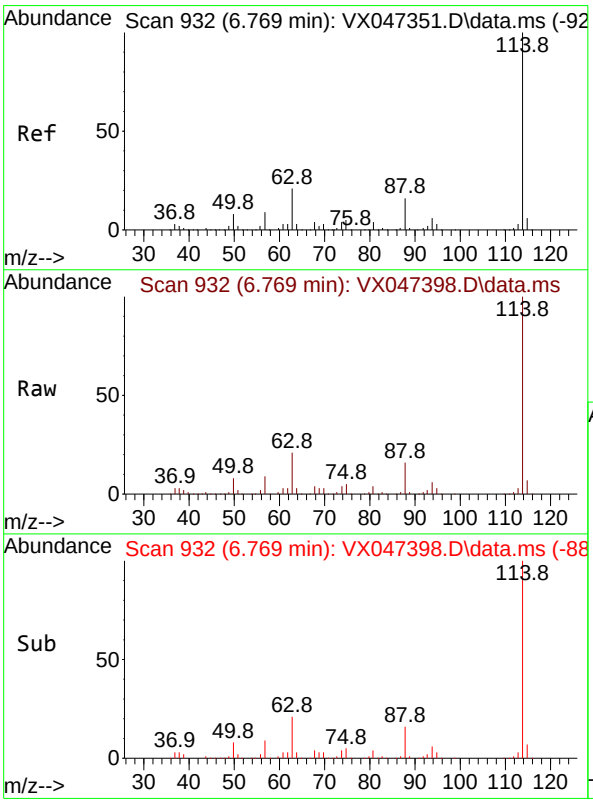
#33
1,2-Dichloroethane-d4
Concen: 50.620 ug/l
RT: 5.970 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 169393

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	106.0

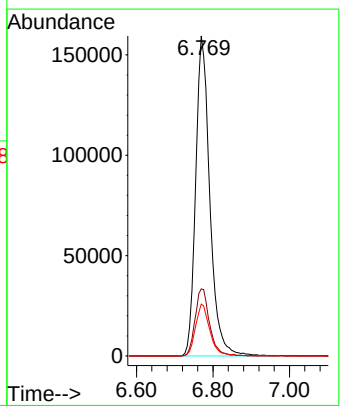


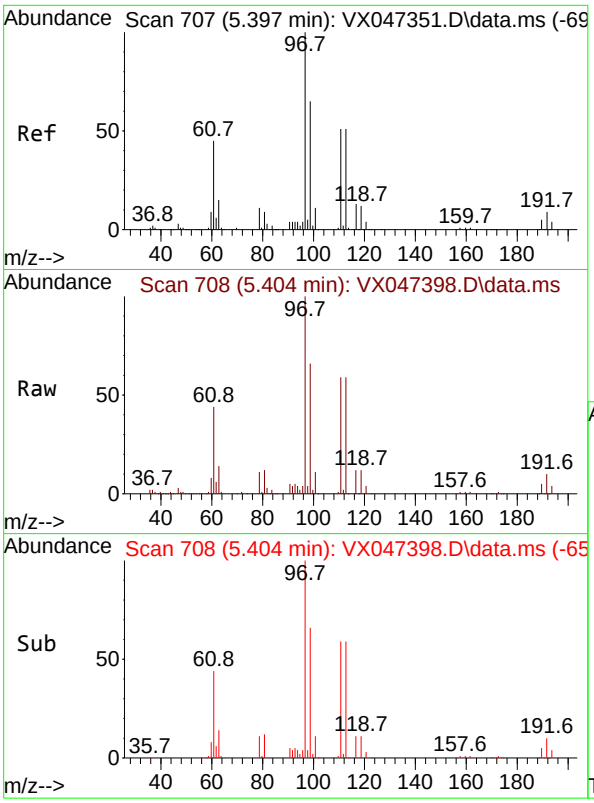


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:114 Resp: 409468

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.4
88	16.2	0.0	33.0



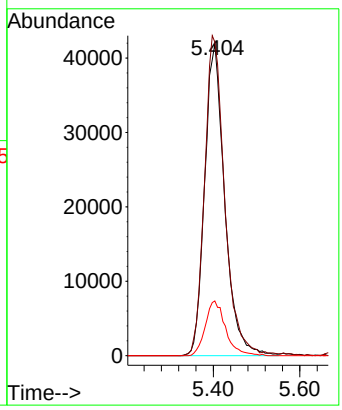


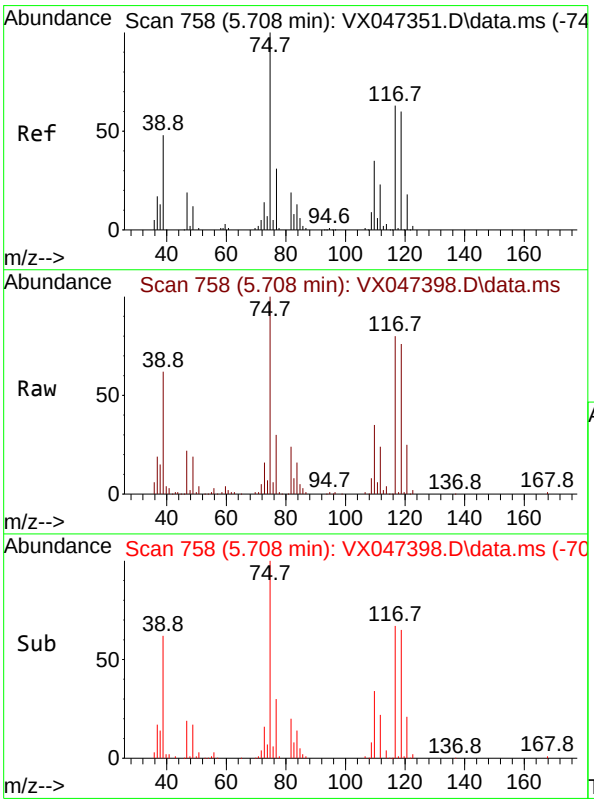
#35
Dibromofluoromethane
Concen: 50.669 ug/l
RT: 5.404 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 134653

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.4	122.2
192	17.8	14.1	21.1

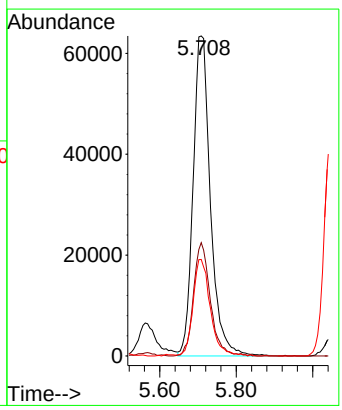


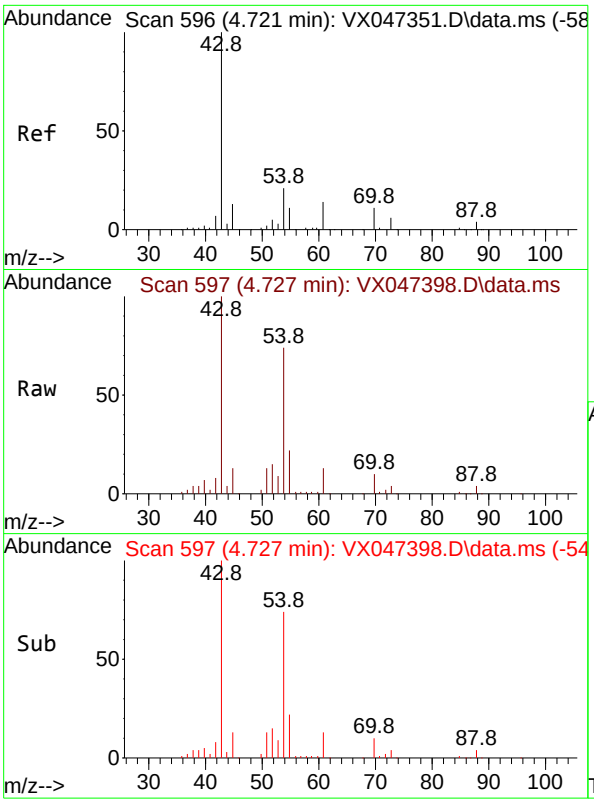


#36
1,1-Dichloropropene
Concen: 47.627 ug/l
RT: 5.708 min Scan# 758
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 75 Resp: 199797

Ion	Ratio	Lower	Upper
75	100		
110	34.3	17.4	52.2
77	30.1	24.4	36.6



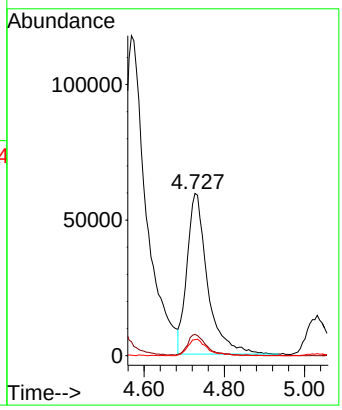


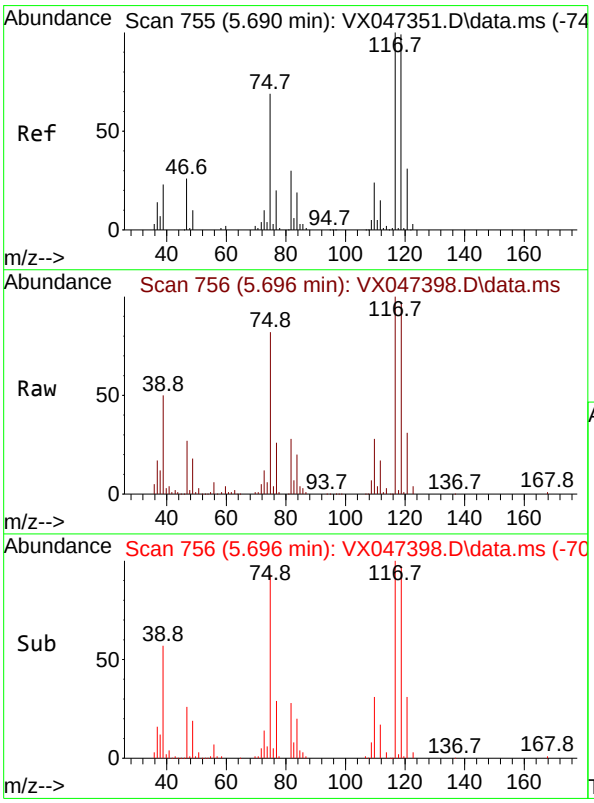
#37
Ethyl Acetate
Concen: 48.337 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 210513

Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.4	14.2
70	9.7	7.0	10.6

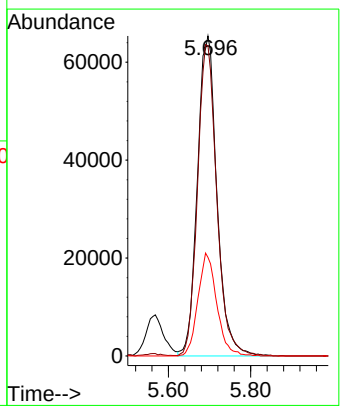


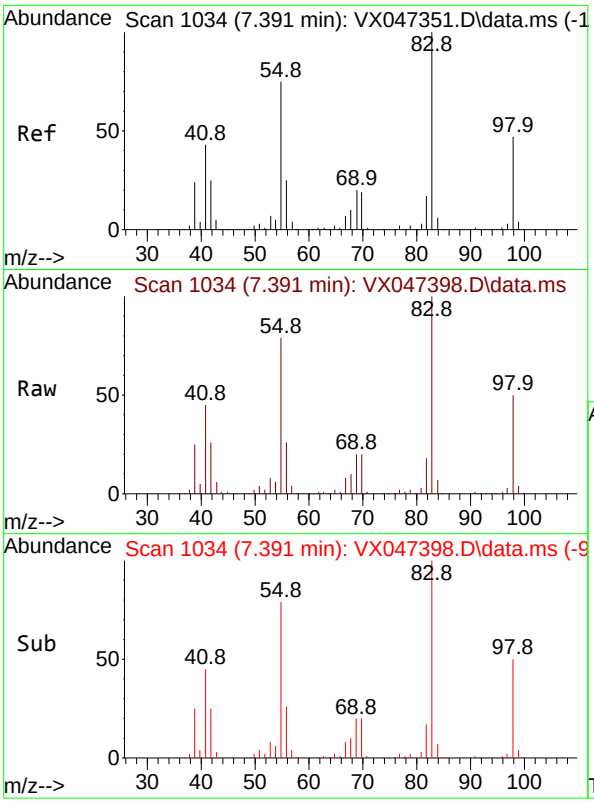


#38
Carbon Tetrachloride
Concen: 47.116 ug/l
RT: 5.696 min Scan# 756
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:117 Resp: 215992

Ion	Ratio	Lower	Upper
117	100		
119	97.0	78.5	117.7
121	30.8	24.7	37.1



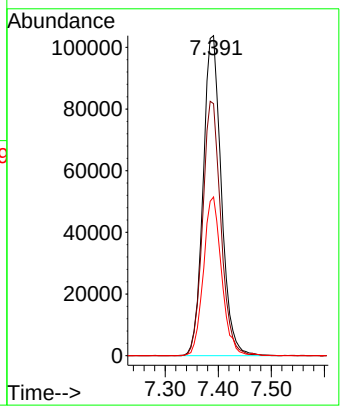


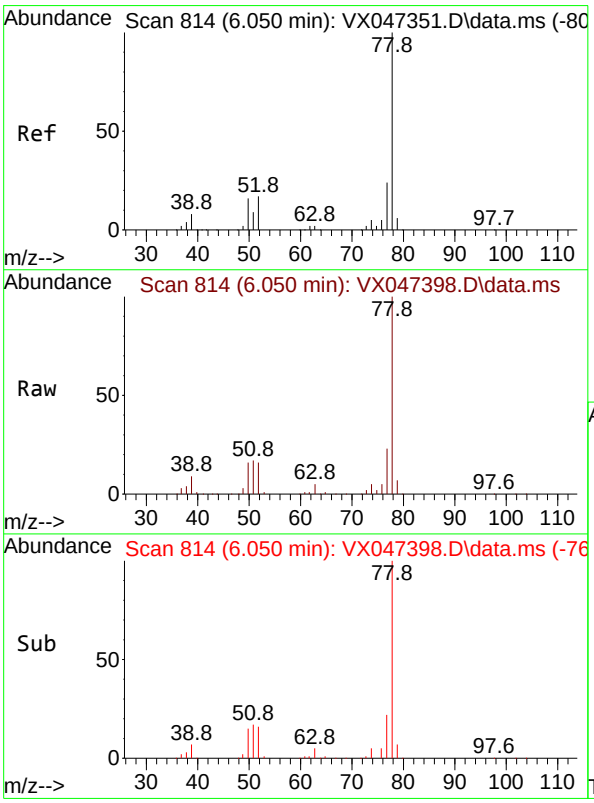
#39
Methylcyclohexane
Concen: 47.227 ug/l
RT: 7.391 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 247122

Ion	Ratio	Lower	Upper
83	100		
55	78.8	60.0	90.0
98	49.6	37.2	55.8

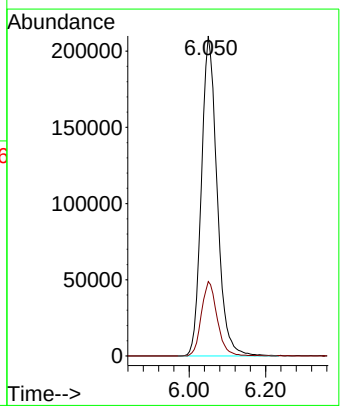


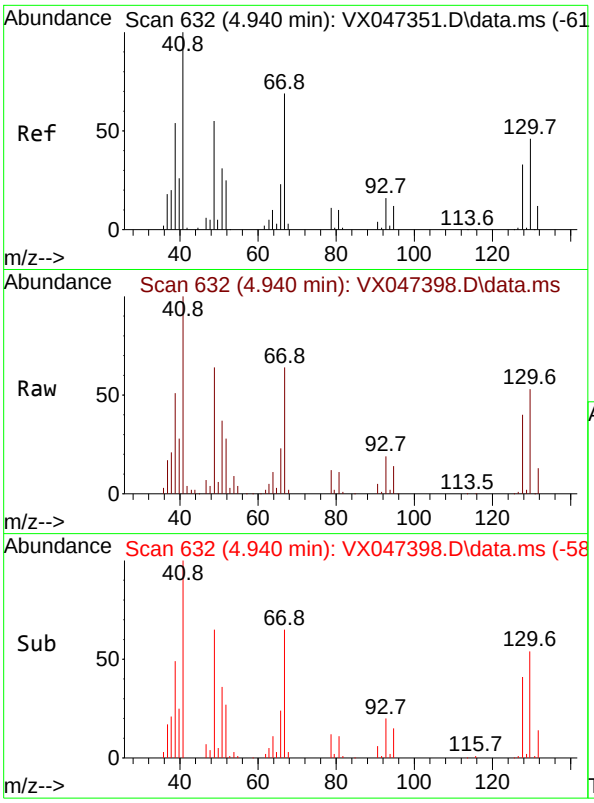


#40
Benzene
Concen: 47.641 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 78 Resp: 598209

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.4



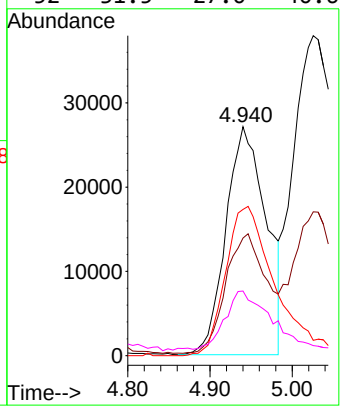


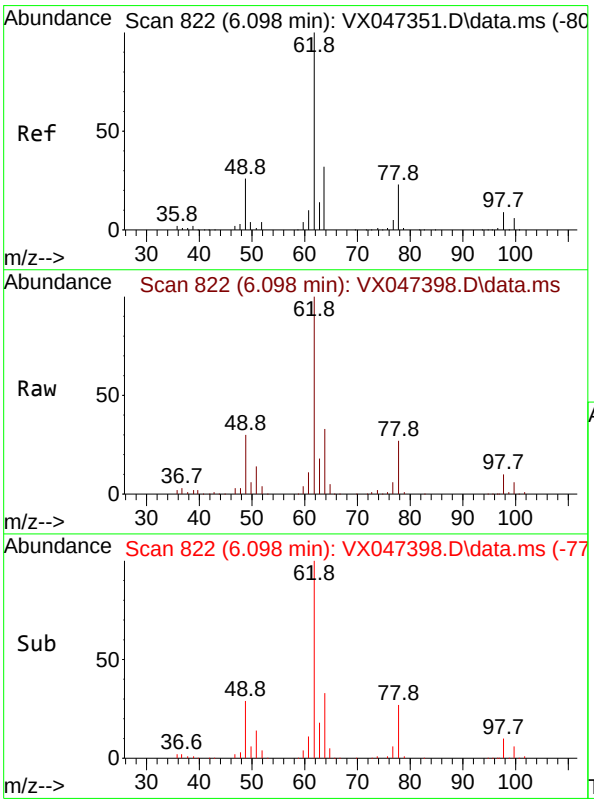
#41
Methacrylonitrile
Concen: 50.045 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 91908

Ion	Ratio	Lower	Upper
41	100		
39	53.3	45.4	68.2
67	84.4	64.0	96.0
52	31.5	27.0	40.6

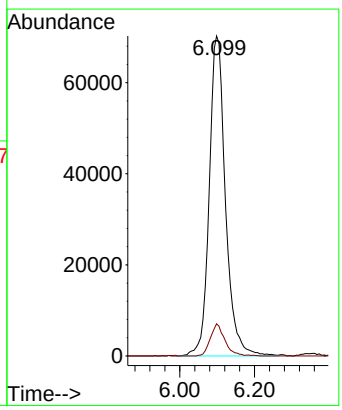


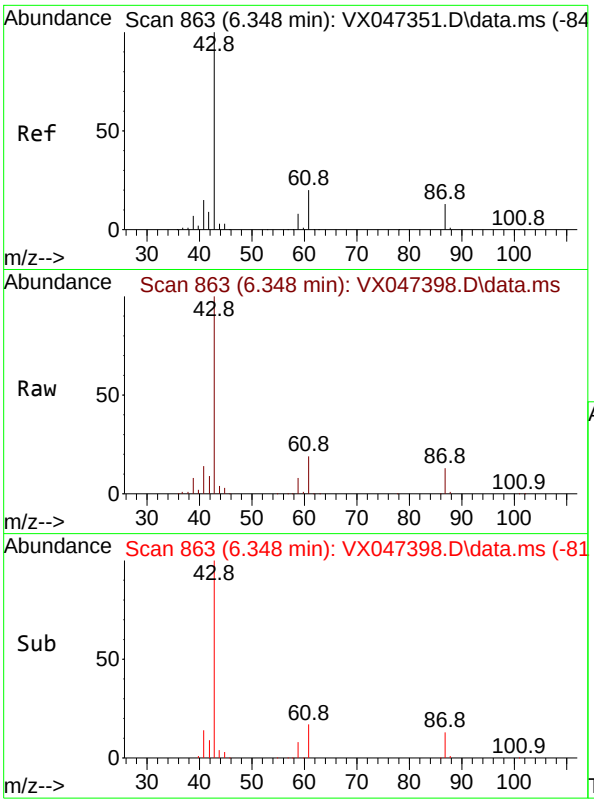


#42
1,2-Dichloroethane
Concen: 47.640 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 62 Resp: 211887

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	18.0



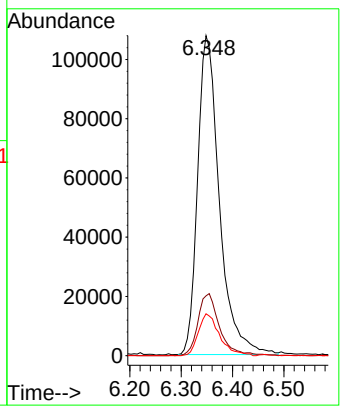


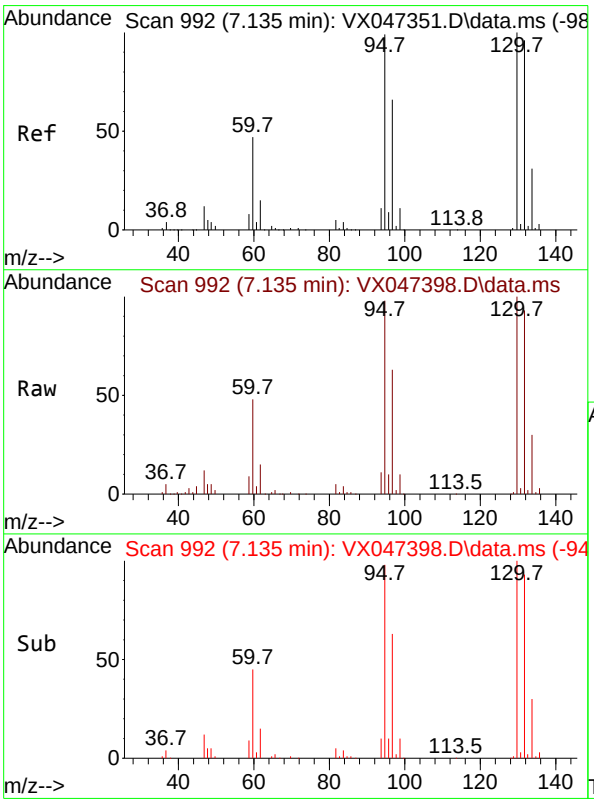
#43
Isopropyl Acetate
Concen: 50.686 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 317114

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.4	23.0
87	12.8	10.2	15.4

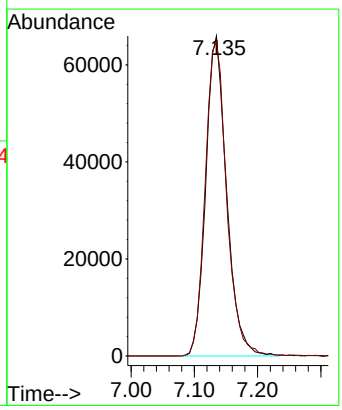


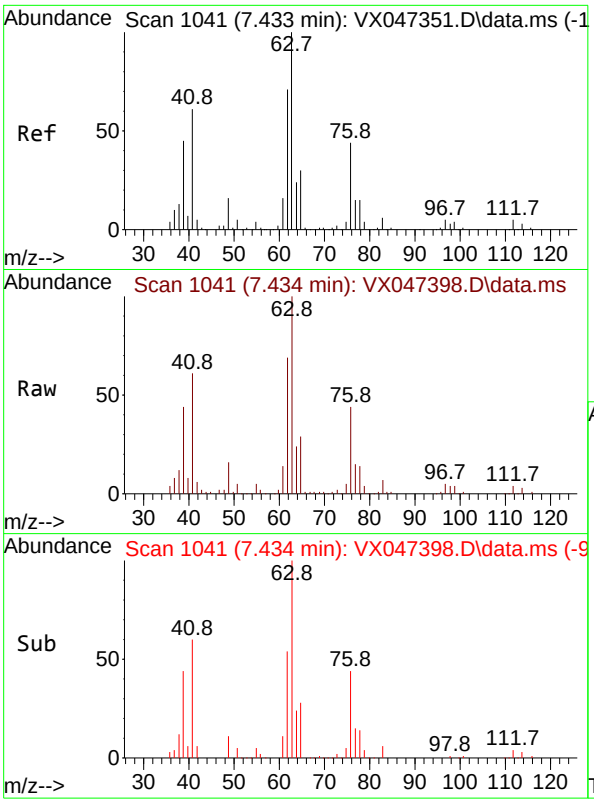


#44
Trichloroethene
Concen: 47.029 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:130 Resp: 151205

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	198.6



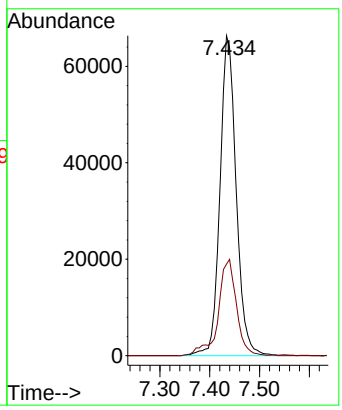


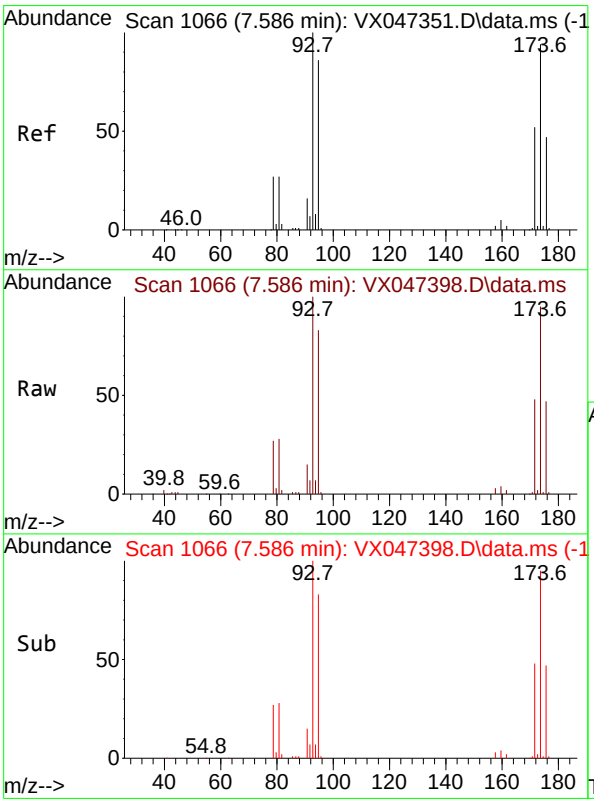
#45
1,2-Dichloropropane
Concen: 47.663 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 149932

Ion	Ratio	Lower	Upper
63	100		
65	28.6	23.8	35.6

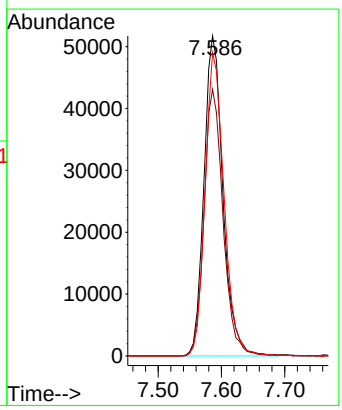


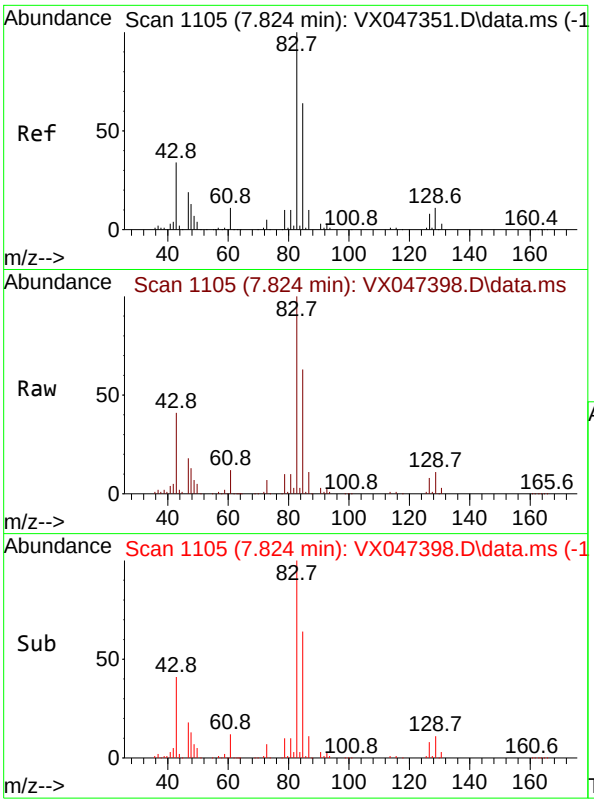


#46
Dibromomethane
Concen: 47.328 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 93 Resp: 108086

Ion	Ratio	Lower	Upper
93	100		
95	83.5	68.0	102.0
174	94.4	75.8	113.6



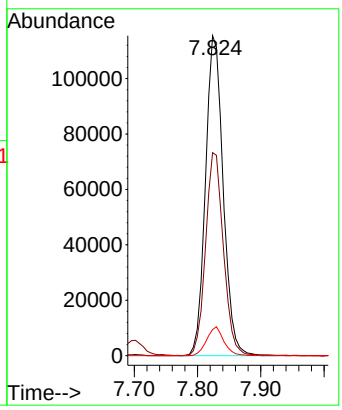


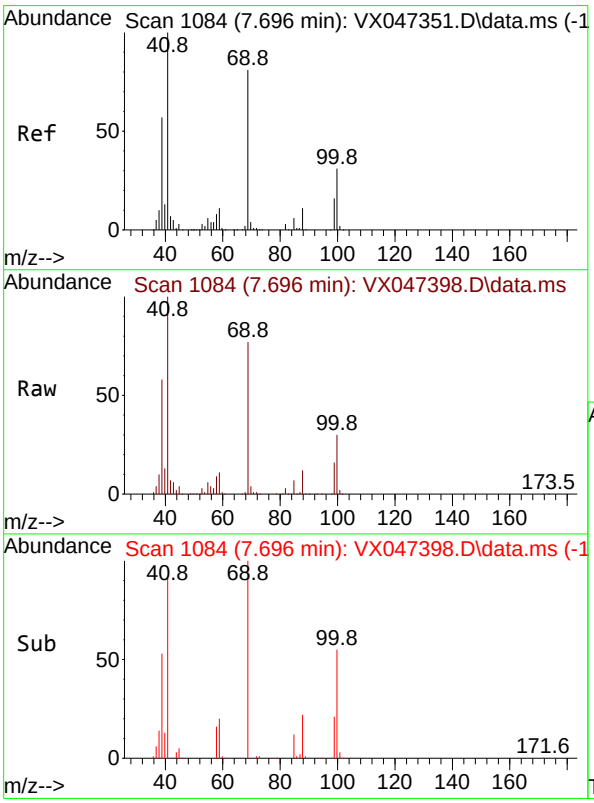
#47
Bromodichloromethane
Concen: 47.489 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 224833

Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.0	76.6
127	8.1	7.0	10.4

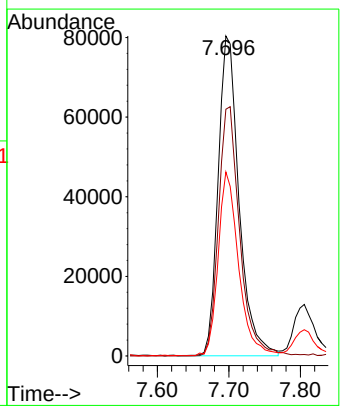


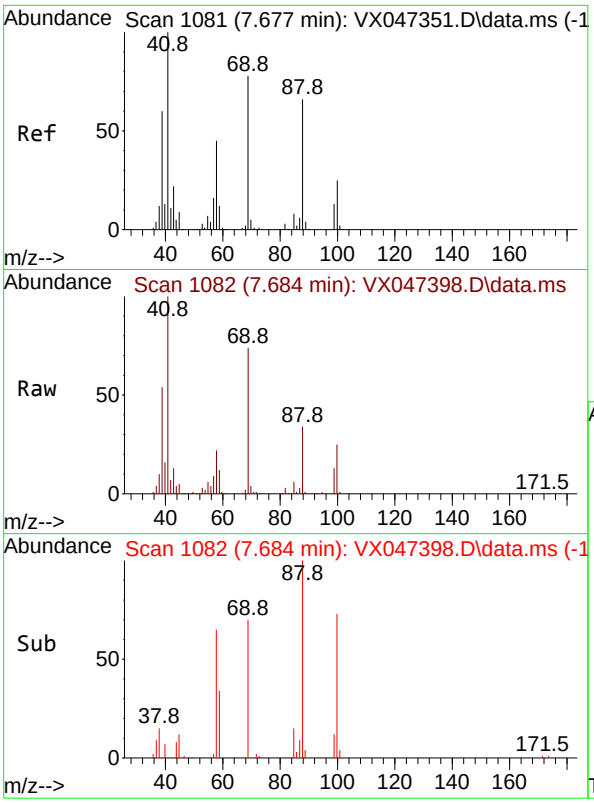


#48
Methyl methacrylate
Concen: 50.264 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 41 Resp: 163233

Ion	Ratio	Lower	Upper
41	100		
69	79.5	65.0	97.4
39	56.0	45.7	68.5



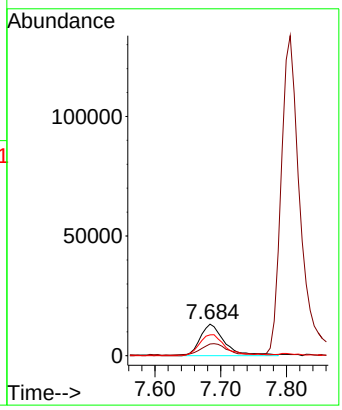


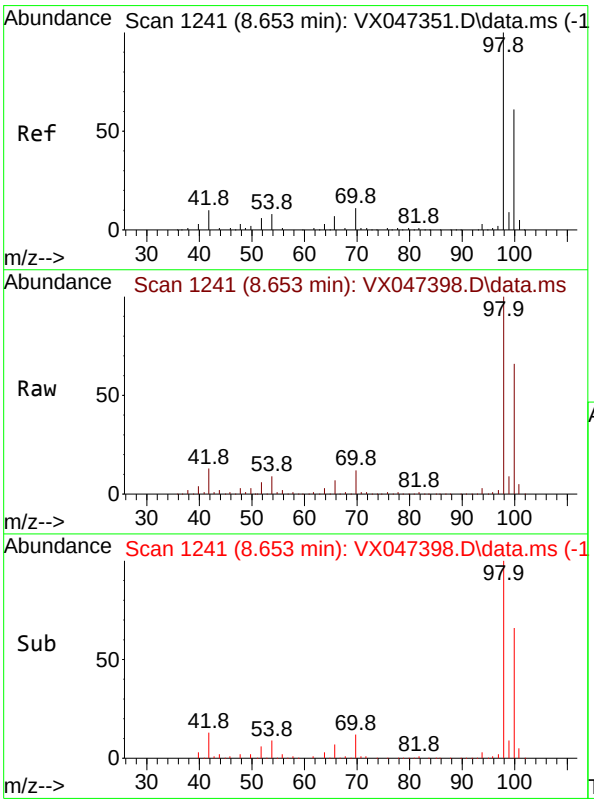
#49
1,4-Dioxane
Concen: 1070.636 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 33800

Ion	Ratio	Lower	Upper
88	100		
43	38.5	32.4	48.6
58	71.3	56.9	85.3

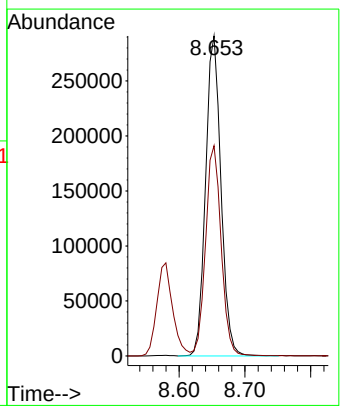


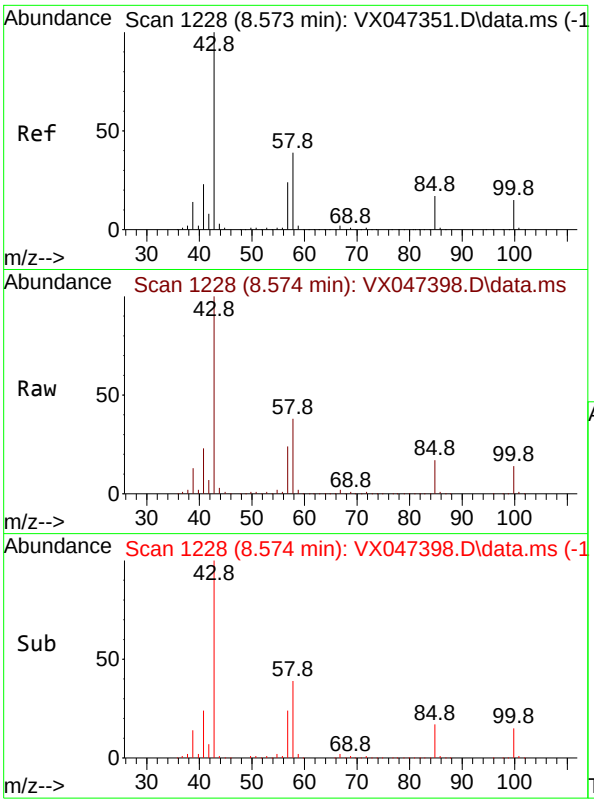


#50
Toluene-d8
Concen: 49.733 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 98 Resp: 472396

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.9	80.9



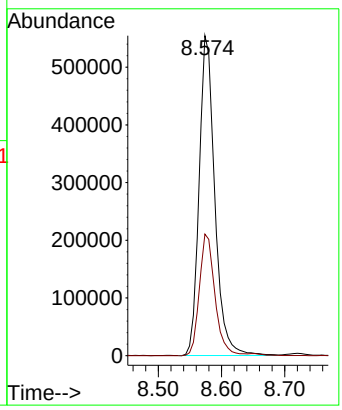


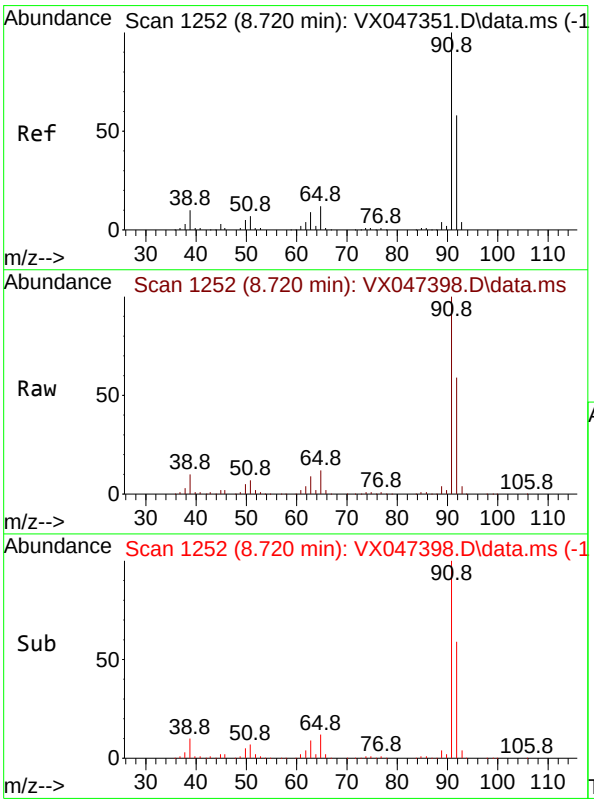
#51
4-Methyl-2-Pentanone
Concen: 265.854 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 957168

Ion	Ratio	Lower	Upper
43	100		
58	37.9	31.2	46.8

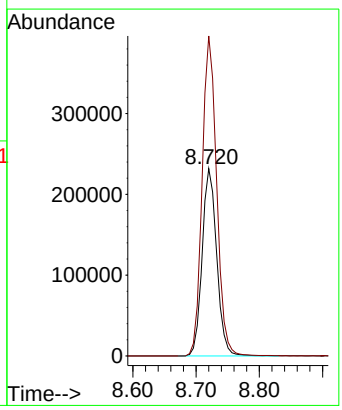


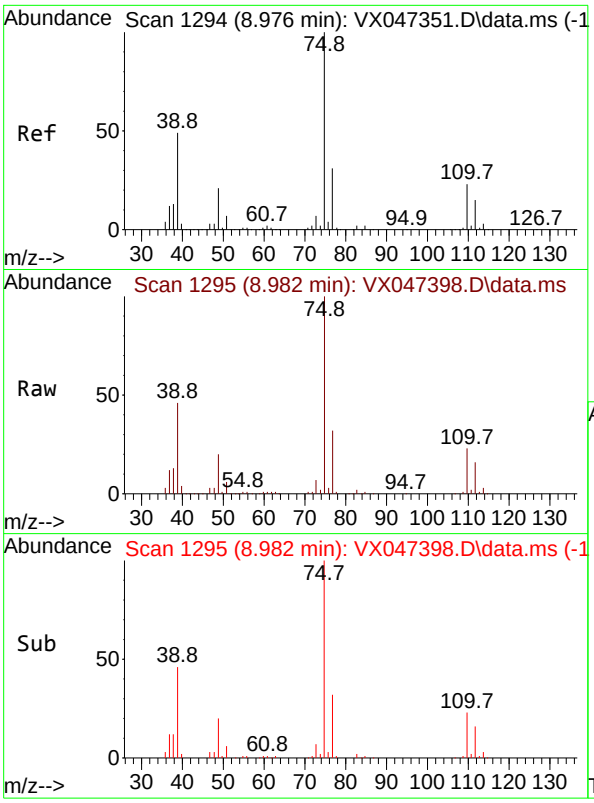


#52
Toluene
Concen: 47.866 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 92 Resp: 371391

Ion	Ratio	Lower	Upper
92	100		
91	170.7	136.3	204.5



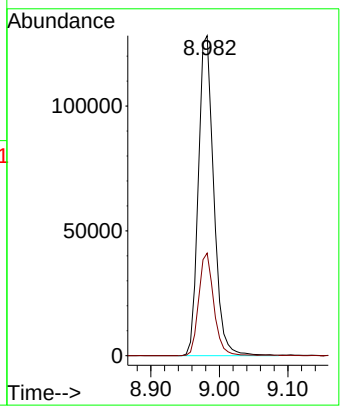


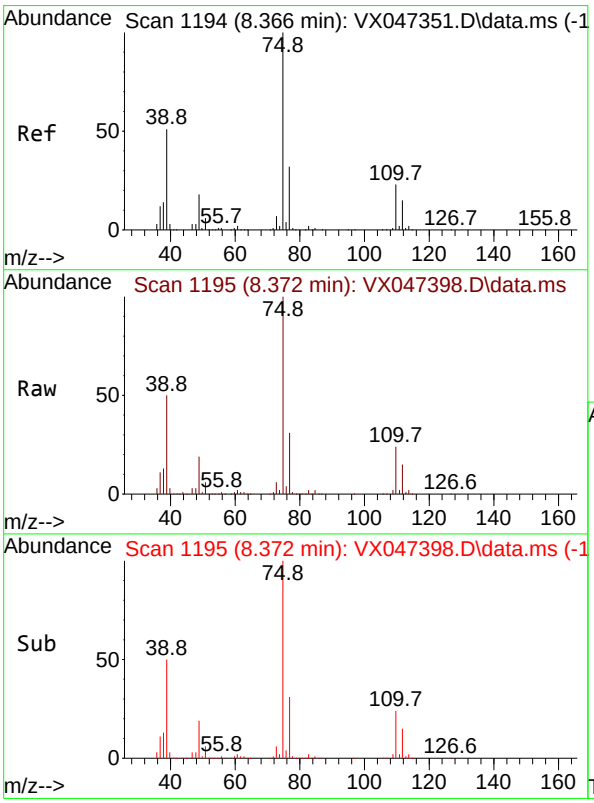
#53
t-1,3-Dichloropropene
Concen: 48.624 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 200913

Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.7	37.1

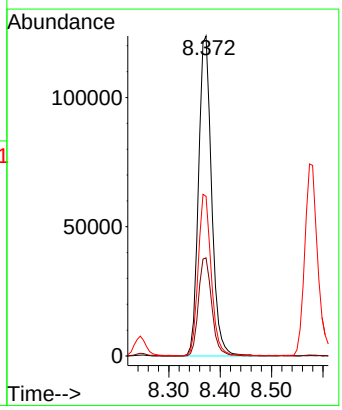


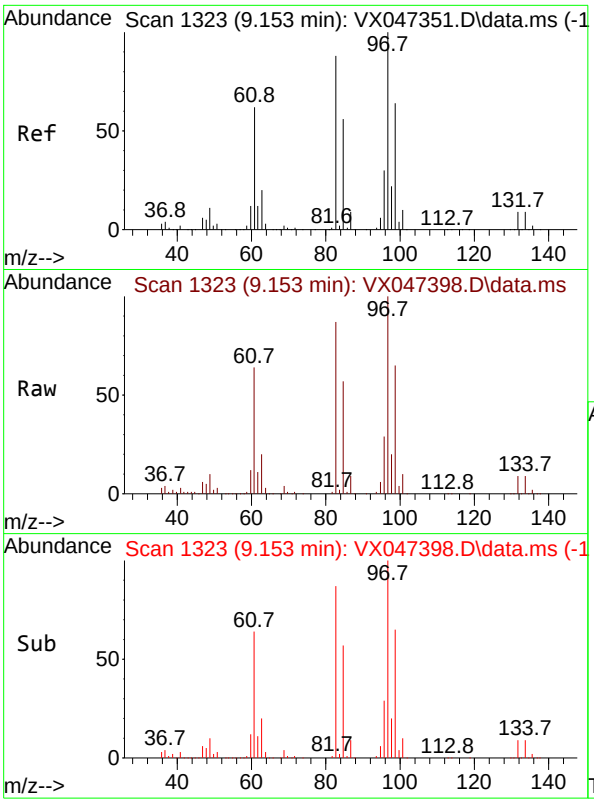


#54
cis-1,3-Dichloropropene
Concen: 46.750 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 75 Resp: 218646

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.6	38.4
39	49.8	40.9	61.3



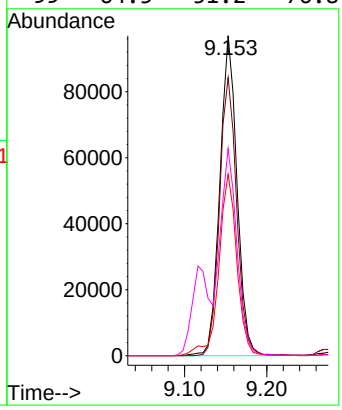


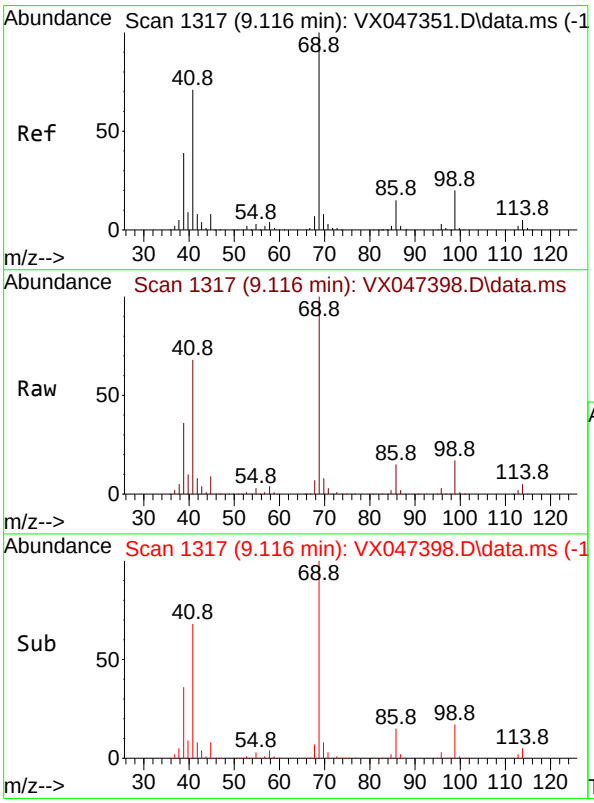
#55
1,1,2-Trichloroethane
Concen: 47.906 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 141129

Ion	Ratio	Lower	Upper
97	100		
83	86.9	70.6	106.0
85	56.6	44.7	67.1
99	64.5	51.2	76.8

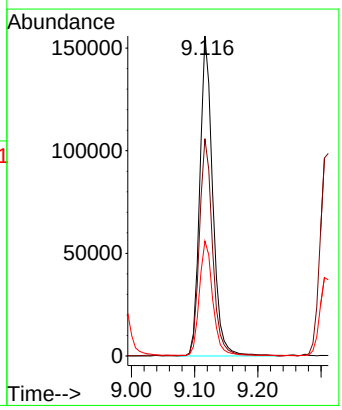


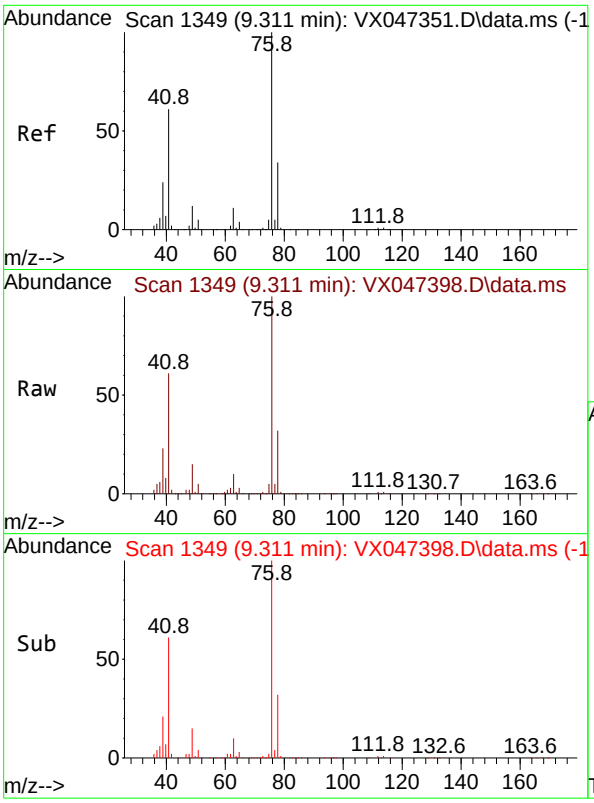


#56
Ethyl methacrylate
Concen: 51.063 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 69 Resp: 221781

Ion	Ratio	Lower	Upper
69	100		
41	69.8	55.3	82.9
39	37.7	30.2	45.2



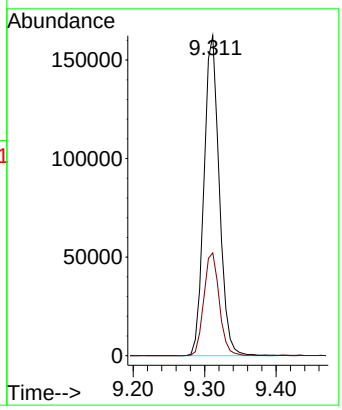


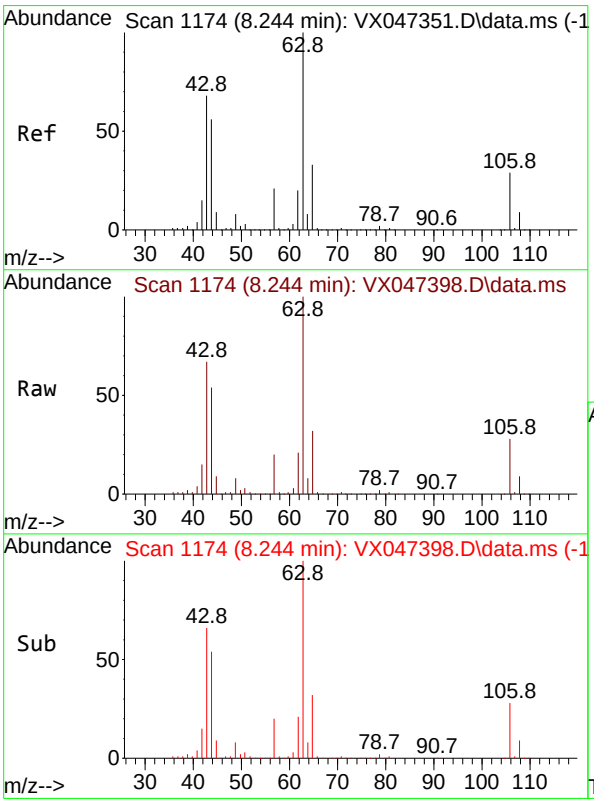
#57
1,3-Dichloropropane
Concen: 48.073 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 241320

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.2	39.2

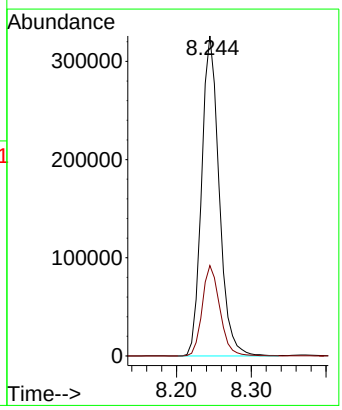


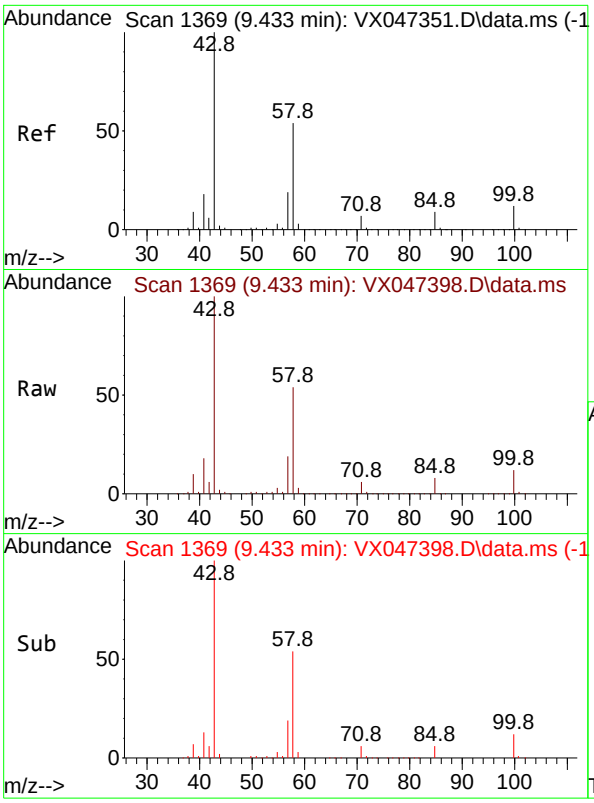


#58
2-Chloroethyl Vinyl ether
Concen: 256.065 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 63 Resp: 531511

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.8	34.2



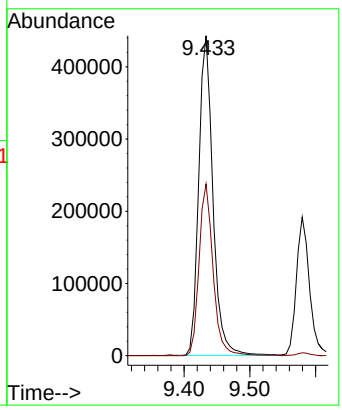


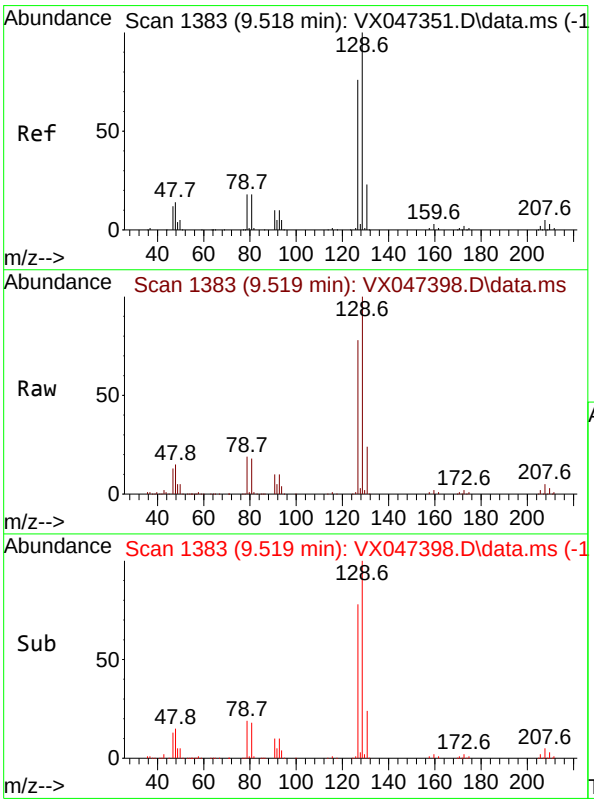
#59
2-Hexanone
Concen: 266.477 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 663645

Ion	Ratio	Lower	Upper
43	100		
58	53.2	26.9	80.7

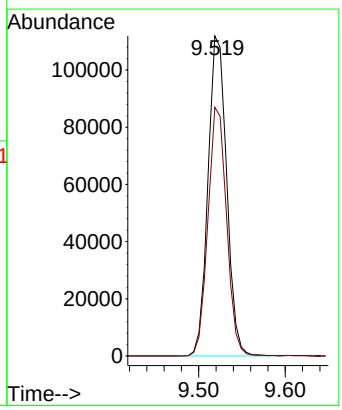


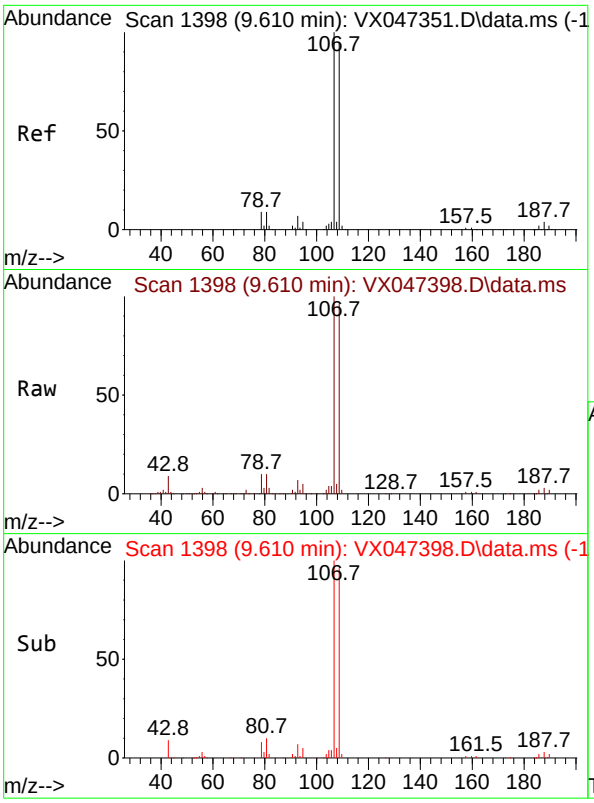


#60
Dibromochloromethane
Concen: 47.846 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:129 Resp: 167507

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.9	116.6



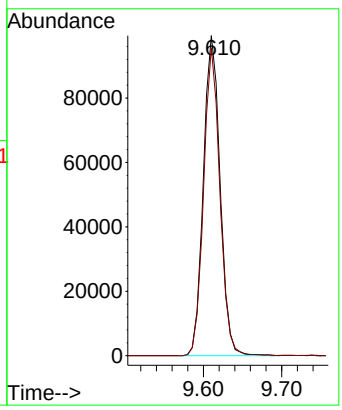


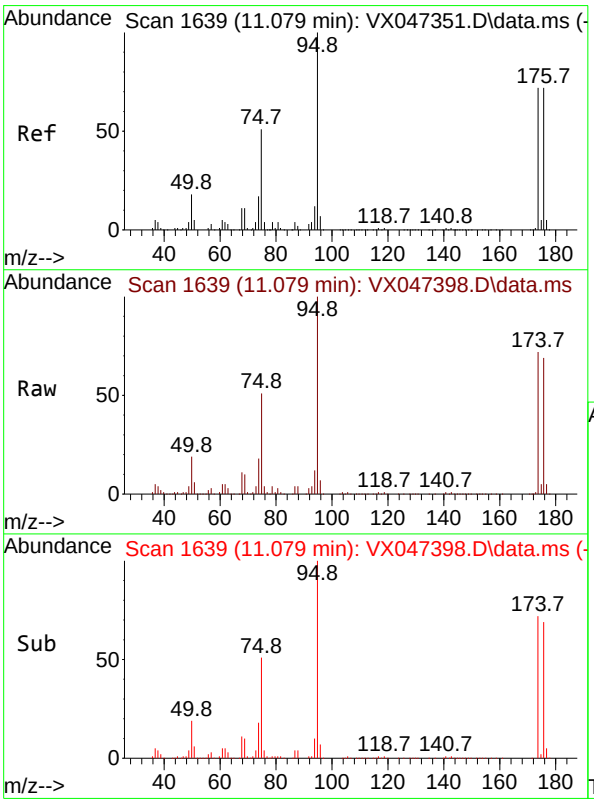
#61
1,2-Dibromoethane
Concen: 48.409 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 147057

Ion	Ratio	Lower	Upper
107	100		
109	93.6	76.2	114.2

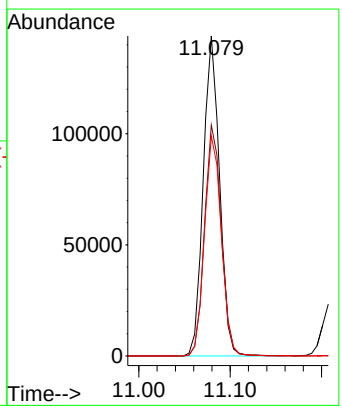


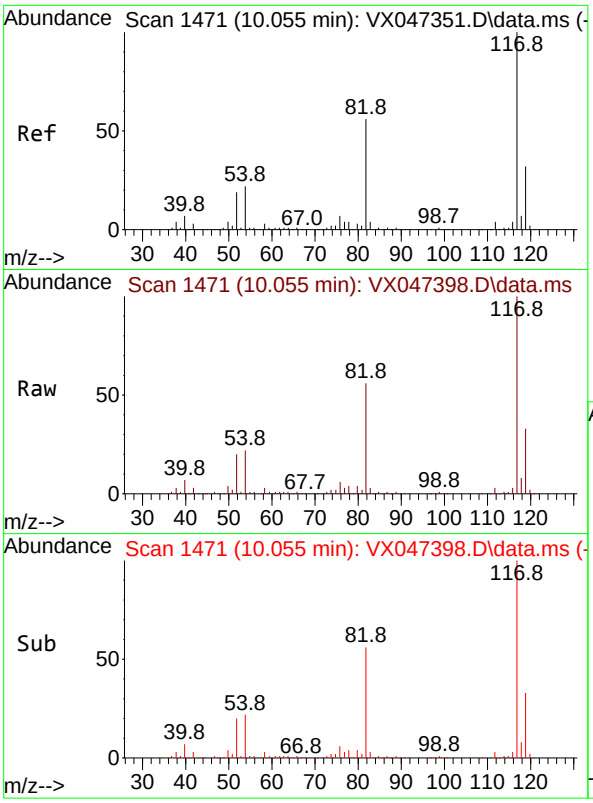


#62
4-Bromofluorobenzene
Concen: 50.769 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 95 Resp: 177952

Ion	Ratio	Lower	Upper
95	100		
174	74.2	0.0	148.0
176	71.0	0.0	145.4



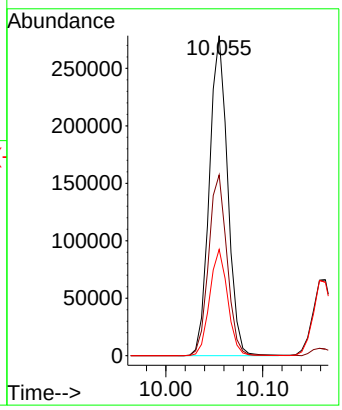


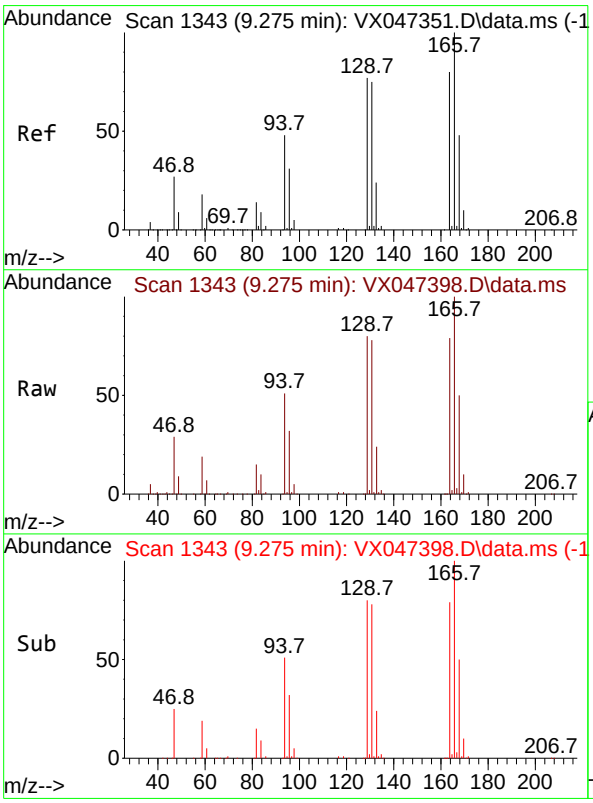
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 364979

Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.0	67.4
119	33.2	25.8	38.8

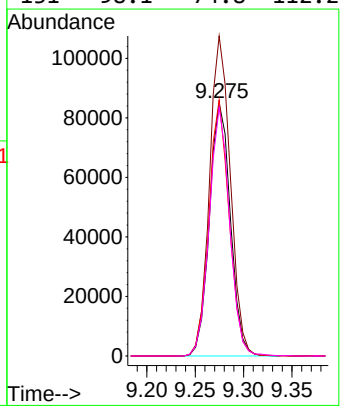


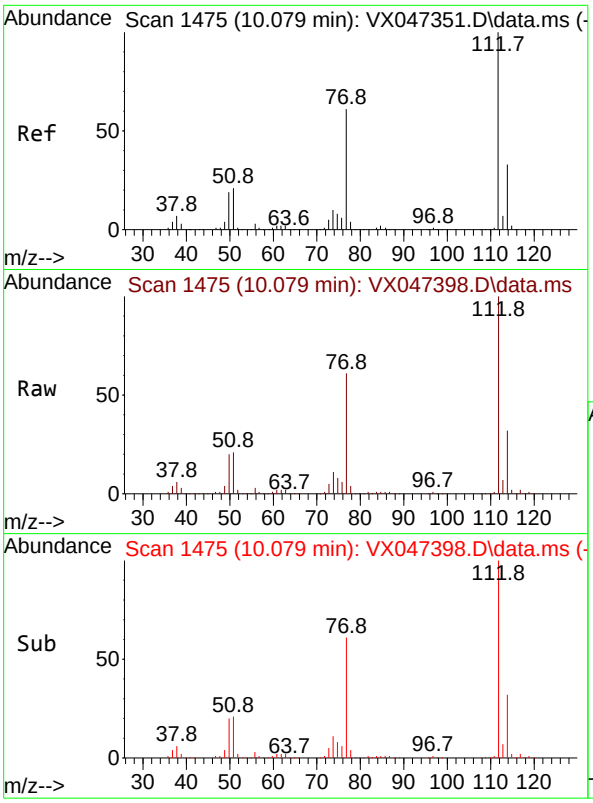


#64
Tetrachloroethene
Concen: 48.383 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:164 Resp: 127728

Ion	Ratio	Lower	Upper
164	100		
166	126.5	100.3	150.5
129	101.2	77.7	116.5
131	98.1	74.8	112.2



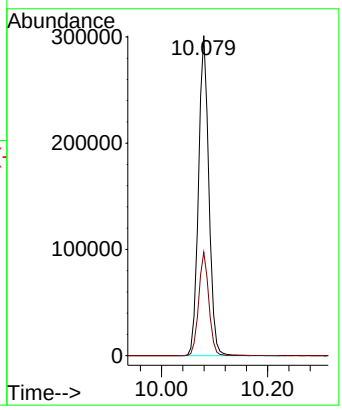


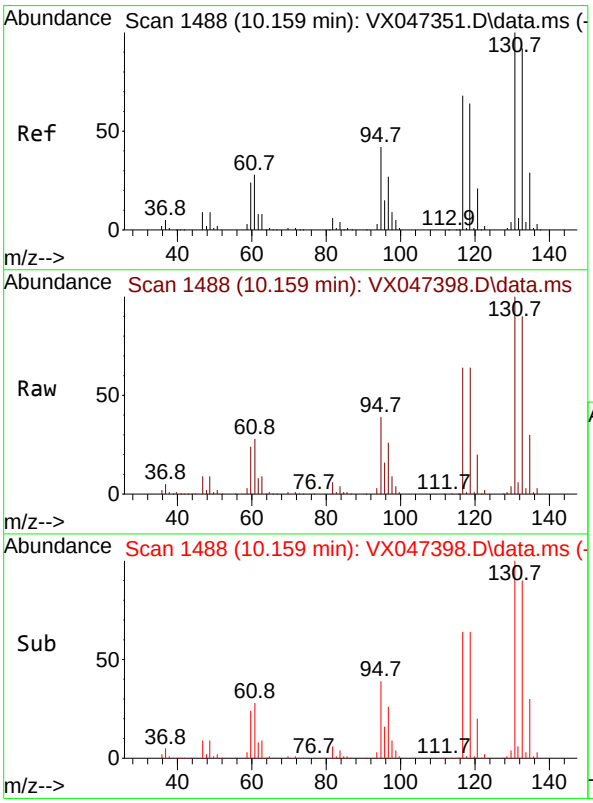
#65
Chlorobenzene
Concen: 47.020 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 407823

Ion	Ratio	Lower	Upper
112	100		
114	32.3	26.4	39.6

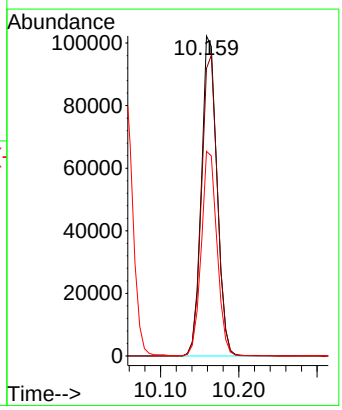


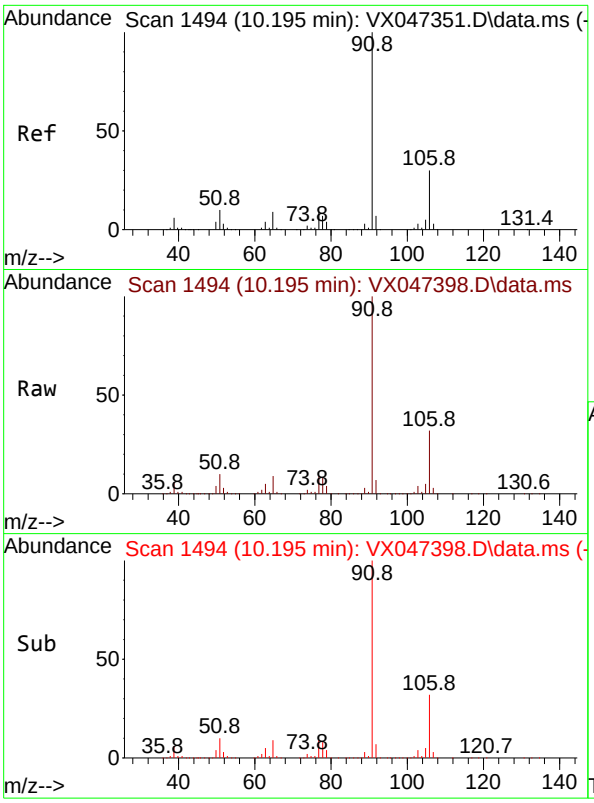


#66
1,1,1,2-Tetrachloroethane
Concen: 48.203 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:131 Resp: 141328

Ion	Ratio	Lower	Upper
131	100		
133	95.4	47.6	142.9
119	64.4	32.3	96.8



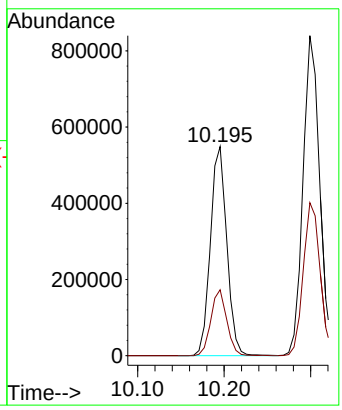


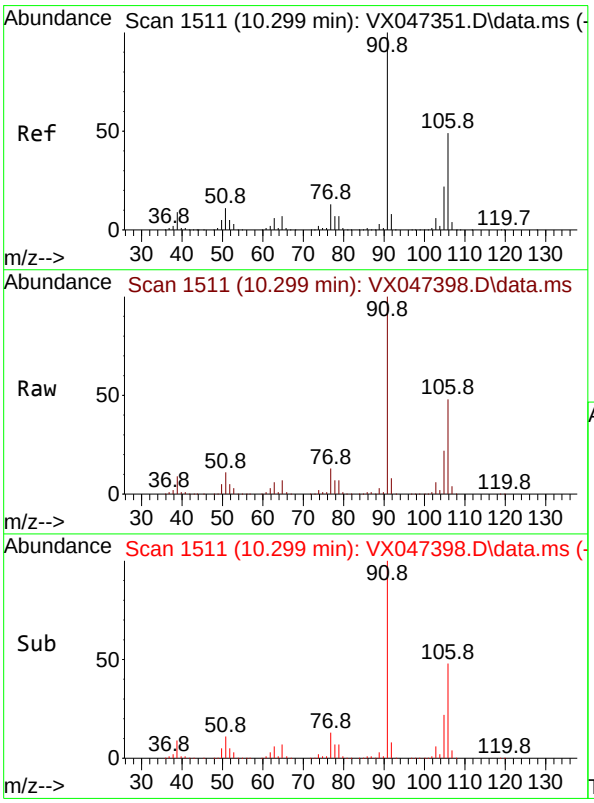
#67
Ethyl Benzene
Concen: 48.350 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 721774

Ion	Ratio	Lower	Upper
91	100		
106	31.5	24.4	36.6

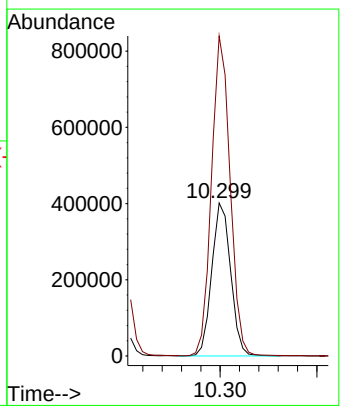


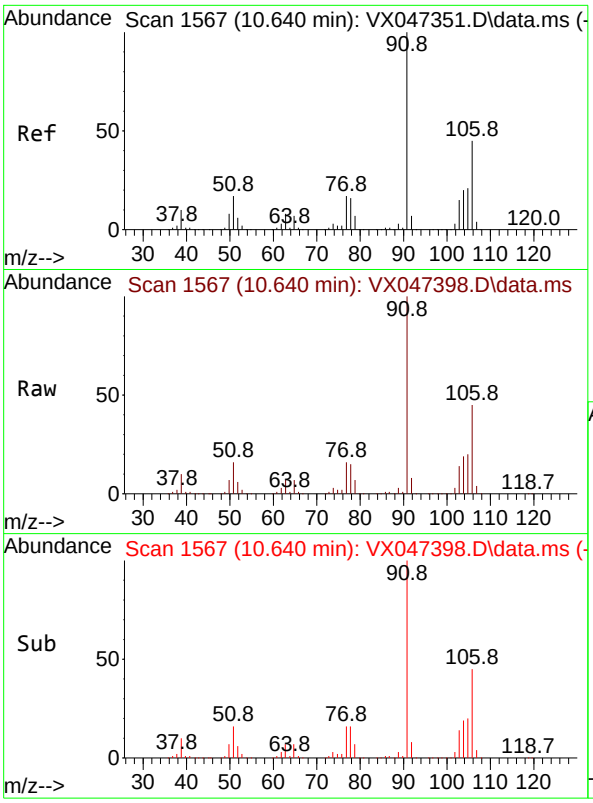


#68
m/p-Xylenes
Concen: 97.575 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:106 Resp: 543135

Ion	Ratio	Lower	Upper
106	100		
91	206.5	164.7	247.1



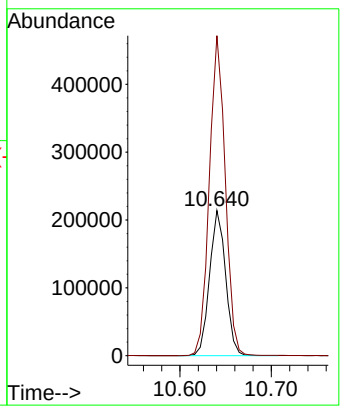


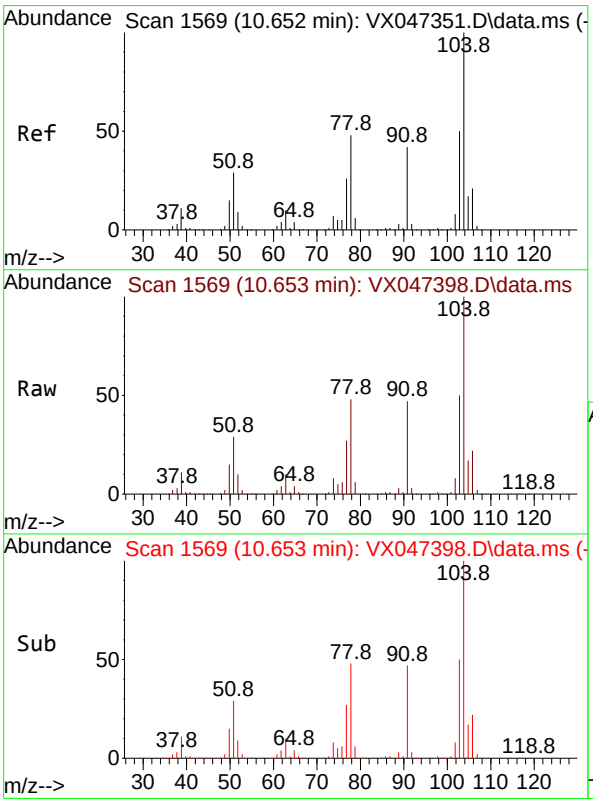
#69
o-Xylene
Concen: 48.711 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 260931

Ion	Ratio	Lower	Upper
106	100		
91	218.8	110.6	331.8

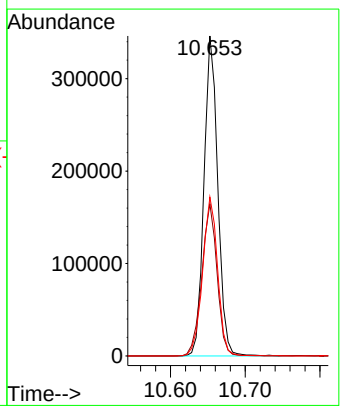


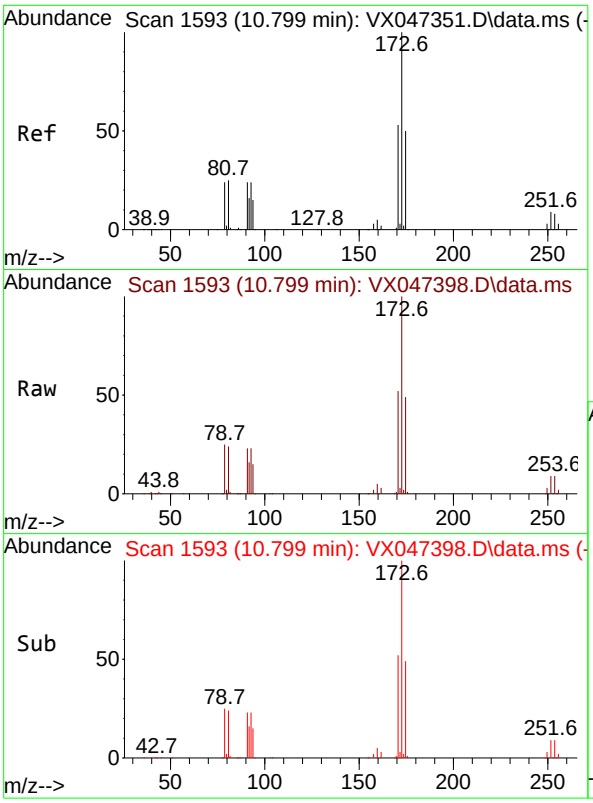


#70
Styrene
Concen: 48.950 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:104 Resp: 443043

Ion	Ratio	Lower	Upper
104	100		
78	52.8	41.8	62.8
103	54.2	43.6	65.4



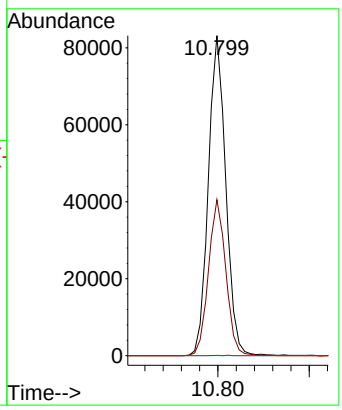


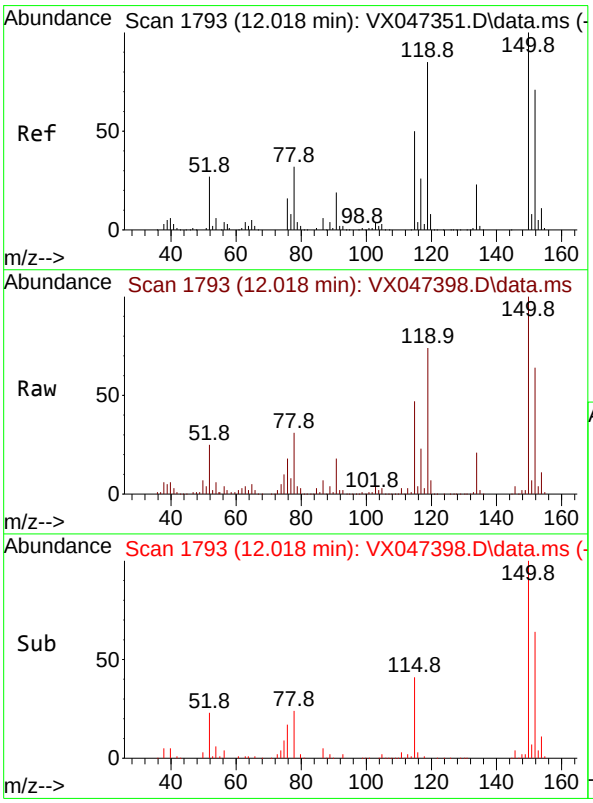
#71
Bromoform
Concen: 49.800 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 109693

Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.4	73.4
254	0.1	0.1	0.1#

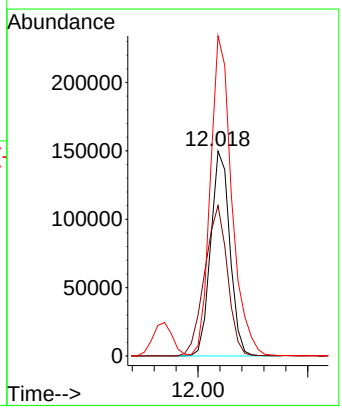


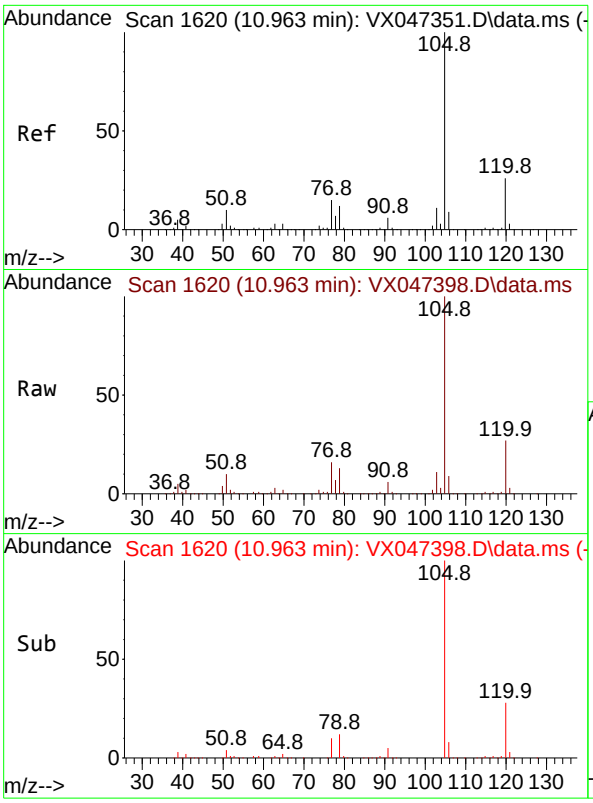


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:152 Resp: 181876

Ion	Ratio	Lower	Upper
152	100		
115	87.3	44.6	133.8
150	173.8	0.0	349.8



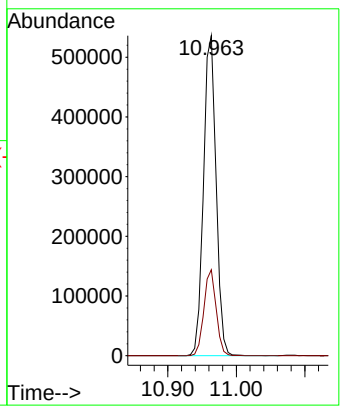


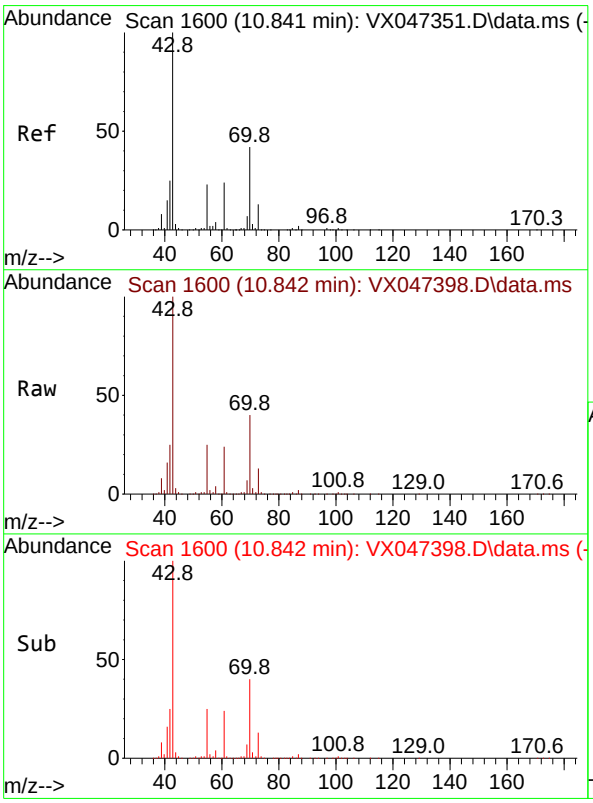
#73
Isopropylbenzene
Concen: 48.136 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 685100

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.9	38.6

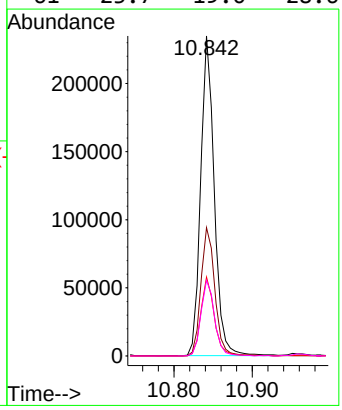


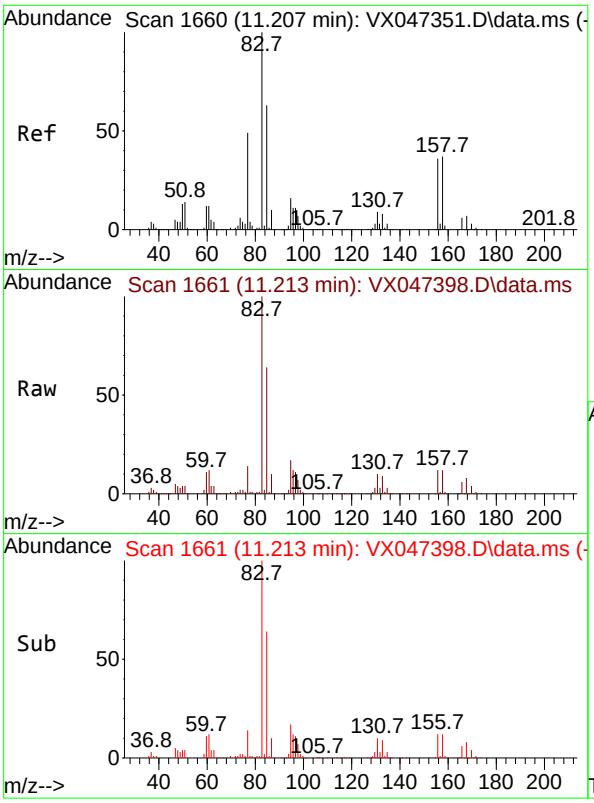


#74
N-amyl acetate
Concen: 52.388 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 43 Resp: 283144

Ion	Ratio	Lower	Upper
43	100		
70	41.3	33.1	49.7
55	24.6	19.0	28.6
61	23.7	19.0	28.6



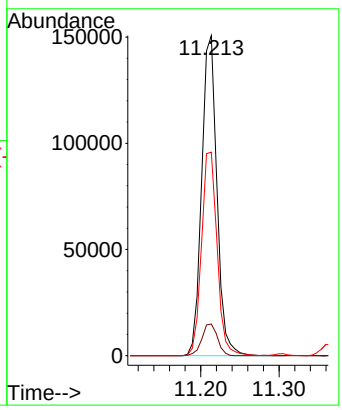


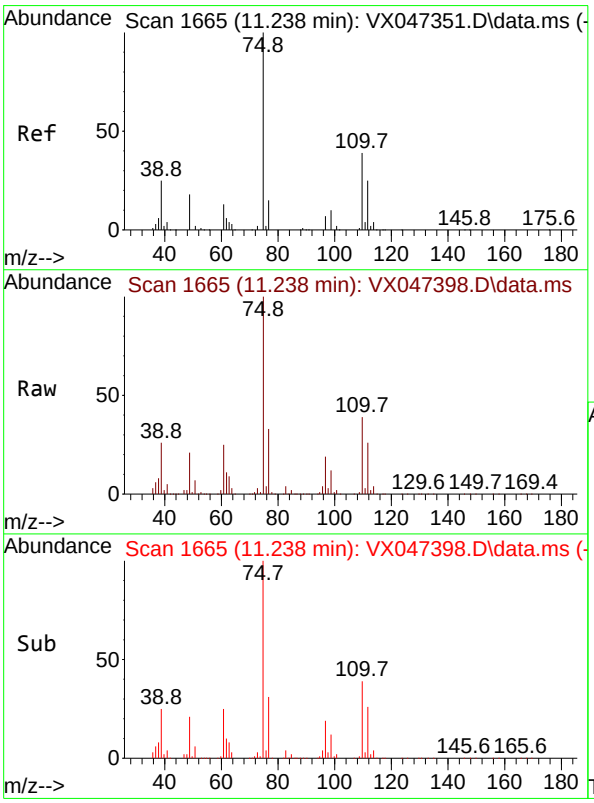
#75
1,1,2,2-Tetrachloroethane
Concen: 48.688 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 203458

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.0	15.0
85	65.1	31.7	95.1

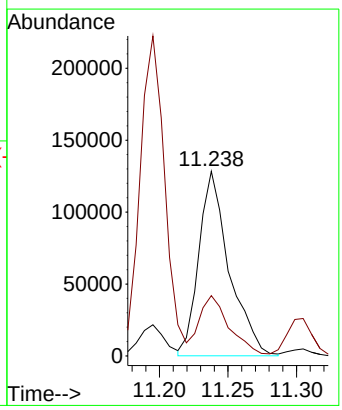


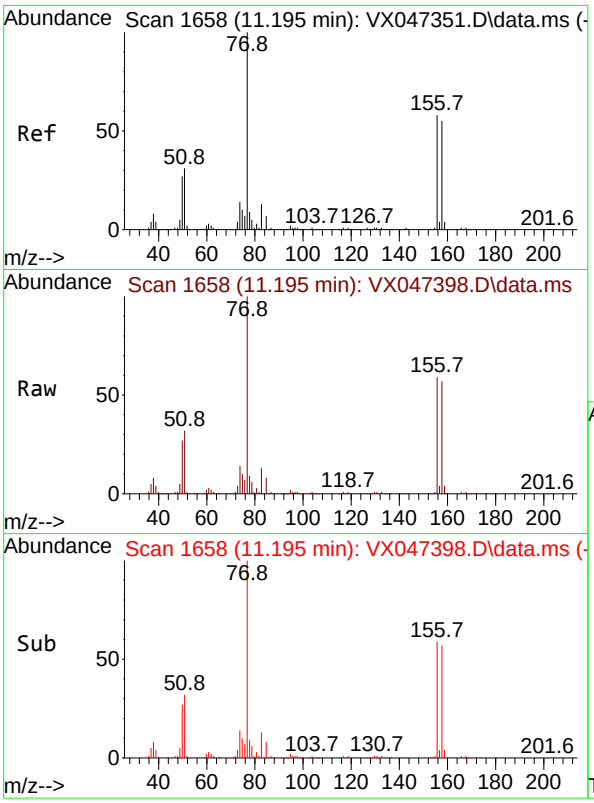


#76
1,2,3-Trichloropropane
Concen: 59.398 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 75 Resp: 198139

Ion	Ratio	Lower	Upper
75	100		
77	32.6	19.4	58.2



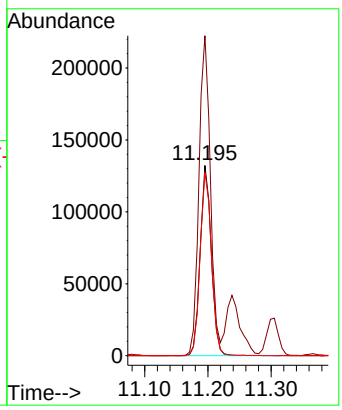


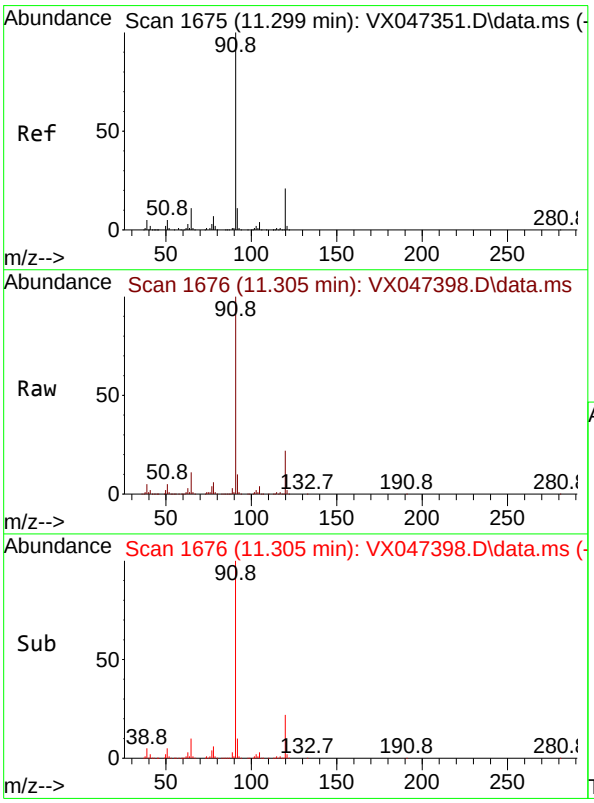
#77
Bromobenzene
Concen: 46.788 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 162609

Ion	Ratio	Lower	Upper
156	100		
77	172.4	86.3	258.9
158	97.9	48.0	144.2

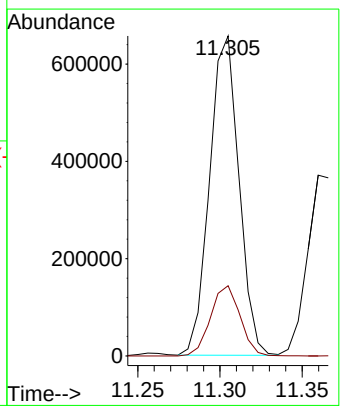


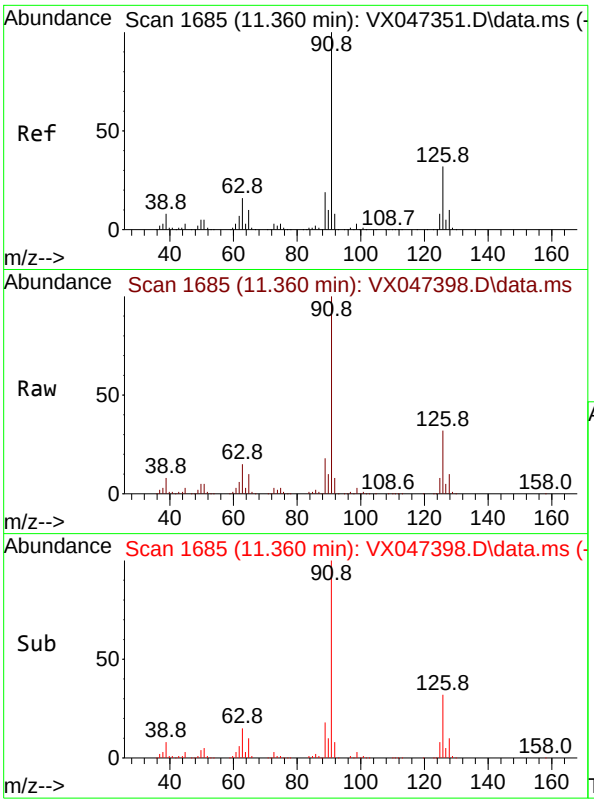


#78
n-propylbenzene
Concen: 47.963 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 91 Resp: 815287

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0



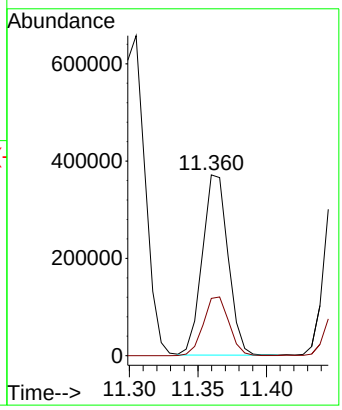


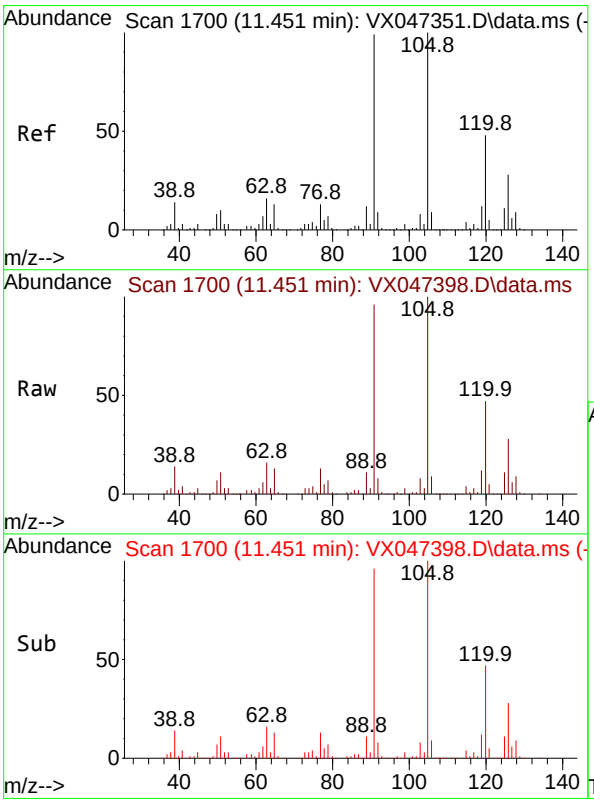
#79
2-Chlorotoluene
Concen: 47.097 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 483943

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.7	50.1

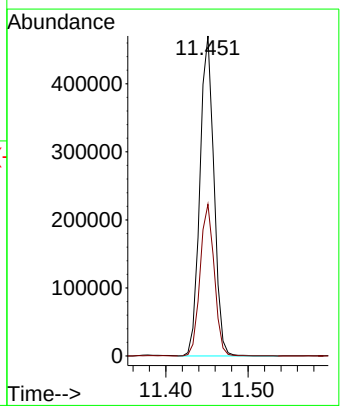


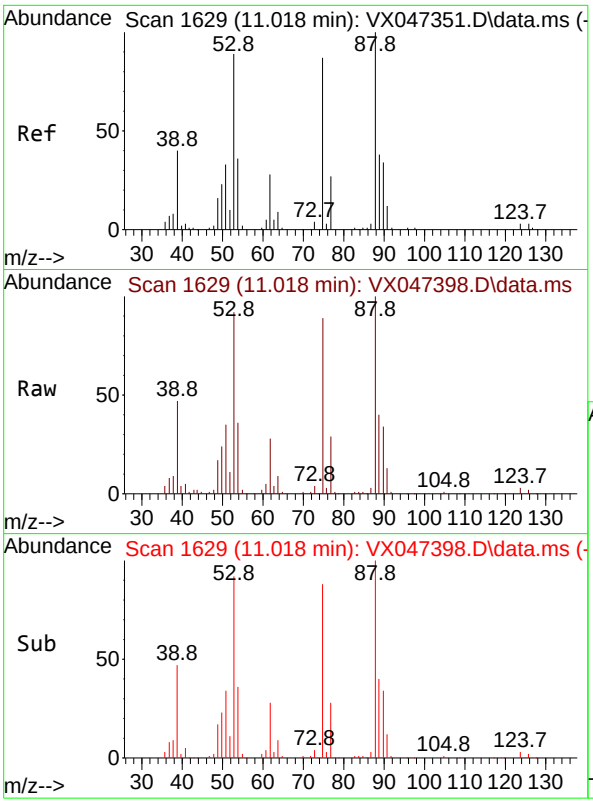


#80
1,3,5-Trimethylbenzene
Concen: 47.736 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:105 Resp: 559007

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.9	71.7



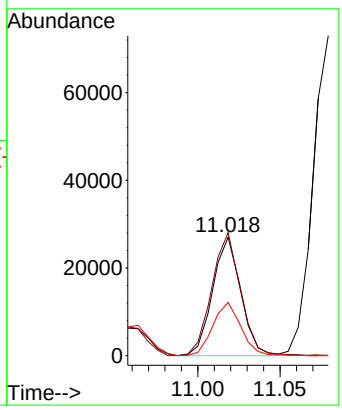


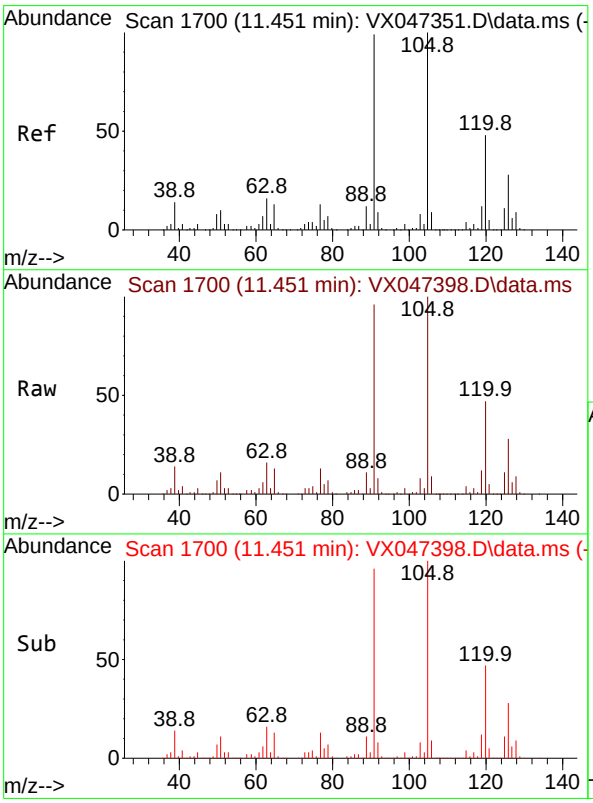
#81
trans-1,4-Dichloro-2-butene
Concen: 43.382 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 32344

Ion	Ratio	Lower	Upper
75	100		
53	105.5	85.2	127.8
89	44.8	36.7	55.1

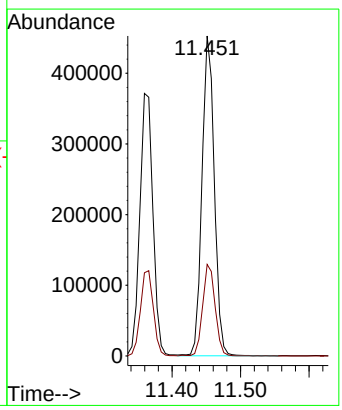


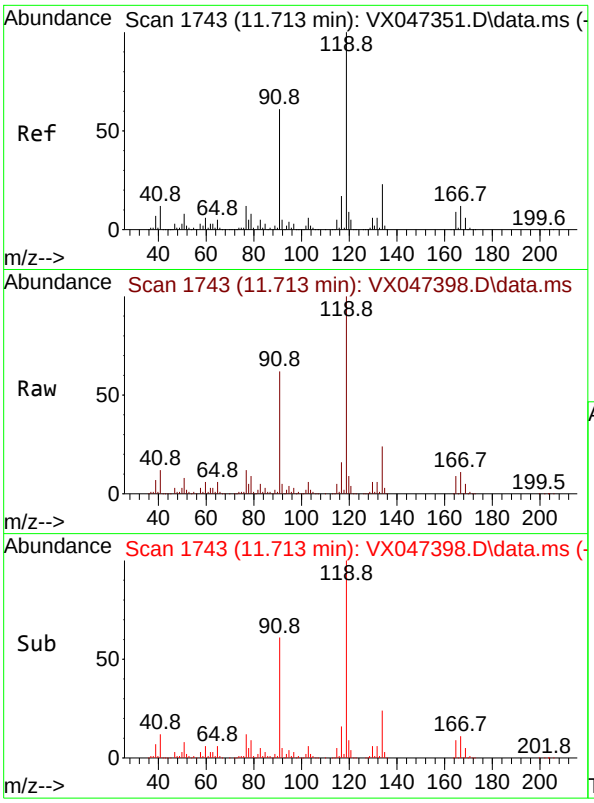


#82
4-Chlorotoluene
Concen: 46.629 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 91 Resp: 564800

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.4	43.0



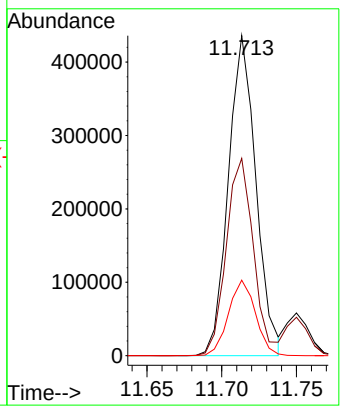


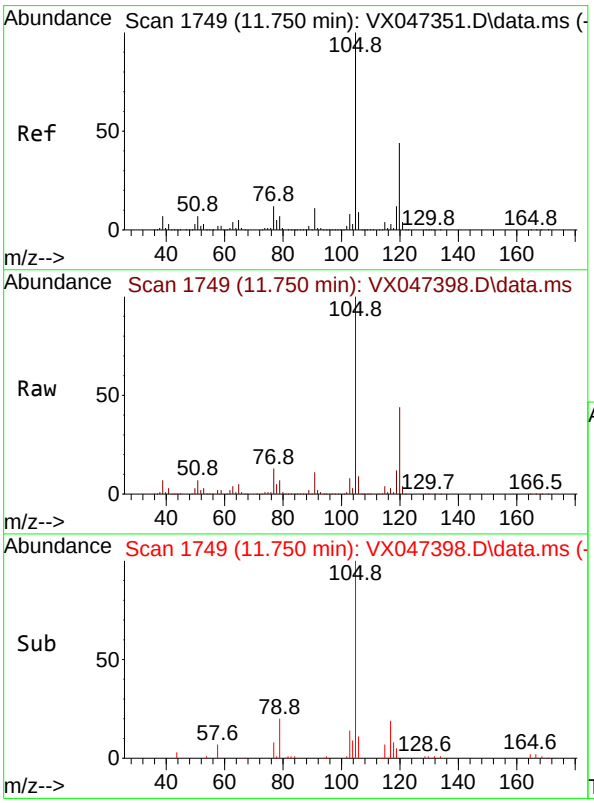
#83
tert-Butylbenzene
Concen: 47.888 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 559489

Ion	Ratio	Lower	Upper
119	100		
91	61.0	29.1	87.4
134	23.1	11.3	33.9

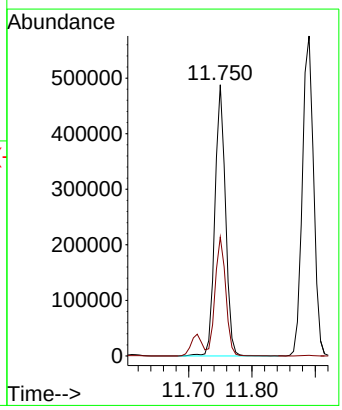


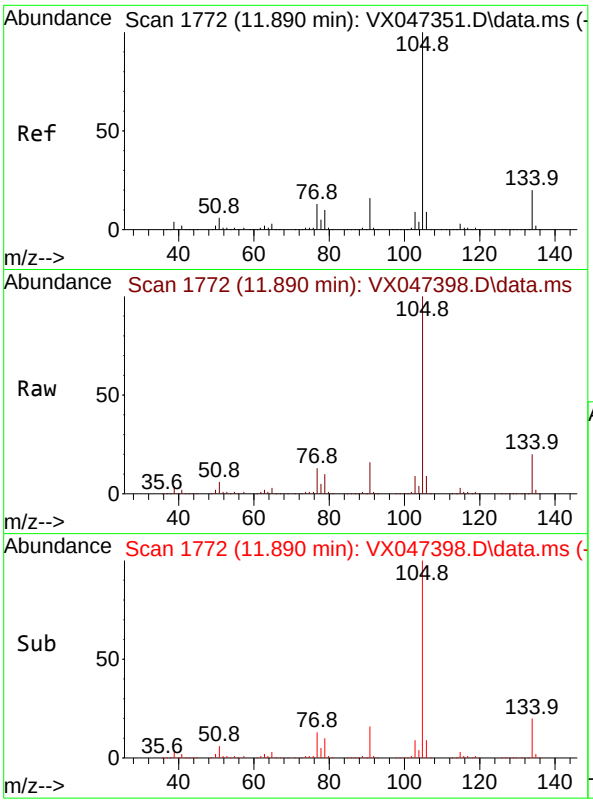


#84
1,2,4-Trimethylbenzene
Concen: 48.276 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:105 Resp: 565346

Ion	Ratio	Lower	Upper
105	100		
120	44.1	21.9	65.7



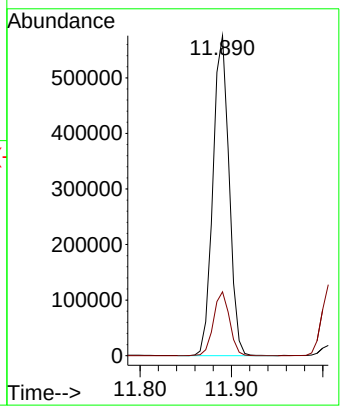


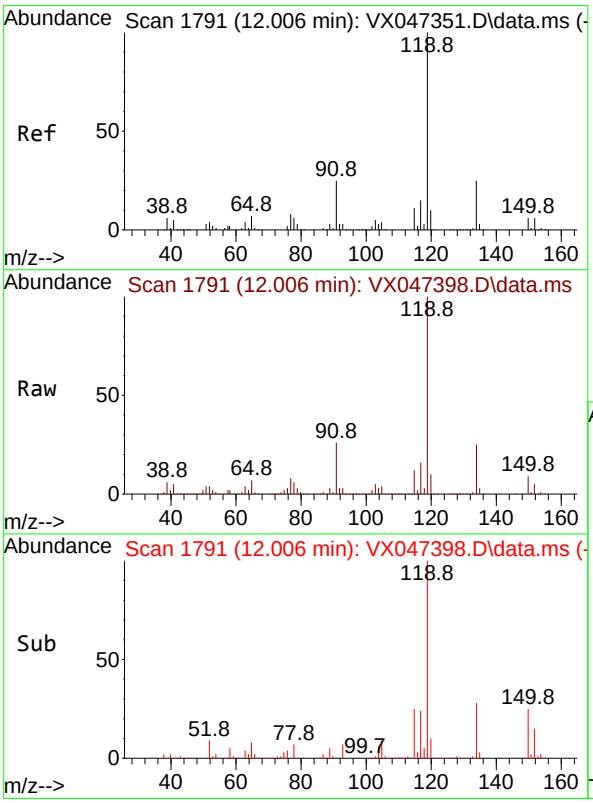
#85
sec-Butylbenzene
Concen: 48.776 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 706315

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5

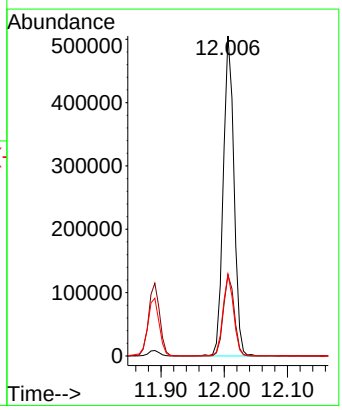


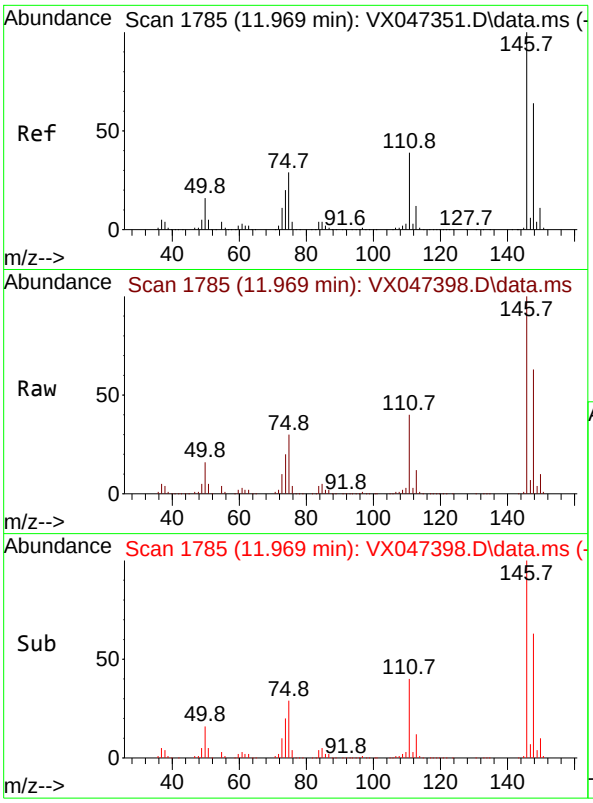


#86
p-Isopropyltoluene
Concen: 48.046 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:119 Resp: 588746

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.8	38.4
91	25.4	12.4	37.4



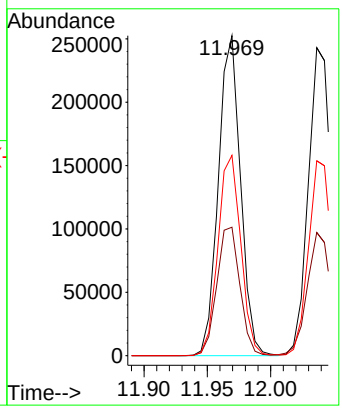


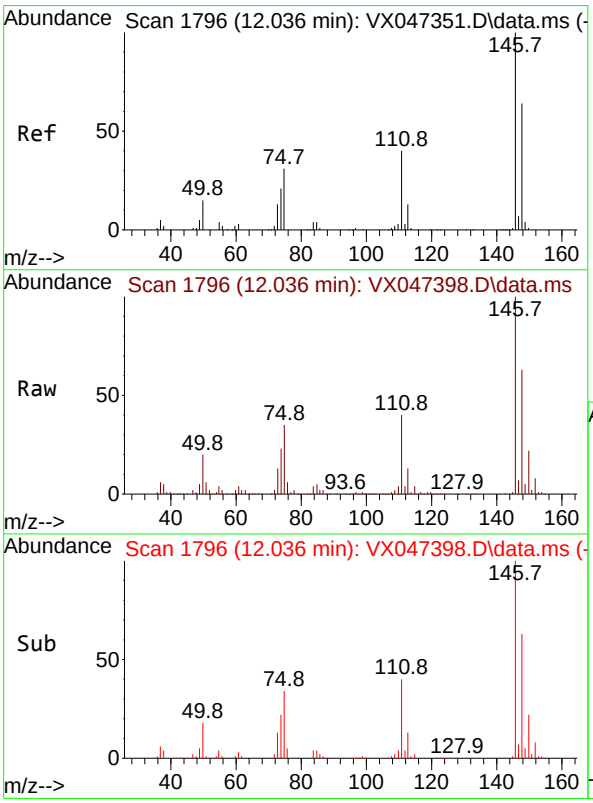
#87
1,3-Dichlorobenzene
Concen: 46.289 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 307335

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.6	61.8
148	64.4	31.9	95.5

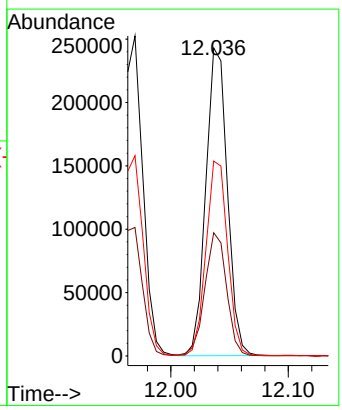


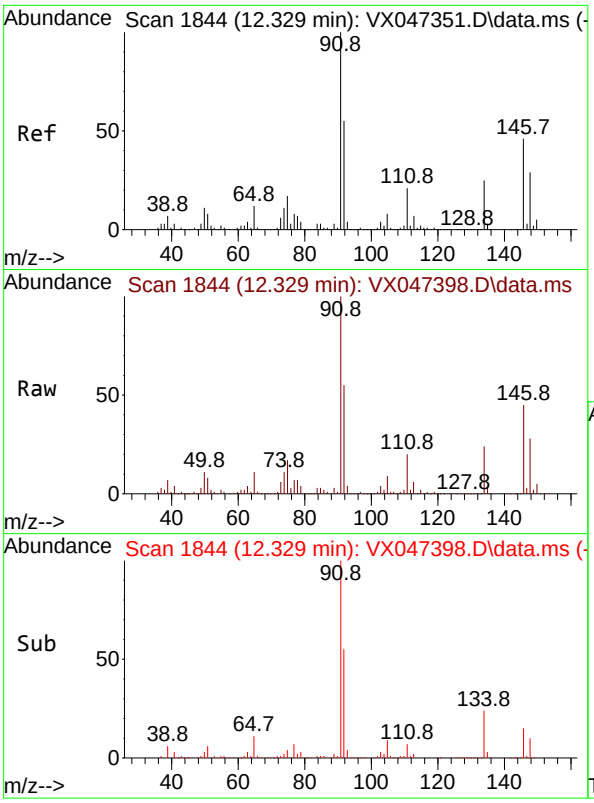


#88
1,4-Dichlorobenzene
Concen: 45.233 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:146 Resp: 308887

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.4	61.2
148	64.0	31.7	95.1



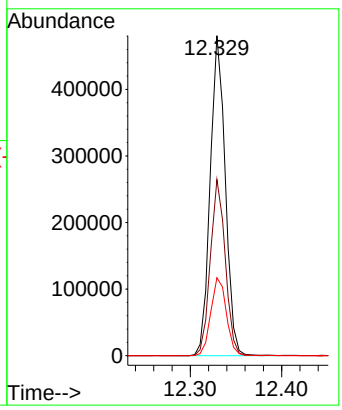


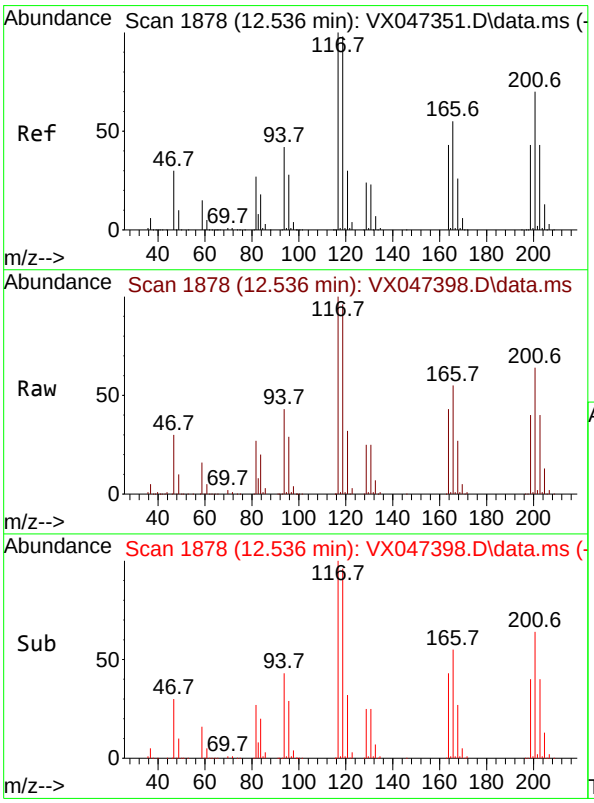
#89
n-Butylbenzene
Concen: 48.167 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 548981

Ion	Ratio	Lower	Upper
91	100		
92	54.7	27.2	81.5
134	25.2	12.6	37.8

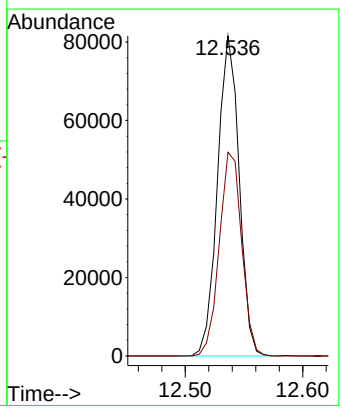


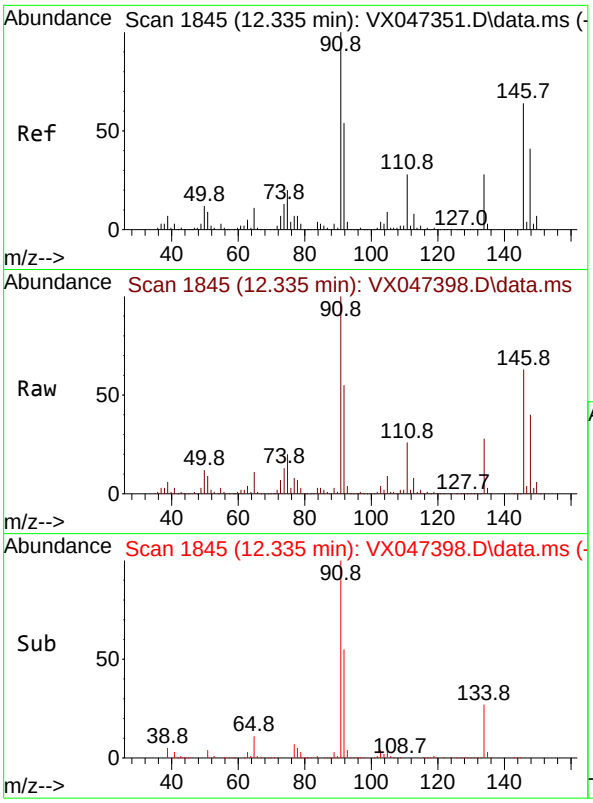


#90
Hexachloroethane
Concen: 48.527 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:117 Resp: 104319

Ion	Ratio	Lower	Upper
117	100		
201	66.1	35.1	105.3



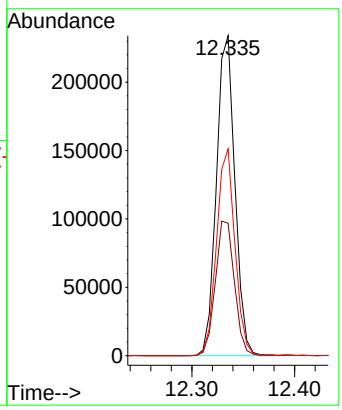


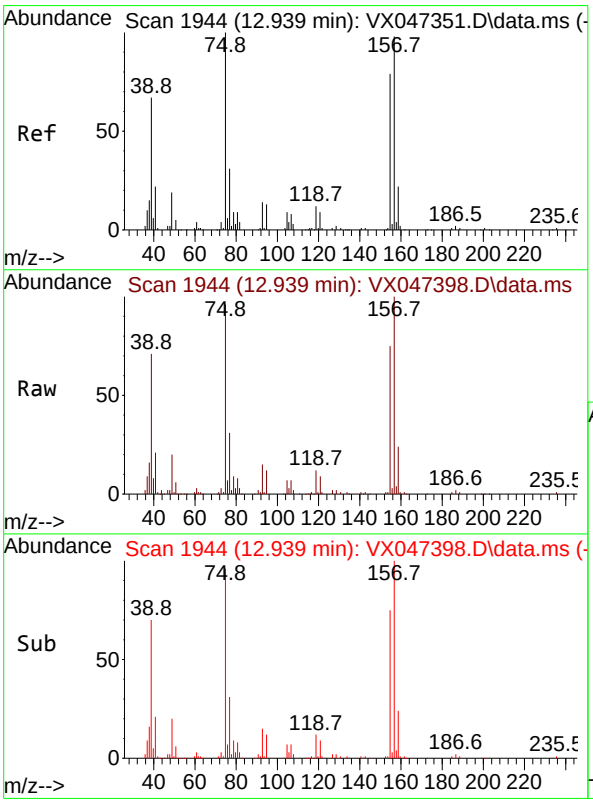
#91
1,2-Dichlorobenzene
Concen: 46.240 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 291404

Ion	Ratio	Lower	Upper
146	100		
111	43.6	22.1	66.1
148	64.5	31.9	95.5

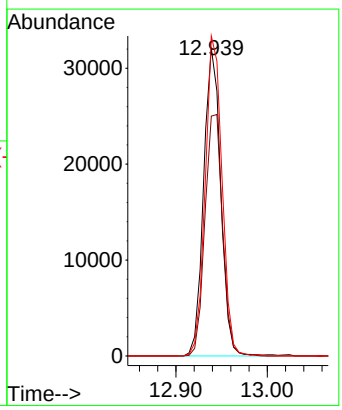


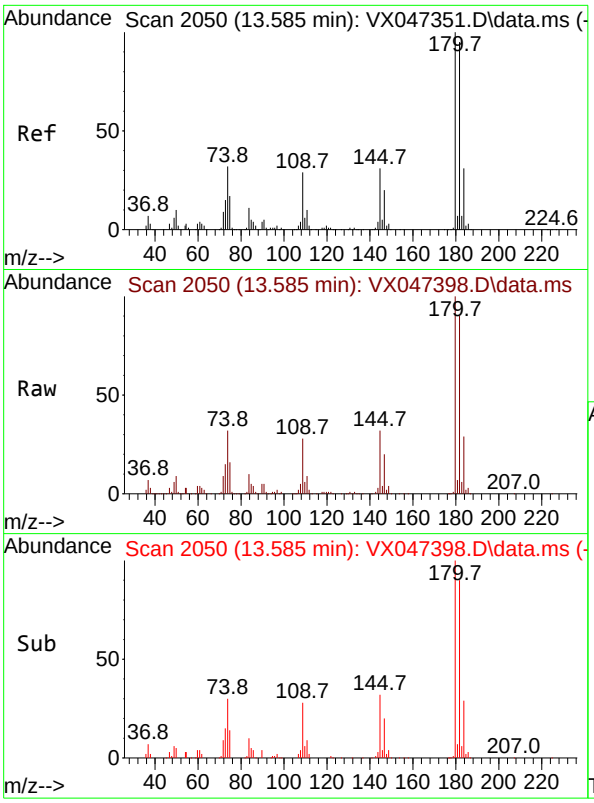


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.455 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion: 75 Resp: 41583

Ion	Ratio	Lower	Upper
75	100		
155	80.9	41.3	123.7
157	102.3	51.5	154.5



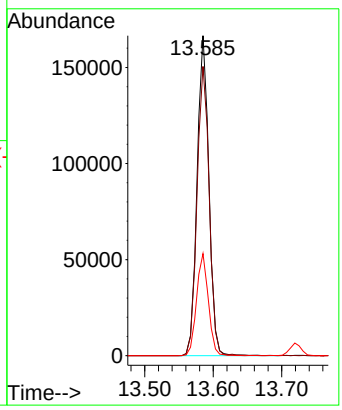


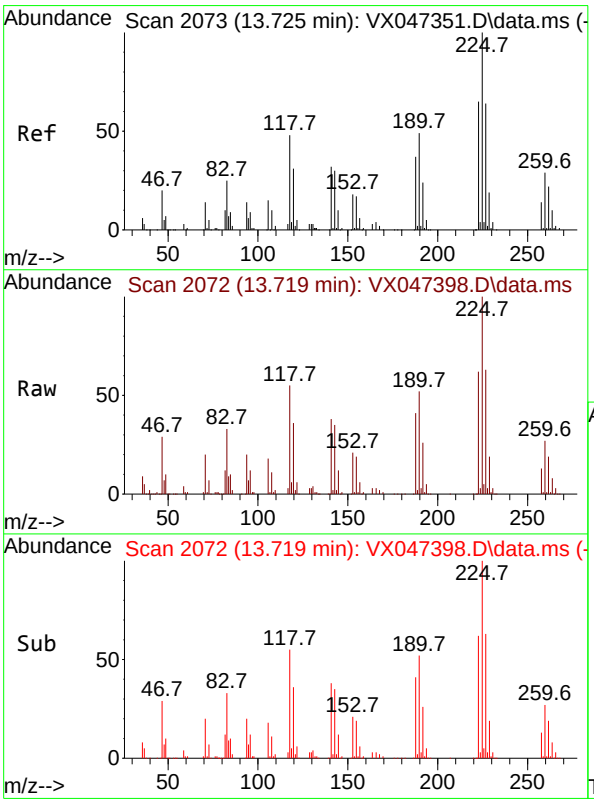
#93
1,2,4-Trichlorobenzene
Concen: 47.190 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 199368

Ion	Ratio	Lower	Upper
180	100		
182	93.2	48.1	144.4
145	31.9	16.2	48.5

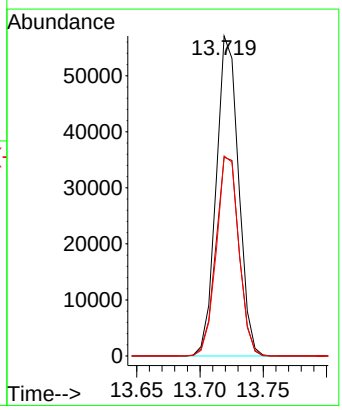


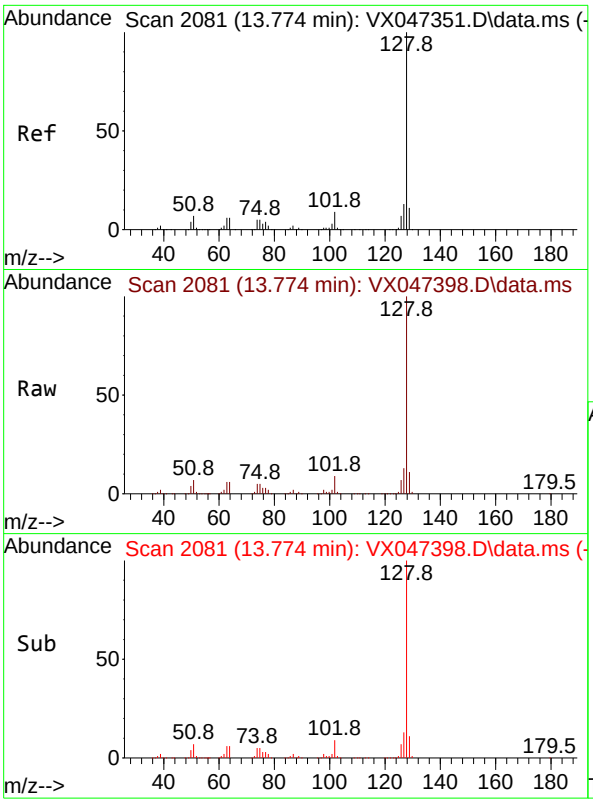


#94
Hexachlorobutadiene
Concen: 46.449 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:225 Resp: 69851

Ion	Ratio	Lower	Upper
225	100		
223	64.3	32.2	96.6
227	63.0	31.6	95.0



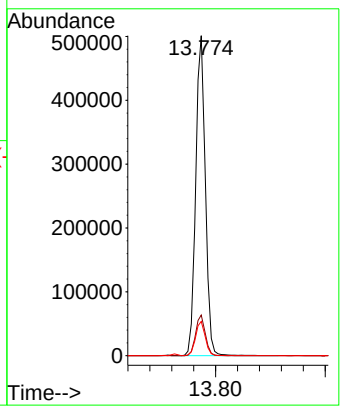


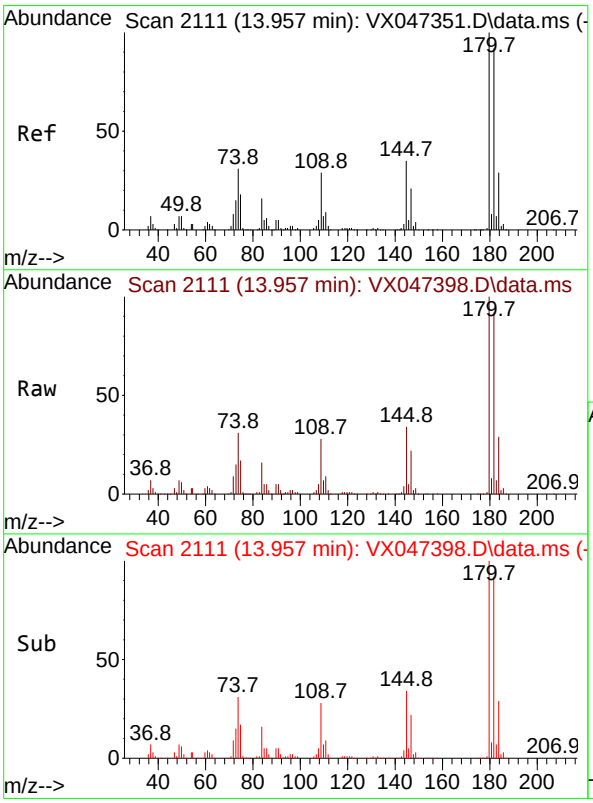
#95
Naphthalene
Concen: 50.928 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 614882

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.8	8.7	13.1

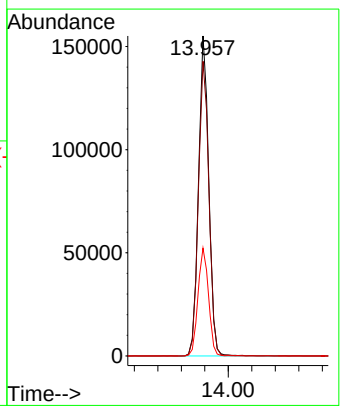




#96
1,2,3-Trichlorobenzene
Concen: 47.311 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047398.D
Acq: 18 Aug 2025 20:57

Tgt Ion:180 Resp: 188409

Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.0	144.2
145	34.6	17.4	52.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	203851	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	365078	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	334051	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	167955	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	164085	57.514	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 115.020%			
35) Dibromofluoromethane	5.391	113	125647	53.029	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.060%			
50) Toluene-d8	8.647	98	428388	50.584	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.160%			
62) 4-Bromofluorobenzene	11.079	95	166205	53.183	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	118983	45.787	ug/l	100
3) Chloromethane	1.313	50	115723	49.503	ug/l	98
4) Vinyl Chloride	1.392	62	134206	45.739	ug/l	93
5) Bromomethane	1.624	94	54388	45.891	ug/l	97
6) Chloroethane	1.703	64	83086	46.281	ug/l	98
7) Trichlorofluoromethane	1.904	101	195173	44.970	ug/l	98
8) Diethyl Ether	2.148	74	84247	55.128	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.343	101	118600	47.108	ug/l	99
10) Methyl Iodide	2.471	142	182007	42.186	ug/l	99
11) Tert butyl alcohol	2.959	59	73438	295.893	ug/l	99
12) 1,1-Dichloroethene	2.337	96	121485	47.332	ug/l	97
13) Acrolein	2.246	56	147637	281.792	ug/l	100
14) Allyl chloride	2.678	41	225494	50.583	ug/l	99
15) Acrylonitrile	3.081	53	342772	285.809	ug/l	100
16) Acetone	2.392	43	286462	267.129	ug/l	99
17) Carbon Disulfide	2.526	76	347652	44.886	ug/l	100
18) Methyl Acetate	2.715	43	158065	56.879	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	434808	55.686	ug/l	98
20) Methylene Chloride	2.800	84	149480	52.640	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	133669	49.068	ug/l	96
22) Diisopropyl ether	3.770	45	486194	55.175	ug/l	95
23) Vinyl Acetate	3.727	43	2049454	283.754	ug/l	100
24) 1,1-Dichloroethane	3.623	63	255069	51.211	ug/l	97
25) 2-Butanone	4.562	43	398410	283.674	ug/l	98
26) 2,2-Dichloropropane	4.483	77	185064	49.229	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	164241	51.764	ug/l	97
28) Bromochloromethane	4.904	49	126113	60.847	ug/l	100
29) Tetrahydrofuran	5.019	42	254725	280.608	ug/l	99
30) Chloroform	5.099	83	265903	52.310	ug/l	98
31) Cyclohexane	5.477	56	202692	44.146	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	212180	48.495	ug/l	99
36) 1,1-Dichloropropene	5.702	75	168226	44.977	ug/l	99
37) Ethyl Acetate	4.721	43	196036	50.486	ug/l	98
38) Carbon Tetrachloride	5.684	117	183778	44.963	ug/l	99
39) Methylcyclohexane	7.385	83	197227	42.274	ug/l	95
40) Benzene	6.044	78	545222	48.701	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	83588	51.049	ug/l		94
42) 1,2-Dichloroethane	6.092	62	204929	51.678	ug/l		99
43) Isopropyl Acetate	6.342	43	298419	53.497	ug/l		100
44) Trichloroethene	7.129	130	131351	45.821	ug/l		93
45) 1,2-Dichloropropane	7.434	63	142494	50.806	ug/l		99
46) Dibromomethane	7.580	93	103627	50.893	ug/l		99
47) Bromodichloromethane	7.824	83	215133	50.965	ug/l		99
48) Methyl methacrylate	7.690	41	154171	53.246	ug/l		99
49) 1,4-Dioxane	7.684	88	32666	1160.527	ug/l		96
51) 4-Methyl-2-Pentanone	8.574	43	875170	272.635	ug/l		99
52) Toluene	8.720	92	333637	48.228	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	201870	54.796	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	220487	52.876	ug/l		99
55) 1,1,2-Trichloroethane	9.153	97	137274	52.264	ug/l		96
56) Ethyl methacrylate	9.116	69	211825	54.700	ug/l		99
57) 1,3-Dichloropropane	9.305	76	233945	52.271	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	493500	266.315	ug/l		99
59) 2-Hexanone	9.427	43	601025	270.676	ug/l		100
60) Dibromochloromethane	9.519	129	162215	51.968	ug/l		99
61) 1,2-Dibromoethane	9.610	107	141178	52.124	ug/l		100
64) Tetrachloroethene	9.275	164	106511	44.081	ug/l		98
65) Chlorobenzene	10.080	112	376884	47.476	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	132983	49.556	ug/l		99
67) Ethyl Benzene	10.195	91	642247	47.006	ug/l		100
68) m/p-Xylenes	10.299	106	484787	95.157	ug/l		100
69) o-Xylene	10.640	106	233222	47.570	ug/l		99
70) Styrene	10.653	104	417727	50.426	ug/l		100
71) Bromoform	10.799	173	105509	52.336	ug/l	#	99
73) Isopropylbenzene	10.957	105	594503	45.232	ug/l		99
74) N-amyl acetate	10.842	43	263829	52.861	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	194960	50.522	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	179899	58.400	ug/l		91
77) Bromobenzene	11.195	156	157141	48.962	ug/l		98
78) n-propylbenzene	11.299	91	717602	45.715	ug/l		100
79) 2-Chlorotoluene	11.360	91	438581	46.220	ug/l		99
80) 1,3,5-Trimethylbenzene	11.445	105	505924	46.784	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	30598	44.250	ug/l		100
82) 4-Chlorotoluene	11.451	91	521477	46.620	ug/l		100
83) tert-Butylbenzene	11.713	119	507953	47.081	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	513998	47.529	ug/l		99
85) sec-Butylbenzene	11.890	105	609145	45.552	ug/l		100
86) p-Isopropyltoluene	12.006	119	514402	45.458	ug/l		99
87) 1,3-Dichlorobenzene	11.963	146	285904	46.630	ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	291680	46.253	ug/l		100
89) n-Butylbenzene	12.329	91	480705	45.672	ug/l		100
90) Hexachloroethane	12.536	117	91716	46.201	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	278982	47.938	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	37258	49.925	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	187378	48.028	ug/l		99
94) Hexachlorobutadiene	13.725	225	63372	45.633	ug/l		100
95) Naphthalene	13.774	128	571033	51.217	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	181090	49.242	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

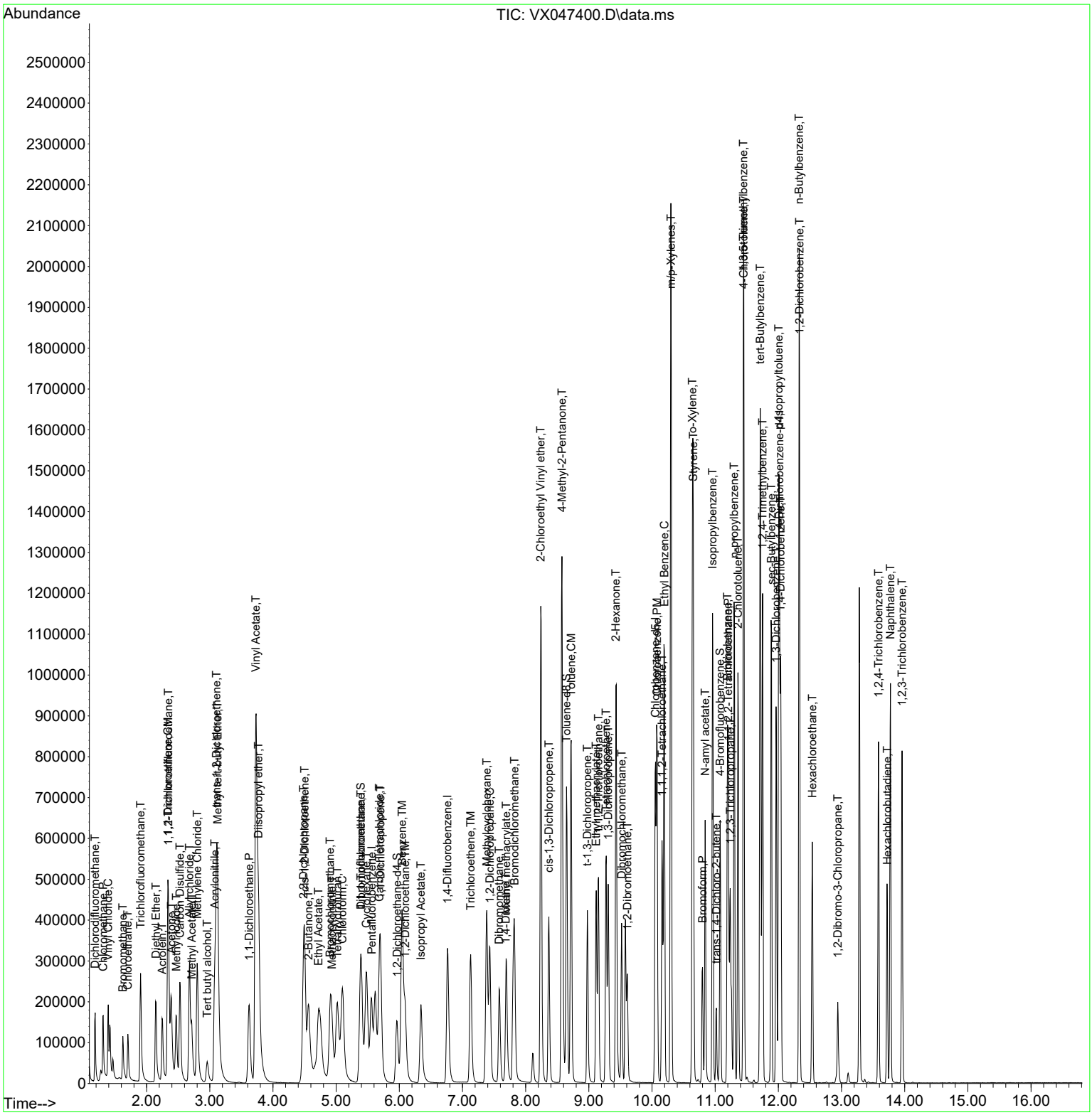
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

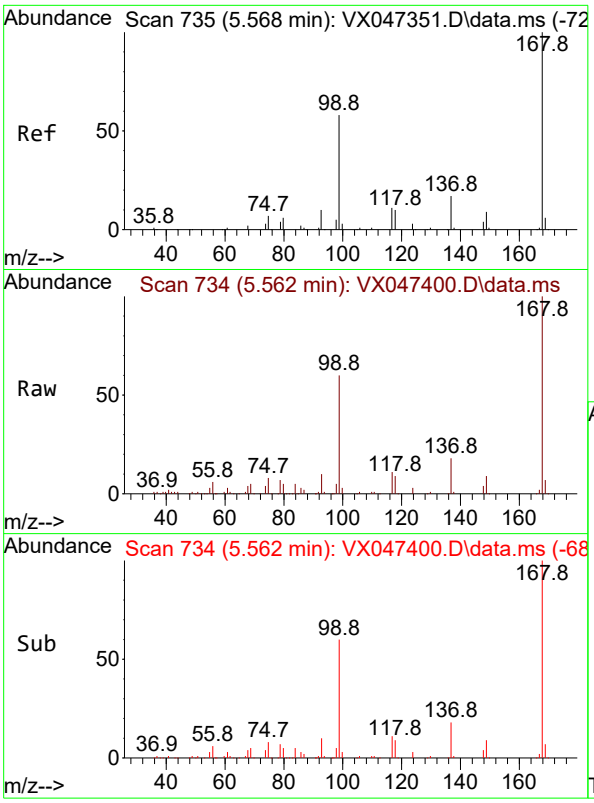
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



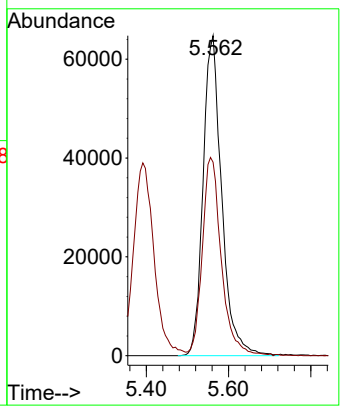


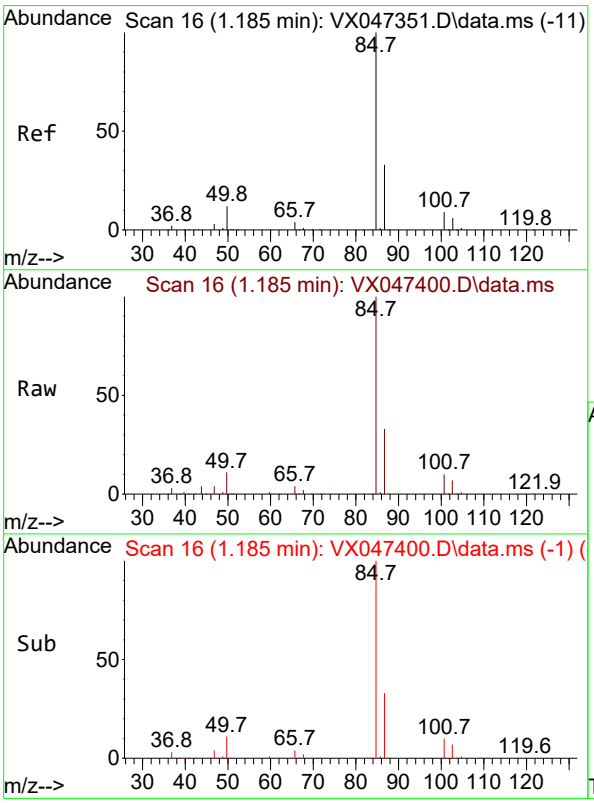
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 203851

Ion	Ratio	Lower	Upper
168	100		
99	60.1	47.9	71.9

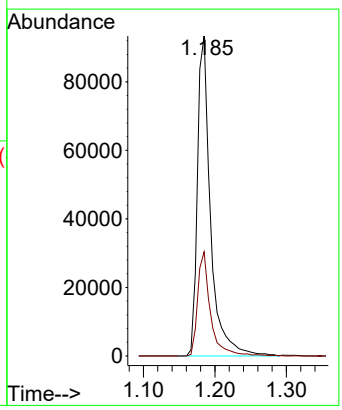


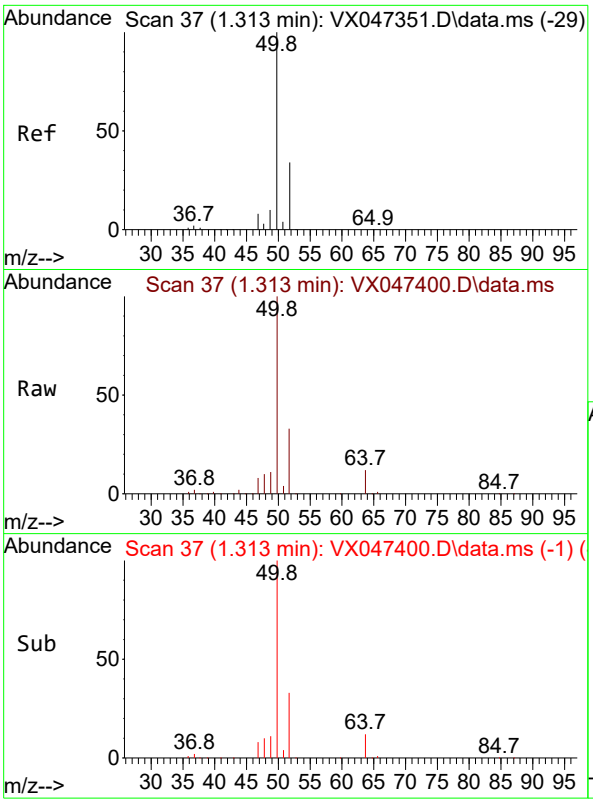


#2
Dichlorodifluoromethane
Concen: 45.787 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 85 Resp: 118983

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.4	49.1



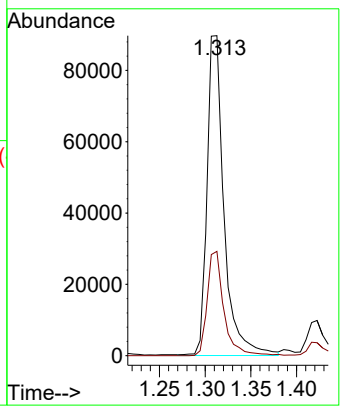


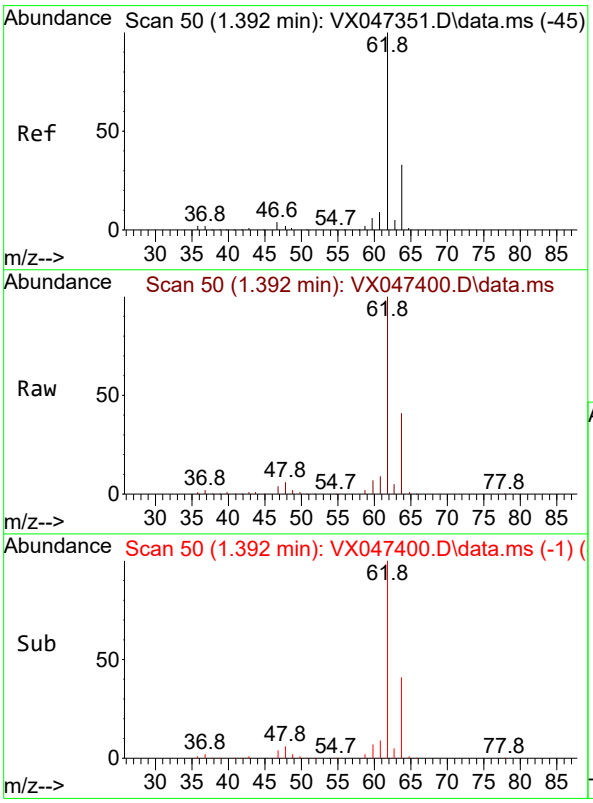
#3
Chloromethane
Concen: 49.503 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 115723

Ion	Ratio	Lower	Upper
50	100		
52	32.7	27.0	40.4

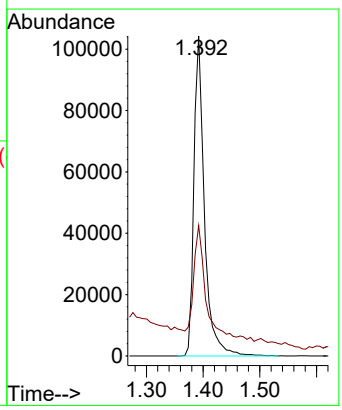


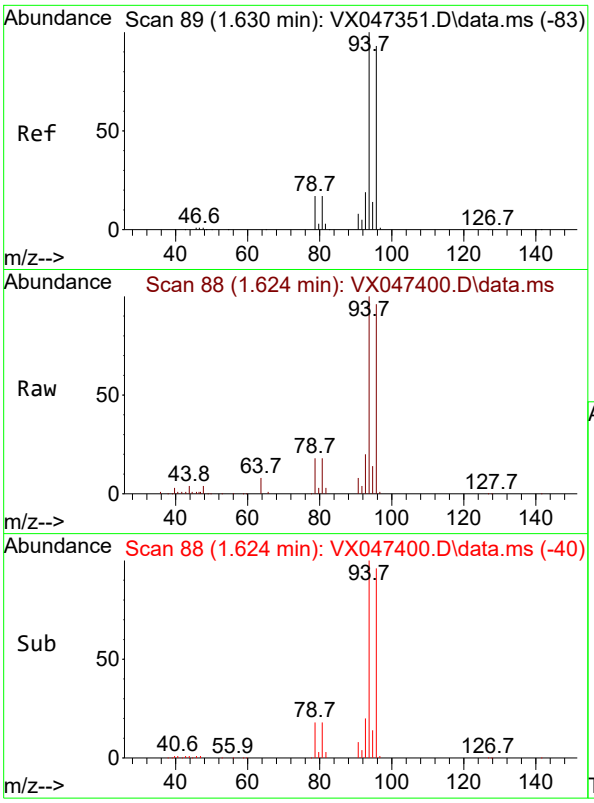


#4
Vinyl Chloride
Concen: 45.739 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 62 Resp: 134206

Ion	Ratio	Lower	Upper
62	100		
64	36.9	26.5	39.7



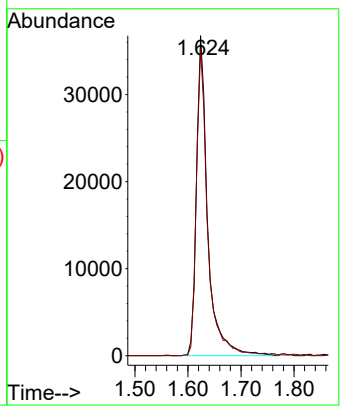


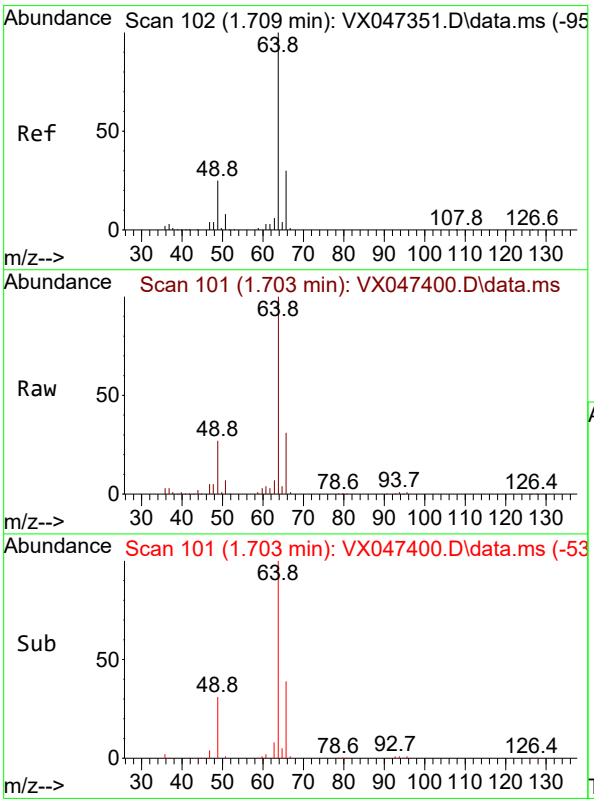
#5
Bromomethane
Concen: 45.891 ug/l
RT: 1.624 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 54388

Ion	Ratio	Lower	Upper
94	100		
96	95.9	74.7	112.1

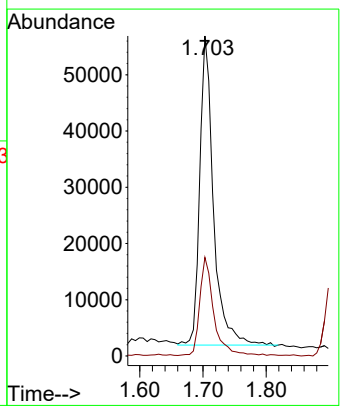


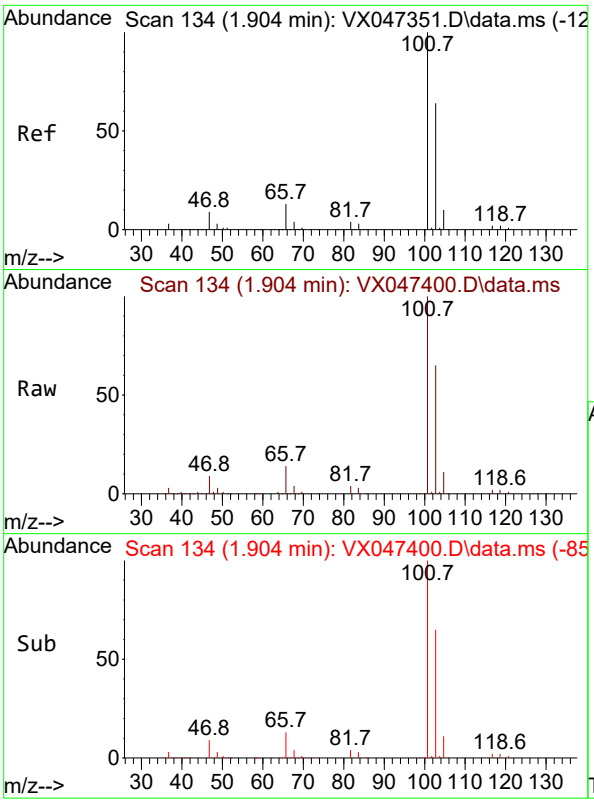


#6
Chloroethane
Concen: 46.281 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 64 Resp: 83086

Ion	Ratio	Lower	Upper
64	100		
66	31.7	24.4	36.6



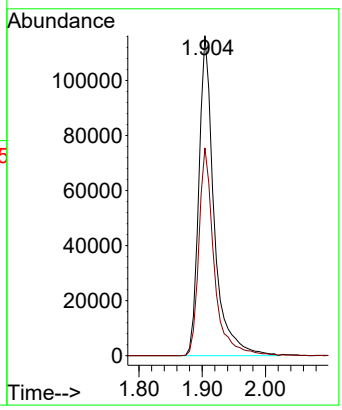


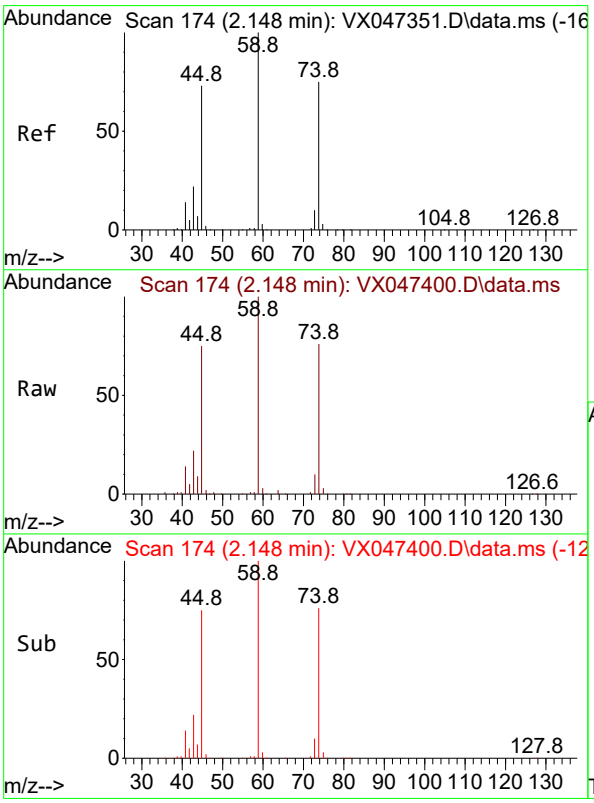
#7
Trichlorofluoromethane
Concen: 44.970 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 195173

Ion	Ratio	Lower	Upper
101	100		
103	65.0	50.9	76.3

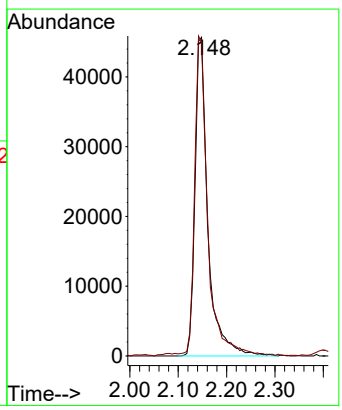


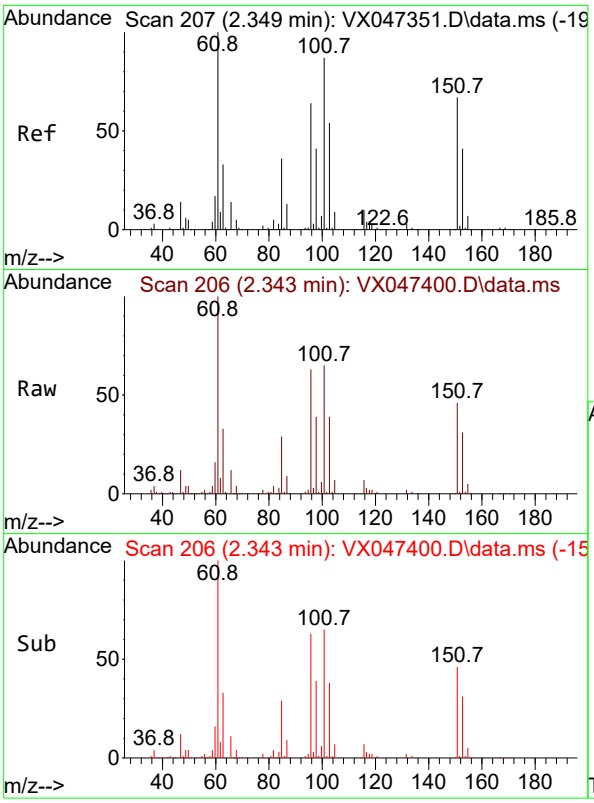


#8
Diethyl Ether
Concen: 55.128 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 74 Resp: 84247

Ion	Ratio	Lower	Upper
74	100		
45	99.3	51.3	154.0



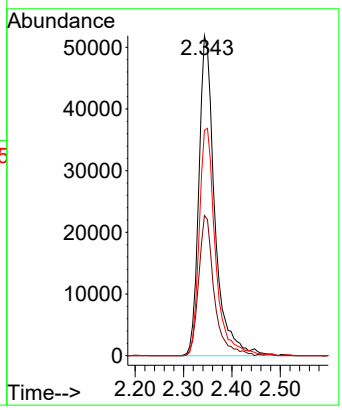


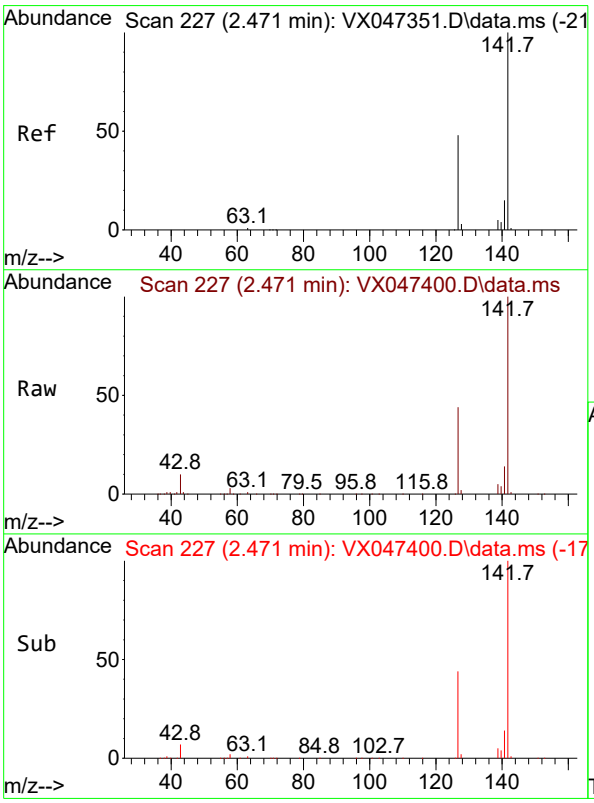
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.108 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 118600

Ion	Ratio	Lower	Upper
101	100		
85	42.9	34.3	51.5
151	72.7	59.2	88.8

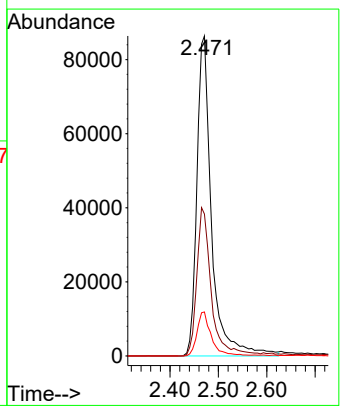


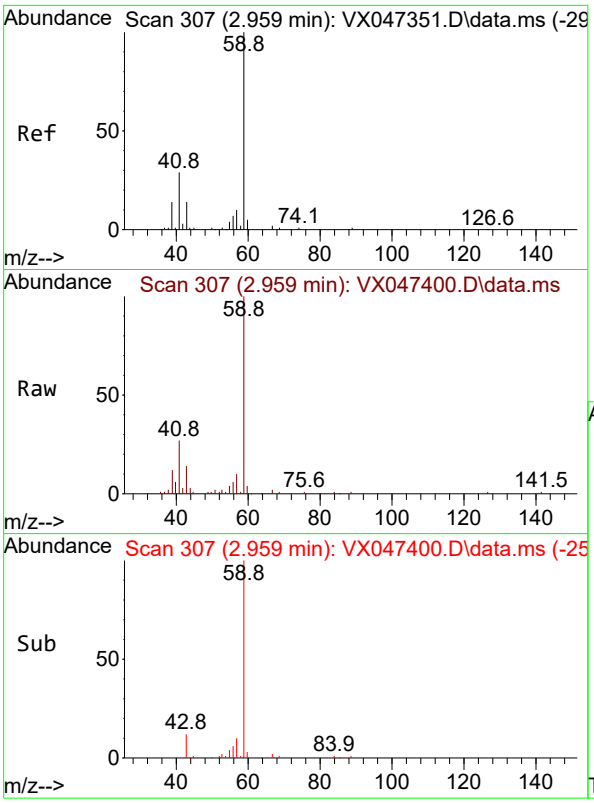


#10
Methyl Iodide
Concen: 42.186 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:142 Resp: 182007

Ion	Ratio	Lower	Upper
142	100		
127	45.8	36.1	54.1
141	13.4	11.1	16.7



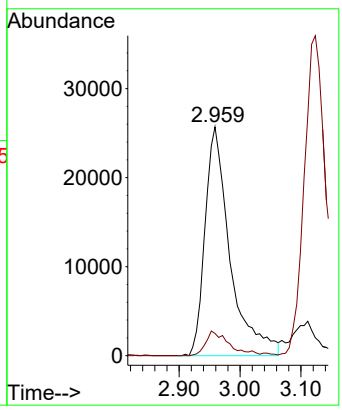


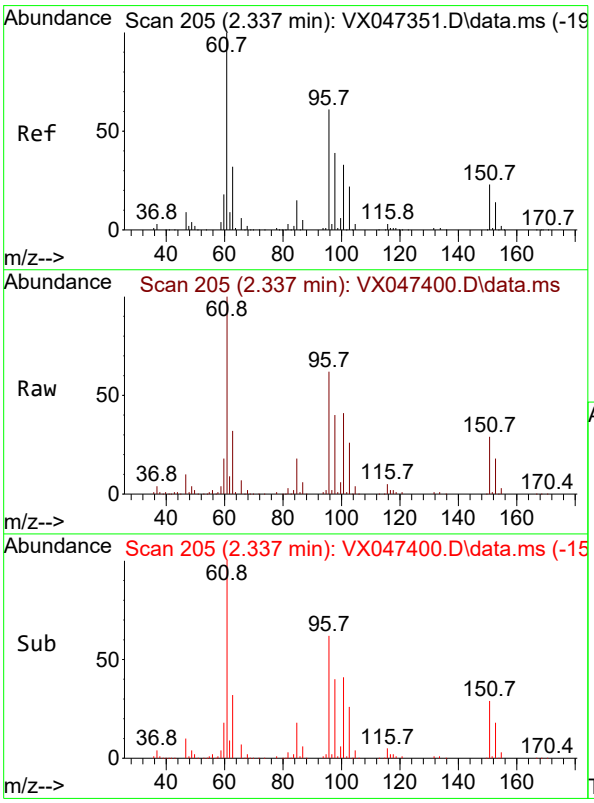
#11
Tert butyl alcohol
Concen: 295.893 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 73438

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.3	12.5

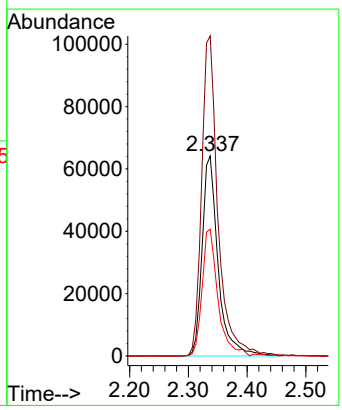


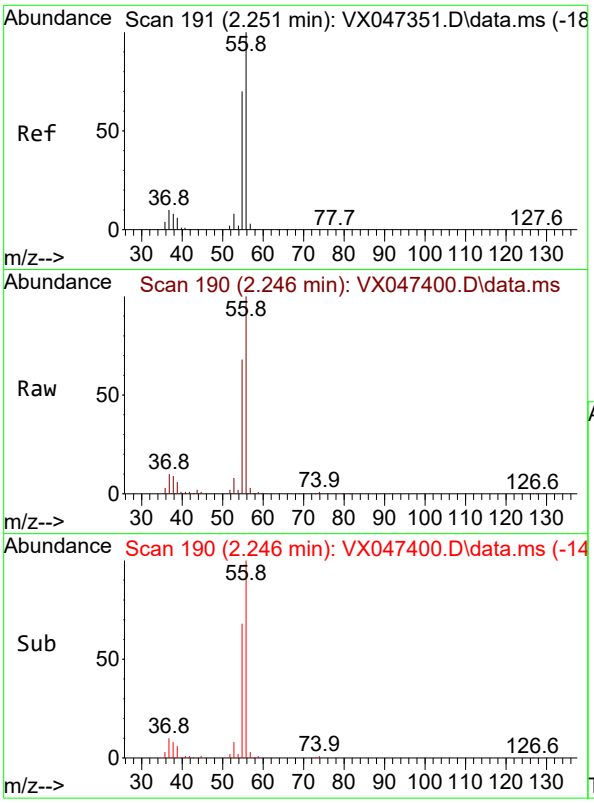


#12
1,1-Dichloroethene
Concen: 47.332 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 96 Resp: 121485

Ion	Ratio	Lower	Upper
96	100		
61	160.1	132.2	198.2
98	63.4	51.2	76.8



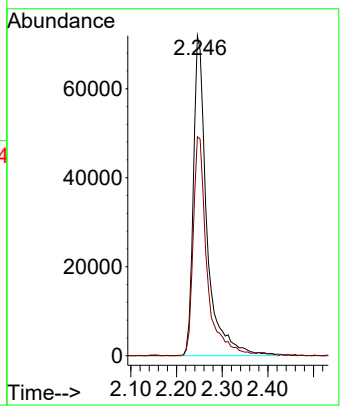


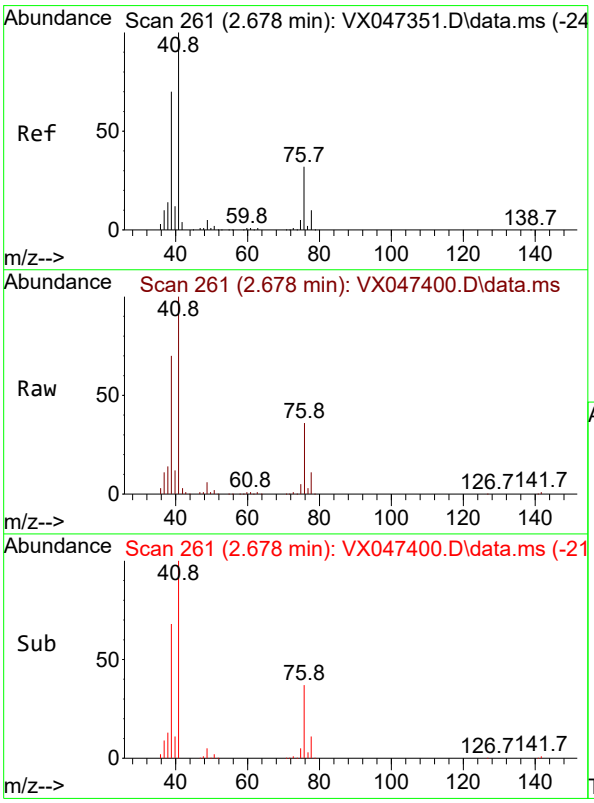
#13
Acrolein
Concen: 281.792 ug/l
RT: 2.246 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 147637

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.5	83.3

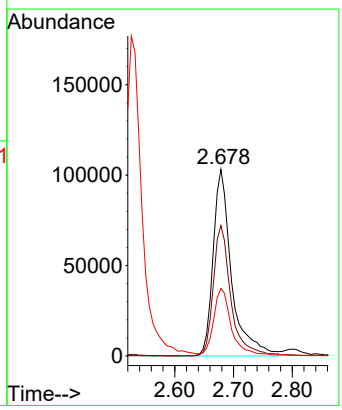


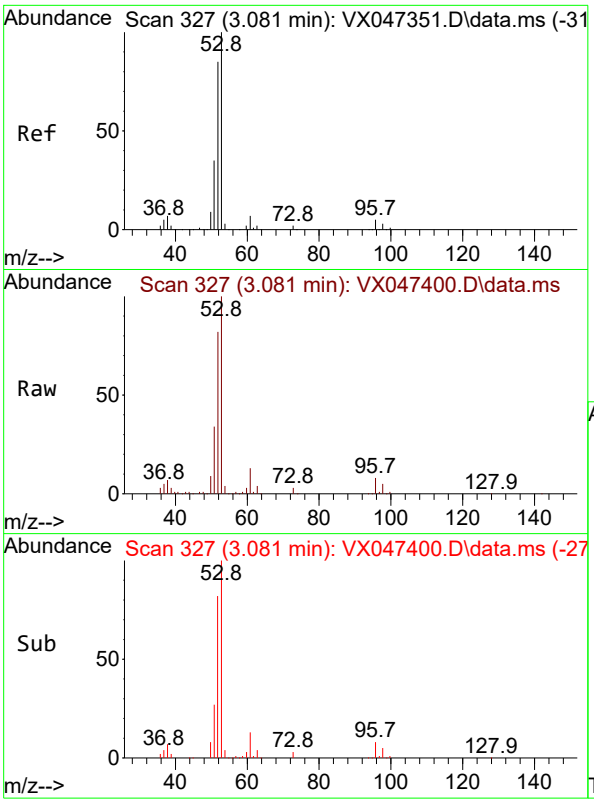


#14
Allyl chloride
Concen: 50.583 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 41 Resp: 225494

Ion	Ratio	Lower	Upper
41	100		
39	67.2	54.6	81.8
76	34.9	27.6	41.4



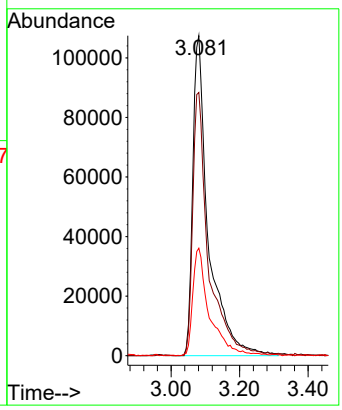


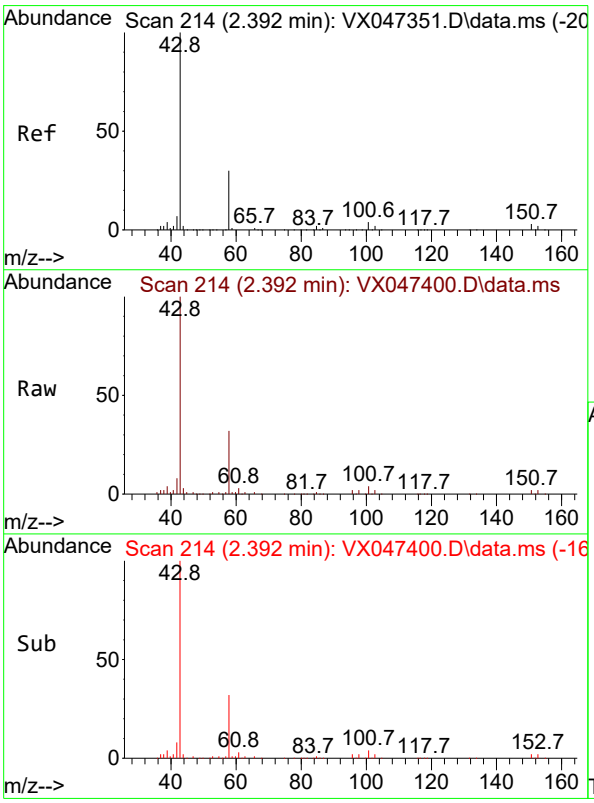
#15
Acrylonitrile
Concen: 285.809 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 342772

Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.8	98.6
51	35.6	28.2	42.2

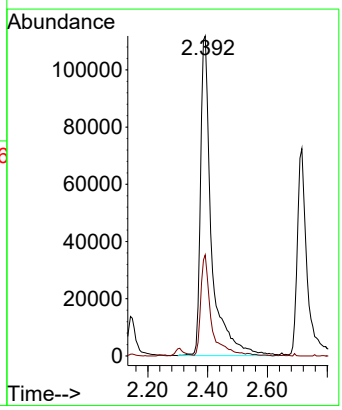


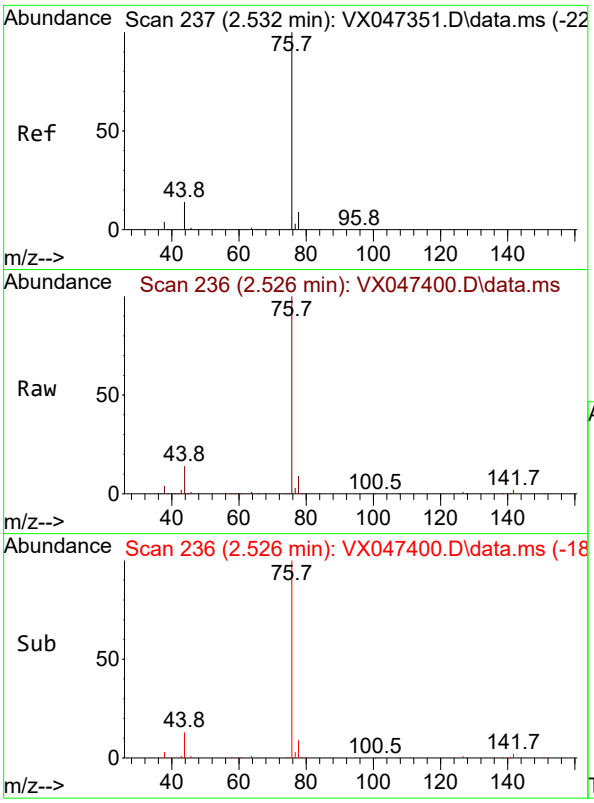


#16
Acetone
Concen: 267.129 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 286462

Ion	Ratio	Lower	Upper
43	100		
58	31.5	24.8	37.2



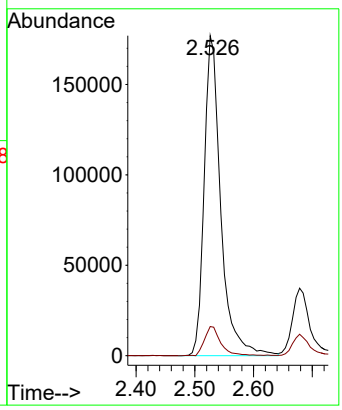


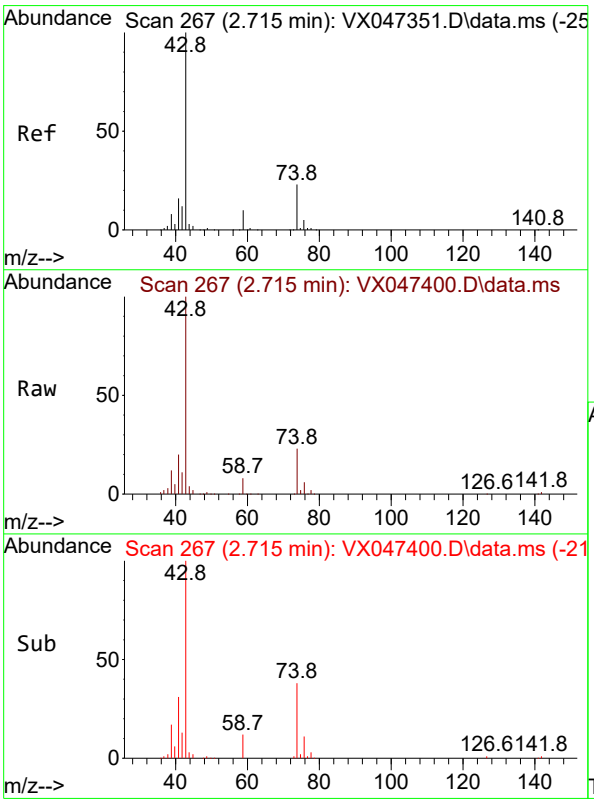
#17
Carbon Disulfide
Concen: 44.886 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 347652

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

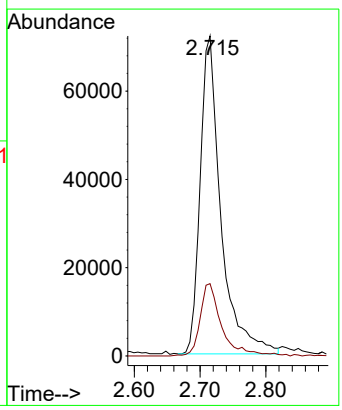


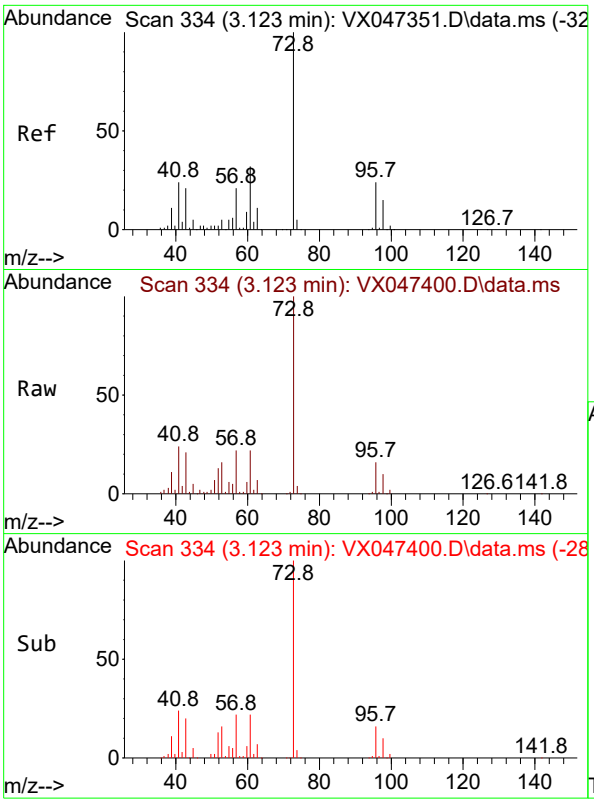


#18
Methyl Acetate
Concen: 56.879 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 158065

Ion	Ratio	Lower	Upper
43	100		
74	23.6	18.4	27.6



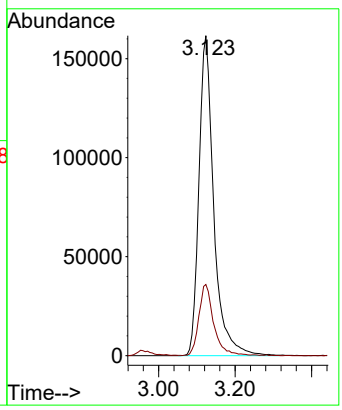


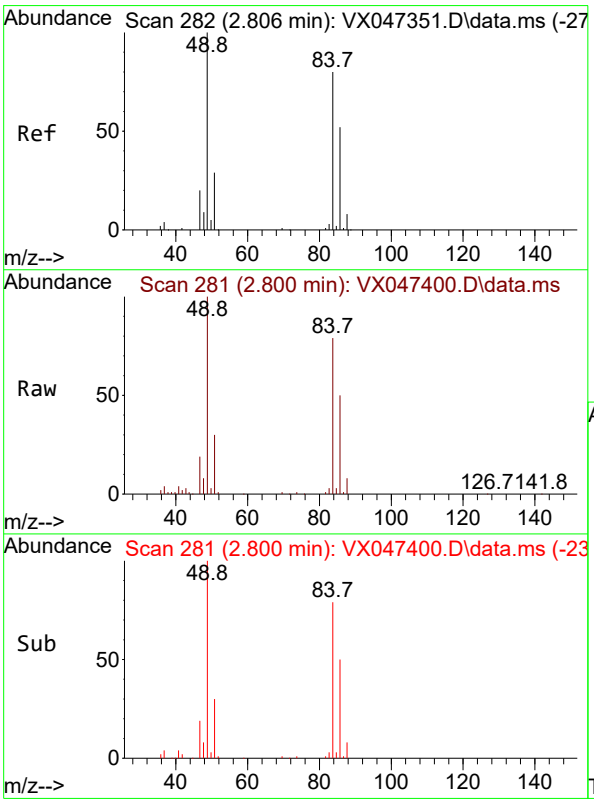
#19
Methyl tert-butyl Ether
Concen: 55.686 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 434808

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.0	25.6

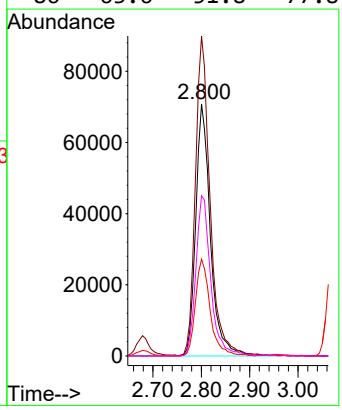


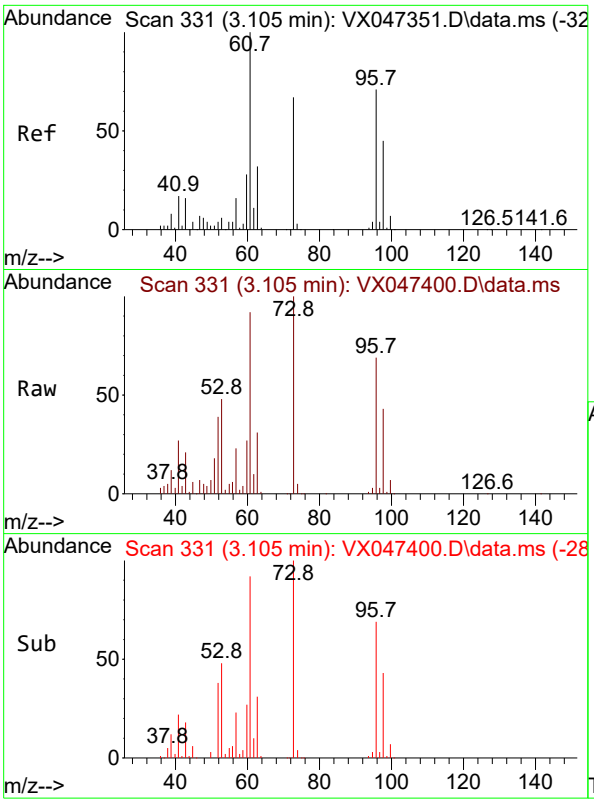


#20
Methylene Chloride
Concen: 52.640 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 84 Resp: 149480

Ion	Ratio	Lower	Upper
84	100		
49	126.9	100.1	150.1
51	38.3	29.5	44.3
86	63.6	51.8	77.8



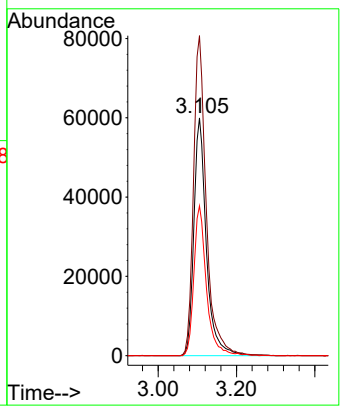


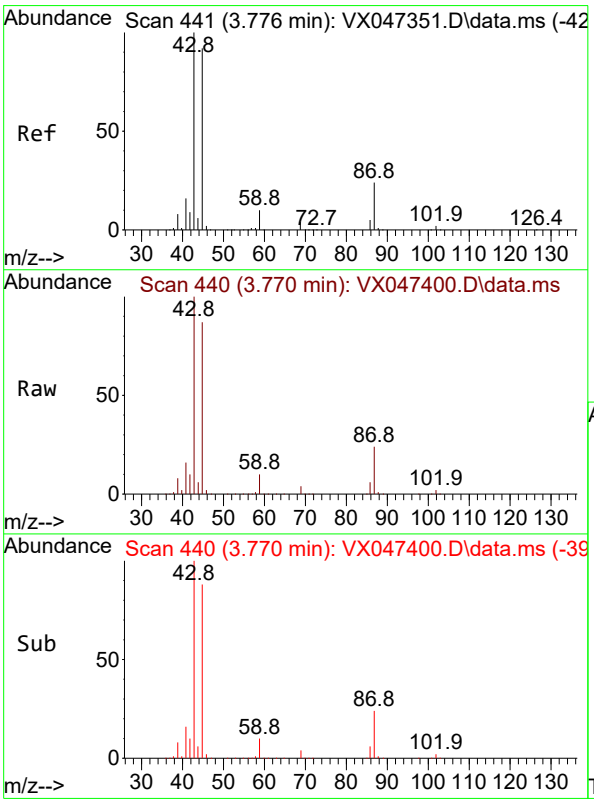
#21
trans-1,2-Dichloroethene
Concen: 49.068 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 133669

Ion	Ratio	Lower	Upper
96	100		
61	134.6	112.6	169.0
98	63.0	50.9	76.3

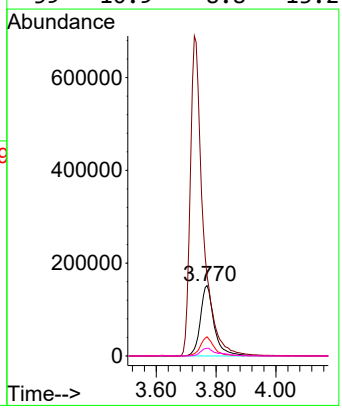


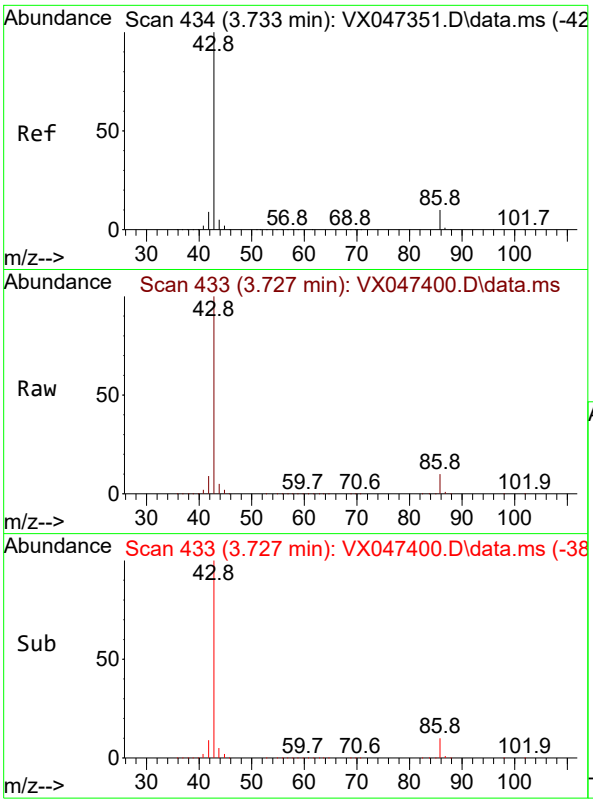


#22
Diisopropyl ether
Concen: 55.175 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 45 Resp: 486194

Ion	Ratio	Lower	Upper
45	100		
43	114.3	86.8	130.2
87	27.2	20.4	30.6
59	10.9	8.8	13.2



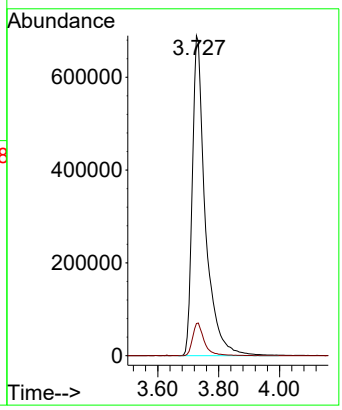


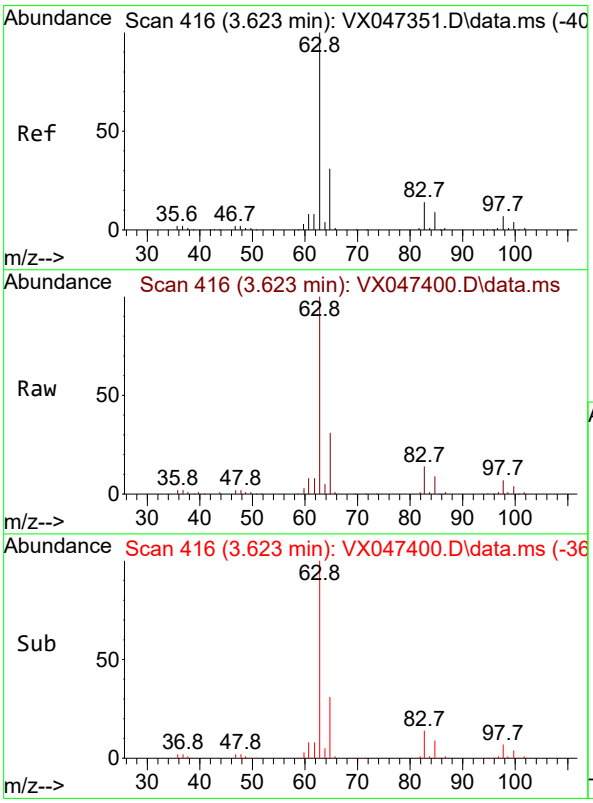
#23
Vinyl Acetate
Concen: 283.754 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2049454

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.9	11.9

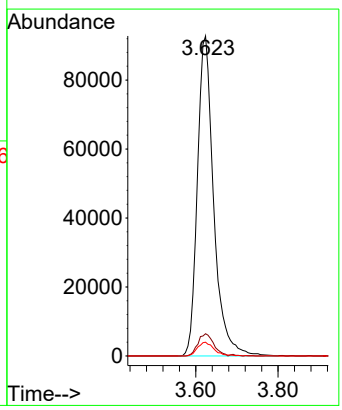


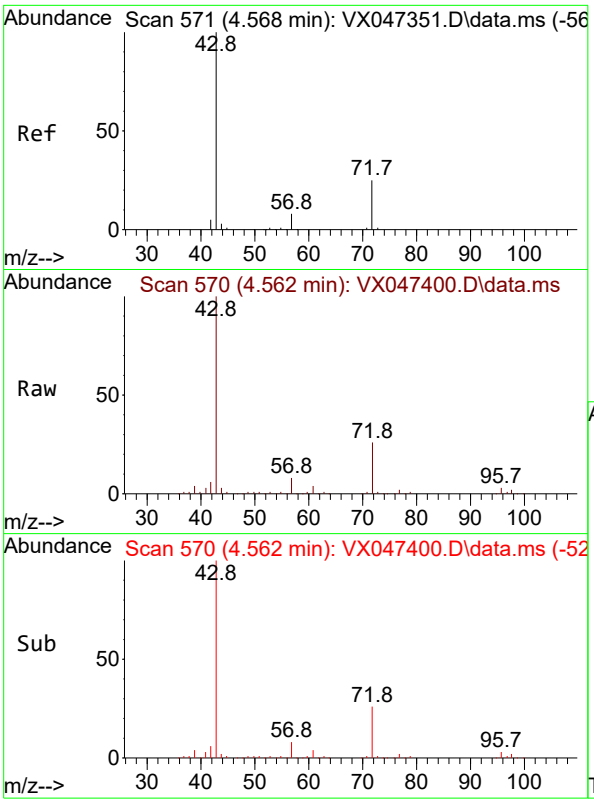


#24
1,1-Dichloroethane
Concen: 51.211 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 63 Resp: 255069

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.3	9.9
100	4.6	2.1	6.3



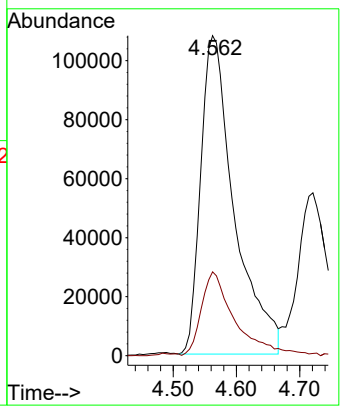


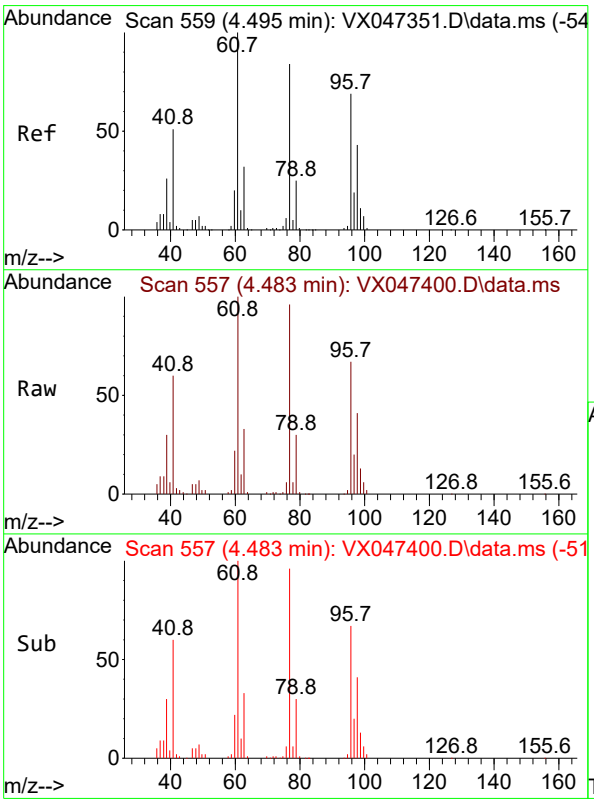
#25
2-Butanone
Concen: 283.674 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 398410

Ion	Ratio	Lower	Upper
43	100		
72	25.7	19.8	29.8

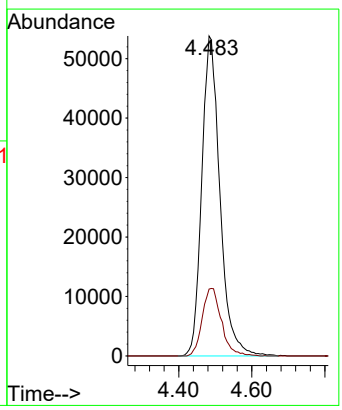


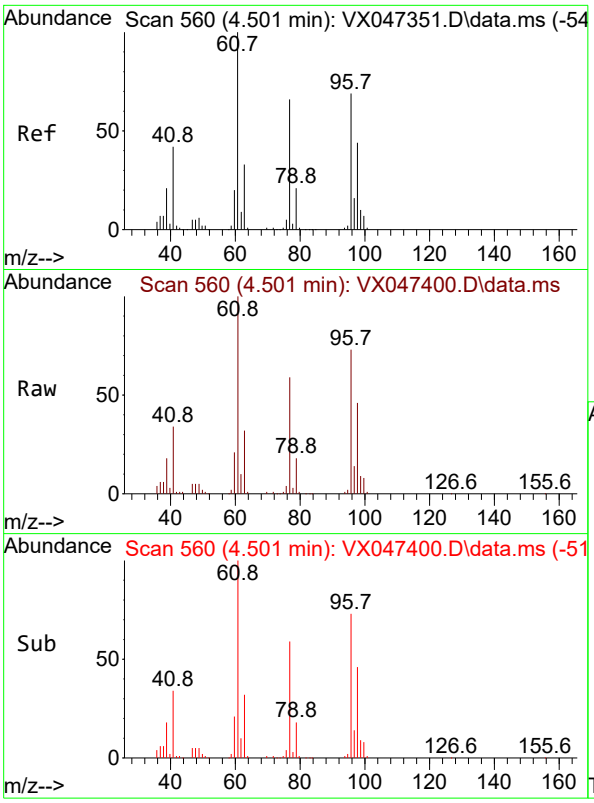


#26
2,2-Dichloropropane
Concen: 49.229 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.012 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 77 Resp: 185064

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.4	34.1



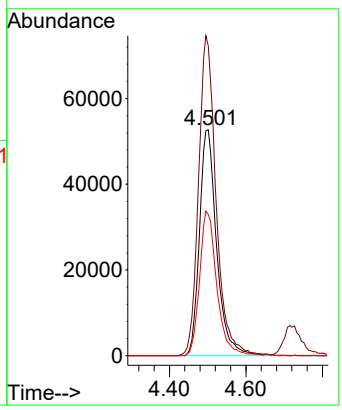


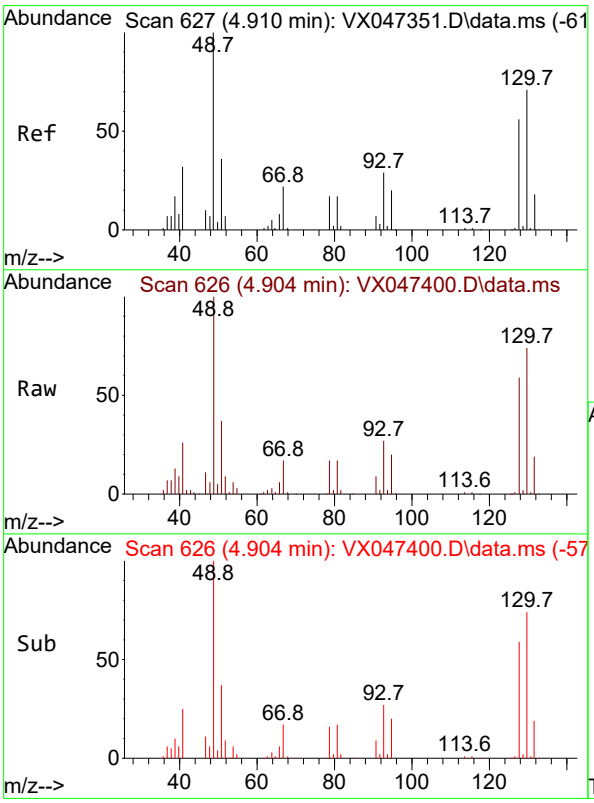
#27
cis-1,2-Dichloroethene
Concen: 51.764 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 164241

Ion	Ratio	Lower	Upper
96	100		
61	144.5	0.0	296.6
98	63.7	0.0	130.4

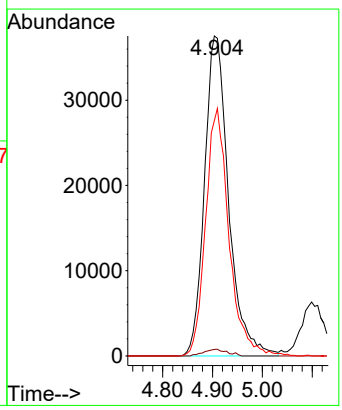


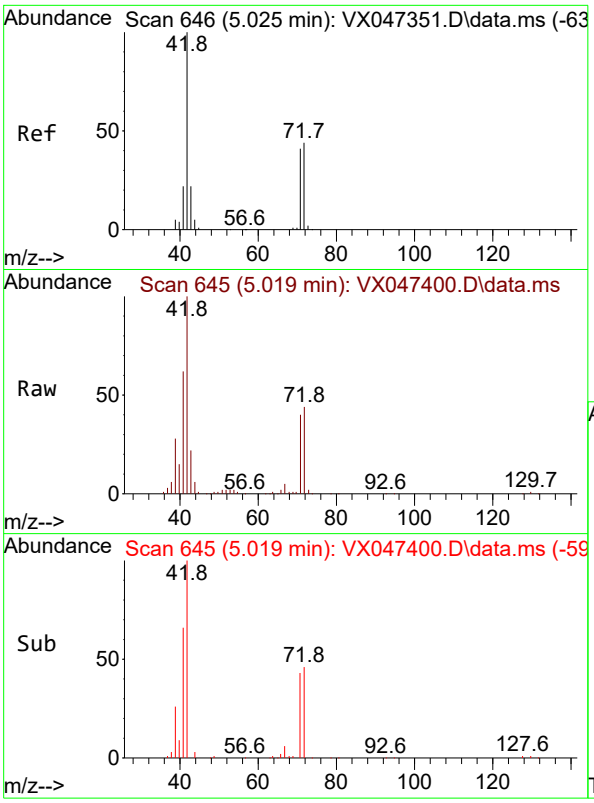


#28
Bromochloromethane
Concen: 60.847 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 49 Resp: 126113

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	74.9	59.8	89.6



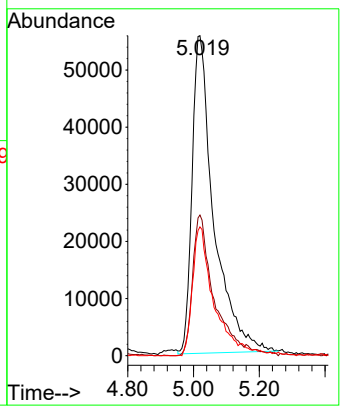


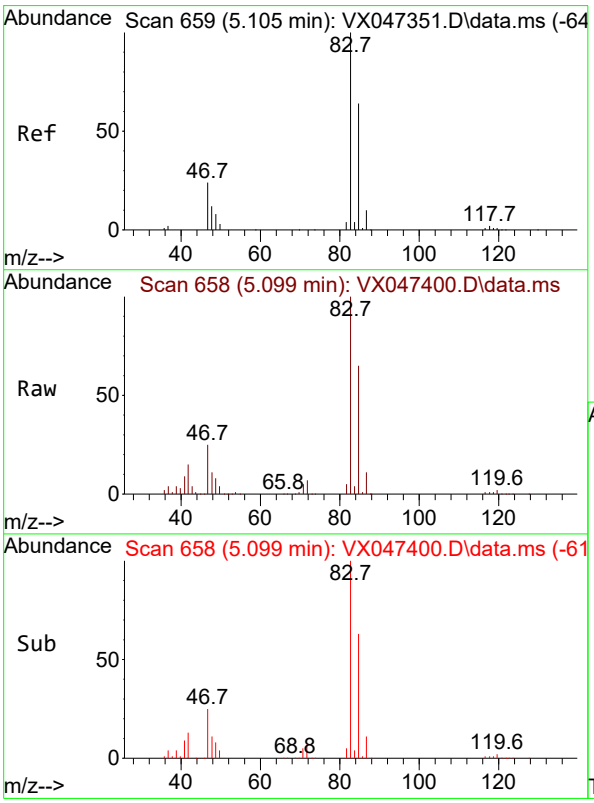
#29
Tetrahydrofuran
Concen: 280.608 ug/l
RT: 5.019 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 254725

Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.6	51.8
71	40.1	32.6	49.0

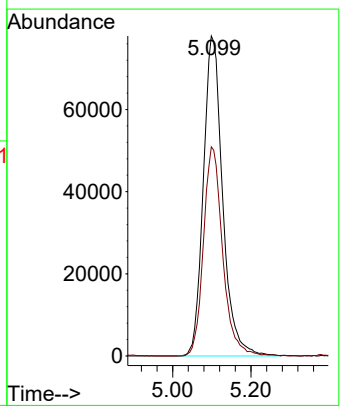


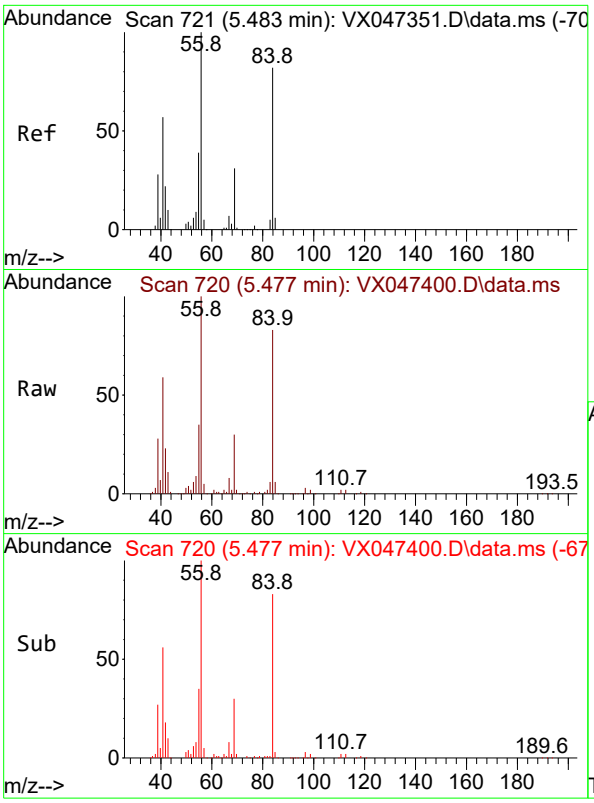


#30
Chloroform
Concen: 52.310 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 83 Resp: 265903

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.2	76.8



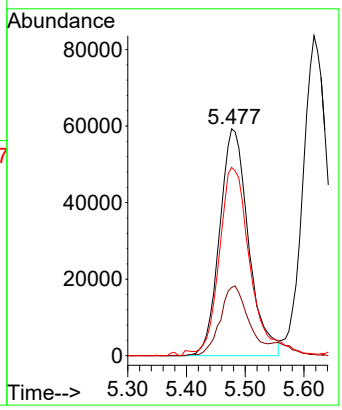


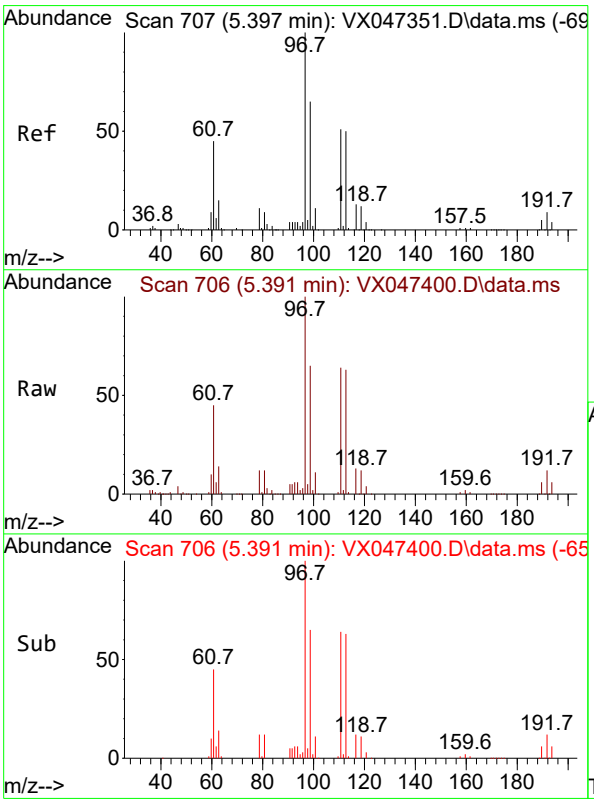
#31
Cyclohexane
Concen: 44.146 ug/l
RT: 5.477 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 202692

Ion	Ratio	Lower	Upper
56	100		
69	32.0	24.3	36.5
84	82.7	65.3	97.9

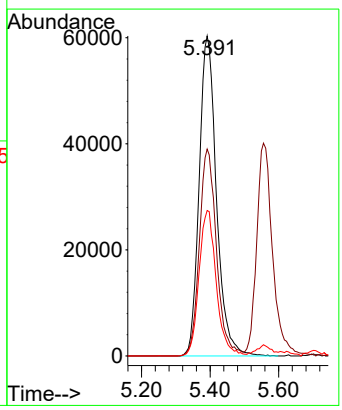


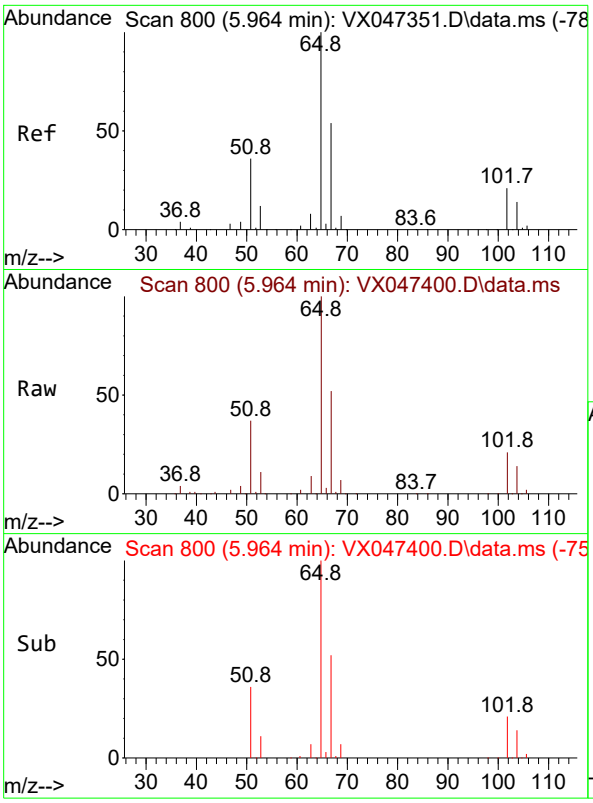


#32
1,1,1-Trichloroethane
Concen: 48.495 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 97 Resp: 212180

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.4	77.0
61	45.4	35.7	53.5



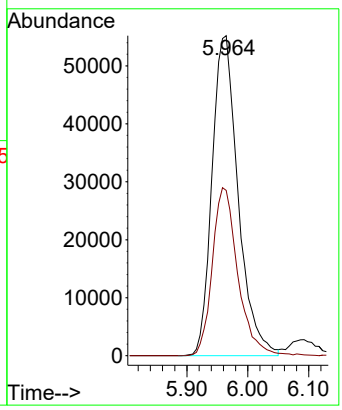


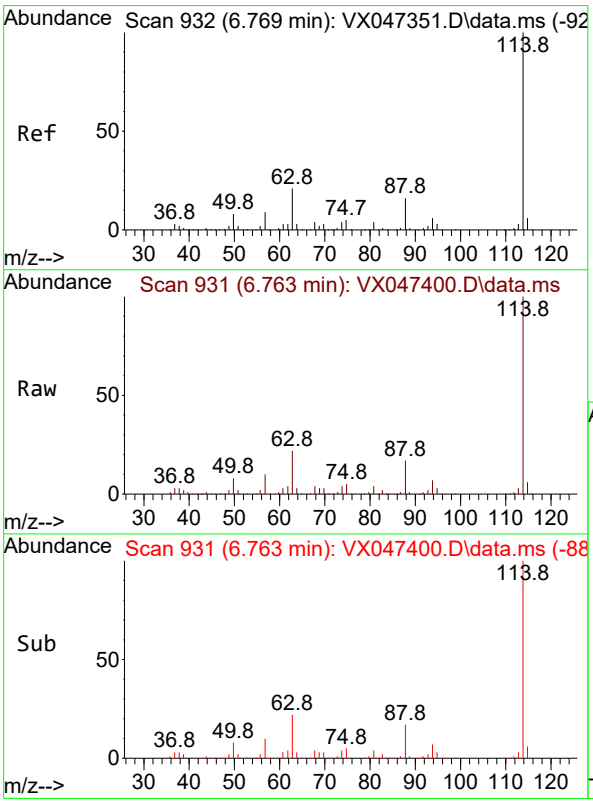
#33
1,2-Dichloroethane-d4
Concen: 57.514 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 164085

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	106.0

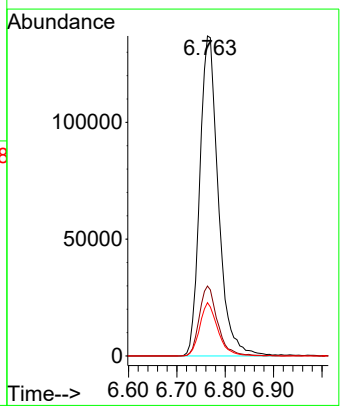


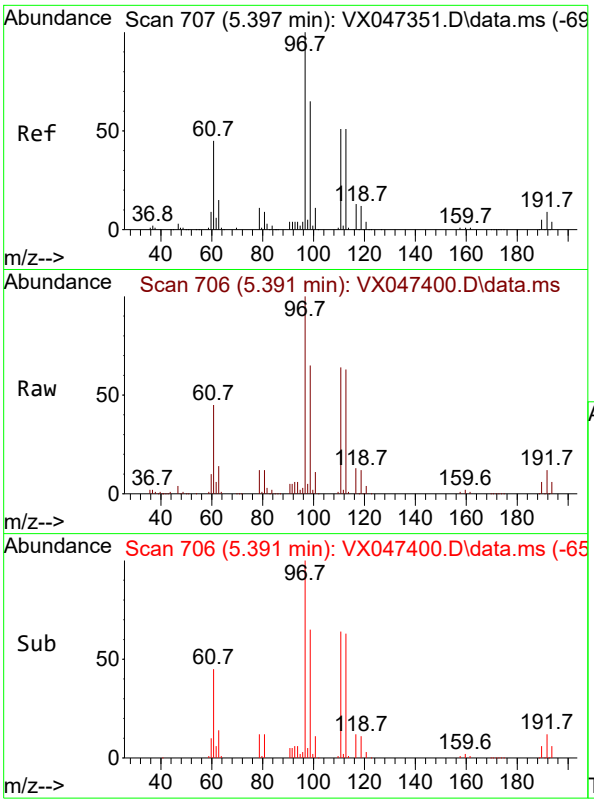


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:114 Resp: 365078

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	42.4
88	16.6	0.0	33.0



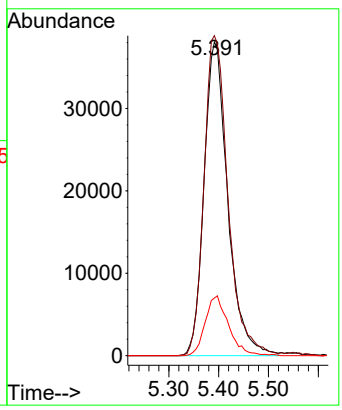


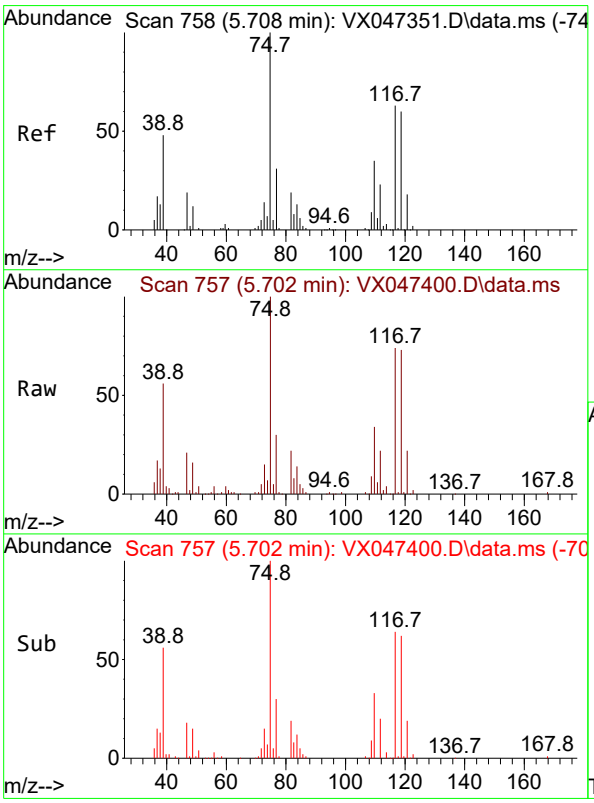
#35
Dibromofluoromethane
Concen: 53.029 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 125647

Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.4	122.2
192	18.8	14.1	21.1

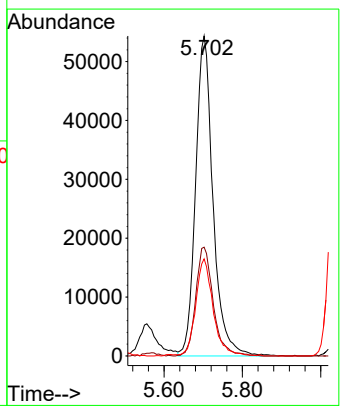


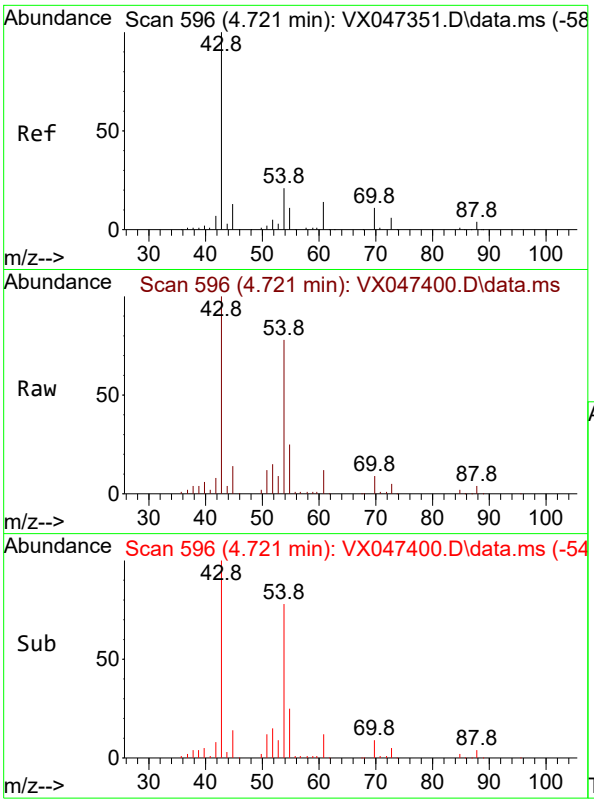


#36
1,1-Dichloropropene
Concen: 44.977 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 75 Resp: 168226

Ion	Ratio	Lower	Upper
75	100		
110	34.3	17.4	52.2
77	29.9	24.4	36.6



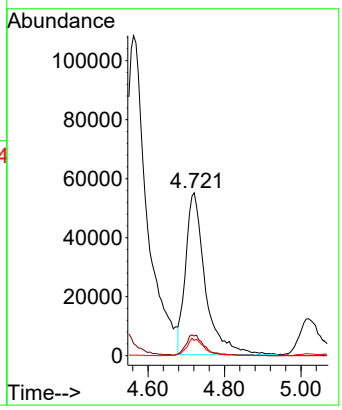


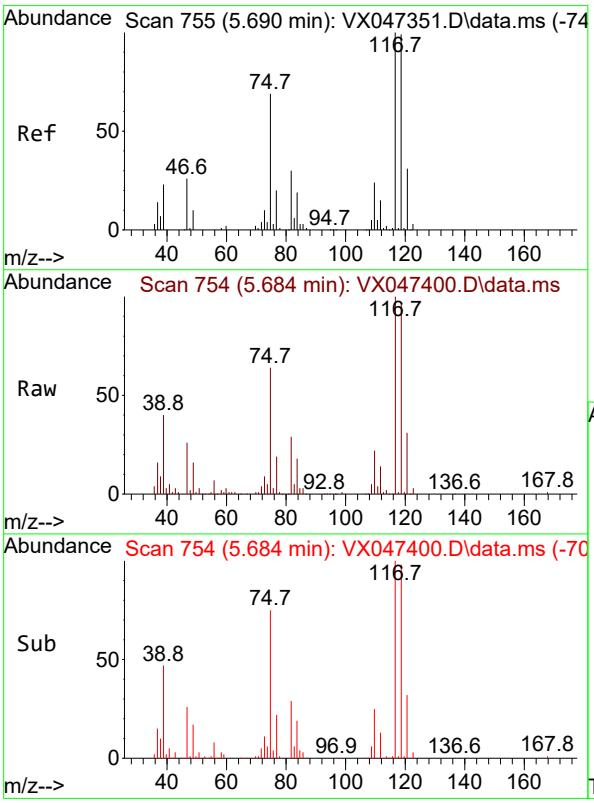
#37
Ethyl Acetate
Concen: 50.486 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 196036

Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.4	14.2
70	9.4	7.0	10.6

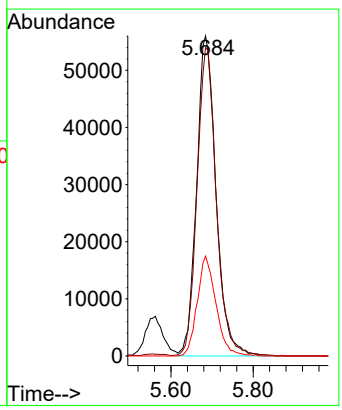


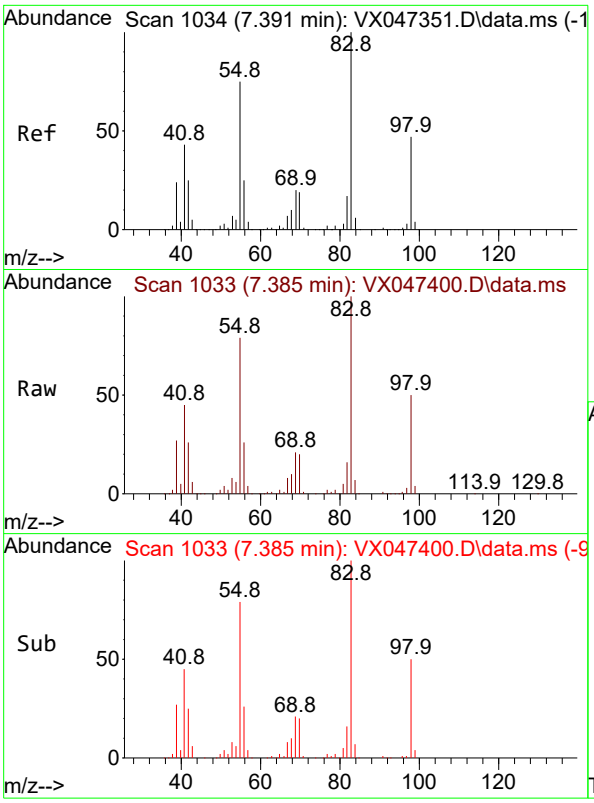


#38
Carbon Tetrachloride
Concen: 44.963 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:117 Resp: 183778

Ion	Ratio	Lower	Upper
117	100		
119	96.3	78.5	117.7
121	31.2	24.7	37.1



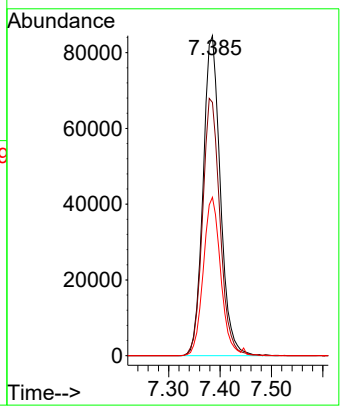


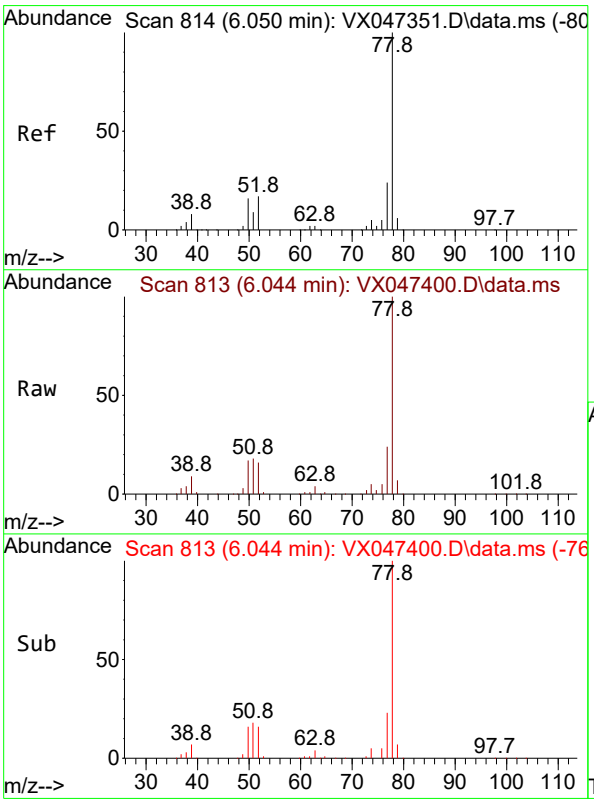
#39
Methylcyclohexane
Concen: 42.274 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 197227

Ion	Ratio	Lower	Upper
83	100		
55	79.1	60.0	90.0
98	49.5	37.2	55.8

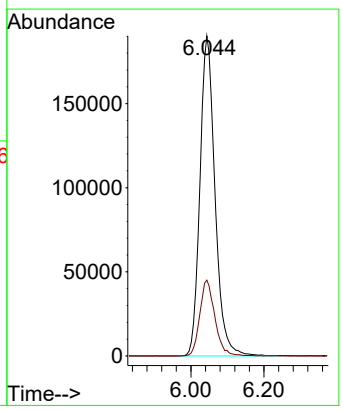


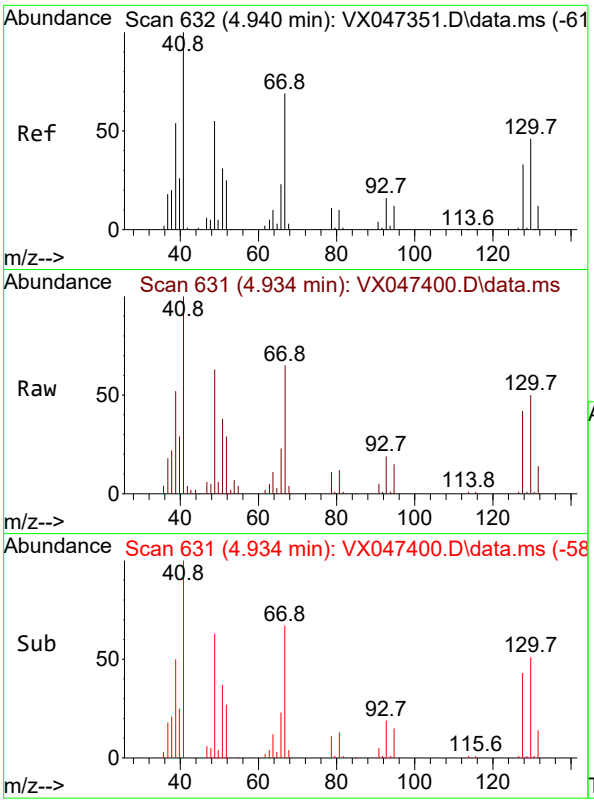


#40
Benzene
Concen: 48.701 ug/l
RT: 6.044 min Scan# 813
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 78 Resp: 545222

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4



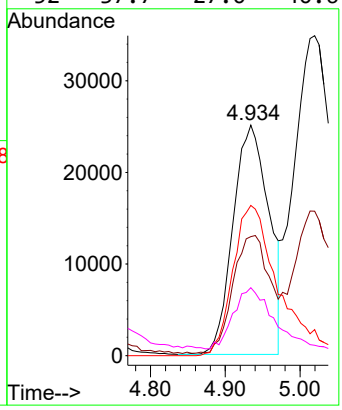


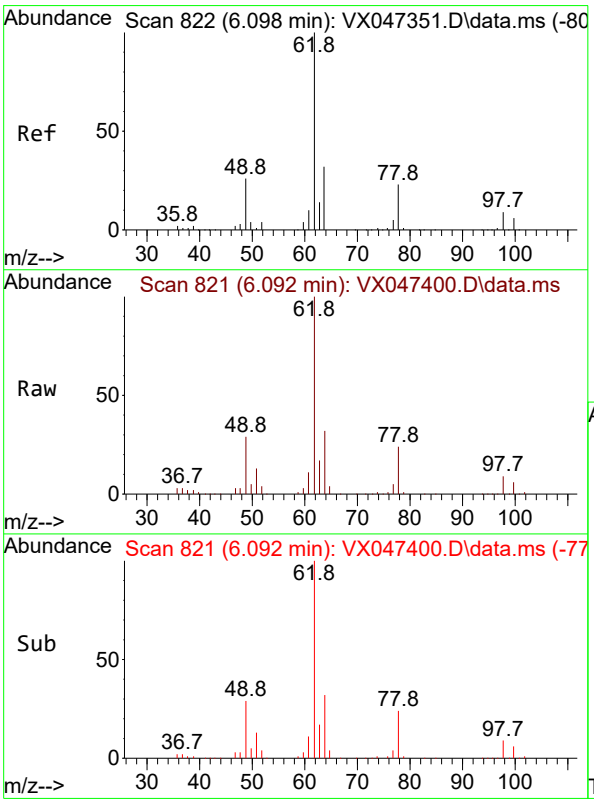
#41
Methacrylonitrile
Concen: 51.049 ug/l
RT: 4.934 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 83588

Ion	Ratio	Lower	Upper
41	100		
39	52.3	45.4	68.2
67	85.7	64.0	96.0
52	37.7	27.0	40.6

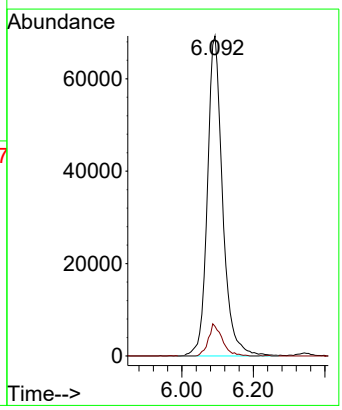


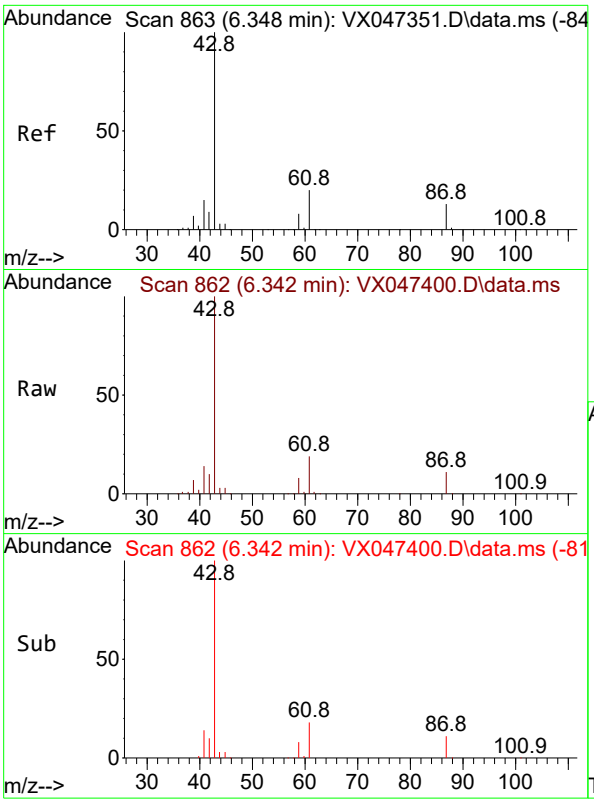


#42
1,2-Dichloroethane
Concen: 51.678 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 62 Resp: 204929

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.0



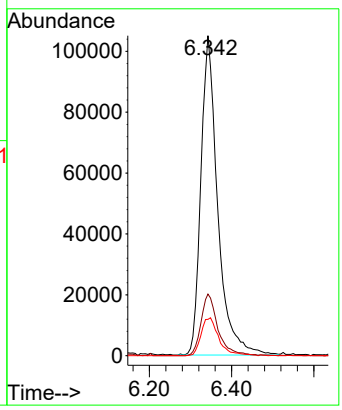


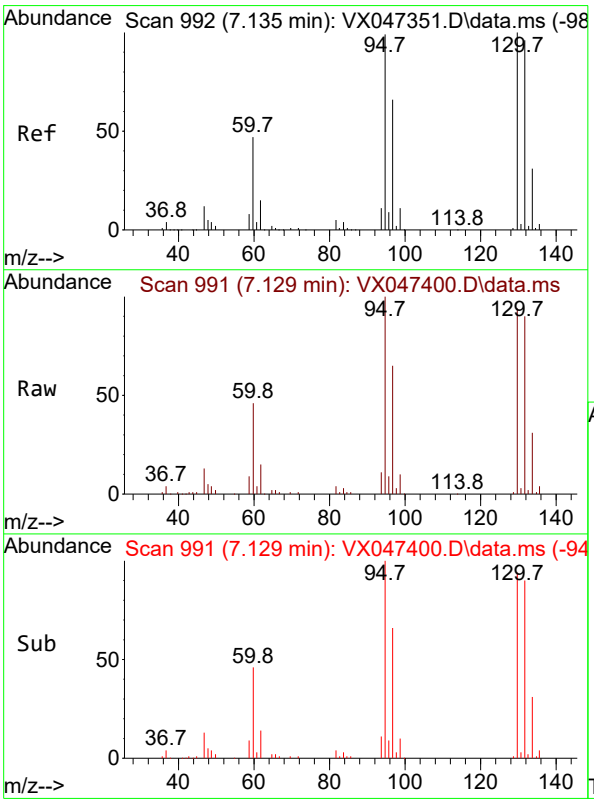
#43
Isopropyl Acetate
Concen: 53.497 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 298419

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.4	23.0
87	12.5	10.2	15.4

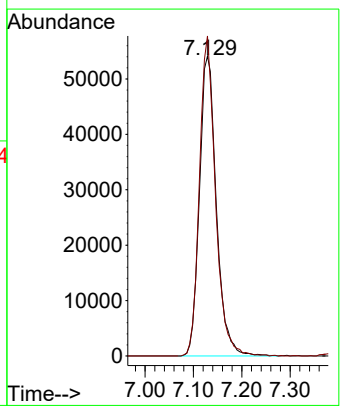


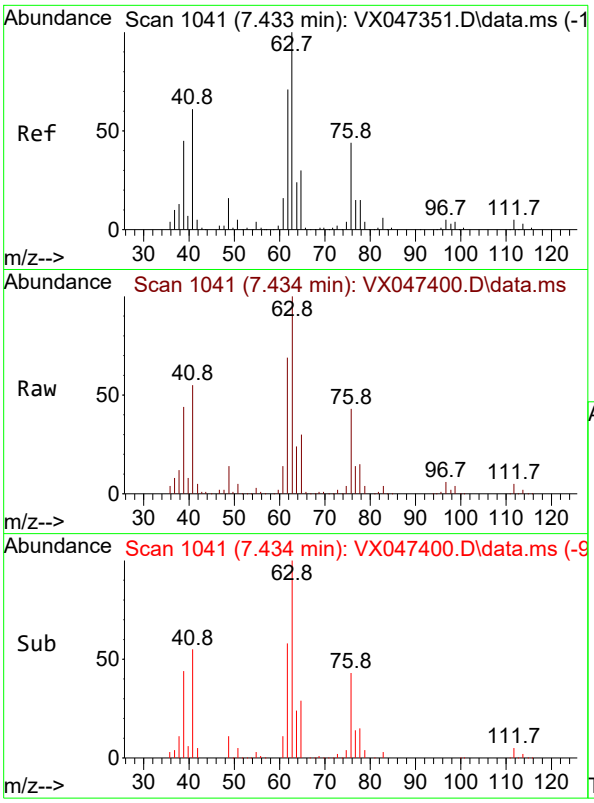


#44
Trichloroethene
Concen: 45.821 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:130 Resp: 131351

Ion	Ratio	Lower	Upper
130	100		
95	106.7	0.0	198.6



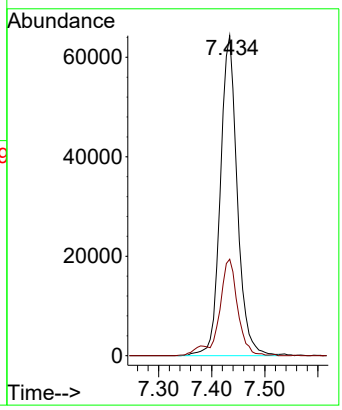


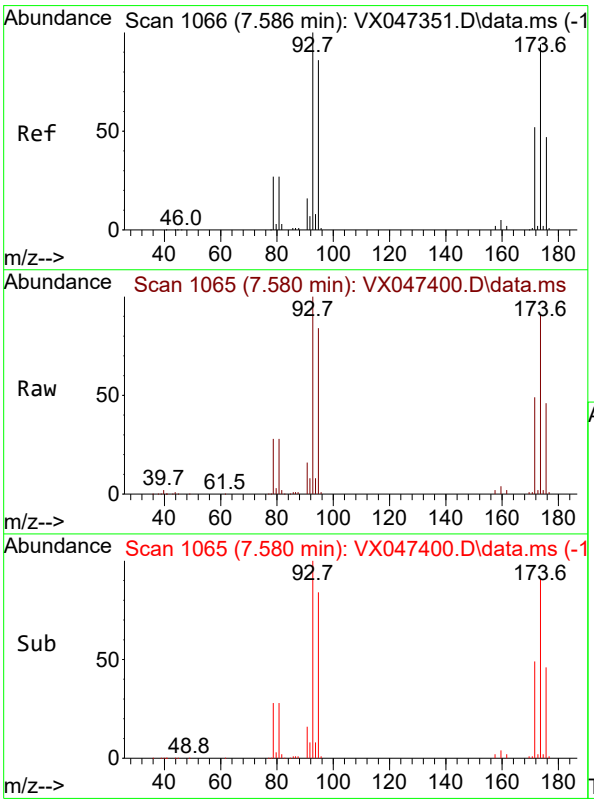
#45
1,2-Dichloropropane
Concen: 50.806 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 142494

Ion	Ratio	Lower	Upper
63	100		
65	30.1	23.8	35.6

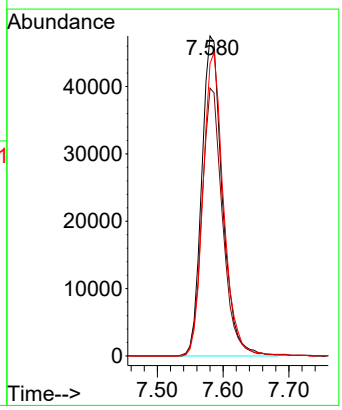


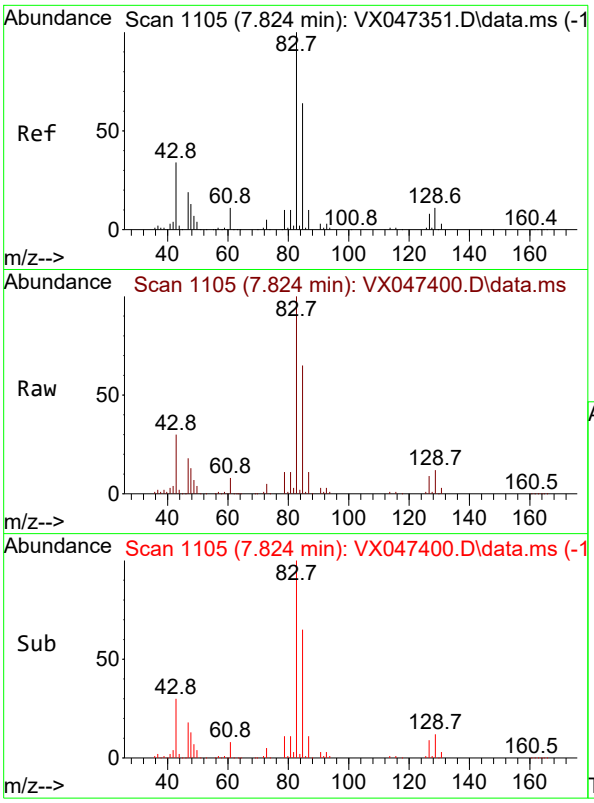


#46
Dibromomethane
Concen: 50.893 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 93 Resp: 103627

Ion	Ratio	Lower	Upper
93	100		
95	84.0	68.0	102.0
174	94.1	75.8	113.6



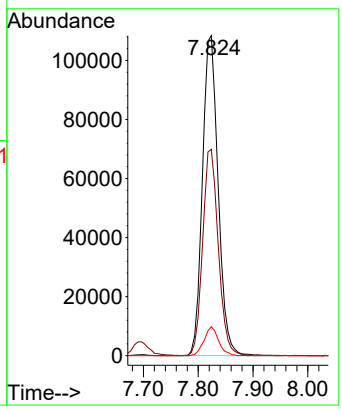


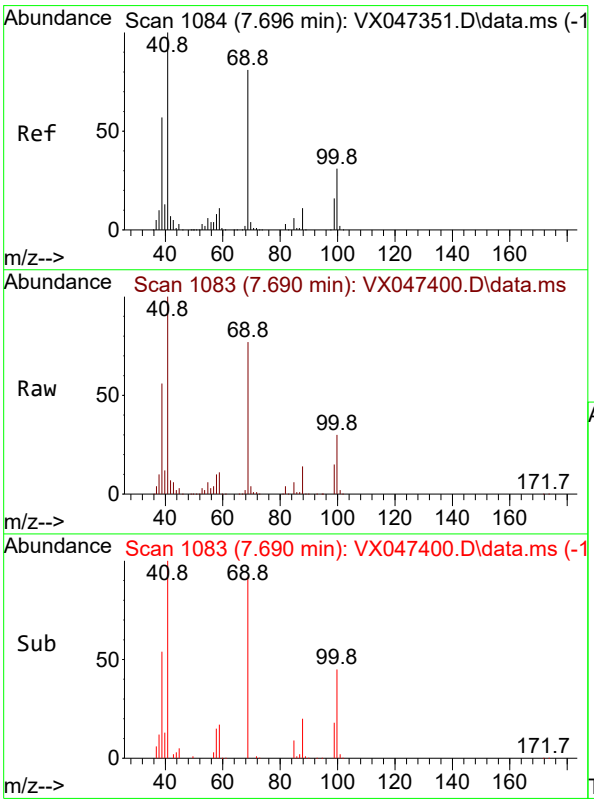
#47
Bromodichloromethane
Concen: 50.965 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 215133

Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.0	76.6
127	9.1	7.0	10.4

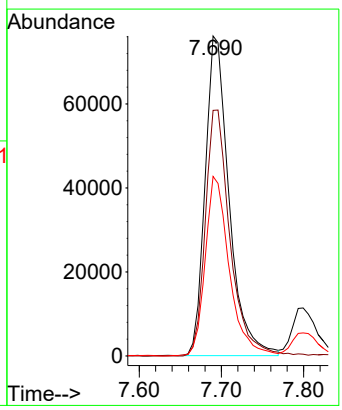


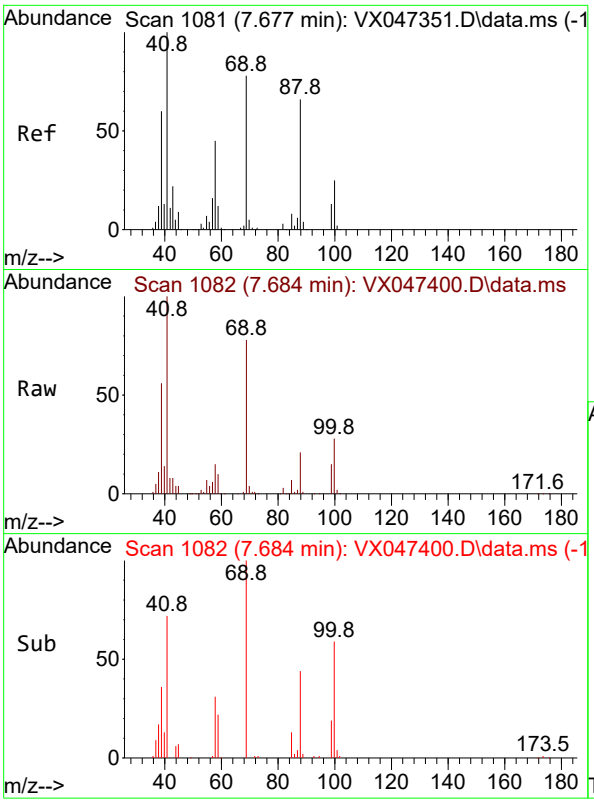


#48
Methyl methacrylate
Concen: 53.246 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 41 Resp: 154171

Ion	Ratio	Lower	Upper
41	100		
69	79.7	65.0	97.4
39	56.6	45.7	68.5



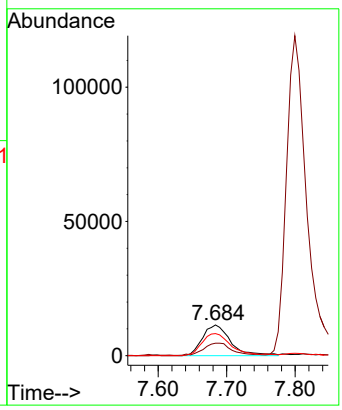


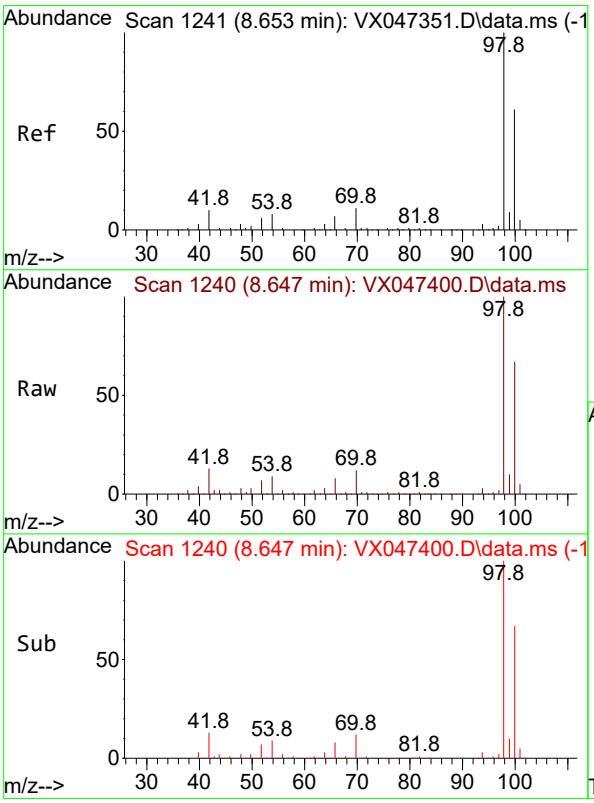
#49
1,4-Dioxane
Concen: 1160.527 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 32666

Ion	Ratio	Lower	Upper
88	100		
43	39.8	32.4	48.6
58	75.4	56.9	85.3

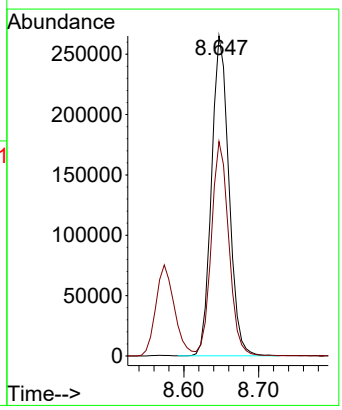


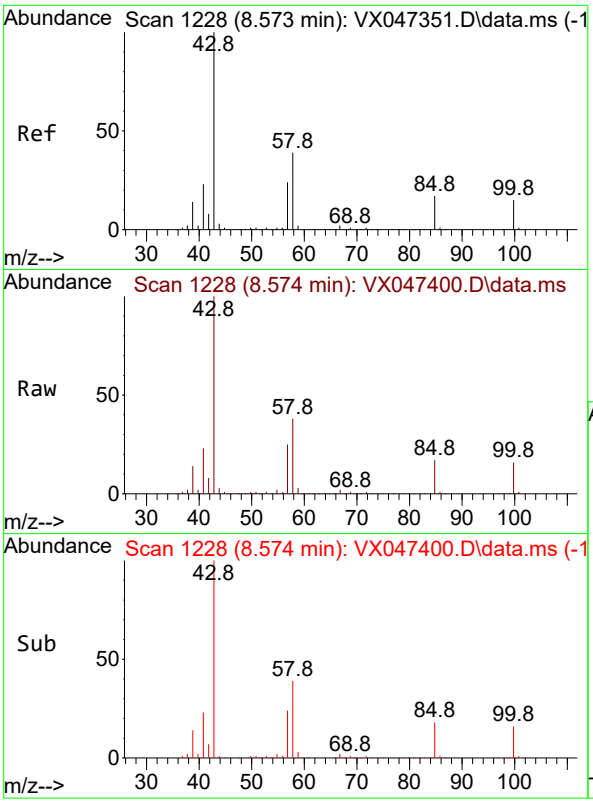


#50
Toluene-d8
Concen: 50.584 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 98 Resp: 428388

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.9	80.9



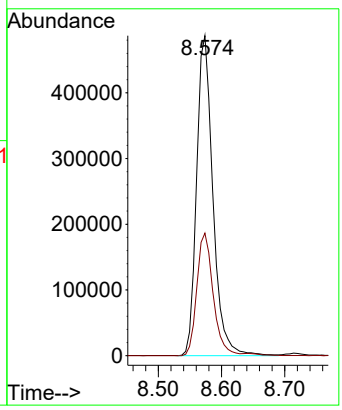


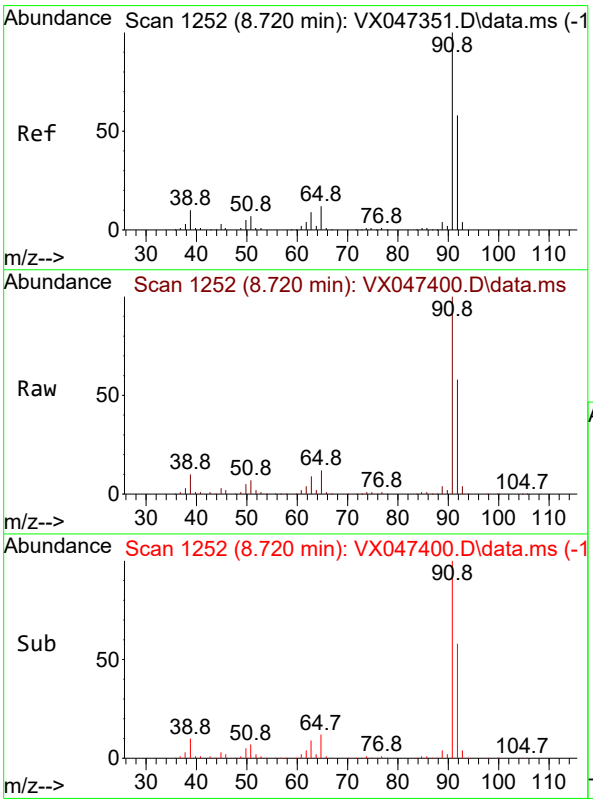
#51
4-Methyl-2-Pentanone
Concen: 272.635 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 875170

Ion	Ratio	Lower	Upper
43	100		
58	38.4	31.2	46.8

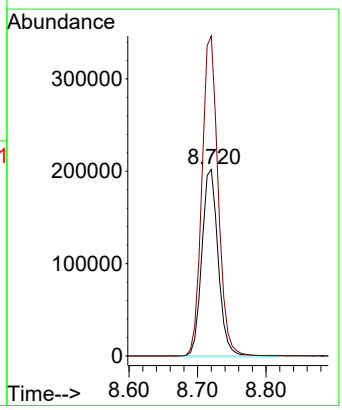


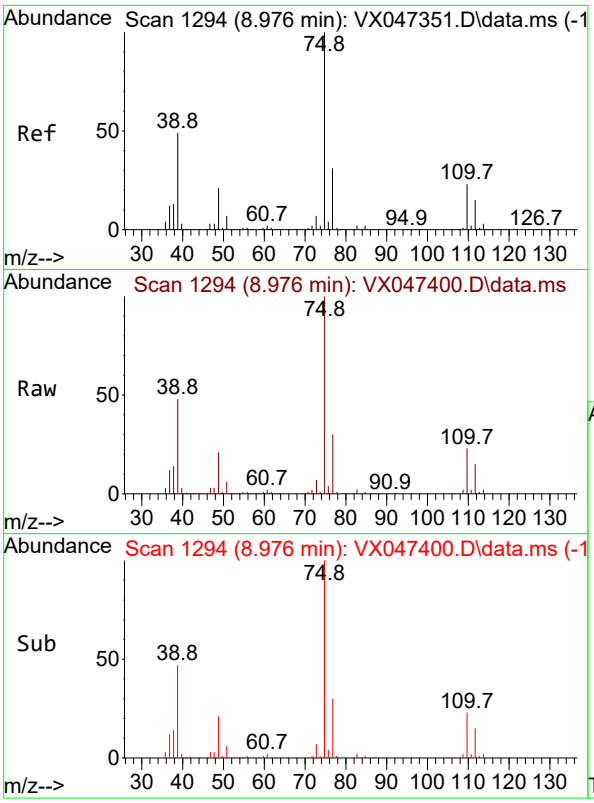


#52
Toluene
Concen: 48.228 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 92 Resp: 333637

Ion	Ratio	Lower	Upper
92	100		
91	171.1	136.3	204.5



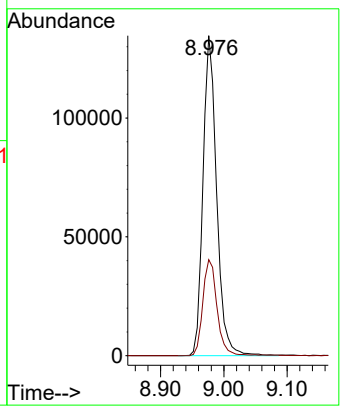


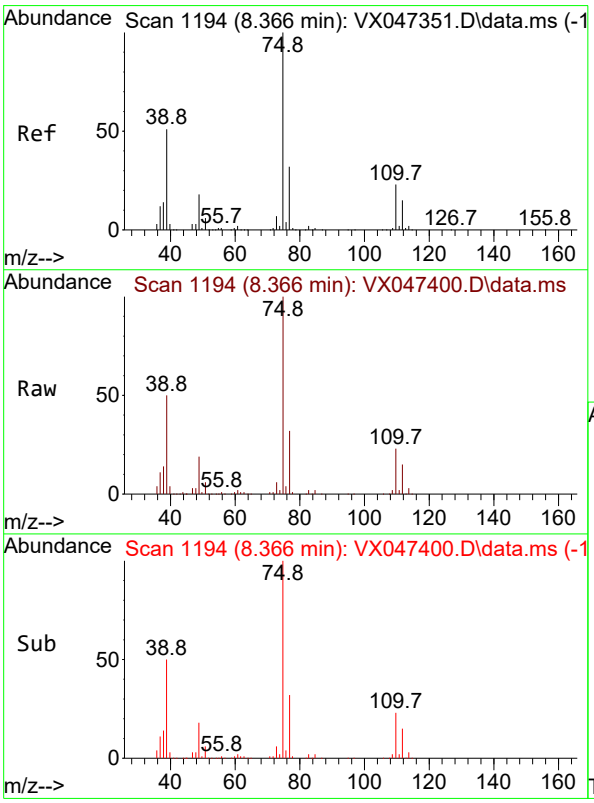
#53
t-1,3-Dichloropropene
Concen: 54.796 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 201870

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.7	37.1

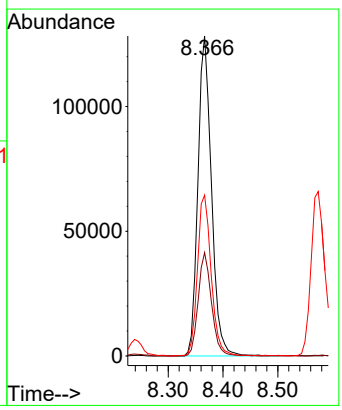


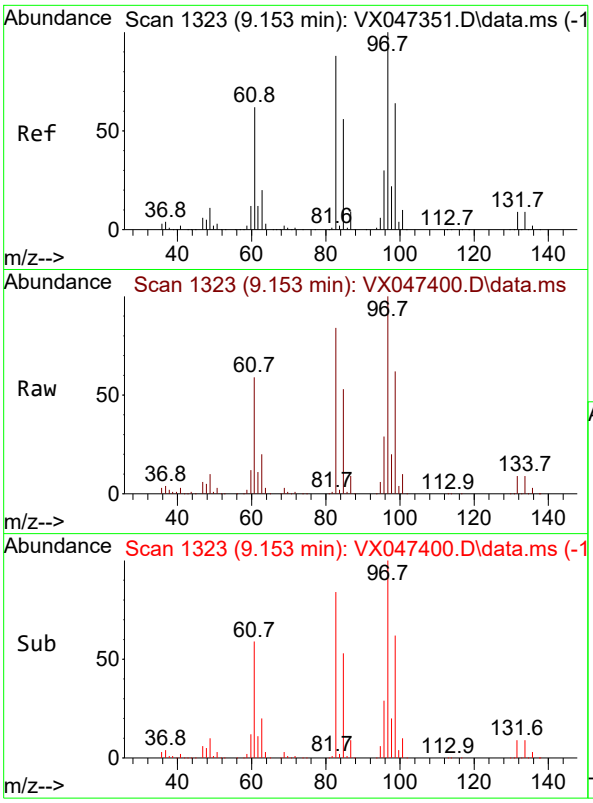


#54
cis-1,3-Dichloropropene
Concen: 52.876 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 75 Resp: 220487

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.6	38.4
39	50.1	40.9	61.3



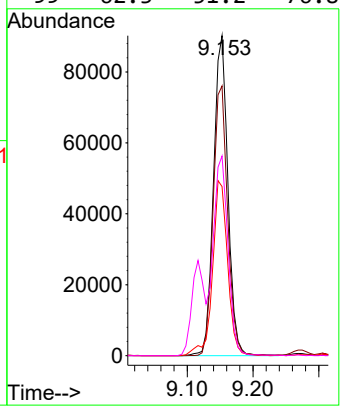


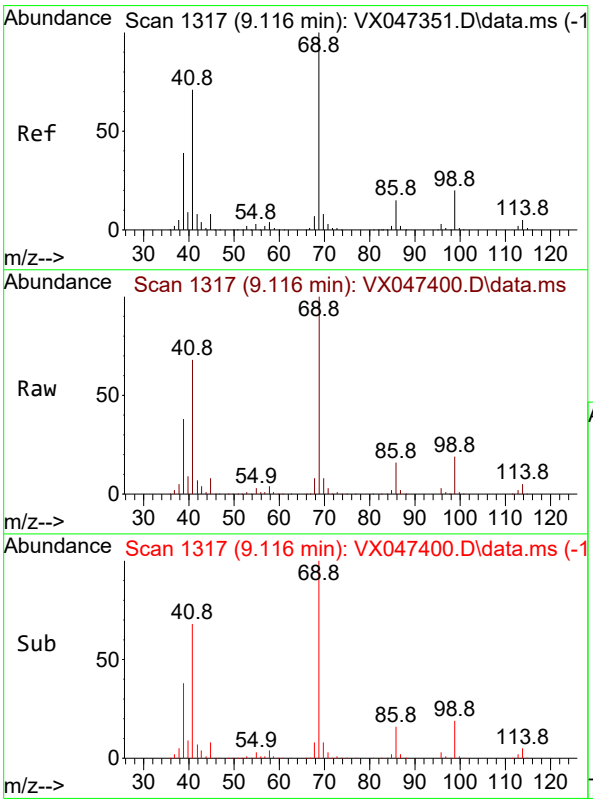
#55
1,1,2-Trichloroethane
Concen: 52.264 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 137274

Ion	Ratio	Lower	Upper
97	100		
83	84.3	70.6	106.0
85	52.8	44.7	67.1
99	62.3	51.2	76.8

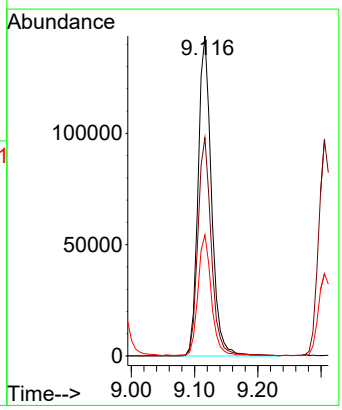


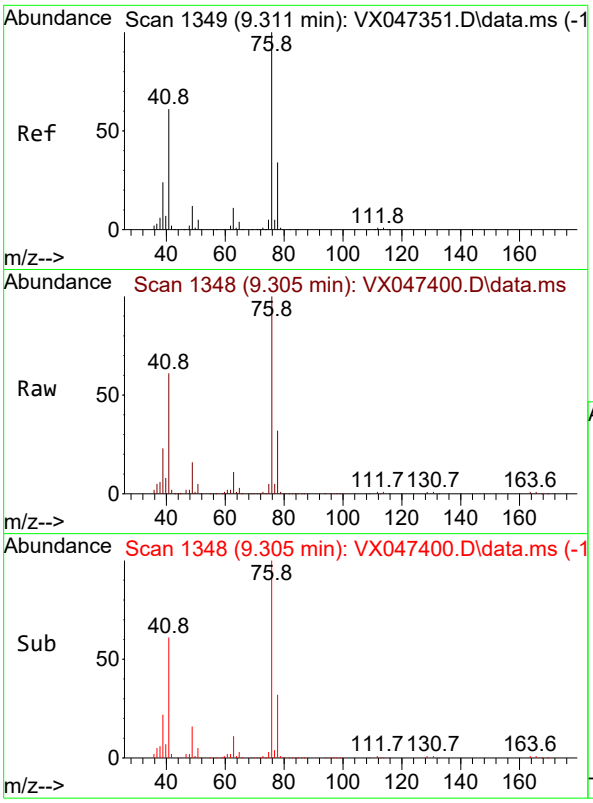


#56
Ethyl methacrylate
Concen: 54.700 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 69 Resp: 211825

Ion	Ratio	Lower	Upper
69	100		
41	68.4	55.3	82.9
39	37.8	30.2	45.2



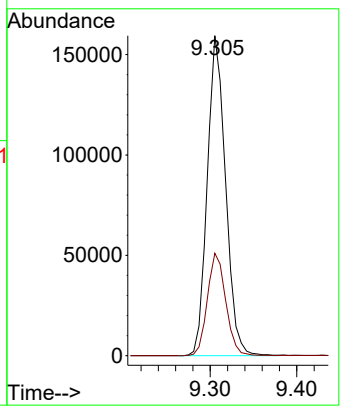


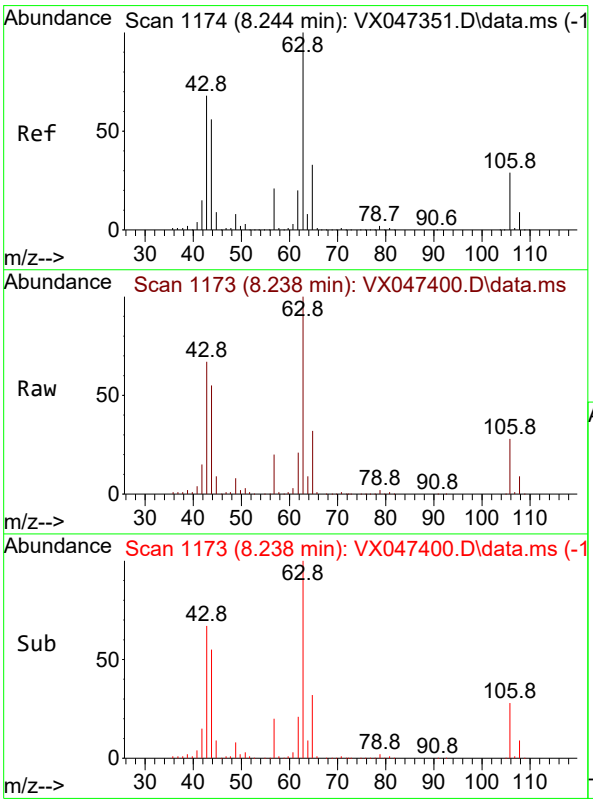
#57
1,3-Dichloropropane
Concen: 52.271 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 233945

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.2	39.2

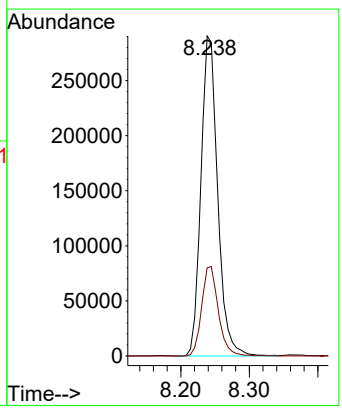


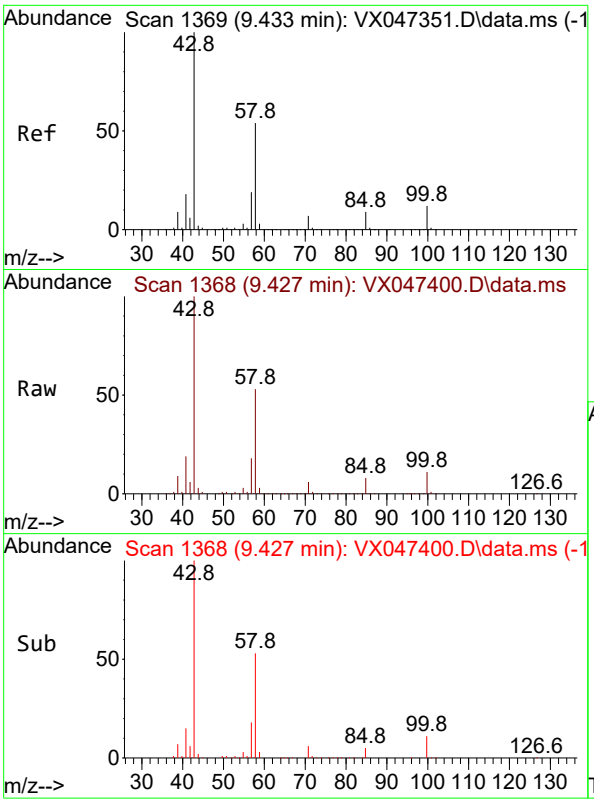


#58
2-Chloroethyl Vinyl ether
Concen: 266.315 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 63 Resp: 493500

Ion	Ratio	Lower	Upper
63	100		
106	27.9	22.8	34.2



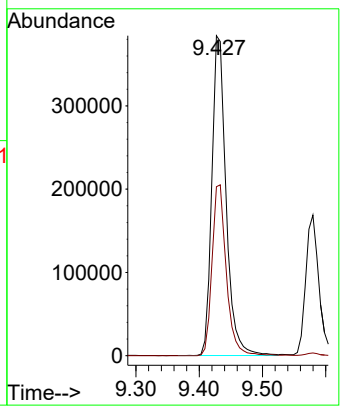


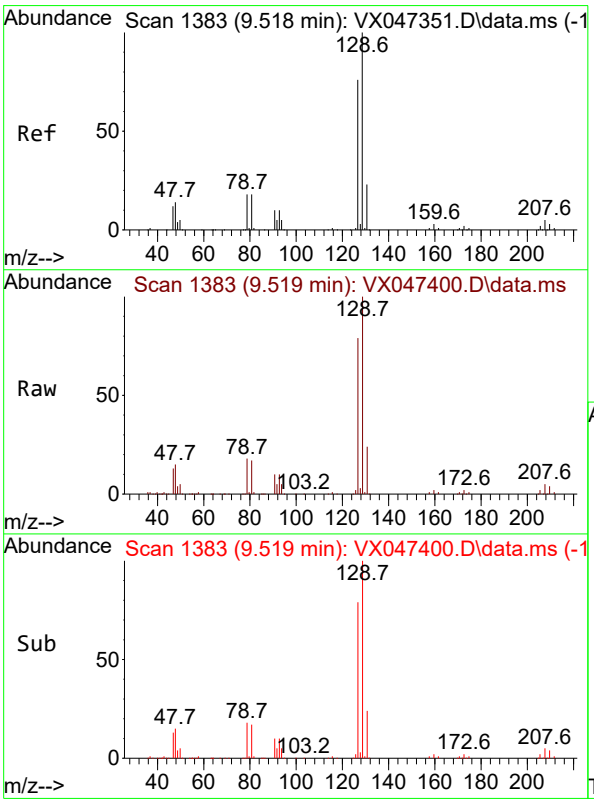
#59
2-Hexanone
Concen: 270.676 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 601025

Ion	Ratio	Lower	Upper
43	100		
58	53.6	26.9	80.7

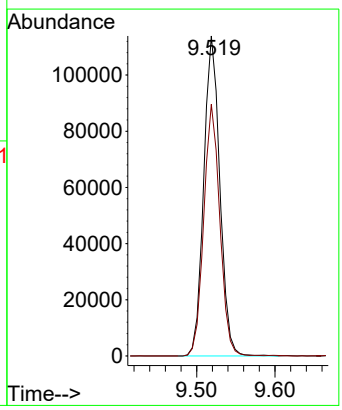


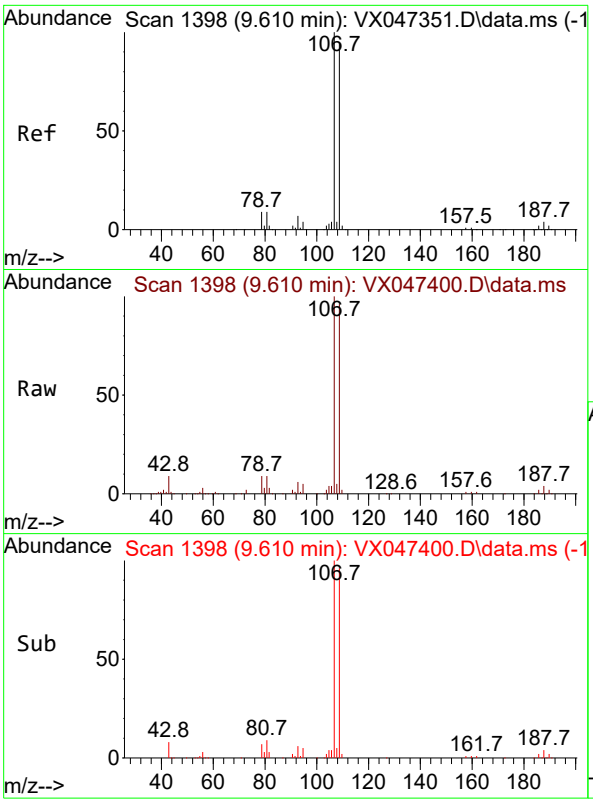


#60
Dibromochloromethane
Concen: 51.968 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:129 Resp: 162215

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.9	116.6



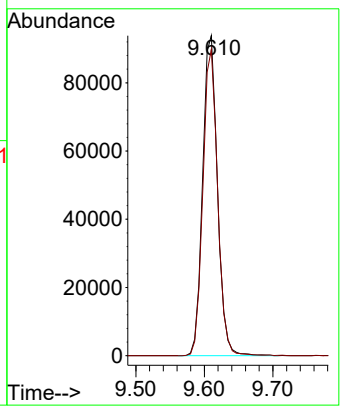


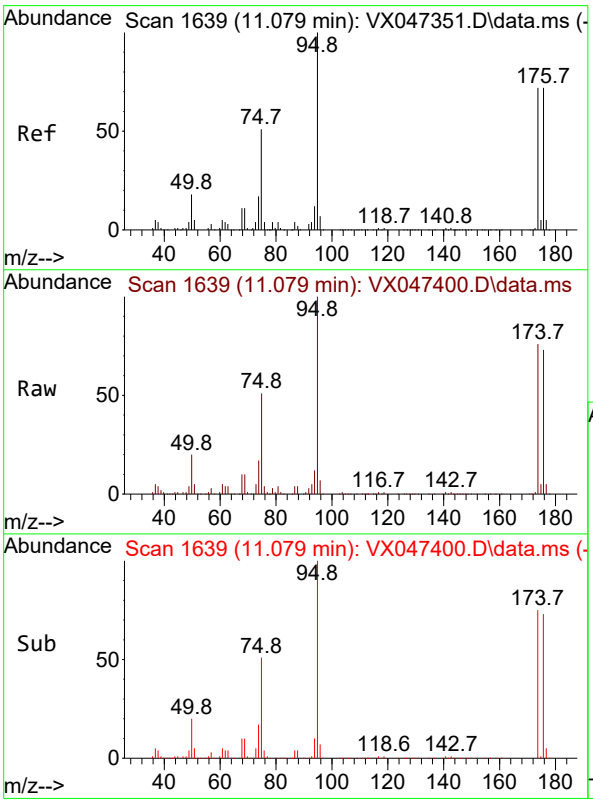
#61
1,2-Dibromoethane
Concen: 52.124 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 141178

Ion	Ratio	Lower	Upper
107	100		
109	95.2	76.2	114.2

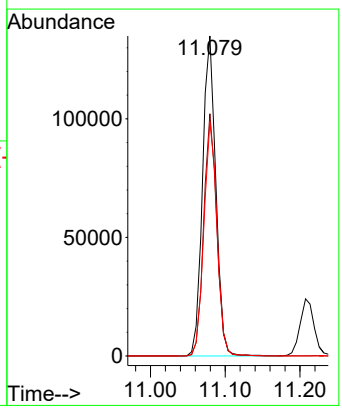


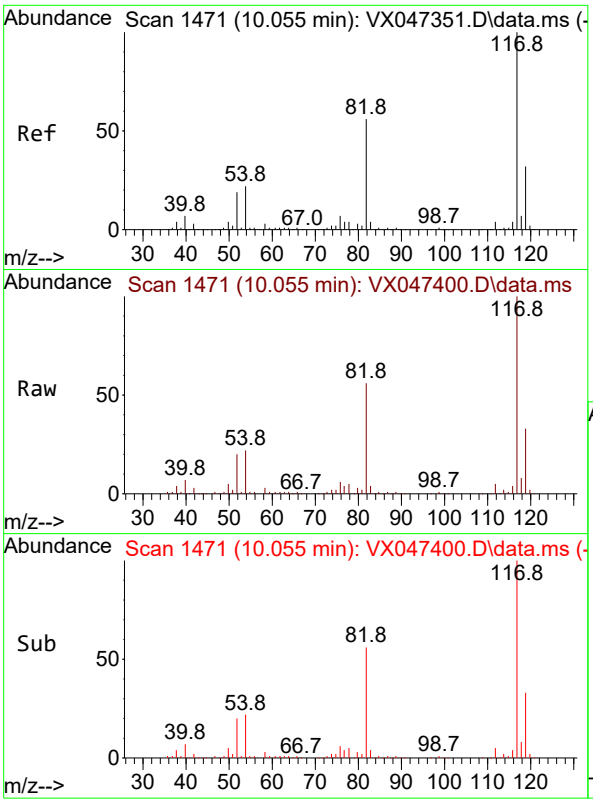


#62
4-Bromofluorobenzene
Concen: 53.183 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 95 Resp: 166205

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	148.0
176	72.4	0.0	145.4



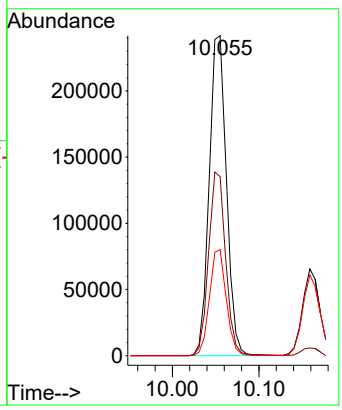


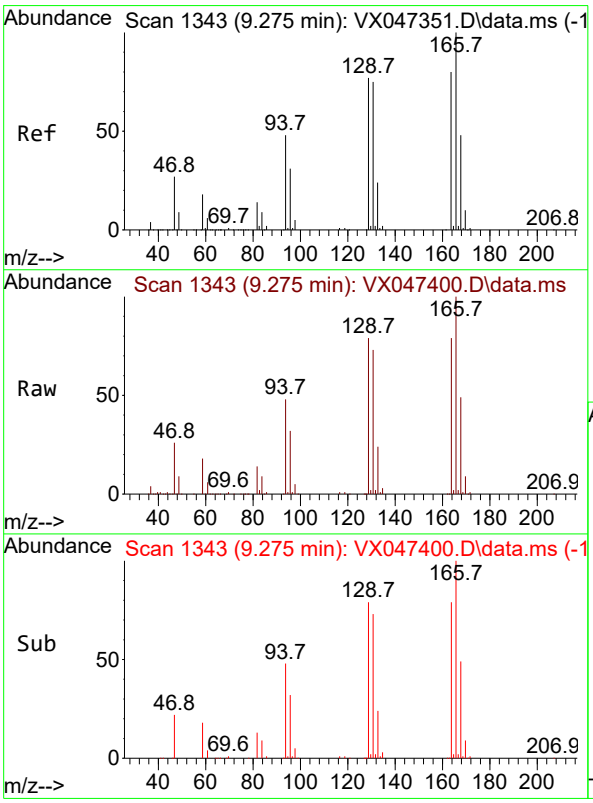
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 334051

Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.0	67.4
119	33.2	25.8	38.8

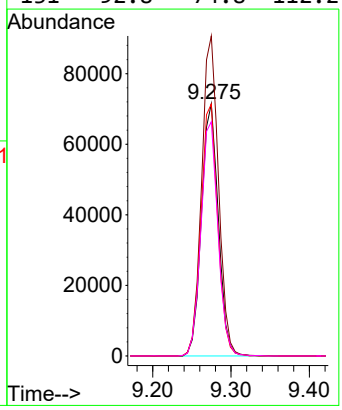


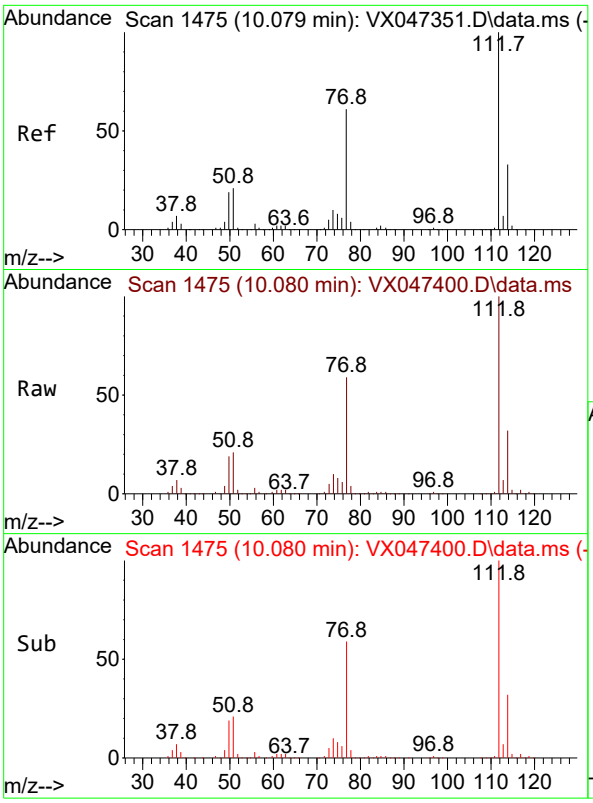


#64
Tetrachloroethene
Concen: 44.081 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:164 Resp: 106511

Ion	Ratio	Lower	Upper
164	100		
166	126.9	100.3	150.5
129	99.9	77.7	116.5
131	92.8	74.8	112.2



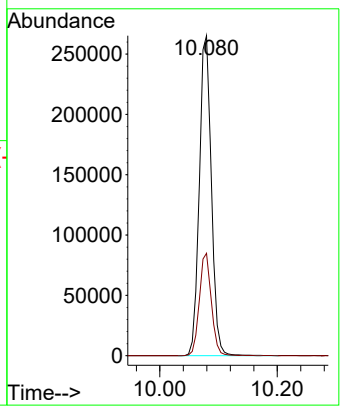


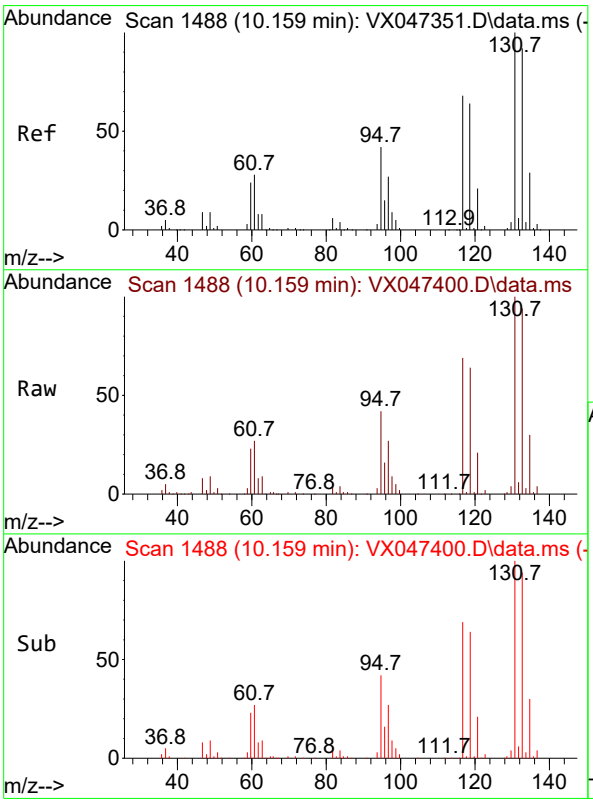
#65
Chlorobenzene
Concen: 47.476 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 376884

Ion	Ratio	Lower	Upper
112	100		
114	32.0	26.4	39.6

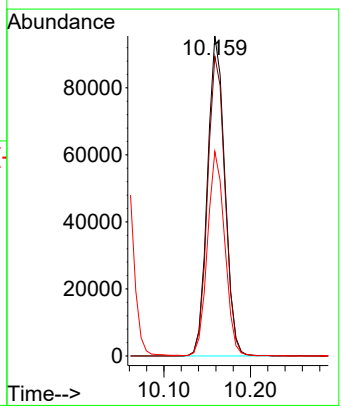


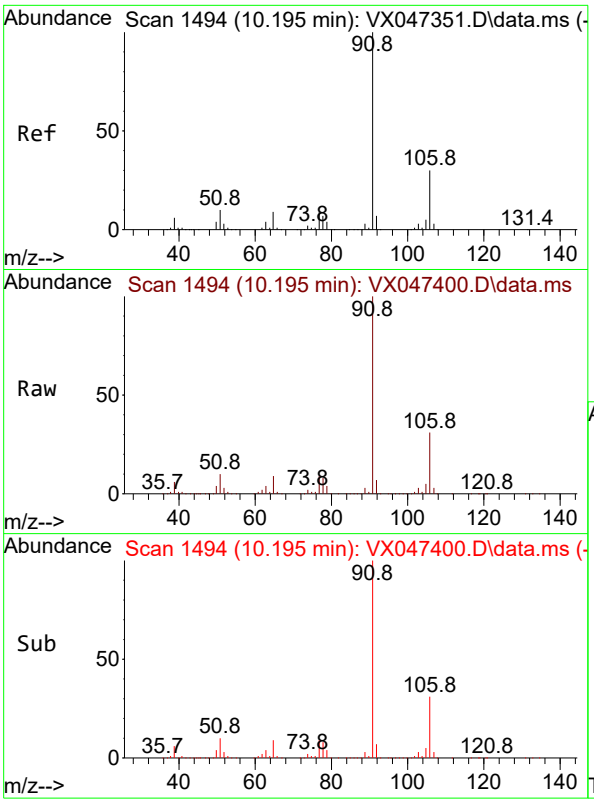


#66
1,1,1,2-Tetrachloroethane
Concen: 49.556 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:131 Resp: 132983

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.6	142.9
119	63.7	32.3	96.8



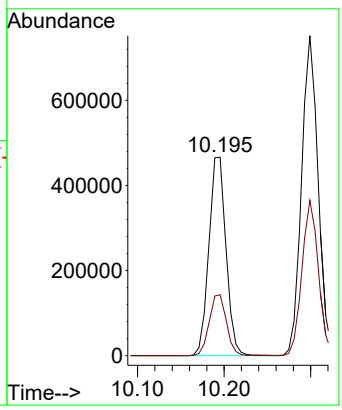


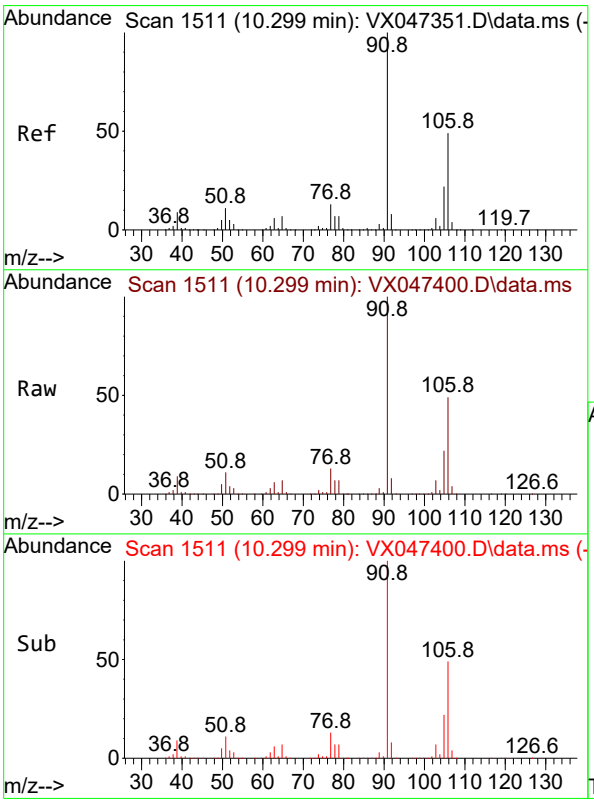
#67
Ethyl Benzene
Concen: 47.006 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 642247

Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.4	36.6

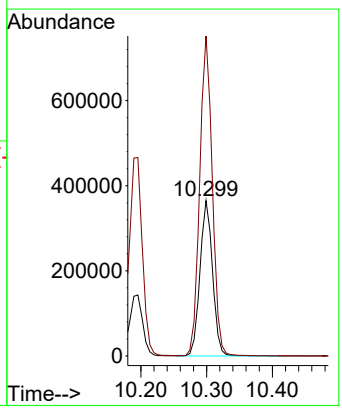


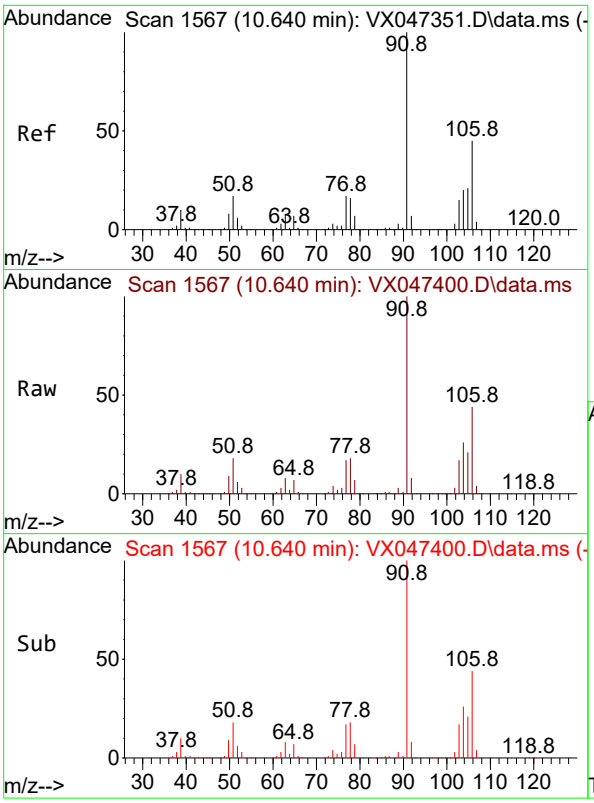


#68
m/p-Xylenes
Concen: 95.157 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:106 Resp: 484787

Ion	Ratio	Lower	Upper
106	100		
91	206.5	164.7	247.1



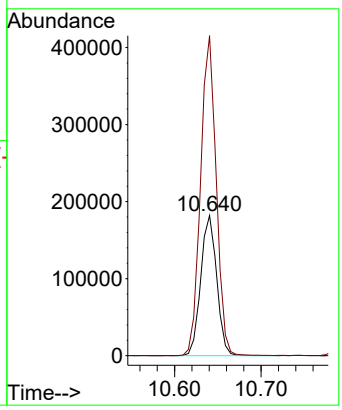


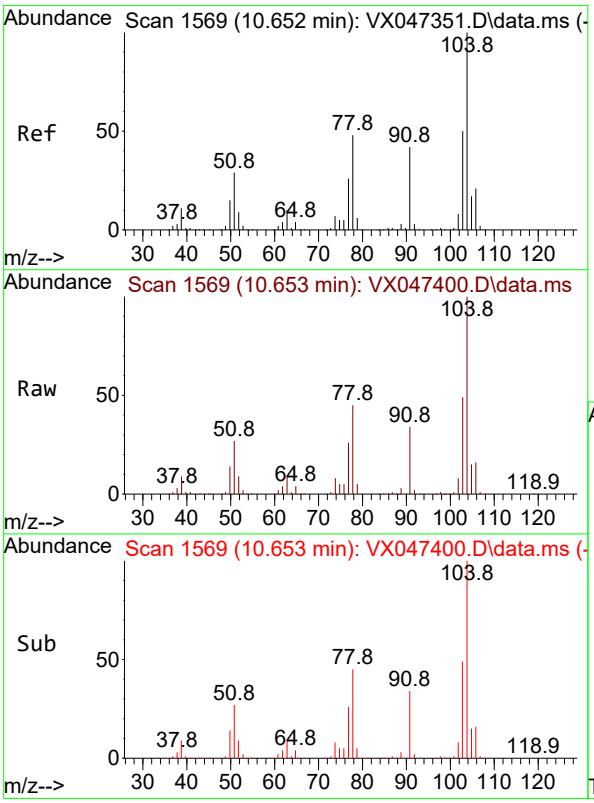
#69
o-Xylene
Concen: 47.570 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 233222

Ion	Ratio	Lower	Upper
106	100		
91	223.5	110.6	331.8

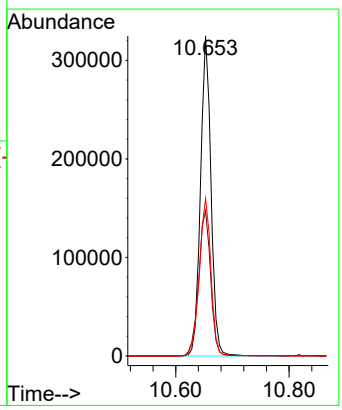


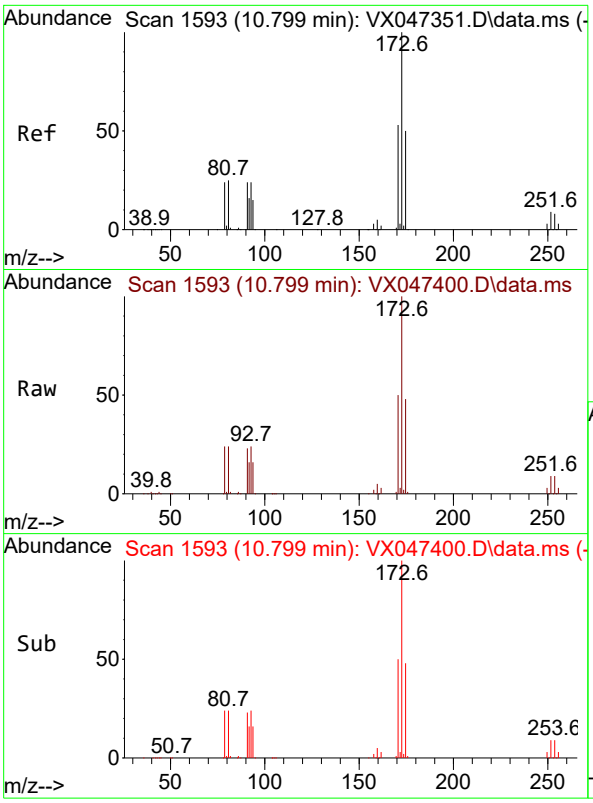


#70
Styrene
Concen: 50.426 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:104 Resp: 417727

Ion	Ratio	Lower	Upper
104	100		
78	52.0	41.8	62.8
103	54.4	43.6	65.4



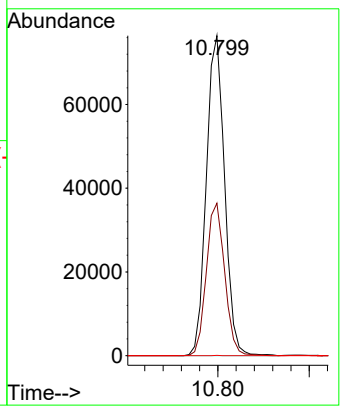


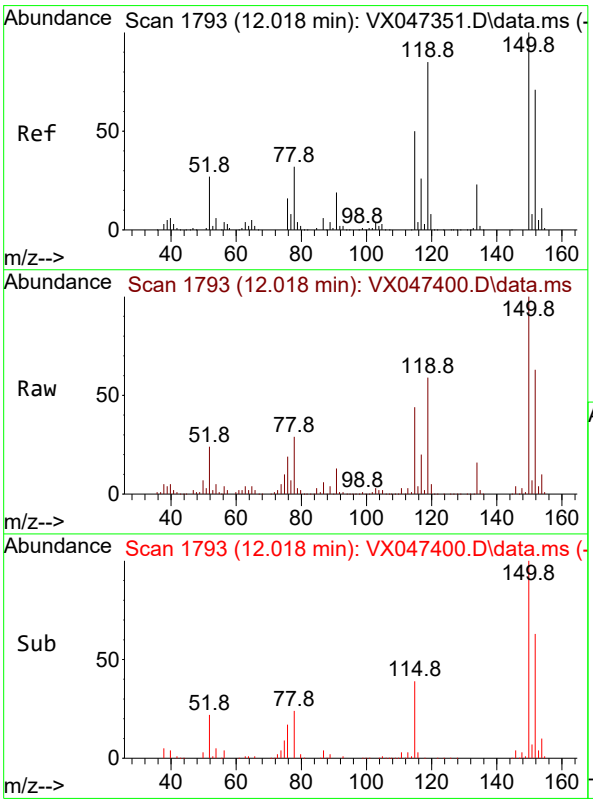
#71
Bromoform
Concen: 52.336 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 105509

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.4	73.4
254	0.0	0.1	0.1#

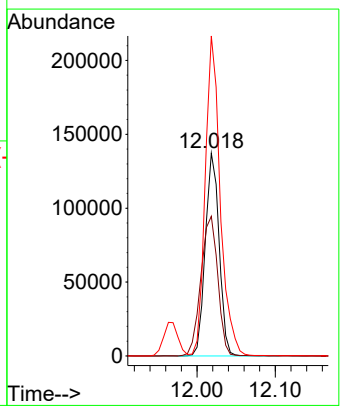


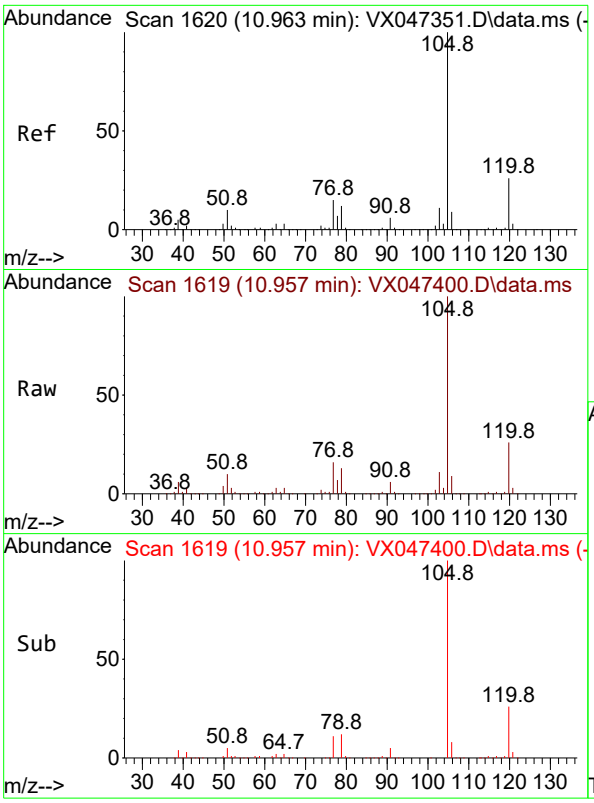


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:152 Resp: 167955

Ion	Ratio	Lower	Upper
152	100		
115	84.5	44.6	133.8
150	171.4	0.0	349.8



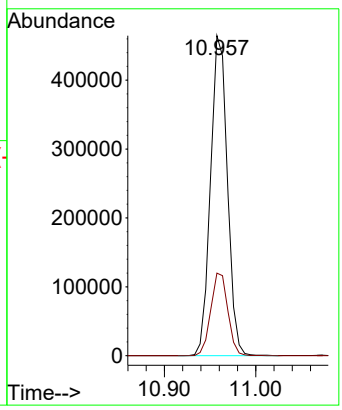


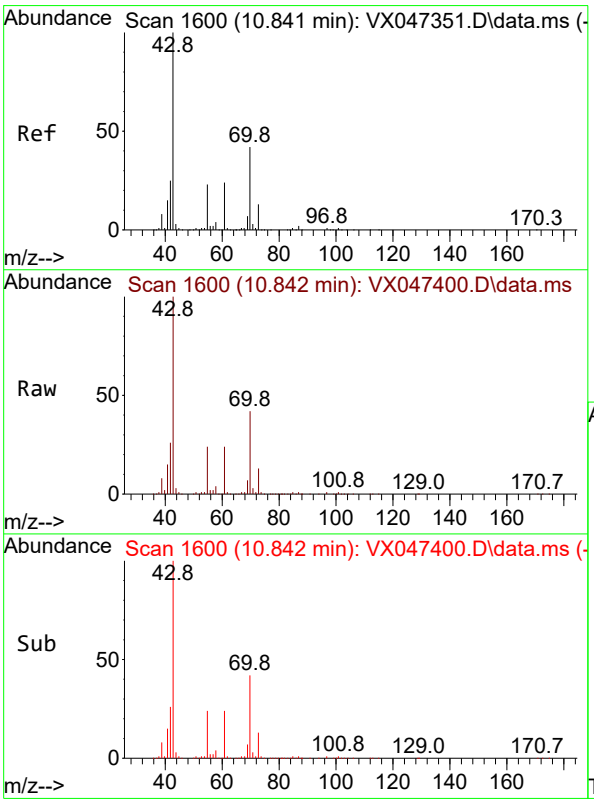
#73
Isopropylbenzene
Concen: 45.232 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 594503

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.9	38.6

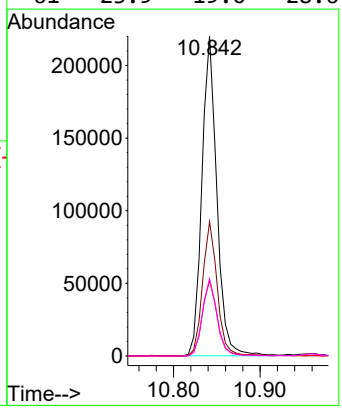


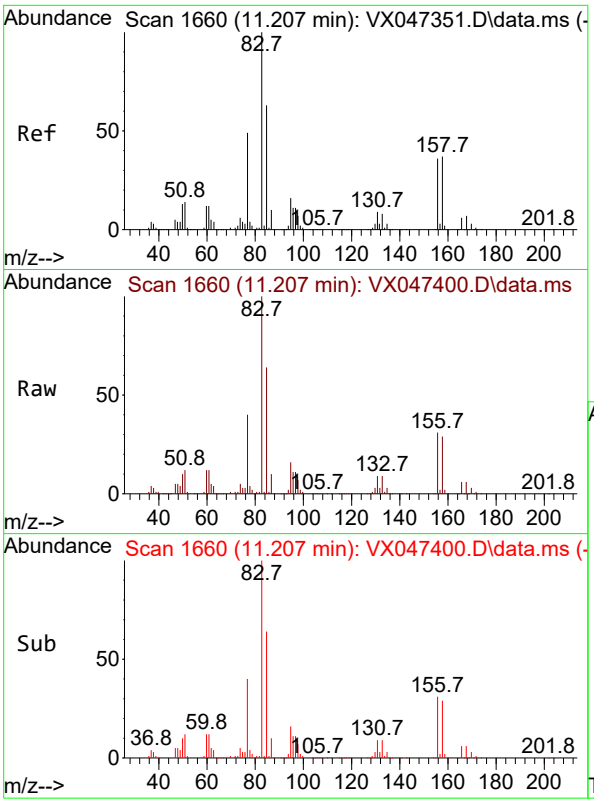


#74
N-amyl acetate
Concen: 52.861 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 263829

Ion	Ratio	Lower	Upper
43	100		
70	41.4	33.1	49.7
55	23.7	19.0	28.6
61	23.9	19.0	28.6



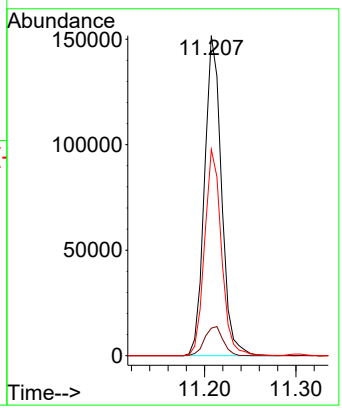


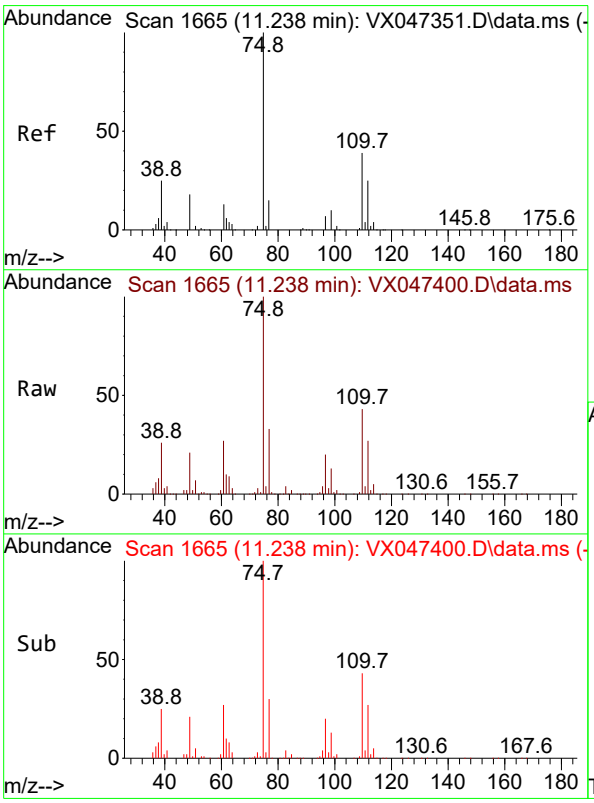
#75
1,1,2,2-Tetrachloroethane
Concen: 50.522 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 194960

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	15.0
85	63.9	31.7	95.1

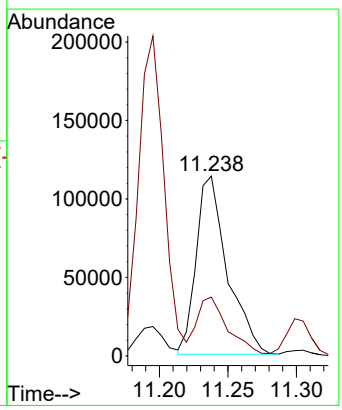


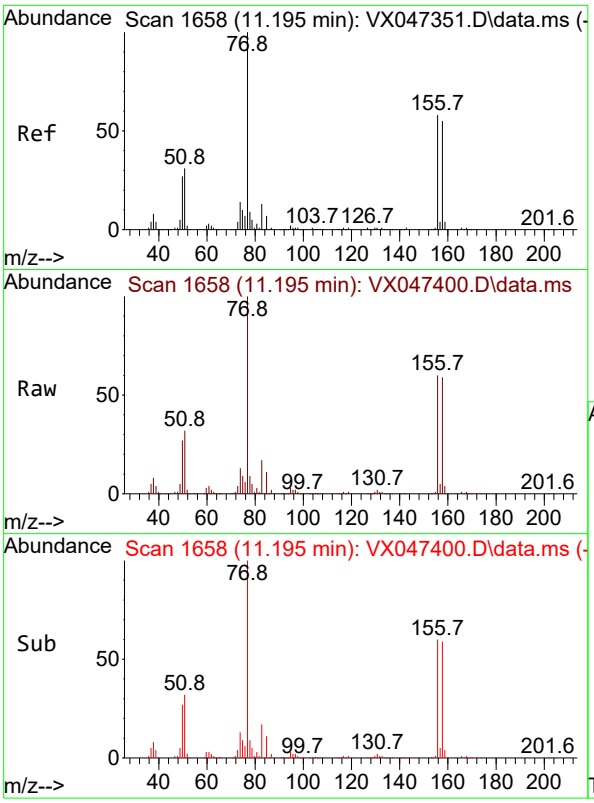


#76
1,2,3-Trichloropropane
Concen: 58.400 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 75 Resp: 179899

Ion	Ratio	Lower	Upper
75	100		
77	33.3	19.4	58.2



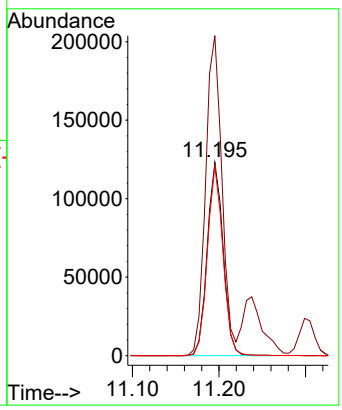


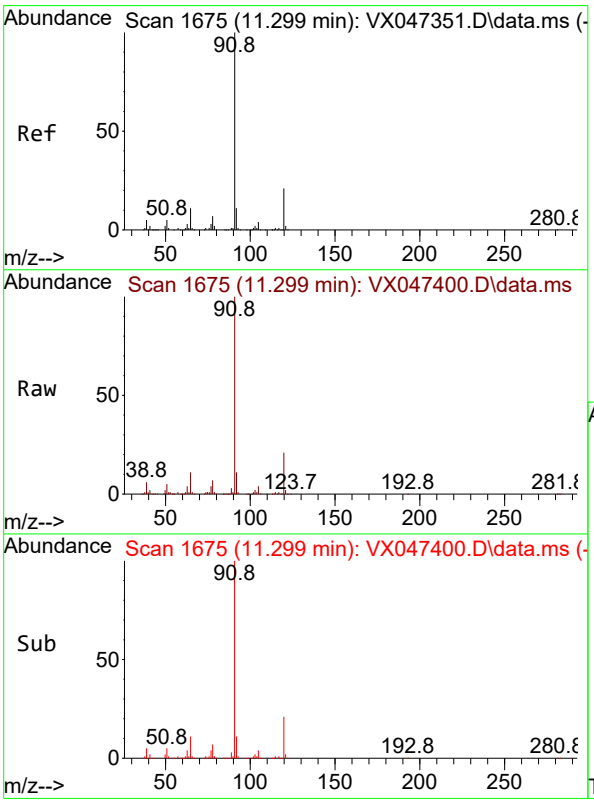
#77
Bromobenzene
Concen: 48.962 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 157141

Ion	Ratio	Lower	Upper
156	100		
77	169.6	86.3	258.9
158	95.7	48.0	144.2

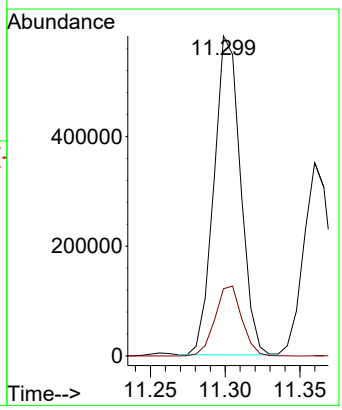


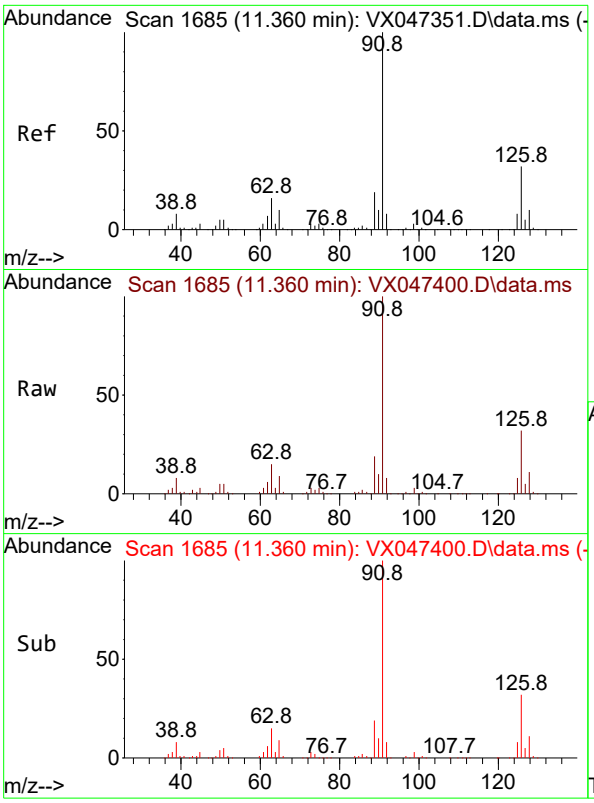


#78
n-propylbenzene
Concen: 45.715 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 91 Resp: 717602

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0



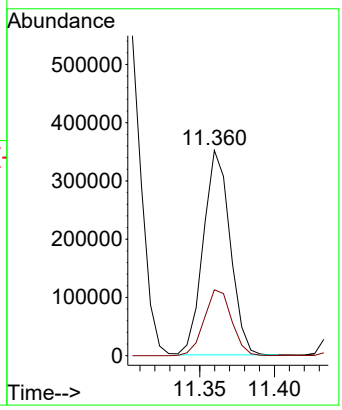


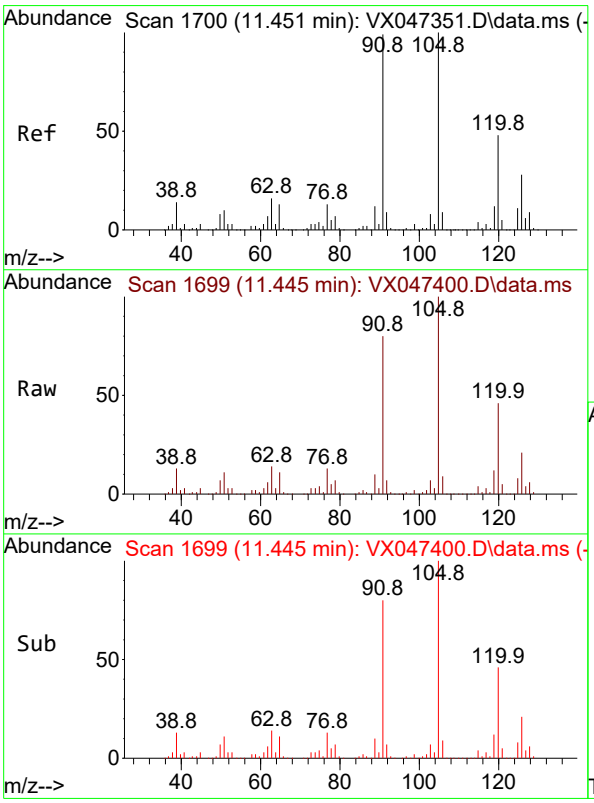
#79
2-Chlorotoluene
Concen: 46.220 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 438581

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.7	50.1

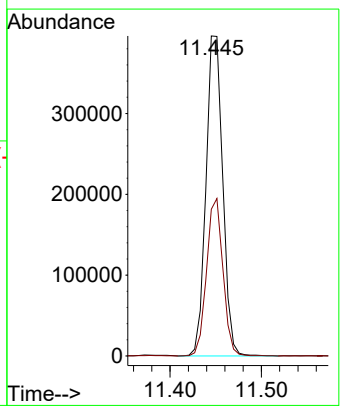


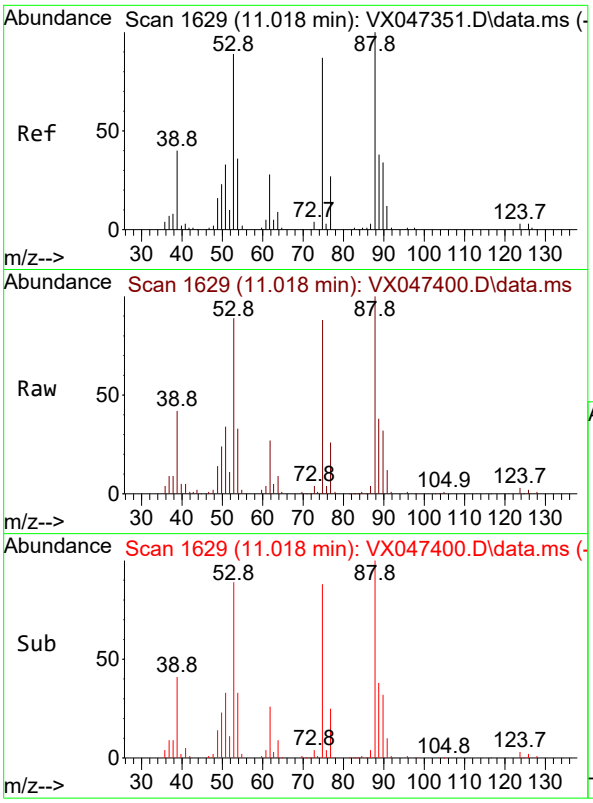


#80
1,3,5-Trimethylbenzene
Concen: 46.784 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:105 Resp: 505924

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.9	71.7



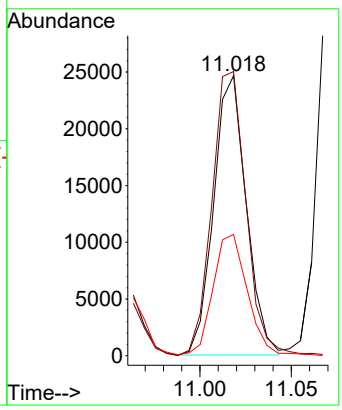


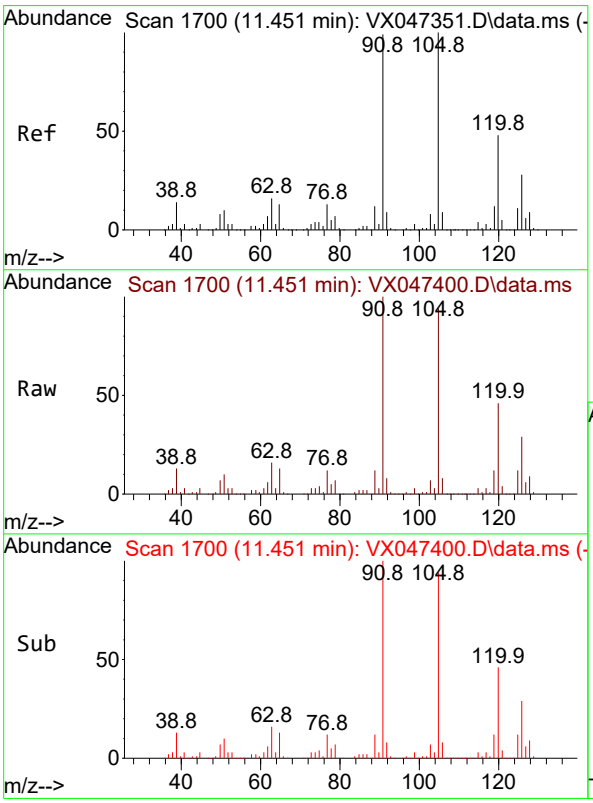
#81
trans-1,4-Dichloro-2-butene
Concen: 44.250 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 30598

Ion	Ratio	Lower	Upper
75	100		
53	107.2	85.2	127.8
89	45.9	36.7	55.1

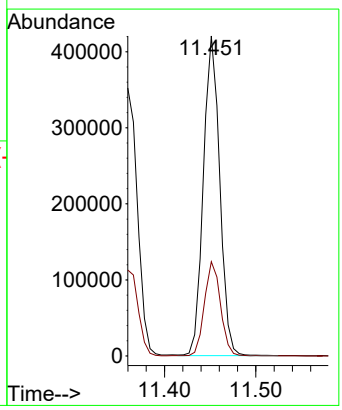


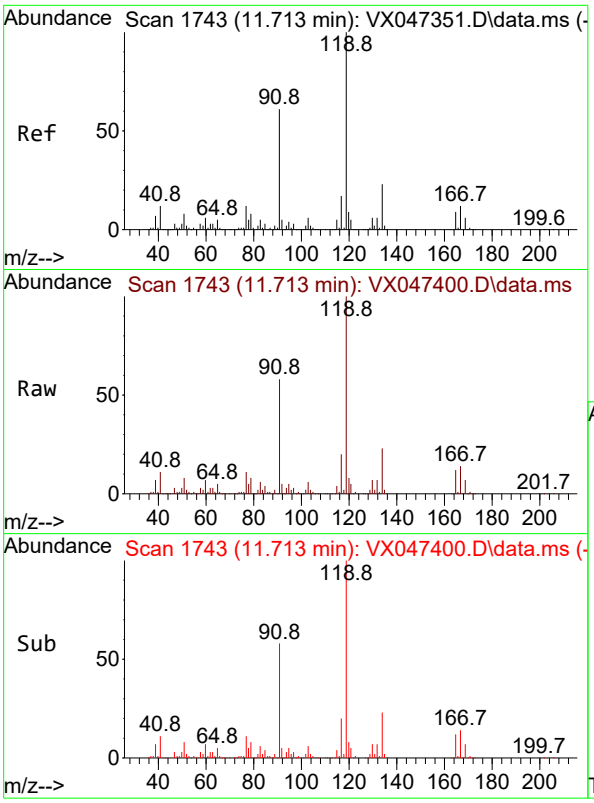


#82
4-Chlorotoluene
Concen: 46.620 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 91 Resp: 521477

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.4	43.0



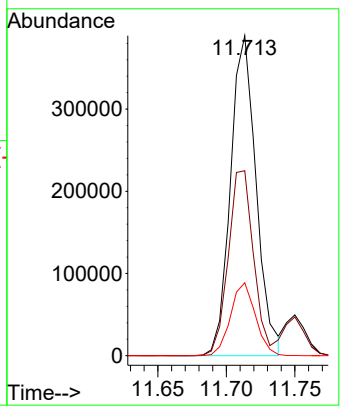


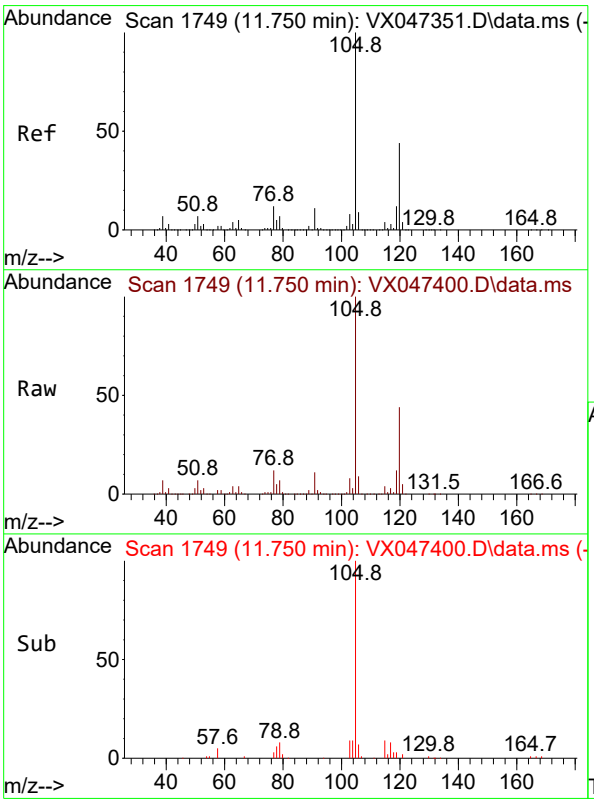
#83
tert-Butylbenzene
Concen: 47.081 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 507953

Ion	Ratio	Lower	Upper
119	100		
91	56.8	29.1	87.4
134	22.2	11.3	33.9

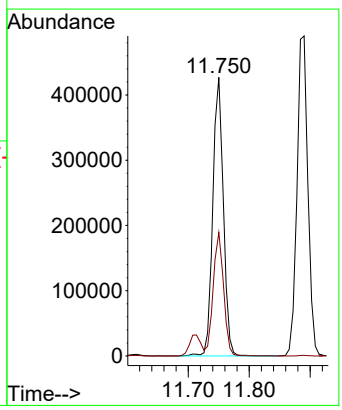


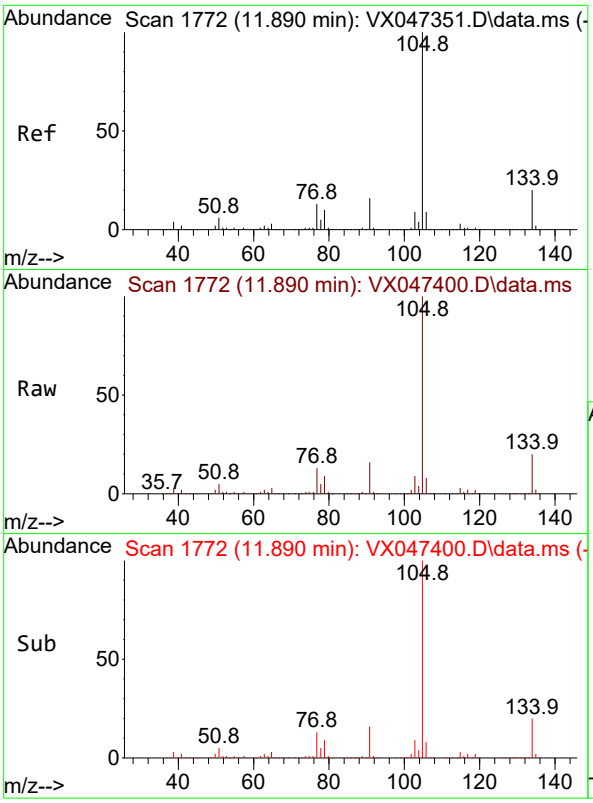


#84
1,2,4-Trimethylbenzene
Concen: 47.529 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:105 Resp: 513998

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.9	65.7



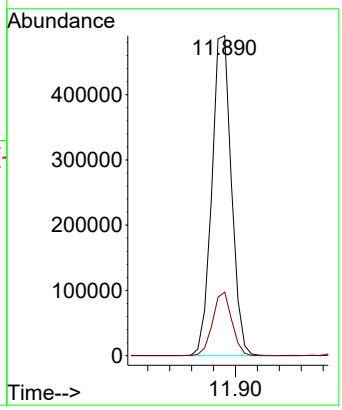


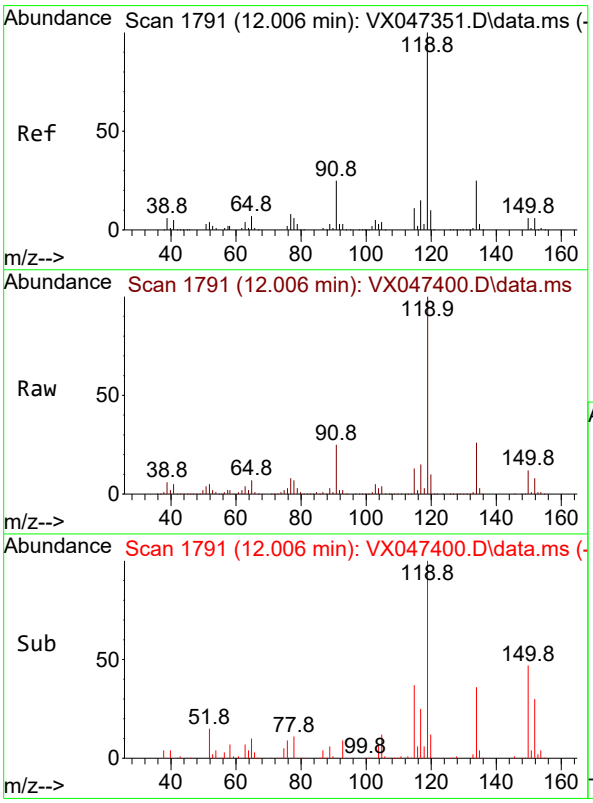
#85
sec-Butylbenzene
Concen: 45.552 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 609145

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.5

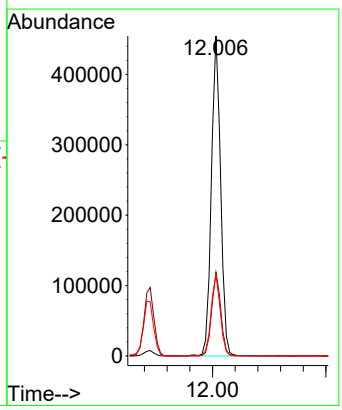


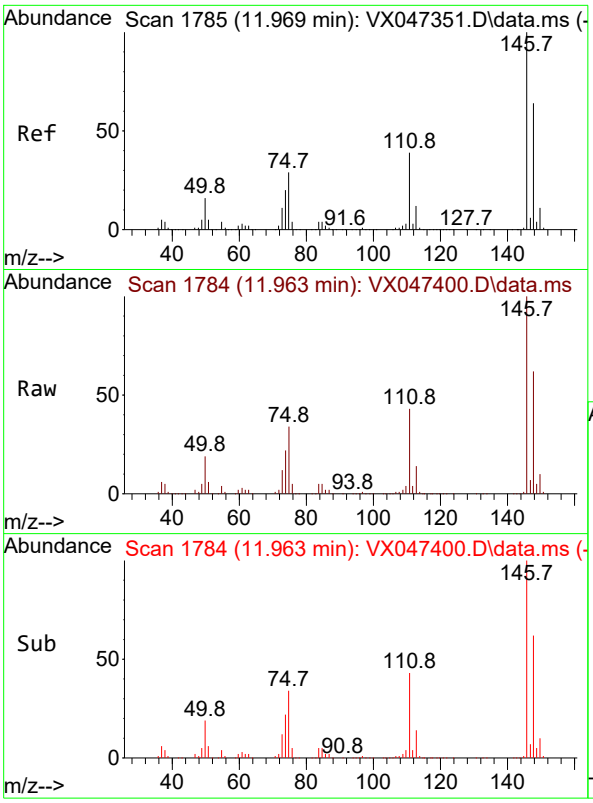


#86
p-Isopropyltoluene
Concen: 45.458 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:119 Resp: 514402

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.8	38.4
91	25.3	12.4	37.4



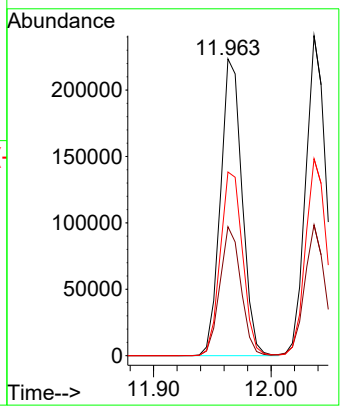


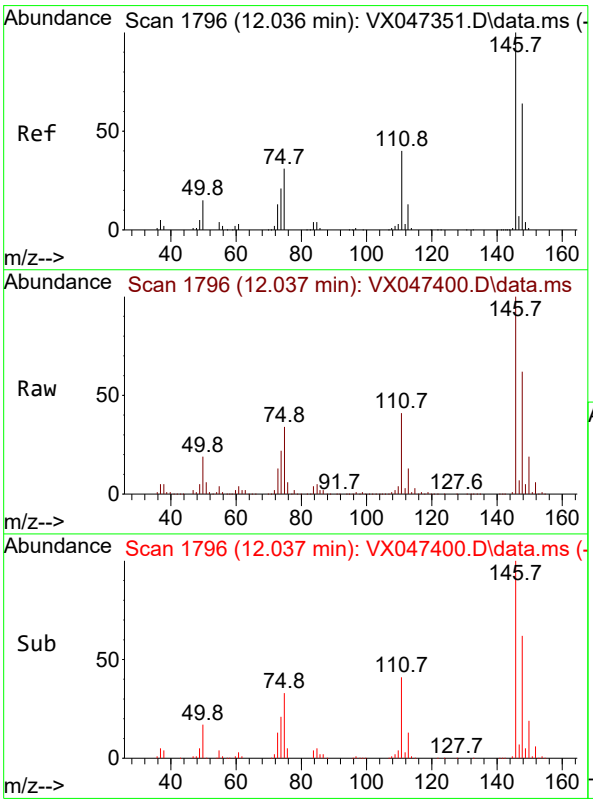
#87
1,3-Dichlorobenzene
Concen: 46.630 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 285904

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.6	61.8
148	64.0	31.9	95.5

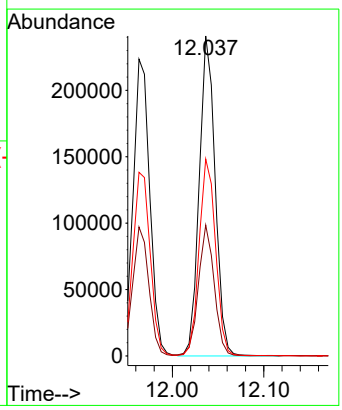


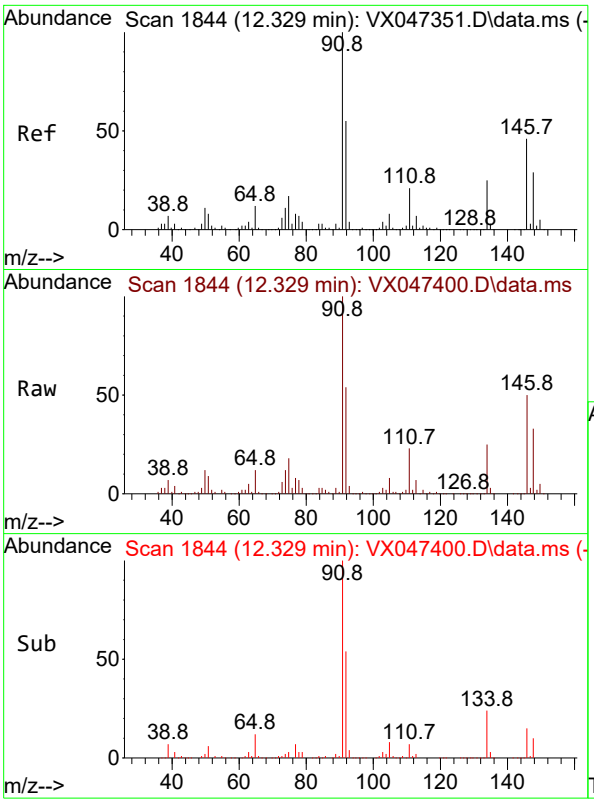


#88
1,4-Dichlorobenzene
Concen: 46.253 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:146 Resp: 291680

Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.4	61.2
148	63.4	31.7	95.1



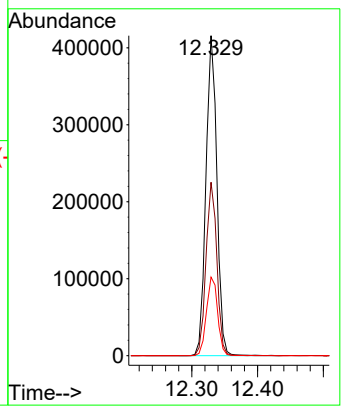


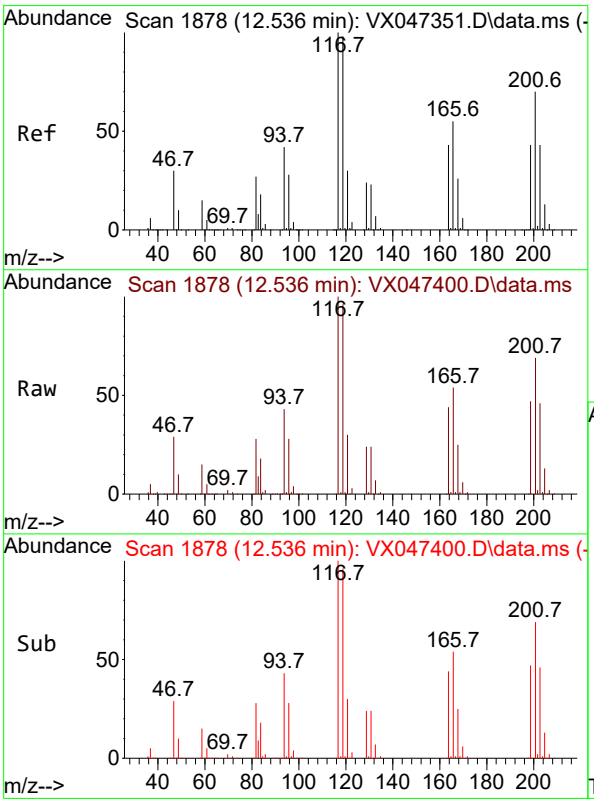
#89
n-Butylbenzene
Concen: 45.672 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 480705

Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.2	81.5
134	25.2	12.6	37.8

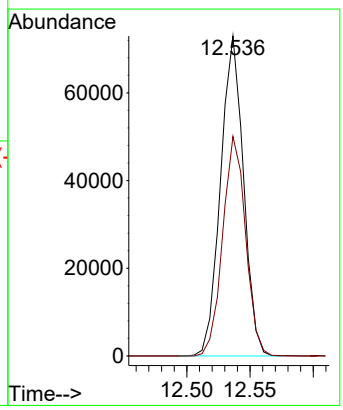


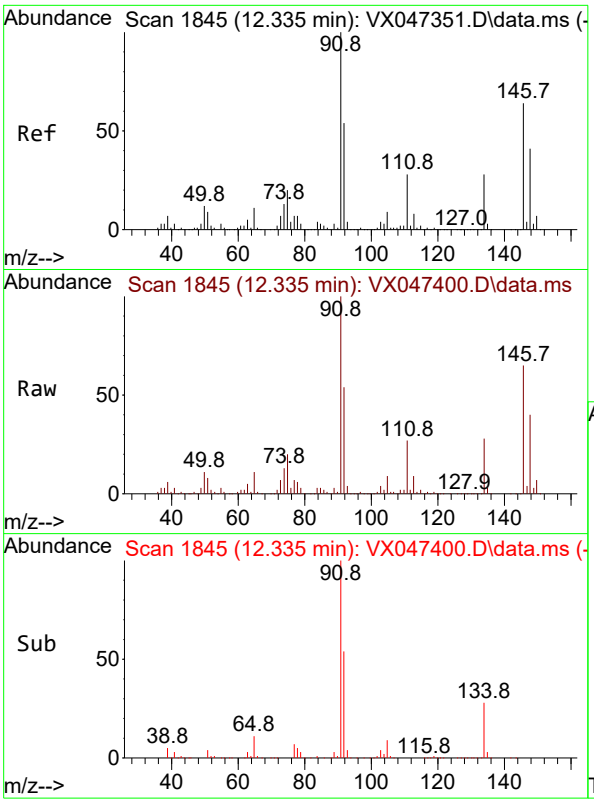


#90
Hexachloroethane
Concen: 46.201 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:117 Resp: 91716

Ion	Ratio	Lower	Upper
117	100		
201	68.6	35.1	105.3



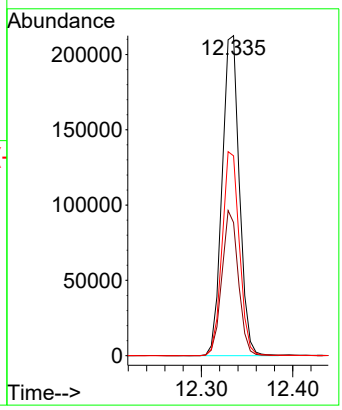


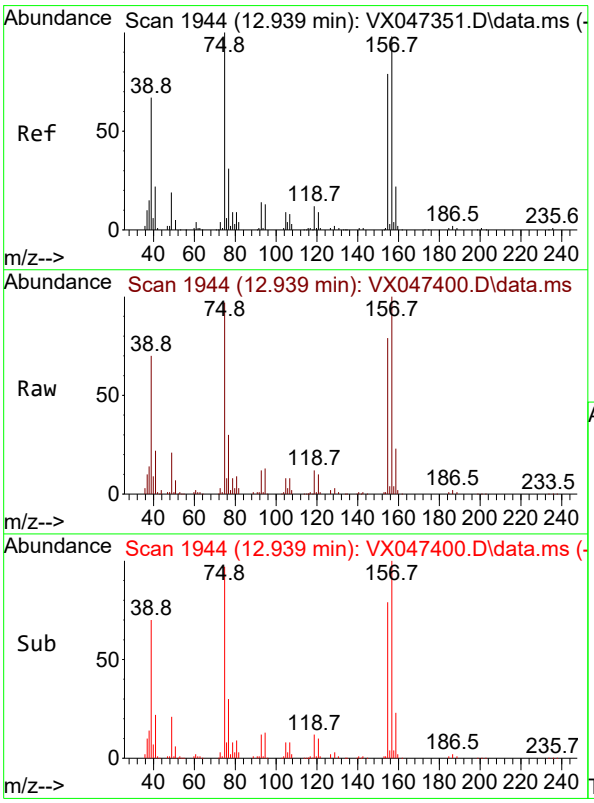
#91
1,2-Dichlorobenzene
Concen: 47.938 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 278982

Ion	Ratio	Lower	Upper
146	100		
111	43.4	22.1	66.1
148	63.9	31.9	95.5

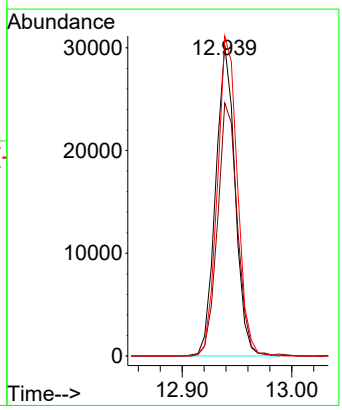


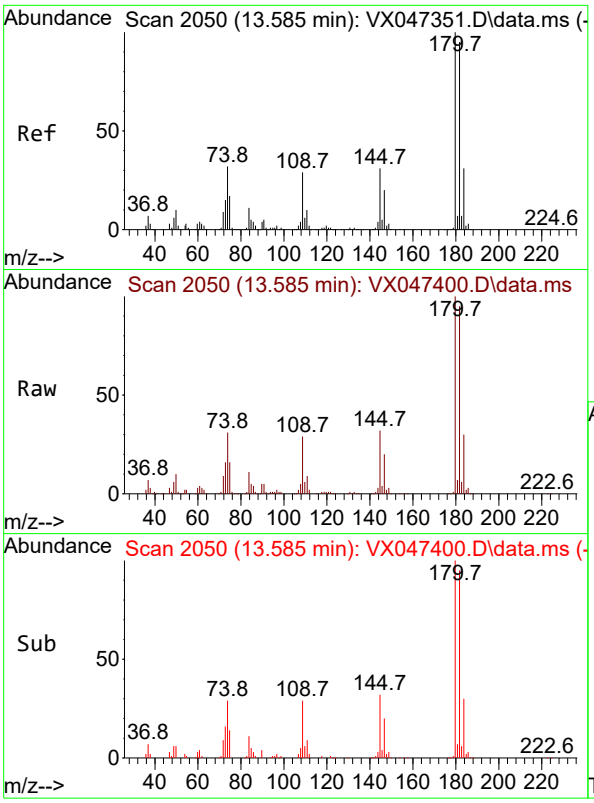


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.925 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 75 Resp: 37258

Ion	Ratio	Lower	Upper
75	100		
155	83.1	41.3	123.7
157	105.7	51.5	154.5



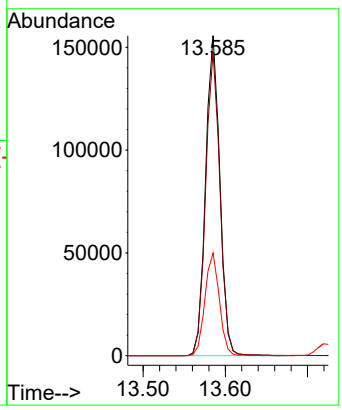


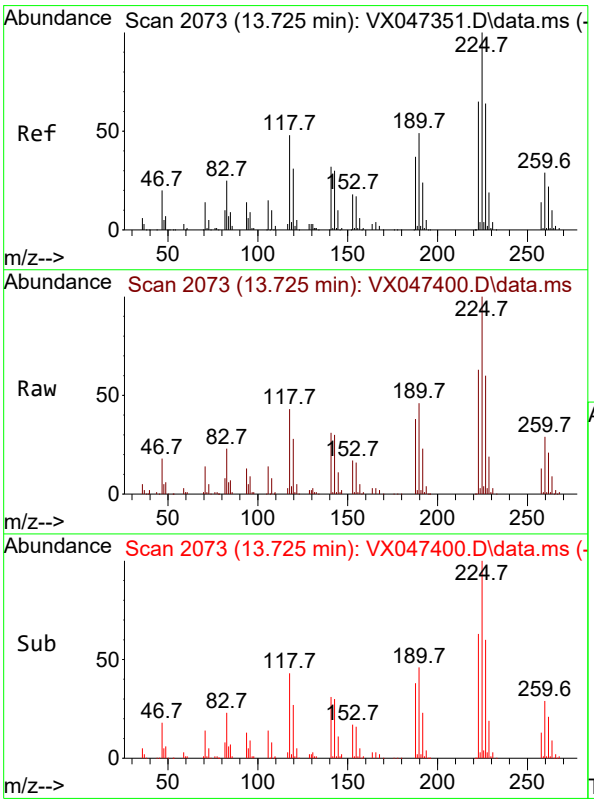
#93
1,2,4-Trichlorobenzene
Concen: 48.028 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 187378

Ion	Ratio	Lower	Upper
180	100		
182	95.0	48.1	144.4
145	32.4	16.2	48.5

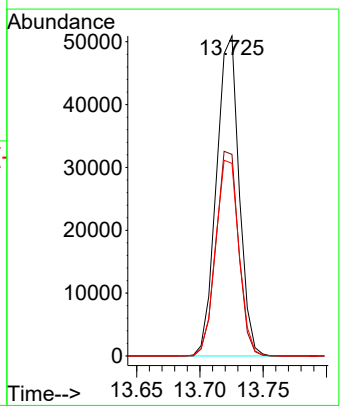


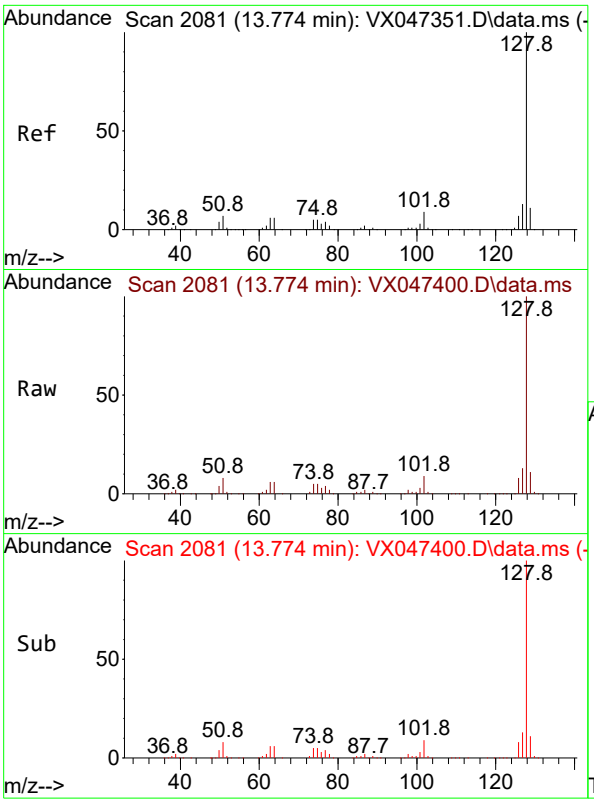


#94
Hexachlorobutadiene
Concen: 45.633 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:225 Resp: 63372

Ion	Ratio	Lower	Upper
225	100		
223	63.8	32.2	96.6
227	63.3	31.6	95.0



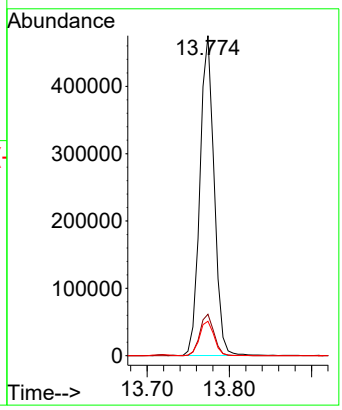


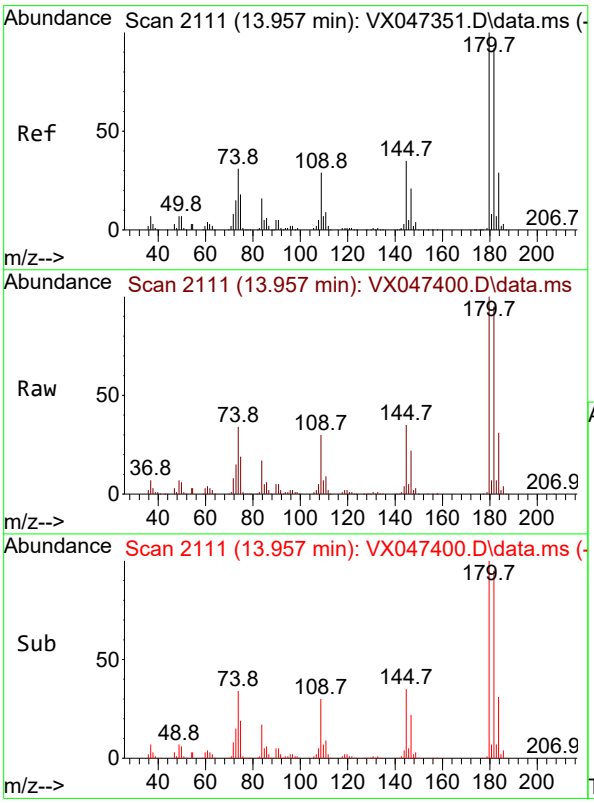
#95
Naphthalene
Concen: 51.217 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 571033

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.1	15.1
129	11.2	8.7	13.1

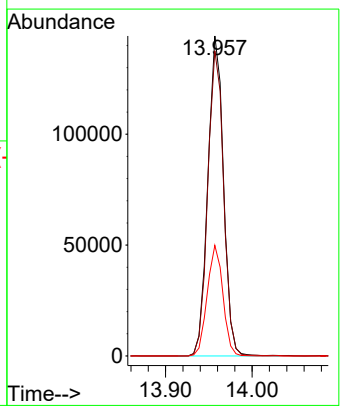




#96
1,2,3-Trichlorobenzene
Concen: 49.242 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:180 Resp: 181090

Ion	Ratio	Lower	Upper
180	100		
182	96.4	48.0	144.2
145	34.6	17.4	52.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047403.D
Acq On : 19 Aug 2025 11:55
Operator : JC/MD
Sample : VX0819WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Quant Time: Aug 19 12:13:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	225610	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	400778	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	370967	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	189862	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	171357	54.270	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.540%			
35) Dibromofluoromethane	5.391	113	135576	52.123	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.240%			
50) Toluene-d8	8.647	98	470012	50.555	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.120%			
62) 4-Bromofluorobenzene	11.079	95	181013	52.762	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	47669	16.575	ug/l	100
3) Chloromethane	1.313	50	44596	17.237	ug/l	98
4) Vinyl Chloride	1.392	62	53957	16.616	ug/l	98
5) Bromomethane	1.630	94	23833	18.170	ug/l	82
6) Chloroethane	1.709	64	34734	17.482	ug/l	98
7) Trichlorofluoromethane	1.904	101	78843	16.414	ug/l	94
8) Diethyl Ether	2.142	74	31787	18.794	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.343	101	46101	16.545	ug/l	99
10) Methyl Iodide	2.471	142	67548	14.146	ug/l	98
11) Tert butyl alcohol	2.959	59	27543	100.272	ug/l	99
12) 1,1-Dichloroethene	2.337	96	49153	17.304	ug/l	97
13) Acrolein	2.252	56	49678	85.675	ug/l	98
14) Allyl chloride	2.678	41	88890	18.017	ug/l	98
15) Acrylonitrile	3.081	53	129576	97.623	ug/l	99
16) Acetone	2.386	43	134660	113.461	ug/l	99
17) Carbon Disulfide	2.526	76	140642	16.407	ug/l	100
18) Methyl Acetate	2.715	43	59381	19.307	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	165987	19.208	ug/l	99
20) Methylene Chloride	2.800	84	59628	18.973	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	53480	17.738	ug/l	95
22) Diisopropyl ether	3.770	45	188286	19.306	ug/l	94
23) Vinyl Acetate	3.733	43	775713	97.042	ug/l	98
24) 1,1-Dichloroethane	3.623	63	102305	18.559	ug/l	97
25) 2-Butanone	4.562	43	164408	105.771	ug/l	98
26) 2,2-Dichloropropane	4.483	77	76816	18.463	ug/l	98
27) cis-1,2-Dichloroethene	4.501	96	65115	18.543	ug/l	99
28) Bromochloromethane	4.904	49	52508	22.891	ug/l	96
29) Tetrahydrofuran	5.019	42	97079	96.629	ug/l	96
30) Chloroform	5.099	83	106302	18.896	ug/l	97
31) Cyclohexane	5.477	56	84972	16.722	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	86840	17.934	ug/l	98
36) 1,1-Dichloropropene	5.702	75	69481	16.922	ug/l	99
37) Ethyl Acetate	4.715	43	70075	16.439	ug/l	96
38) Carbon Tetrachloride	5.684	117	75969	16.931	ug/l	98
39) Methylcyclohexane	7.385	83	77886	15.207	ug/l	97
40) Benzene	6.044	78	220693	17.957	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047403.D
Acq On : 19 Aug 2025 11:55
Operator : JC/MD
Sample : VX0819WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Quant Time: Aug 19 12:13:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	35045	19.496	ug/l		92
42) 1,2-Dichloroethane	6.092	62	81344	18.686	ug/l		99
43) Isopropyl Acetate	6.348	43	110451	18.037	ug/l		99
44) Trichloroethene	7.129	130	54266	17.244	ug/l		99
45) 1,2-Dichloropropane	7.434	63	56455	18.336	ug/l		98
46) Dibromomethane	7.580	93	41245	18.452	ug/l		98
47) Bromodichloromethane	7.824	83	84911	18.324	ug/l		95
48) Methyl methacrylate	7.696	41	58149	18.294	ug/l		98
49) 1,4-Dioxane	7.690	88	11911	385.469	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	337359	95.733	ug/l		98
52) Toluene	8.720	92	137617	18.121	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	75672	18.711	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	85316	18.637	ug/l		99
55) 1,1,2-Trichloroethane	9.153	97	54306	18.834	ug/l		100
56) Ethyl methacrylate	9.116	69	76225	17.930	ug/l		96
57) 1,3-Dichloropropane	9.305	76	94506	19.235	ug/l		97
58) 2-Chloroethyl Vinyl ether	8.238	63	194420	100.929	ug/l		98
59) 2-Hexanone	9.433	43	237159	97.292	ug/l		100
60) Dibromochloromethane	9.519	129	64471	18.814	ug/l		100
61) 1,2-Dibromoethane	9.610	107	55618	18.705	ug/l		99
64) Tetrachloroethene	9.269	164	44832	16.708	ug/l		98
65) Chlorobenzene	10.079	112	155025	17.585	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.159	131	53110	17.822	ug/l		99
67) Ethyl Benzene	10.189	91	259370	17.094	ug/l		99
68) m/p-Xylenes	10.299	106	198745	35.129	ug/l		100
69) o-Xylene	10.640	106	95777	17.591	ug/l		99
70) Styrene	10.653	104	168799	18.349	ug/l		99
71) Bromoform	10.799	173	40177	17.946	ug/l	#	99
73) Isopropylbenzene	10.957	105	247370	16.649	ug/l		100
74) N-amyl acetate	10.842	43	100954	17.893	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	78682	18.037	ug/l		97
76) 1,2,3-Trichloropropane	11.238	75	69843	20.057	ug/l		92
77) Bromobenzene	11.195	156	63986	17.636	ug/l		98
78) n-propylbenzene	11.299	91	295566	16.657	ug/l		100
79) 2-Chlorotoluene	11.360	91	182492	17.013	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	206597	16.900	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	10138	18.529	ug/l		97
82) 4-Chlorotoluene	11.451	91	216373	17.112	ug/l		100
83) tert-Butylbenzene	11.713	119	203328	16.671	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	214157	17.518	ug/l		100
85) sec-Butylbenzene	11.890	105	254977	16.867	ug/l		100
86) p-Isopropyltoluene	12.006	119	214549	16.772	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	118907	17.156	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	122086	17.126	ug/l		99
89) n-Butylbenzene	12.329	91	197431	16.594	ug/l		99
90) Hexachloroethane	12.536	117	35860	15.980	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	115308	17.527	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	14165	16.791	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	73210	16.600	ug/l		99
94) Hexachlorobutadiene	13.719	225	25313	16.124	ug/l		98
95) Naphthalene	13.774	128	217150	17.229	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	71038	17.088	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047403.D
Acq On : 19 Aug 2025 11:55
Operator : JC/MD
Sample : VX0819WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Quant Time: Aug 19 12:13:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

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

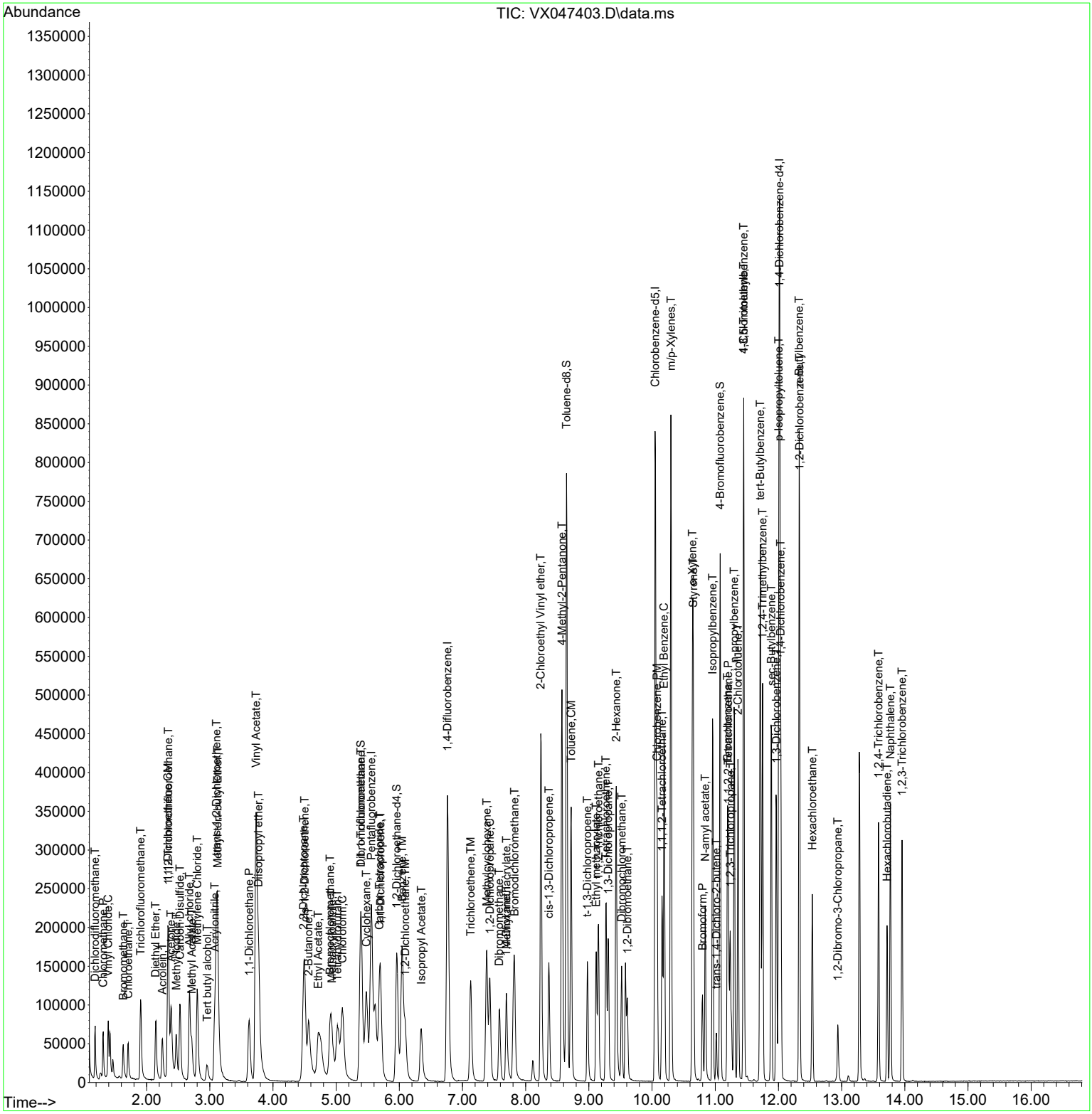
(#) = qualifier out of range (m) = manual integration (+) = signals summed

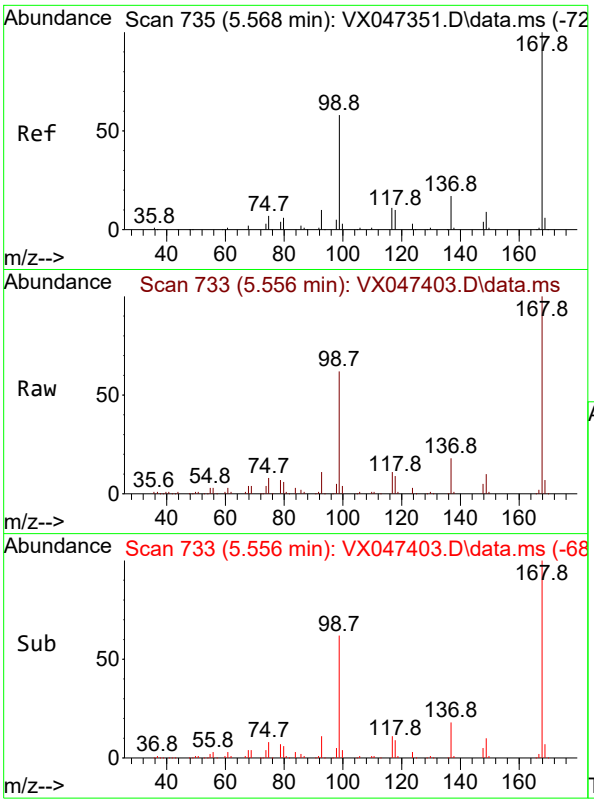
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047403.D
Acq On : 19 Aug 2025 11:55
Operator : JC/MD
Sample : VX0819WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Quant Time: Aug 19 12:13:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



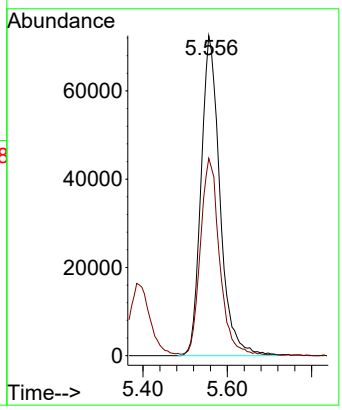


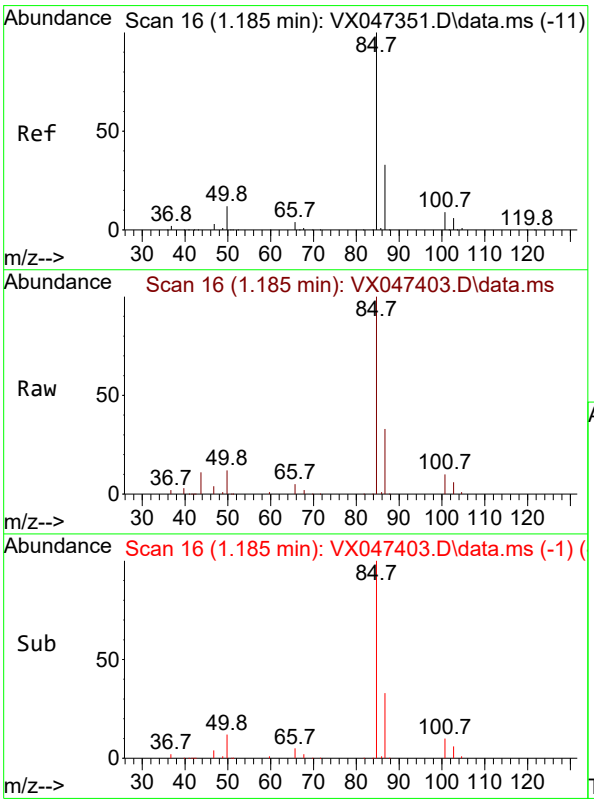
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:168 Resp: 225610

Ion	Ratio	Lower	Upper
168	100		
99	61.4	47.9	71.9

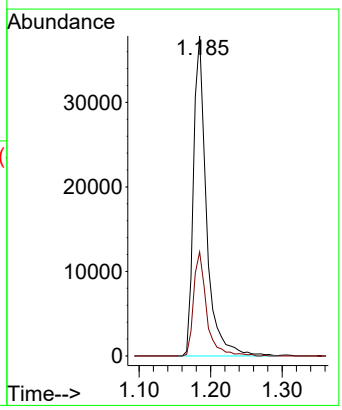


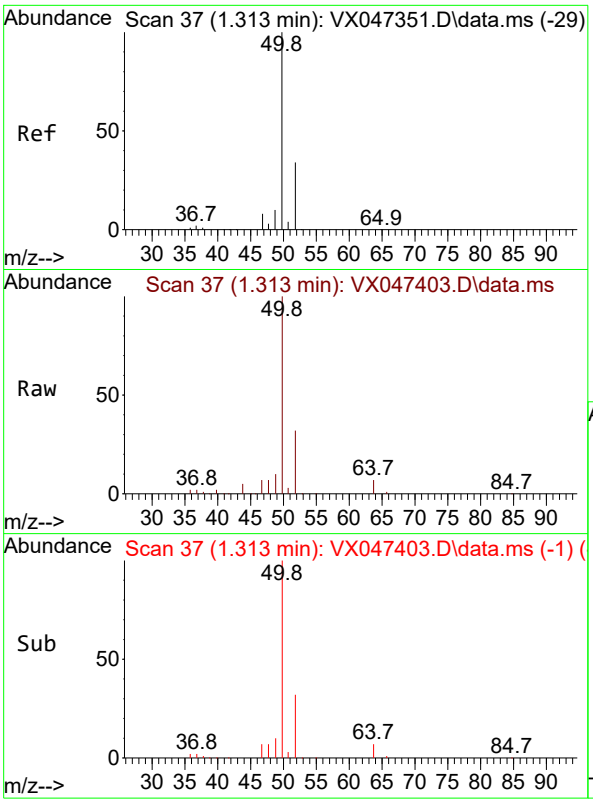


#2
Dichlorodifluoromethane
Concen: 16.575 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 85 Resp: 47669

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.4	49.1



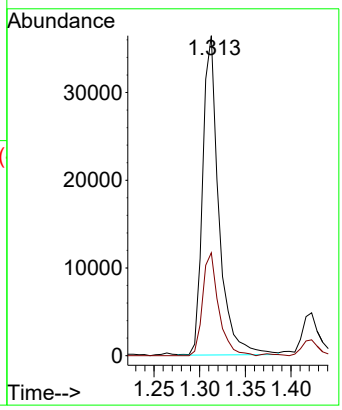


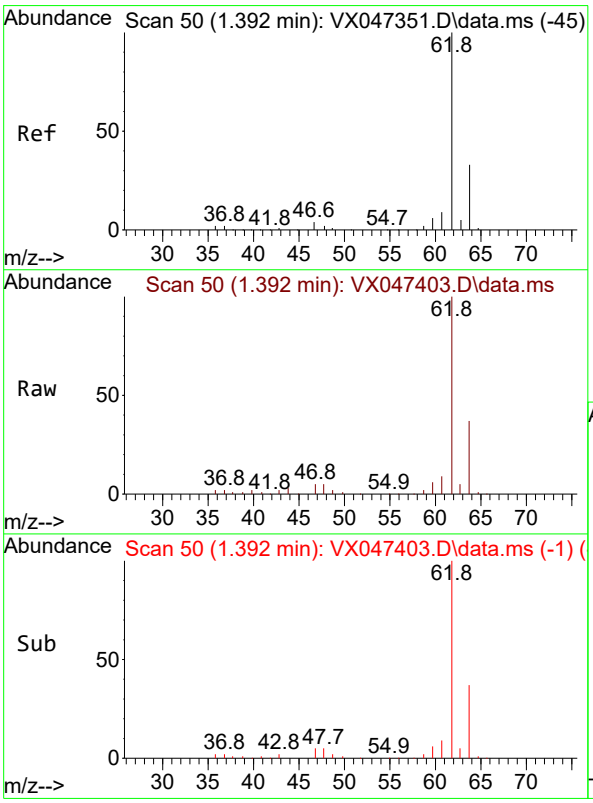
#3
Chloromethane
Concen: 17.237 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 50 Resp: 44596

Ion	Ratio	Lower	Upper
50	100		
52	32.3	27.0	40.4

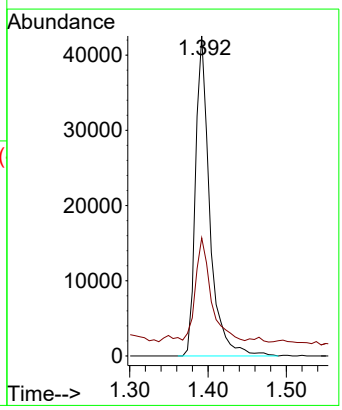


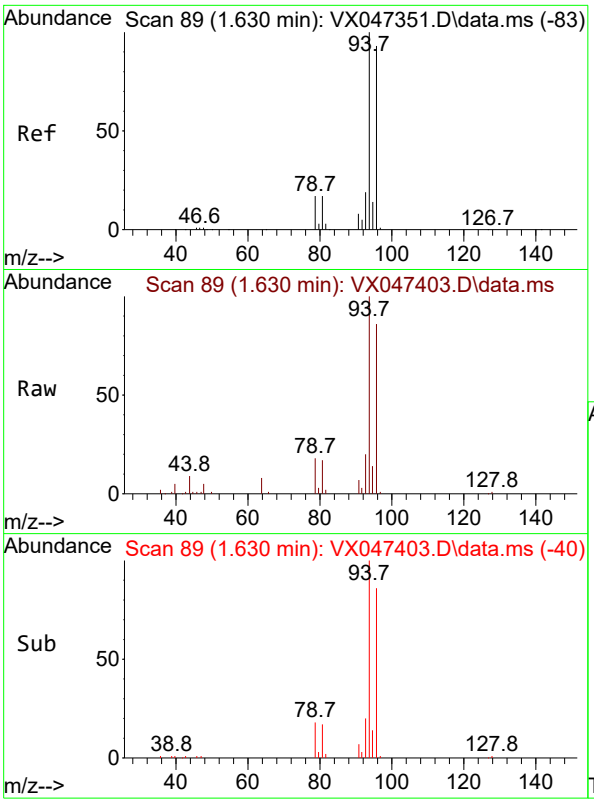


#4
Vinyl Chloride
Concen: 16.616 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 62 Resp: 53957

Ion	Ratio	Lower	Upper
62	100		
64	32.2	26.5	39.7



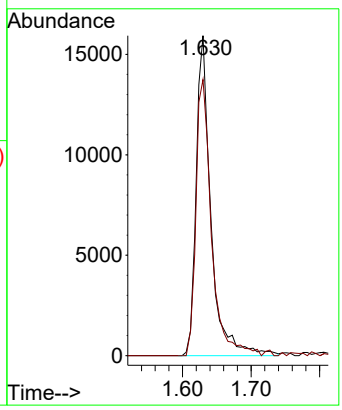


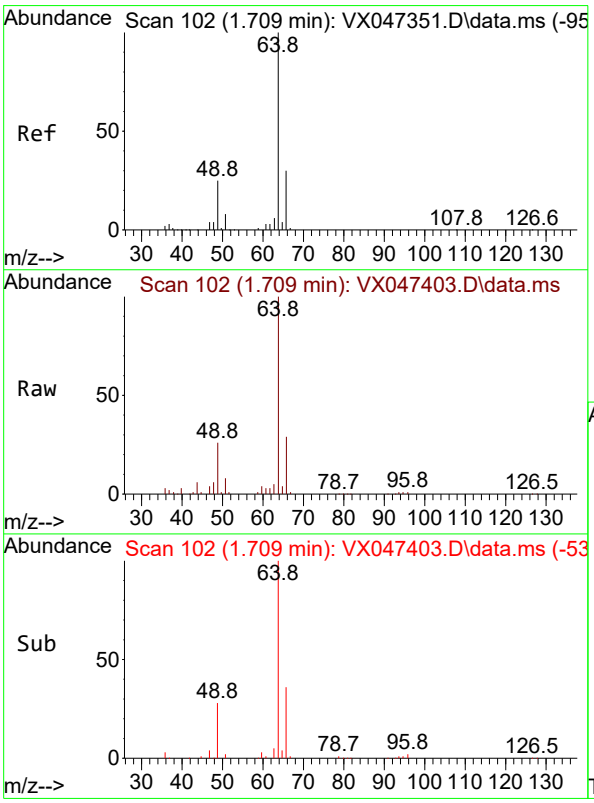
#5
Bromomethane
Concen: 18.170 ug/l
RT: 1.630 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 94 Resp: 23833

Ion	Ratio	Lower	Upper
94	100		
96	75.7	74.7	112.1

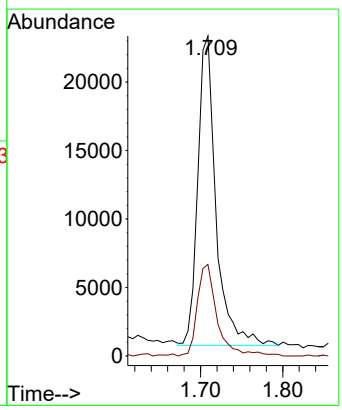


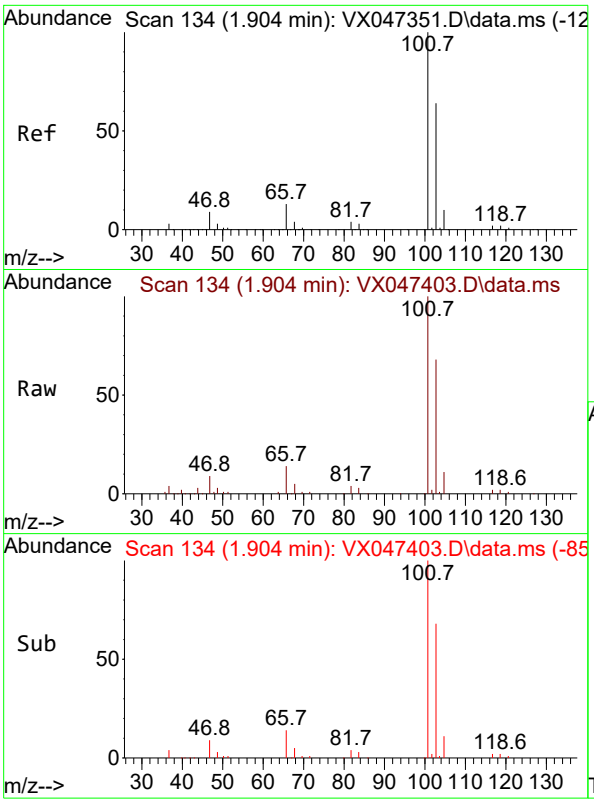


#6
Chloroethane
Concen: 17.482 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 64 Resp: 34734

Ion	Ratio	Lower	Upper
64	100		
66	29.6	24.4	36.6



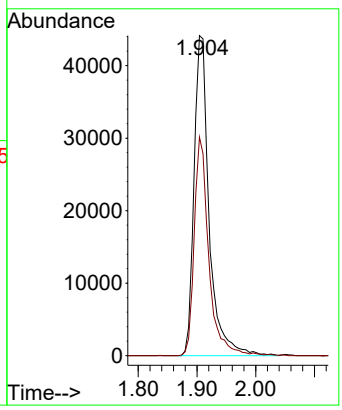


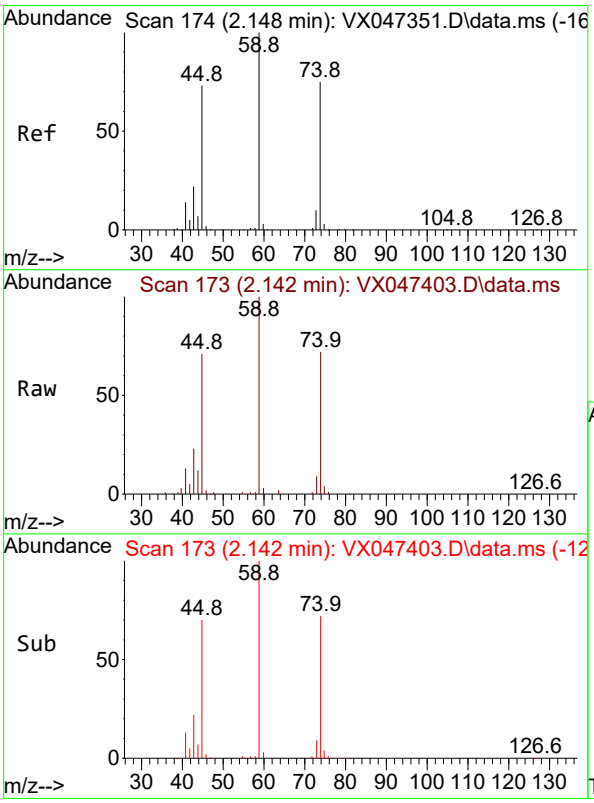
#7
Trichlorofluoromethane
Concen: 16.414 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:101 Resp: 78843

Ion	Ratio	Lower	Upper
101	100		
103	68.3	50.9	76.3

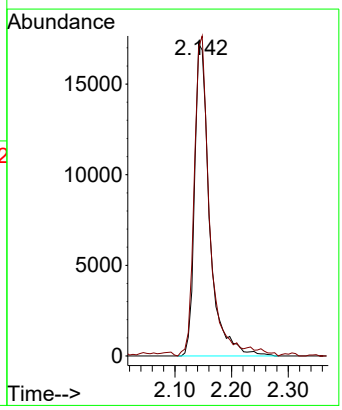


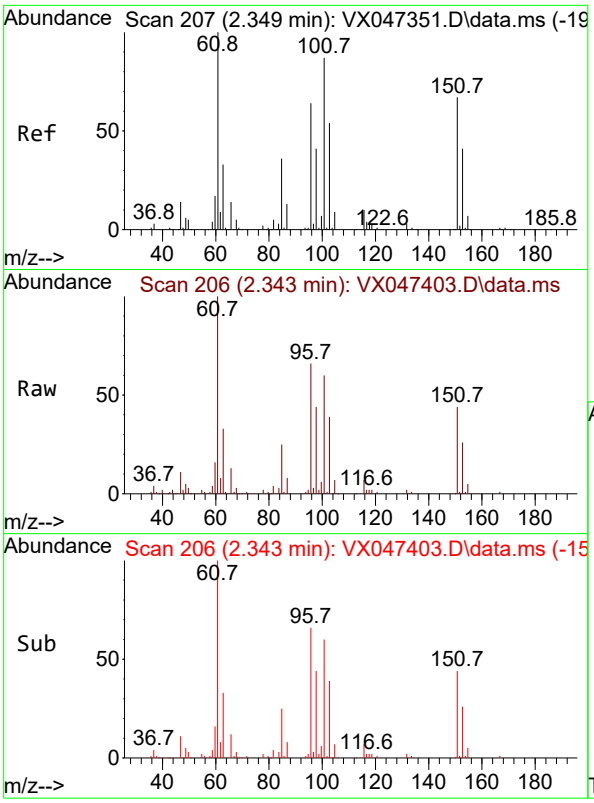


#8
Diethyl Ether
Concen: 18.794 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 74 Resp: 31787

Ion	Ratio	Lower	Upper
74	100		
45	103.0	51.3	154.0



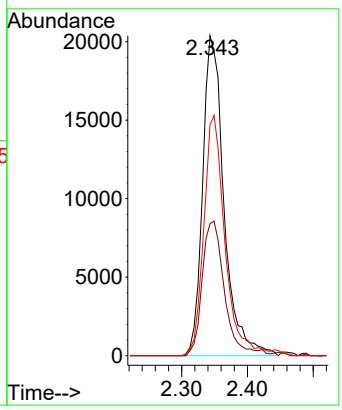


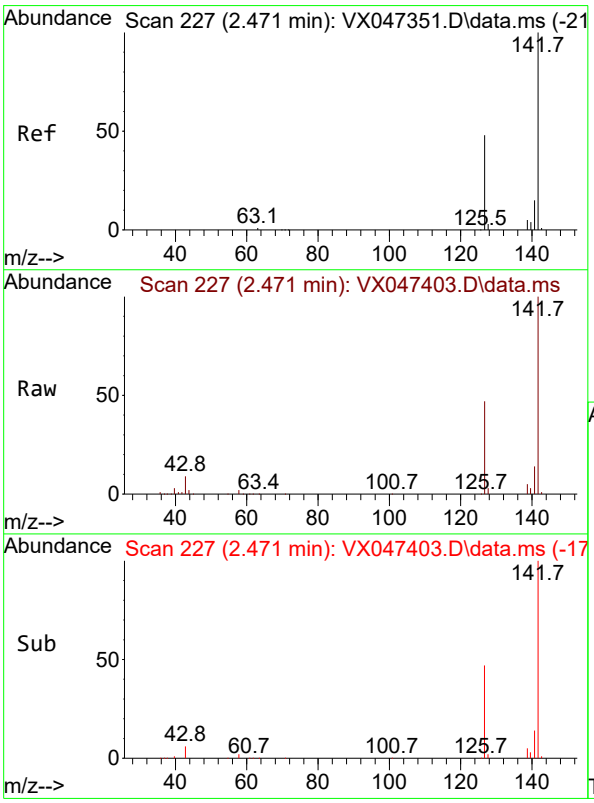
#9
1,1,2-Trichlorotrifluoroethane
Concen: 16.545 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:101 Resp: 46101

Ion	Ratio	Lower	Upper
101	100		
85	43.8	34.3	51.5
151	74.2	59.2	88.8

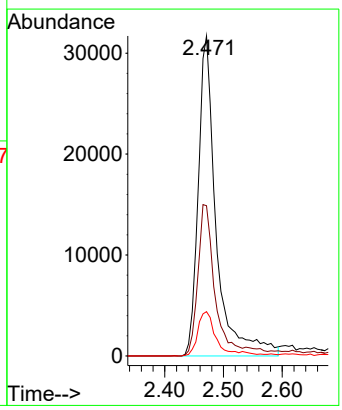


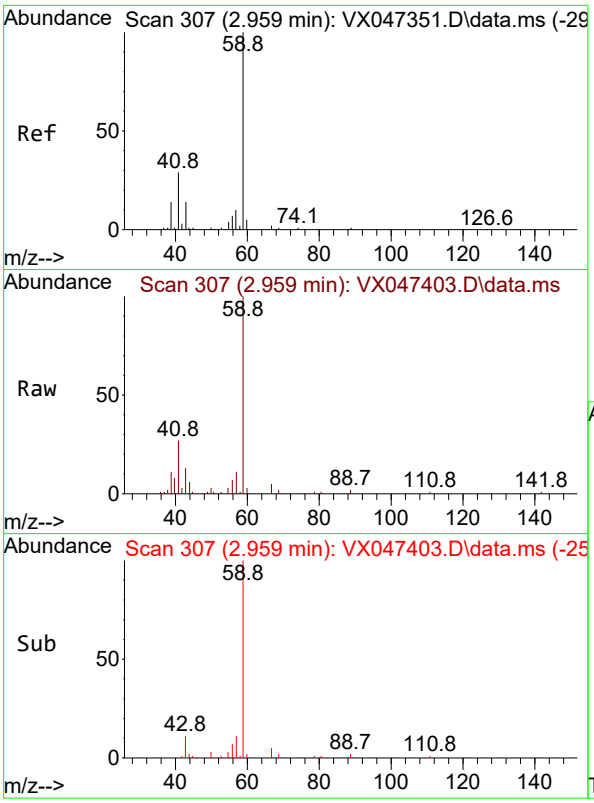


#10
Methyl Iodide
Concen: 14.146 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:142 Resp: 67548

Ion	Ratio	Lower	Upper
142	100		
127	46.6	36.1	54.1
141	13.5	11.1	16.7



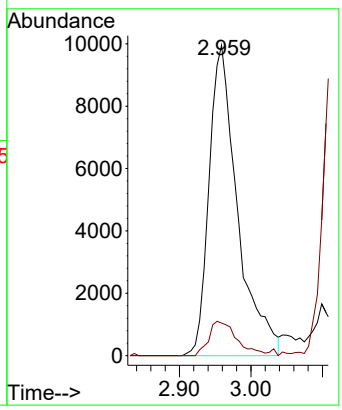


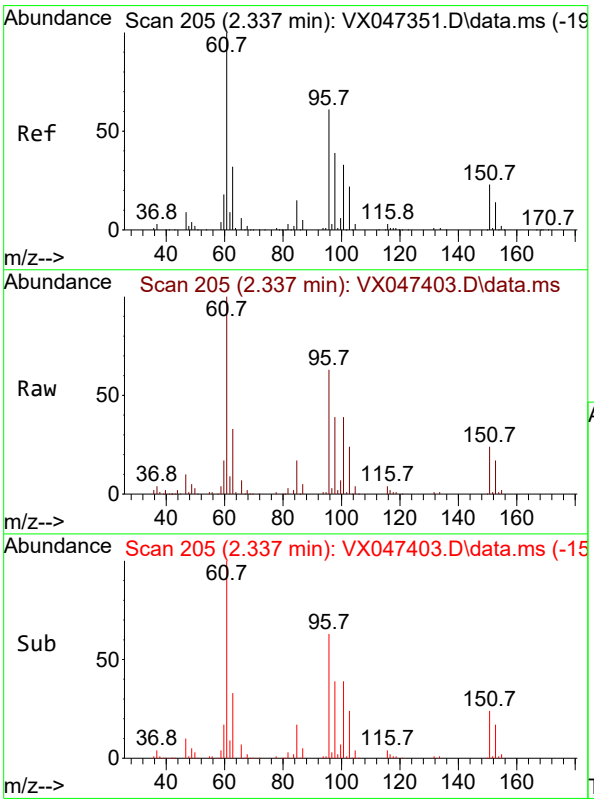
#11
Tert butyl alcohol
Concen: 100.272 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 59 Resp: 27543

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.3	12.5

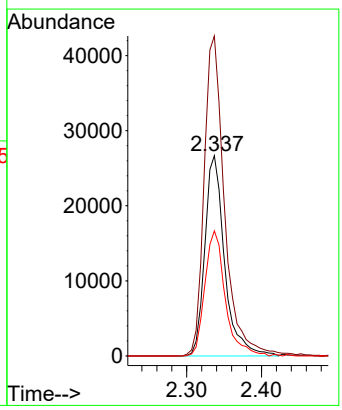


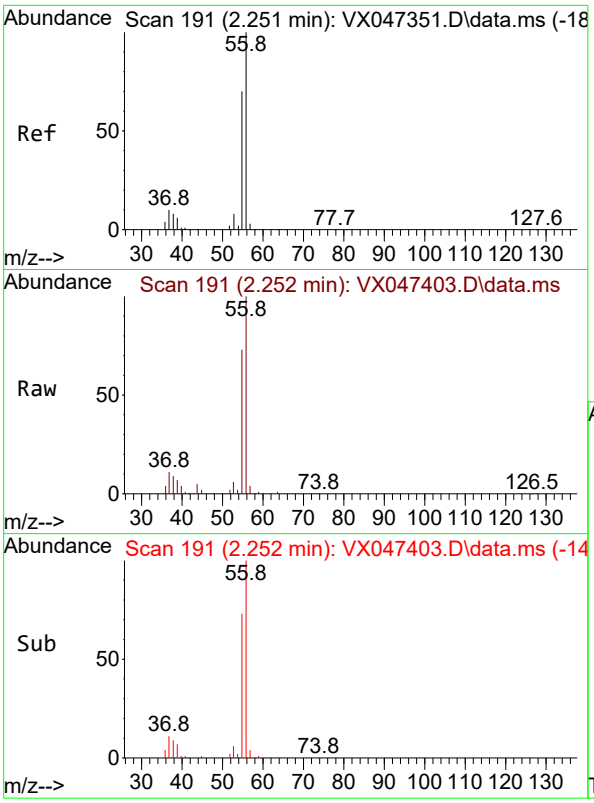


#12
1,1-Dichloroethene
Concen: 17.304 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 96 Resp: 49153

Ion	Ratio	Lower	Upper
96	100		
61	159.7	132.2	198.2
98	62.4	51.2	76.8



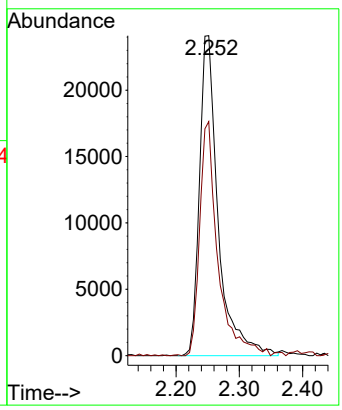


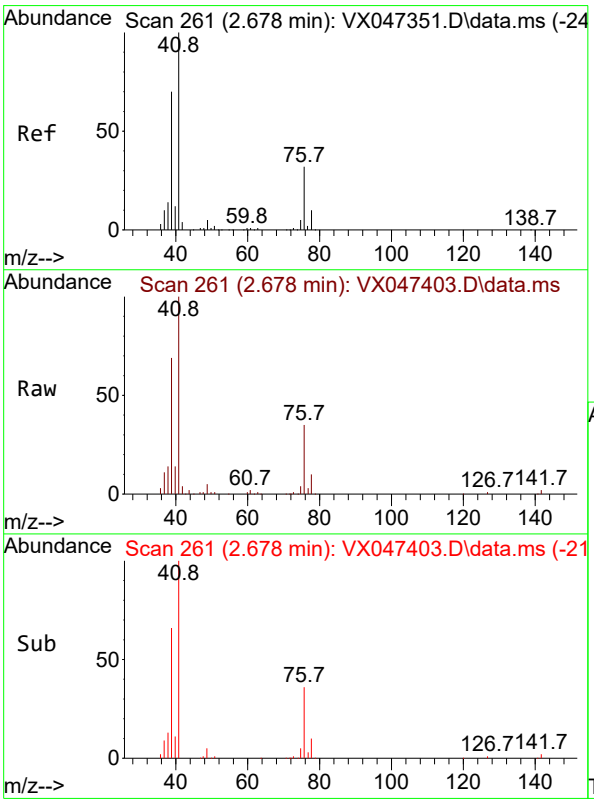
#13
Acrolein
Concen: 85.675 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 56 Resp: 49678

Ion	Ratio	Lower	Upper
56	100		
55	70.9	55.5	83.3

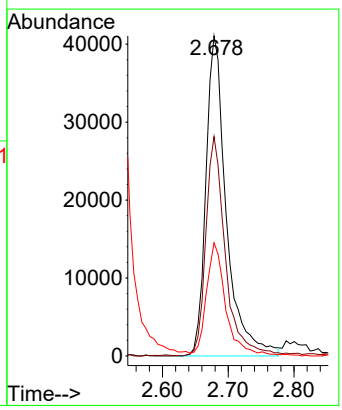


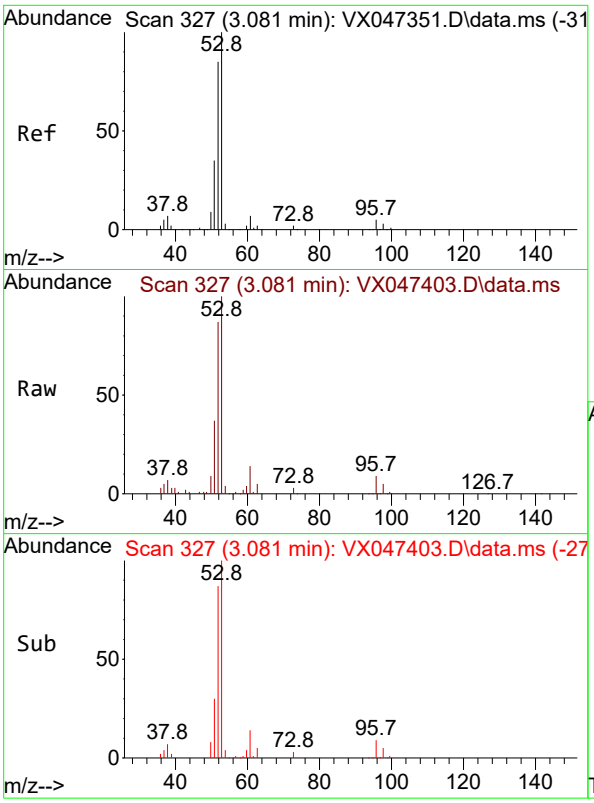


#14
Allyl chloride
Concen: 18.017 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 41 Resp: 88890

Ion	Ratio	Lower	Upper
41	100		
39	66.1	54.6	81.8
76	33.8	27.6	41.4



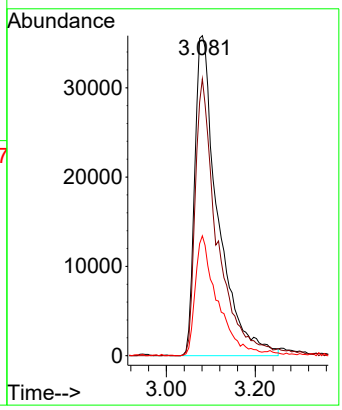


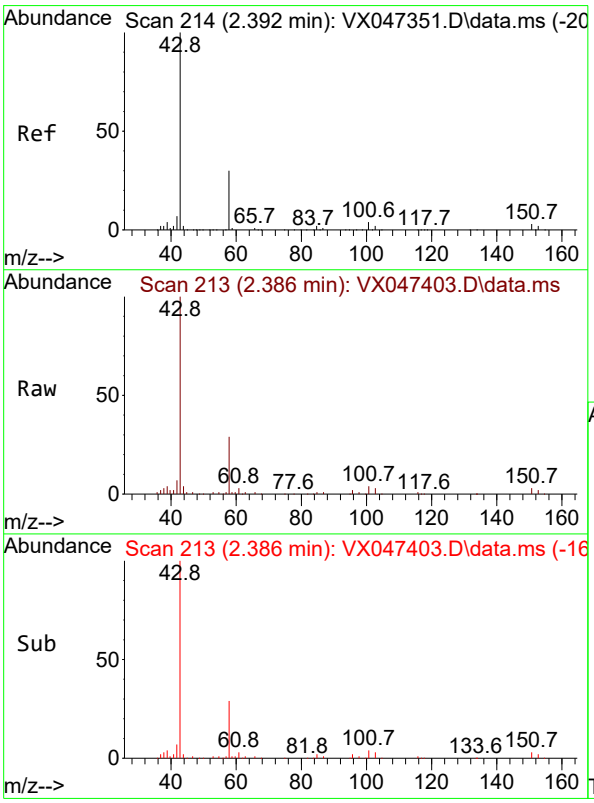
#15
Acrylonitrile
Concen: 97.623 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 53 Resp: 129576

Ion	Ratio	Lower	Upper
53	100		
52	81.7	65.8	98.6
51	35.9	28.2	42.2

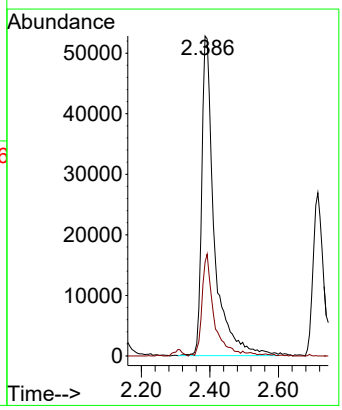


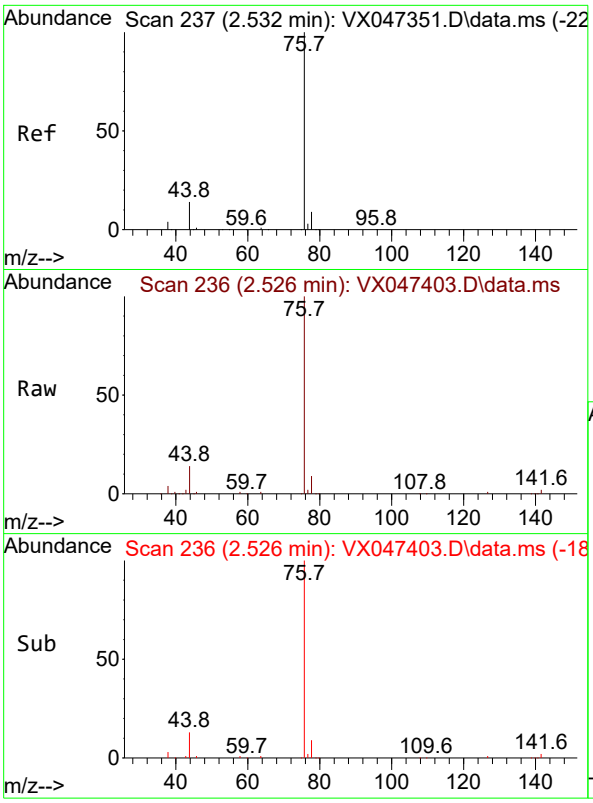


#16
Acetone
Concen: 113.461 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 134660

Ion	Ratio	Lower	Upper
43	100		
58	30.5	24.8	37.2



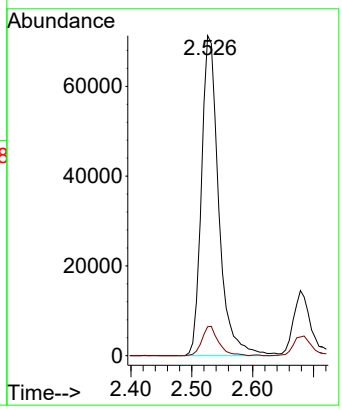


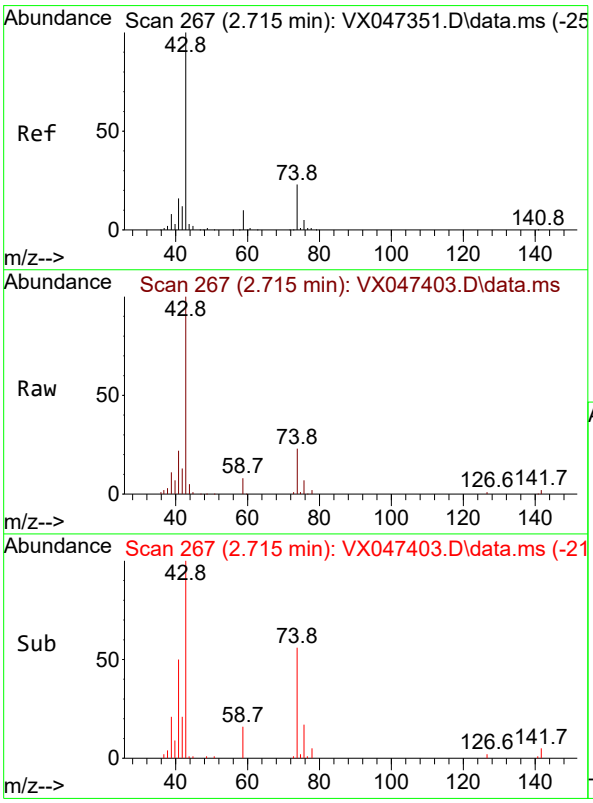
#17
Carbon Disulfide
Concen: 16.407 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 76 Resp: 140642

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

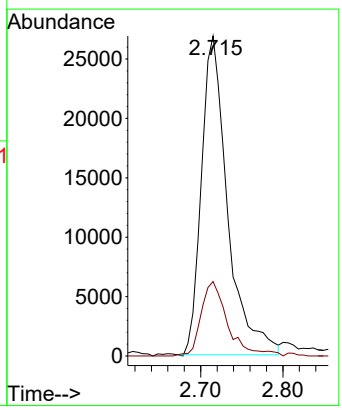


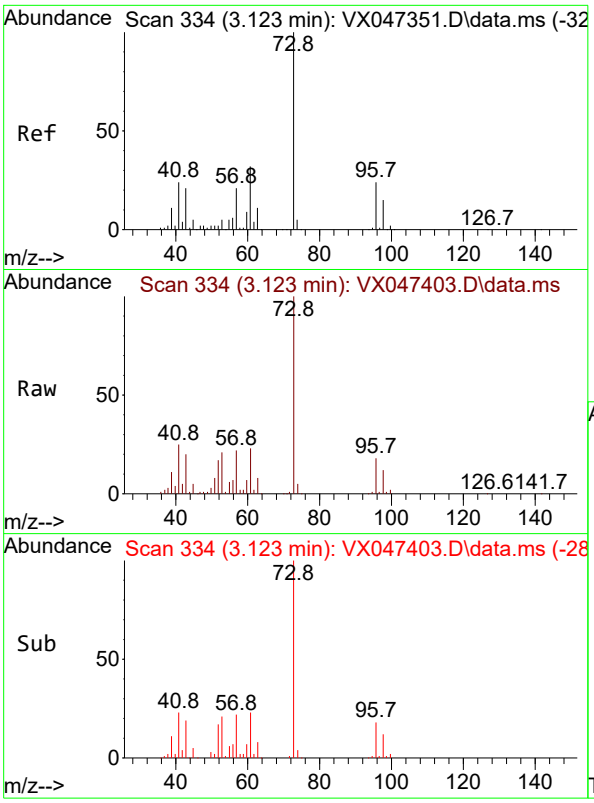


#18
Methyl Acetate
Concen: 19.307 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 59381

Ion	Ratio	Lower	Upper
43	100		
74	23.6	18.4	27.6



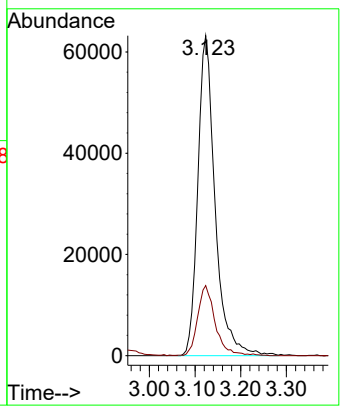


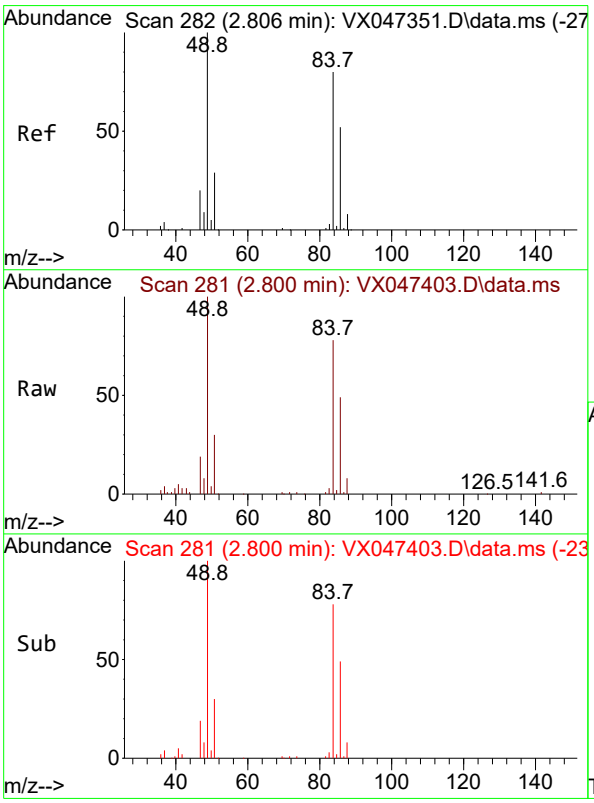
#19
Methyl tert-butyl Ether
Concen: 19.208 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 73 Resp: 165987

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.0	25.6

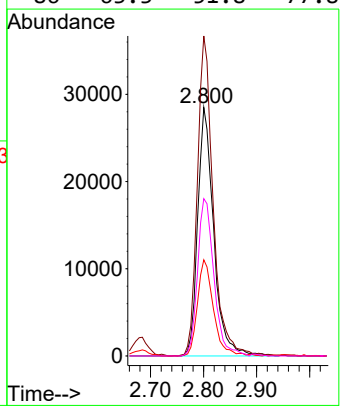


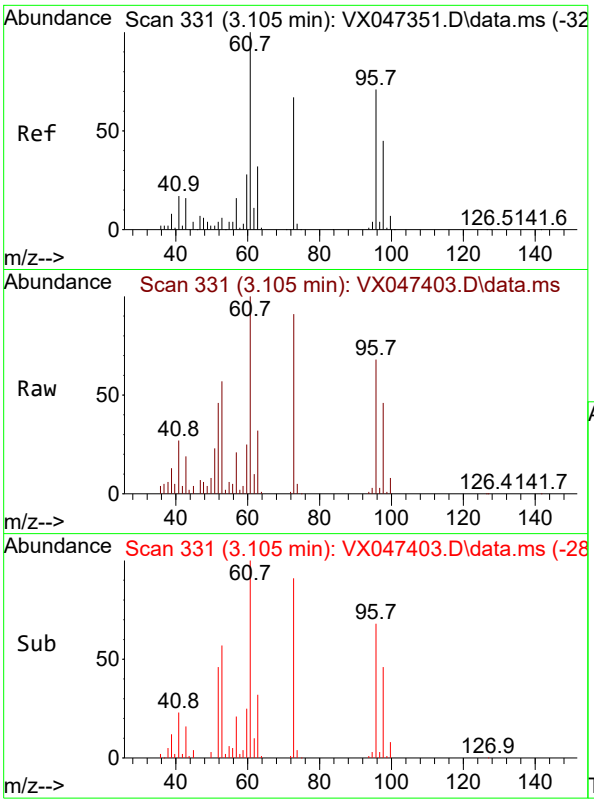


#20
Methylene Chloride
Concen: 18.973 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 84 Resp: 59628

Ion	Ratio	Lower	Upper
84	100		
49	128.7	100.1	150.1
51	38.7	29.5	44.3
86	63.3	51.8	77.8



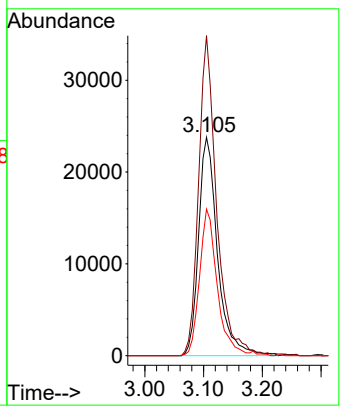


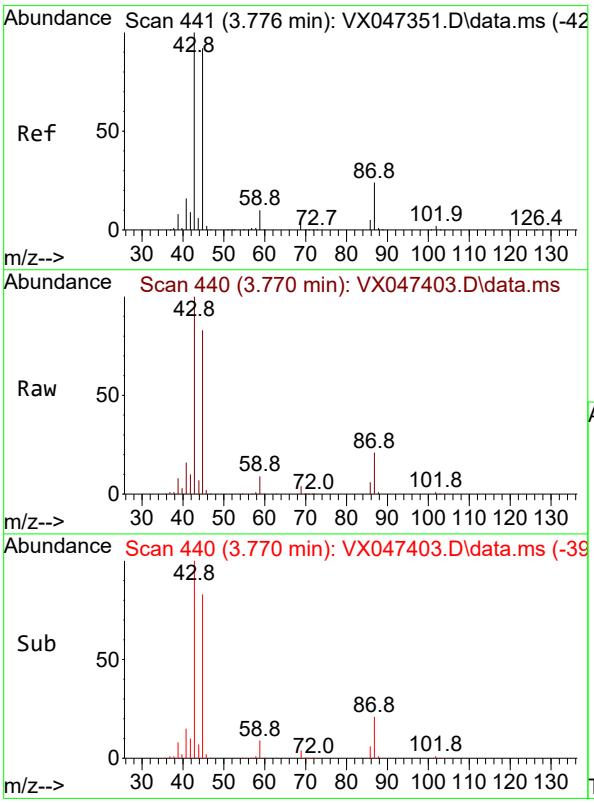
#21
trans-1,2-Dichloroethene
Concen: 17.738 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 96 Resp: 53480

Ion	Ratio	Lower	Upper
96	100		
61	146.6	112.6	169.0
98	67.1	50.9	76.3

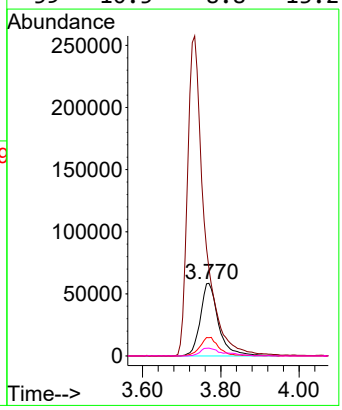


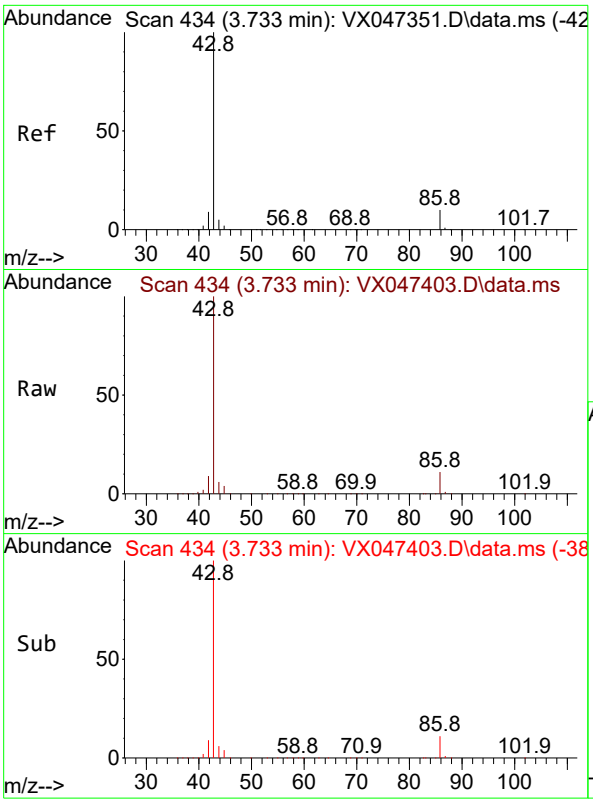


#22
Diisopropyl ether
Concen: 19.306 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 45 Resp: 188286

Ion	Ratio	Lower	Upper
45	100		
43	116.0	86.8	130.2
87	24.7	20.4	30.6
59	10.5	8.8	13.2



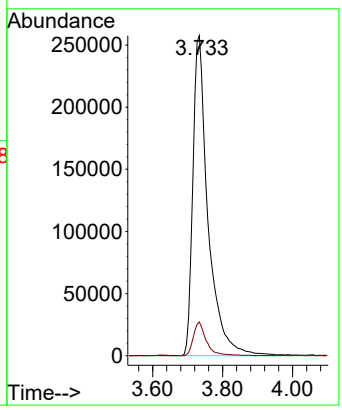


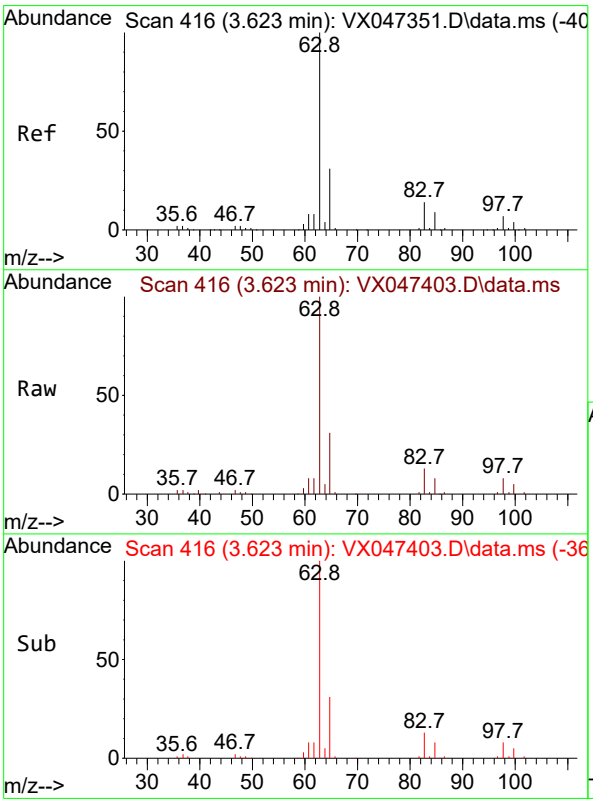
#23
Vinyl Acetate
Concen: 97.042 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 43 Resp: 775713

Ion	Ratio	Lower	Upper
43	100		
86	10.6	7.9	11.9

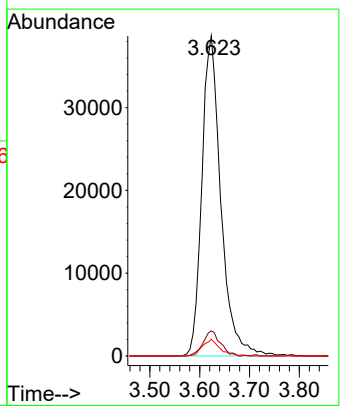


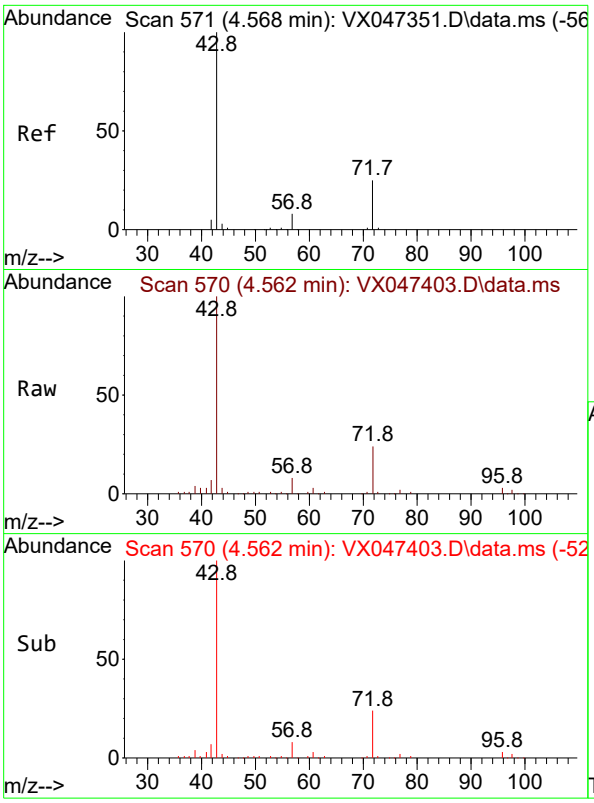


#24
1,1-Dichloroethane
Concen: 18.559 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 63 Resp: 102305

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.3	9.9
100	5.2	2.1	6.3



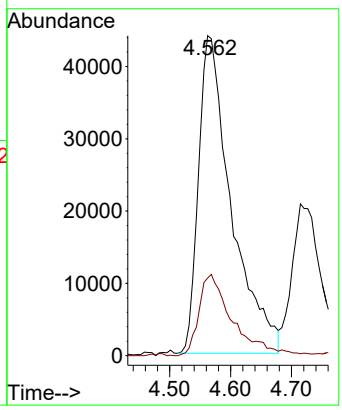


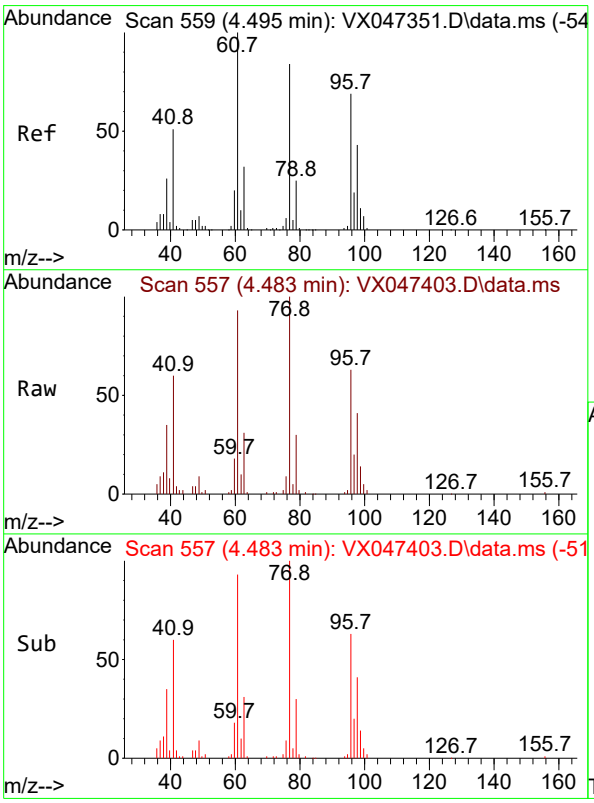
#25
2-Butanone
Concen: 105.771 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 43 Resp: 164408

Ion	Ratio	Lower	Upper
43	100		
72	25.9	19.8	29.8

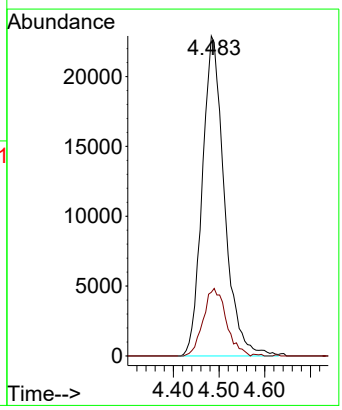


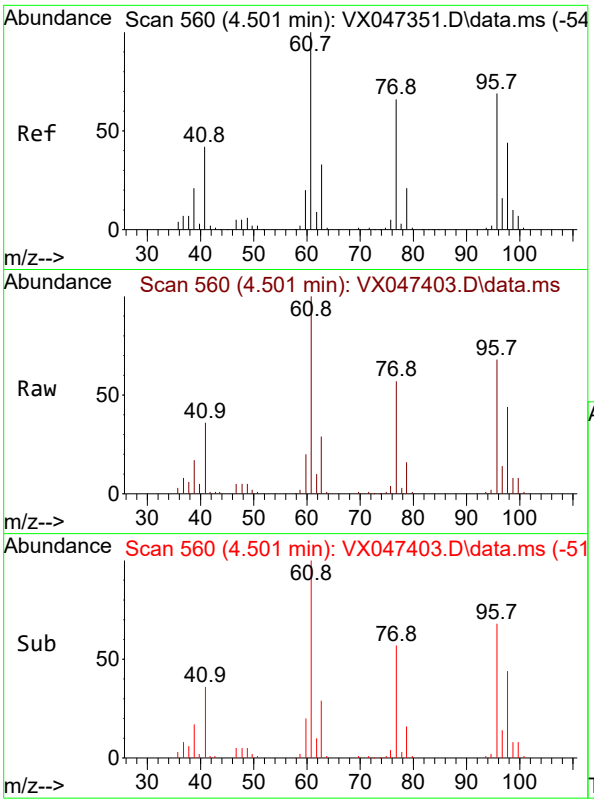


#26
2,2-Dichloropropane
Concen: 18.463 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.012 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 77 Resp: 76816

Ion	Ratio	Lower	Upper
77	100		
97	22.0	11.4	34.1



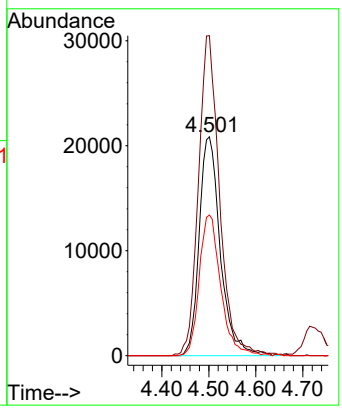


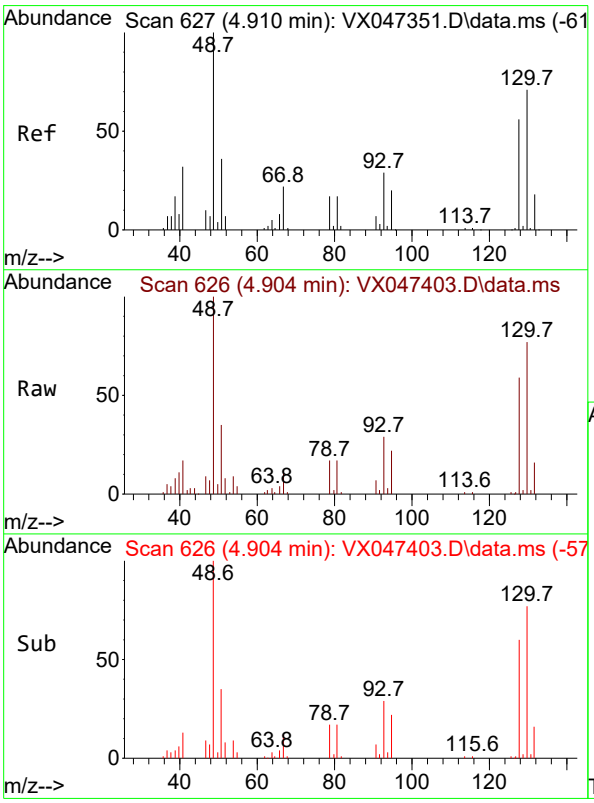
#27
cis-1,2-Dichloroethene
Concen: 18.543 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 96 Resp: 65115

Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	296.6
98	65.3	0.0	130.4

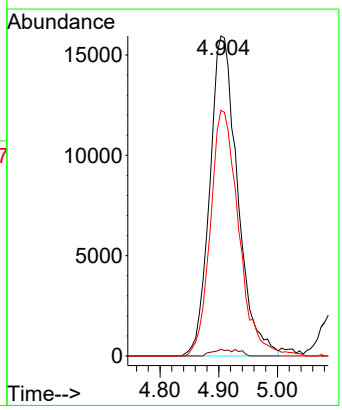


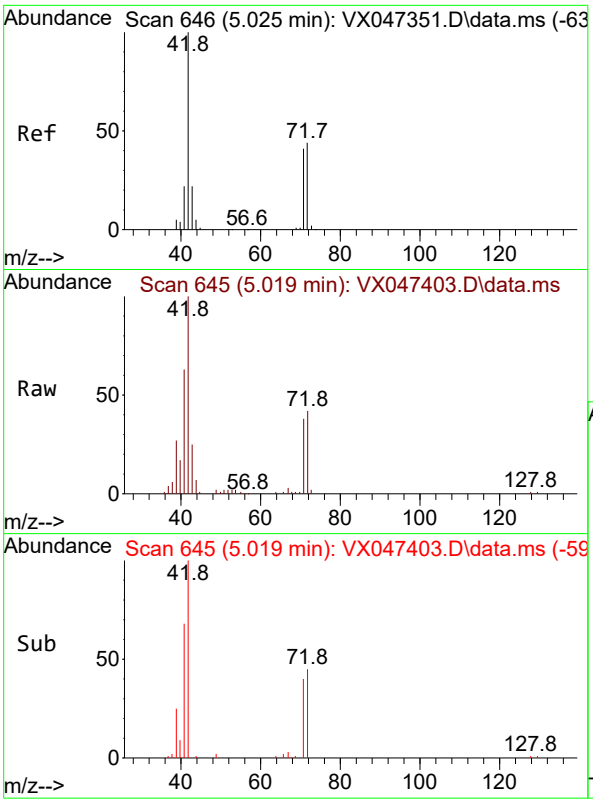


#28
Bromochloromethane
Concen: 22.891 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 49 Resp: 52508

Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	4.0
130	78.3	59.8	89.6



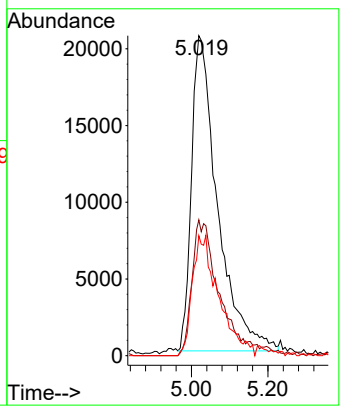


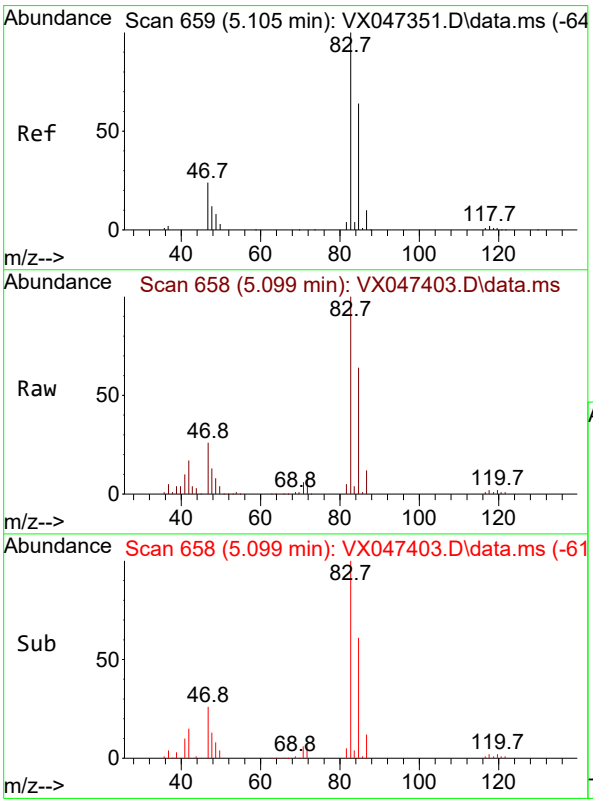
#29
Tetrahydrofuran
Concen: 96.629 ug/l
RT: 5.019 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 42 Resp: 97079

Ion	Ratio	Lower	Upper
42	100		
72	45.1	34.6	51.8
71	37.5	32.6	49.0

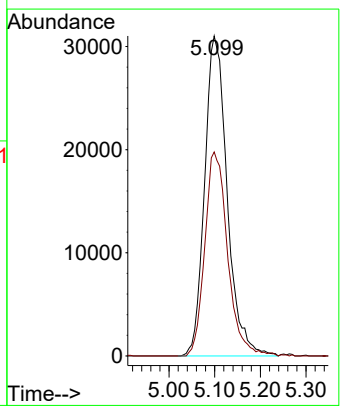


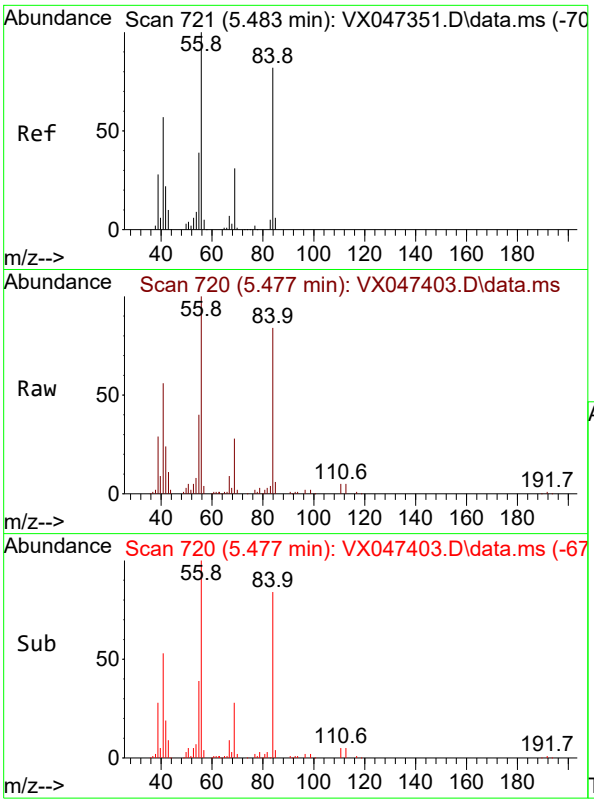


#30
Chloroform
Concen: 18.896 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 83 Resp: 106302

Ion	Ratio	Lower	Upper
83	100		
85	61.3	51.2	76.8



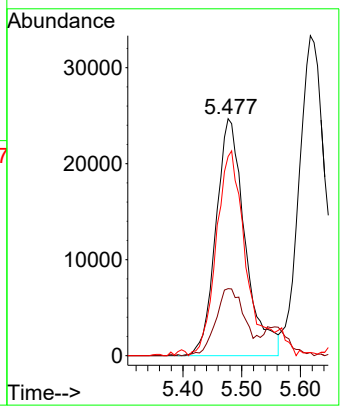


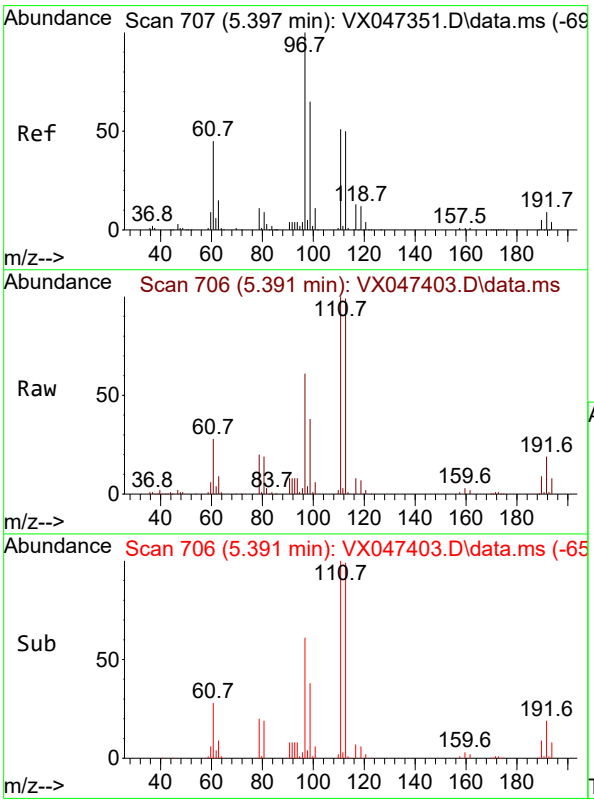
#31
Cyclohexane
Concen: 16.722 ug/l
RT: 5.477 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 56 Resp: 84972

Ion	Ratio	Lower	Upper
56	100		
69	27.8	24.3	36.5
84	82.4	65.3	97.9

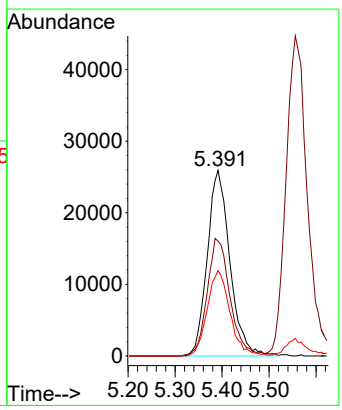


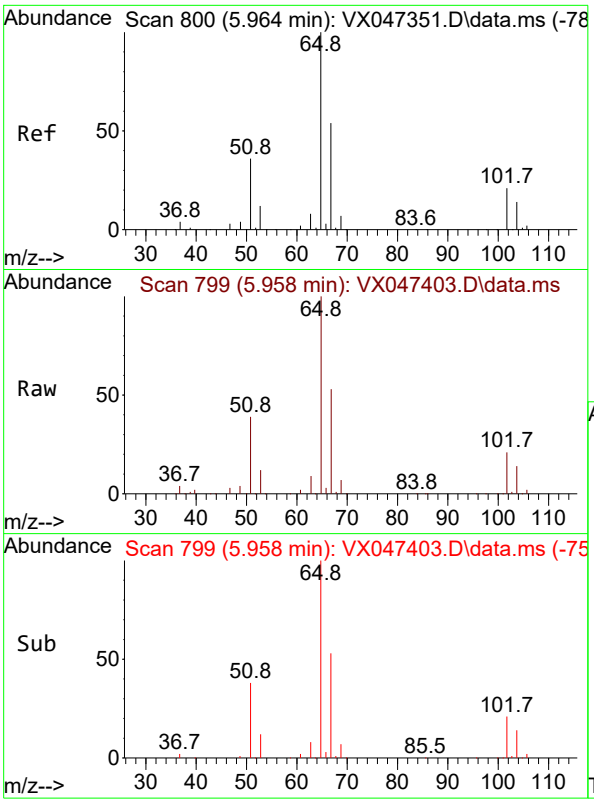


#32
1,1,1-Trichloroethane
Concen: 17.934 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 97 Resp: 86840

Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.4	77.0
61	46.2	35.7	53.5



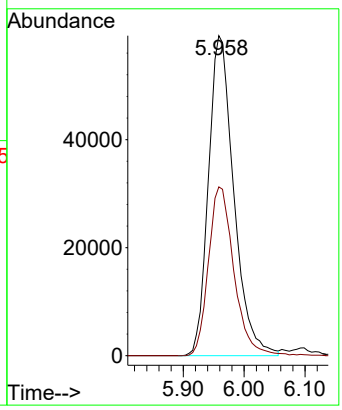


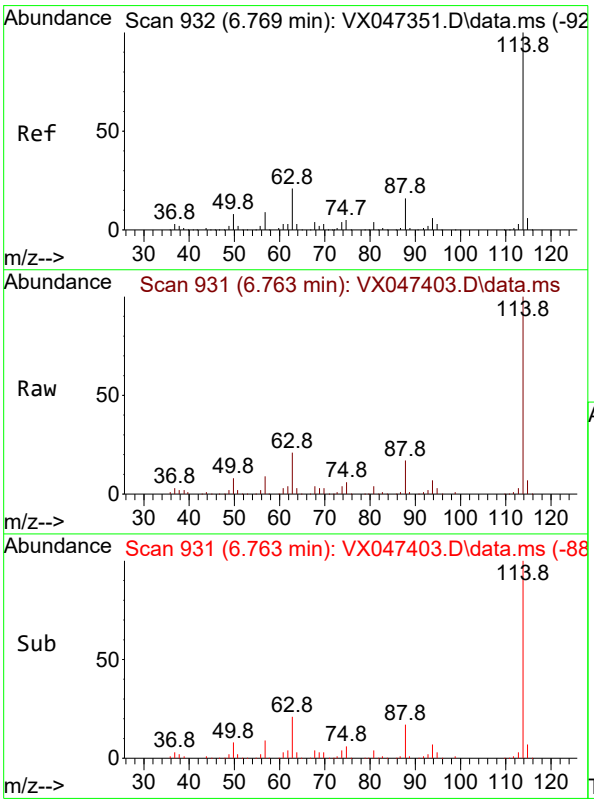
#33
1,2-Dichloroethane-d4
Concen: 54.270 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 65 Resp: 171357

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.0

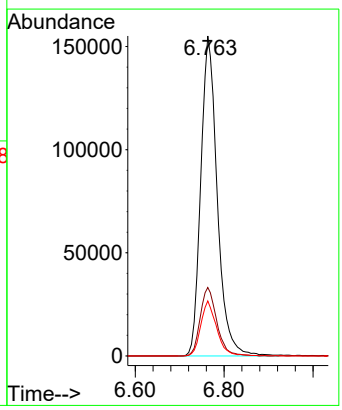


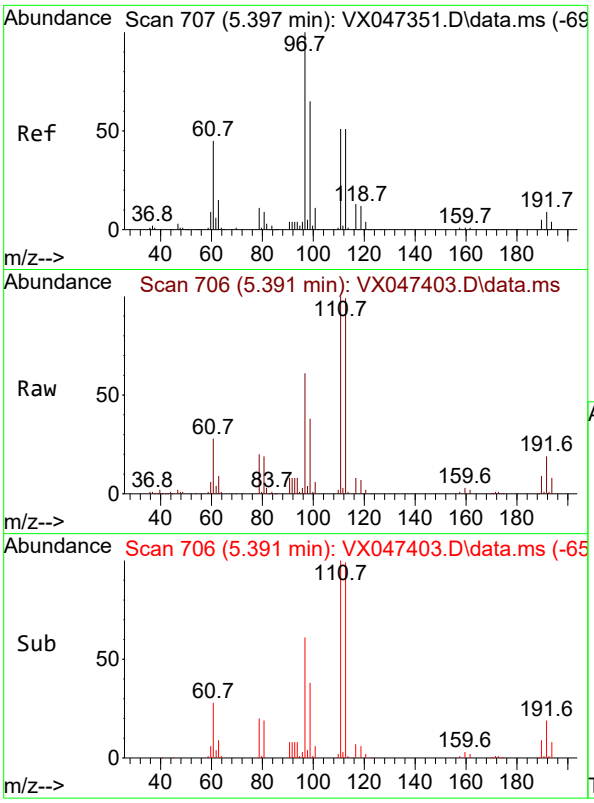


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:114 Resp: 400778

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	42.4
88	17.2	0.0	33.0



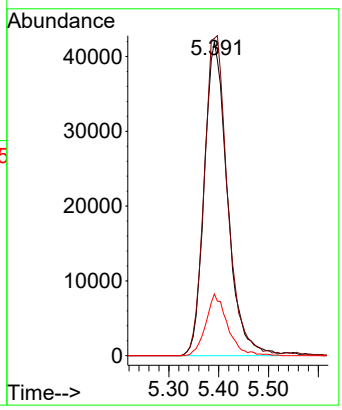


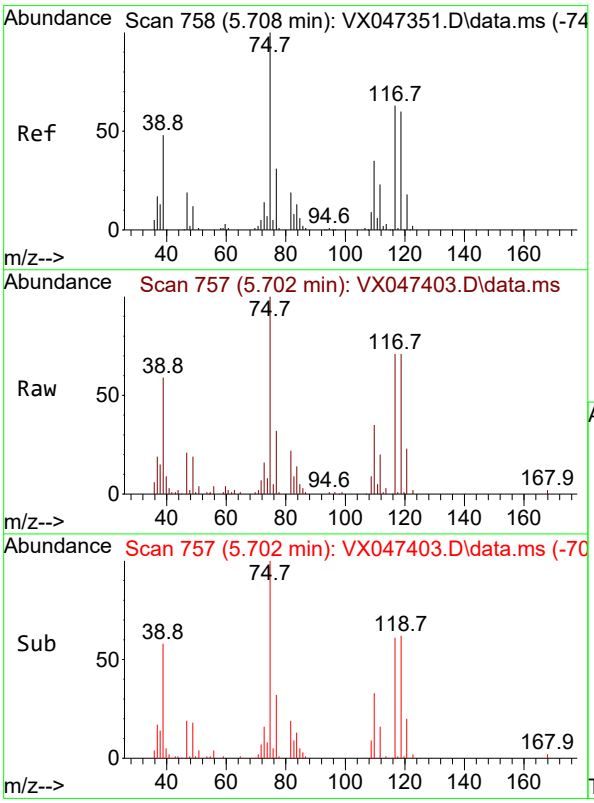
#35
Dibromofluoromethane
Concen: 52.123 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:113 Resp: 135576

Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.4	122.2
192	18.5	14.1	21.1

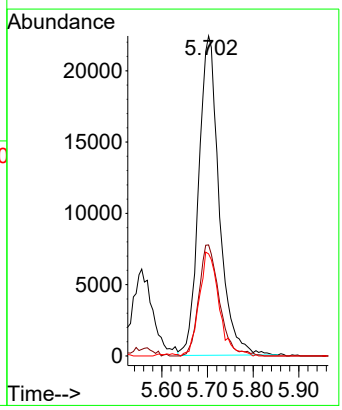


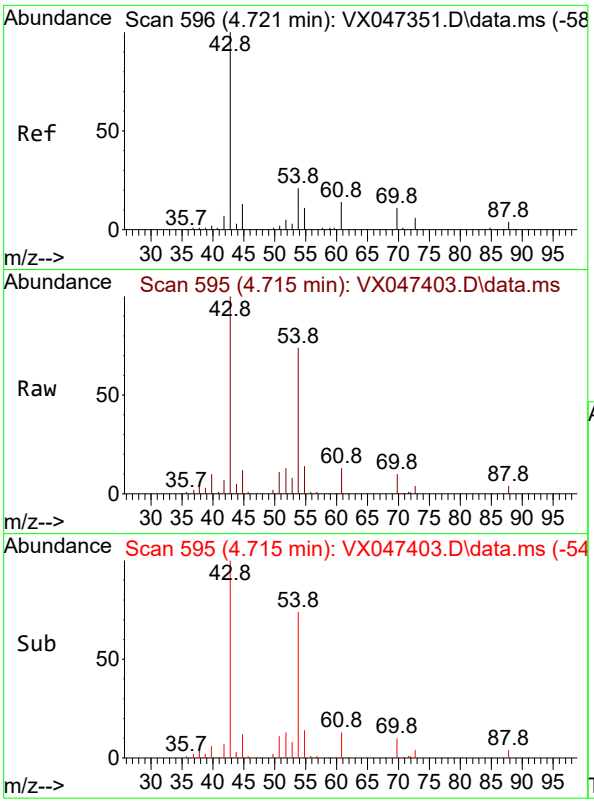


#36
1,1-Dichloropropene
Concen: 16.922 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 75 Resp: 69481

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.4	52.2
77	31.6	24.4	36.6



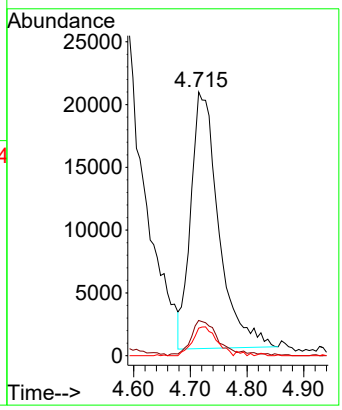


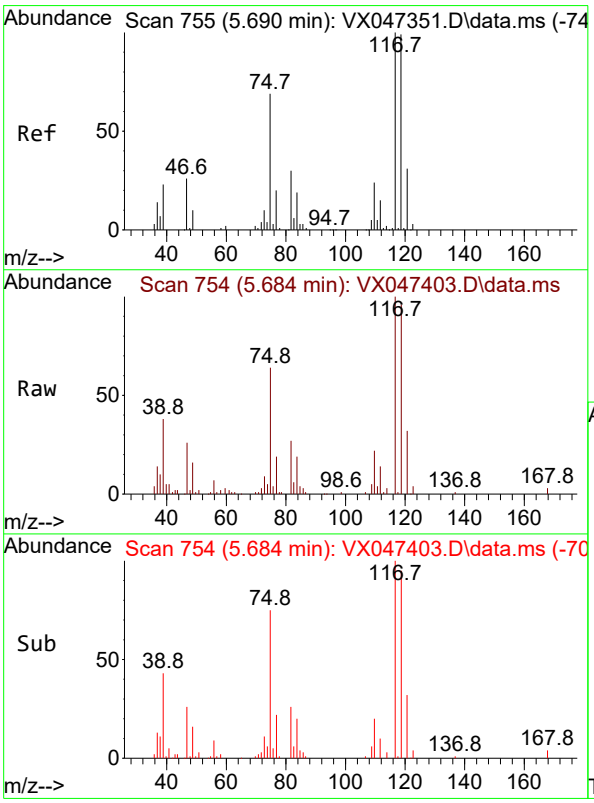
#37
Ethyl Acetate
Concen: 16.439 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 43 Resp: 70075

Ion	Ratio	Lower	Upper
43	100		
61	13.8	9.4	14.2
70	9.5	7.0	10.6

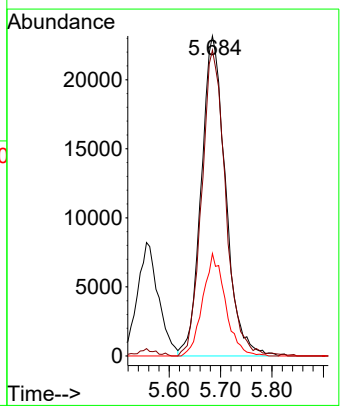


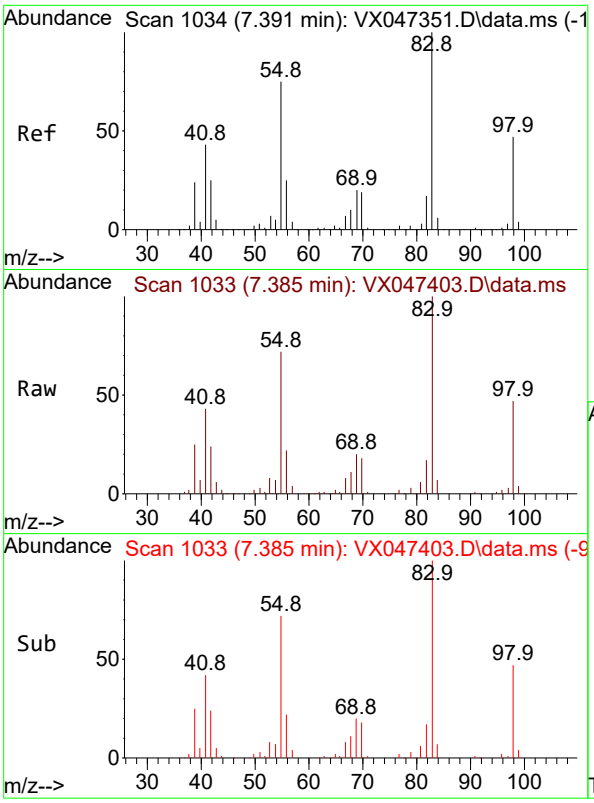


#38
Carbon Tetrachloride
Concen: 16.931 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:117 Resp: 75969

Ion	Ratio	Lower	Upper
117	100		
119	95.5	78.5	117.7
121	32.0	24.7	37.1



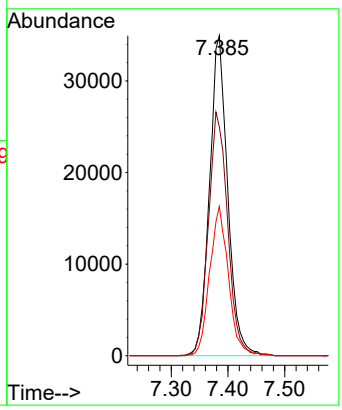


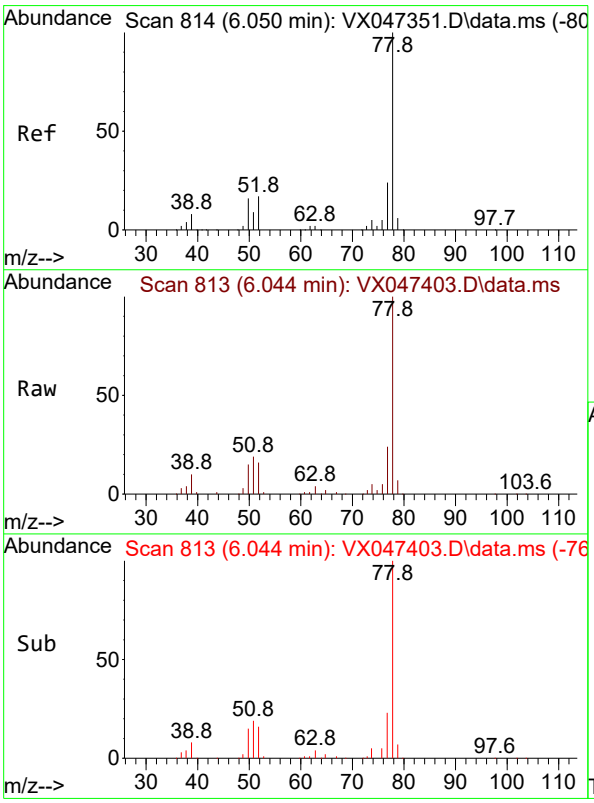
#39
Methylcyclohexane
Concen: 15.207 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 83 Resp: 77886

Ion	Ratio	Lower	Upper
83	100		
55	71.6	60.0	90.0
98	46.7	37.2	55.8

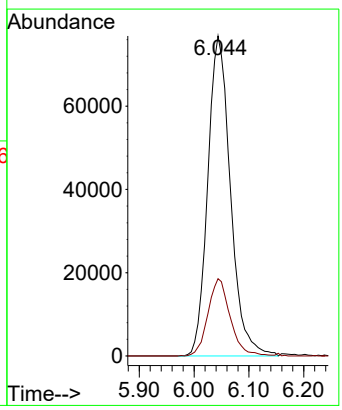


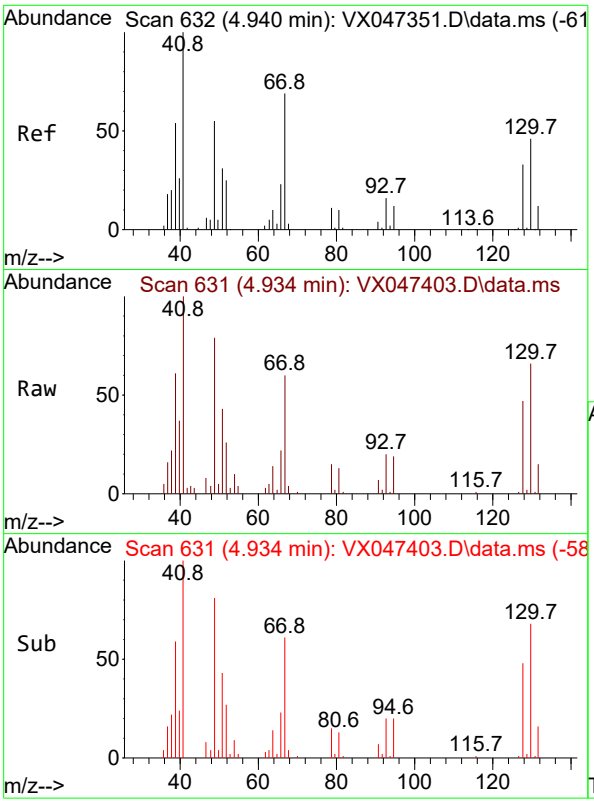


#40
Benzene
Concen: 17.957 ug/l
RT: 6.044 min Scan# 813
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 78 Resp: 220693

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.4



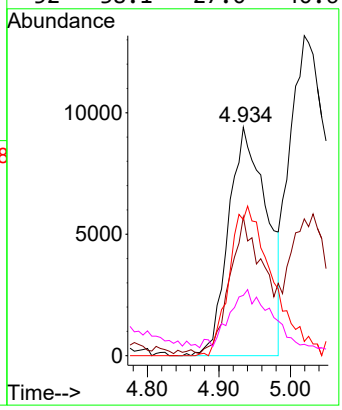


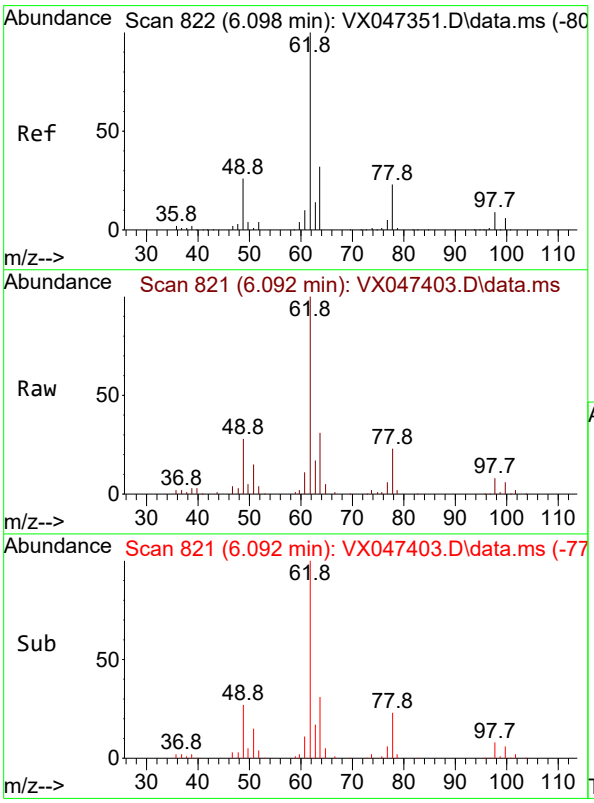
#41
Methacrylonitrile
Concen: 19.496 ug/l
RT: 4.934 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 41 Resp: 35045

Ion	Ratio	Lower	Upper
41	100		
39	51.1	45.4	68.2
67	73.4	64.0	96.0
52	38.1	27.0	40.6

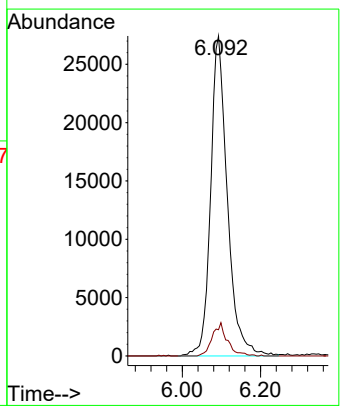


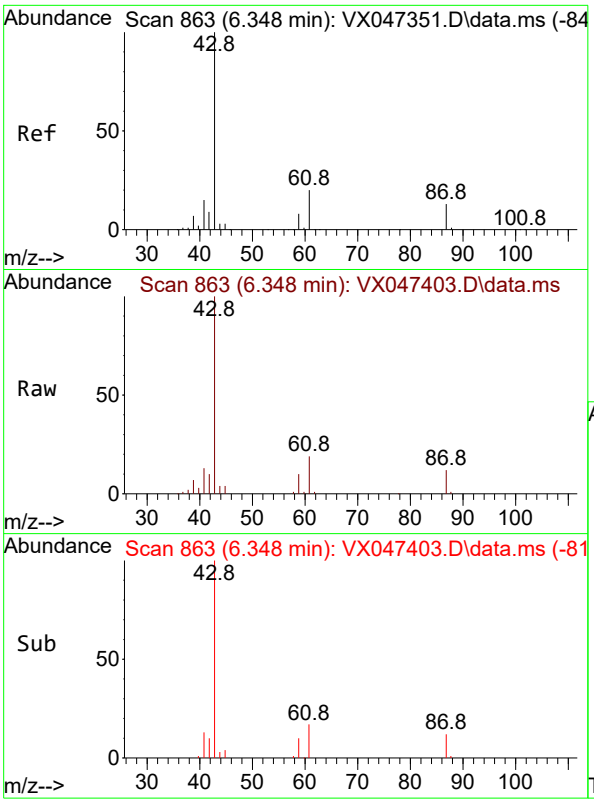


#42
1,2-Dichloroethane
Concen: 18.686 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 62 Resp: 81344

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.0



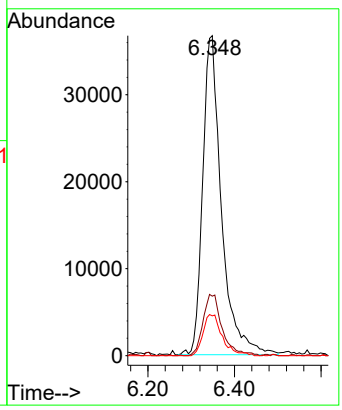


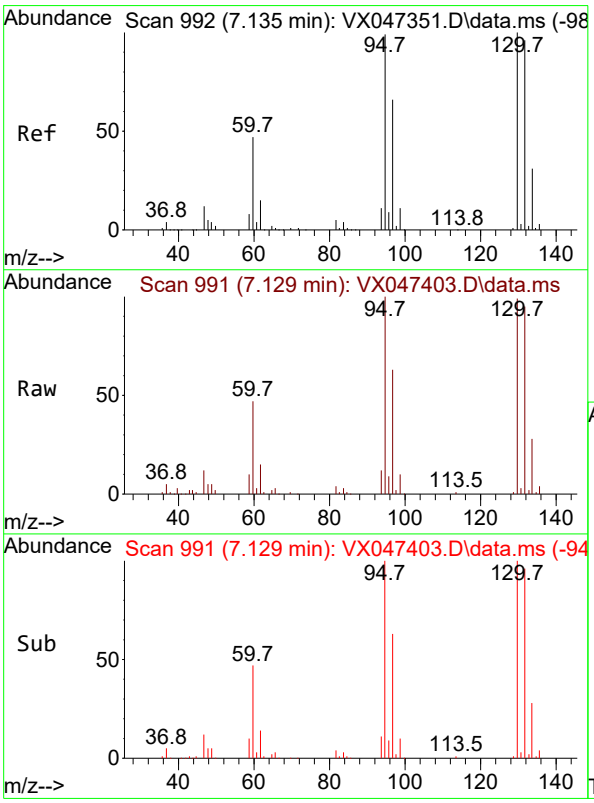
#43
Isopropyl Acetate
Concen: 18.037 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 43 Resp: 110451

Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.4	23.0
87	13.2	10.2	15.4

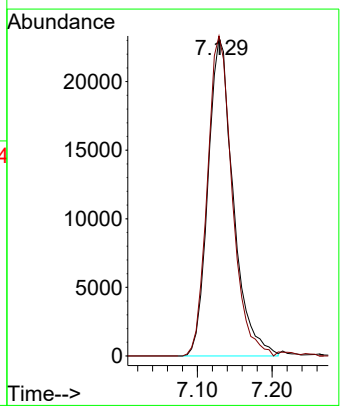


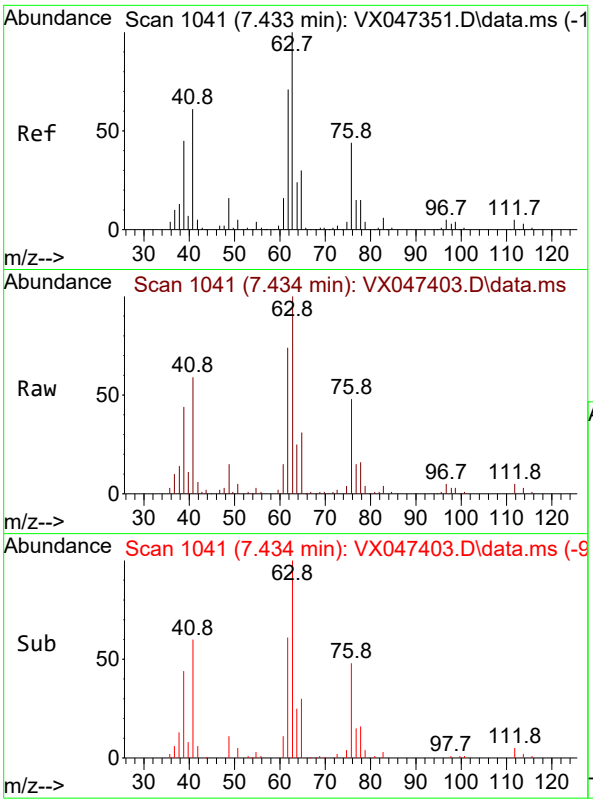


#44
Trichloroethene
Concen: 17.244 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:130 Resp: 54266

Ion	Ratio	Lower	Upper
130	100		
95	100.7	0.0	198.6



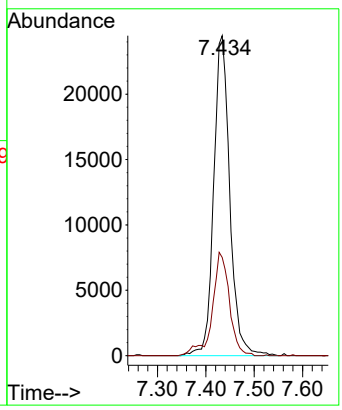


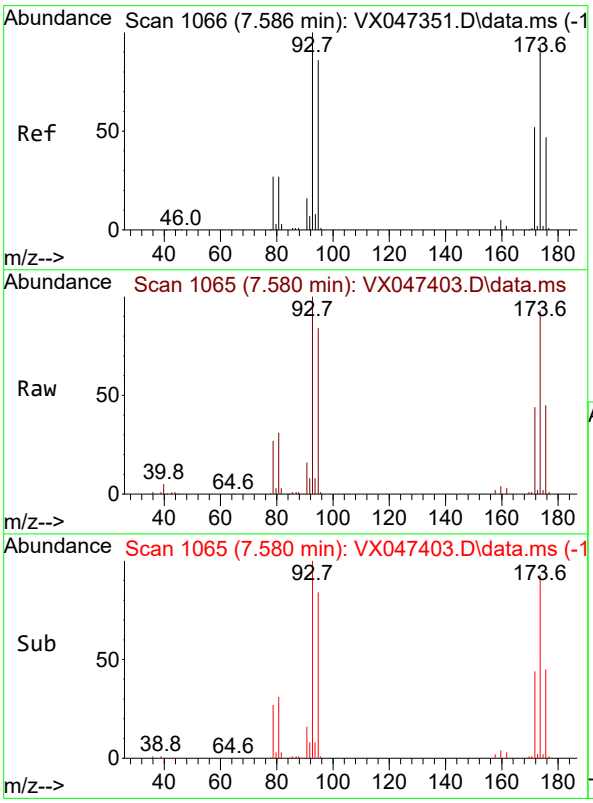
#45
1,2-Dichloropropane
Concen: 18.336 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 63 Resp: 56455

Ion	Ratio	Lower	Upper
63	100		
65	30.7	23.8	35.6

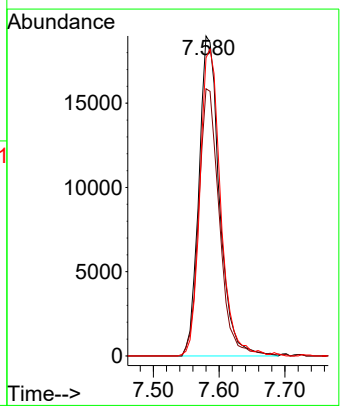


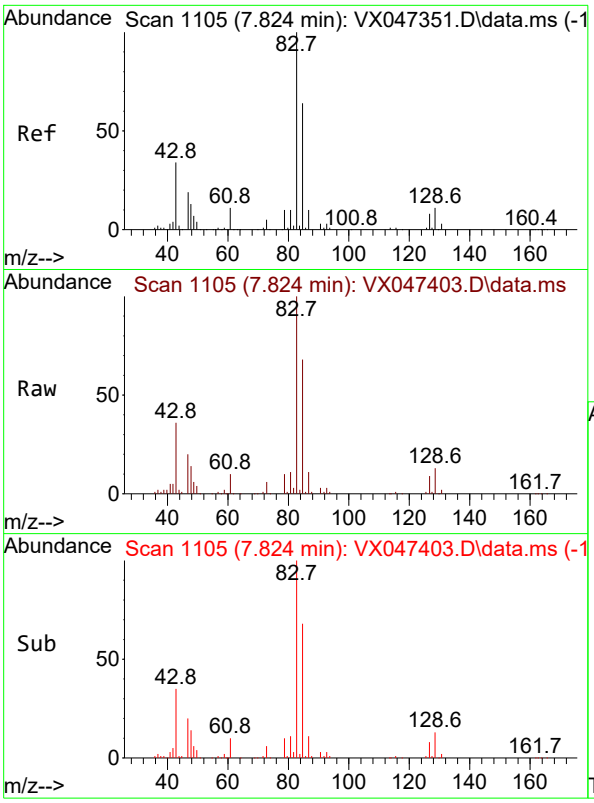


#46
Dibromomethane
Concen: 18.452 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 93 Resp: 41245

Ion	Ratio	Lower	Upper
93	100		
95	84.0	68.0	102.0
174	96.7	75.8	113.6



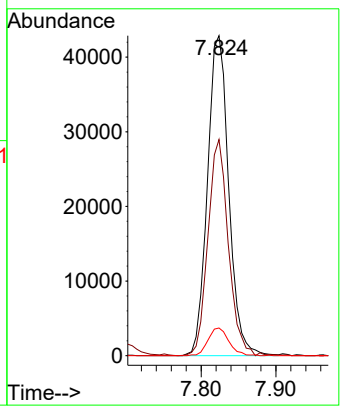


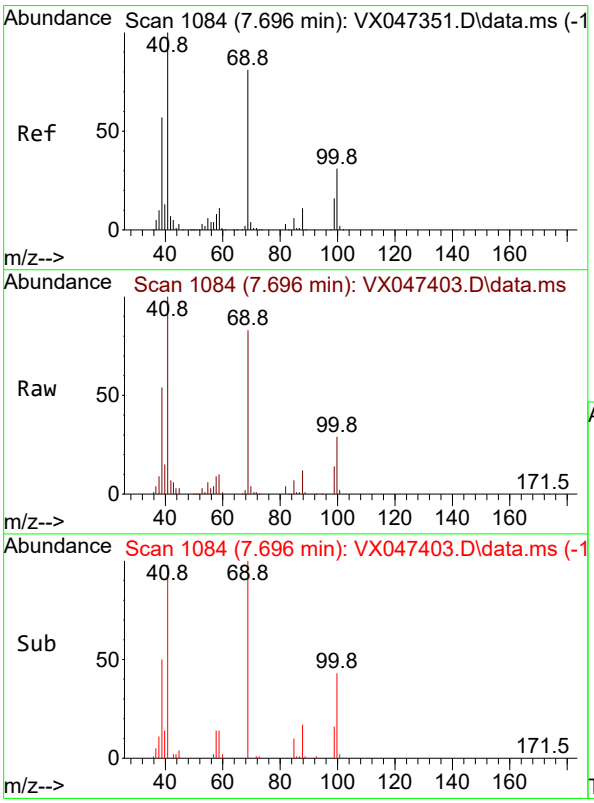
#47
Bromodichloromethane
Concen: 18.324 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 83 Resp: 84911

Ion	Ratio	Lower	Upper
83	100		
85	67.6	51.0	76.6
127	9.6	7.0	10.4

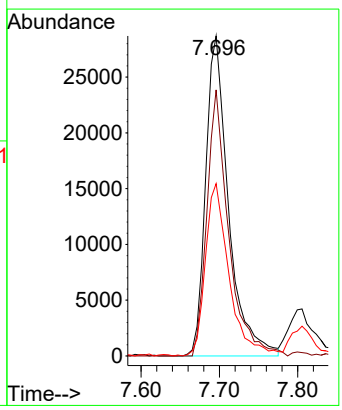


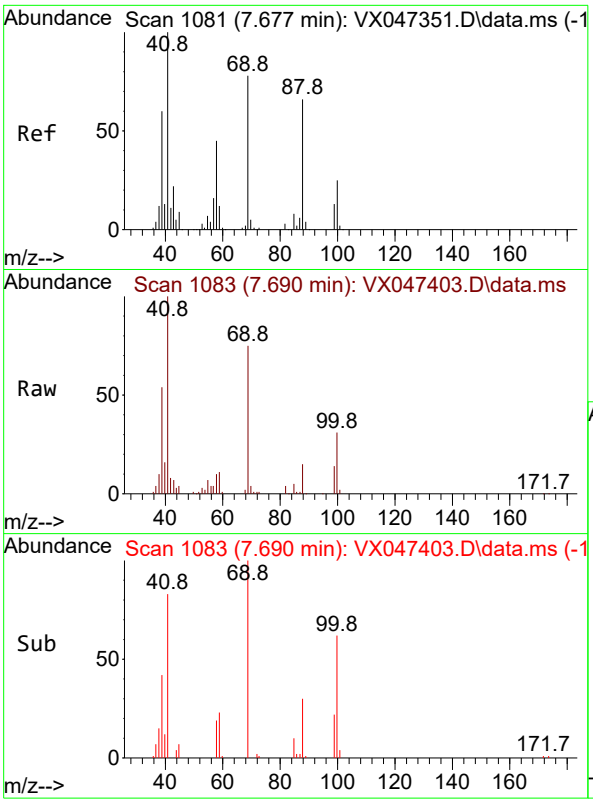


#48
Methyl methacrylate
Concen: 18.294 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 41 Resp: 58149

Ion	Ratio	Lower	Upper
41	100		
69	79.1	65.0	97.4
39	55.7	45.7	68.5



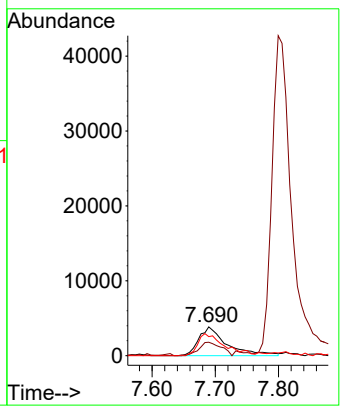


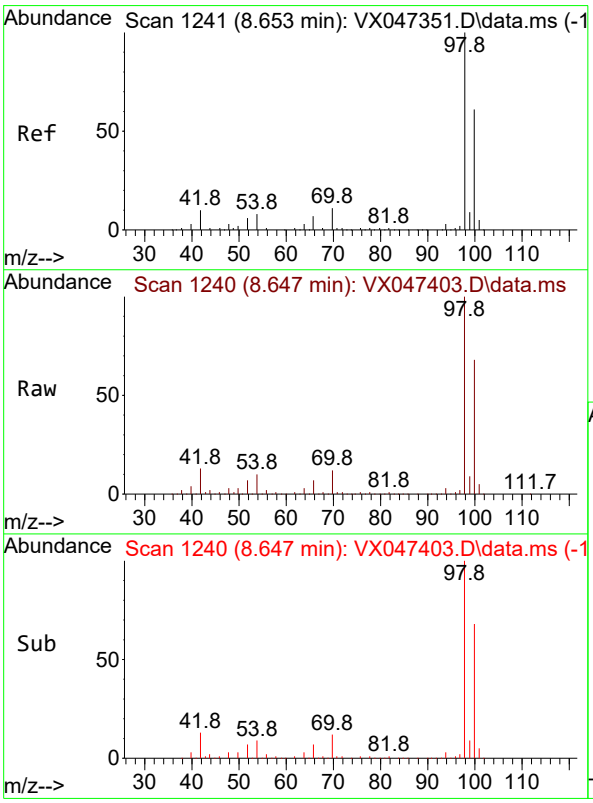
#49
1,4-Dioxane
Concen: 385.469 ug/l
RT: 7.690 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 88 Resp: 11911

Ion	Ratio	Lower	Upper
88	100		
43	36.9	32.4	48.6
58	71.5	56.9	85.3

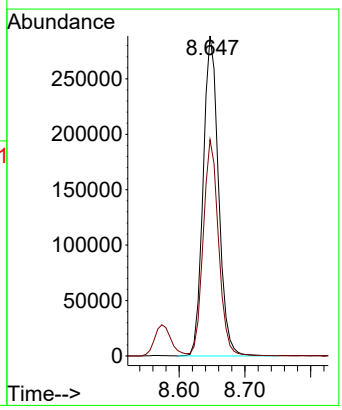


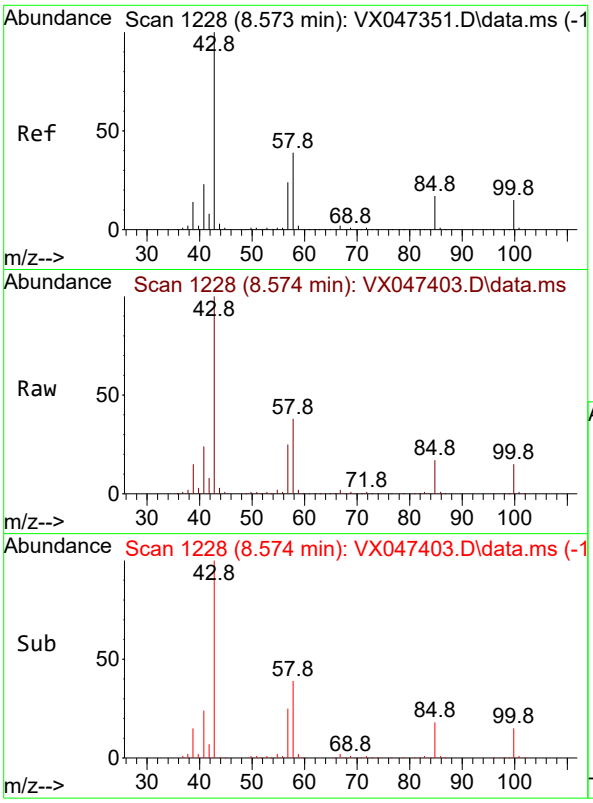


#50
Toluene-d8
Concen: 50.555 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 98 Resp: 470012

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.9	80.9



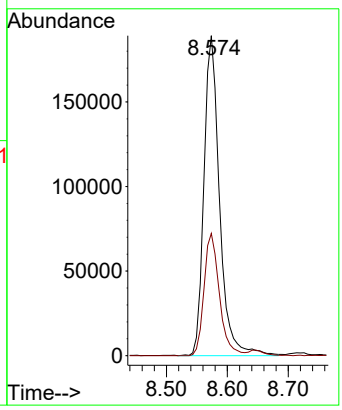


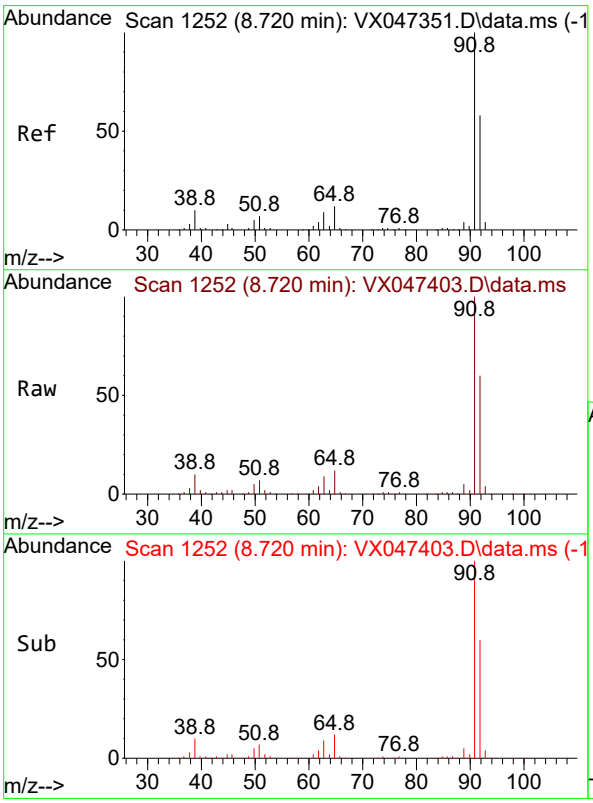
#51
4-Methyl-2-Pentanone
Concen: 95.733 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 43 Resp: 337359

Ion	Ratio	Lower	Upper
43	100		
58	37.6	31.2	46.8

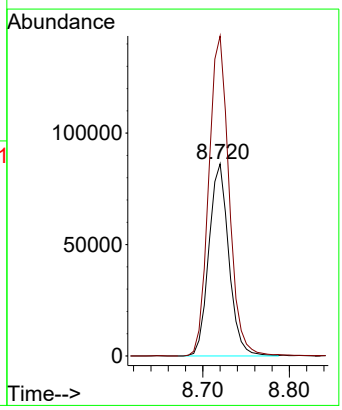


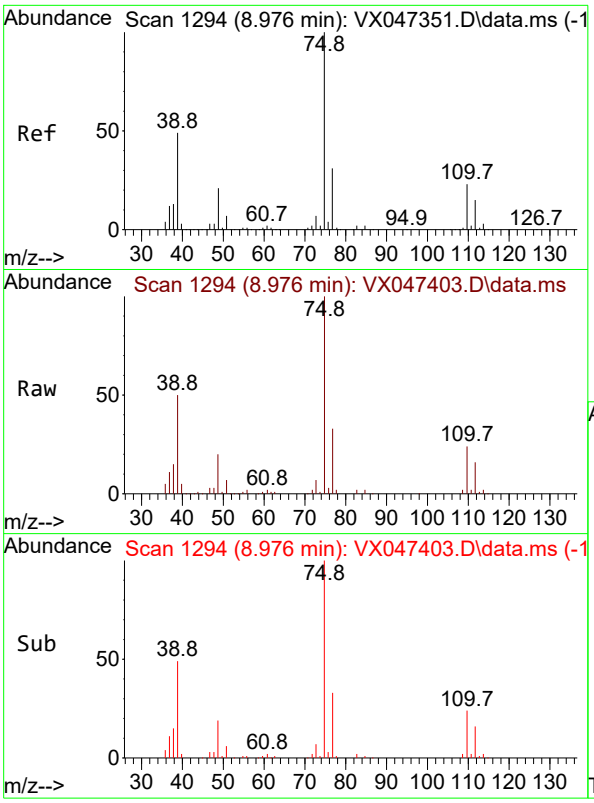


#52
Toluene
Concen: 18.121 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 92 Resp: 137617

Ion	Ratio	Lower	Upper
92	100		
91	170.4	136.3	204.5



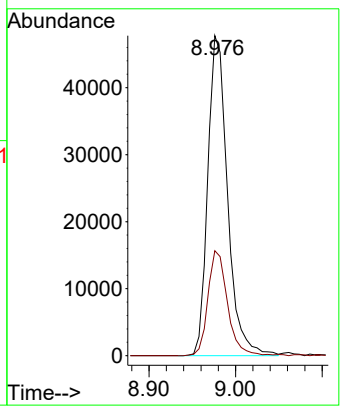


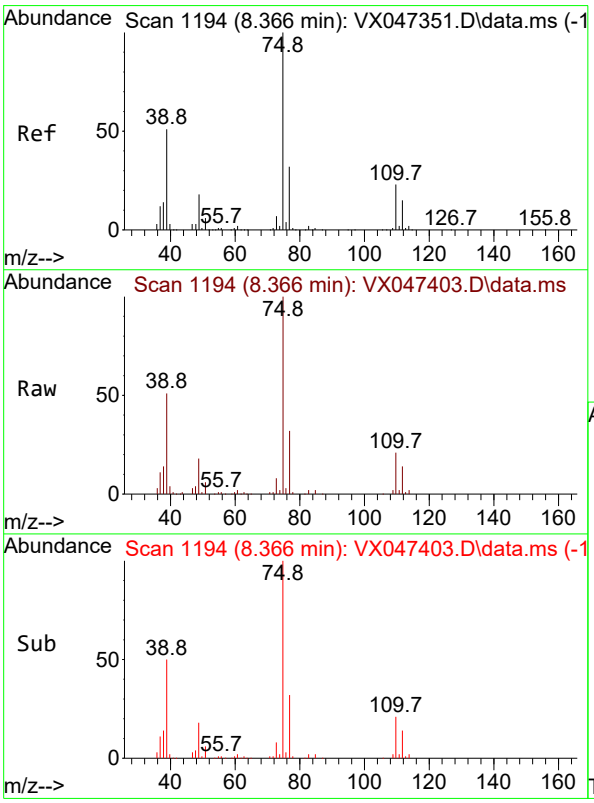
#53
t-1,3-Dichloropropene
Concen: 18.711 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 75 Resp: 75672

Ion	Ratio	Lower	Upper
75	100		
77	32.8	24.7	37.1

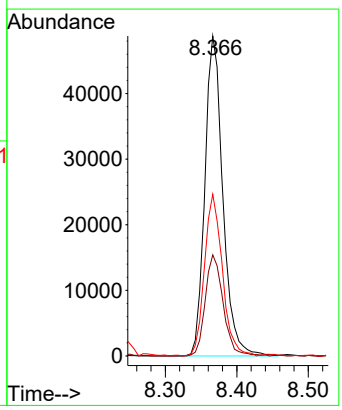


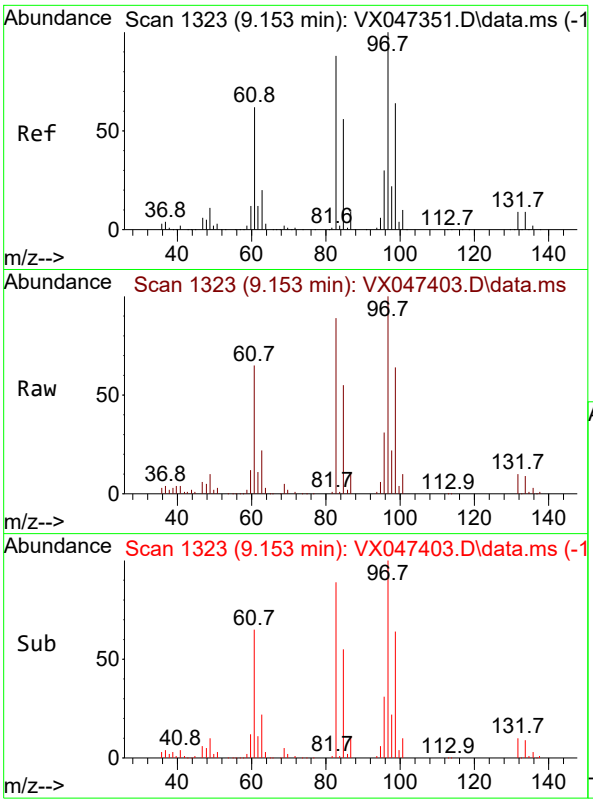


#54
cis-1,3-Dichloropropene
Concen: 18.637 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 75 Resp: 85316

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4
39	50.3	40.9	61.3



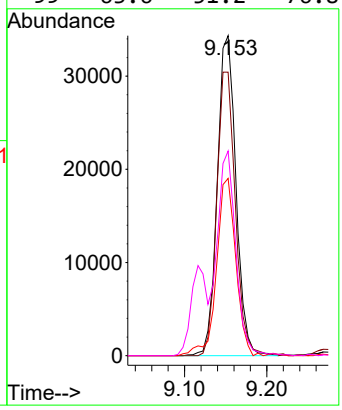


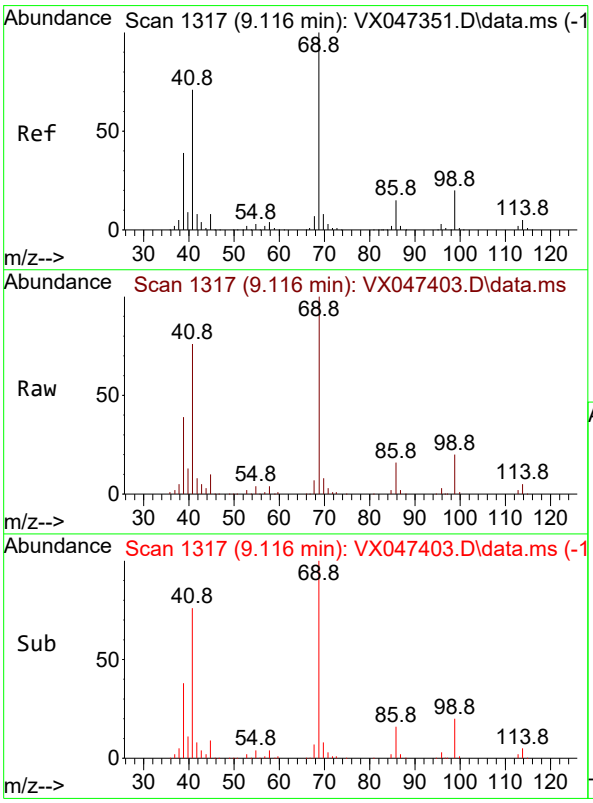
#55
1,1,2-Trichloroethane
Concen: 18.834 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 97 Resp: 54306

Ion	Ratio	Lower	Upper
97	100		
83	88.6	70.6	106.0
85	55.4	44.7	67.1
99	63.6	51.2	76.8

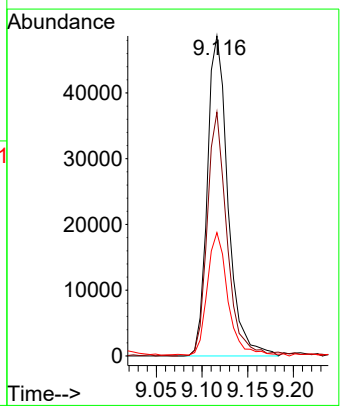


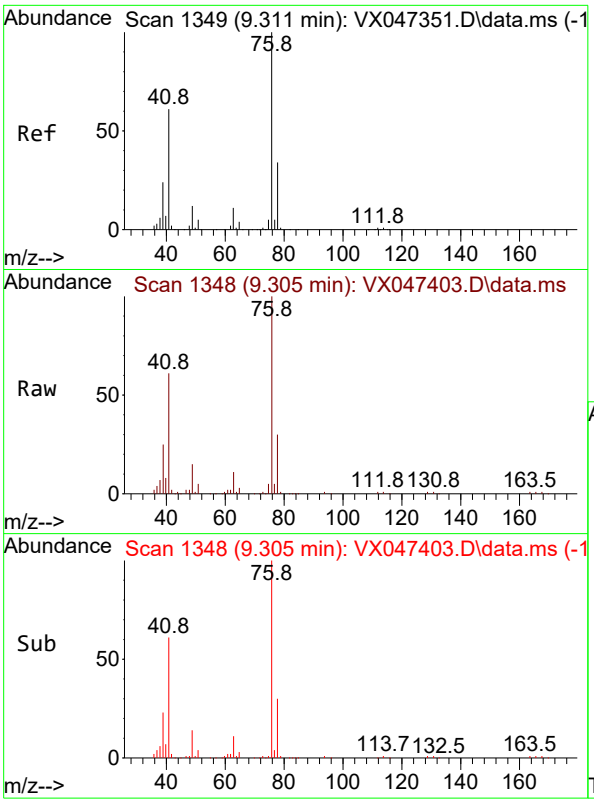


#56
Ethyl methacrylate
Concen: 17.930 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 69 Resp: 76225

Ion	Ratio	Lower	Upper
69	100		
41	72.6	55.3	82.9
39	39.3	30.2	45.2



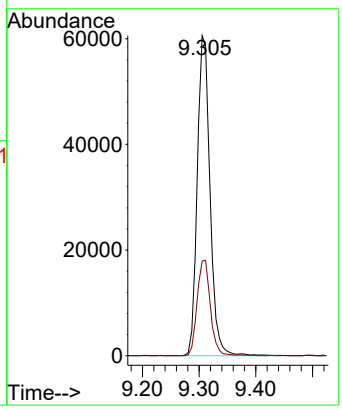


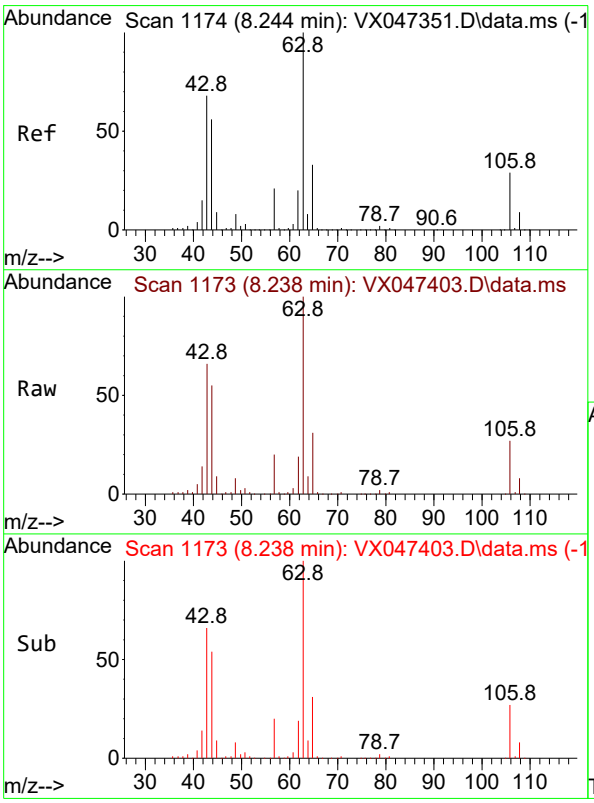
#57
1,3-Dichloropropane
Concen: 19.235 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 76 Resp: 94506

Ion	Ratio	Lower	Upper
76	100		
78	30.9	26.2	39.2

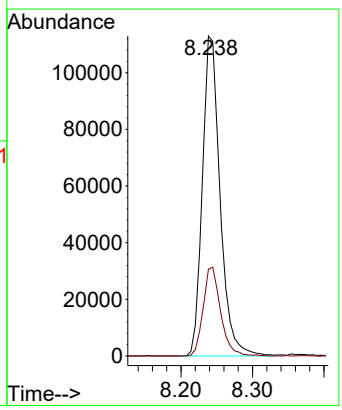


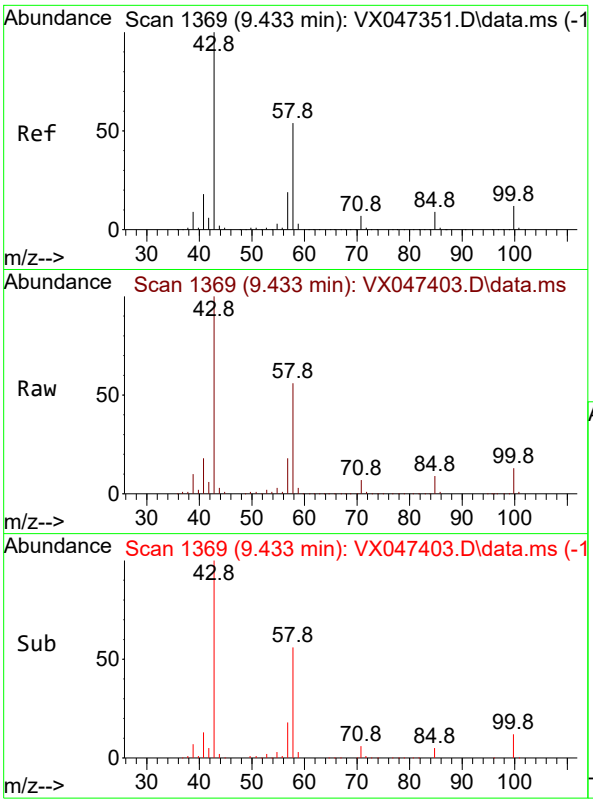


#58
2-Chloroethyl Vinyl ether
Concen: 100.929 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 63 Resp: 194420

Ion	Ratio	Lower	Upper
63	100		
106	27.3	22.8	34.2



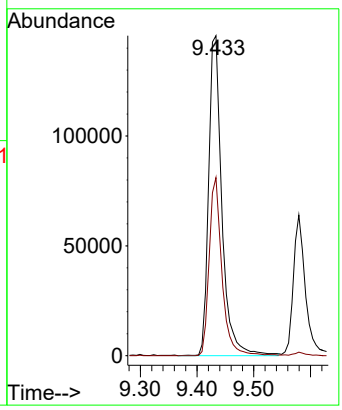


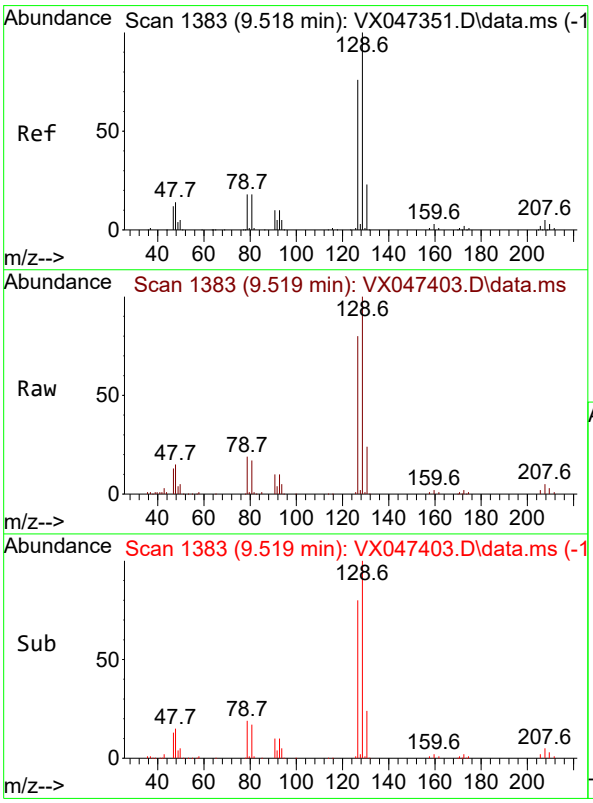
#59
2-Hexanone
Concen: 97.292 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 43 Resp: 237159

Ion	Ratio	Lower	Upper
43	100		
58	53.6	26.9	80.7

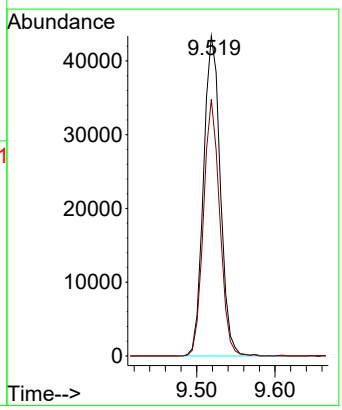


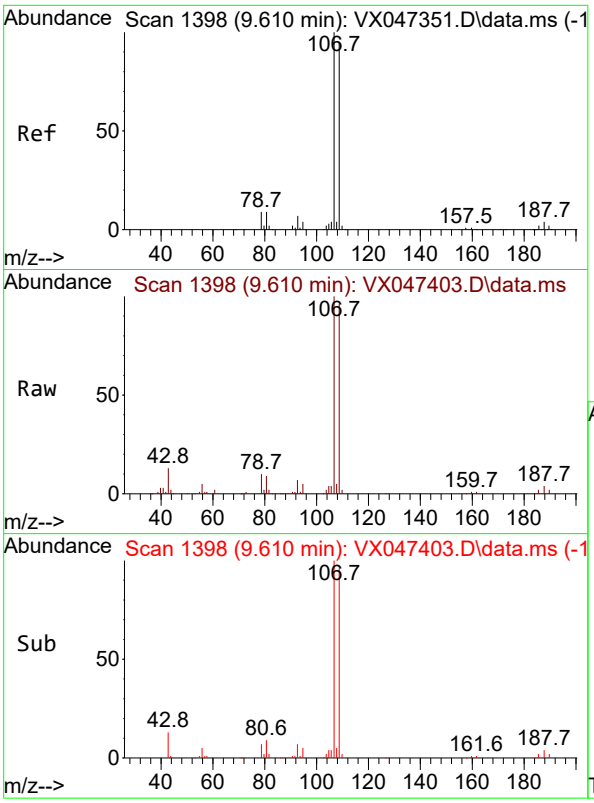


#60
Dibromochloromethane
Concen: 18.814 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:129 Resp: 64471

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.9	116.6



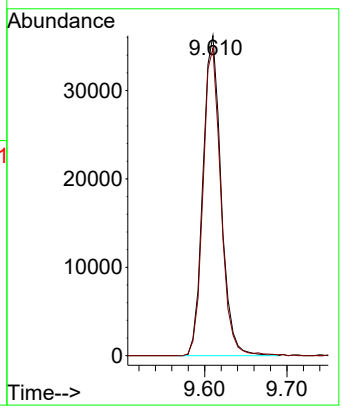


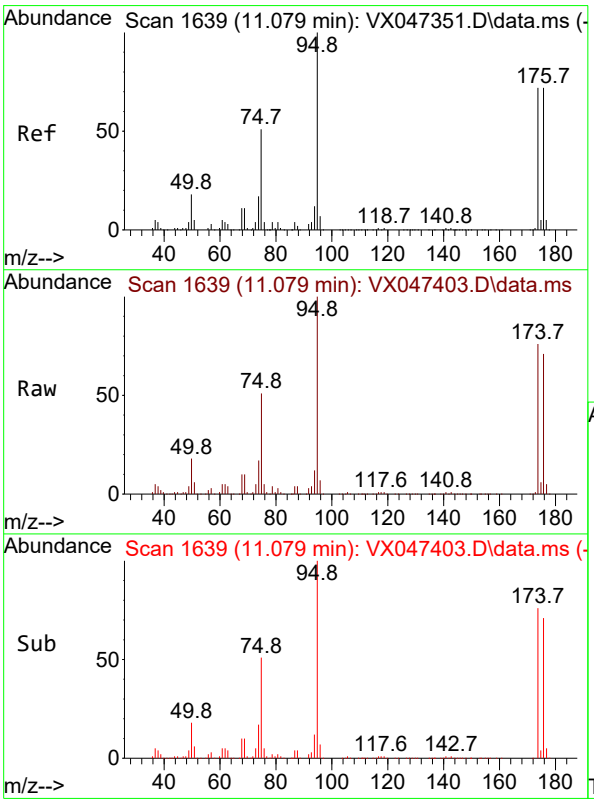
#61
1,2-Dibromoethane
Concen: 18.705 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:107 Resp: 55618

Ion	Ratio	Lower	Upper
107	100		
109	94.5	76.2	114.2

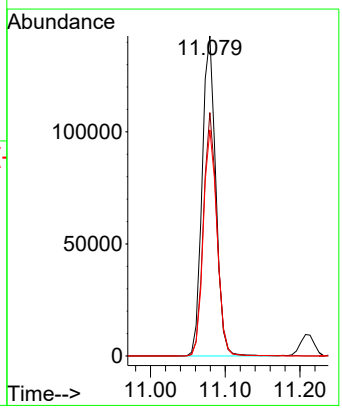


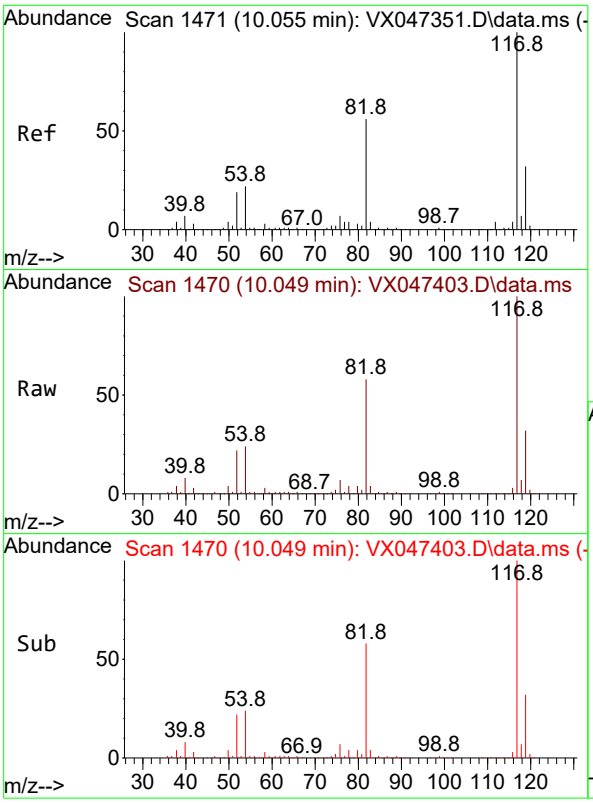


#62
4-Bromofluorobenzene
Concen: 52.762 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 95 Resp: 181013

Ion	Ratio	Lower	Upper
95	100		
174	74.6	0.0	148.0
176	71.1	0.0	145.4



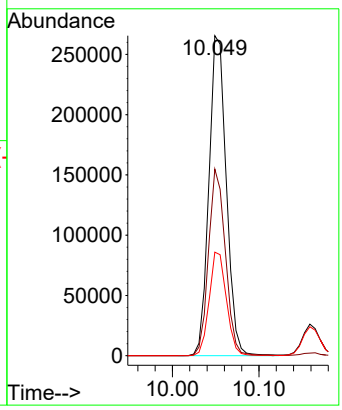


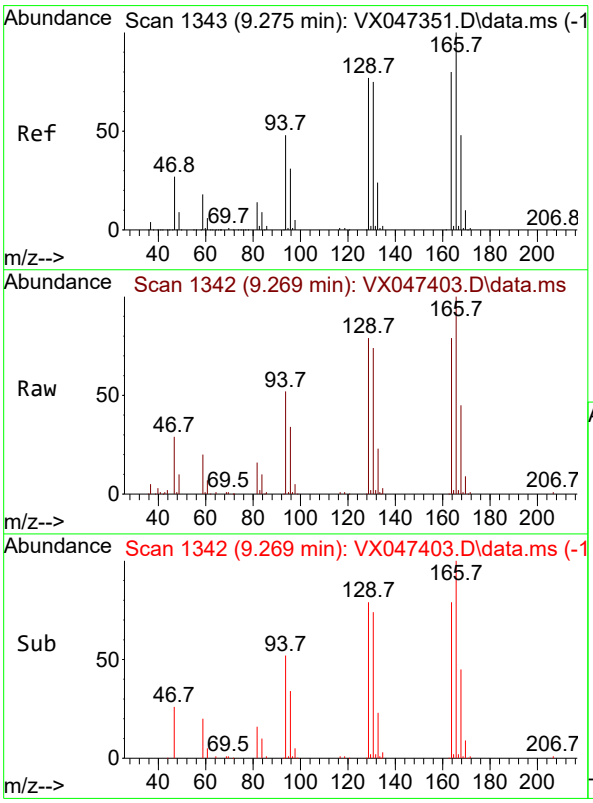
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:117 Resp: 370967

Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.0	67.4
119	32.4	25.8	38.8

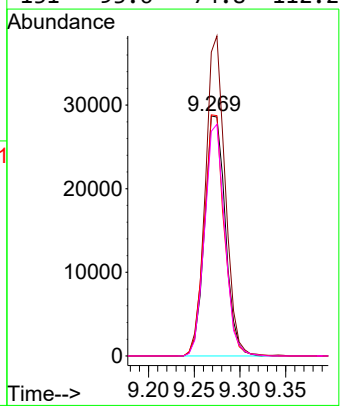


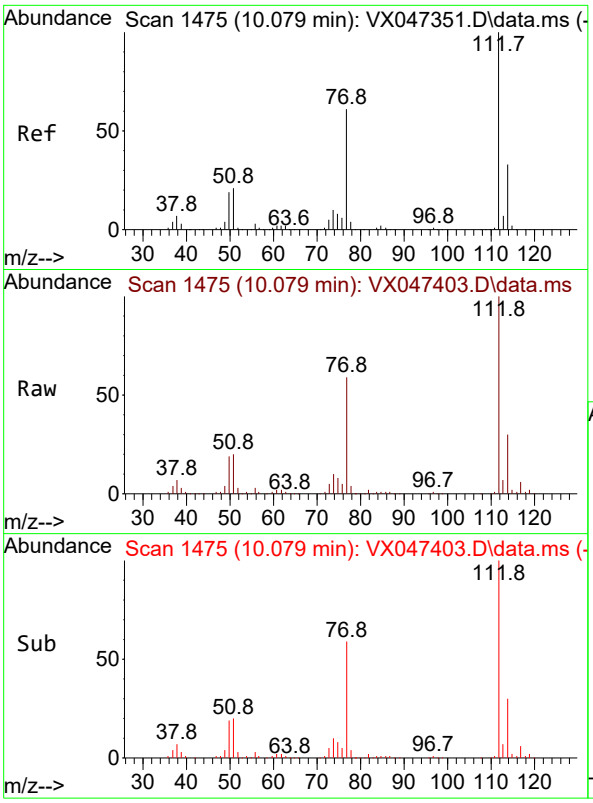


#64
Tetrachloroethene
Concen: 16.708 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:164 Resp: 44832

Ion	Ratio	Lower	Upper
164	100		
166	126.6	100.3	150.5
129	100.5	77.7	116.5
131	93.6	74.8	112.2



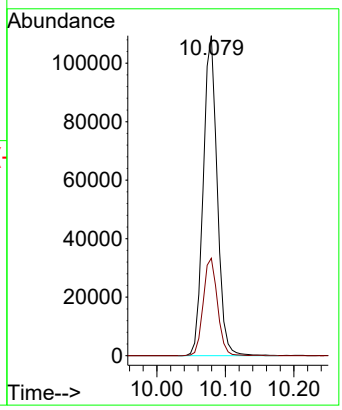


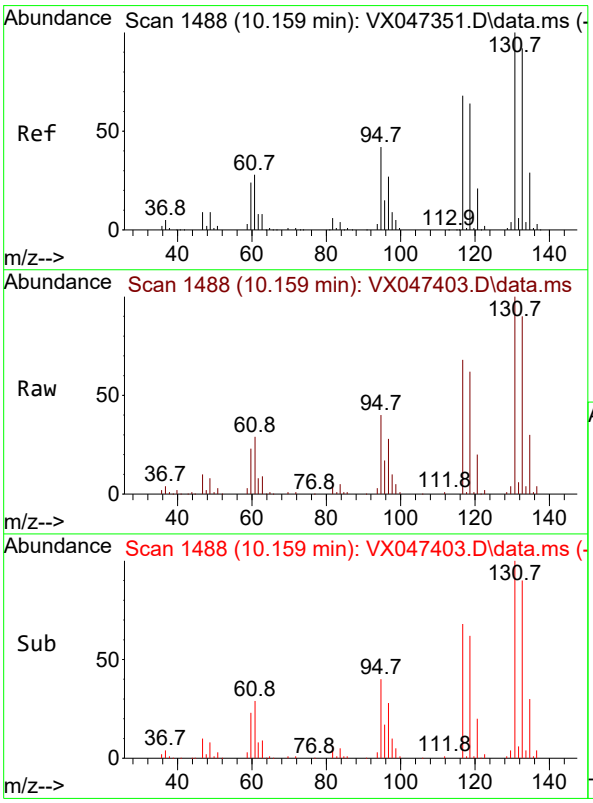
#65
Chlorobenzene
Concen: 17.585 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:112 Resp: 155025

Ion	Ratio	Lower	Upper
112	100		
114	30.5	26.4	39.6

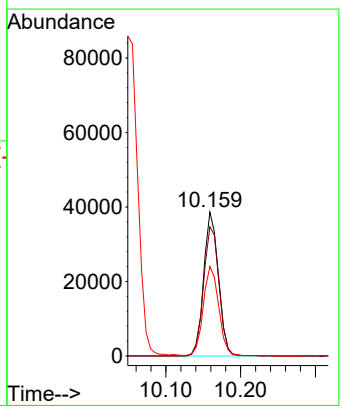


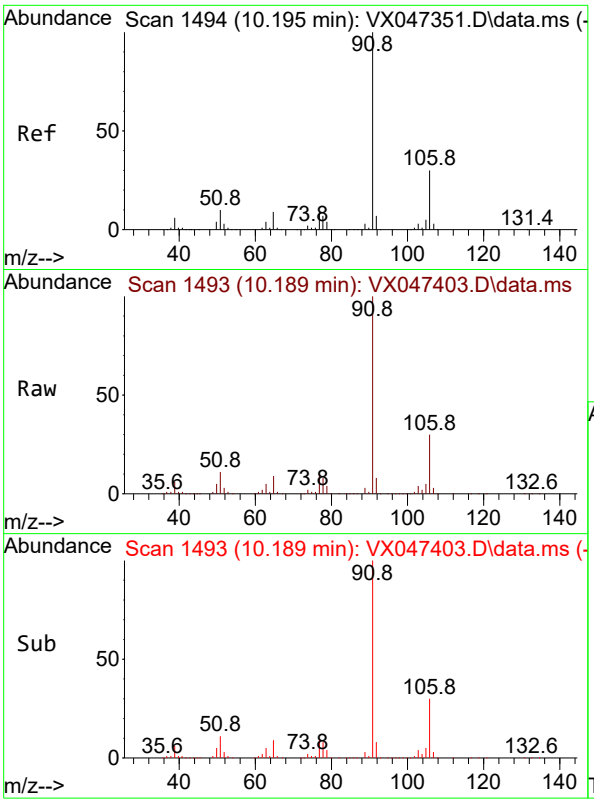


#66
1,1,1,2-Tetrachloroethane
Concen: 17.822 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:131 Resp: 53110

Ion	Ratio	Lower	Upper
131	100		
133	93.3	47.6	142.9
119	65.0	32.3	96.8



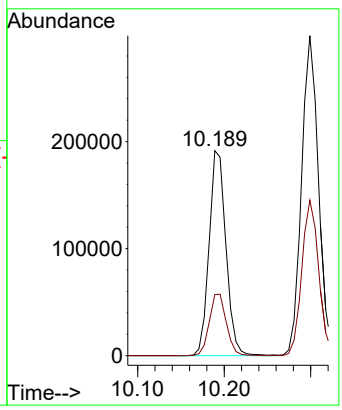


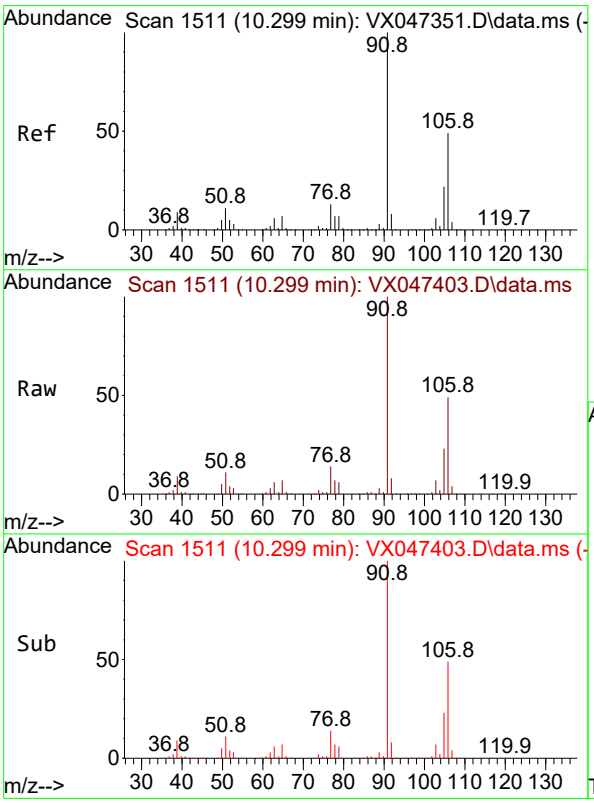
#67
Ethyl Benzene
Concen: 17.094 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 91 Resp: 259370

Ion	Ratio	Lower	Upper
91	100		
106	29.8	24.4	36.6

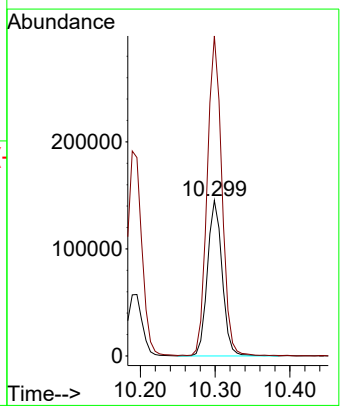


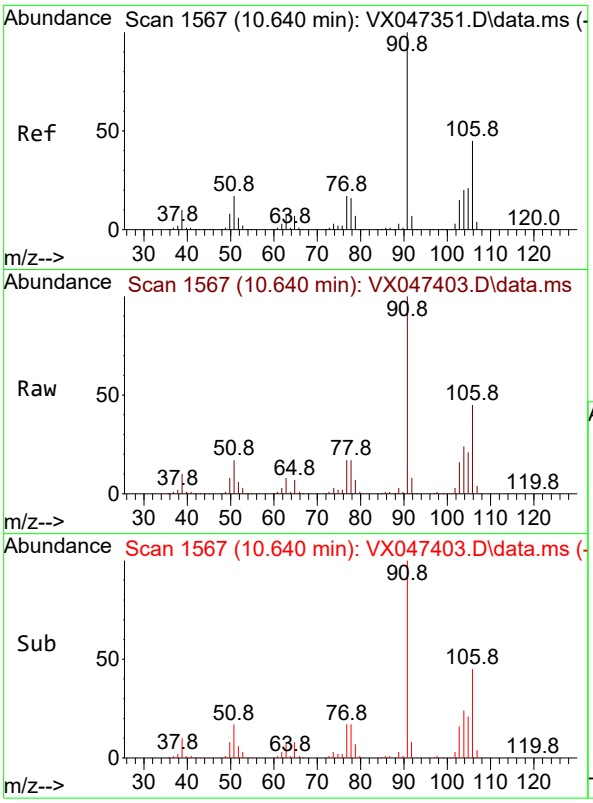


#68
m/p-Xylenes
Concen: 35.129 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:106 Resp: 198745

Ion	Ratio	Lower	Upper
106	100		
91	205.9	164.7	247.1



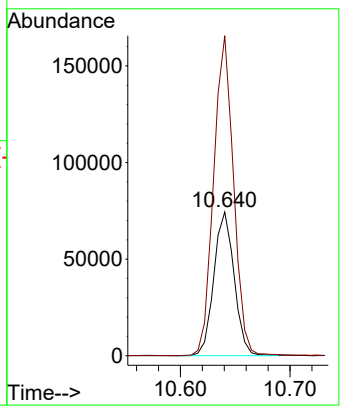


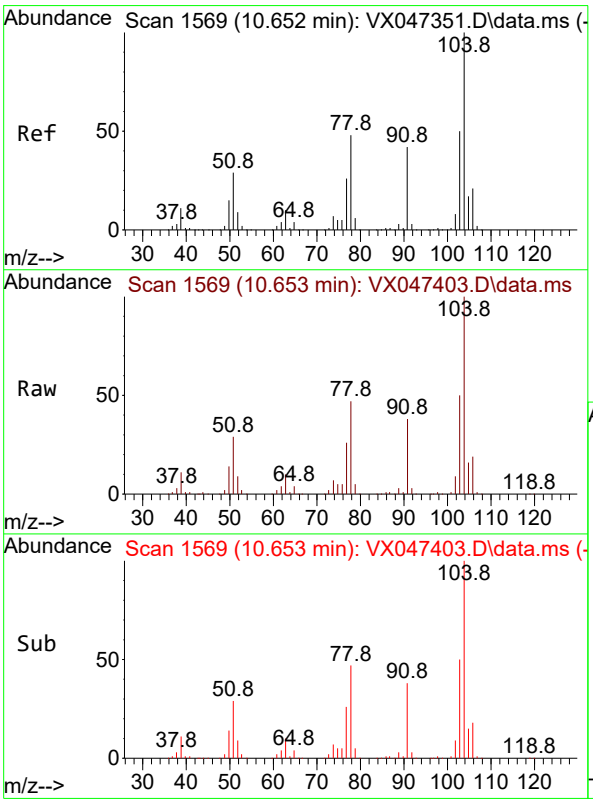
#69
o-Xylene
Concen: 17.591 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:106 Resp: 95777

Ion	Ratio	Lower	Upper
106	100		
91	219.2	110.6	331.8

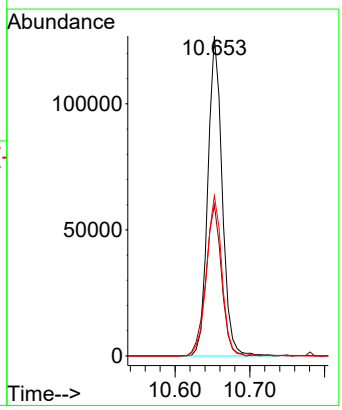


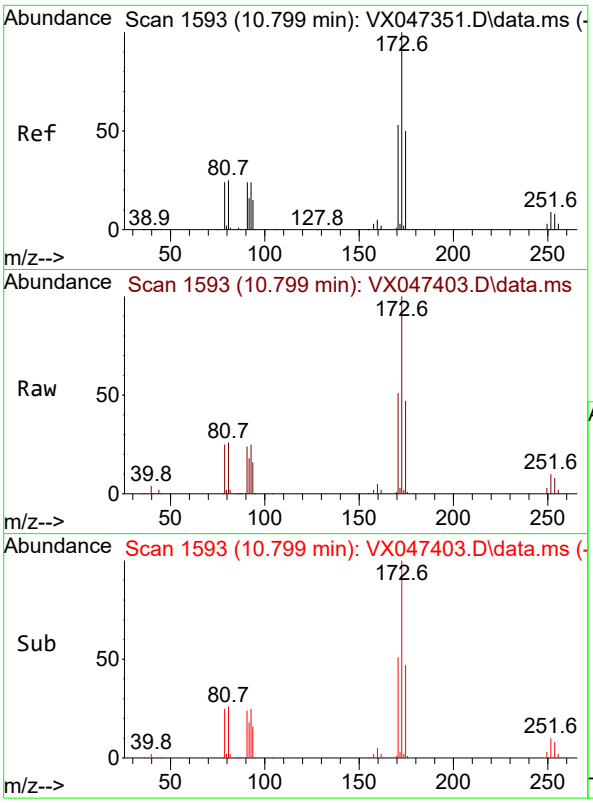


#70
Styrene
Concen: 18.349 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:104 Resp: 168799

Ion	Ratio	Lower	Upper
104	100		
78	51.9	41.8	62.8
103	53.8	43.6	65.4



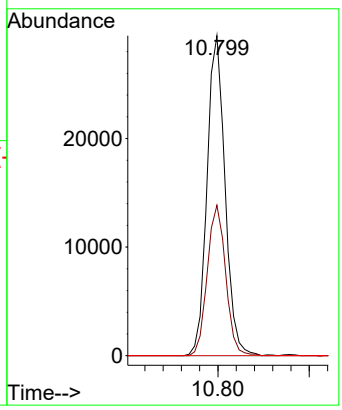


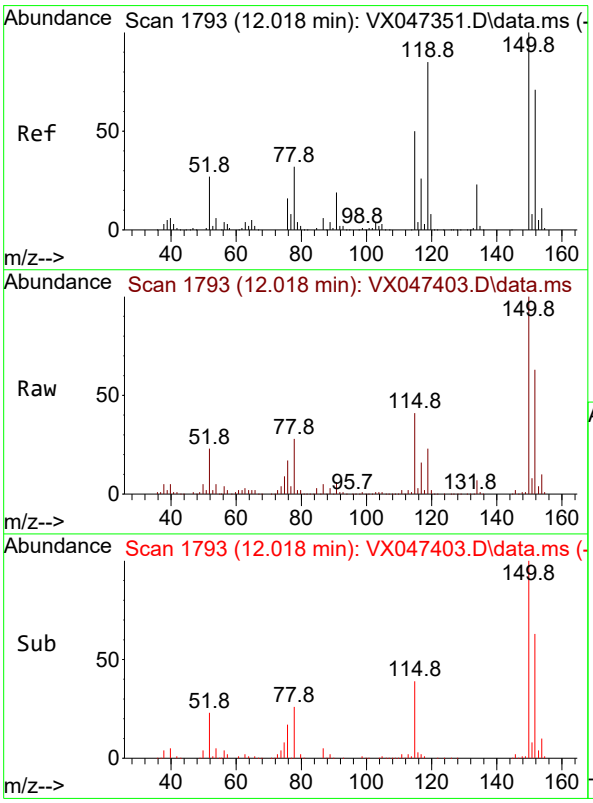
#71
Bromoform
Concen: 17.946 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:173 Resp: 40177

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.4	73.4
254	0.0	0.1	0.1#

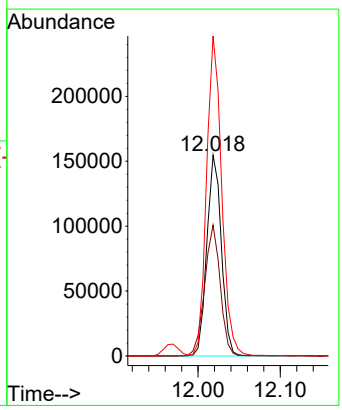


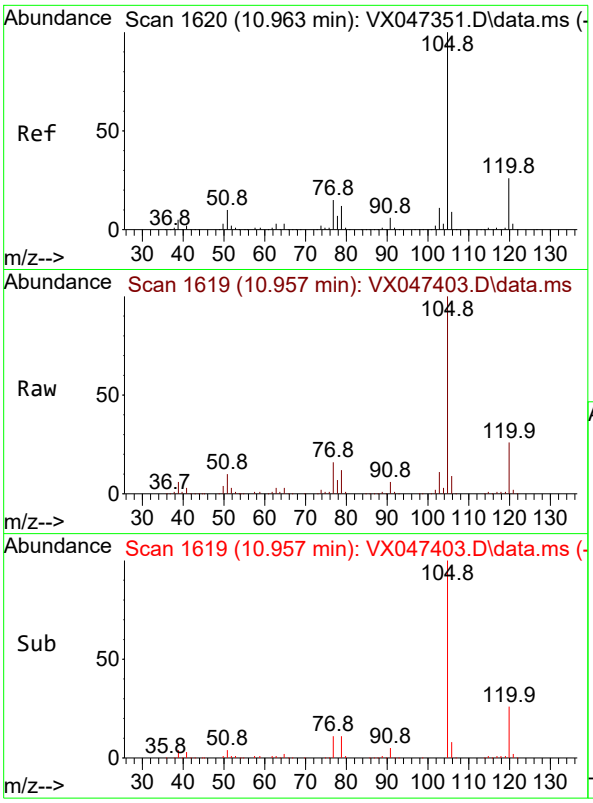


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:152 Resp: 189862

Ion	Ratio	Lower	Upper
152	100		
115	69.8	44.6	133.8
150	165.4	0.0	349.8



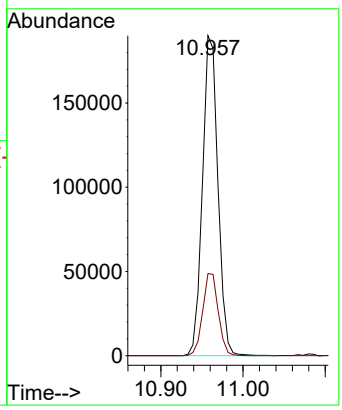


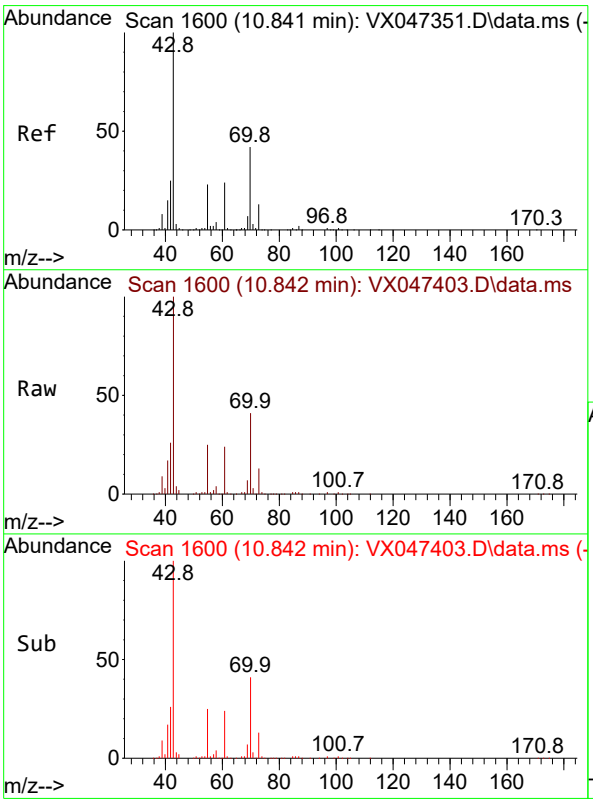
#73
Isopropylbenzene
Concen: 16.649 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:105 Resp: 247370

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.9	38.6

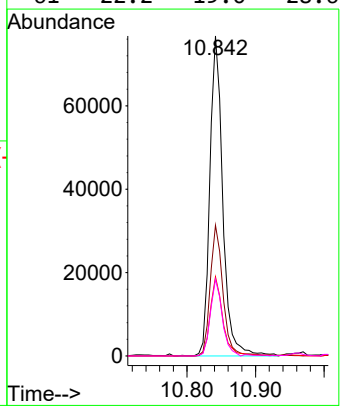


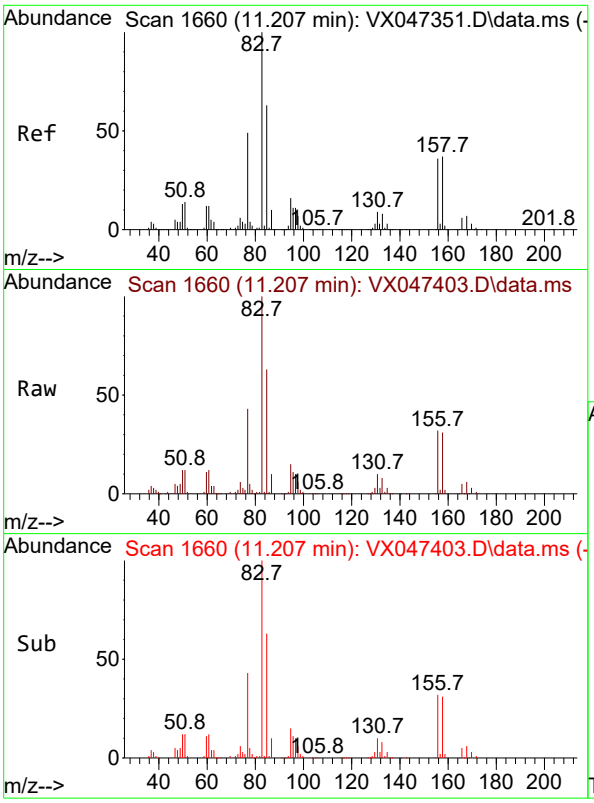


#74
N-amyl acetate
Concen: 17.893 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 100954

Ion	Ratio	Lower	Upper
43	100		
70	40.0	33.1	49.7
55	24.3	19.0	28.6
61	22.2	19.0	28.6



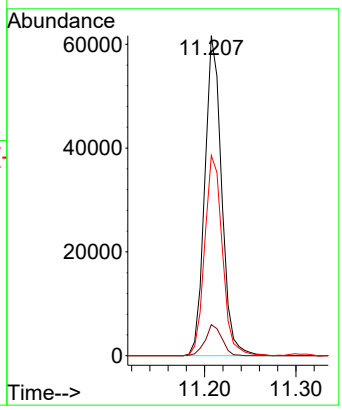


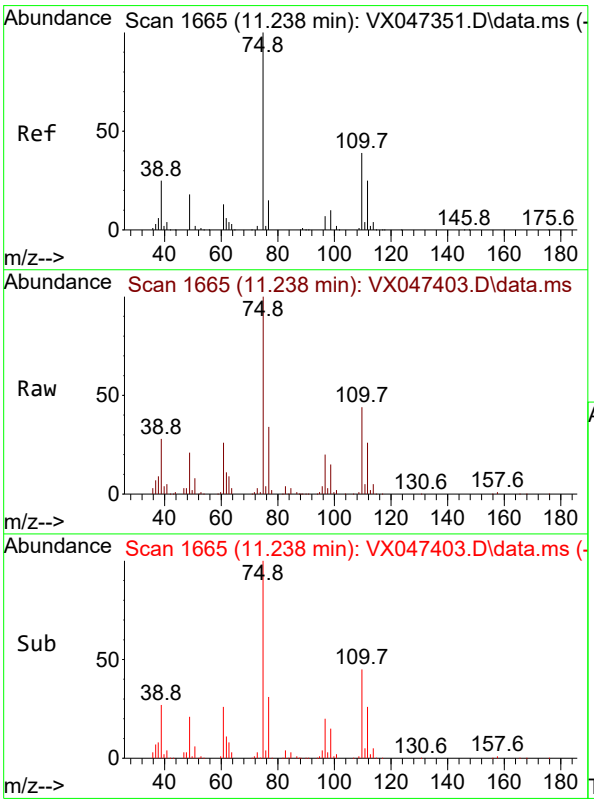
#75
1,1,2,2-Tetrachloroethane
Concen: 18.037 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 83 Resp: 78682

Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.0	15.0
85	65.6	31.7	95.1

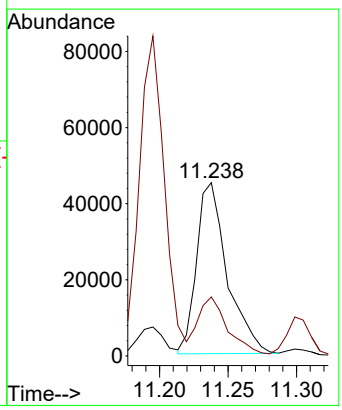


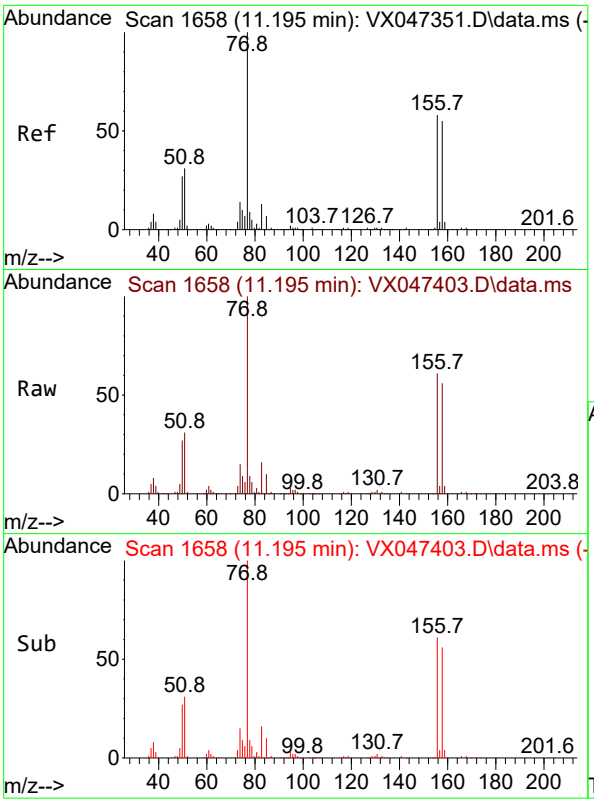


#76
1,2,3-Trichloropropane
Concen: 20.057 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 75 Resp: 69843

Ion	Ratio	Lower	Upper
75	100		
77	34.0	19.4	58.2



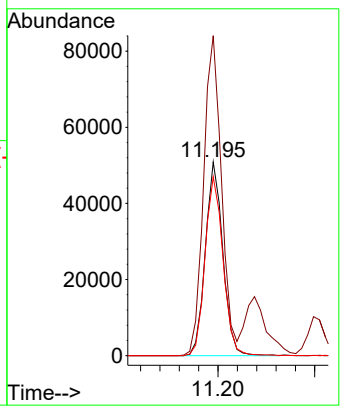


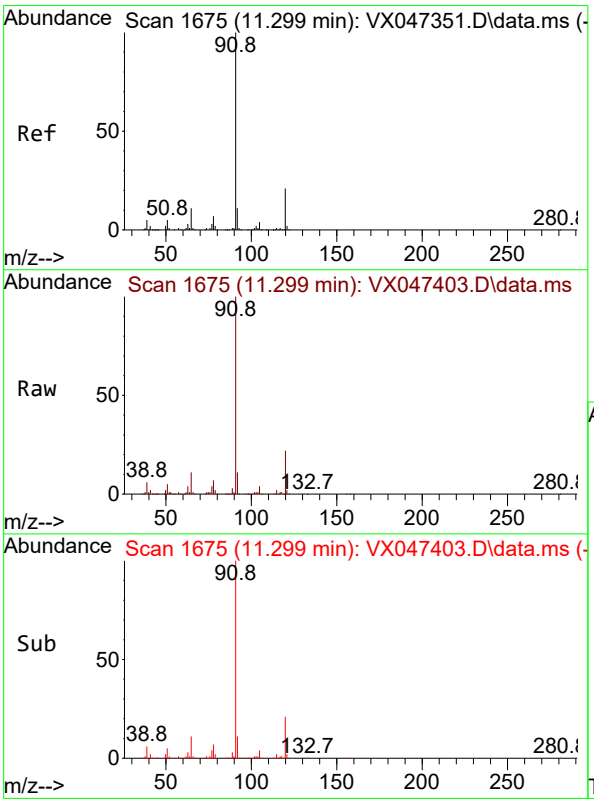
#77
Bromobenzene
Concen: 17.636 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:156 Resp: 63986

Ion	Ratio	Lower	Upper
156	100		
77	168.8	86.3	258.9
158	95.4	48.0	144.2

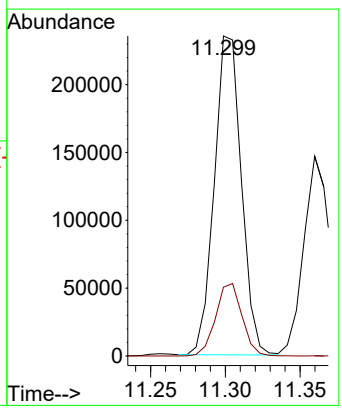


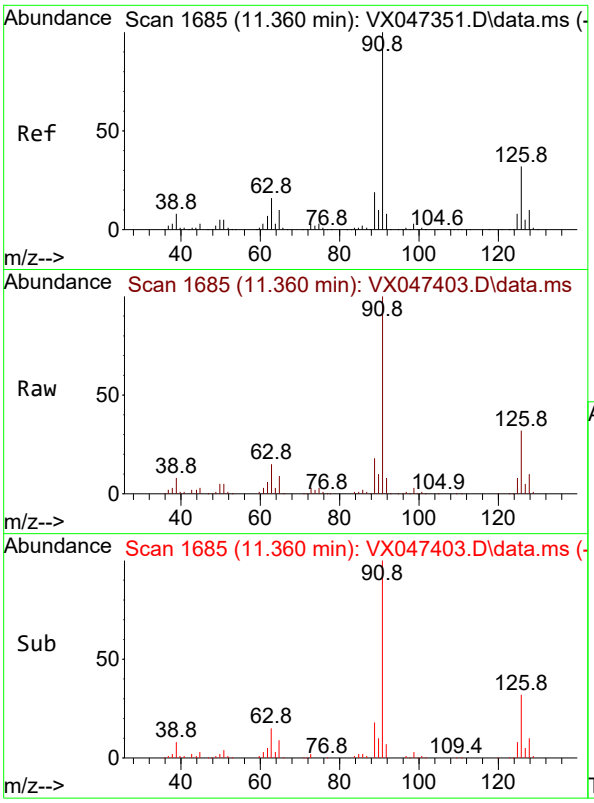


#78
n-propylbenzene
Concen: 16.657 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 91 Resp: 295566

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0



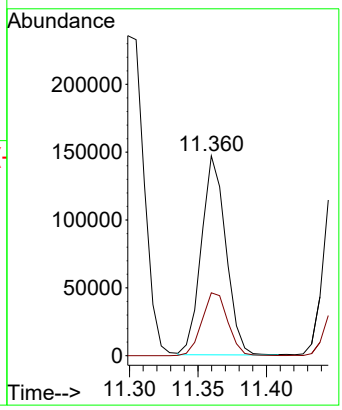


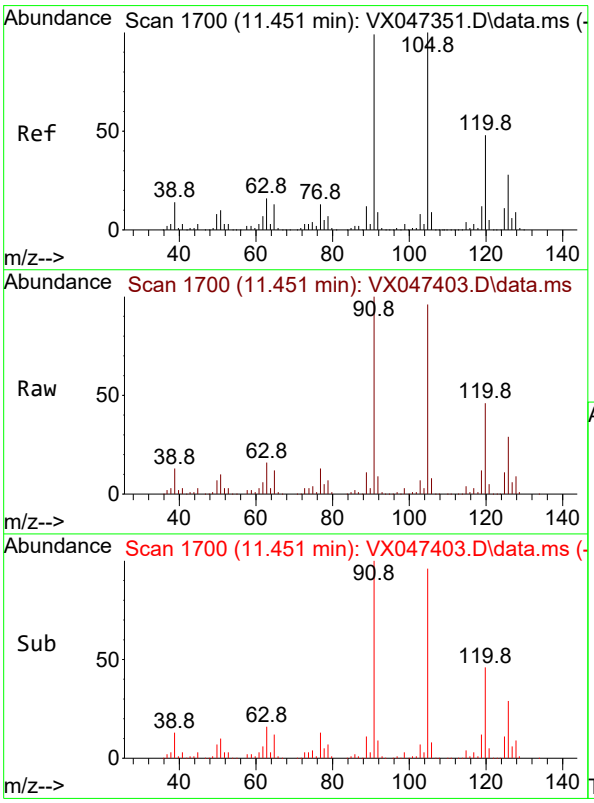
#79
2-Chlorotoluene
Concen: 17.013 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 91 Resp: 182492

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.7	50.1

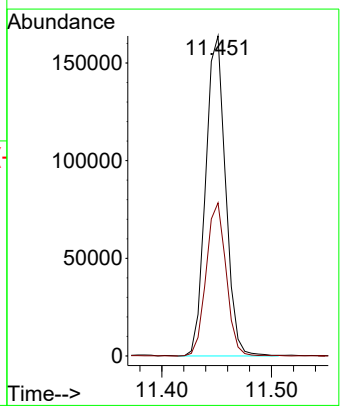


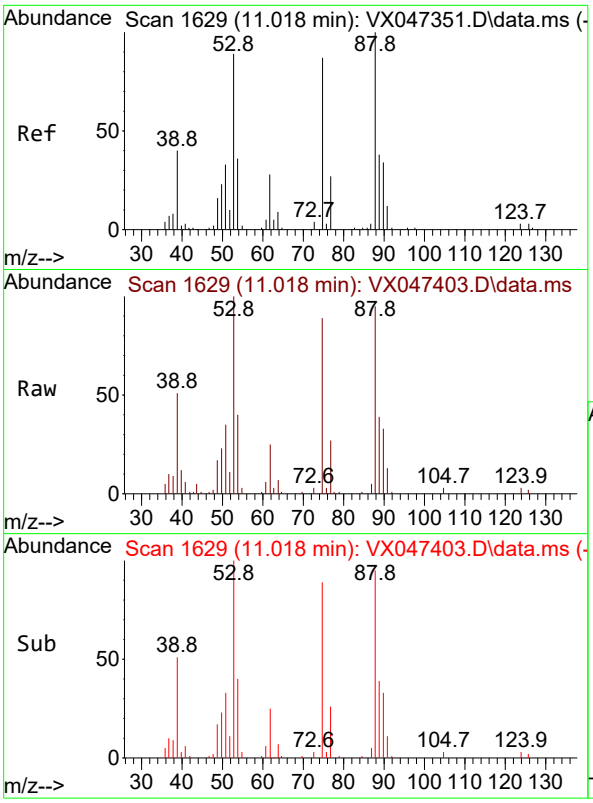


#80
1,3,5-Trimethylbenzene
Concen: 16.900 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:105 Resp: 206597

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.9	71.7



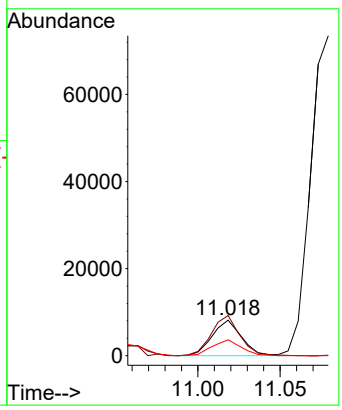


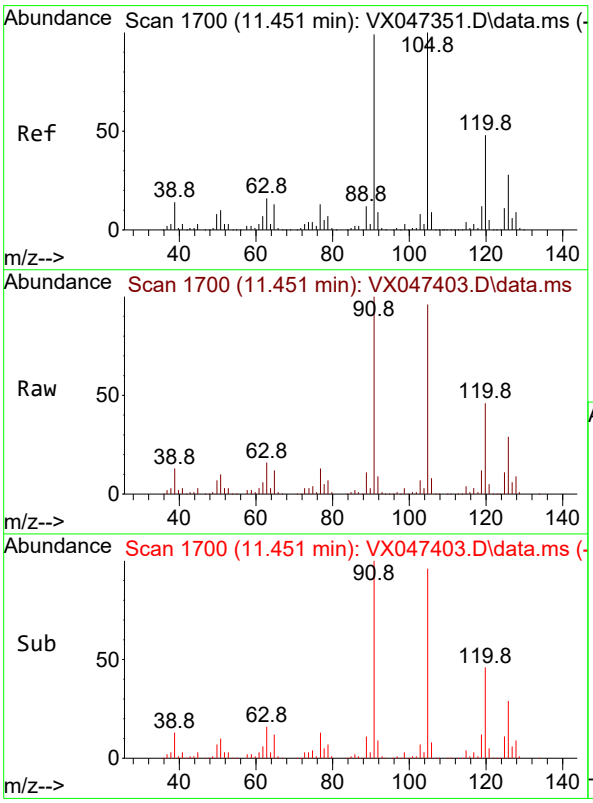
#81
trans-1,4-Dichloro-2-butene
Concen: 18.529 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 75 Resp: 10138

Ion	Ratio	Lower	Upper
75	100		
53	109.6	85.2	127.8
89	44.5	36.7	55.1

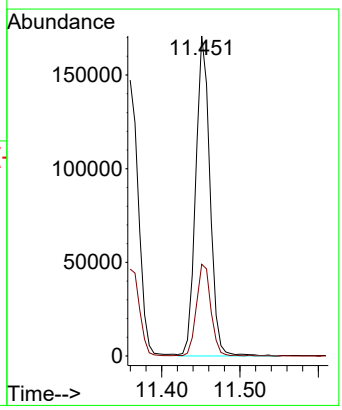


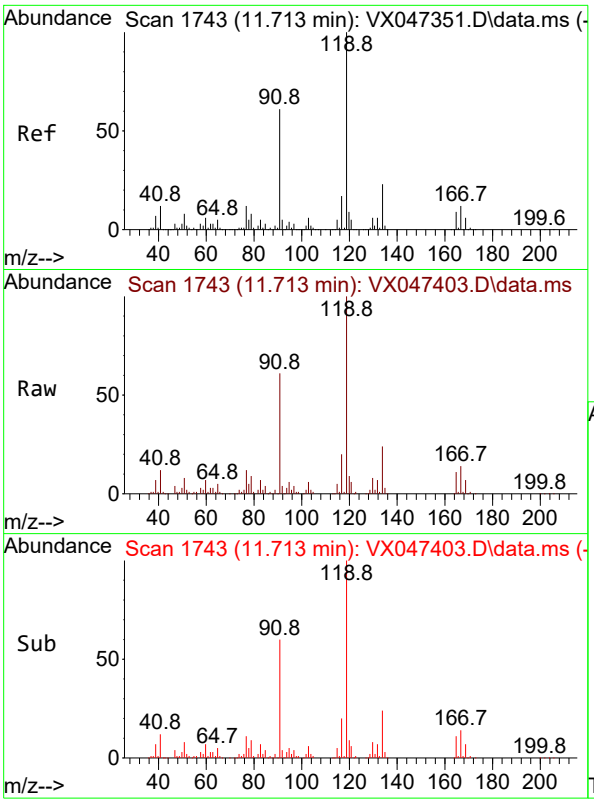


#82
4-Chlorotoluene
Concen: 17.112 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 91 Resp: 216373

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.4	43.0



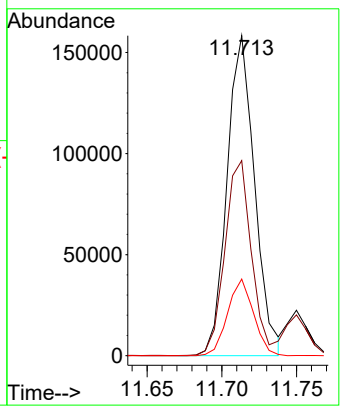


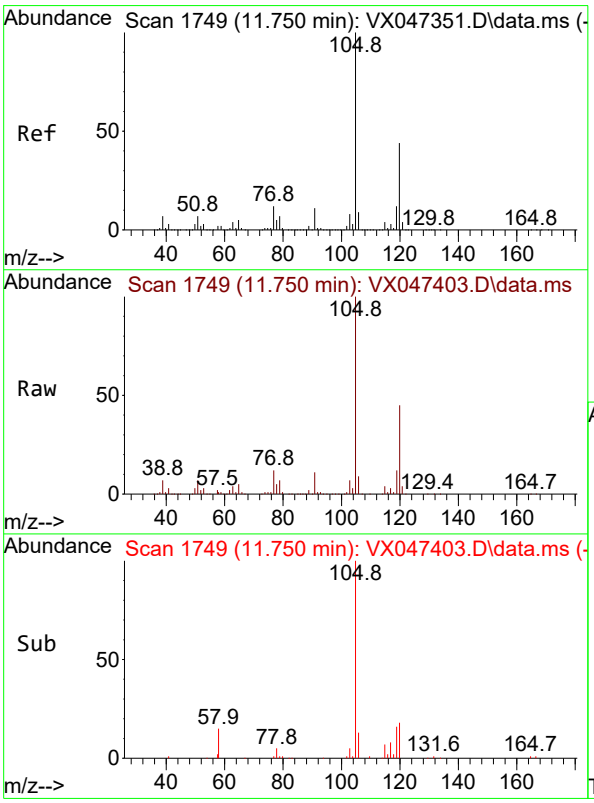
#83
tert-Butylbenzene
Concen: 16.671 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:119 Resp: 203328

Ion	Ratio	Lower	Upper
119	100		
91	58.3	29.1	87.4
134	22.5	11.3	33.9

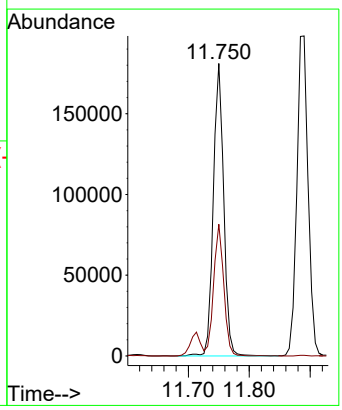


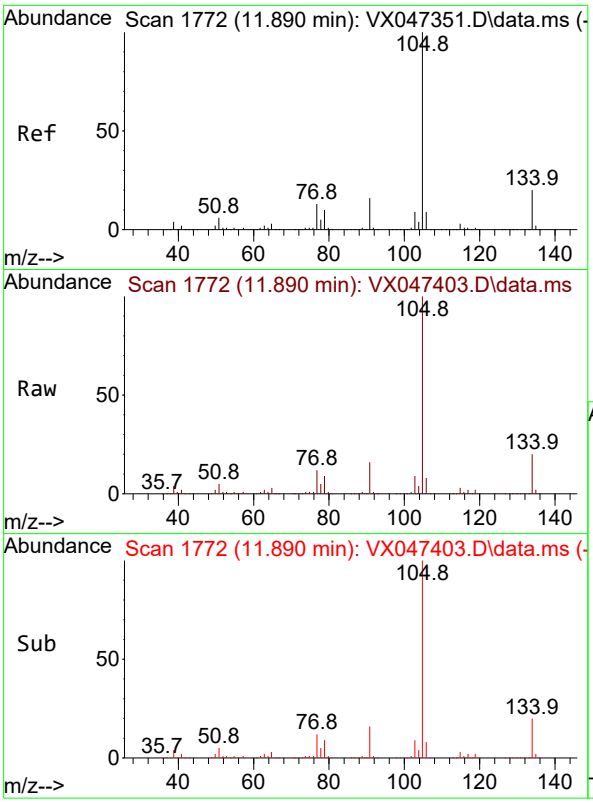


#84
1,2,4-Trimethylbenzene
Concen: 17.518 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:105 Resp: 214157

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.9	65.7



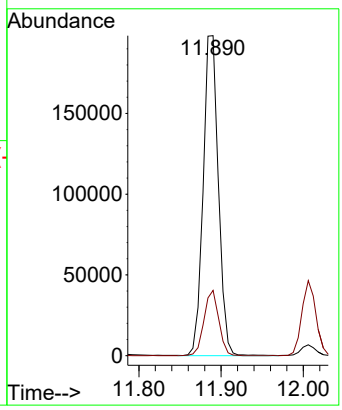


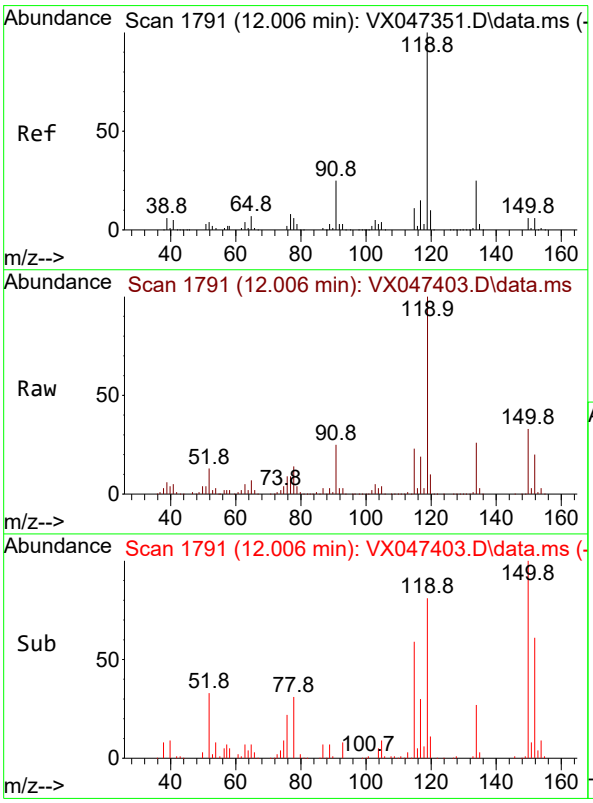
#85
sec-Butylbenzene
Concen: 16.867 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:105 Resp: 254977

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

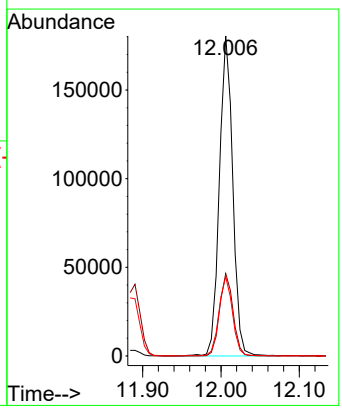


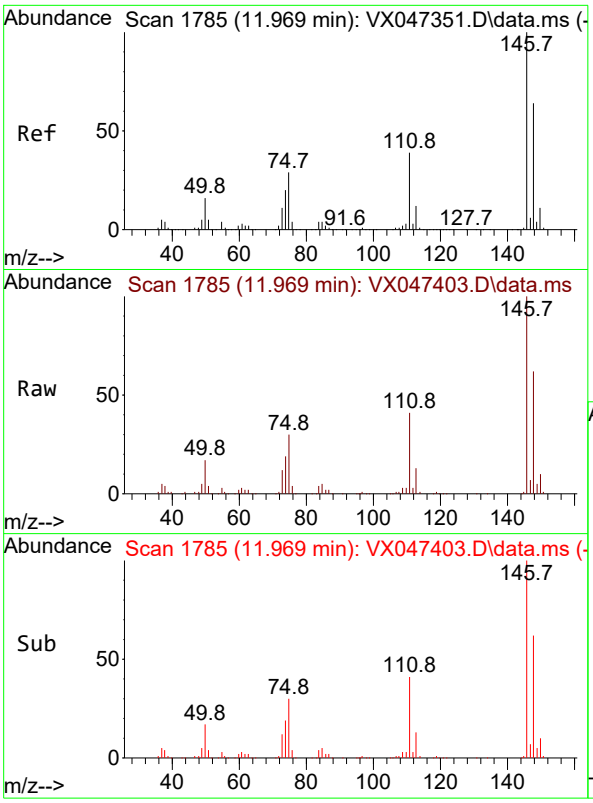


#86
p-Isopropyltoluene
Concen: 16.772 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:119 Resp: 214549

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.8	38.4
91	25.1	12.4	37.4



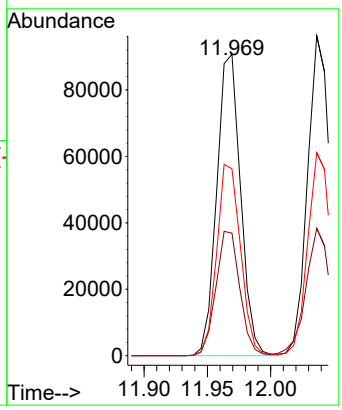


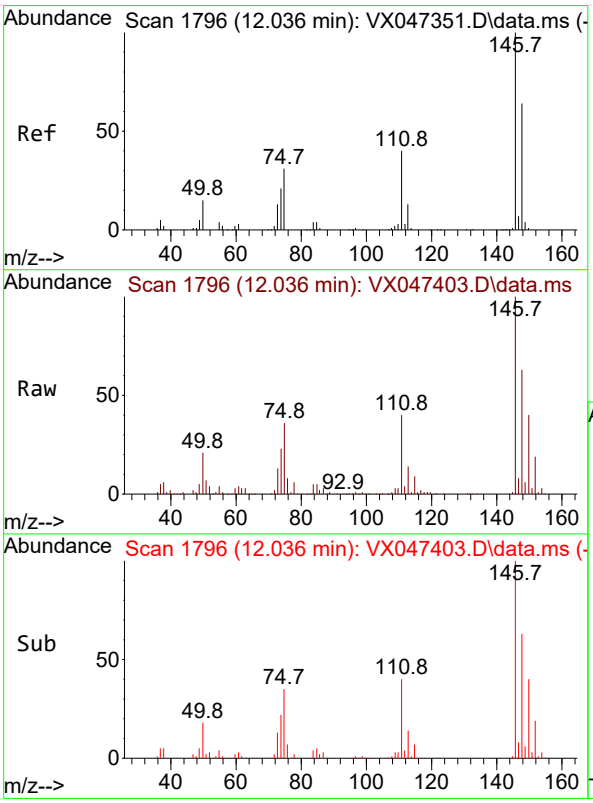
#87
1,3-Dichlorobenzene
Concen: 17.156 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:146 Resp: 118907

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.6	61.8
148	63.5	31.9	95.5

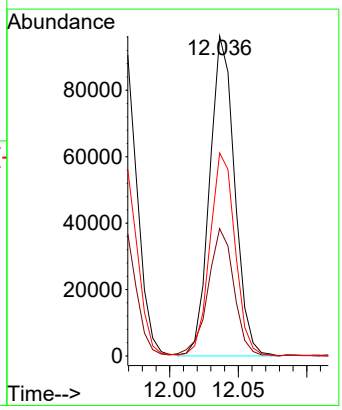


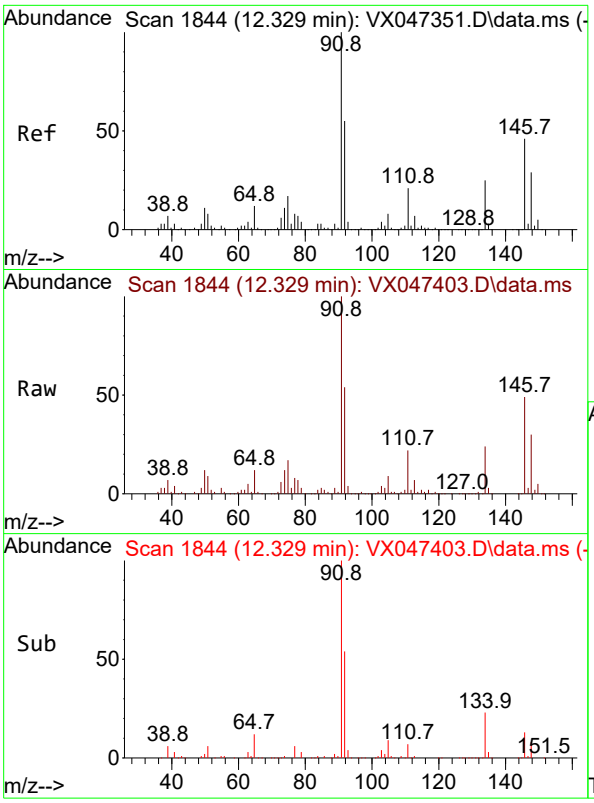


#88
1,4-Dichlorobenzene
Concen: 17.126 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:146 Resp: 122086

Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.4	61.2
148	64.0	31.7	95.1



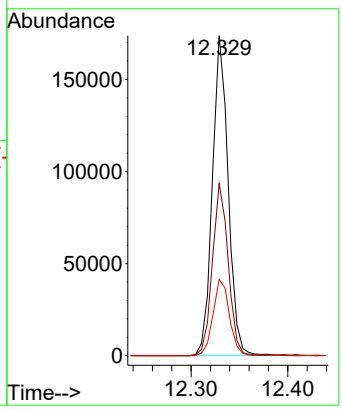


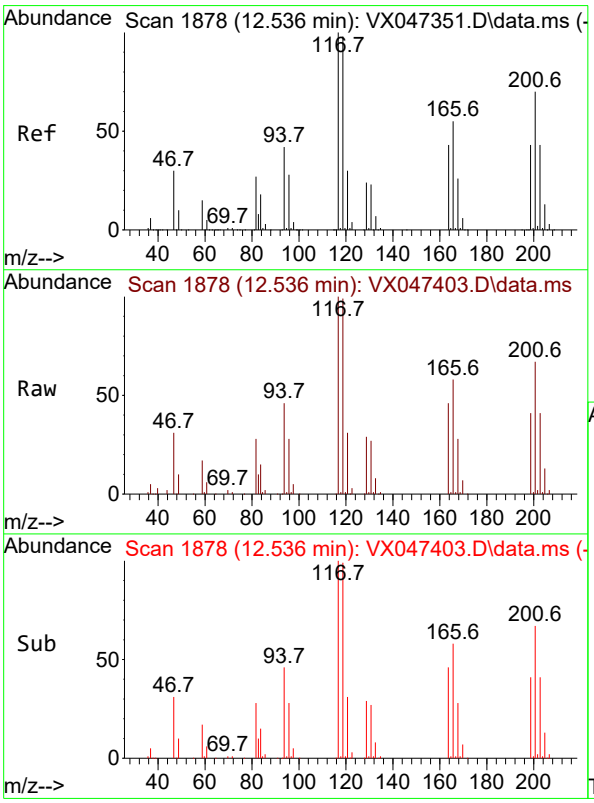
#89
n-Butylbenzene
Concen: 16.594 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 91 Resp: 197431

Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.2	81.5
134	24.9	12.6	37.8

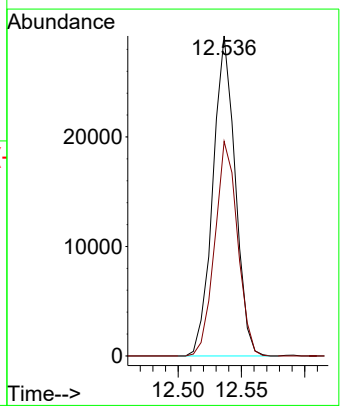


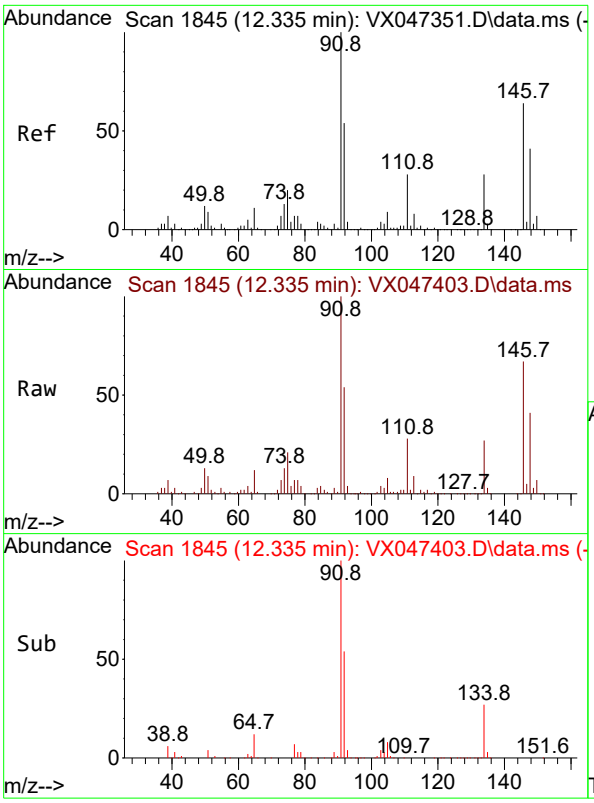


#90
Hexachloroethane
Concen: 15.980 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:117 Resp: 35860

Ion	Ratio	Lower	Upper
117	100		
201	68.2	35.1	105.3



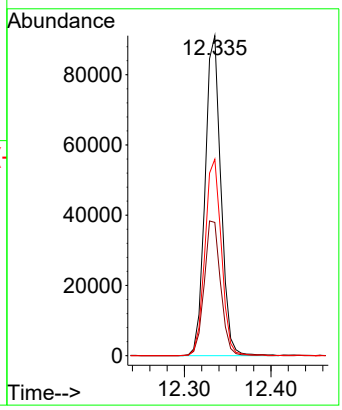


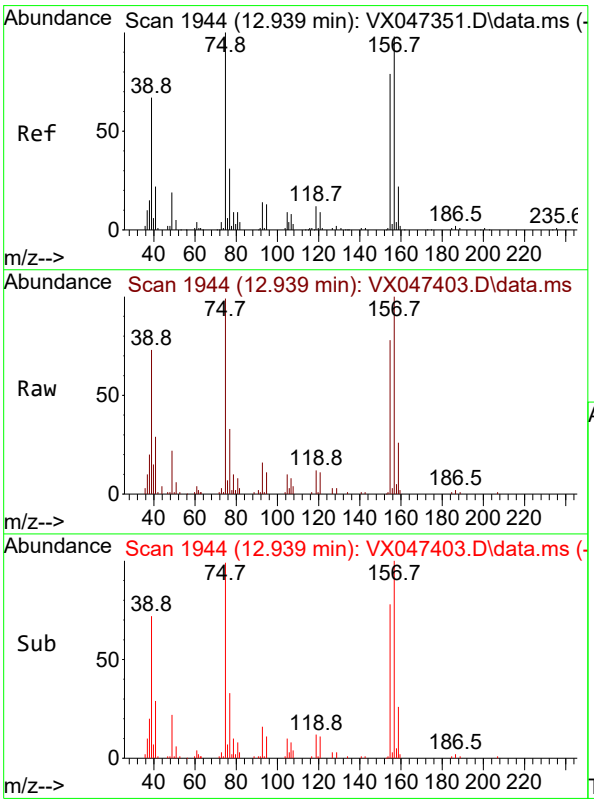
#91
1,2-Dichlorobenzene
Concen: 17.527 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:146 Resp: 115308

Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.1	66.1
148	63.8	31.9	95.5

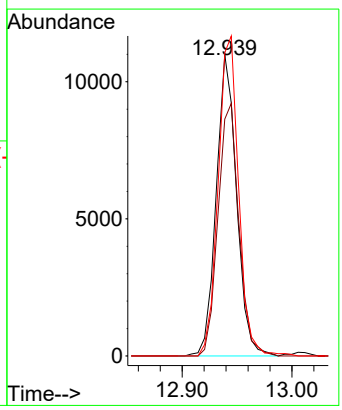


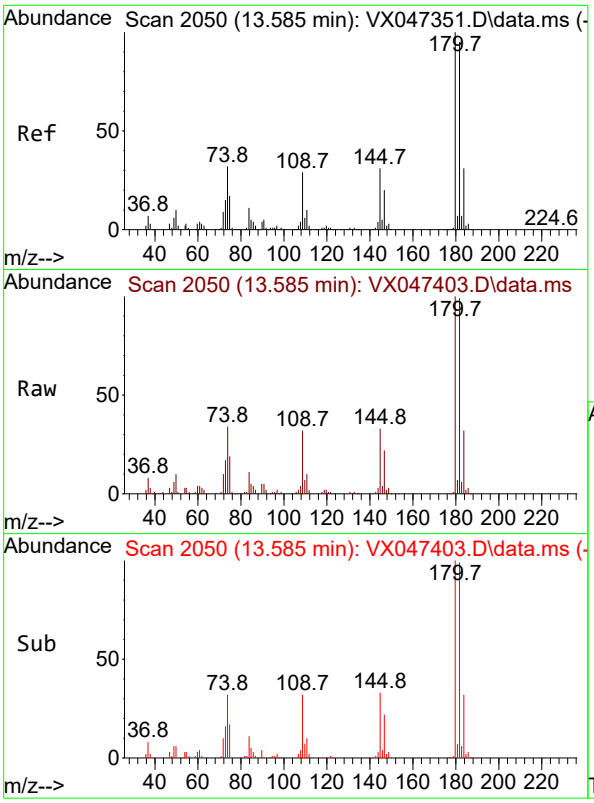


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.791 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 75 Resp: 14165

Ion	Ratio	Lower	Upper
75	100		
155	86.2	41.3	123.7
157	106.6	51.5	154.5



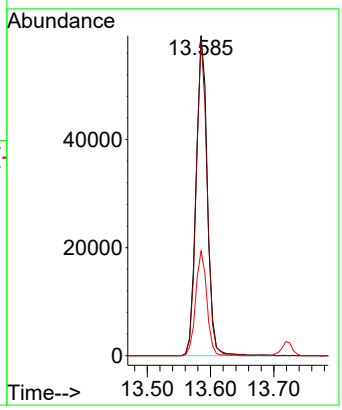


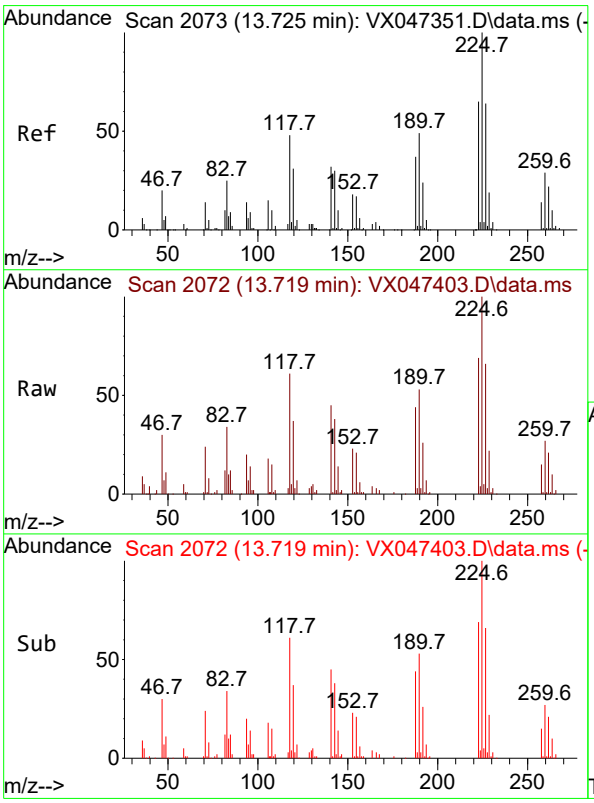
#93
1,2,4-Trichlorobenzene
Concen: 16.600 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:180 Resp: 73210

Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.1	144.4
145	32.6	16.2	48.5

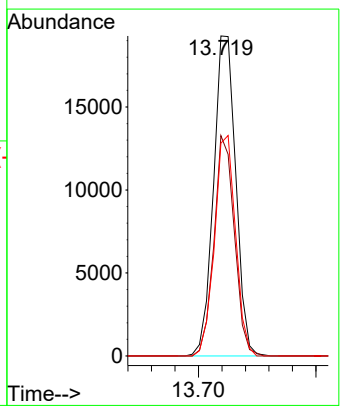


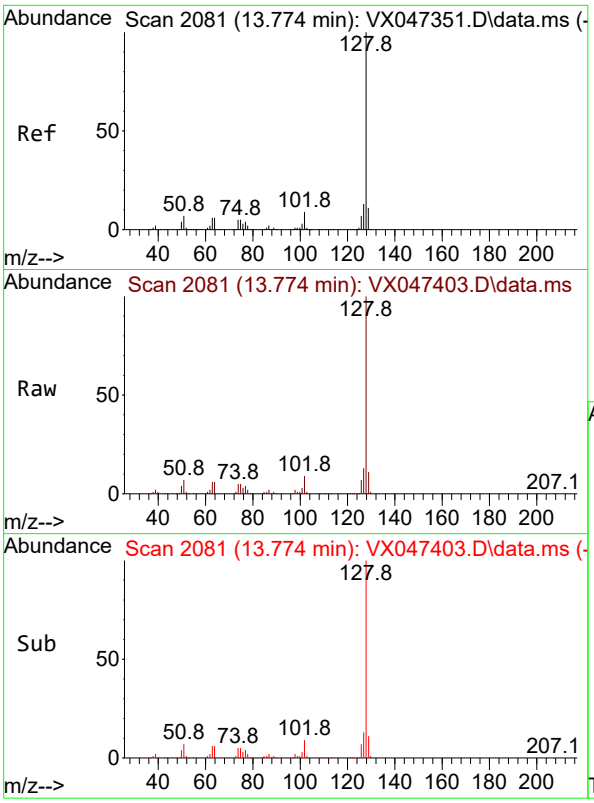


#94
Hexachlorobutadiene
Concen: 16.124 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:225 Resp: 25313

Ion	Ratio	Lower	Upper
225	100		
223	63.2	32.2	96.6
227	65.3	31.6	95.0



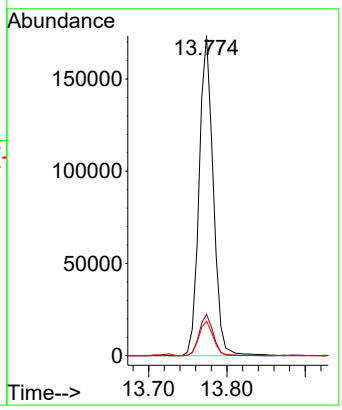


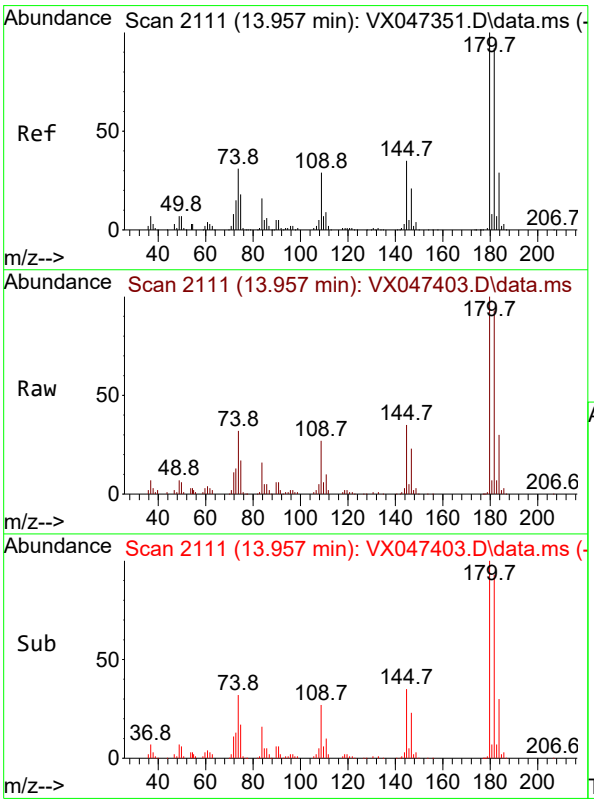
#95
Naphthalene
Concen: 17.229 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:128 Resp: 217150

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	11.0	8.7	13.1

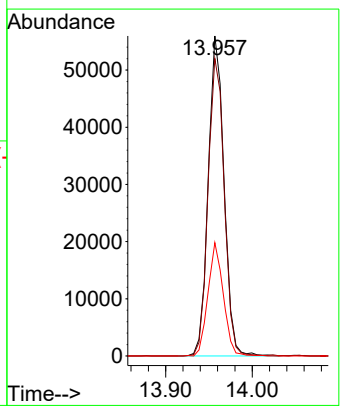




#96
1,2,3-Trichlorobenzene
Concen: 17.088 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion:180 Resp: 71038

Ion	Ratio	Lower	Upper
180	100		
182	94.8	48.0	144.2
145	34.4	17.4	52.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	223750	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	400909	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	374153	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	191138	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	177256	56.605	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 113.220%			
35) Dibromofluoromethane	5.397	113	135082	51.916	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.840%			
50) Toluene-d8	8.653	98	460594	49.526	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.060%			
62) 4-Bromofluorobenzene	11.079	95	187594	54.662	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 109.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	122389	42.909	ug/l	99
3) Chloromethane	1.313	50	113628	44.284	ug/l	99
4) Vinyl Chloride	1.392	62	141572	43.958	ug/l	99
5) Bromomethane	1.624	94	56610	43.518	ug/l	98
6) Chloroethane	1.703	64	83257	42.252	ug/l	99
7) Trichlorofluoromethane	1.904	101	204089	42.842	ug/l	98
8) Diethyl Ether	2.148	74	81882	48.815	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.349	101	116723	42.239	ug/l	98
10) Methyl Iodide	2.471	142	150394	31.758	ug/l	99
11) Tert butyl alcohol	2.965	59	74502	273.483	ug/l	96
12) 1,1-Dichloroethene	2.337	96	124577	44.220	ug/l	95
13) Acrolein	2.252	56	153473	266.880	ug/l	99
14) Allyl chloride	2.684	41	219208	44.799	ug/l	99
15) Acrylonitrile	3.081	53	341211	259.205	ug/l	99
16) Acetone	2.392	43	271040	230.270	ug/l	97
17) Carbon Disulfide	2.532	76	339858	39.978	ug/l	100
18) Methyl Acetate	2.715	43	167342	54.862	ug/l	97
19) Methyl tert-butyl Ether	3.123	73	419584	48.957	ug/l	99
20) Methylene Chloride	2.806	84	146215	46.911	ug/l	98
21) trans-1,2-Dichloroethene	3.111	96	132919	44.453	ug/l	97
22) Diisopropyl ether	3.776	45	479885	49.616	ug/l	95
23) Vinyl Acetate	3.733	43	1963477	247.674	ug/l	99
24) 1,1-Dichloroethane	3.623	63	256138	46.852	ug/l	99
25) 2-Butanone	4.568	43	406290	263.558	ug/l	99
26) 2,2-Dichloropropane	4.495	77	162354	39.347	ug/l	99
27) cis-1,2-Dichloroethene	4.507	96	160514	46.090	ug/l	98
28) Bromochloromethane	4.910	49	120442	52.943	ug/l	99
29) Tetrahydrofuran	5.025	42	258930	259.873	ug/l	99
30) Chloroform	5.105	83	264579	47.421	ug/l	98
31) Cyclohexane	5.489	56	210293	41.728	ug/l	96
32) 1,1,1-Trichloroethane	5.397	97	213461	44.449	ug/l	99
36) 1,1-Dichloropropene	5.702	75	172322	41.954	ug/l	100
37) Ethyl Acetate	4.727	43	188718	44.258	ug/l	98
38) Carbon Tetrachloride	5.696	117	183554	40.895	ug/l	95
39) Methylcyclohexane	7.385	83	198884	38.819	ug/l	94
40) Benzene	6.050	78	540313	43.949	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	85601	47.606	ug/l		96
42) 1,2-Dichloroethane	6.098	62	197600	45.376	ug/l		99
43) Isopropyl Acetate	6.354	43	293062	47.841	ug/l		99
44) Trichloroethene	7.129	130	133973	42.559	ug/l		96
45) 1,2-Dichloropropane	7.433	63	138835	45.077	ug/l		98
46) Dibromomethane	7.586	93	102584	45.878	ug/l		98
47) Bromodichloromethane	7.824	83	207551	44.775	ug/l		100
48) Methyl methacrylate	7.696	41	151800	47.741	ug/l		100
49) 1,4-Dioxane	7.683	88	31220	1010.025	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	876089	248.529	ug/l		98
52) Toluene	8.720	92	338753	44.591	ug/l		99
53) t-1,3-Dichloropropene	8.982	75	184995	45.727	ug/l		100
54) cis-1,3-Dichloropropene	8.372	75	207853	45.391	ug/l		97
55) 1,1,2-Trichloroethane	9.153	97	133696	46.352	ug/l		98
56) Ethyl methacrylate	9.116	69	206281	48.508	ug/l		99
57) 1,3-Dichloropropane	9.311	76	228701	46.532	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	483102	238.311	ug/l		99
59) 2-Hexanone	9.433	43	598364	245.394	ug/l		100
60) Dibromochloromethane	9.518	129	156660	45.703	ug/l		100
61) 1,2-Dibromoethane	9.610	107	136293	45.823	ug/l		99
64) Tetrachloroethene	9.275	164	107708	39.799	ug/l		99
65) Chlorobenzene	10.079	112	371836	41.820	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.165	131	130456	43.404	ug/l		100
67) Ethyl Benzene	10.195	91	642123	41.960	ug/l		99
68) m/p-Xylenes	10.299	106	485680	85.114	ug/l		99
69) o-Xylene	10.640	106	234310	42.669	ug/l		99
70) Styrene	10.652	104	409804	44.167	ug/l		99
71) Bromoform	10.799	173	98912	43.805	ug/l	#	99
73) Isopropylbenzene	10.963	105	604342	40.404	ug/l		99
74) N-amyl acetate	10.841	43	253123	44.564	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	189997	43.264	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	178671	50.966	ug/l		90
77) Bromobenzene	11.195	156	151274	41.417	ug/l		99
78) n-propylbenzene	11.305	91	718624	40.228	ug/l		99
79) 2-Chlorotoluene	11.360	91	435174	40.298	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	499524	40.589	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	28218	37.350	ug/l		100
82) 4-Chlorotoluene	11.451	91	504359	39.621	ug/l		99
83) tert-Butylbenzene	11.713	119	497254	40.499	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	509532	41.402	ug/l		99
85) sec-Butylbenzene	11.890	105	611062	40.153	ug/l		100
86) p-Isopropyltoluene	12.006	119	512989	39.835	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	282173	40.440	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	284933	39.703	ug/l		100
89) n-Butylbenzene	12.329	91	478191	39.923	ug/l		100
90) Hexachloroethane	12.536	117	90127	39.894	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	270890	40.902	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	37223	43.828	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	178812	40.273	ug/l		99
94) Hexachlorobutadiene	13.725	225	58535	37.038	ug/l		99
95) Naphthalene	13.774	128	564719	44.507	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	172490	41.215	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

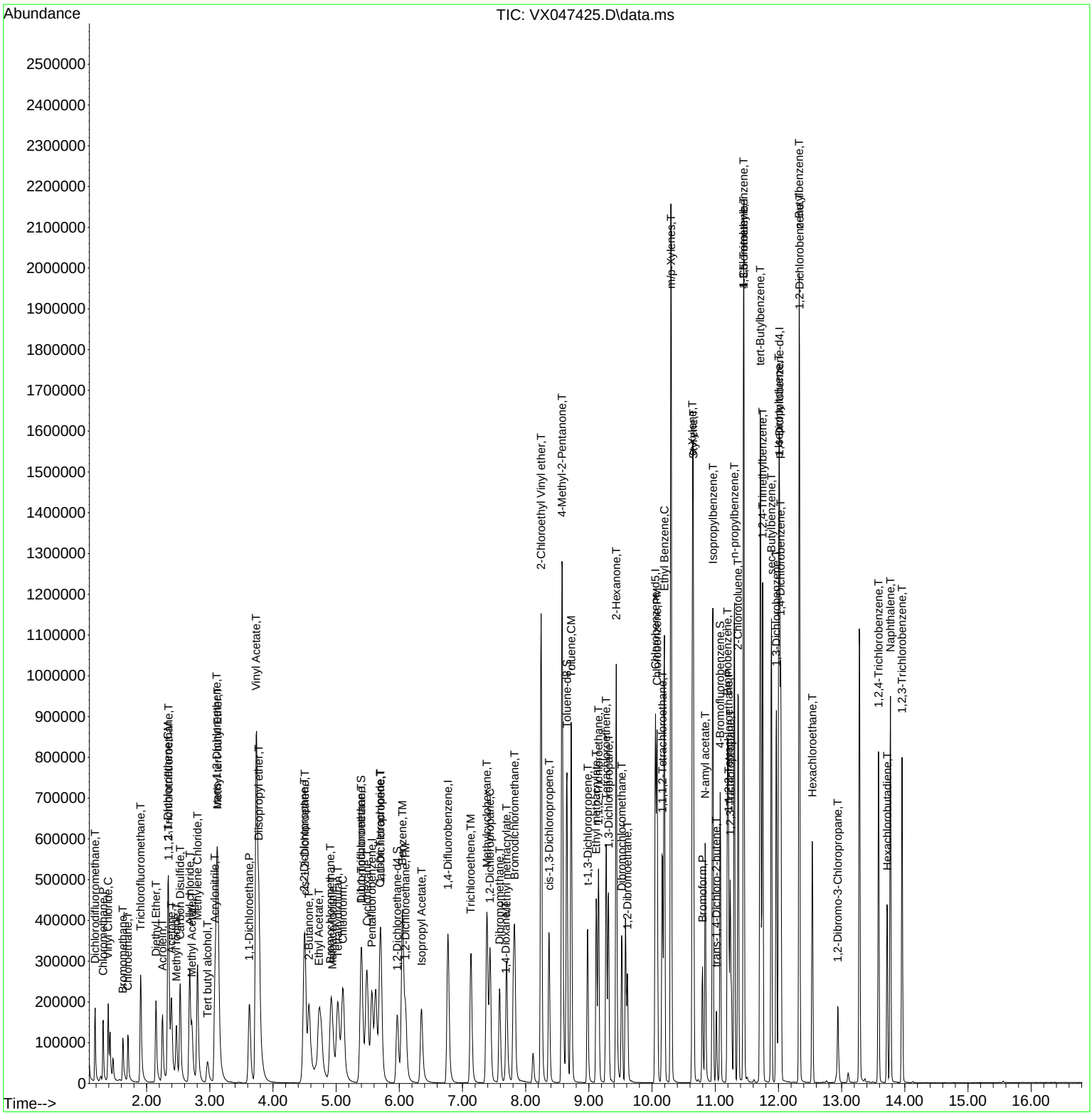
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

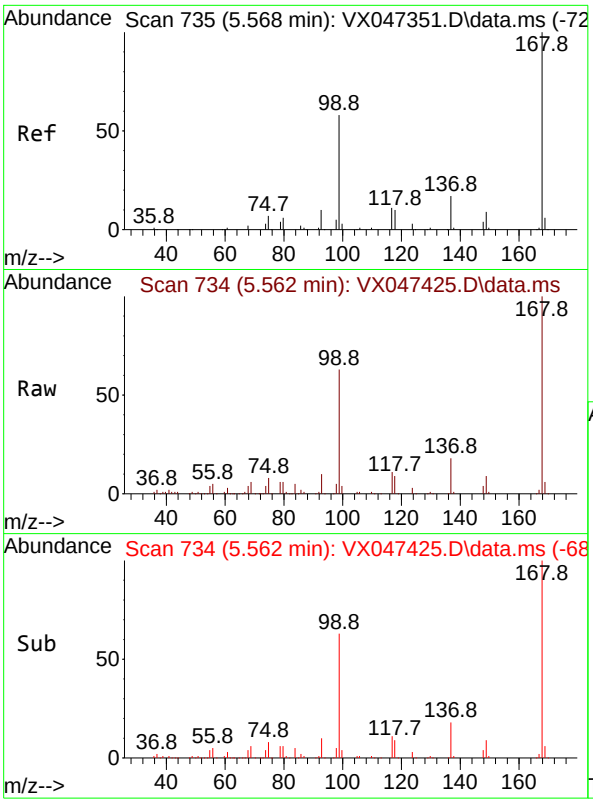
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047425.D
Acq On : 19 Aug 2025 19:47
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 20 01:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



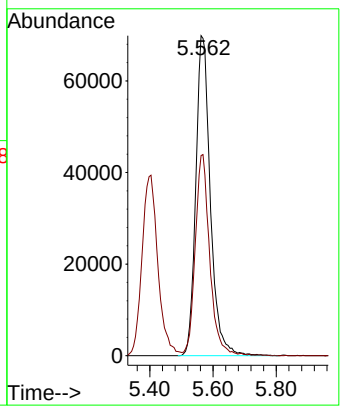


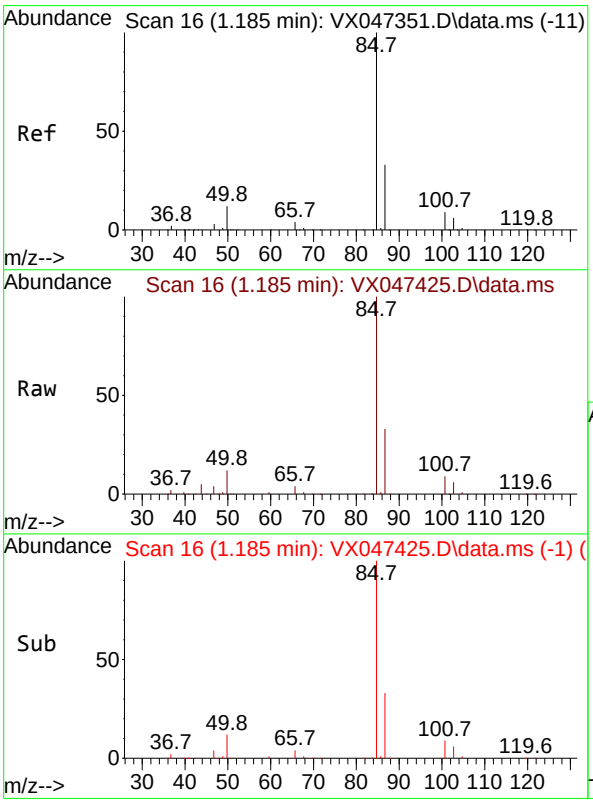
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 223750

Ion	Ratio	Lower	Upper
168	100		
99	62.6	47.9	71.9

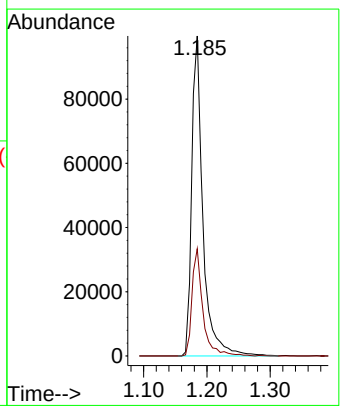


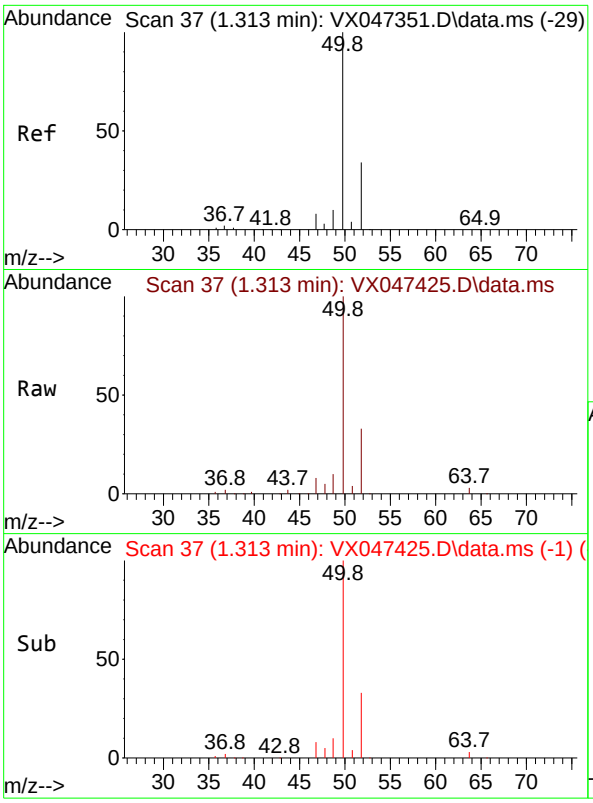


#2
Dichlorodifluoromethane
Concen: 42.909 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 85 Resp: 122389

Ion	Ratio	Lower	Upper
85	100		
87	33.5	16.4	49.1



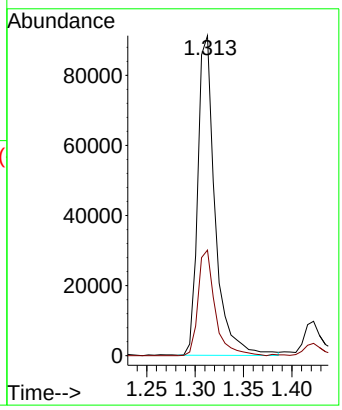


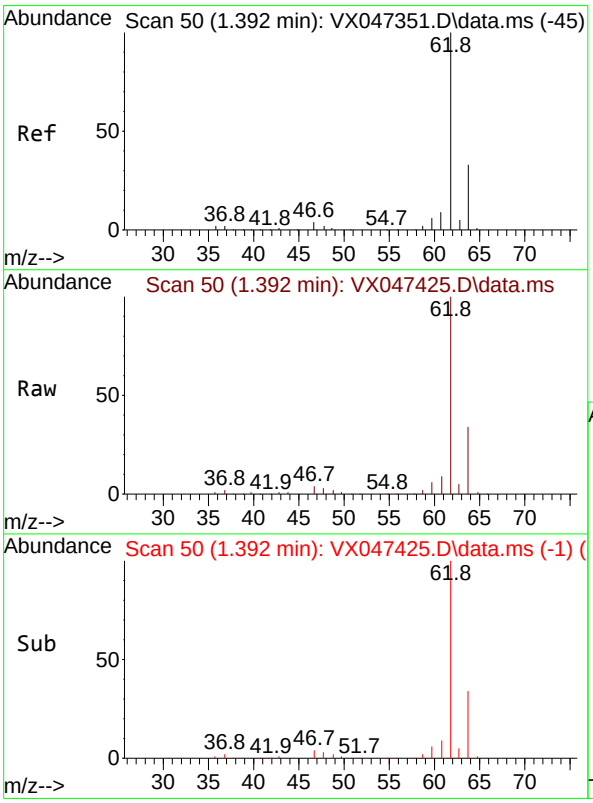
#3
Chloromethane
Concen: 44.284 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 113628

Ion	Ratio	Lower	Upper
50	100		
52	33.0	27.0	40.4

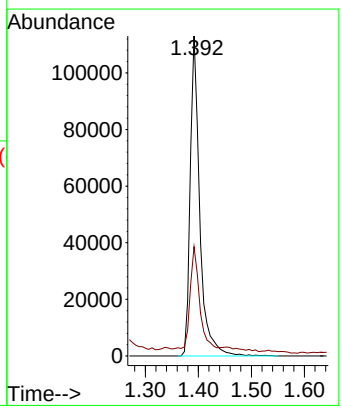


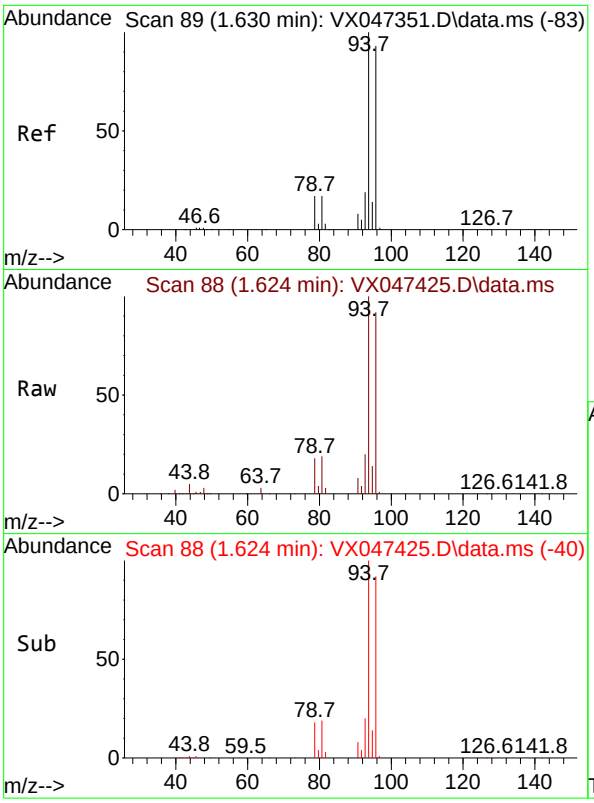


#4
Vinyl Chloride
Concen: 43.958 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 62 Resp: 141572

Ion	Ratio	Lower	Upper
62	100		
64	32.7	26.5	39.7



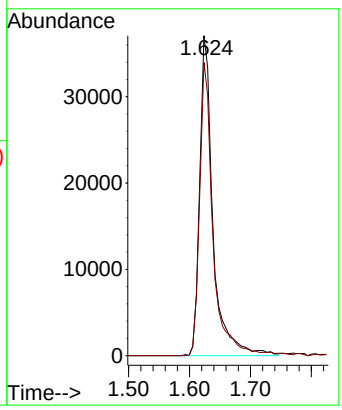


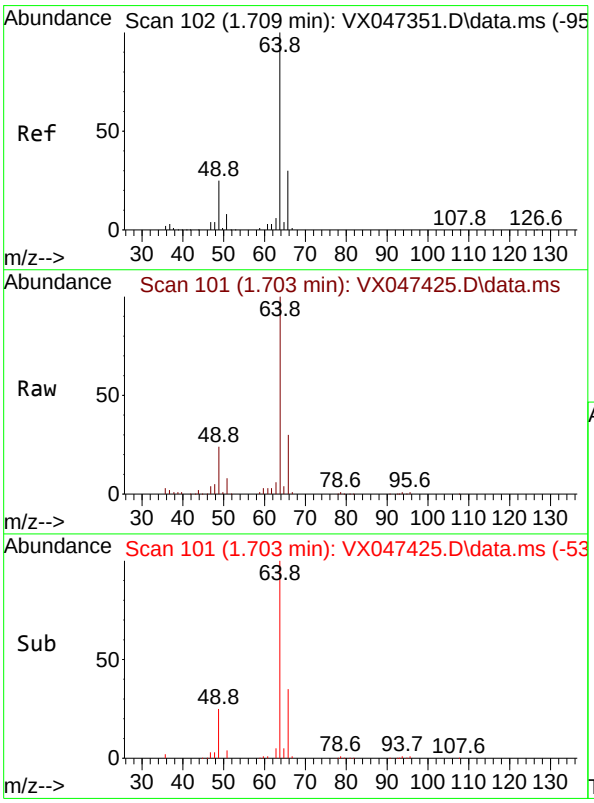
#5
Bromomethane
Concen: 43.518 ug/l
RT: 1.624 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 56610

Ion	Ratio	Lower	Upper
94	100		
96	91.6	74.7	112.1

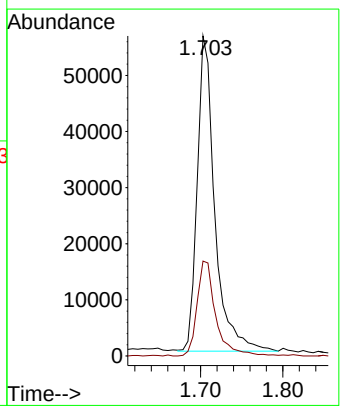


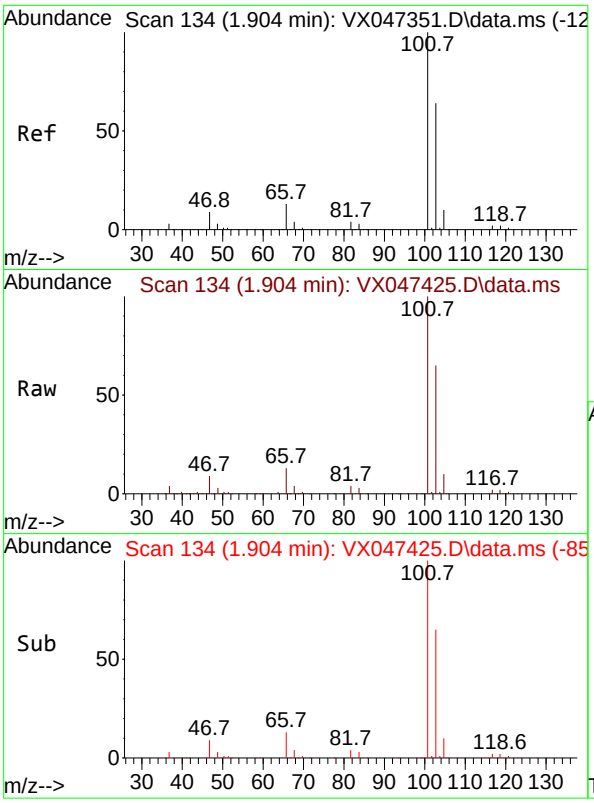


#6
Chloroethane
Concen: 42.252 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 64 Resp: 83257

Ion	Ratio	Lower	Upper
64	100		
66	30.1	24.4	36.6



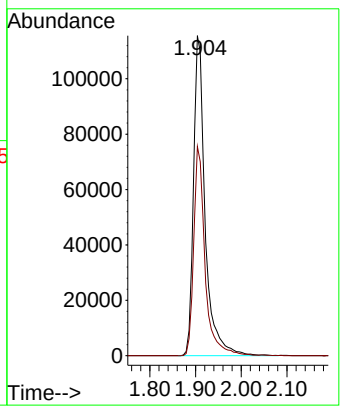


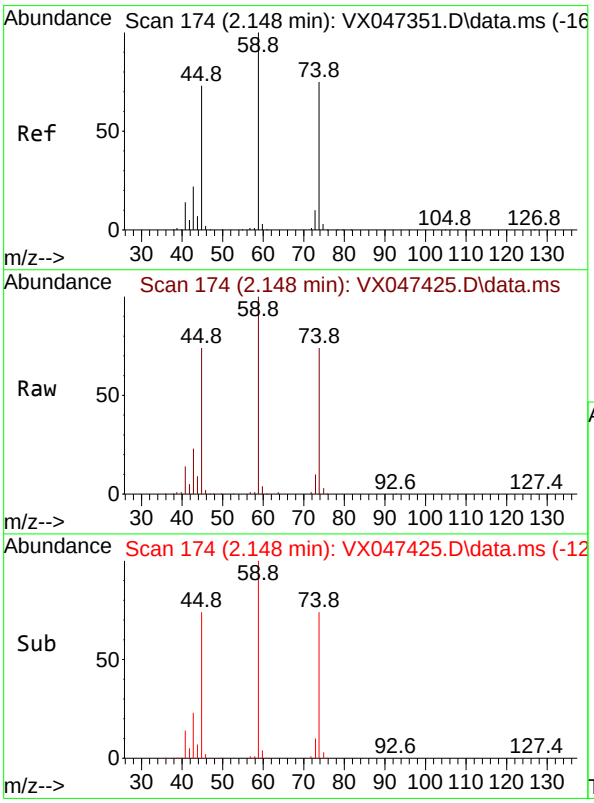
#7
Trichlorofluoromethane
Concen: 42.842 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 204089

Ion	Ratio	Lower	Upper
101	100		
103	65.4	50.9	76.3

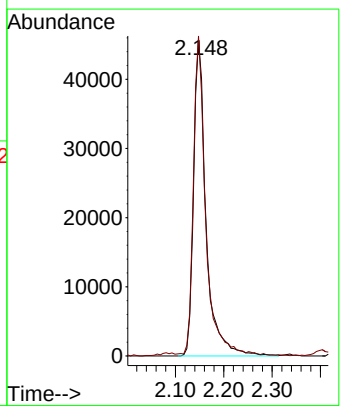


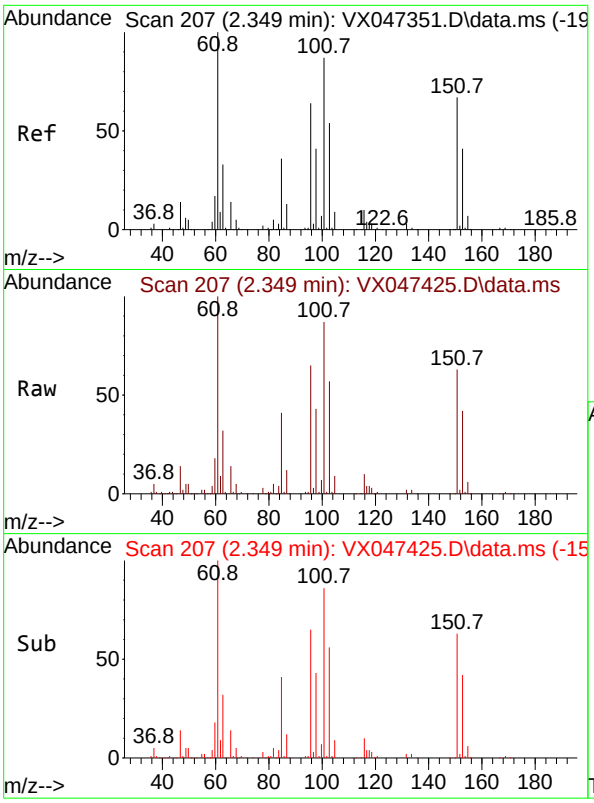


#8
Diethyl Ether
Concen: 48.815 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 74 Resp: 81882

Ion	Ratio	Lower	Upper
74	100		
45	98.8	51.3	154.0



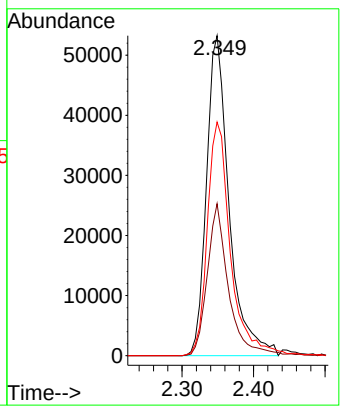


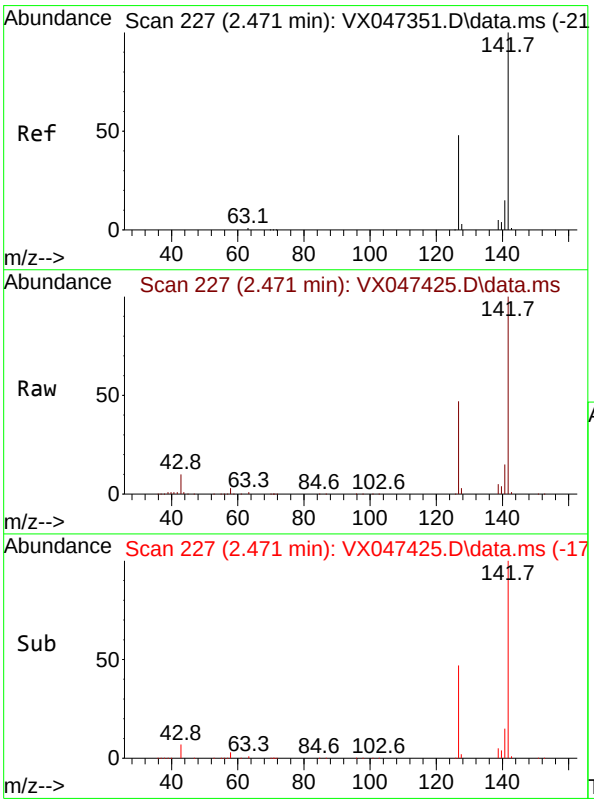
#9
1,1,2-Trichlorotrifluoroethane
Concen: 42.239 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 116723

Ion	Ratio	Lower	Upper
101	100		
85	44.9	34.3	51.5
151	75.2	59.2	88.8

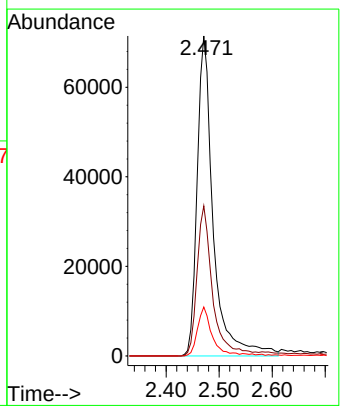


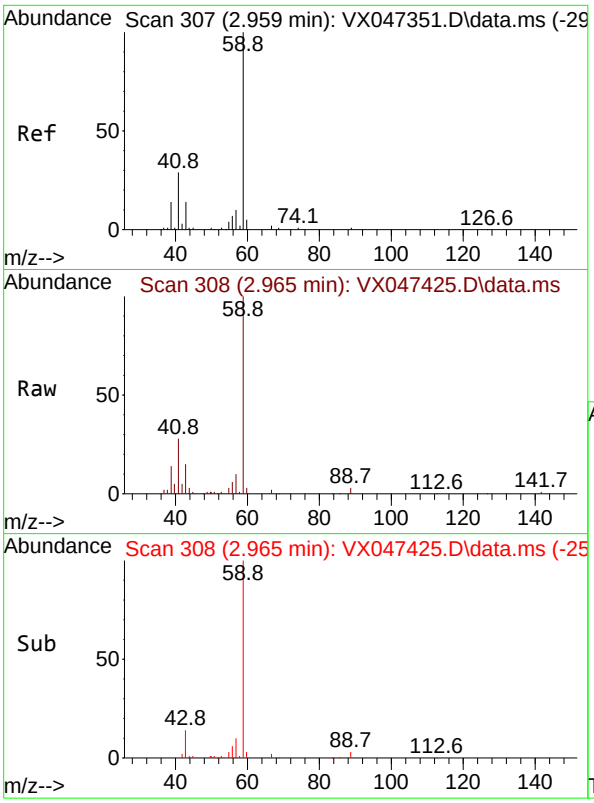


#10
Methyl Iodide
Concen: 31.758 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:142 Resp: 150394

Ion	Ratio	Lower	Upper
142	100		
127	45.3	36.1	54.1
141	14.5	11.1	16.7



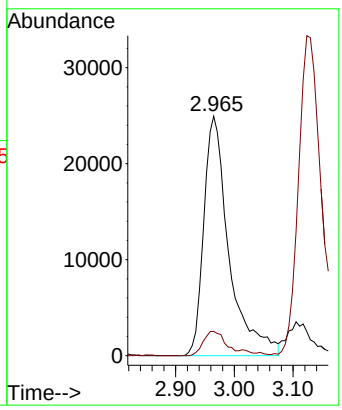


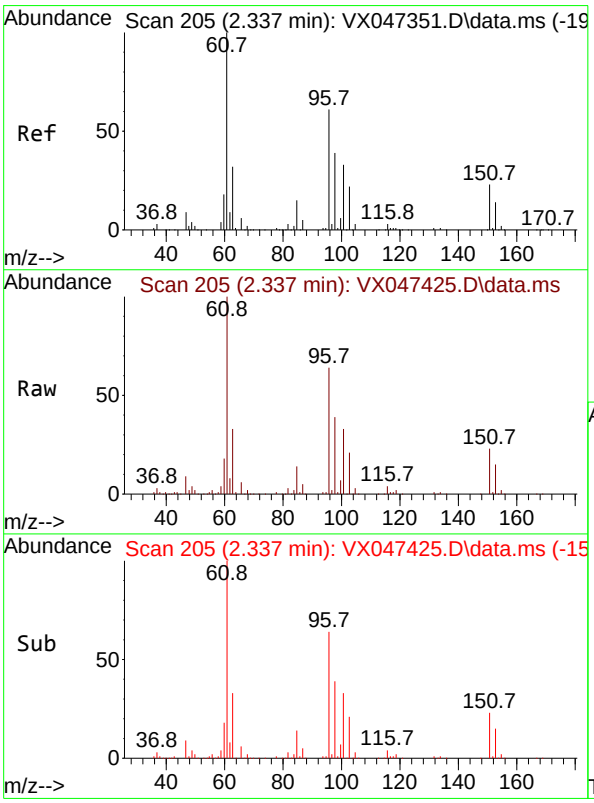
#11
Tert butyl alcohol
Concen: 273.483 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 74502

Ion	Ratio	Lower	Upper
59	100		
57	9.0	8.3	12.5

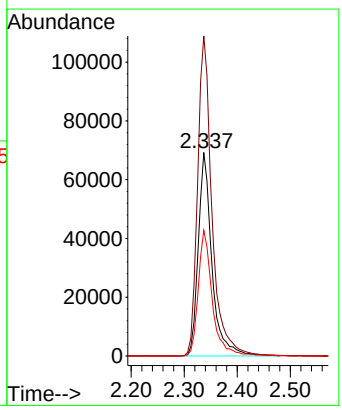


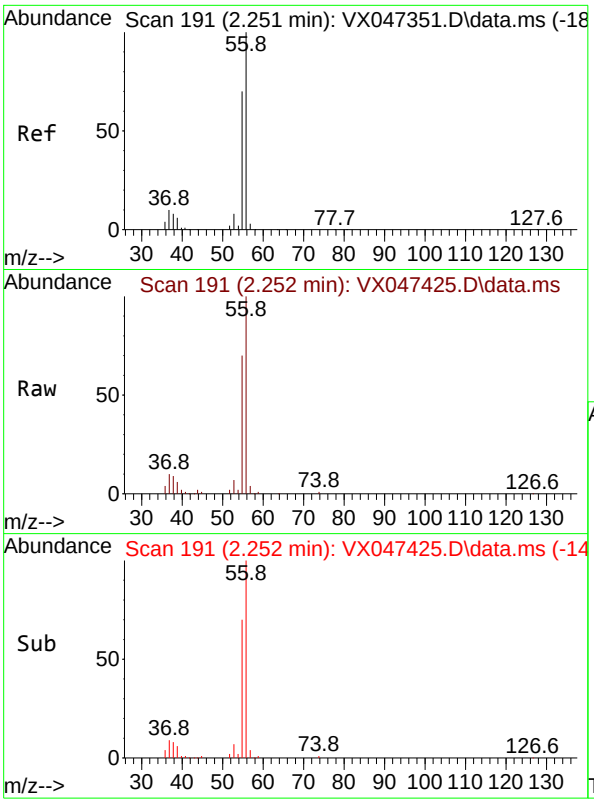


#12
1,1-Dichloroethene
Concen: 44.220 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 96 Resp: 124577

Ion	Ratio	Lower	Upper
96	100		
61	157.3	132.2	198.2
98	61.8	51.2	76.8



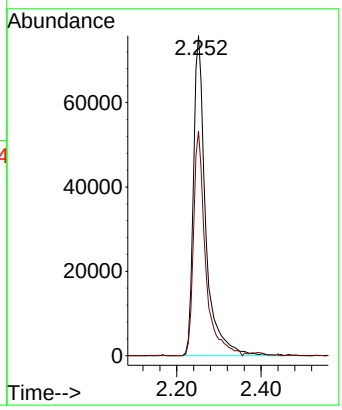


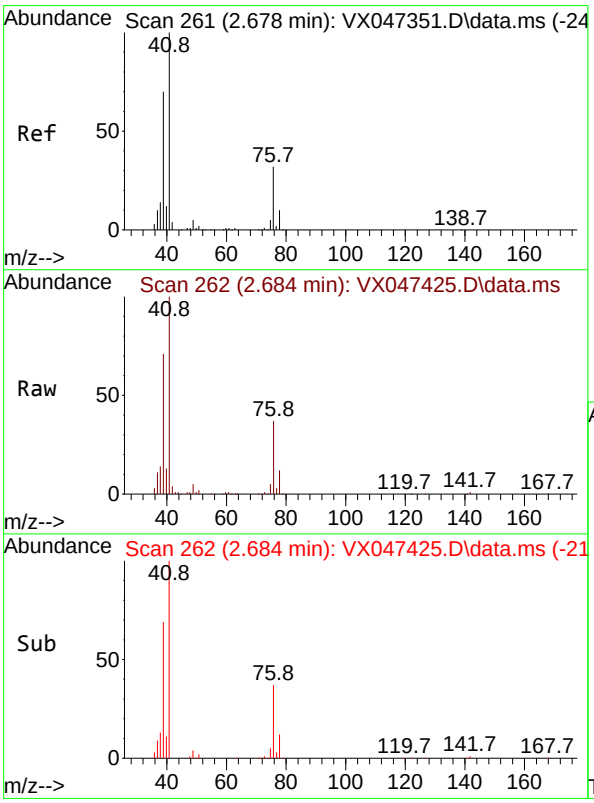
#13
Acrolein
Concen: 266.880 ug/l
RT: 2.252 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 153473

Ion	Ratio	Lower	Upper
56	100		
55	68.6	55.5	83.3

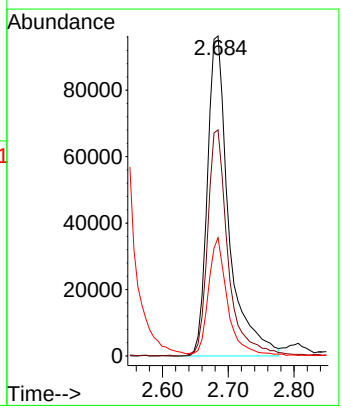


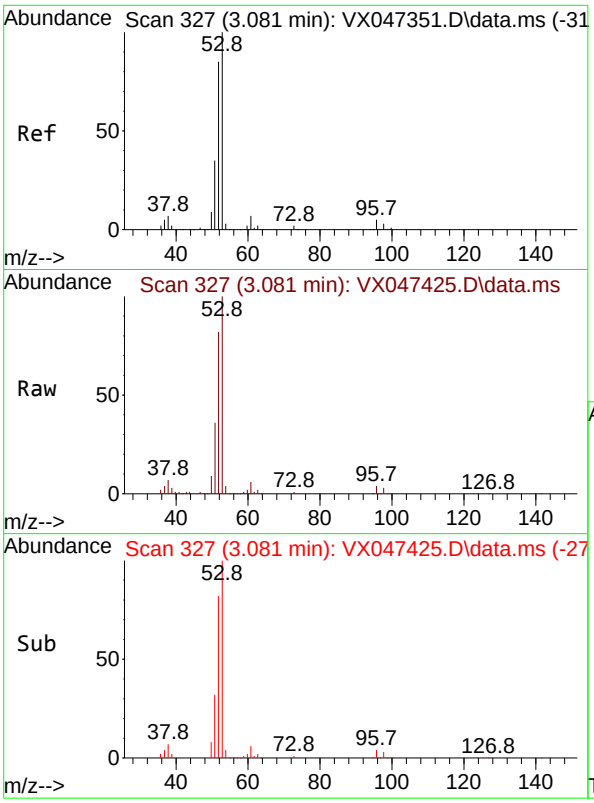


#14
Allyl chloride
Concen: 44.799 ug/l
RT: 2.684 min Scan# 262
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 41 Resp: 219208

Ion	Ratio	Lower	Upper
41	100		
39	67.5	54.6	81.8
76	33.2	27.6	41.4



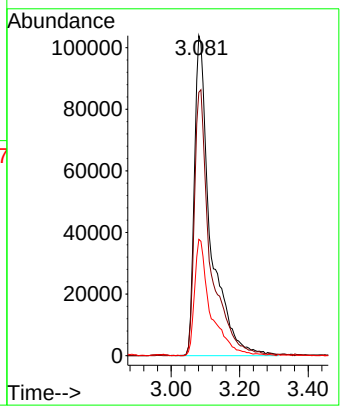


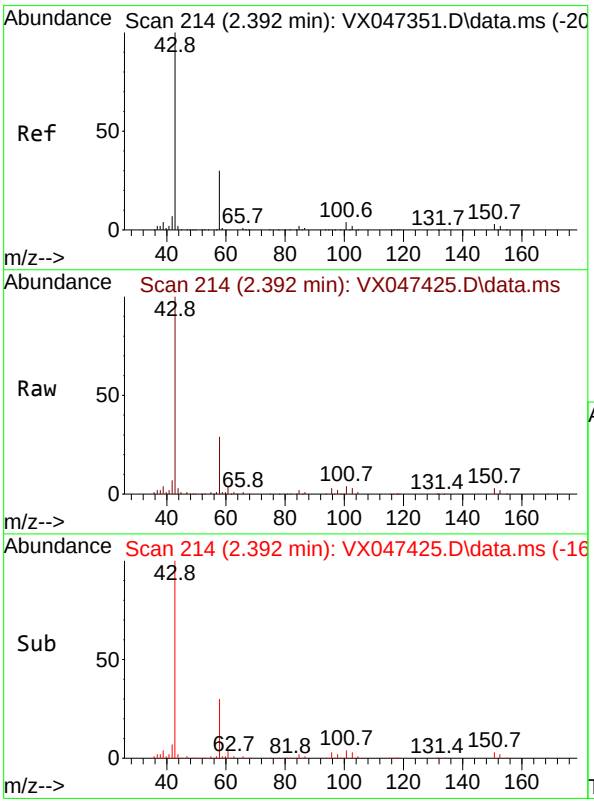
#15
Acrylonitrile
Concen: 259.205 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 341211

Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.8	98.6
51	36.5	28.2	42.2

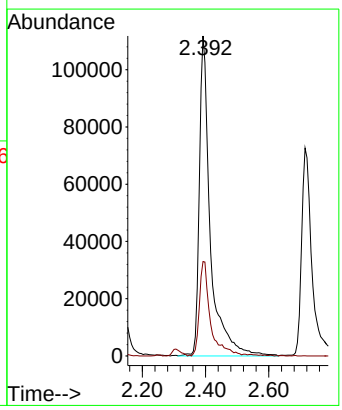


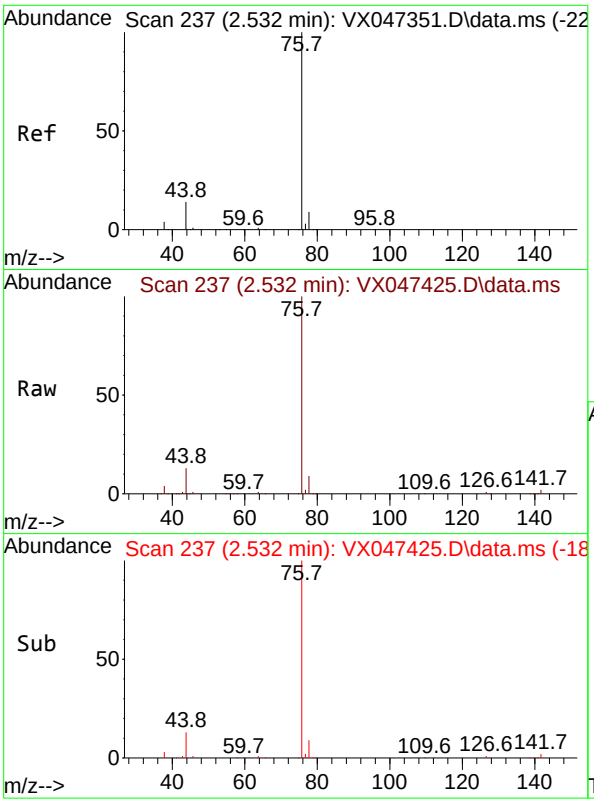


#16
Acetone
Concen: 230.270 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 43 Resp: 271040

Ion	Ratio	Lower	Upper
43	100		
58	29.4	24.8	37.2



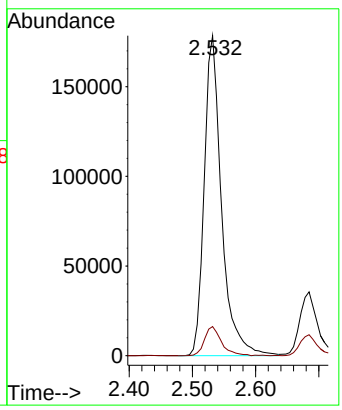


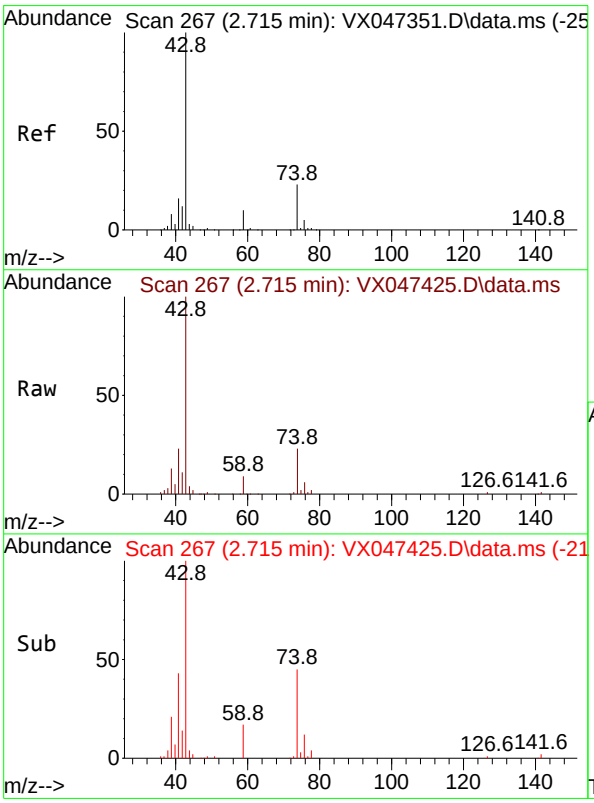
#17
Carbon Disulfide
Concen: 39.978 ug/l
RT: 2.532 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 339858

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

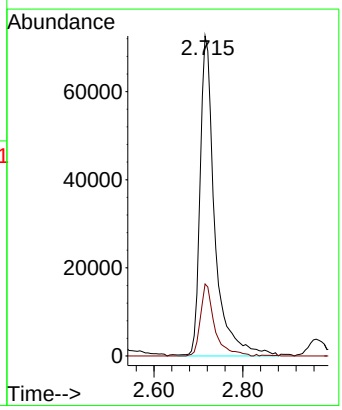


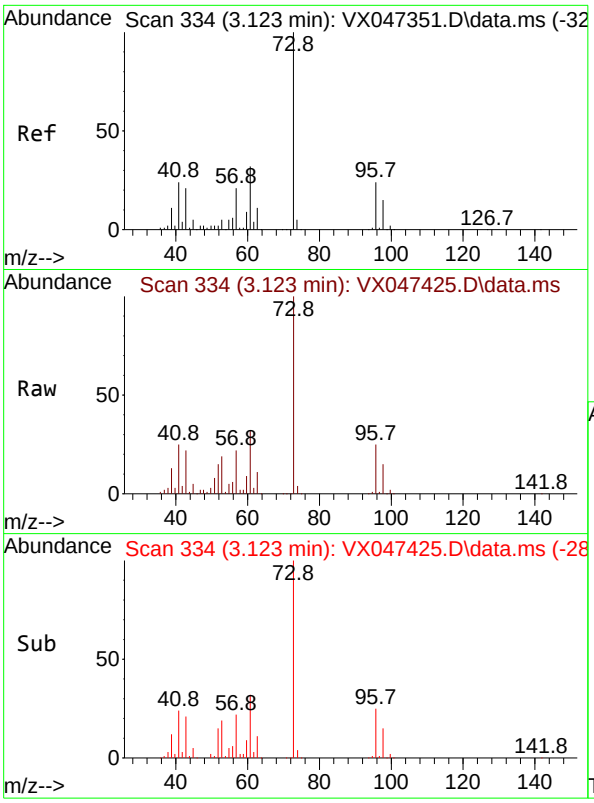


#18
Methyl Acetate
Concen: 54.862 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 43 Resp: 167342

Ion	Ratio	Lower	Upper
43	100		
74	21.6	18.4	27.6



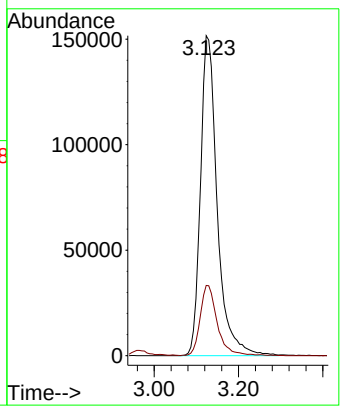


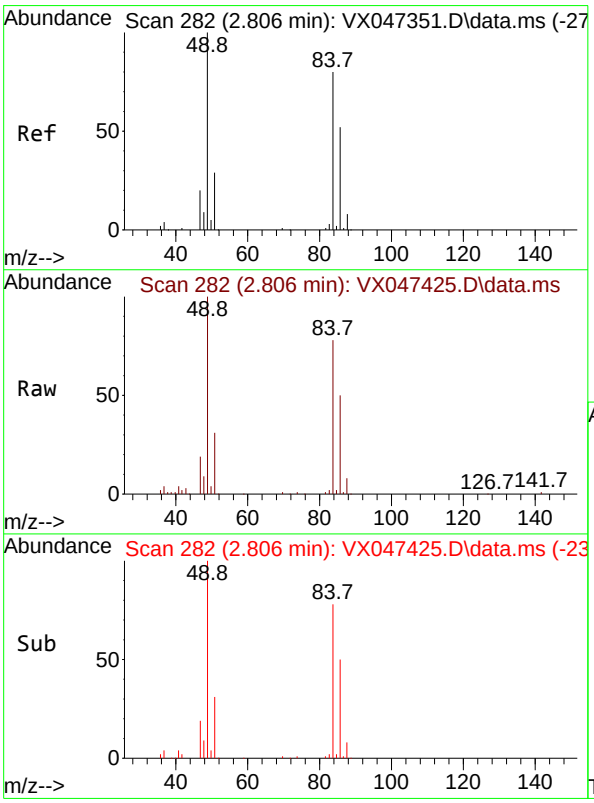
#19
Methyl tert-butyl Ether
Concen: 48.957 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 419584

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.0	25.6

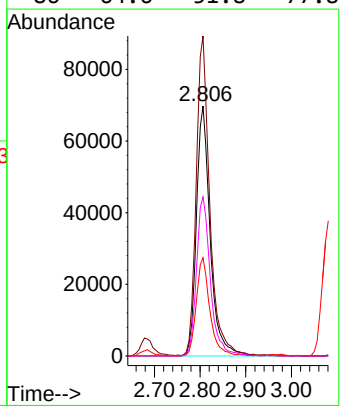


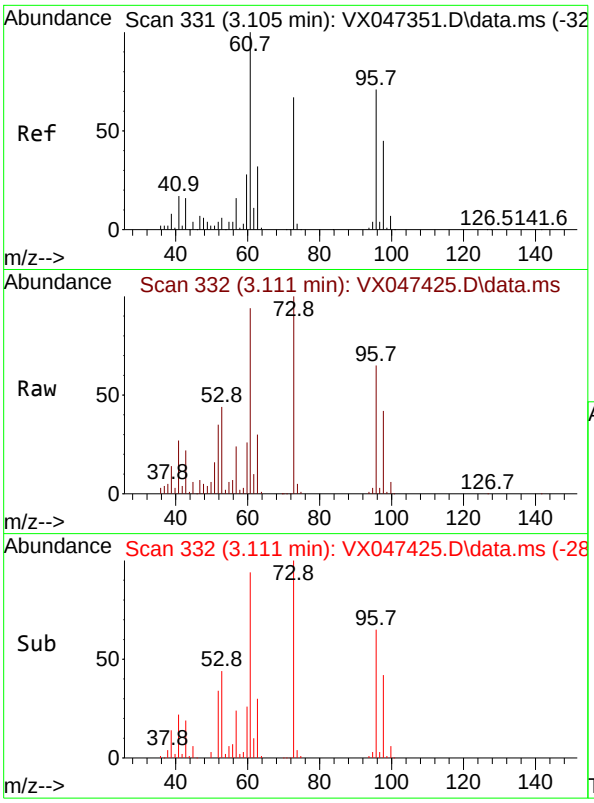


#20
Methylene Chloride
Concen: 46.911 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 84 Resp: 146215

Ion	Ratio	Lower	Upper
84	100		
49	127.7	100.1	150.1
51	39.3	29.5	44.3
86	64.6	51.8	77.8



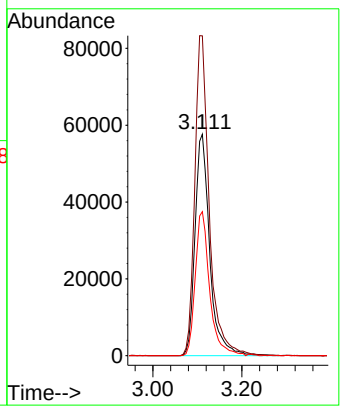


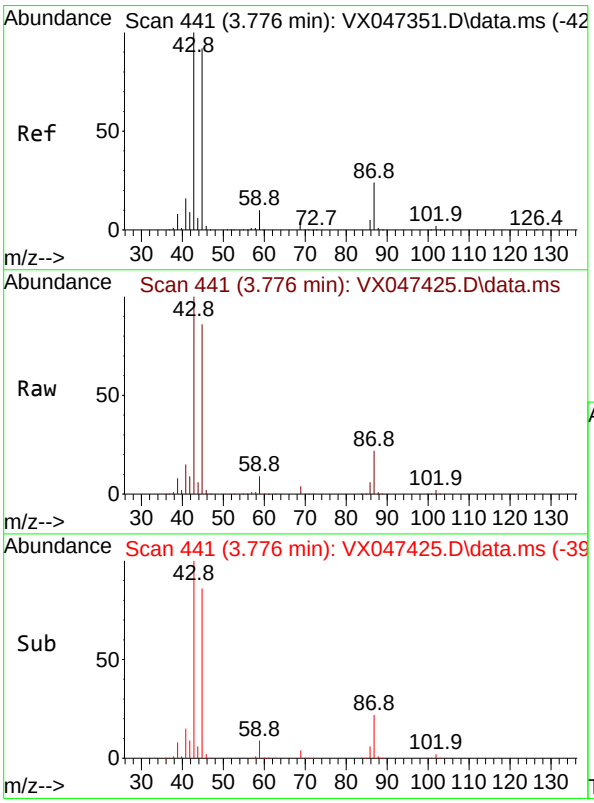
#21
trans-1,2-Dichloroethene
Concen: 44.453 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 132919

Ion	Ratio	Lower	Upper
96	100		
61	144.4	112.6	169.0
98	65.0	50.9	76.3

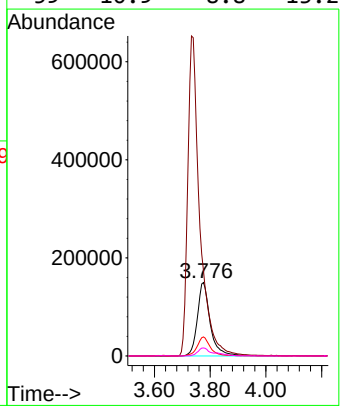


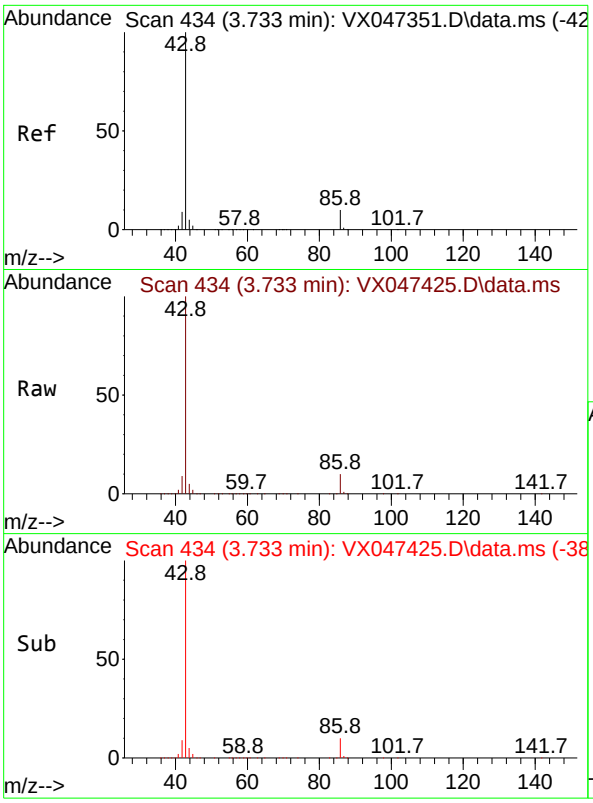


#22
Diisopropyl ether
Concen: 49.616 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 45 Resp: 479885

Ion	Ratio	Lower	Upper
45	100		
43	115.7	86.8	130.2
87	26.0	20.4	30.6
59	10.9	8.8	13.2



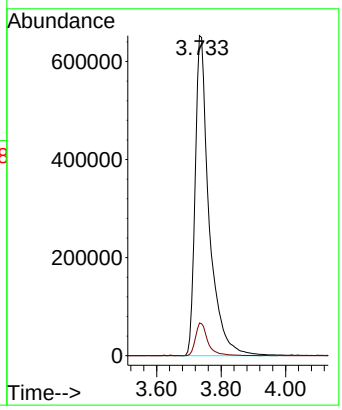


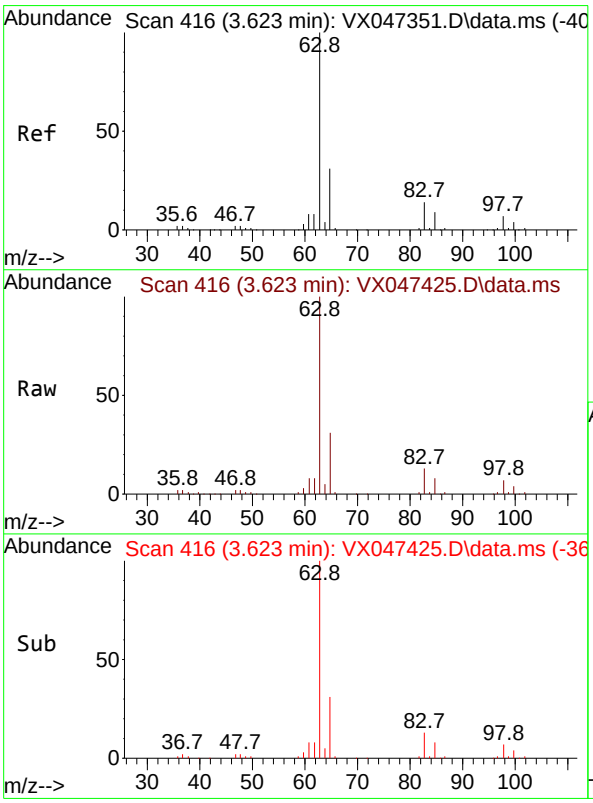
#23
Vinyl Acetate
Concen: 247.674 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1963477

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.9	11.9

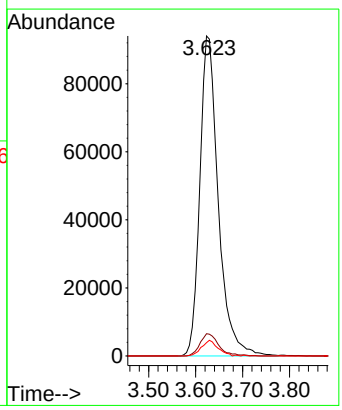


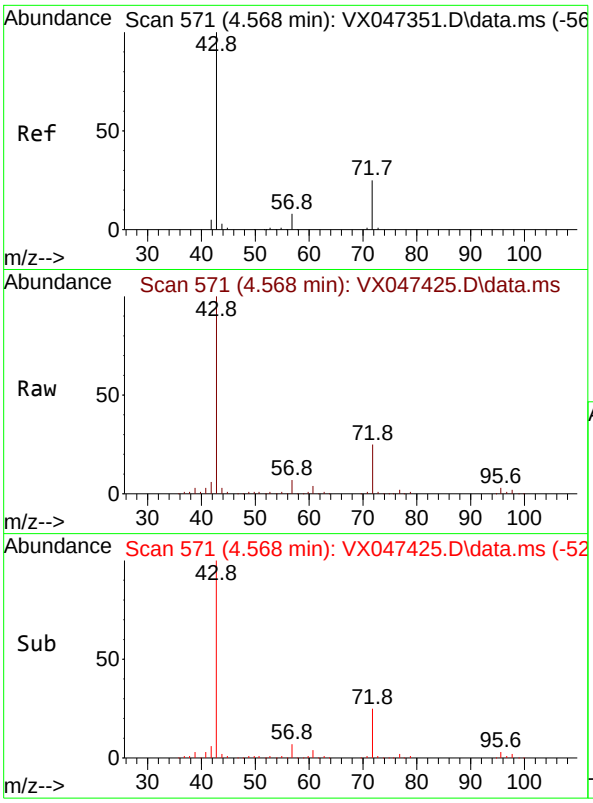


#24
1,1-Dichloroethane
Concen: 46.852 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 63 Resp: 256138

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.9
100	4.1	2.1	6.3



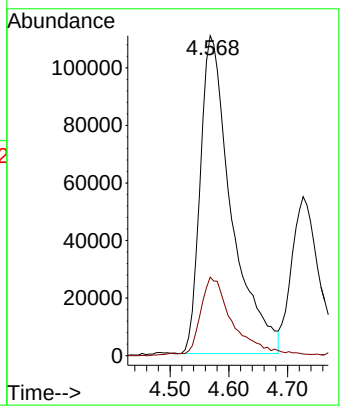


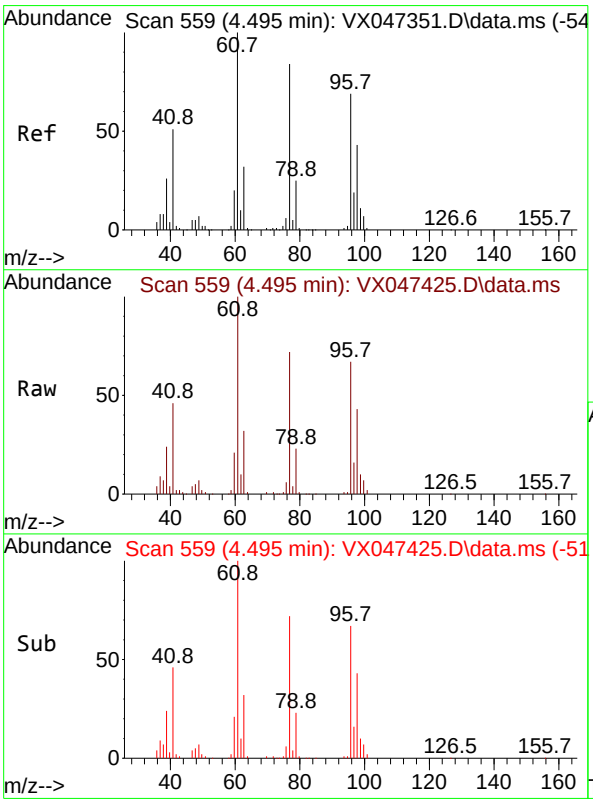
#25
2-Butanone
Concen: 263.558 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 406290

Ion	Ratio	Lower	Upper
43	100		
72	24.1	19.8	29.8

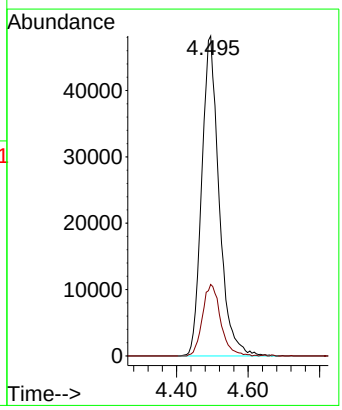


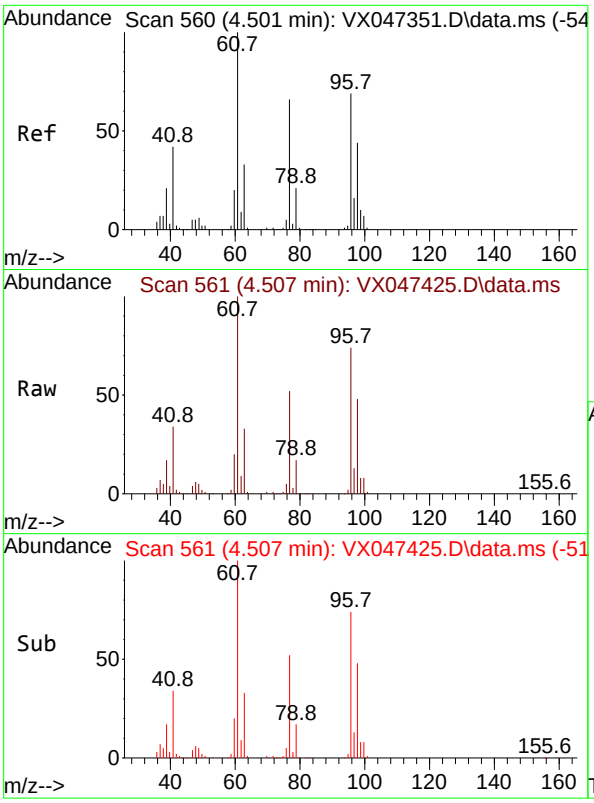


#26
2,2-Dichloropropane
Concen: 39.347 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 77 Resp: 162354

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.4	34.1



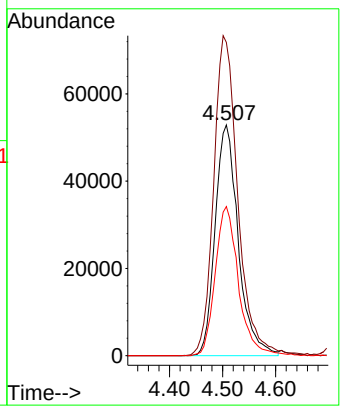


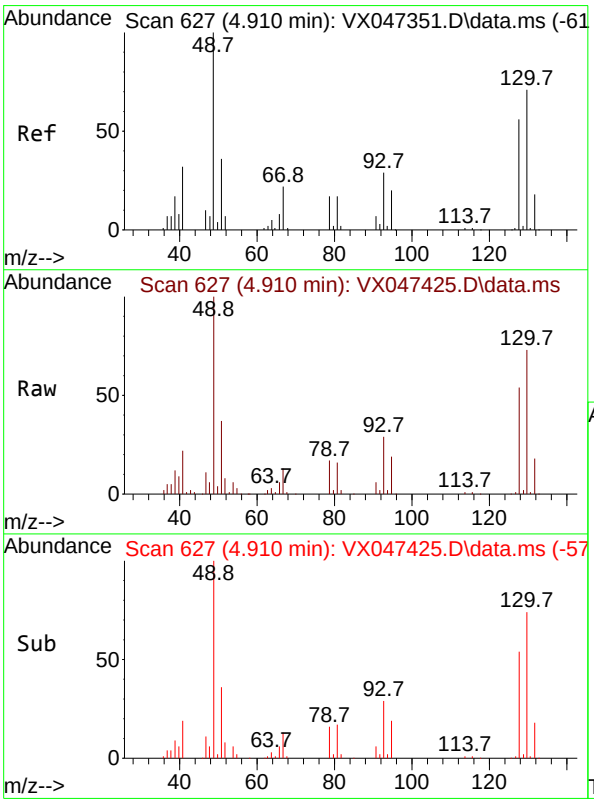
#27
cis-1,2-Dichloroethene
Concen: 46.090 ug/l
RT: 4.507 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 160514

Ion	Ratio	Lower	Upper
96	100		
61	145.1	0.0	296.6
98	65.2	0.0	130.4

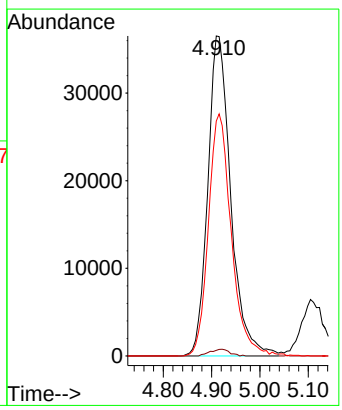


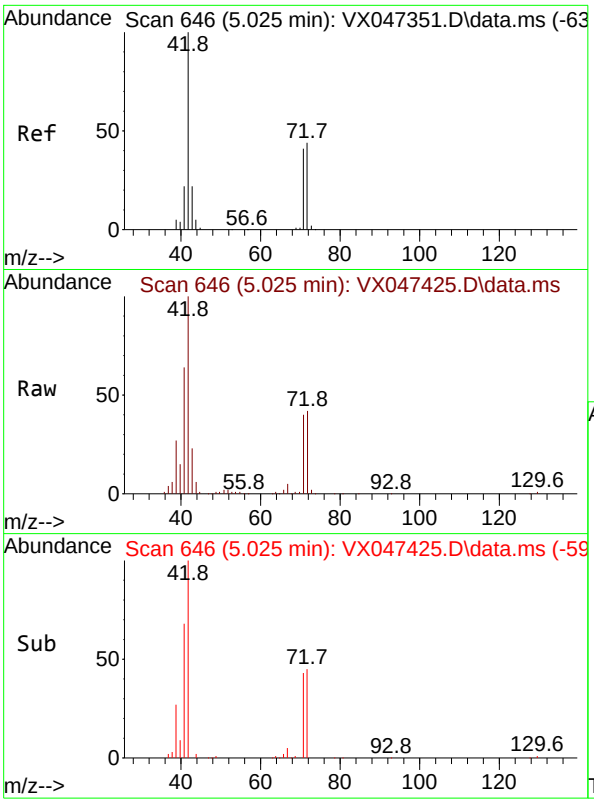


#28
Bromochloromethane
Concen: 52.943 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 49 Resp: 120442

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	75.6	59.8	89.6



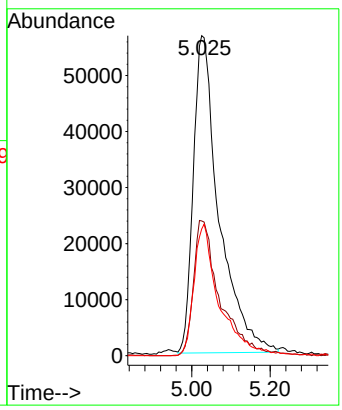


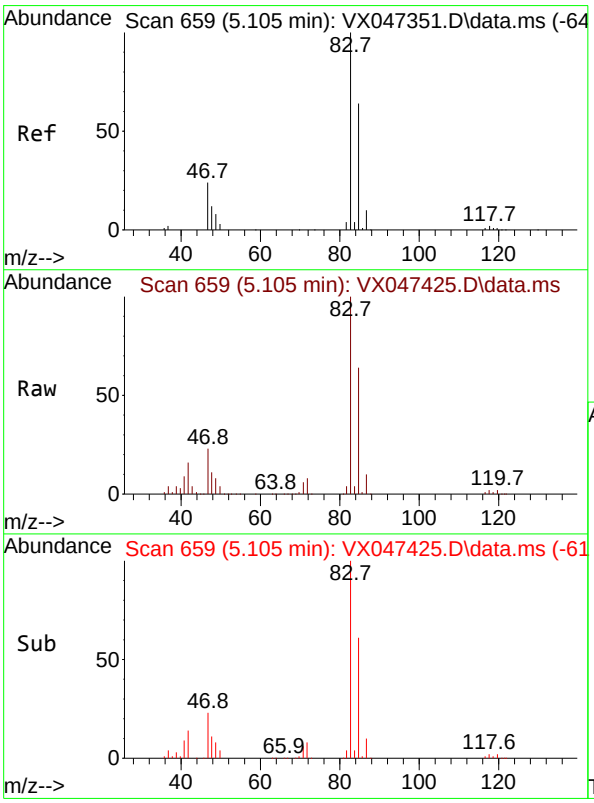
#29
Tetrahydrofuran
Concen: 259.873 ug/l
RT: 5.025 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 258930

Ion	Ratio	Lower	Upper
42	100		
72	44.3	34.6	51.8
71	40.7	32.6	49.0

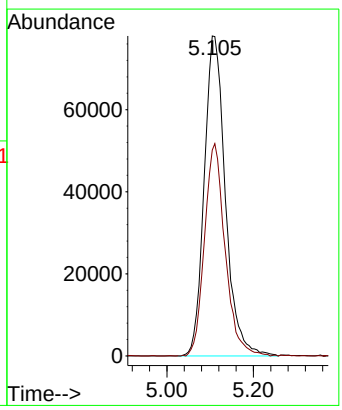


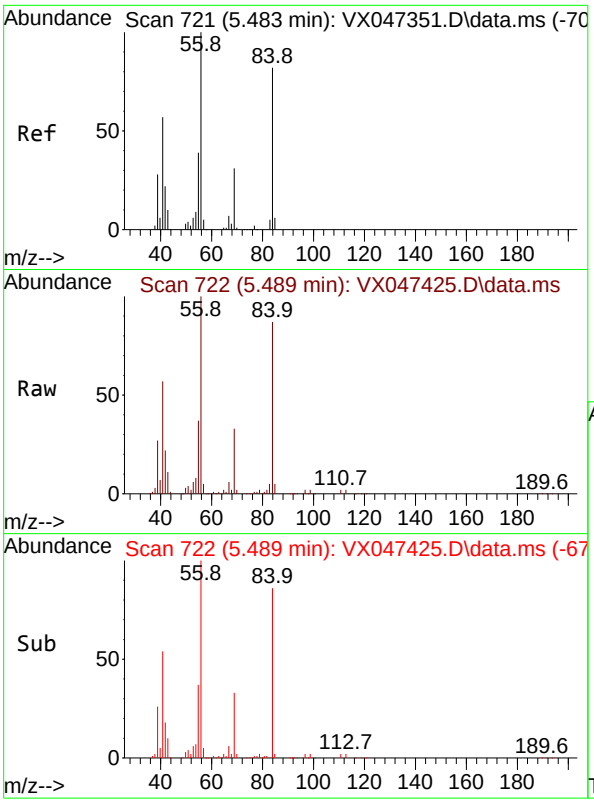


#30
Chloroform
Concen: 47.421 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 83 Resp: 264579

Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.2	76.8



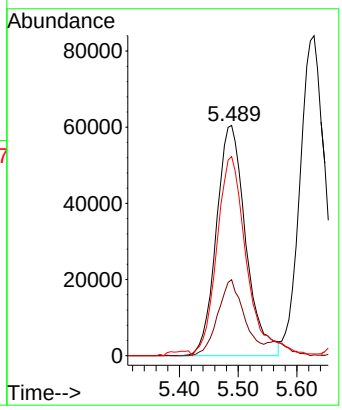


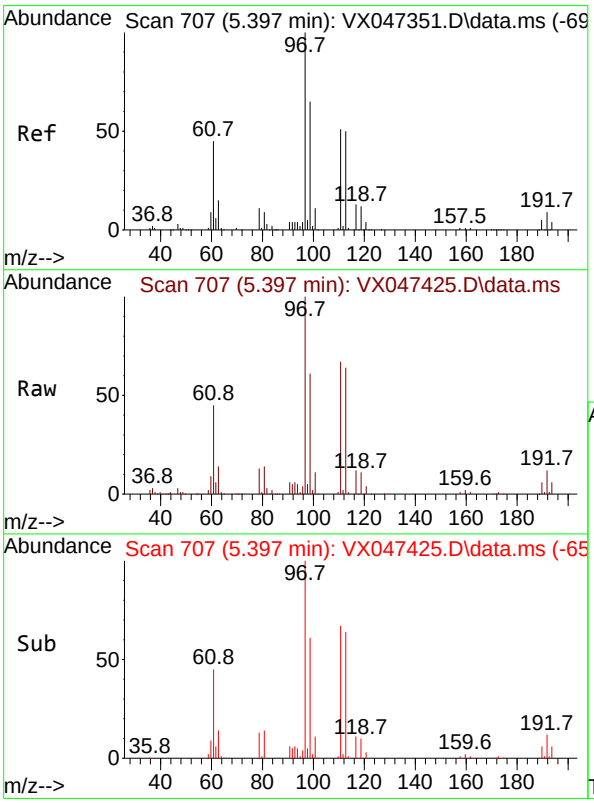
#31
Cyclohexane
Concen: 41.728 ug/l
RT: 5.489 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 210293

Ion	Ratio	Lower	Upper
56	100		
69	32.6	24.3	36.5
84	84.9	65.3	97.9

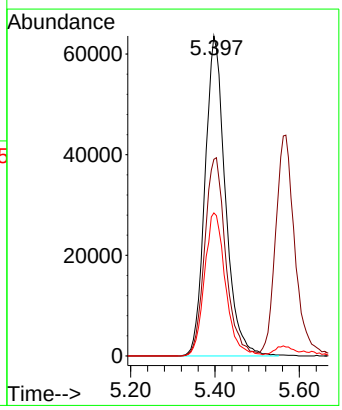


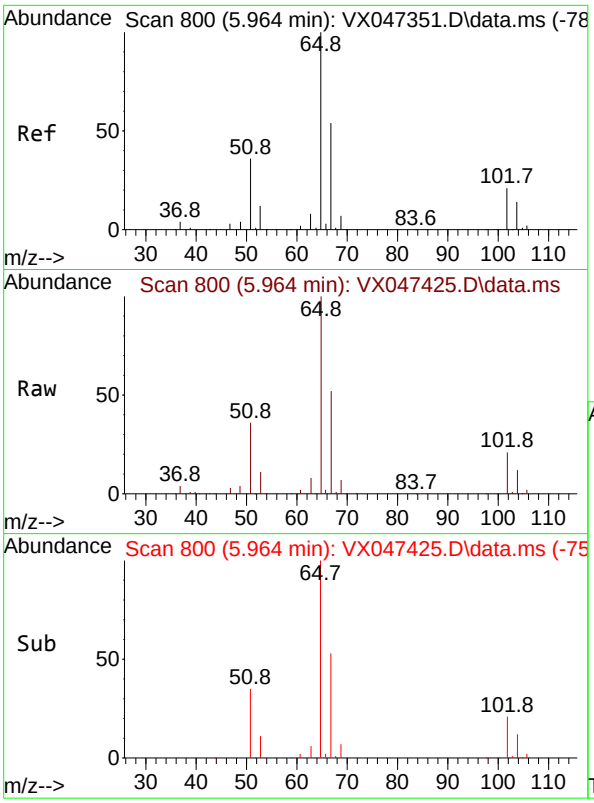


#32
1,1,1-Trichloroethane
Concen: 44.449 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 97 Resp: 213461

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.4	77.0
61	46.1	35.7	53.5



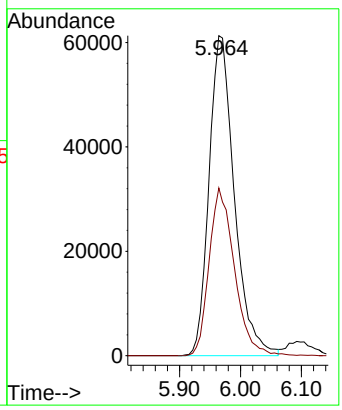


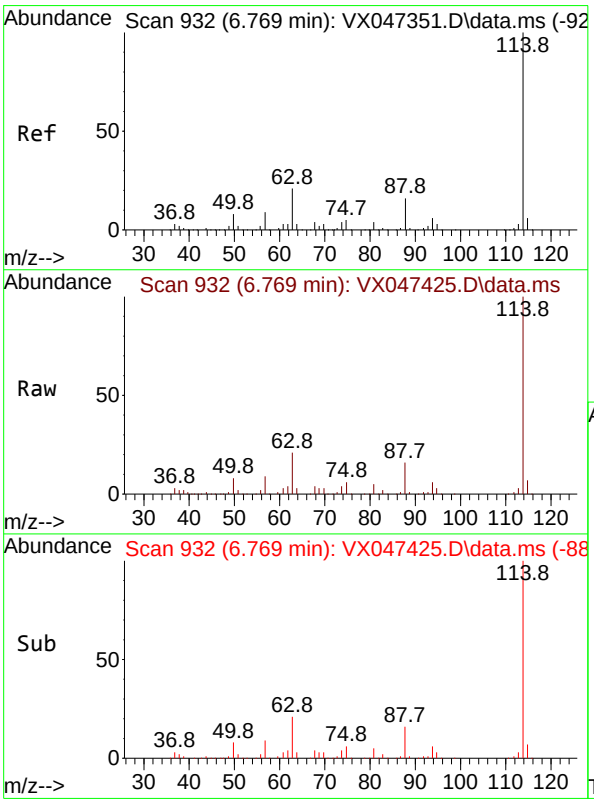
#33
1,2-Dichloroethane-d4
Concen: 56.605 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 177256

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.0

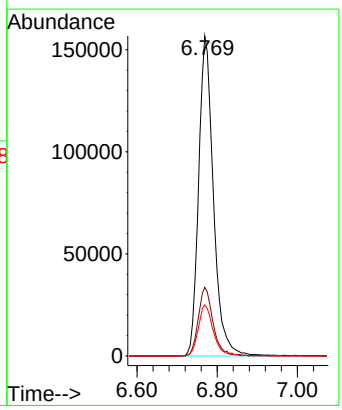


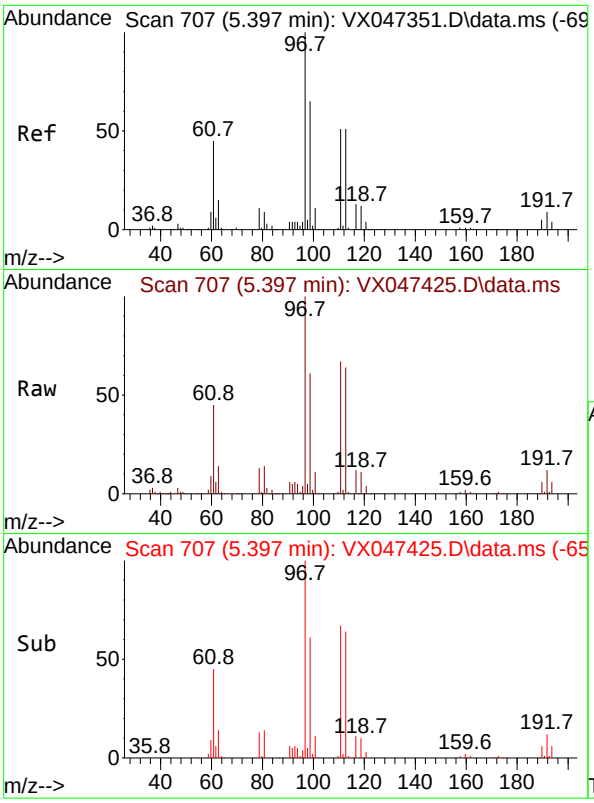


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:114 Resp: 400909

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	42.4
88	15.9	0.0	33.0



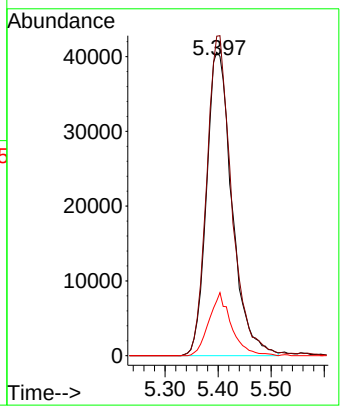


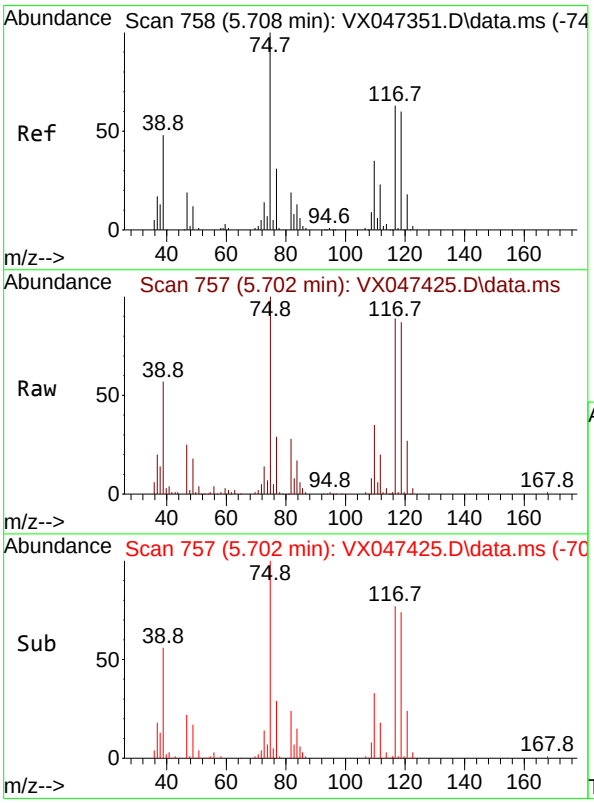
#35
Dibromofluoromethane
Concen: 51.916 ug/l
RT: 5.397 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 135082

Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.4	122.2
192	18.3	14.1	21.1

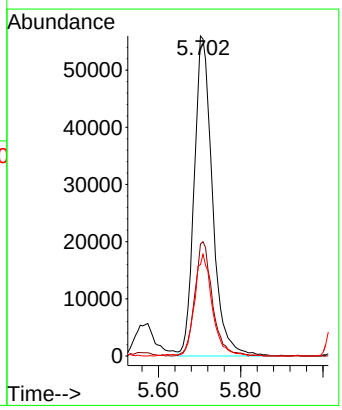


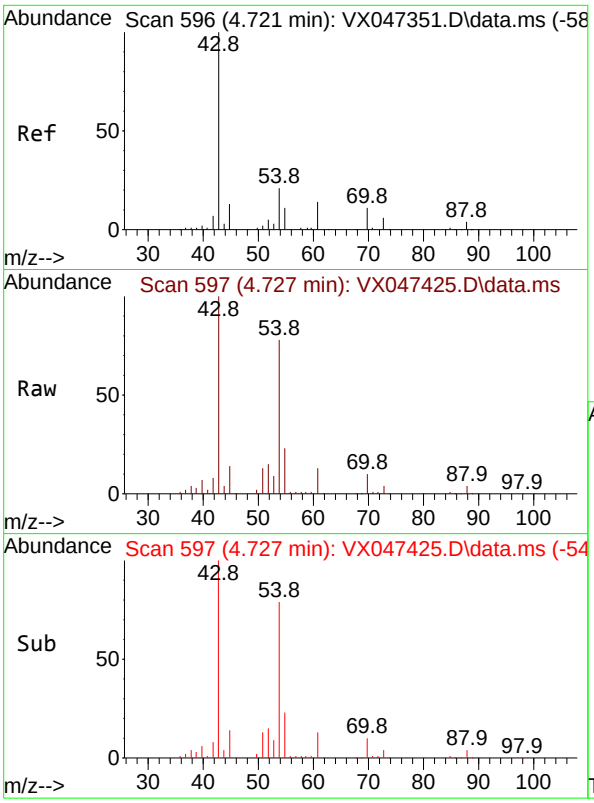


#36
1,1-Dichloropropene
Concen: 41.954 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 75 Resp: 172322

Ion	Ratio	Lower	Upper
75	100		
110	34.7	17.4	52.2
77	30.7	24.4	36.6



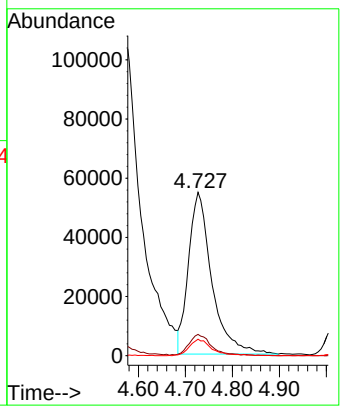


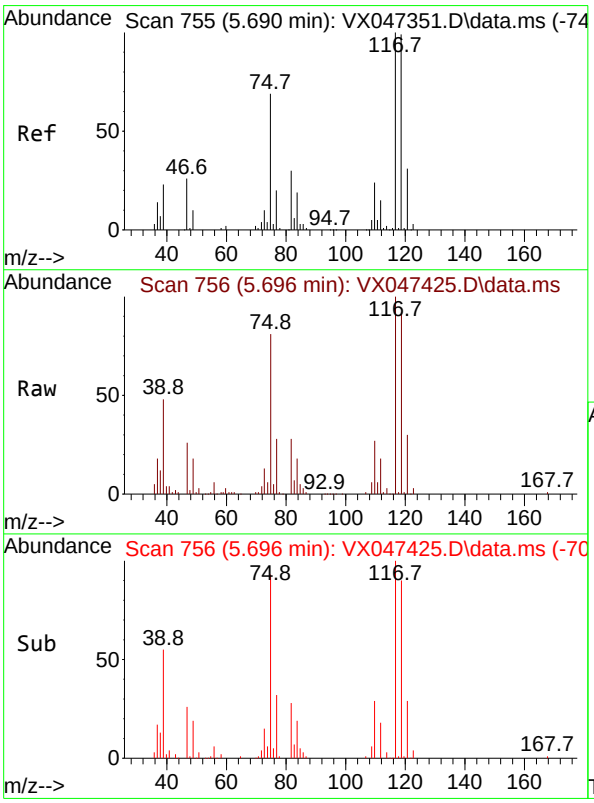
#37
Ethyl Acetate
Concen: 44.258 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 188718

Ion	Ratio	Lower	Upper
43	100		
61	12.2	9.4	14.2
70	9.7	7.0	10.6

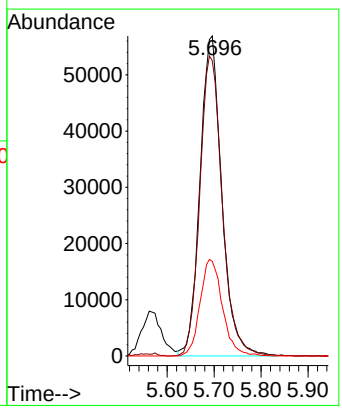


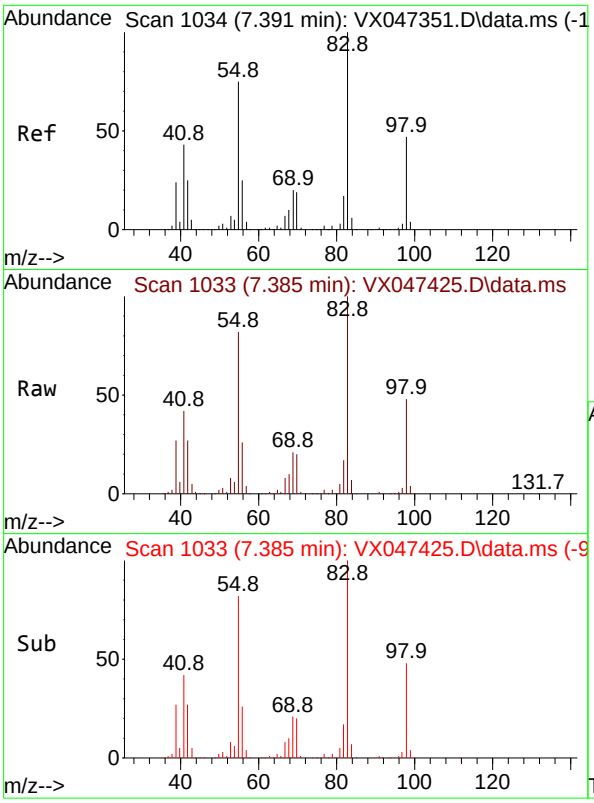


#38
Carbon Tetrachloride
Concen: 40.895 ug/l
RT: 5.696 min Scan# 756
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:117 Resp: 183554

Ion	Ratio	Lower	Upper
117	100		
119	92.1	78.5	117.7
121	29.6	24.7	37.1



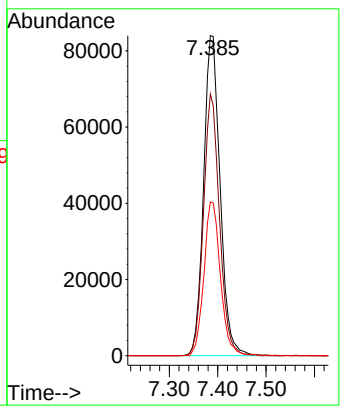


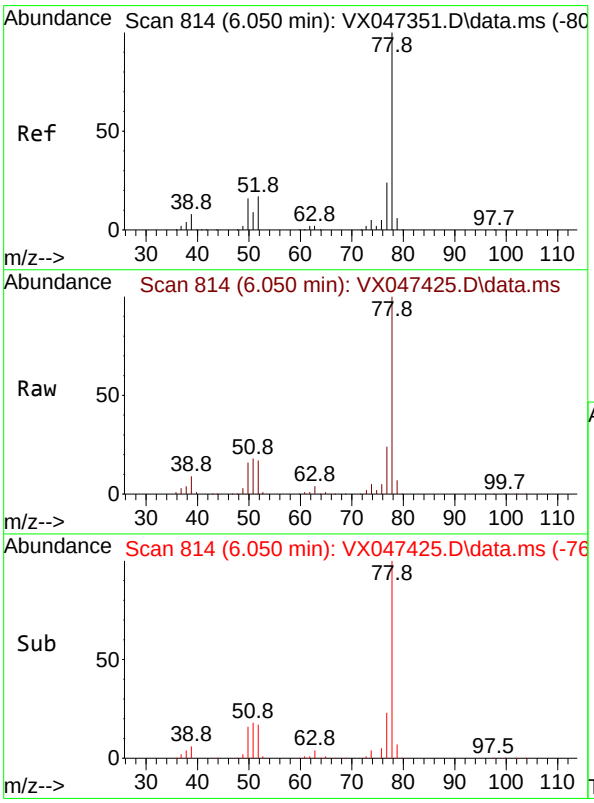
#39
Methylcyclohexane
Concen: 38.819 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 198884

Ion	Ratio	Lower	Upper
83	100		
55	81.8	60.0	90.0
98	48.1	37.2	55.8

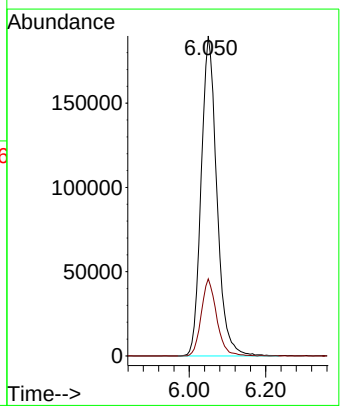


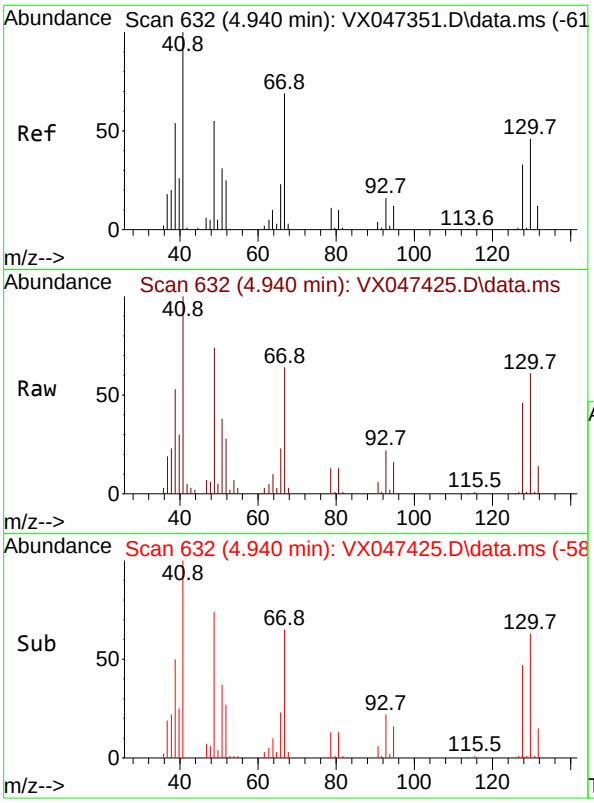


#40
Benzene
Concen: 43.949 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 78 Resp: 540313

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.4



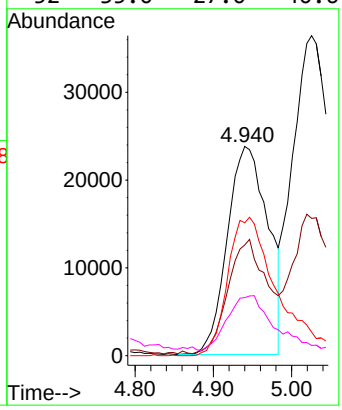


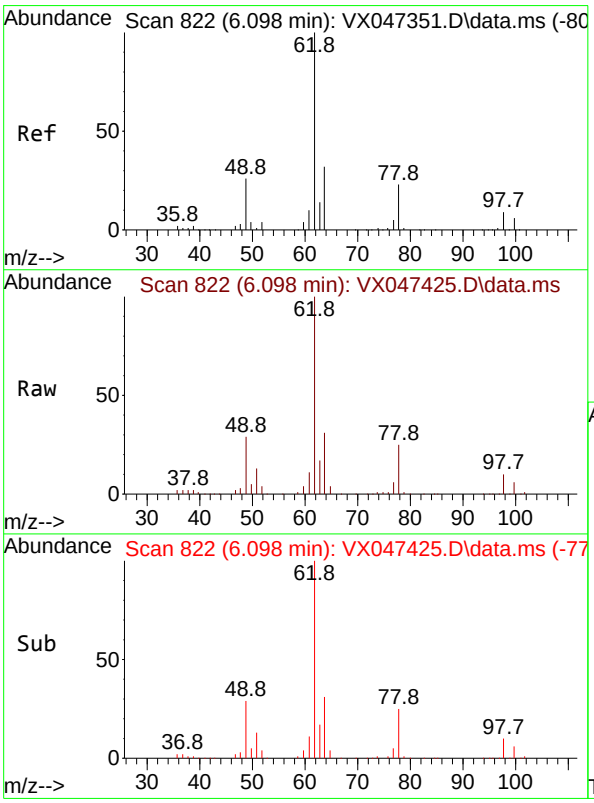
#41
Methacrylonitrile
Concen: 47.606 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 85601

Ion	Ratio	Lower	Upper
41	100		
39	52.5	45.4	68.2
67	83.2	64.0	96.0
52	35.0	27.0	40.6

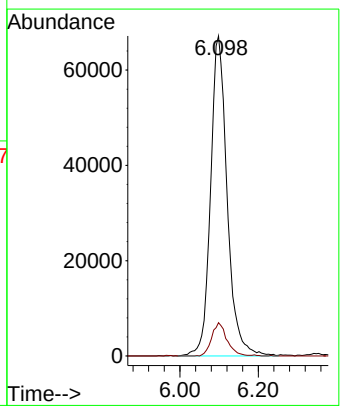


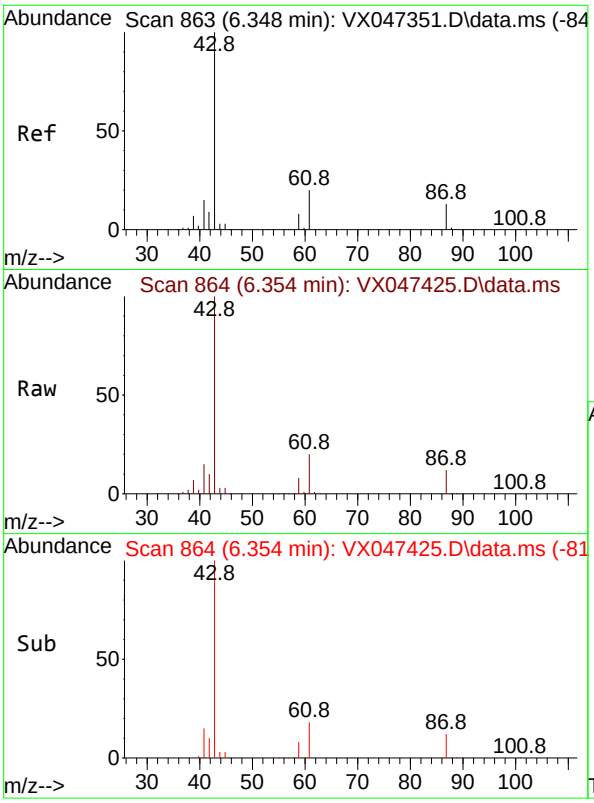


#42
1,2-Dichloroethane
Concen: 45.376 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 62 Resp: 197600

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.0



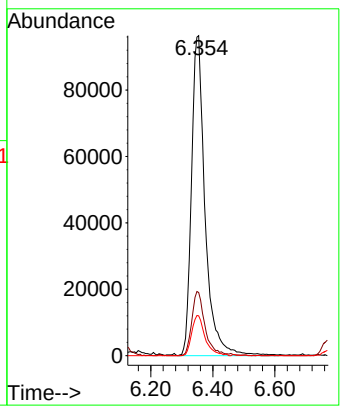


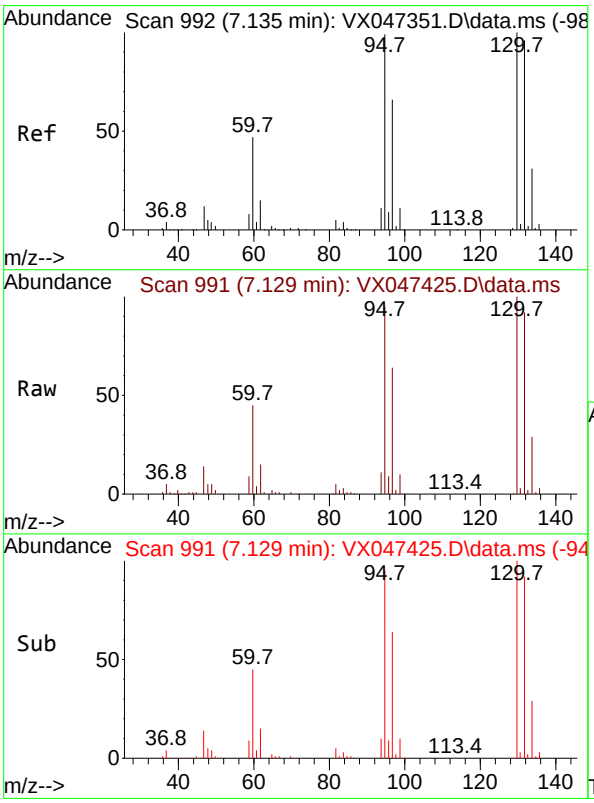
#43
Isopropyl Acetate
Concen: 47.841 ug/l
RT: 6.354 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 293062

Ion	Ratio	Lower	Upper
43	100		
61	19.7	15.4	23.0
87	12.3	10.2	15.4

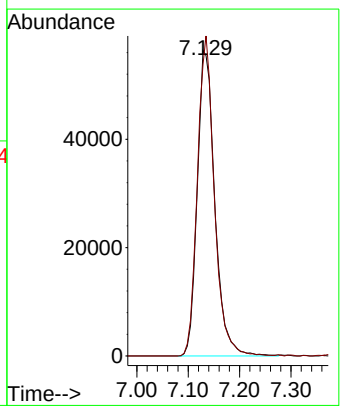


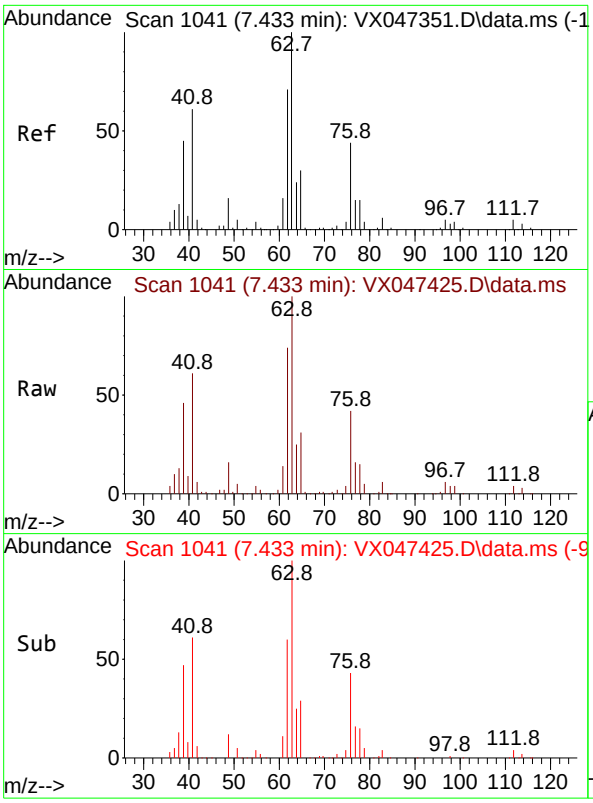


#44
Trichloroethene
Concen: 42.559 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:130 Resp: 133973

Ion	Ratio	Lower	Upper
130	100		
95	95.4	0.0	198.6



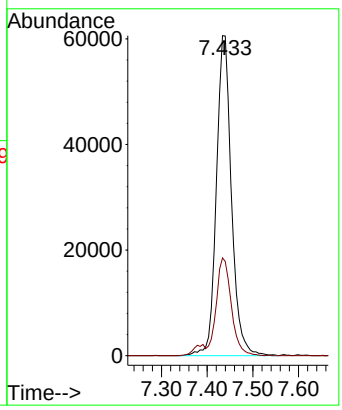


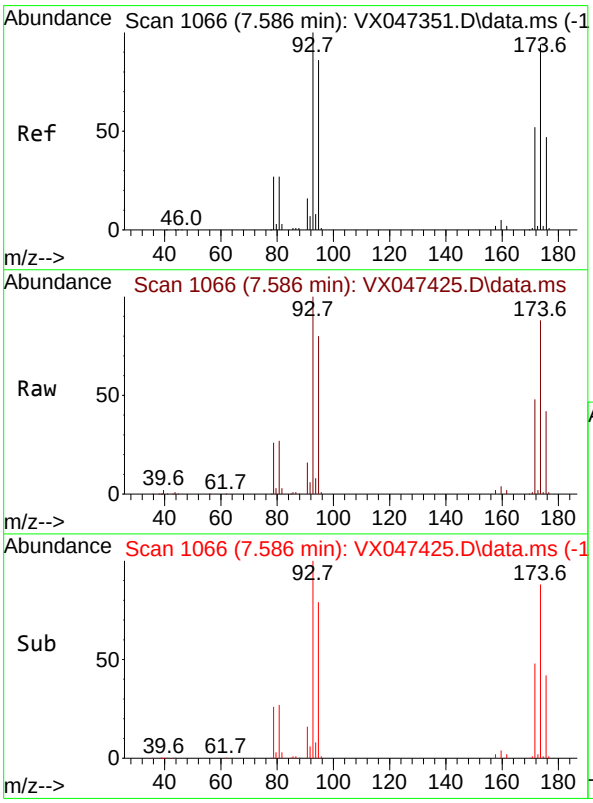
#45
1,2-Dichloropropane
Concen: 45.077 ug/l
RT: 7.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 138835

Ion	Ratio	Lower	Upper
63	100		
65	30.5	23.8	35.6

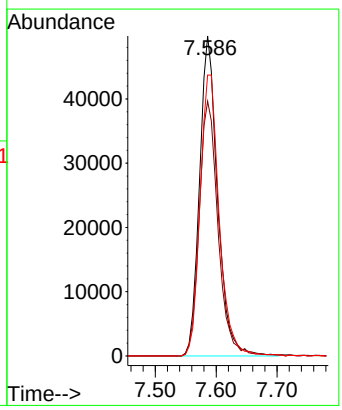


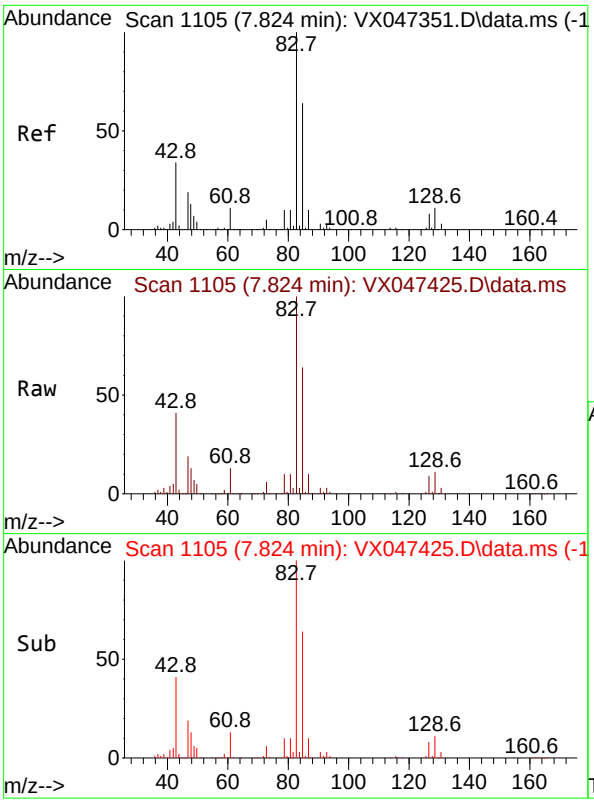


#46
Dibromomethane
Concen: 45.878 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 93 Resp: 102584

Ion	Ratio	Lower	Upper
93	100		
95	83.0	68.0	102.0
174	93.1	75.8	113.6



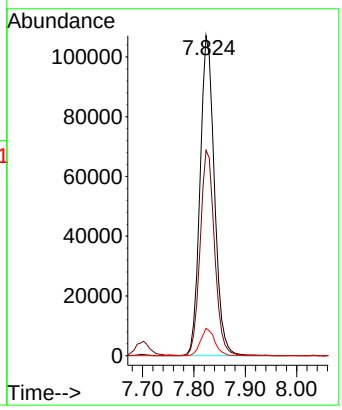


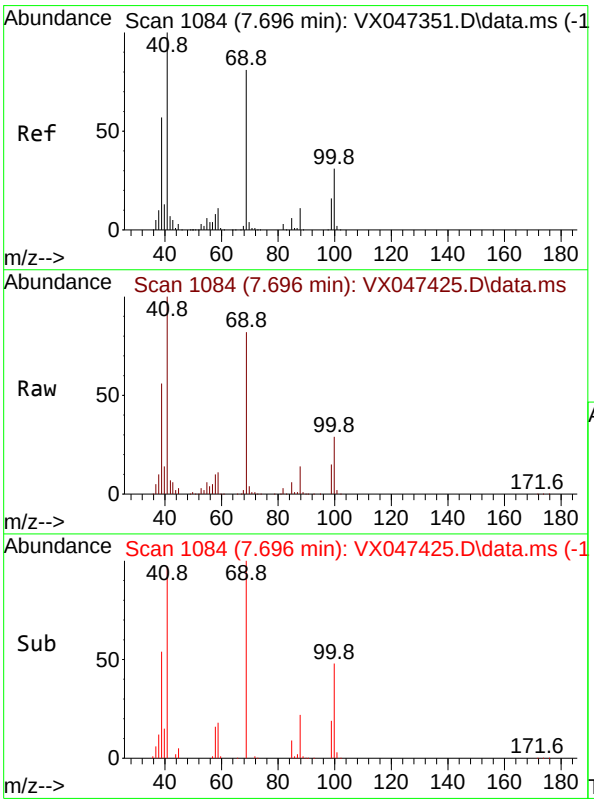
#47
Bromodichloromethane
Concen: 44.775 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 207551

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.0	76.6
127	8.5	7.0	10.4

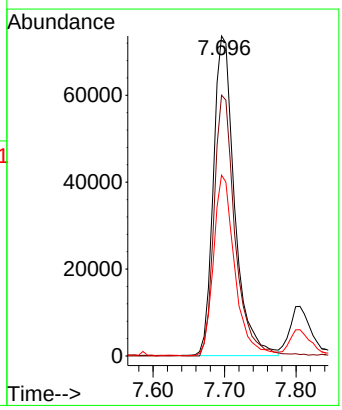


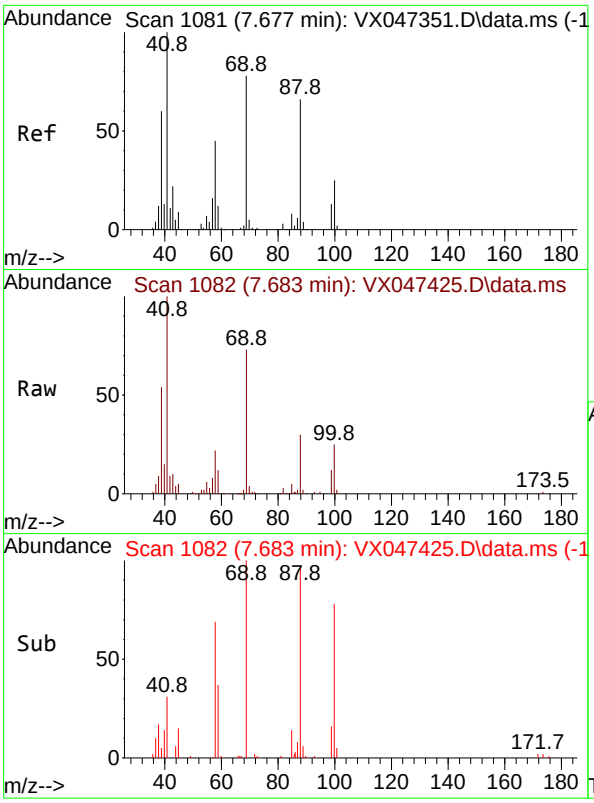


#48
Methyl methacrylate
Concen: 47.741 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 41 Resp: 151800

Ion	Ratio	Lower	Upper
41	100		
69	81.0	65.0	97.4
39	56.8	45.7	68.5



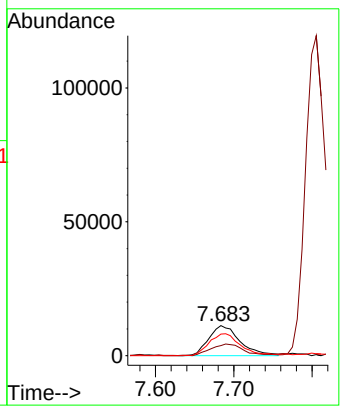


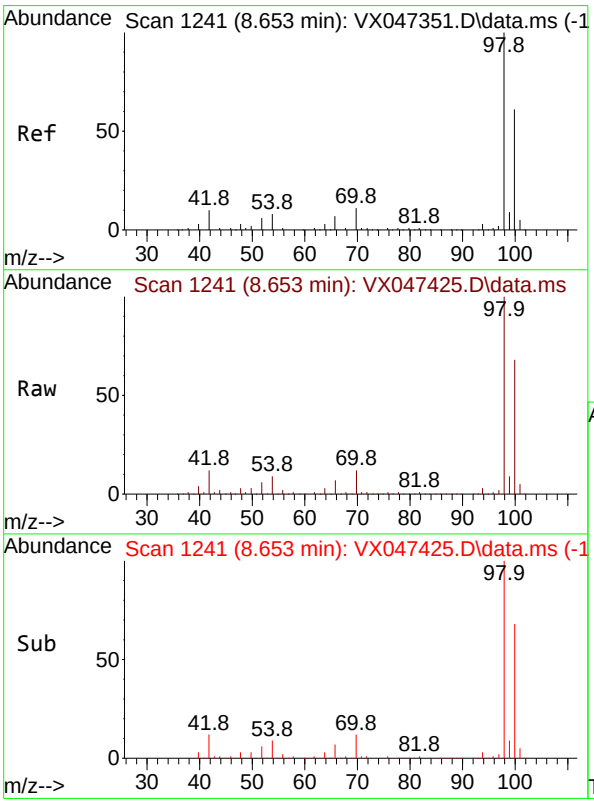
#49
1,4-Dioxane
Concen: 1010.025 ug/l
RT: 7.683 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 31220

Ion	Ratio	Lower	Upper
88	100		
43	39.6	32.4	48.6
58	73.3	56.9	85.3

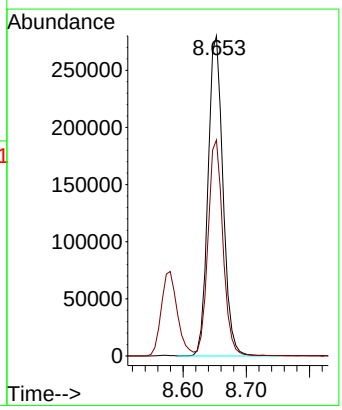


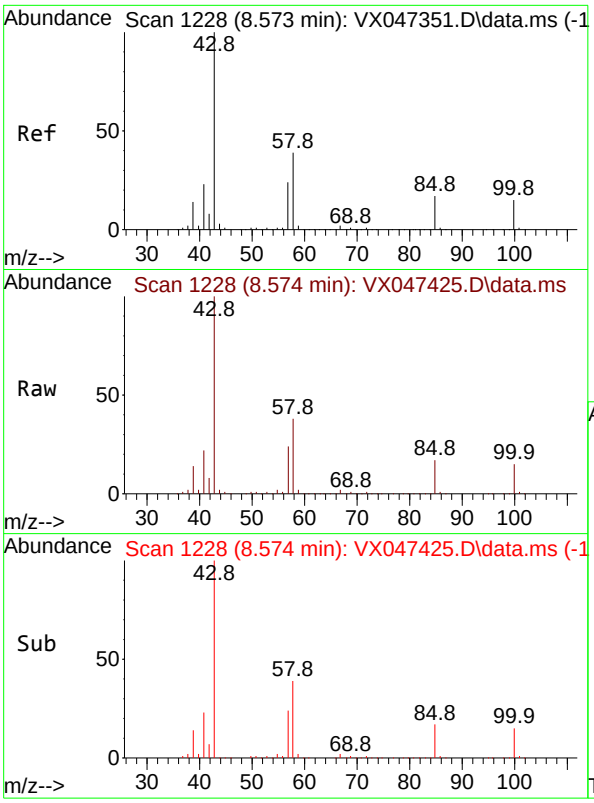


#50
Toluene-d8
Concen: 49.526 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 98 Resp: 460594

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.9	80.9



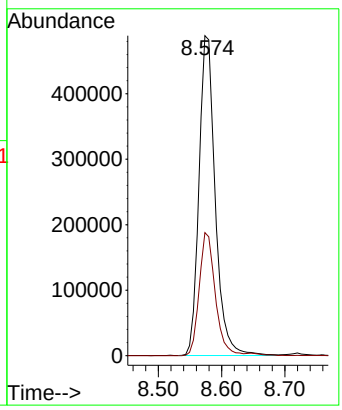


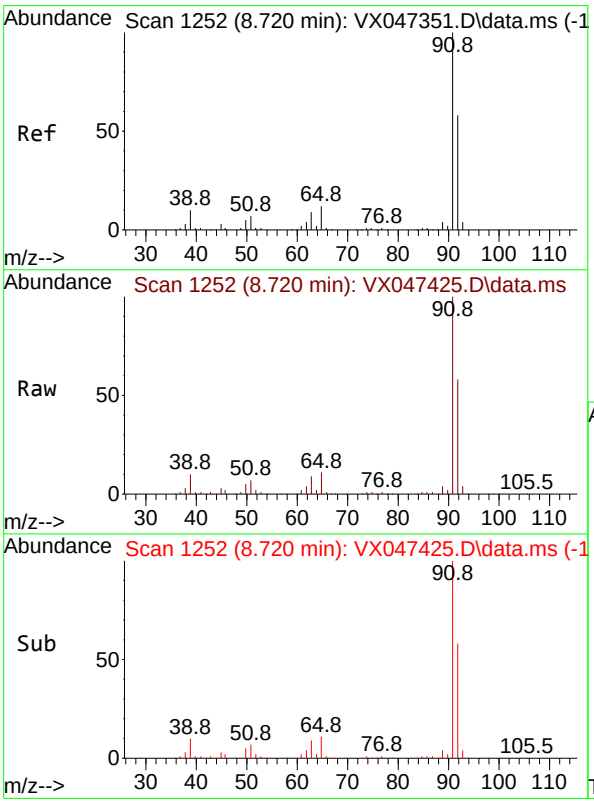
#51
4-Methyl-2-Pentanone
Concen: 248.529 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 876089

Ion	Ratio	Lower	Upper
43	100		
58	38.0	31.2	46.8

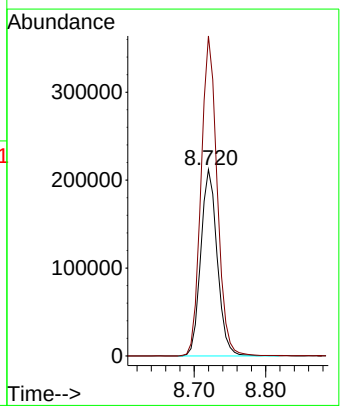


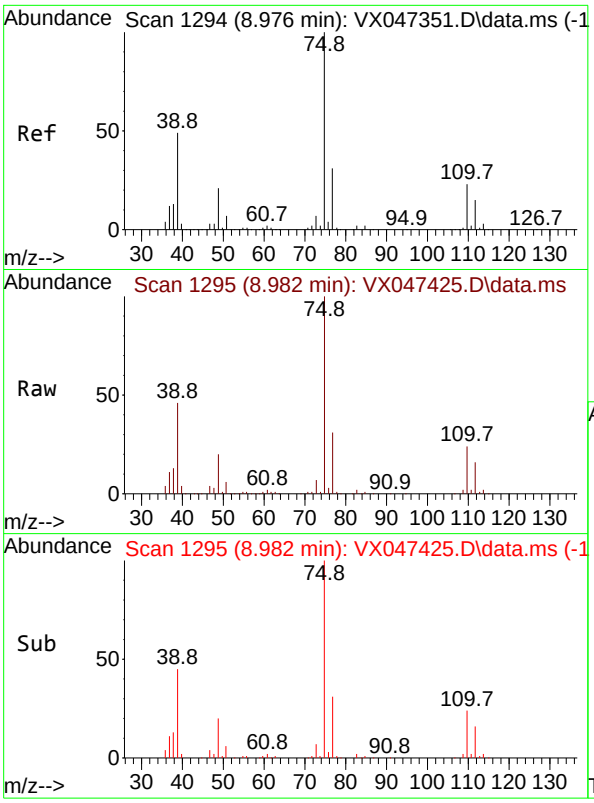


#52
Toluene
Concen: 44.591 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 92 Resp: 338753

Ion	Ratio	Lower	Upper
92	100		
91	168.6	136.3	204.5



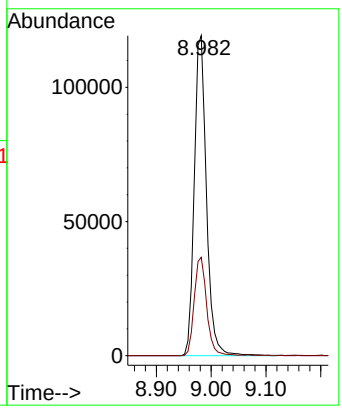


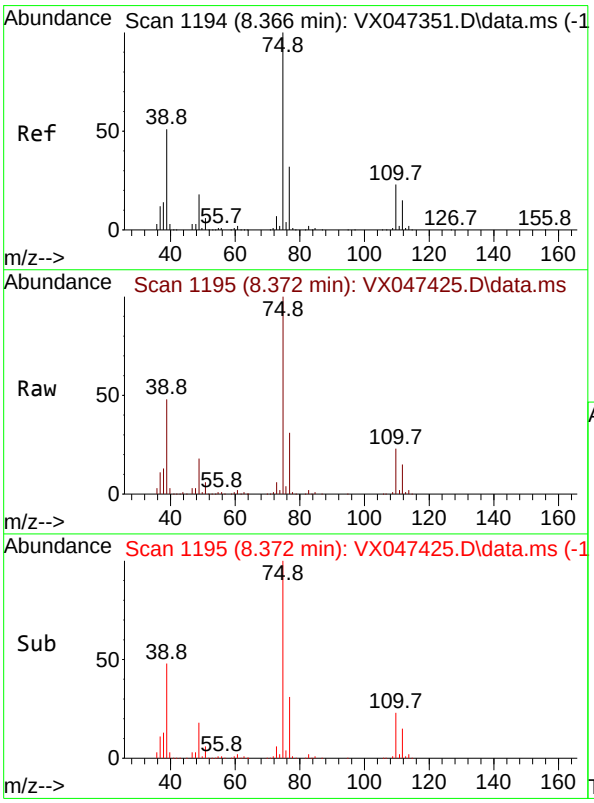
#53
t-1,3-Dichloropropene
Concen: 45.727 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 184995

Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.7	37.1

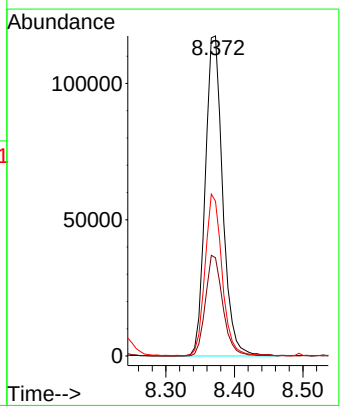


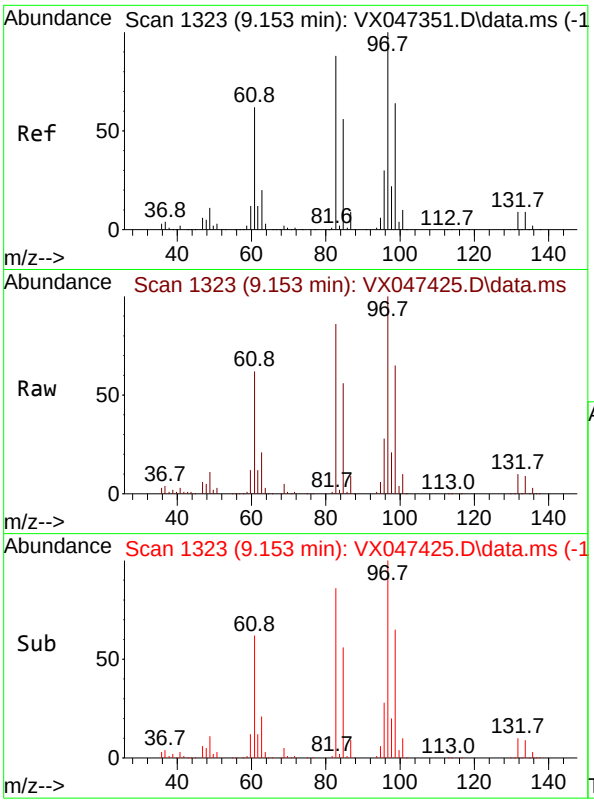


#54
cis-1,3-Dichloropropene
Concen: 45.391 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 75 Resp: 207853

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.6	38.4
39	48.2	40.9	61.3



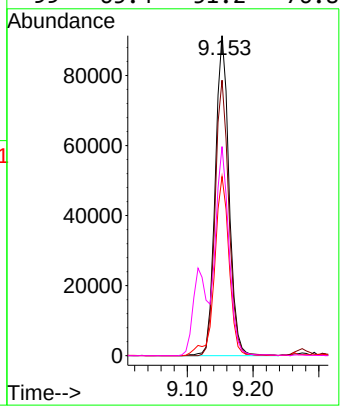


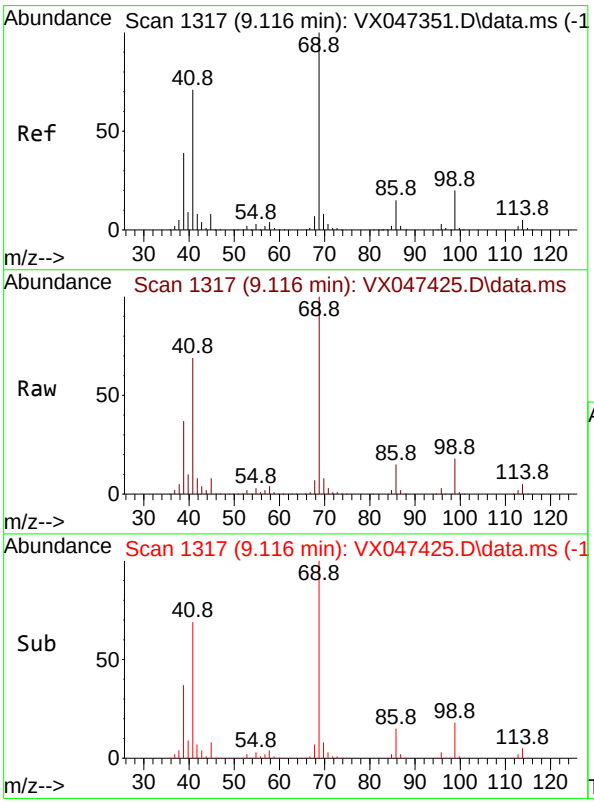
#55
1,1,2-Trichloroethane
Concen: 46.352 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 133696

Ion	Ratio	Lower	Upper
97	100		
83	86.1	70.6	106.0
85	56.0	44.7	67.1
99	65.4	51.2	76.8

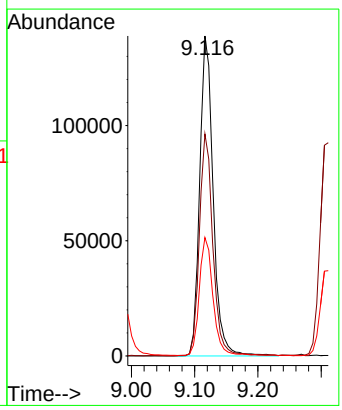


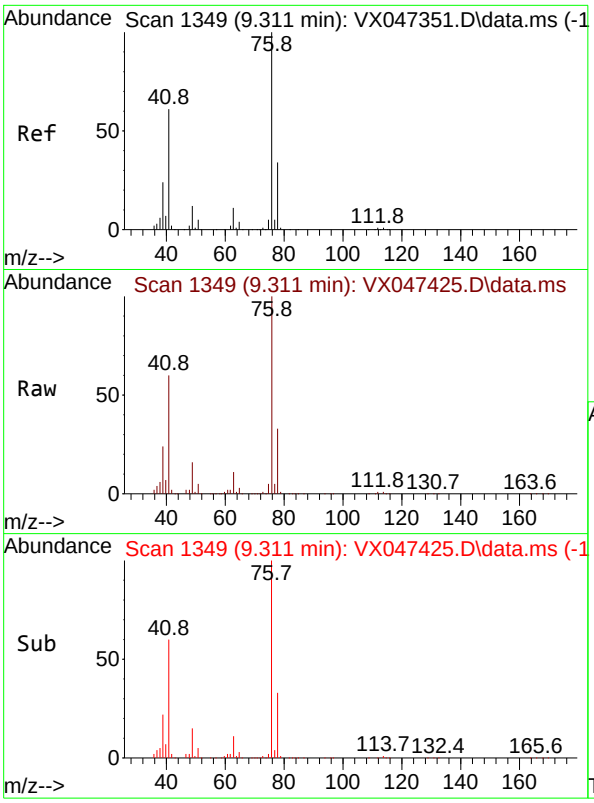


#56
Ethyl methacrylate
Concen: 48.508 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 69 Resp: 206281

Ion	Ratio	Lower	Upper
69	100		
41	69.7	55.3	82.9
39	37.9	30.2	45.2



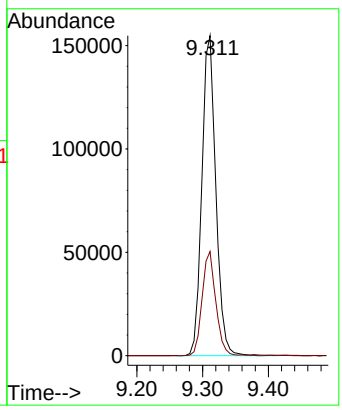


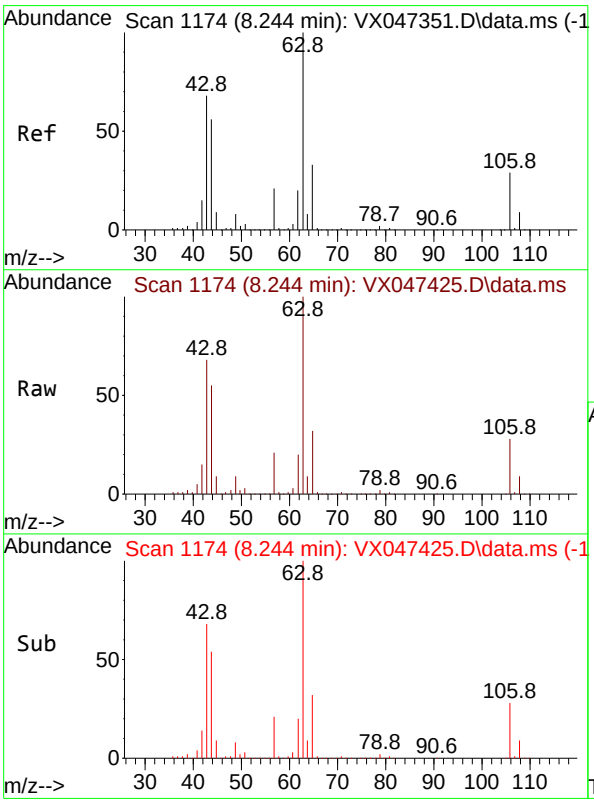
#57
1,3-Dichloropropane
Concen: 46.532 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 228701

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.2	39.2

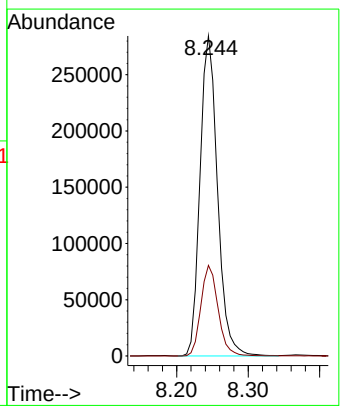


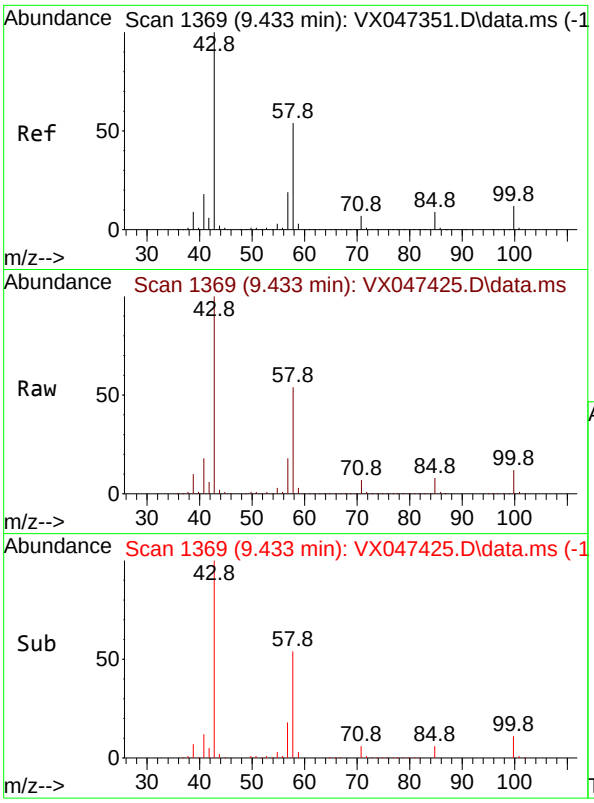


#58
2-Chloroethyl Vinyl ether
Concen: 238.311 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 63 Resp: 483102

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.8	34.2



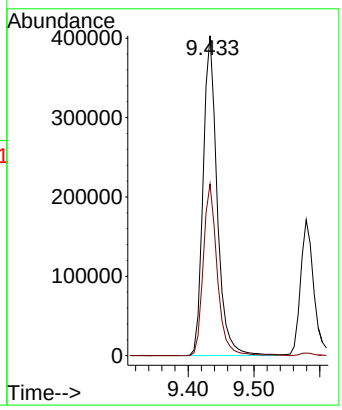


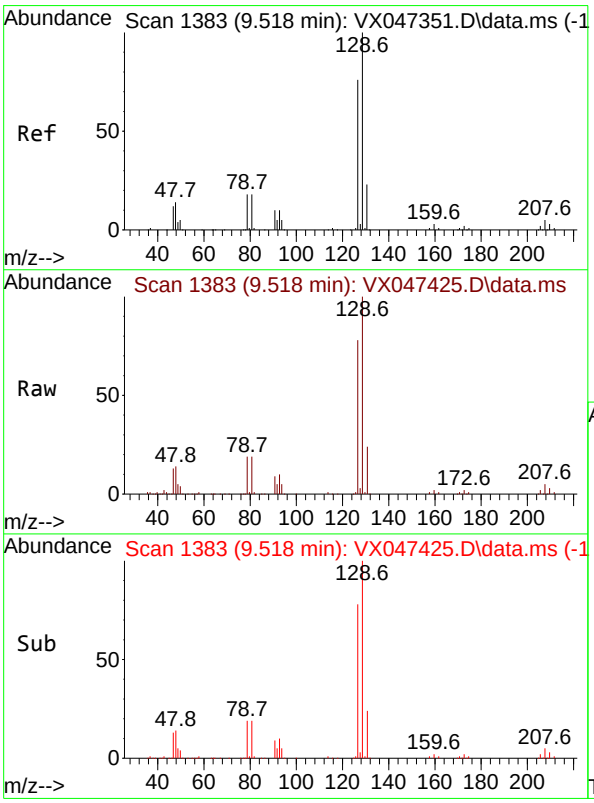
#59
2-Hexanone
Concen: 245.394 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 598364

Ion	Ratio	Lower	Upper
43	100		
58	53.6	26.9	80.7

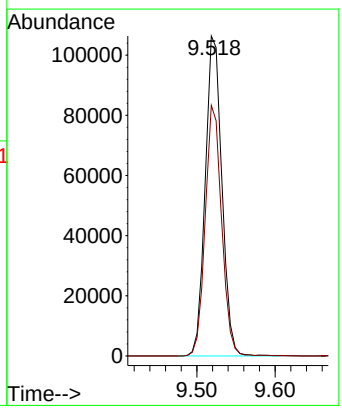


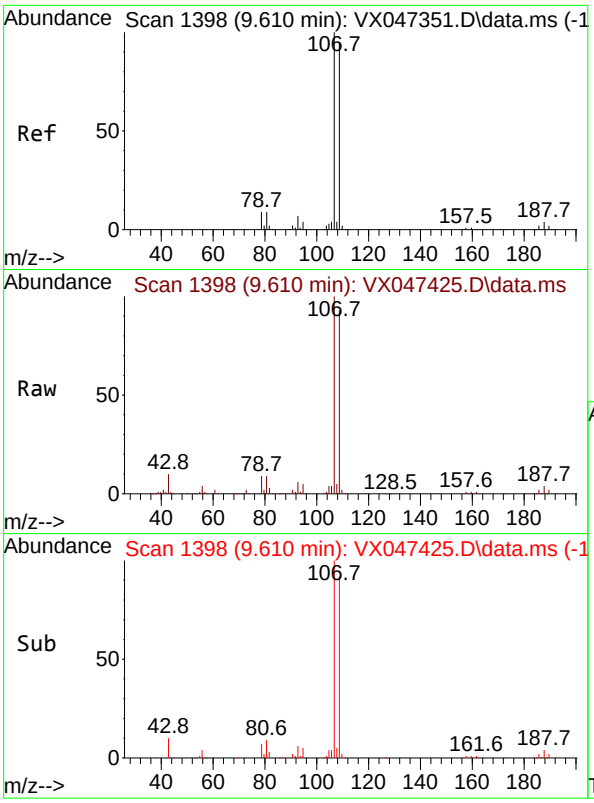


#60
Dibromochloromethane
Concen: 45.703 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:129 Resp: 156660

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.9	116.6



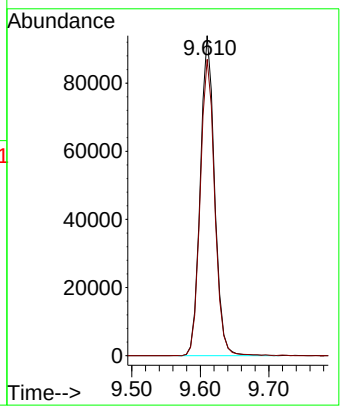


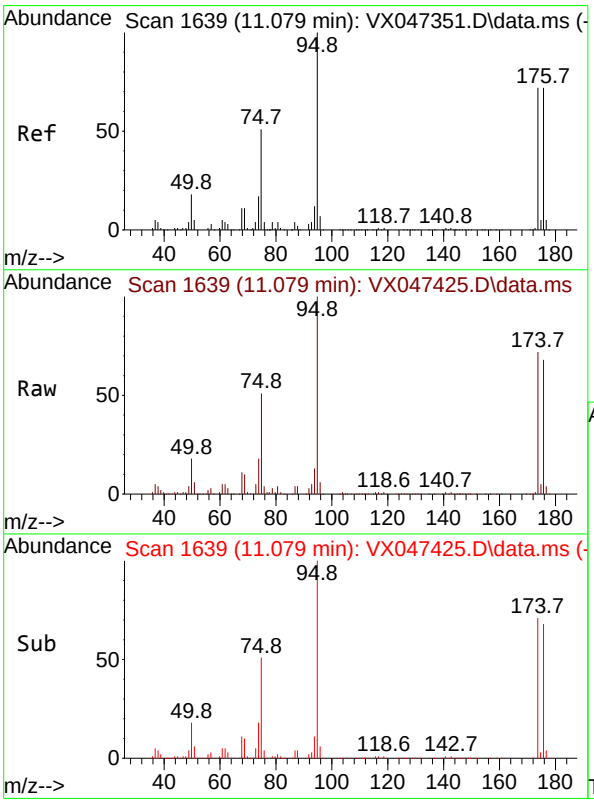
#61
1,2-Dibromoethane
Concen: 45.823 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 136293

Ion	Ratio	Lower	Upper
107	100		
109	93.9	76.2	114.2

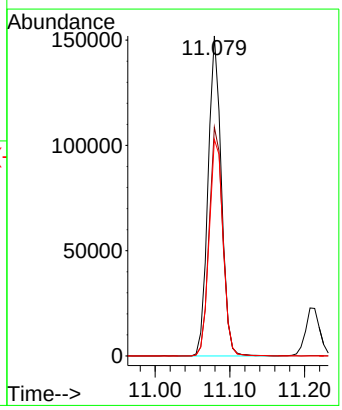


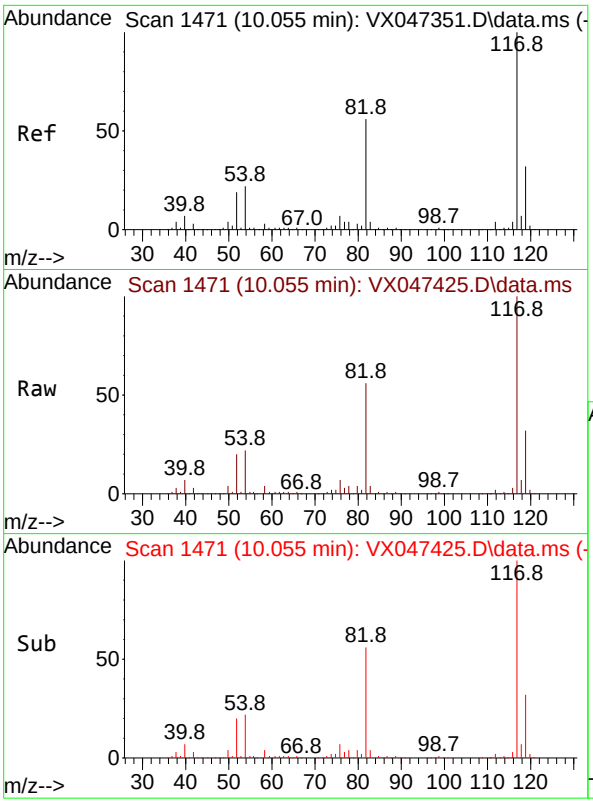


#62
4-Bromofluorobenzene
Concen: 54.662 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 95 Resp: 187594

Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	148.0
176	71.0	0.0	145.4



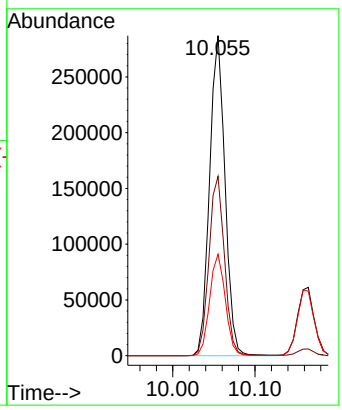


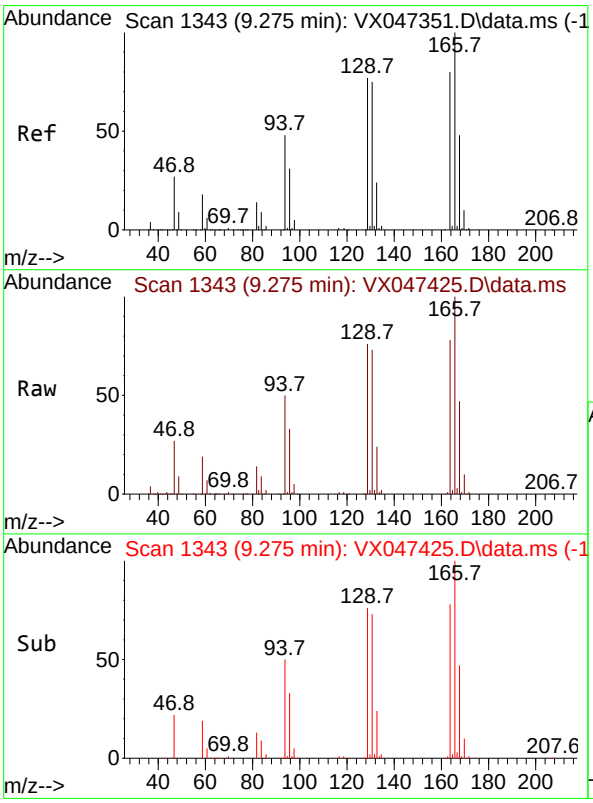
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 374153

Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.0	67.4
119	31.7	25.8	38.8

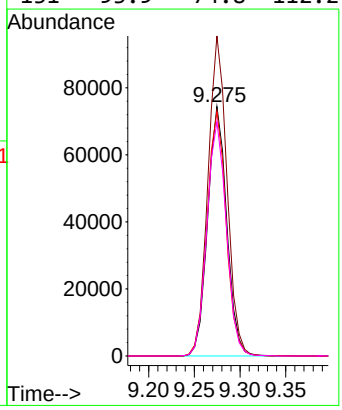


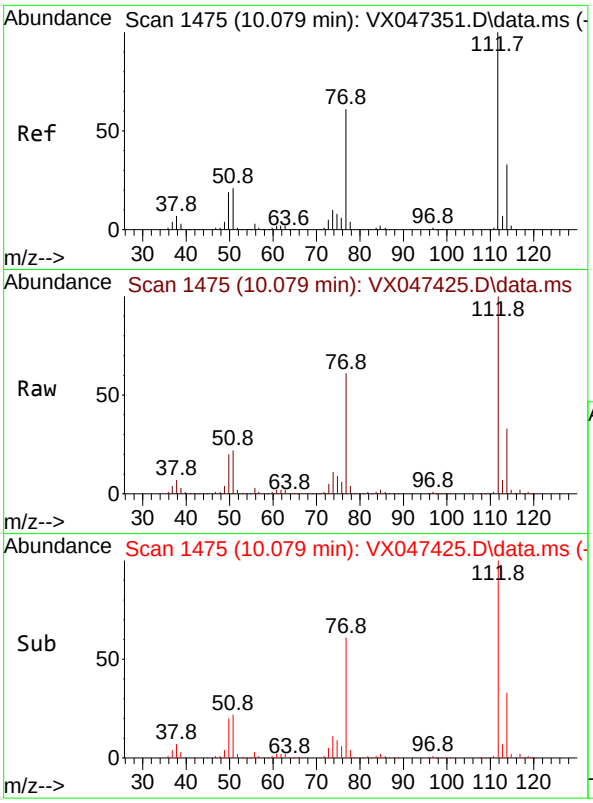


#64
Tetrachloroethene
Concen: 39.799 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:164 Resp: 107708

Ion	Ratio	Lower	Upper
164	100		
166	128.3	100.3	150.5
129	97.9	77.7	116.5
131	93.9	74.8	112.2



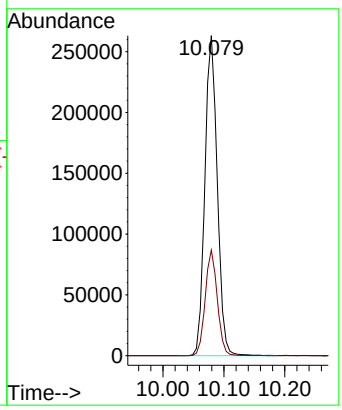


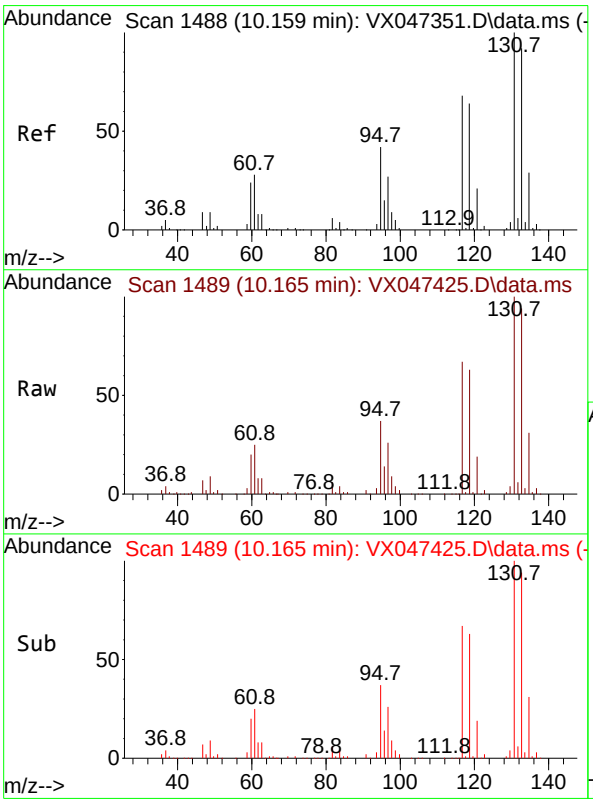
#65
Chlorobenzene
Concen: 41.820 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 371836

Ion	Ratio	Lower	Upper
112	100		
114	33.0	26.4	39.6

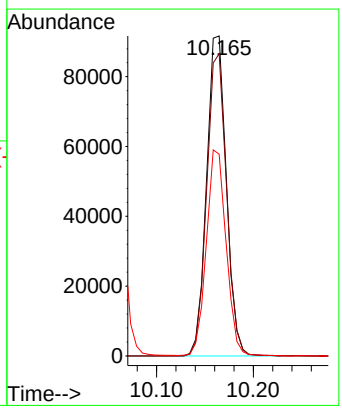


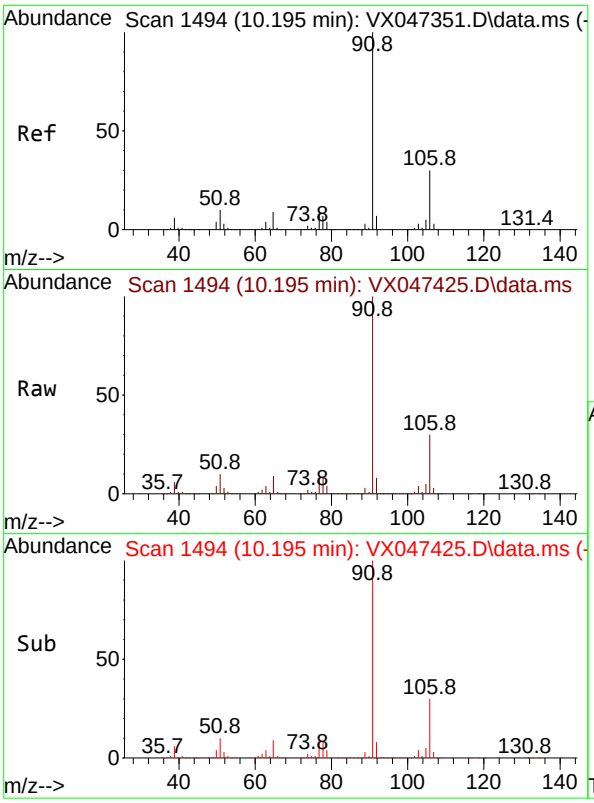


#66
1,1,1,2-Tetrachloroethane
Concen: 43.404 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:131 Resp: 130456

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.6	142.9
119	64.7	32.3	96.8



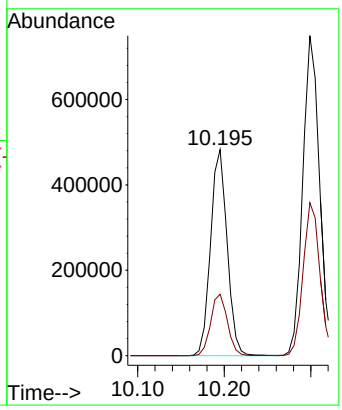


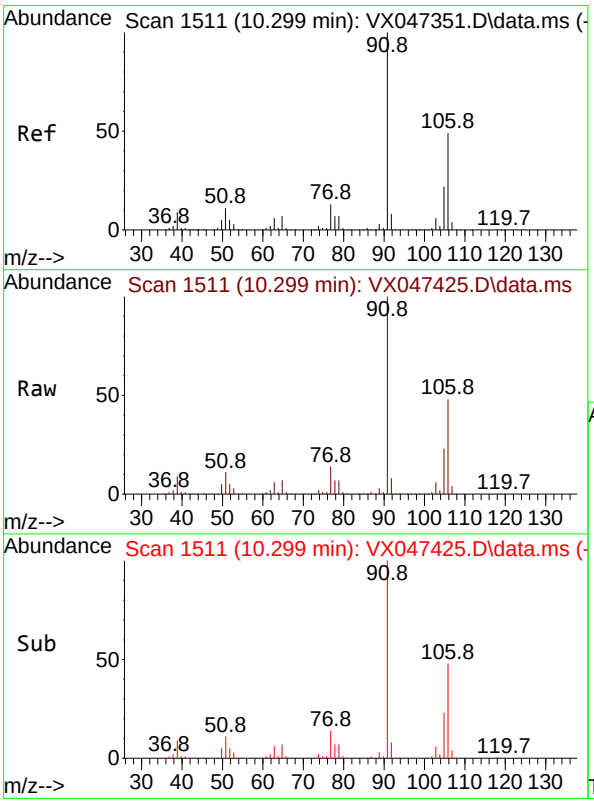
#67
Ethyl Benzene
Concen: 41.960 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 642123

Ion	Ratio	Lower	Upper
91	100		
106	29.8	24.4	36.6

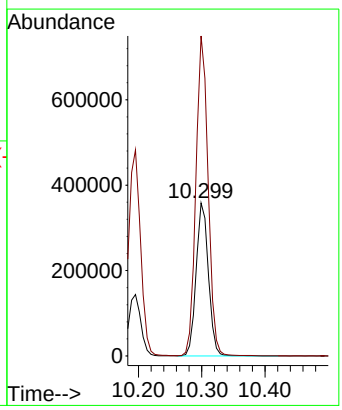


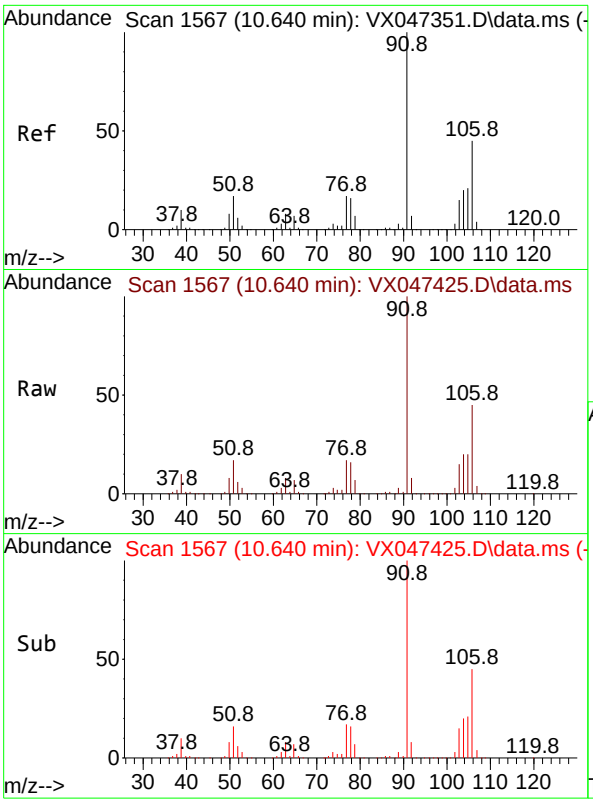


#68
m/p-Xylenes
Concen: 85.114 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:106 Resp: 485680

Ion	Ratio	Lower	Upper
106	100		
91	207.6	164.7	247.1



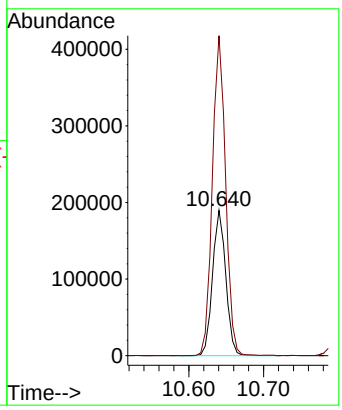


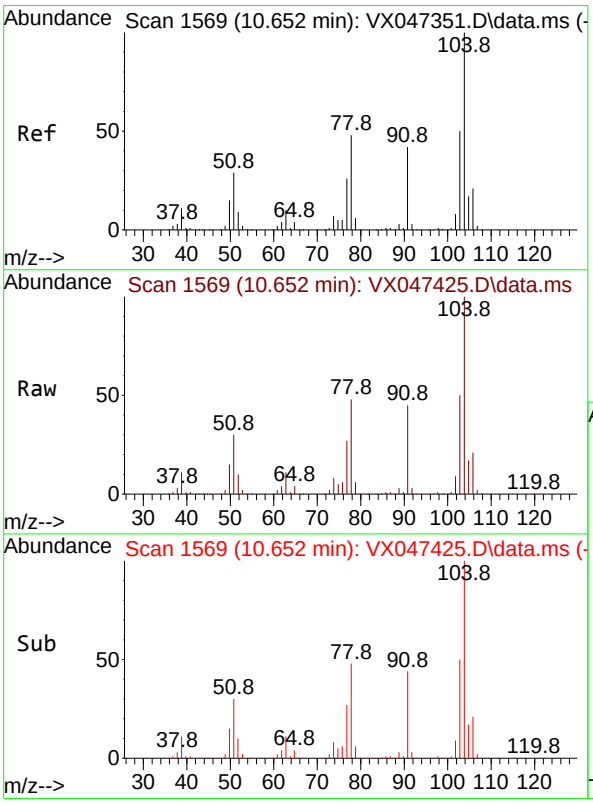
#69
o-Xylene
Concen: 42.669 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 234310

Ion	Ratio	Lower	Upper
106	100		
91	220.1	110.6	331.8

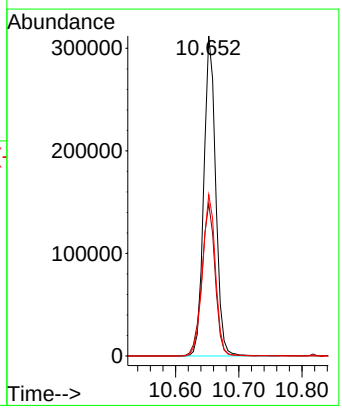


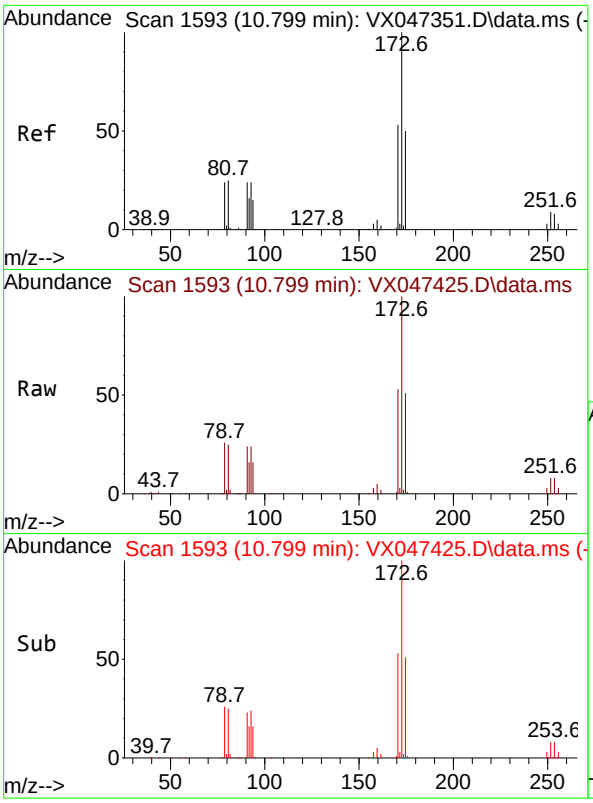


#70
Styrene
Concen: 44.167 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:104 Resp: 409804

Ion	Ratio	Lower	Upper
104	100		
78	52.8	41.8	62.8
103	54.8	43.6	65.4



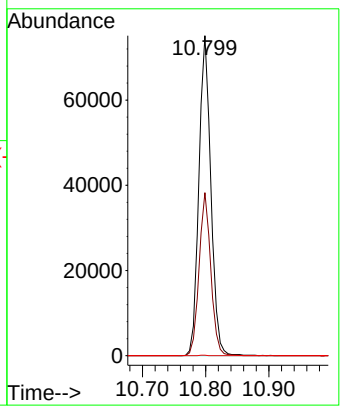


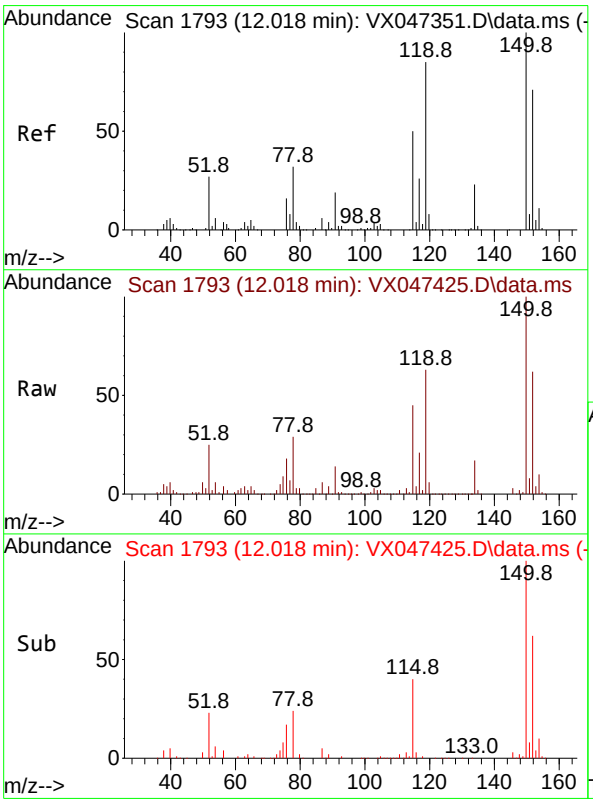
#71
Bromoform
Concen: 43.805 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 98912

Ion	Ratio	Lower	Upper
173	100		
175	49.8	24.4	73.4
254	0.1	0.1	0.1#

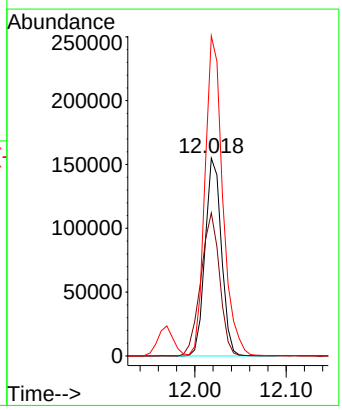


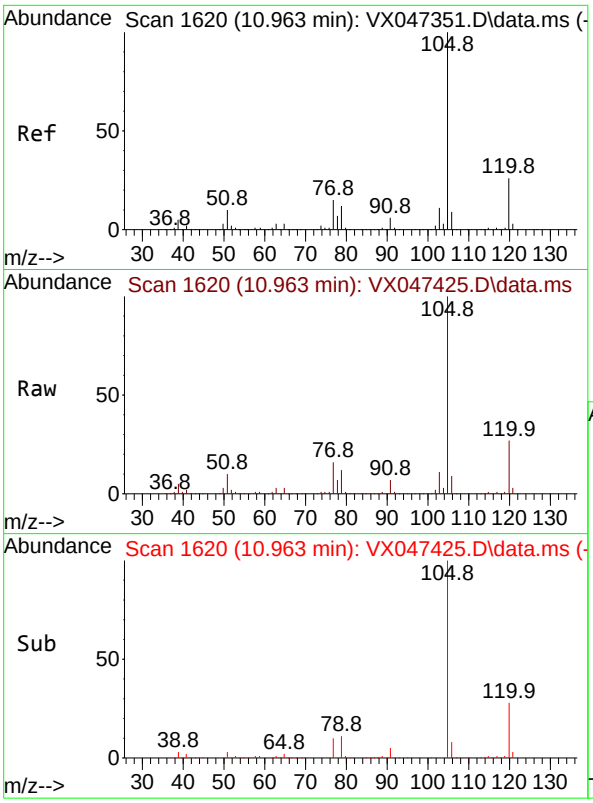


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:152 Resp: 191138

Ion	Ratio	Lower	Upper
152	100		
115	83.2	44.6	133.8
150	175.9	0.0	349.8



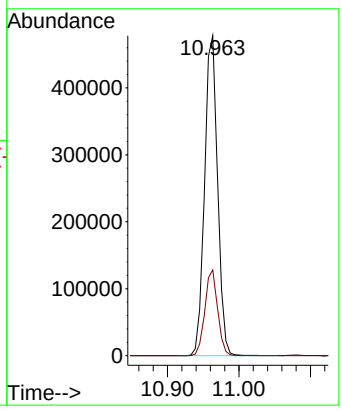


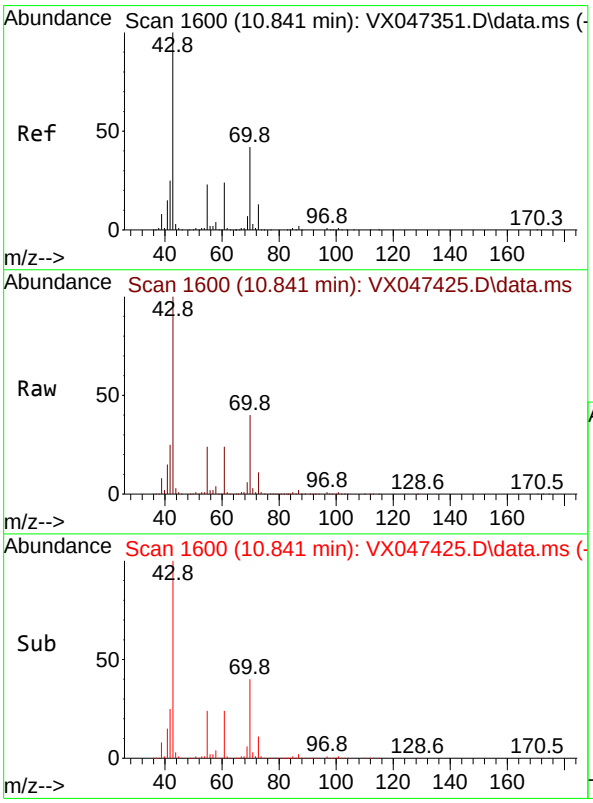
#73
Isopropylbenzene
Concen: 40.404 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 604342

Ion	Ratio	Lower	Upper
105	100		
120	26.3	12.9	38.6

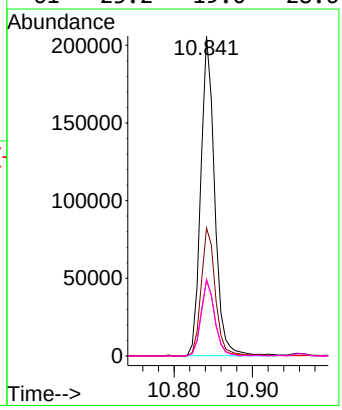


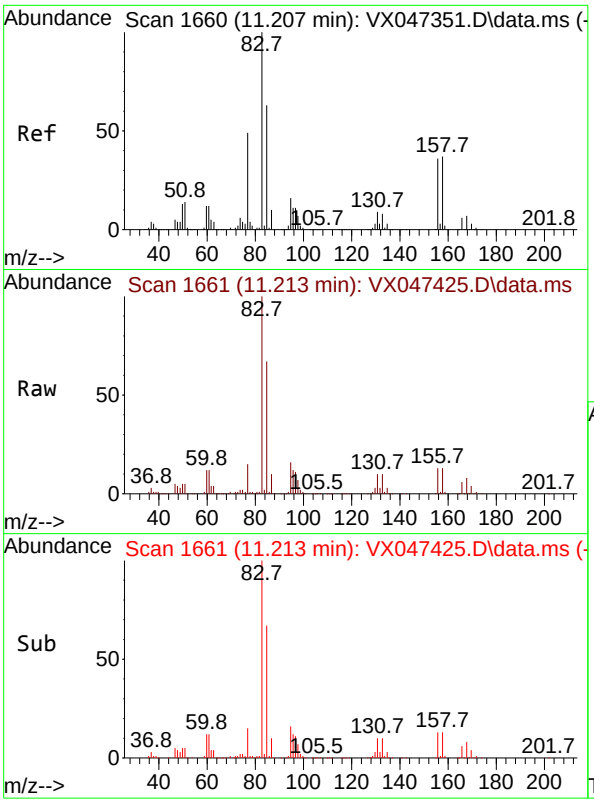


#74
N-amyl acetate
Concen: 44.564 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 43 Resp: 253123

Ion	Ratio	Lower	Upper
43	100		
70	41.2	33.1	49.7
55	23.9	19.0	28.6
61	23.2	19.0	28.6



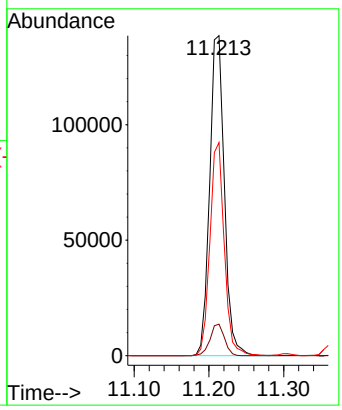


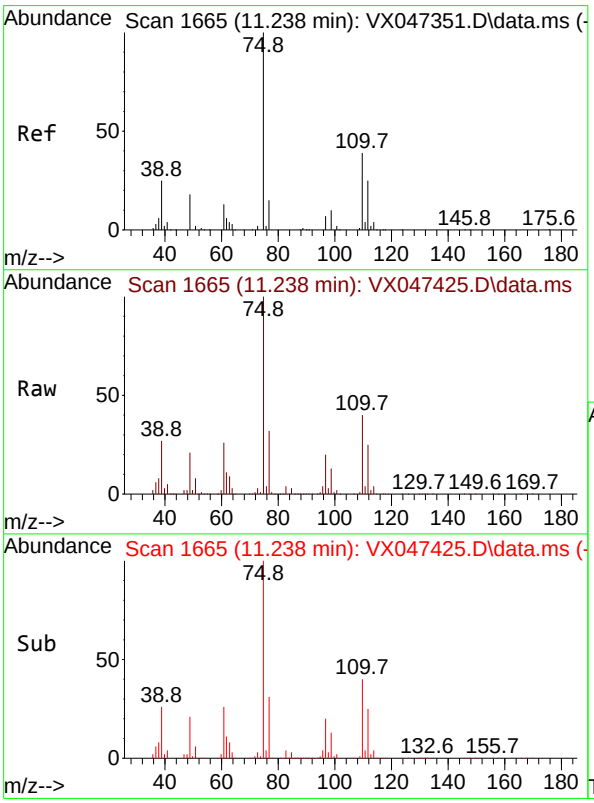
#75
1,1,2,2-Tetrachloroethane
Concen: 43.264 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 189997

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	15.0
85	64.9	31.7	95.1

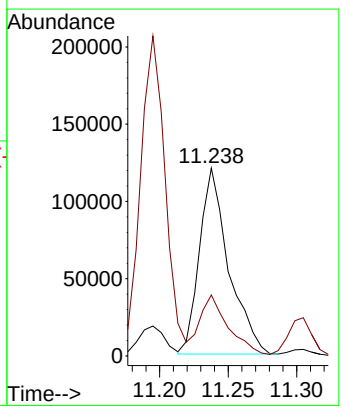


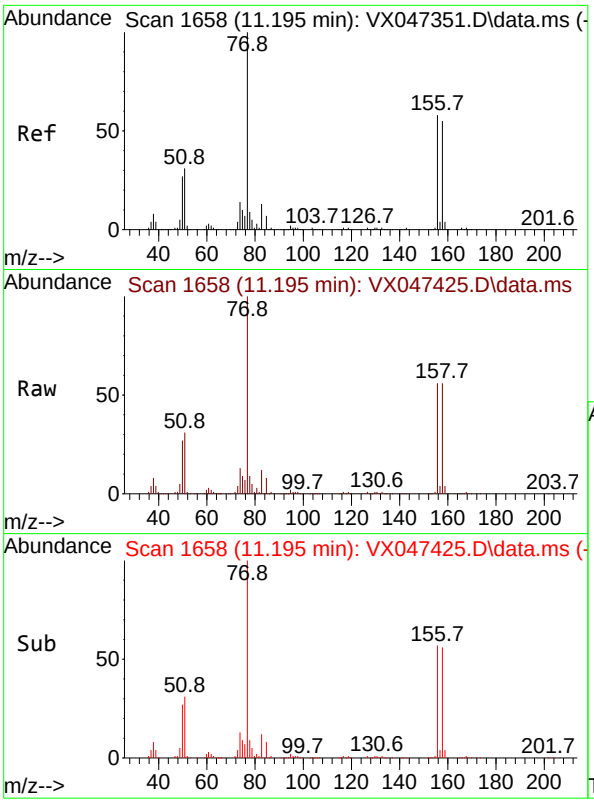


#76
1,2,3-Trichloropropane
Concen: 50.966 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 75 Resp: 178671

Ion	Ratio	Lower	Upper
75	100		
77	32.5	19.4	58.2



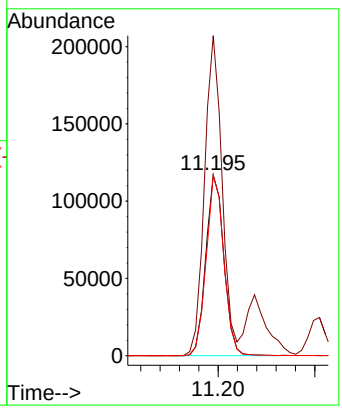


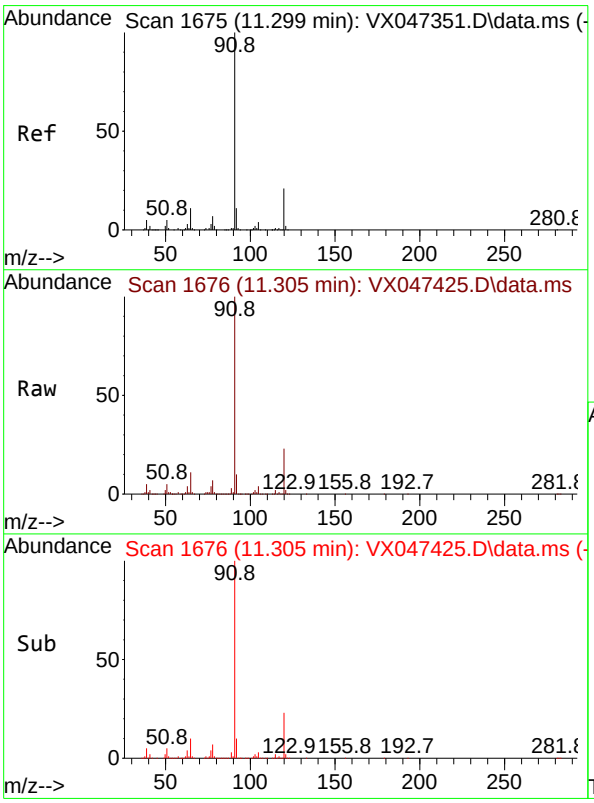
#77
Bromobenzene
Concen: 41.417 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 151274

Ion	Ratio	Lower	Upper
156	100		
77	172.7	86.3	258.9
158	97.7	48.0	144.2

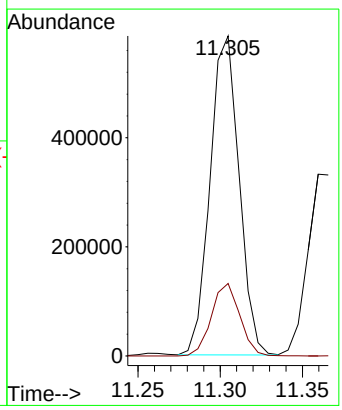


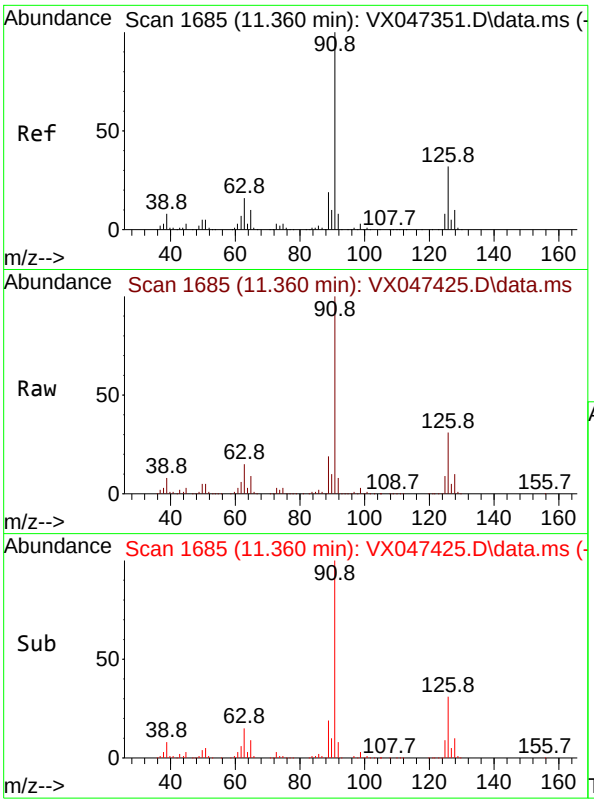


#78
n-propylbenzene
Concen: 40.228 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 91 Resp: 718624

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0



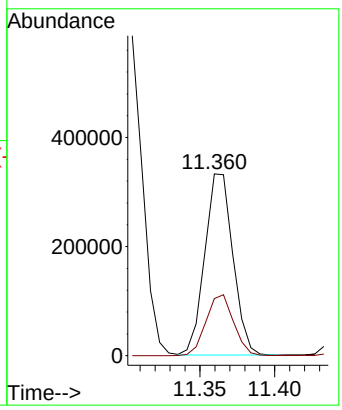


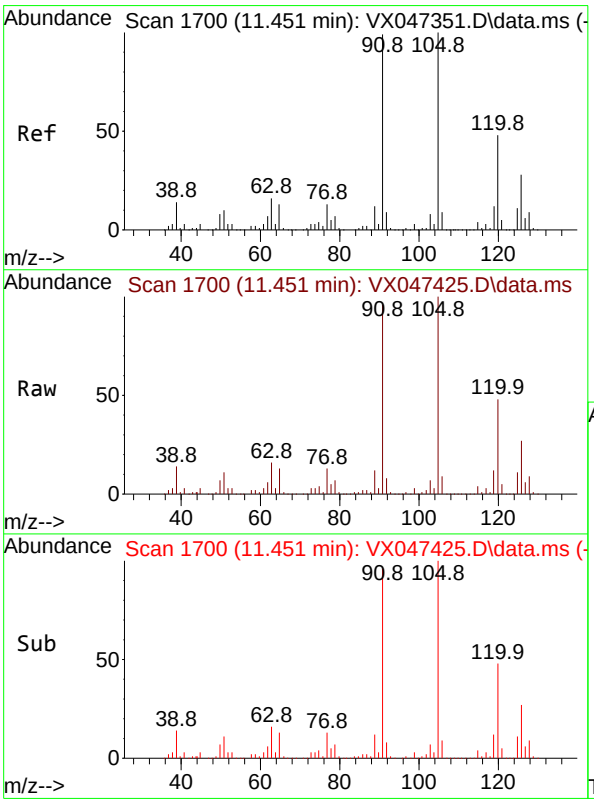
#79
2-Chlorotoluene
Concen: 40.298 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 435174

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.7	50.1

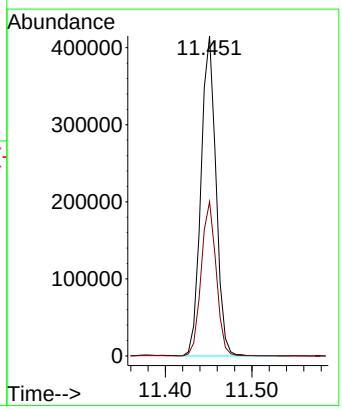


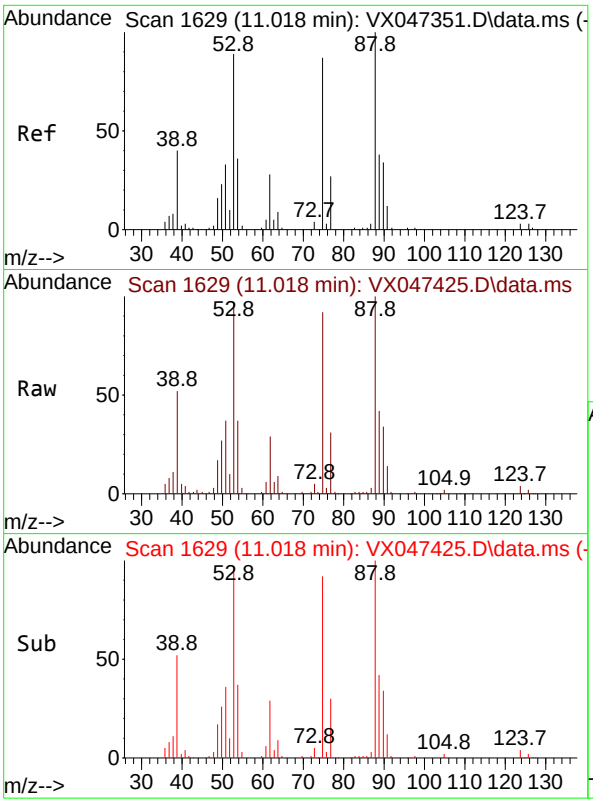


#80
1,3,5-Trimethylbenzene
Concen: 40.589 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:105 Resp: 499524

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.9	71.7



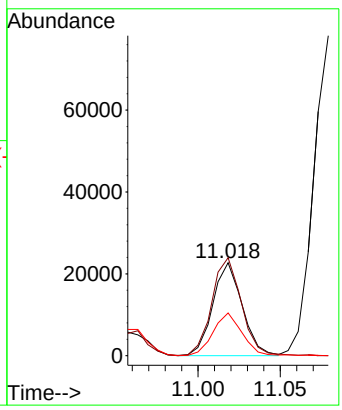


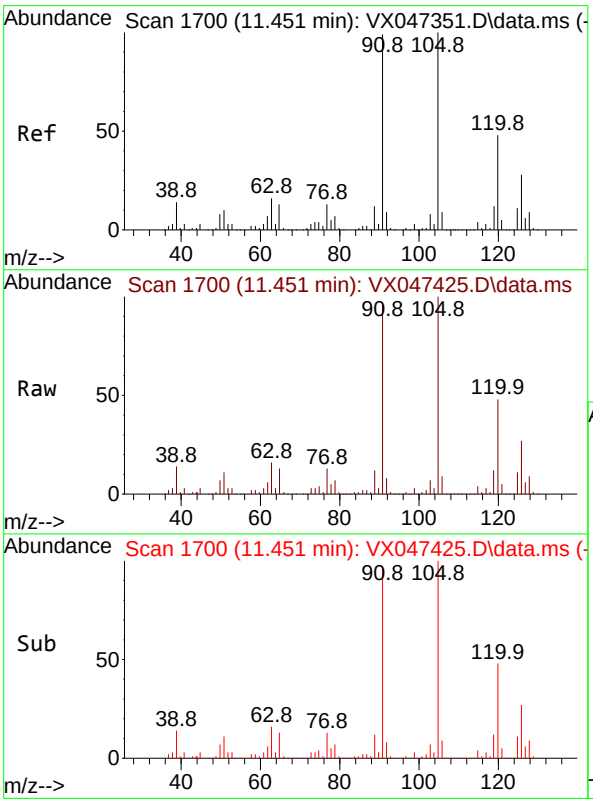
#81
trans-1,4-Dichloro-2-butene
Concen: 37.350 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 28218

Ion	Ratio	Lower	Upper
75	100		
53	106.3	85.2	127.8
89	45.6	36.7	55.1

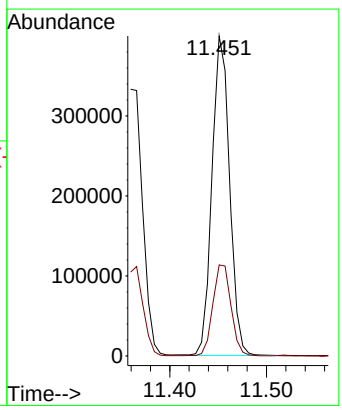


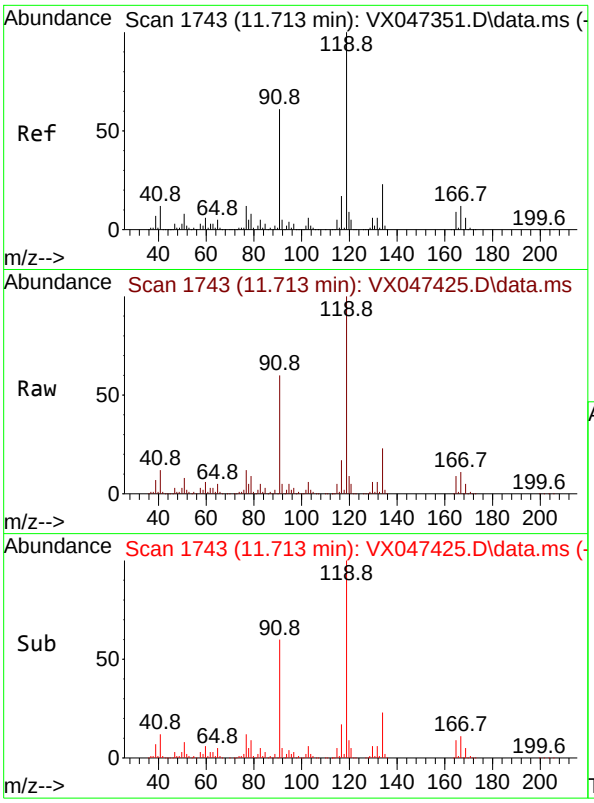


#82
4-Chlorotoluene
Concen: 39.621 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 91 Resp: 504359

Ion	Ratio	Lower	Upper
91	100		
126	29.4	14.4	43.0



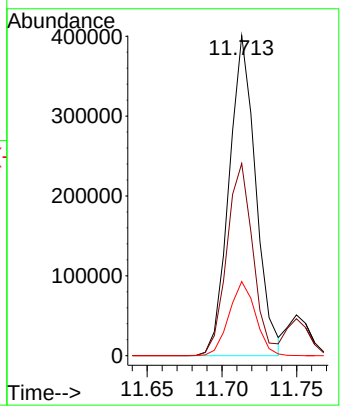


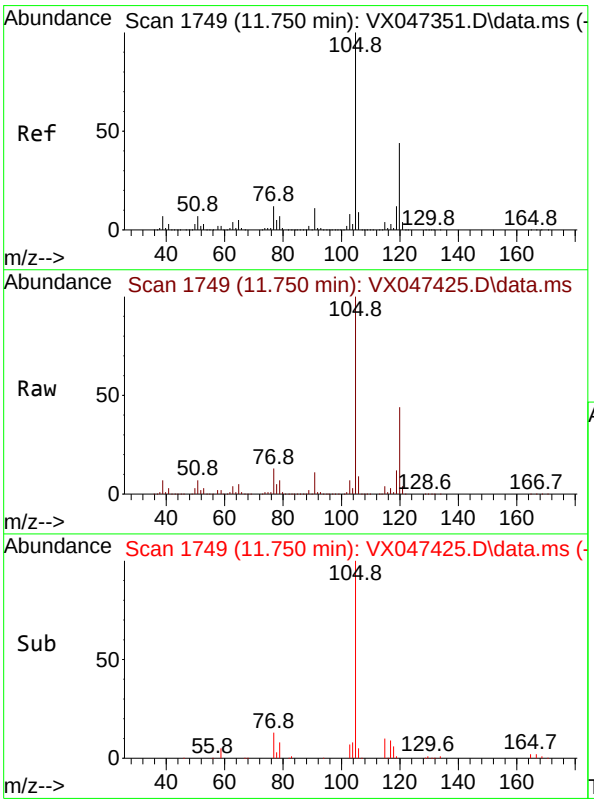
#83
tert-Butylbenzene
Concen: 40.499 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 497254

Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.1	87.4
134	23.0	11.3	33.9

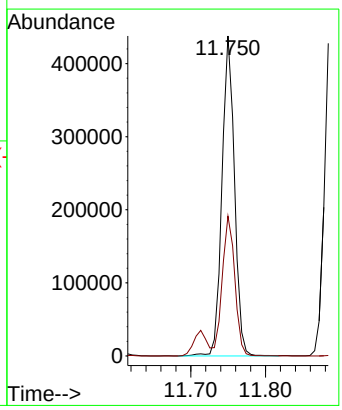


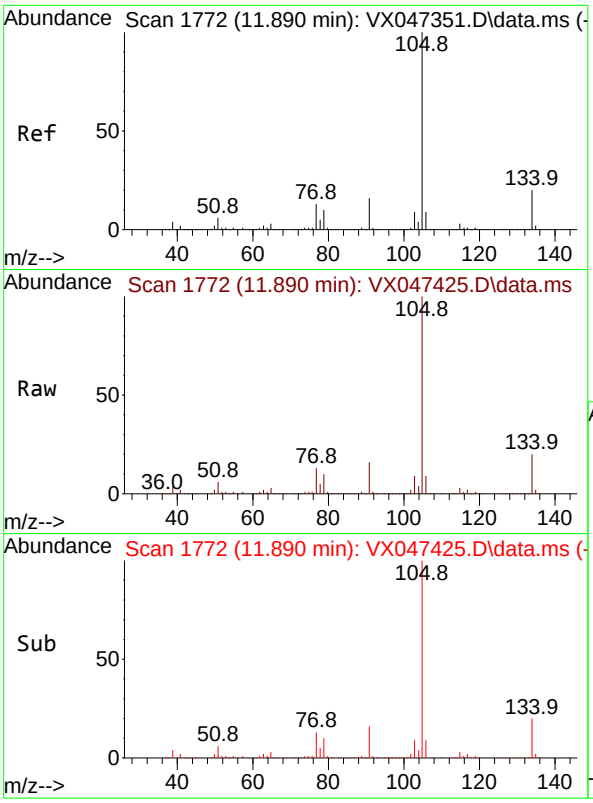


#84
1,2,4-Trimethylbenzene
Concen: 41.402 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:105 Resp: 509532

Ion	Ratio	Lower	Upper
105	100		
120	44.3	21.9	65.7



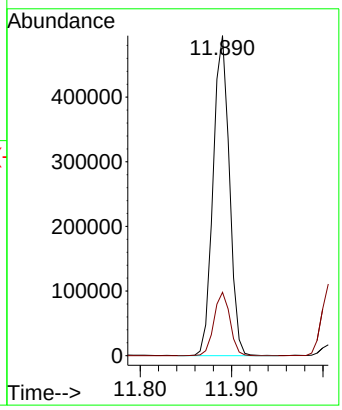


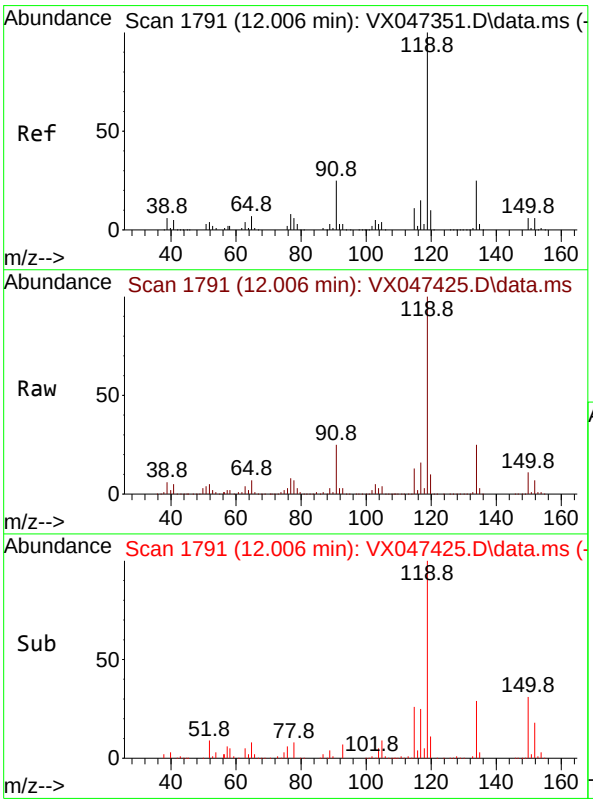
#85
sec-Butylbenzene
Concen: 40.153 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 611062

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.5

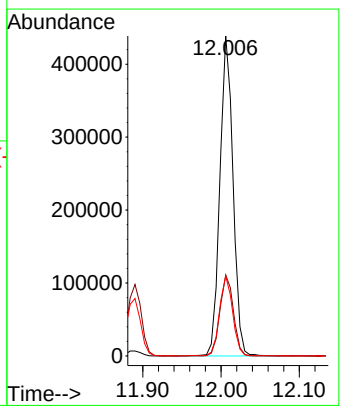


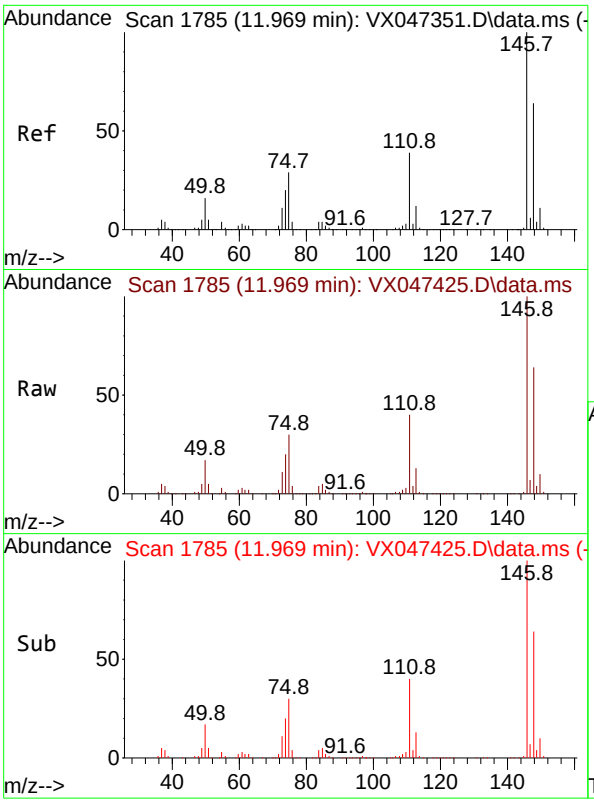


#86
p-Isopropyltoluene
Concen: 39.835 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:119 Resp: 512989

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	24.9	12.4	37.4



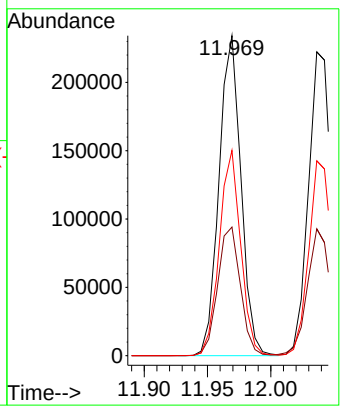


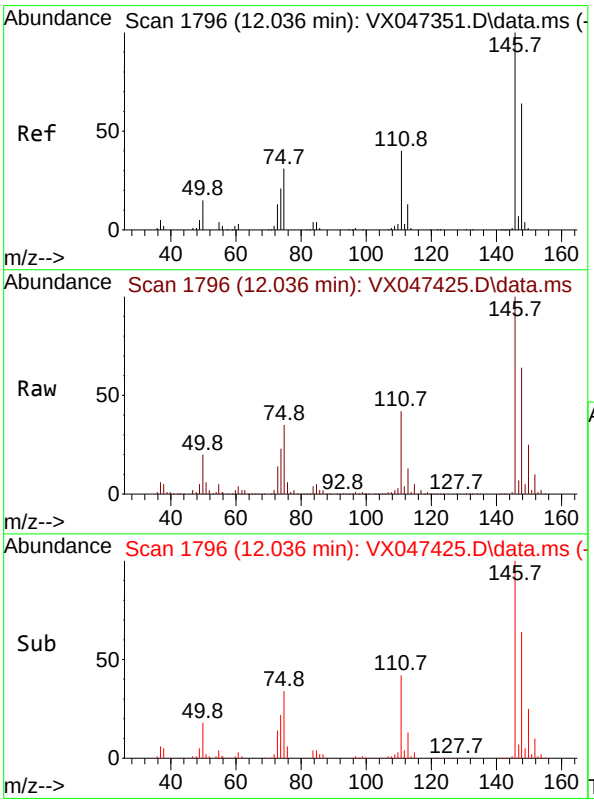
#87
1,3-Dichlorobenzene
Concen: 40.440 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 282173

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.6	61.8
148	62.4	31.9	95.5

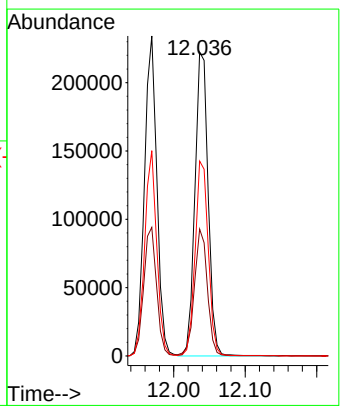


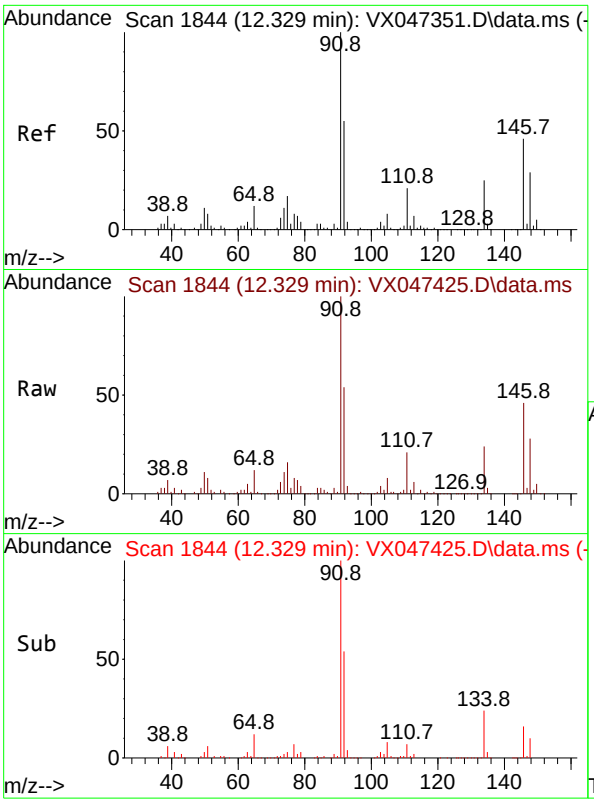


#88
1,4-Dichlorobenzene
Concen: 39.703 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:146 Resp: 284933

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.4	61.2
148	63.6	31.7	95.1



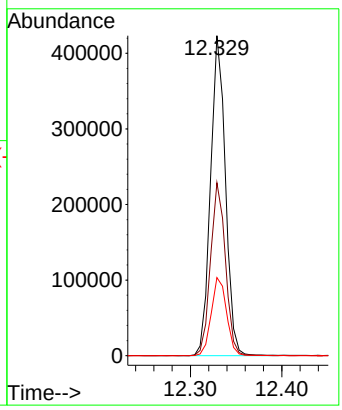


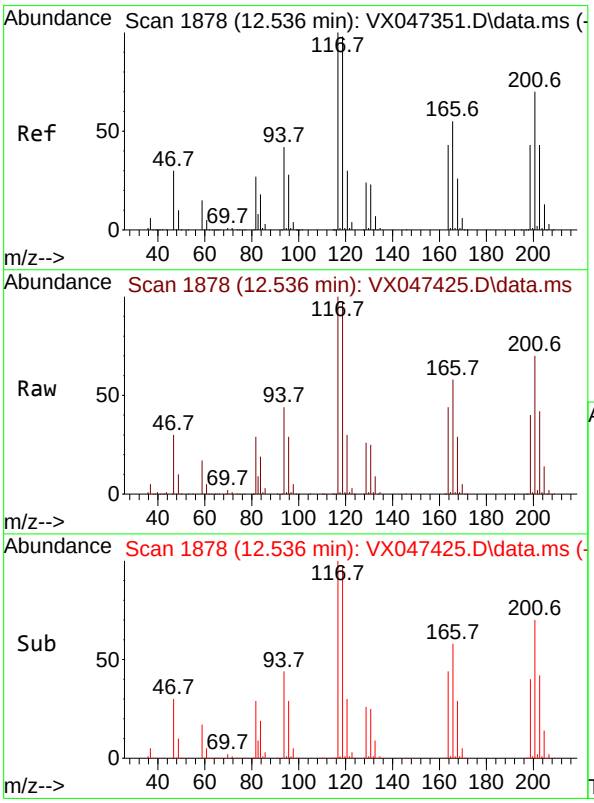
#89
n-Butylbenzene
Concen: 39.923 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 478191

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.2	81.5
134	25.1	12.6	37.8

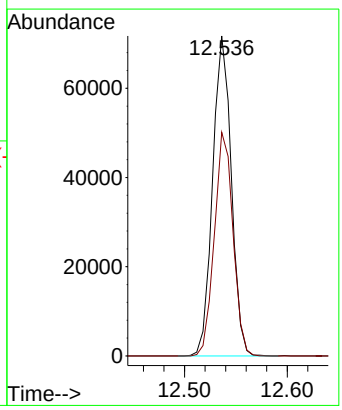


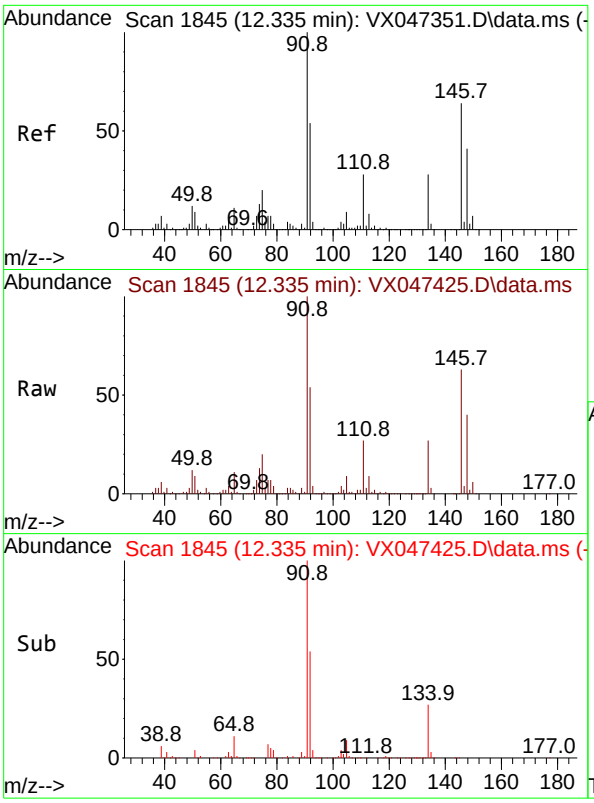


#90
Hexachloroethane
Concen: 39.894 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:117 Resp: 90127

Ion	Ratio	Lower	Upper
117	100		
201	70.0	35.1	105.3



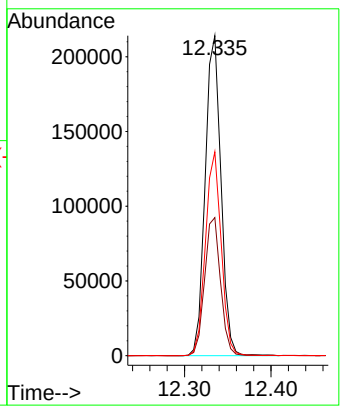


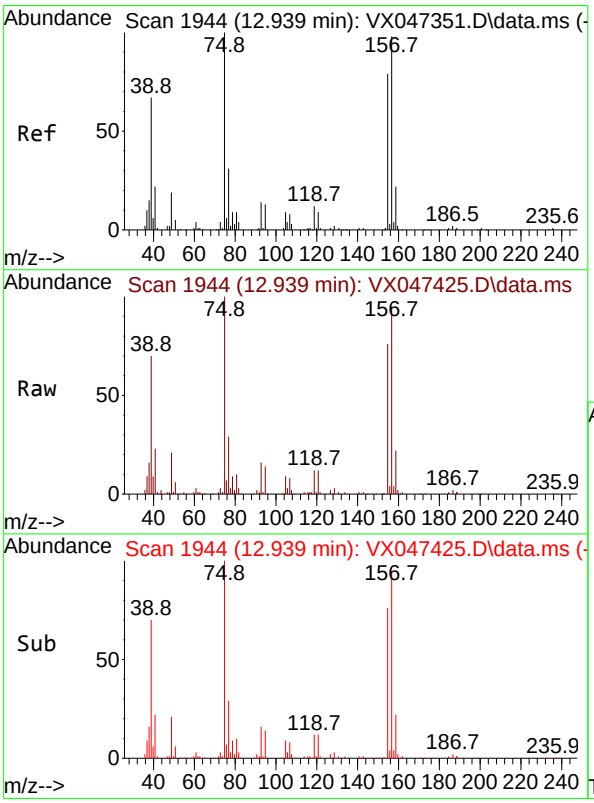
#91
1,2-Dichlorobenzene
Concen: 40.902 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 270890

Ion	Ratio	Lower	Upper
146	100		
111	43.6	22.1	66.1
148	63.6	31.9	95.5

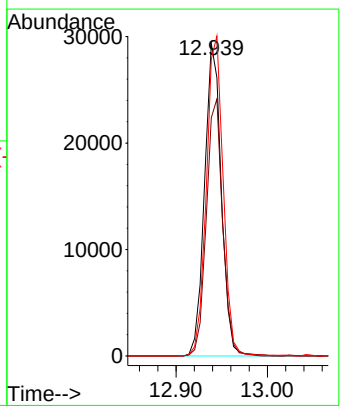


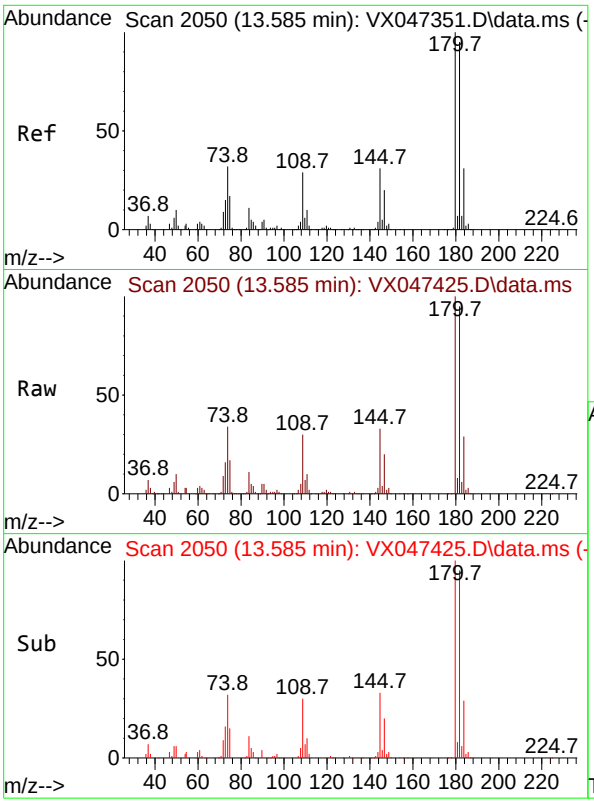


#92
1,2-Dibromo-3-Chloropropane
Concen: 43.828 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion: 75 Resp: 37223

Ion	Ratio	Lower	Upper
75	100		
155	80.0	41.3	123.7
157	102.7	51.5	154.5



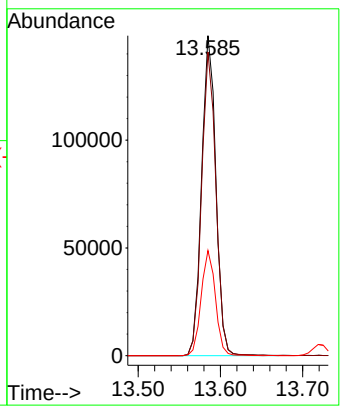


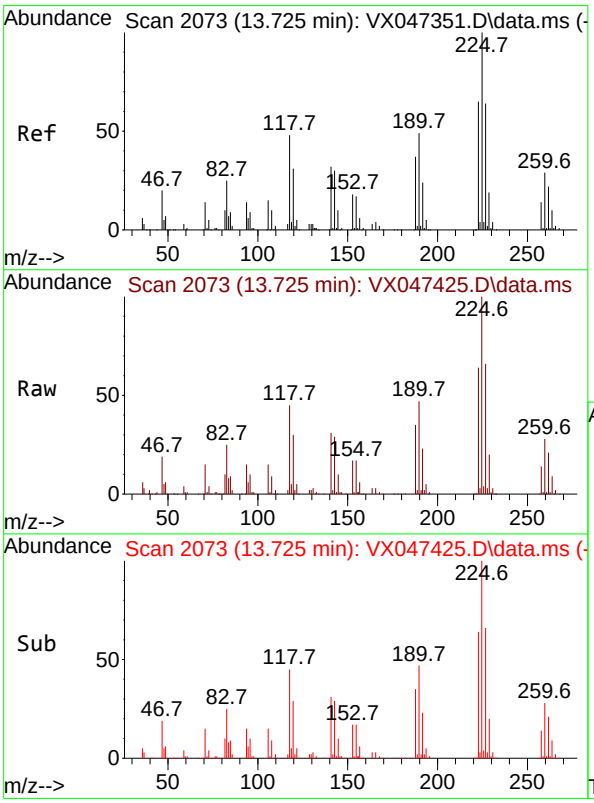
#93
1,2,4-Trichlorobenzene
Concen: 40.273 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 178812

Ion	Ratio	Lower	Upper
180	100		
182	95.2	48.1	144.4
145	32.9	16.2	48.5

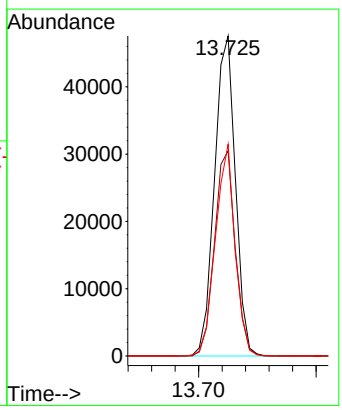


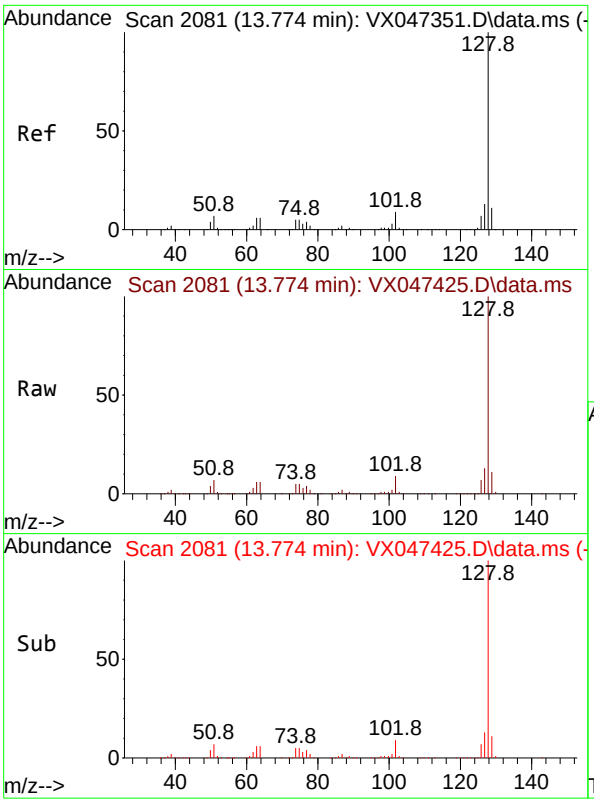


#94
Hexachlorobutadiene
Concen: 37.038 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:225 Resp: 58535

Ion	Ratio	Lower	Upper
225	100		
223	64.1	32.2	96.6
227	62.1	31.6	95.0



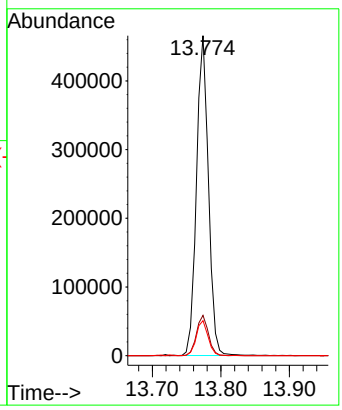


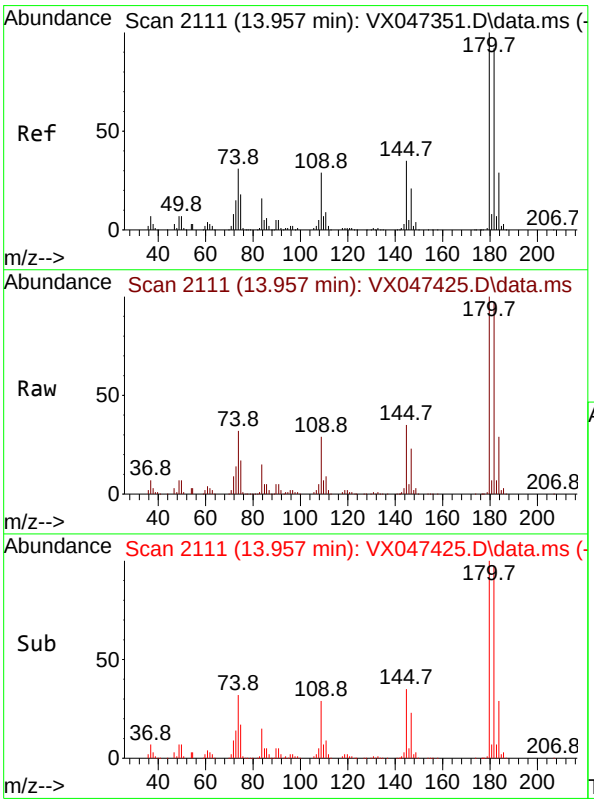
#95
Naphthalene
Concen: 44.507 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 564719

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.9	8.7	13.1

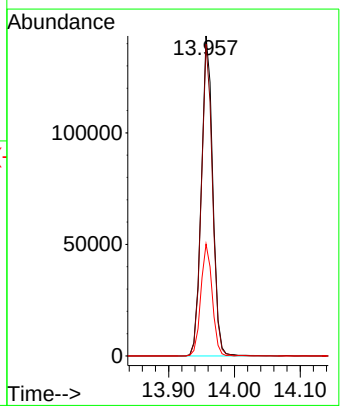




#96
1,2,3-Trichlorobenzene
Concen: 41.215 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047425.D
Acq: 19 Aug 2025 19:47

Tgt Ion:180 Resp: 172490

Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.0	144.2
145	34.9	17.4	52.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	222102	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	369648	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	338607	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	165668	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	165825	53.348	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.700%			
35) Dibromofluoromethane	5.391	113	131333	54.744	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.480%			
50) Toluene-d8	8.647	98	454952	53.057	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.120%			
62) 4-Bromofluorobenzene	11.079	95	171750	54.278	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	137479	48.557	ug/l	99
3) Chloromethane	1.307	50	116471	45.729	ug/l	96
4) Vinyl Chloride	1.392	62	149112	46.643	ug/l	98
5) Bromomethane	1.624	94	62138	48.121	ug/l	96
6) Chloroethane	1.703	64	86133	44.036	ug/l	100
7) Trichlorofluoromethane	1.904	101	222951	47.149	ug/l	100
8) Diethyl Ether	2.148	74	81534	48.968	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.343	101	137505	50.129	ug/l	99
10) Methyl Iodide	2.465	142	175616	37.360	ug/l	99
11) Tert butyl alcohol	2.959	59	77273	285.760	ug/l	98
12) 1,1-Dichloroethene	2.337	96	130124	46.532	ug/l	97
13) Acrolein	2.246	56	166950	292.470	ug/l	100
14) Allyl chloride	2.678	41	233998	48.177	ug/l	97
15) Acrylonitrile	3.075	53	345699	264.563	ug/l	100
16) Acetone	2.386	43	339865	290.885	ug/l	98
17) Carbon Disulfide	2.526	76	362926	43.008	ug/l	99
18) Methyl Acetate	2.709	43	168367	55.608	ug/l	99
19) Methyl tert-butyl Ether	3.124	73	426473	50.130	ug/l	99
20) Methylene Chloride	2.800	84	145340	46.976	ug/l	96
21) trans-1,2-Dichloroethene	3.105	96	138016	46.500	ug/l	99
22) Diisopropyl ether	3.764	45	479860	49.981	ug/l #	82
23) Vinyl Acetate	3.727	43	2003620	254.613	ug/l	100
24) 1,1-Dichloroethane	3.617	63	257251	47.405	ug/l	99
25) 2-Butanone	4.562	43	432361	282.551	ug/l	99
26) 2,2-Dichloropropane	4.483	77	196523	47.981	ug/l	100
27) cis-1,2-Dichloroethene	4.495	96	162834	47.103	ug/l	99
28) Bromochloromethane	4.904	49	118739	52.582	ug/l	98
29) Tetrahydrofuran	5.013	42	258151	261.014	ug/l	98
30) Chloroform	5.099	83	263954	47.660	ug/l	100
31) Cyclohexane	5.483	56	232913	46.560	ug/l	97
32) 1,1,1-Trichloroethane	5.391	97	225596	47.325	ug/l	99
36) 1,1-Dichloropropene	5.696	75	179428	47.379	ug/l	99
37) Ethyl Acetate	4.721	43	198822	50.571	ug/l	99
38) Carbon Tetrachloride	5.684	117	196495	47.480	ug/l	97
39) Methylcyclohexane	7.385	83	227398	48.139	ug/l	95
40) Benzene	6.044	78	548553	48.393	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	81393	49.094	ug/l		94
42) 1,2-Dichloroethane	6.093	62	199161	49.602	ug/l		99
43) Isopropyl Acetate	6.342	43	290517	51.437	ug/l		100
44) Trichloroethene	7.129	130	136195	46.924	ug/l		99
45) 1,2-Dichloropropane	7.428	63	139581	49.152	ug/l		100
46) Dibromomethane	7.580	93	101467	49.216	ug/l		99
47) Bromodichloromethane	7.818	83	213085	49.856	ug/l		99
48) Methyl methacrylate	7.690	41	149931	51.141	ug/l		99
49) 1,4-Dioxane	7.684	88	36343	1275.197	ug/l		96
51) 4-Methyl-2-Pentanone	8.574	43	871077	268.005	ug/l		99
52) Toluene	8.714	92	343297	49.011	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	195614	52.441	ug/l		100
54) cis-1,3-Dichloropropene	8.367	75	214406	50.782	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	133399	50.160	ug/l		98
56) Ethyl methacrylate	9.116	69	204493	52.154	ug/l		99
57) 1,3-Dichloropropane	9.305	76	229079	50.551	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	484861	258.666	ug/l		99
59) 2-Hexanone	9.427	43	608467	270.640	ug/l		100
60) Dibromochloromethane	9.519	129	158872	50.268	ug/l		99
61) 1,2-Dibromoethane	9.610	107	136781	49.876	ug/l		99
64) Tetrachloroethene	9.269	164	113583	46.376	ug/l		96
65) Chlorobenzene	10.073	112	376977	46.849	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	129555	47.629	ug/l		100
67) Ethyl Benzene	10.189	91	656208	47.382	ug/l		99
68) m/p-Xylenes	10.299	106	499398	96.706	ug/l		100
69) o-Xylene	10.640	106	238178	47.927	ug/l		98
70) Styrene	10.653	104	412220	49.091	ug/l		100
71) Bromoform	10.799	173	102529	50.173	ug/l	#	99
73) Isopropylbenzene	10.957	105	631147	48.683	ug/l		99
74) N-amyl acetate	10.842	43	252091	51.206	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	190203	49.970	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	186243	61.294	ug/l		89
77) Bromobenzene	11.195	156	151602	47.888	ug/l		99
78) n-propylbenzene	11.299	91	752772	48.618	ug/l		99
79) 2-Chlorotoluene	11.360	91	443648	47.399	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	516490	48.420	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	32638	47.211	ug/l		99
82) 4-Chlorotoluene	11.451	91	524154	47.507	ug/l		100
83) tert-Butylbenzene	11.713	119	525854	49.413	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	521624	48.900	ug/l		99
85) sec-Butylbenzene	11.890	105	656494	49.771	ug/l		100
86) p-Isopropyltoluene	12.006	119	548635	49.153	ug/l		99
87) 1,3-Dichlorobenzene	11.963	146	285444	47.198	ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	288167	46.327	ug/l		100
89) n-Butylbenzene	12.329	91	520953	50.180	ug/l		100
90) Hexachloroethane	12.536	117	96627	49.346	ug/l		100
91) 1,2-Dichlorobenzene	12.329	146	272826	47.527	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	37072	50.361	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	185776	48.275	ug/l		98
94) Hexachlorobutadiene	13.719	225	70719	51.627	ug/l		98
95) Naphthalene	13.774	128	565526	51.423	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	176412	48.632	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

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

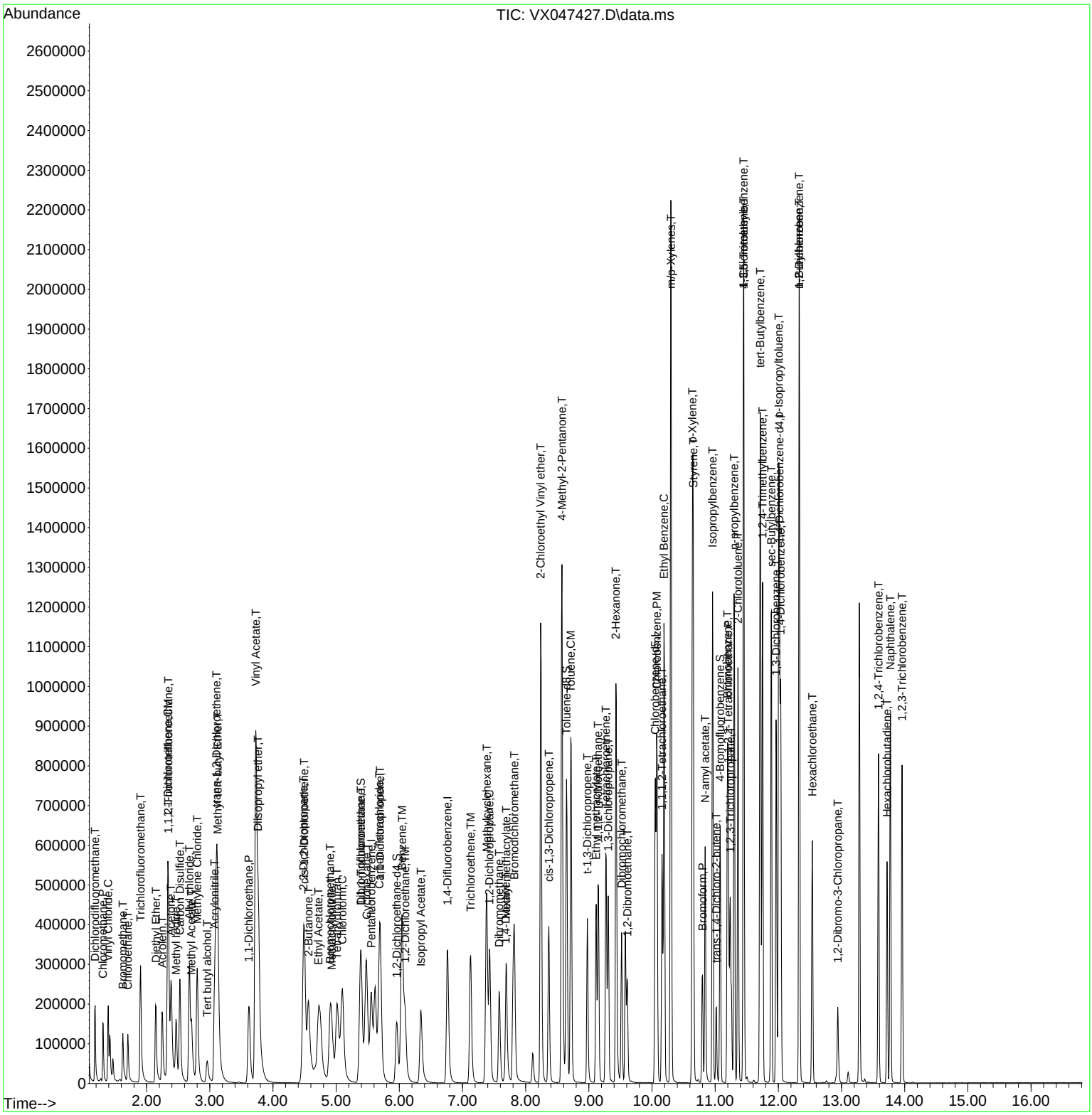
(#) = qualifier out of range (m) = manual integration (+) = signals summed

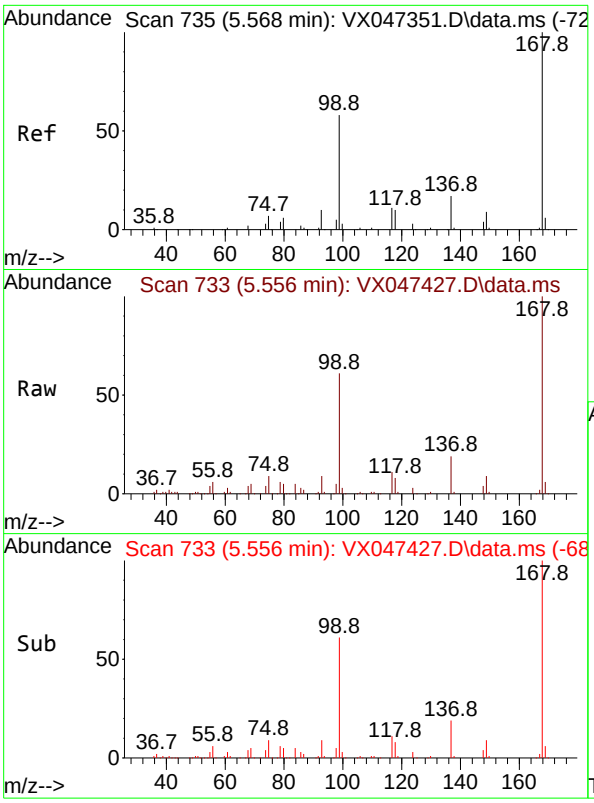
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047427.D
Acq On : 20 Aug 2025 09:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Aug 21 01:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



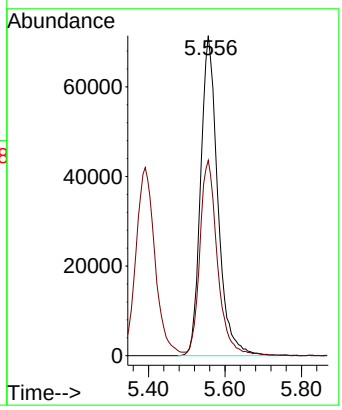


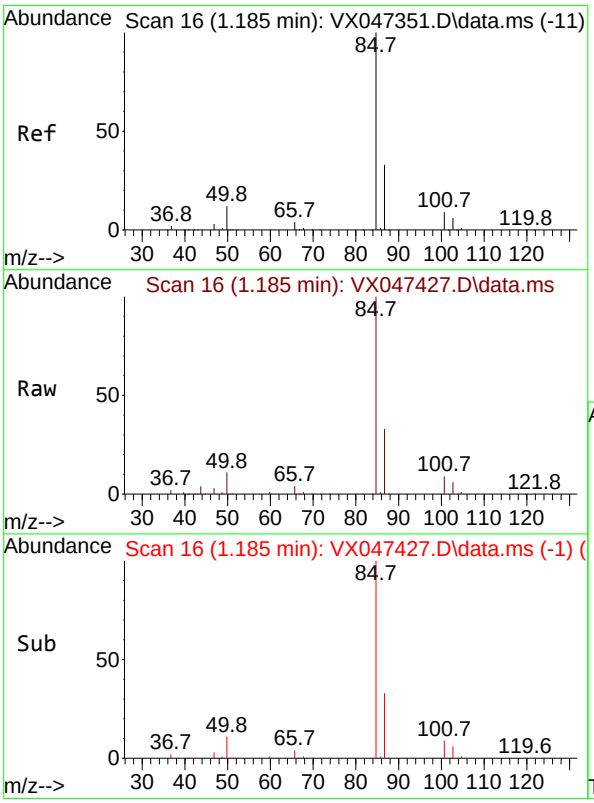
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 222102

Ion	Ratio	Lower	Upper
168	100		
99	60.9	47.9	71.9

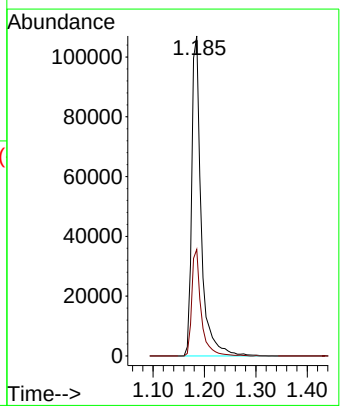


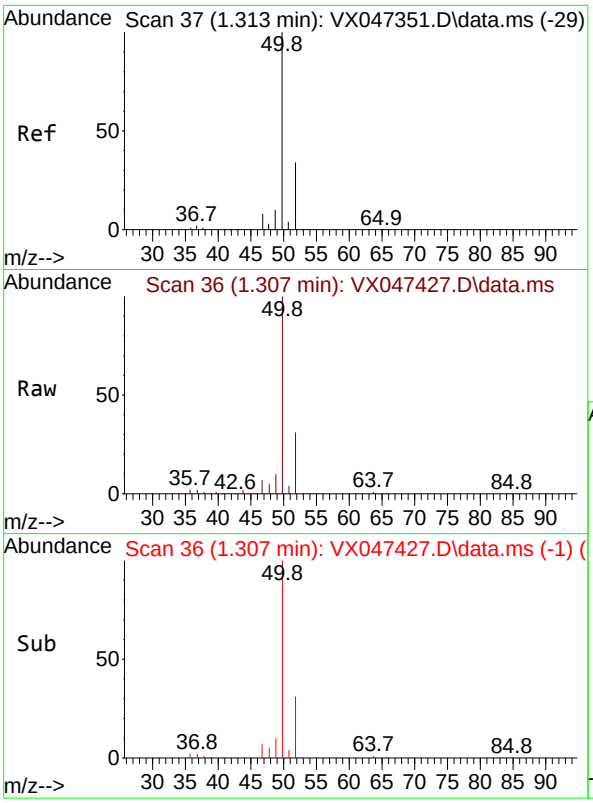


#2
Dichlorodifluoromethane
Concen: 48.557 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 85 Resp: 137479

Ion	Ratio	Lower	Upper
85	100		
87	33.3	16.4	49.1



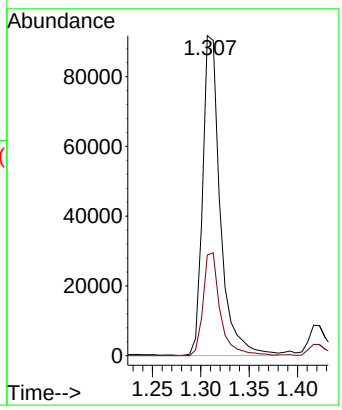


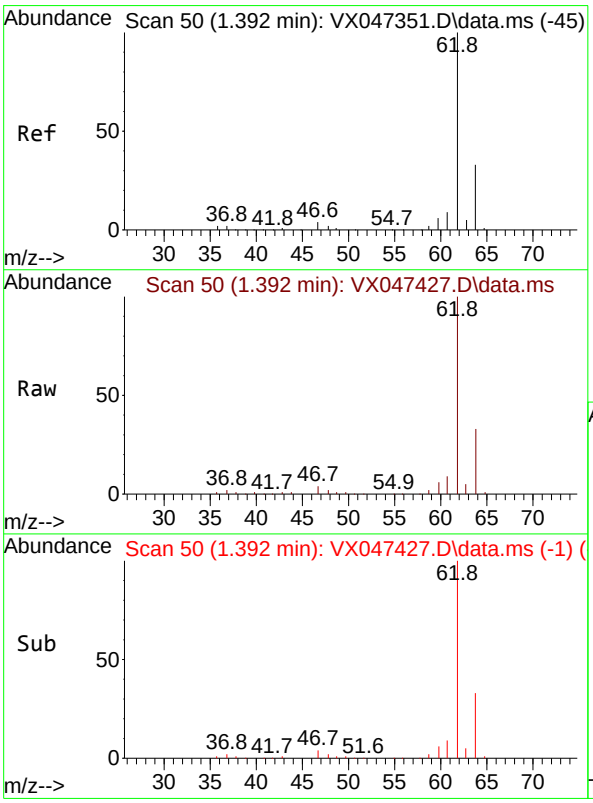
#3
Chloromethane
Concen: 45.729 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 116471

Ion	Ratio	Lower	Upper
50	100		
52	31.5	27.0	40.4

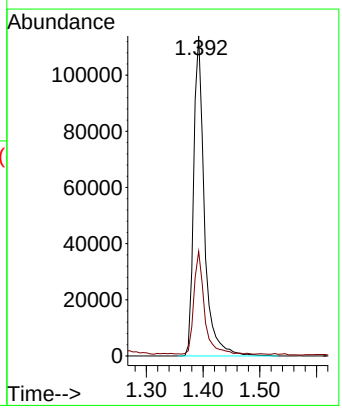


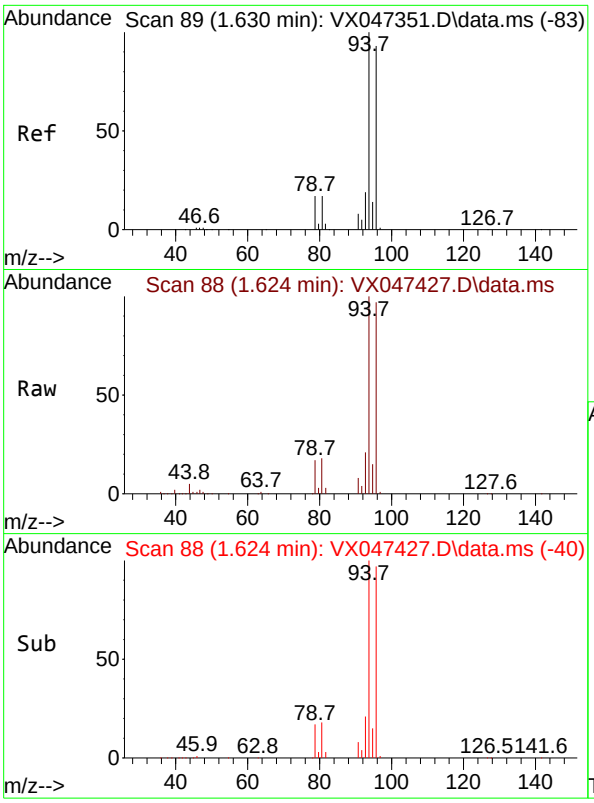


#4
Vinyl Chloride
Concen: 46.643 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 62 Resp: 149112

Ion	Ratio	Lower	Upper
62	100		
64	32.2	26.5	39.7



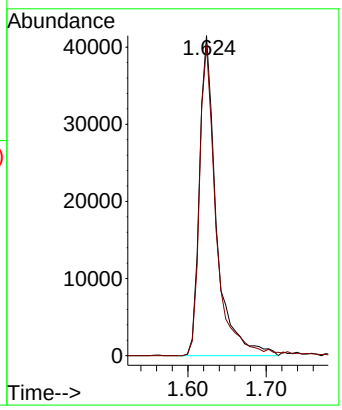


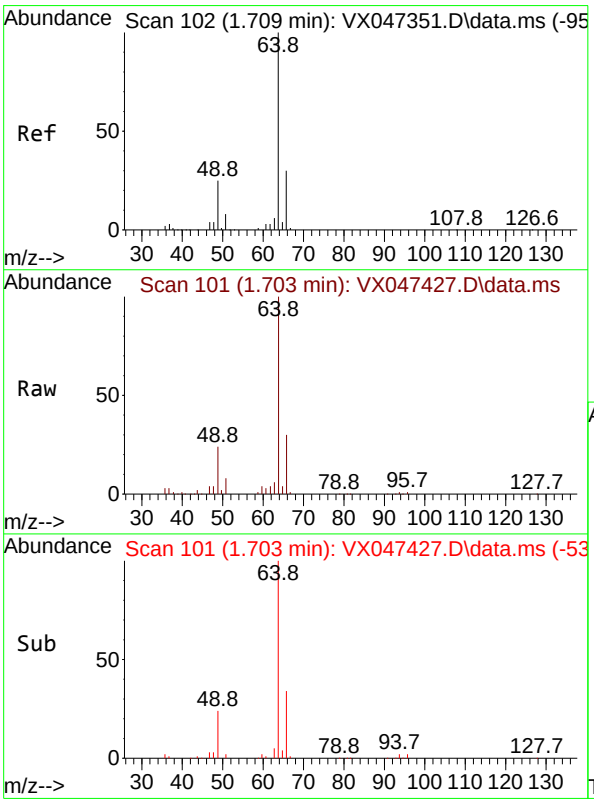
#5
Bromomethane
Concen: 48.121 ug/l
RT: 1.624 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 62138

Ion	Ratio	Lower	Upper
94	100		
96	97.1	74.7	112.1

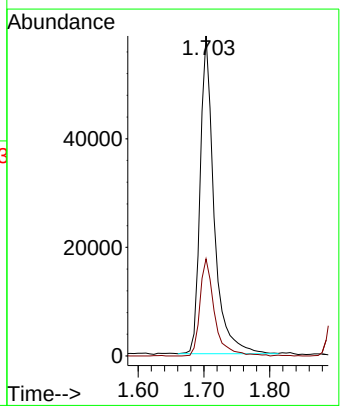


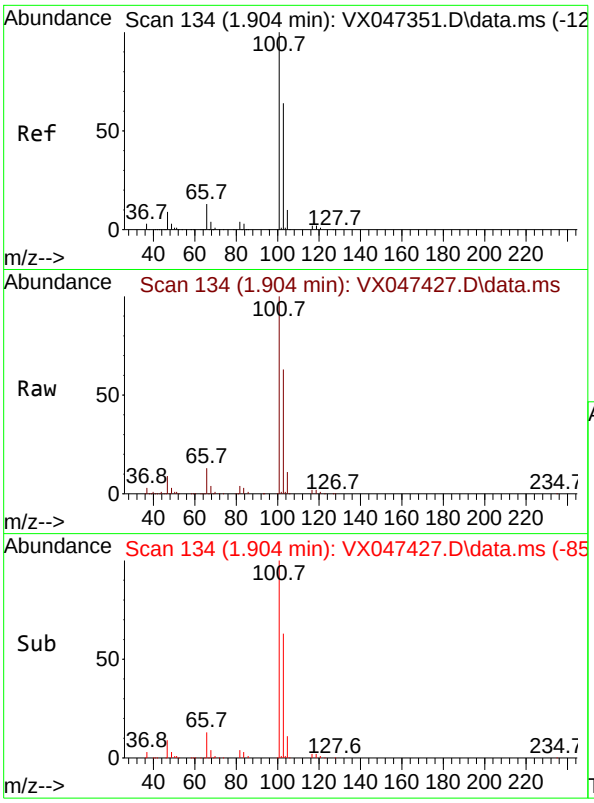


#6
Chloroethane
Concen: 44.036 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 64 Resp: 86133

Ion	Ratio	Lower	Upper
64	100		
66	30.6	24.4	36.6



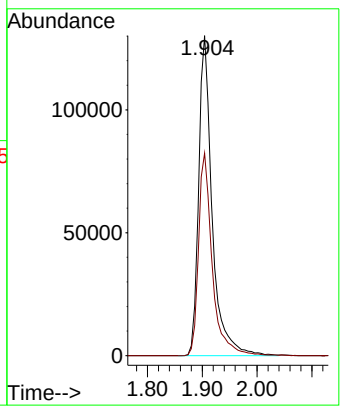


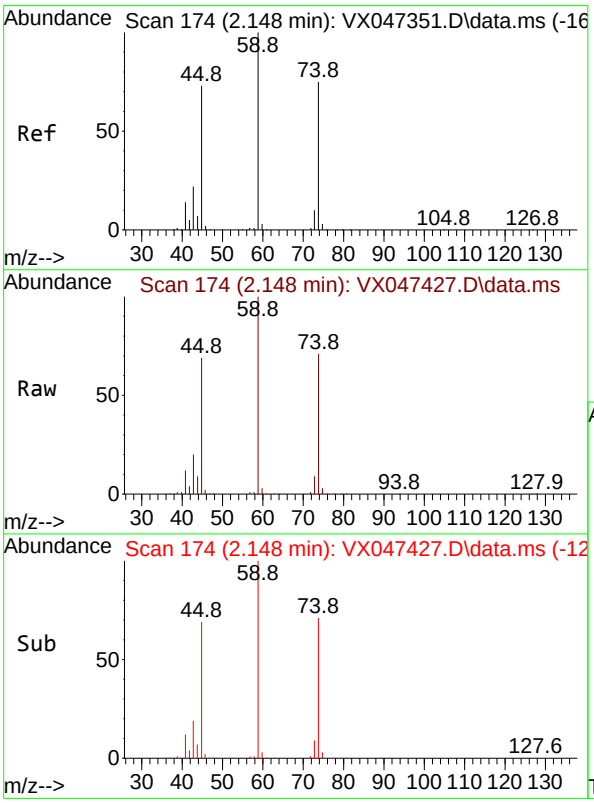
#7
Trichlorofluoromethane
Concen: 47.149 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 222951

Ion	Ratio	Lower	Upper
101	100		
103	63.3	50.9	76.3

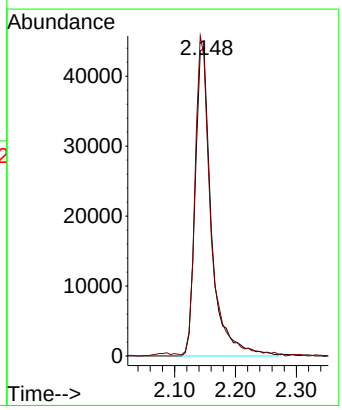


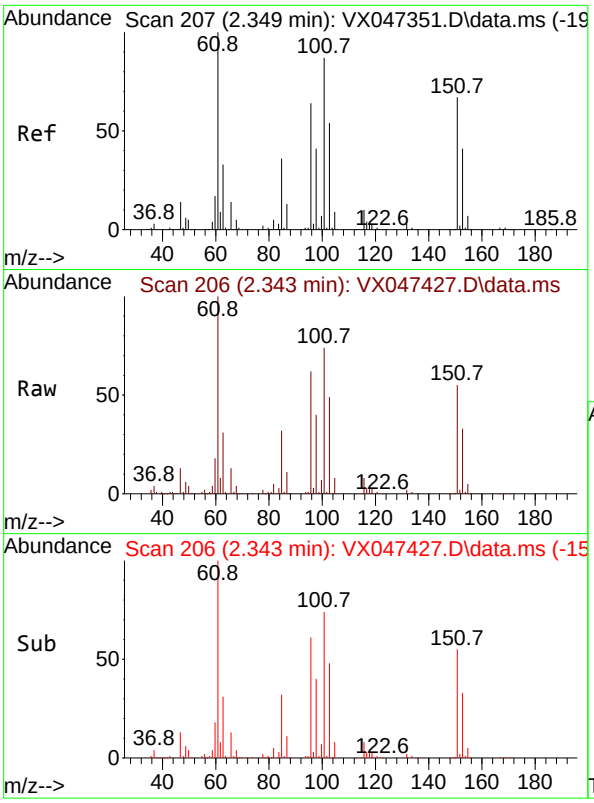


#8
Diethyl Ether
Concen: 48.968 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 74 Resp: 81534

Ion	Ratio	Lower	Upper
74	100		
45	101.0	51.3	154.0



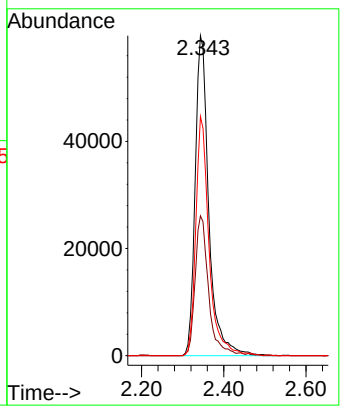


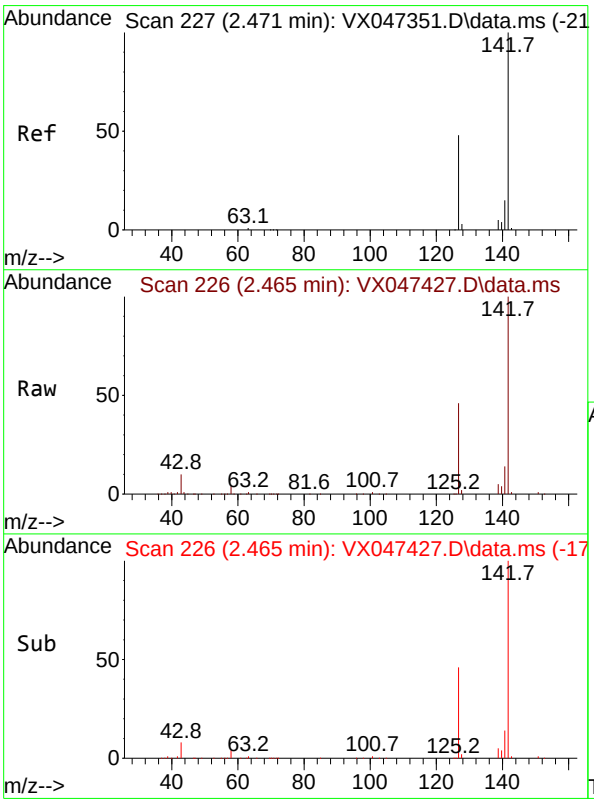
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.129 ug/l
RT: 2.343 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 137505

Ion	Ratio	Lower	Upper
101	100		
85	43.7	34.3	51.5
151	72.7	59.2	88.8

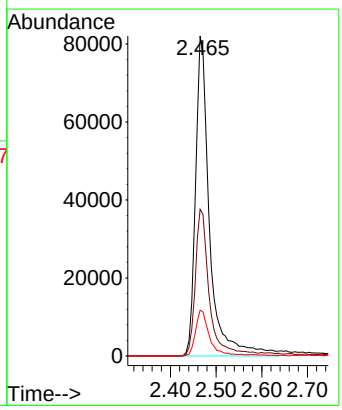


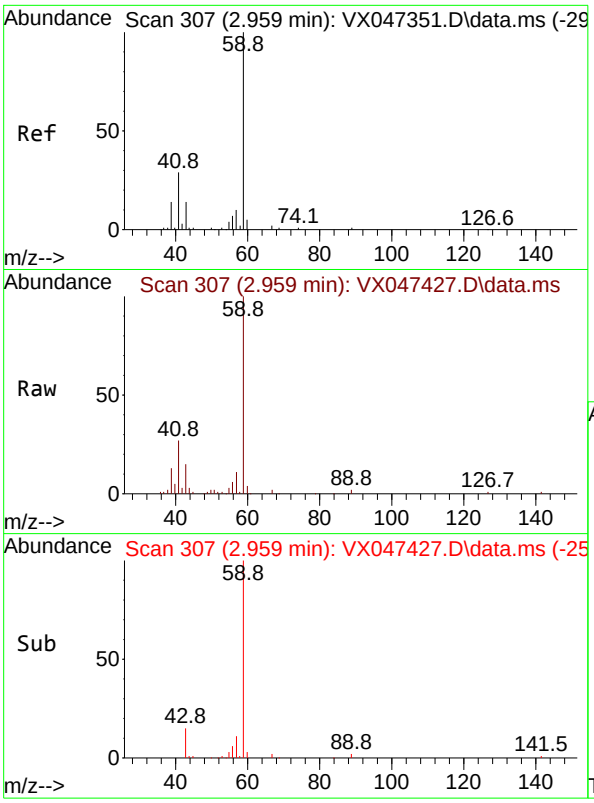


#10
Methyl Iodide
Concen: 37.360 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:142 Resp: 175616

Ion	Ratio	Lower	Upper
142	100		
127	45.6	36.1	54.1
141	14.2	11.1	16.7



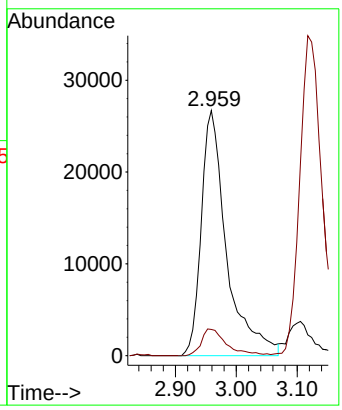


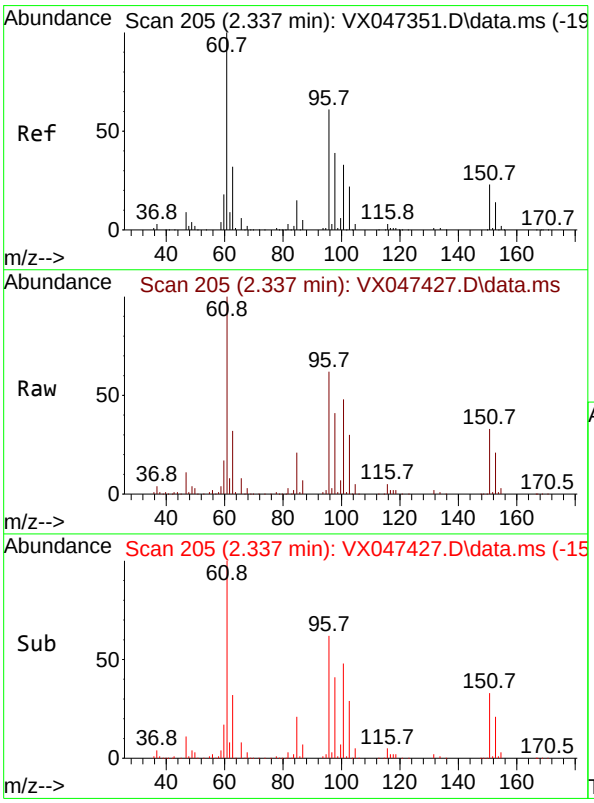
#11
Tert butyl alcohol
Concen: 285.760 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 77273

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.3	12.5

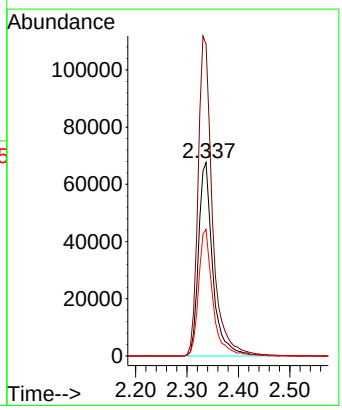


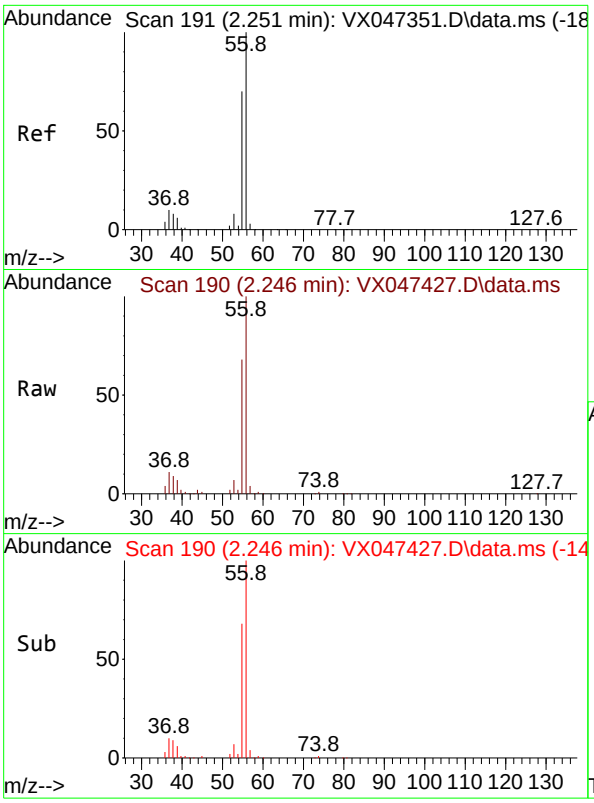


#12
1,1-Dichloroethene
Concen: 46.532 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 96 Resp: 130124

Ion	Ratio	Lower	Upper
96	100		
61	161.3	132.2	198.2
98	65.4	51.2	76.8



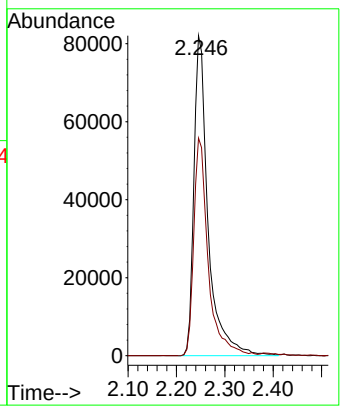


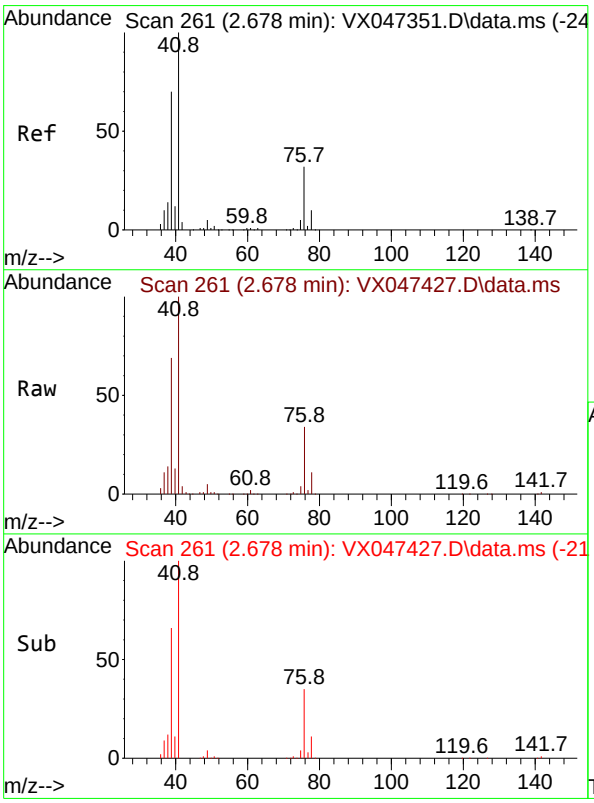
#13
Acrolein
Concen: 292.470 ug/l
RT: 2.246 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 166950

Ion	Ratio	Lower	Upper
56	100		
55	69.0	55.5	83.3

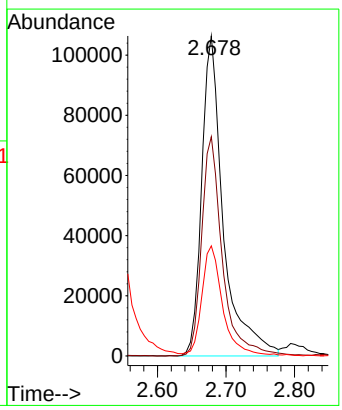


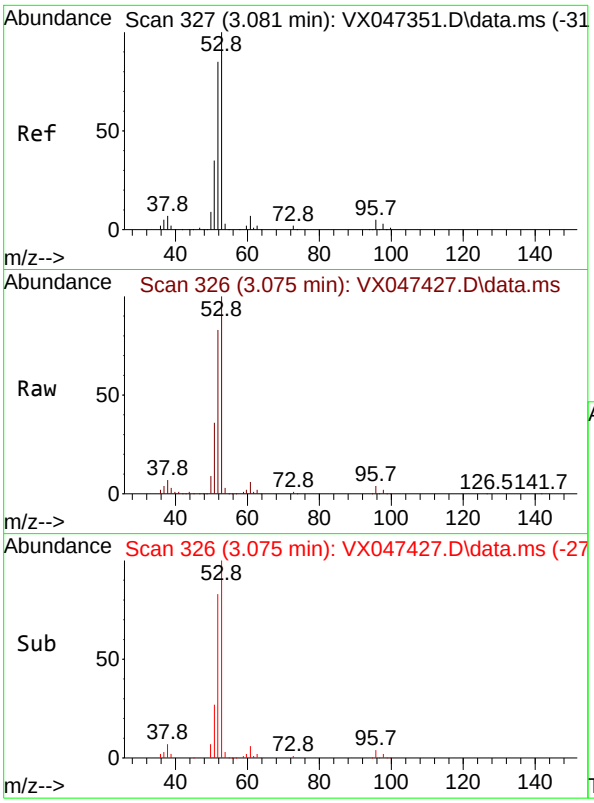


#14
Allyl chloride
Concen: 48.177 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 41 Resp: 233998

Ion	Ratio	Lower	Upper
41	100		
39	65.8	54.6	81.8
76	32.5	27.6	41.4



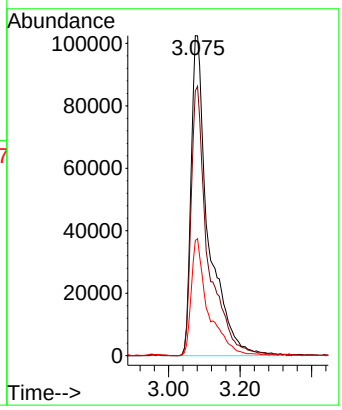


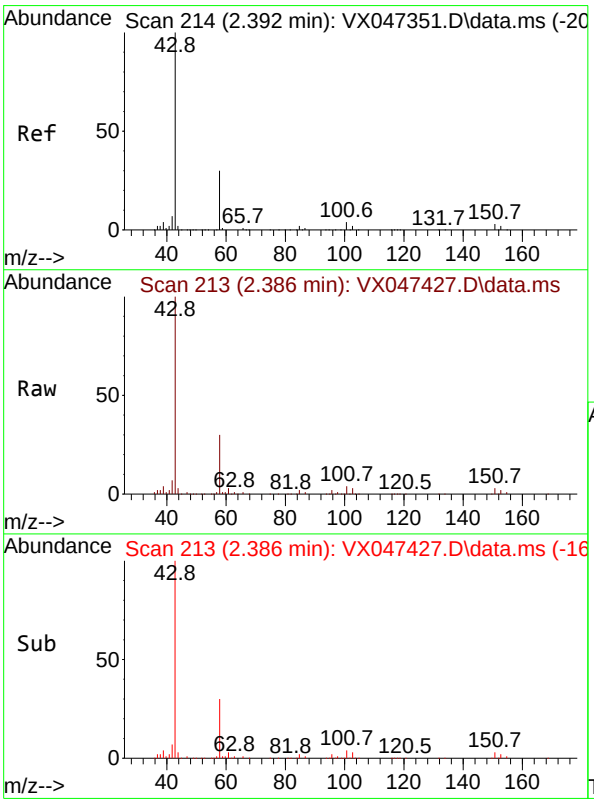
#15
Acrylonitrile
Concen: 264.563 ug/l
RT: 3.075 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 345699

Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.8	98.6
51	36.0	28.2	42.2

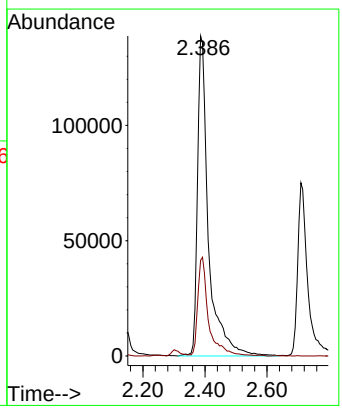


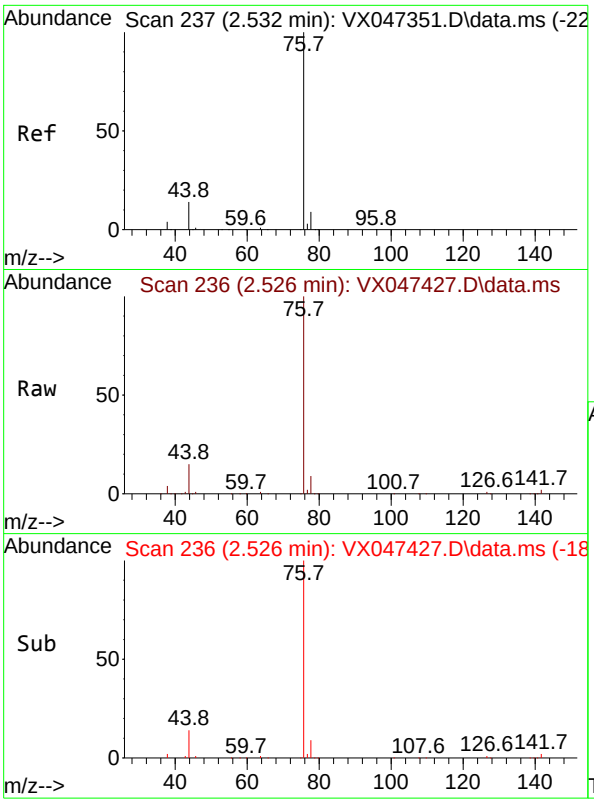


#16
Acetone
Concen: 290.885 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 43 Resp: 339865

Ion	Ratio	Lower	Upper
43	100		
58	29.8	24.8	37.2



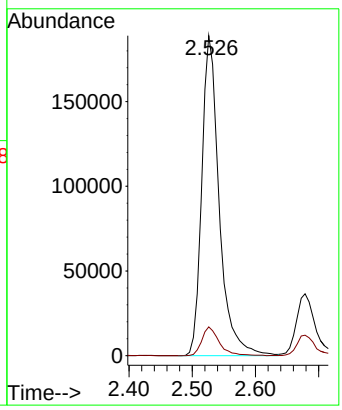


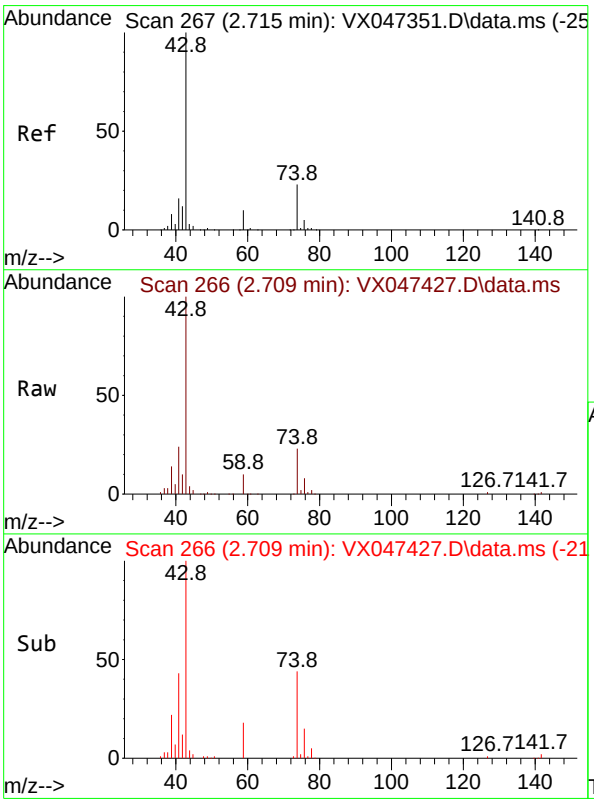
#17
Carbon Disulfide
Concen: 43.008 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 362926

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8

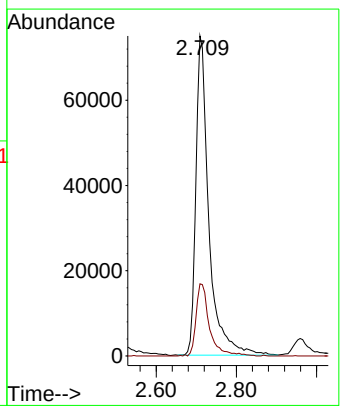


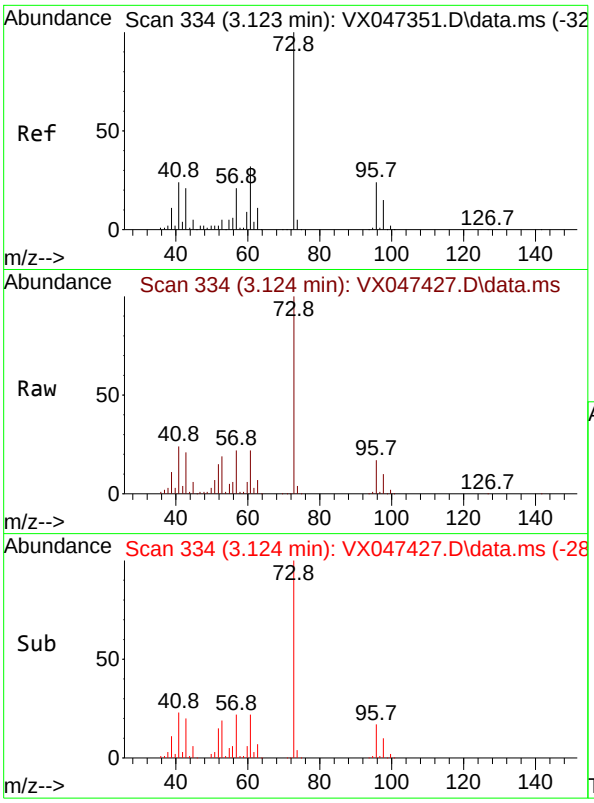


#18
Methyl Acetate
Concen: 55.608 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 43 Resp: 168367

Ion	Ratio	Lower	Upper
43	100		
74	23.4	18.4	27.6



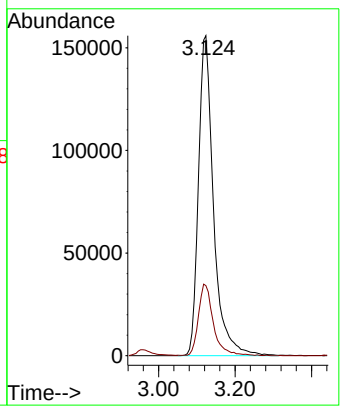


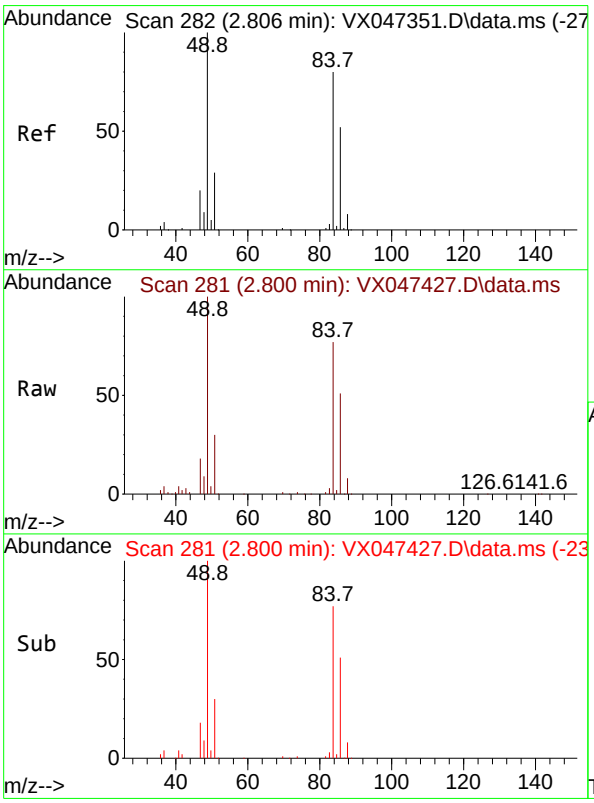
#19
Methyl tert-butyl Ether
Concen: 50.130 ug/l
RT: 3.124 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 426473

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.0	25.6

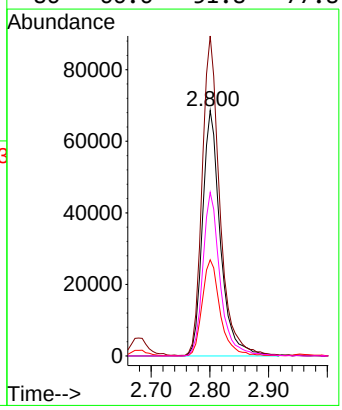


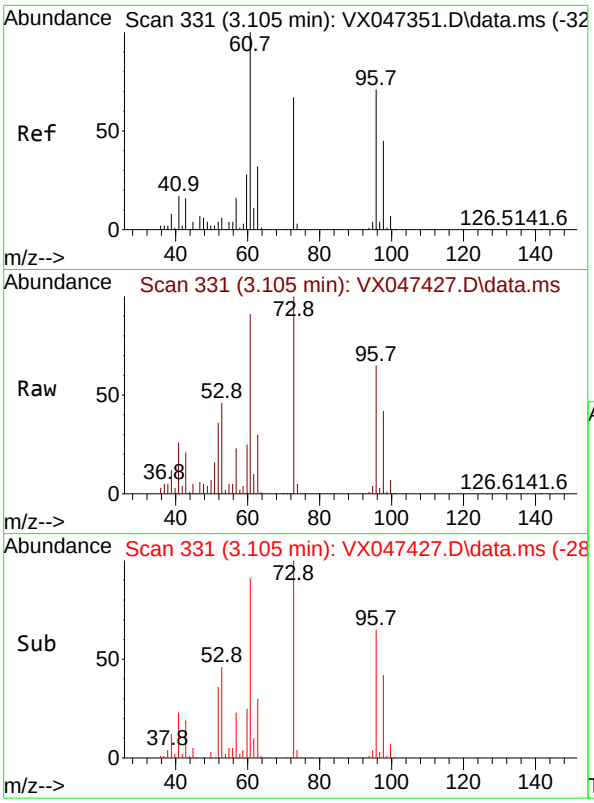


#20
Methylene Chloride
Concen: 46.976 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 84 Resp: 145340

Ion	Ratio	Lower	Upper
84	100		
49	130.2	100.1	150.1
51	39.1	29.5	44.3
86	66.6	51.8	77.8



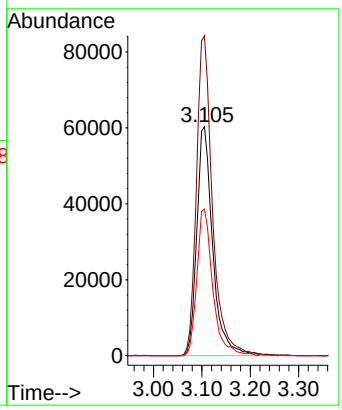


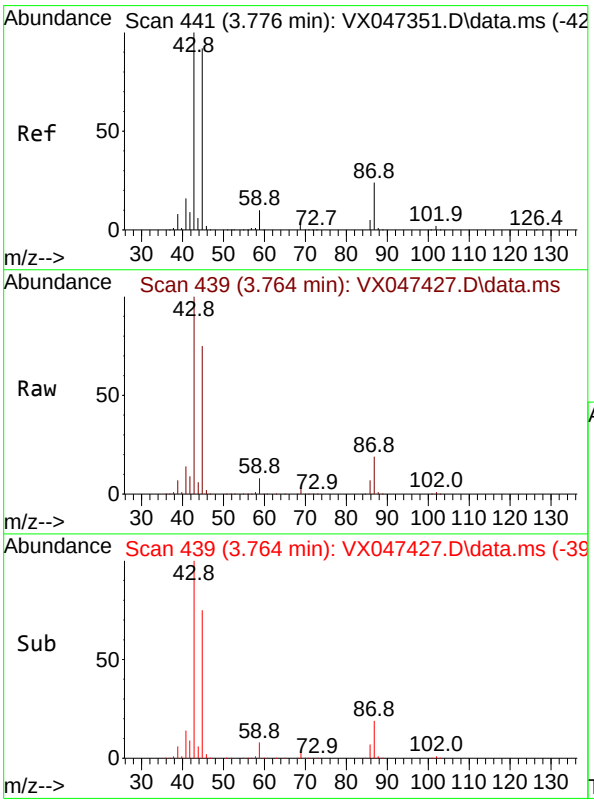
#21
trans-1,2-Dichloroethene
Concen: 46.500 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 138016

Ion	Ratio	Lower	Upper
96	100		
61	139.7	112.6	169.0
98	64.0	50.9	76.3

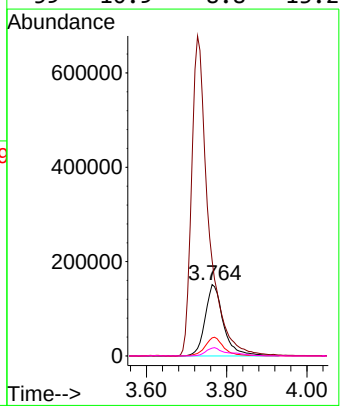


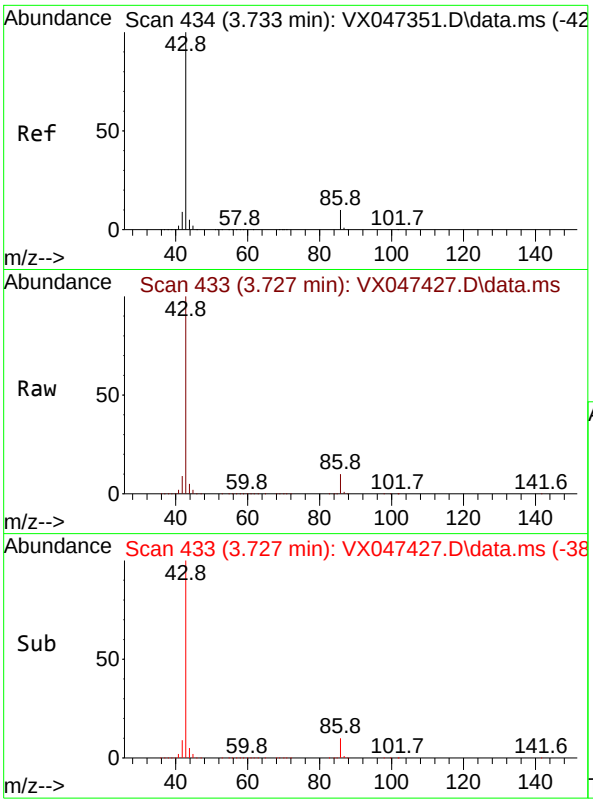


#22
Diisopropyl ether
Concen: 49.981 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.012 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 45 Resp: 479860

Ion	Ratio	Lower	Upper
45	100		
43	133.4	86.8	130.2#
87	25.5	20.4	30.6
59	10.9	8.8	13.2



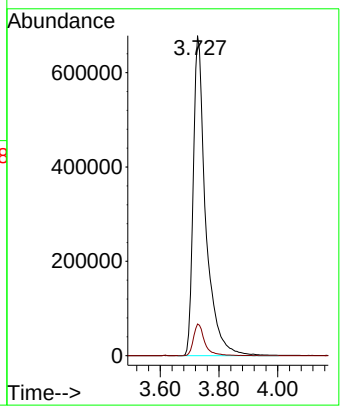


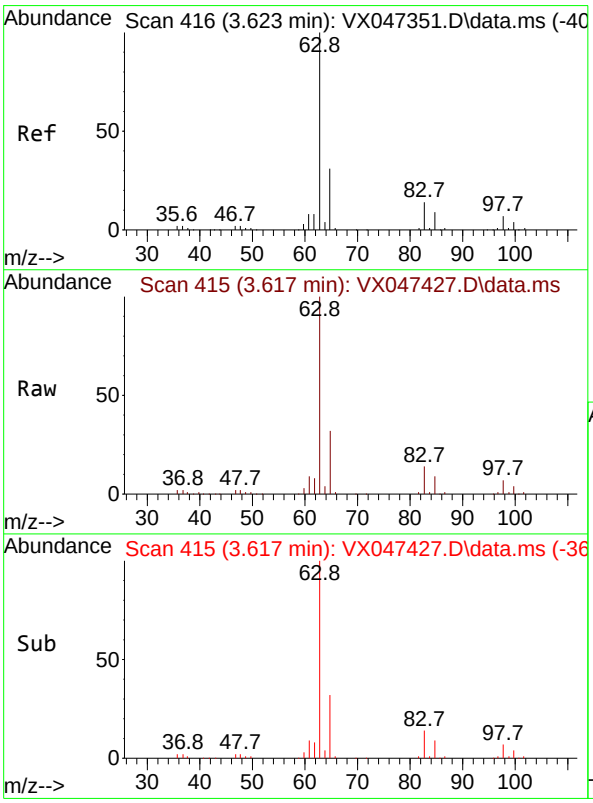
#23
Vinyl Acetate
Concen: 254.613 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2003620

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.9	11.9

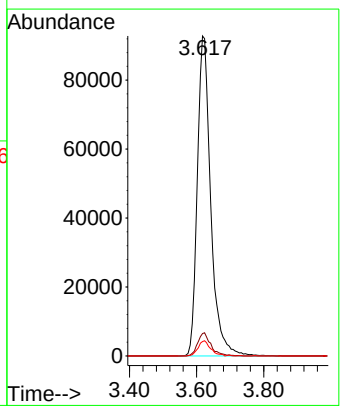


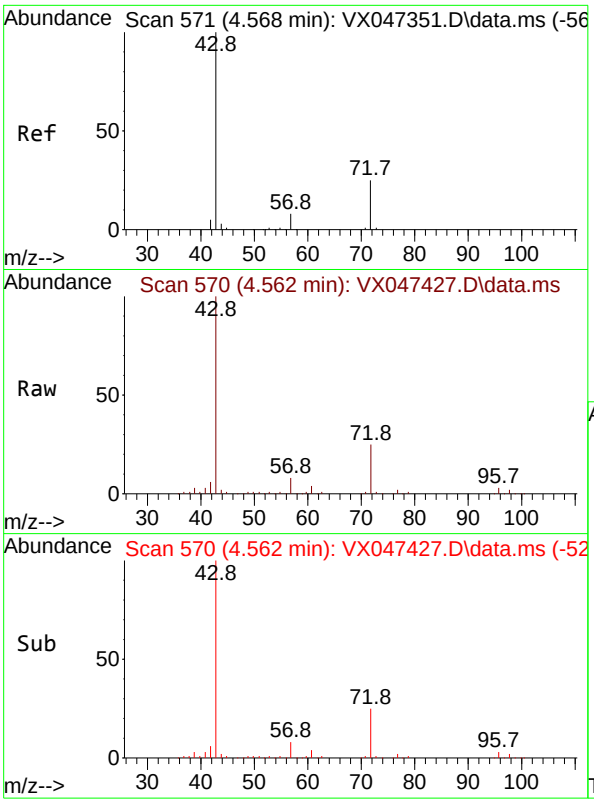


#24
1,1-Dichloroethane
Concen: 47.405 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 63 Resp: 257251

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.9
100	4.7	2.1	6.3



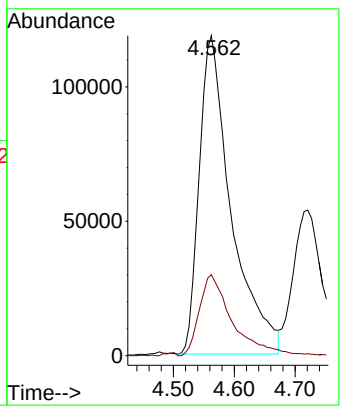


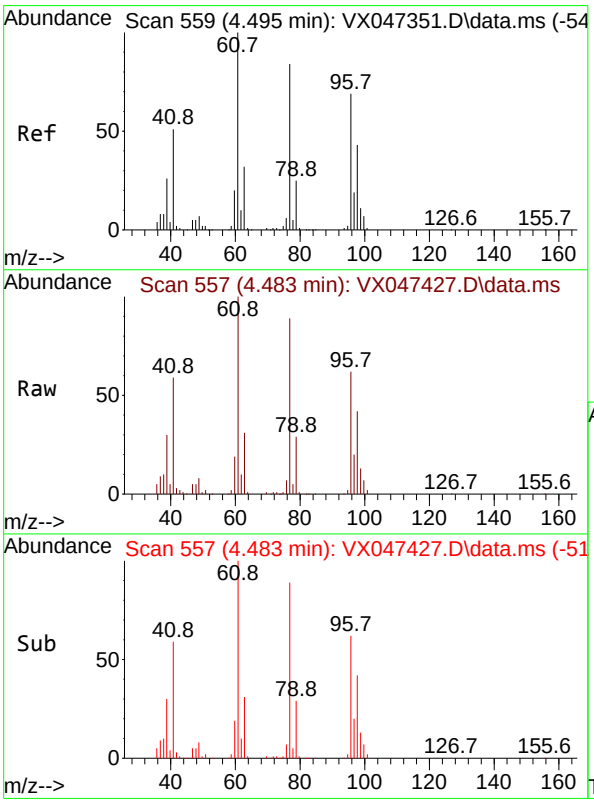
#25
2-Butanone
Concen: 282.551 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 432361

Ion	Ratio	Lower	Upper
43	100		
72	25.4	19.8	29.8

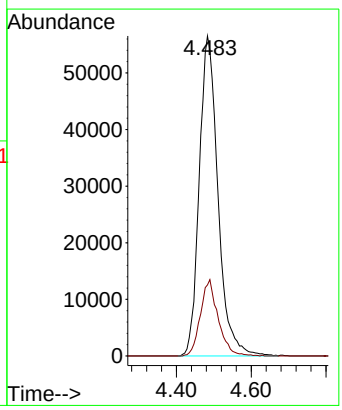


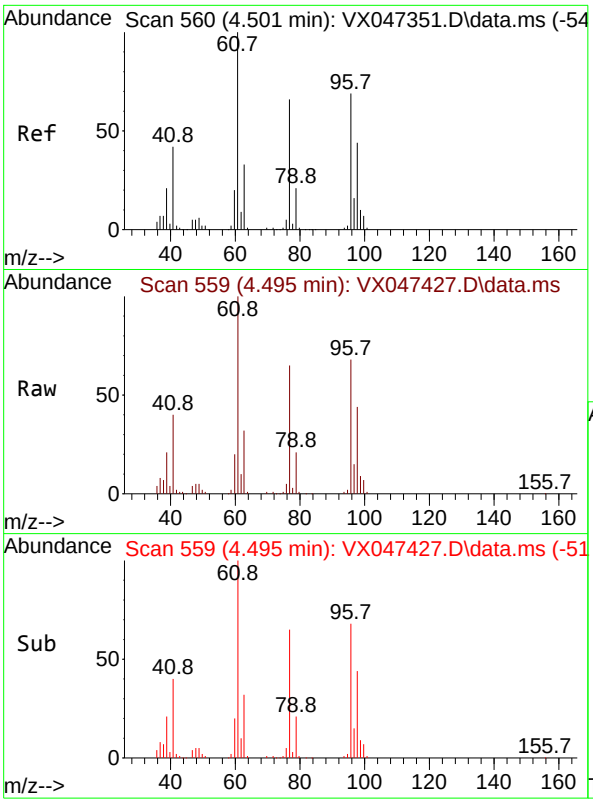


#26
2,2-Dichloropropane
Concen: 47.981 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.012 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 77 Resp: 196523

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.4	34.1



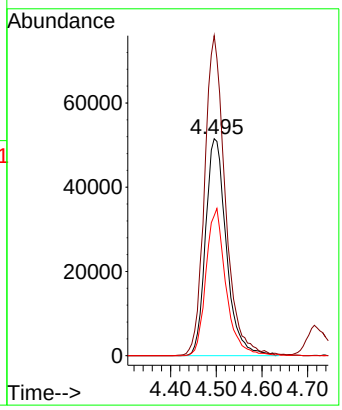


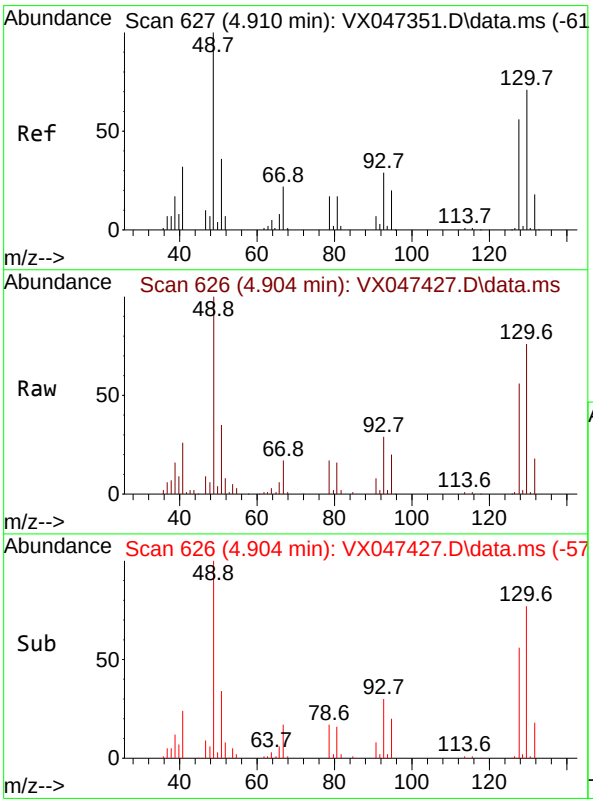
#27
cis-1,2-Dichloroethene
Concen: 47.103 ug/l
RT: 4.495 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 162834

Ion	Ratio	Lower	Upper
96	100		
61	147.3	0.0	296.6
98	65.1	0.0	130.4

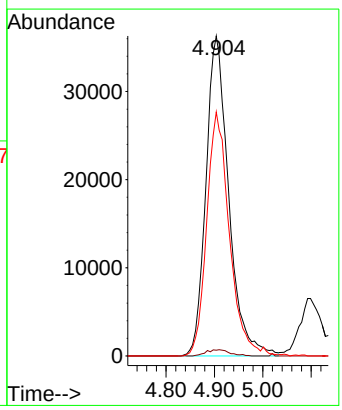


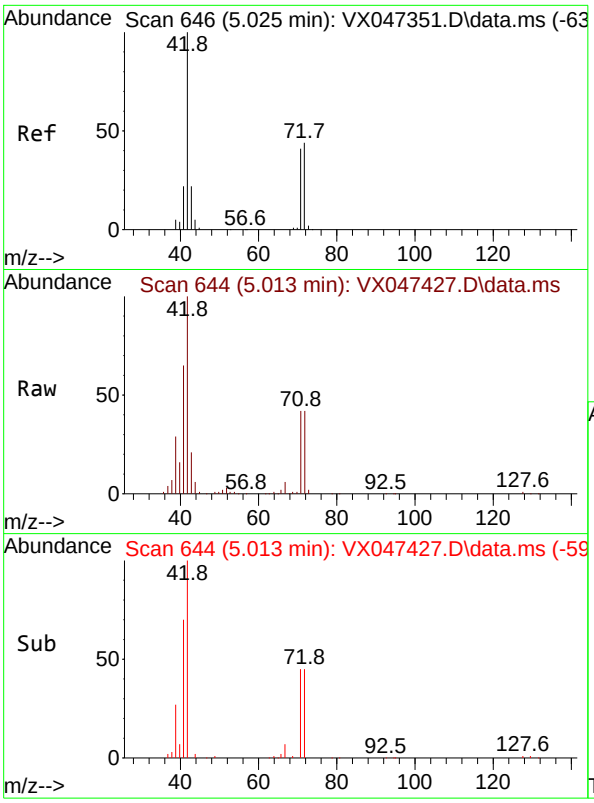


#28
Bromochloromethane
Concen: 52.582 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 49 Resp: 118739

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	76.2	59.8	89.6



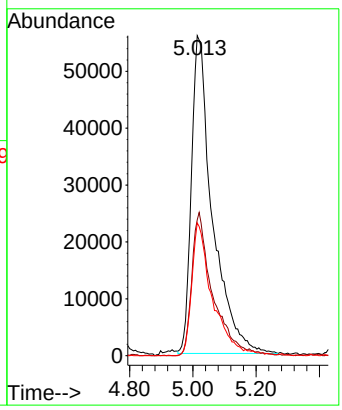


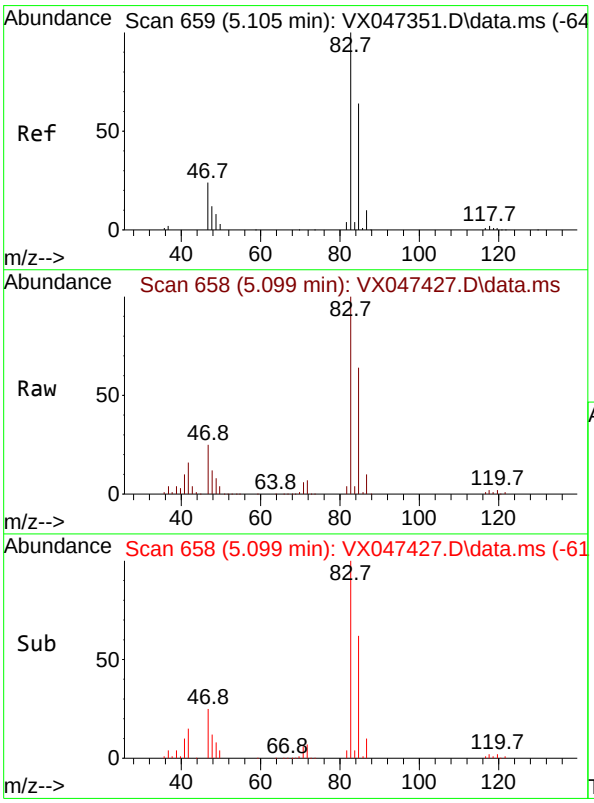
#29
Tetrahydrofuran
Concen: 261.014 ug/l
RT: 5.013 min Scan# 64
Delta R.T. -0.012 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 258151

Ion	Ratio	Lower	Upper
42	100		
72	45.0	34.6	51.8
71	41.1	32.6	49.0

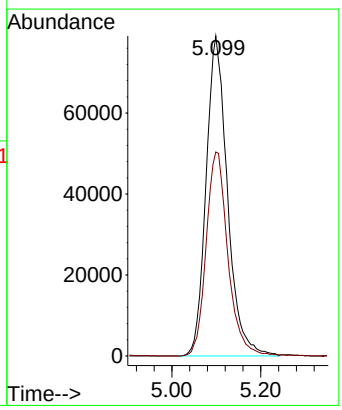


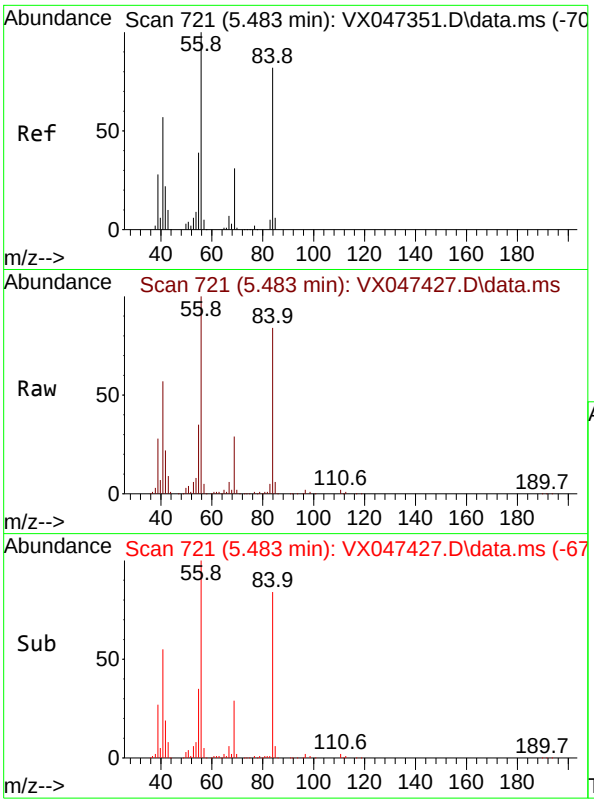


#30
Chloroform
Concen: 47.660 ug/l
RT: 5.099 min Scan# 658
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 83 Resp: 263954

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.2	76.8



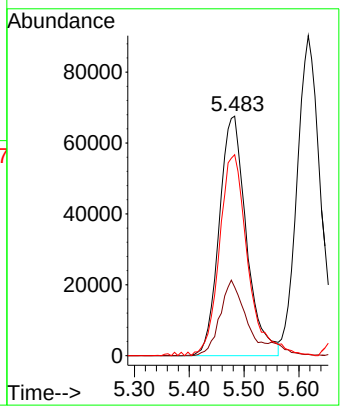


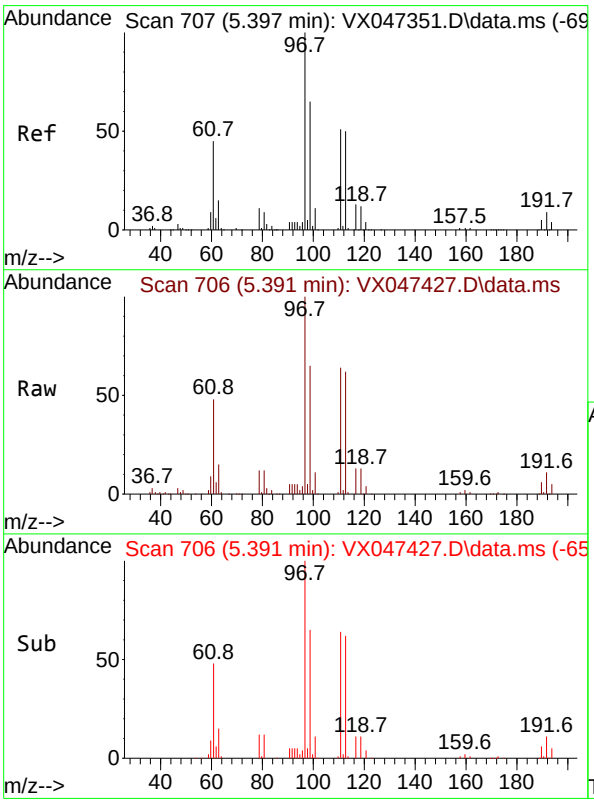
#31
Cyclohexane
Concen: 46.560 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 232913

Ion	Ratio	Lower	Upper
56	100		
69	28.2	24.3	36.5
84	83.8	65.3	97.9

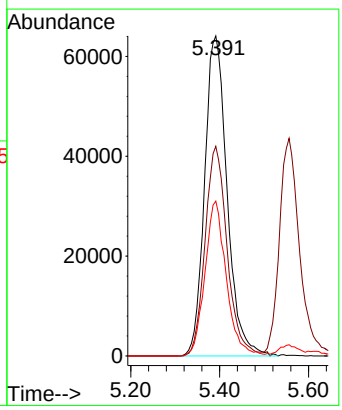


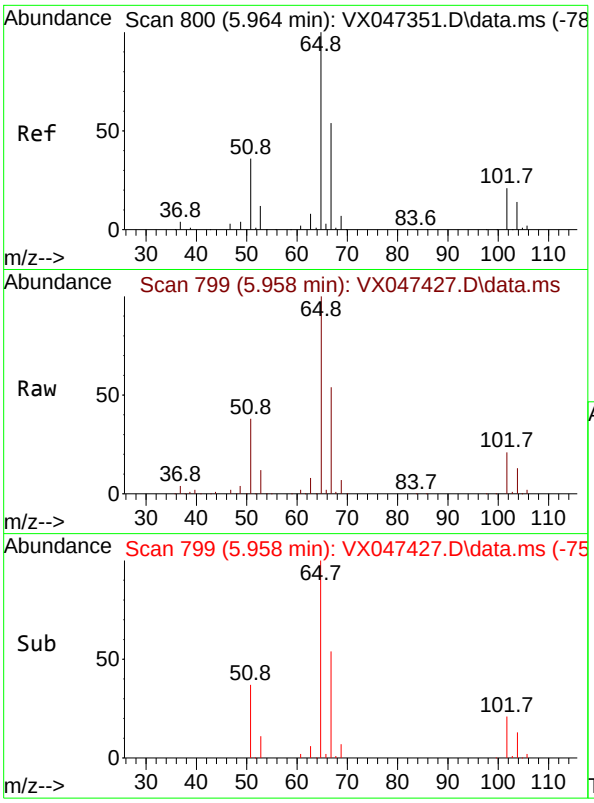


#32
1,1,1-Trichloroethane
Concen: 47.325 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 97 Resp: 225596

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.0
61	45.9	35.7	53.5



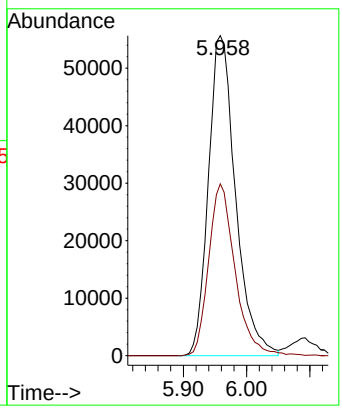


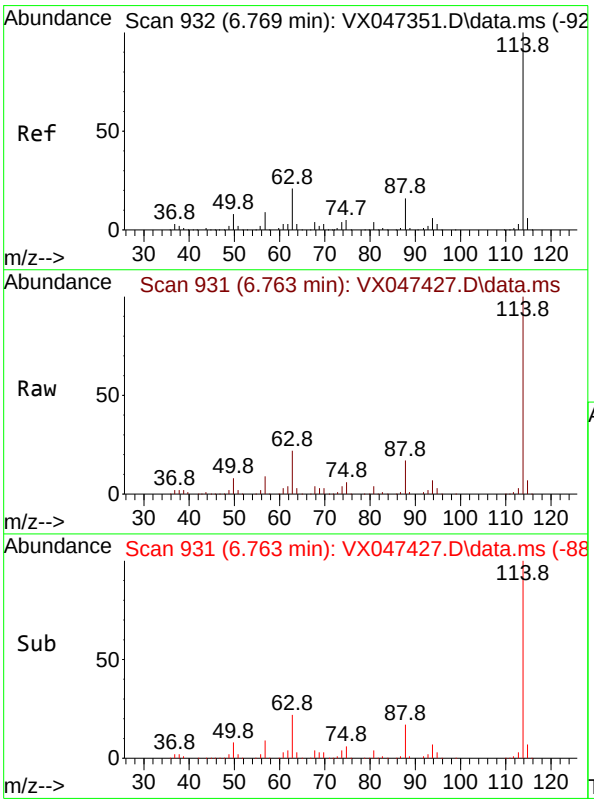
#33
1,2-Dichloroethane-d4
Concen: 53.348 ug/l
RT: 5.958 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 165825

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	106.0

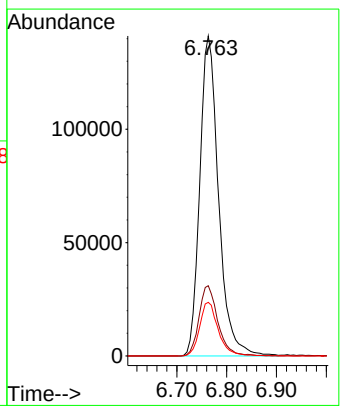


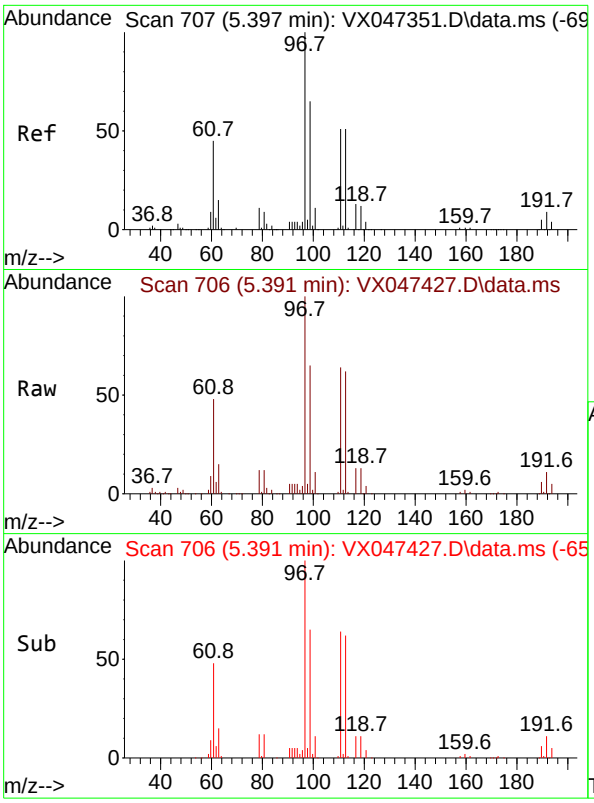


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:114 Resp: 369648

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	42.4
88	16.8	0.0	33.0



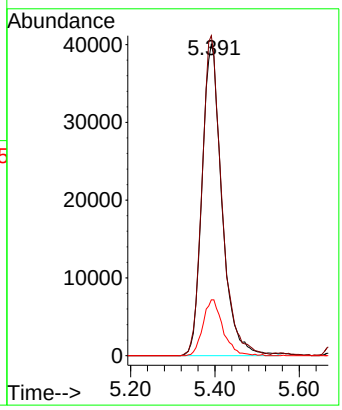


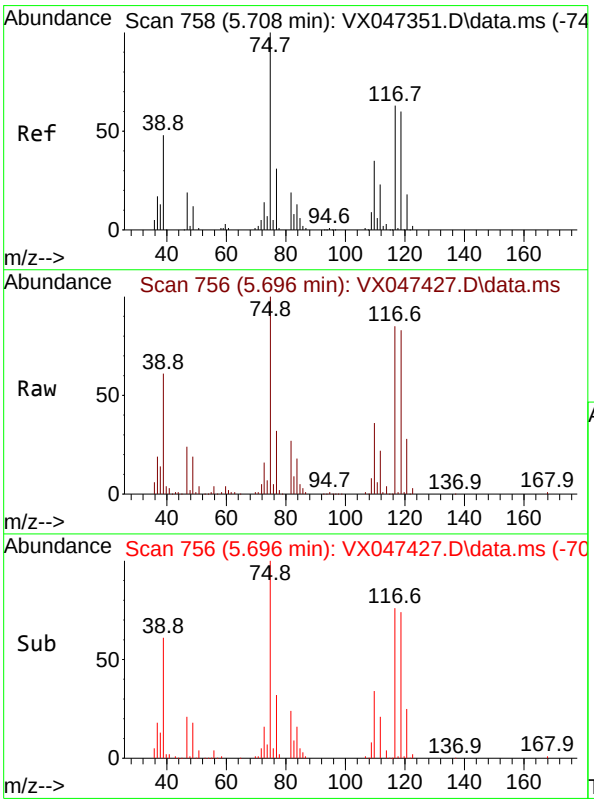
#35
Dibromofluoromethane
Concen: 54.744 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 131333

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.4	122.2
192	18.1	14.1	21.1

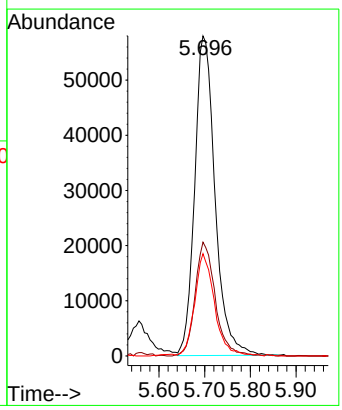


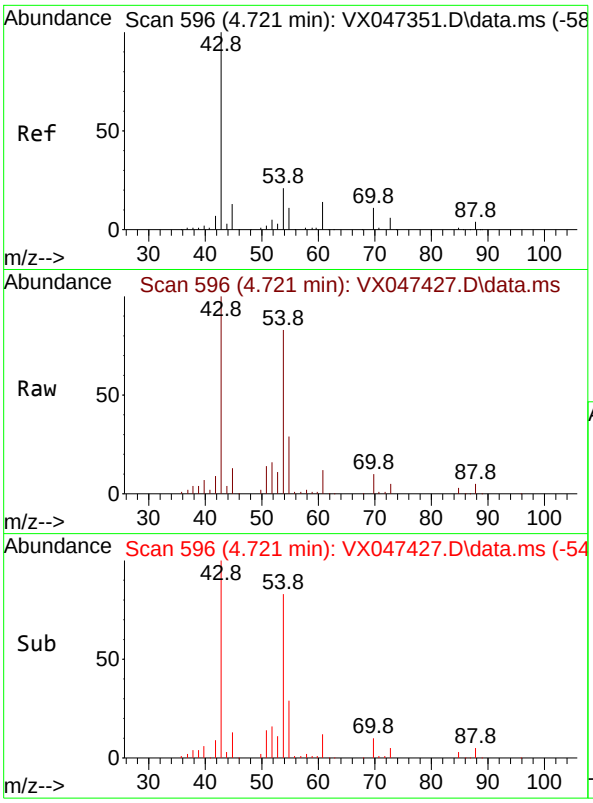


#36
1,1-Dichloropropene
Concen: 47.379 ug/l
RT: 5.696 min Scan# 756
Delta R.T. -0.012 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 75 Resp: 179428

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.4	52.2
77	31.2	24.4	36.6



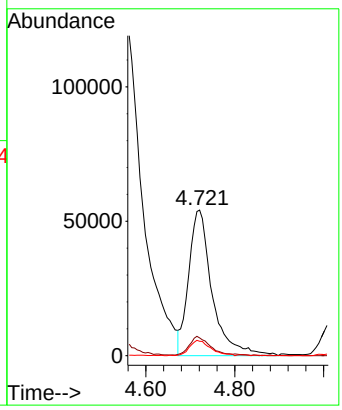


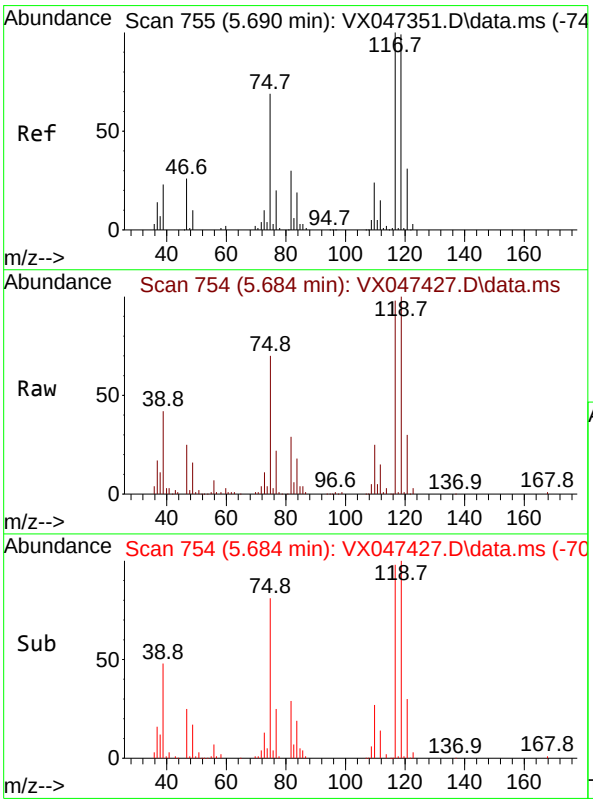
#37
Ethyl Acetate
Concen: 50.571 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 198822

Ion	Ratio	Lower	Upper
43	100		
61	11.7	9.4	14.2
70	9.4	7.0	10.6

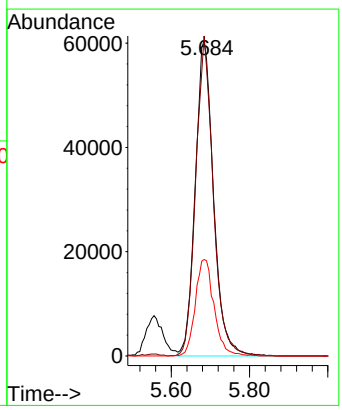


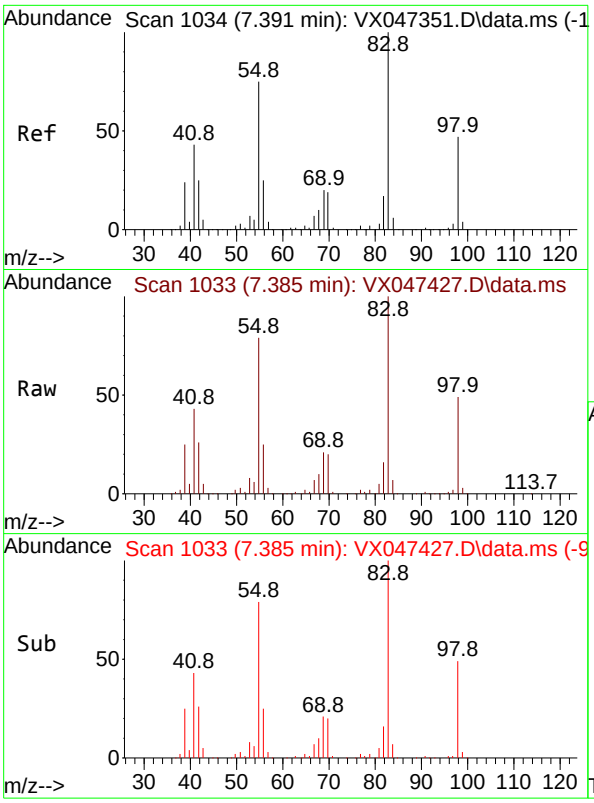


#38
Carbon Tetrachloride
Concen: 47.480 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:117 Resp: 196495

Ion	Ratio	Lower	Upper
117	100		
119	101.6	78.5	117.7
121	30.6	24.7	37.1



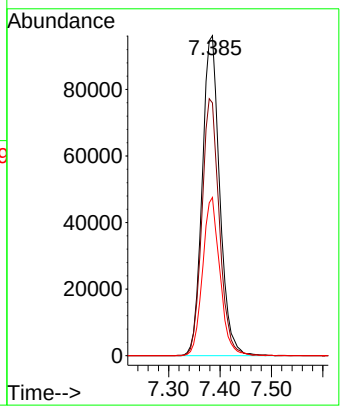


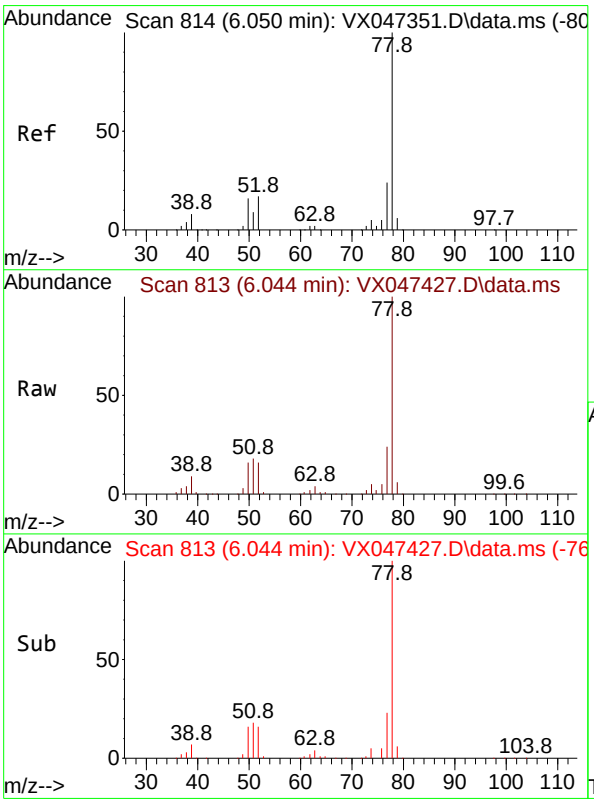
#39
Methylcyclohexane
Concen: 48.139 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 227398

Ion	Ratio	Lower	Upper
83	100		
55	78.9	60.0	90.0
98	49.5	37.2	55.8

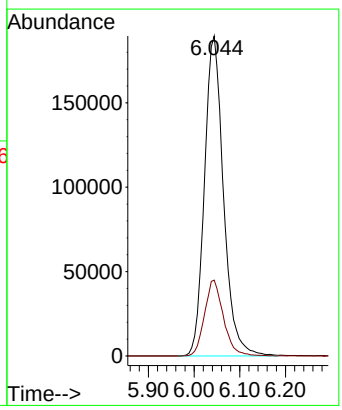


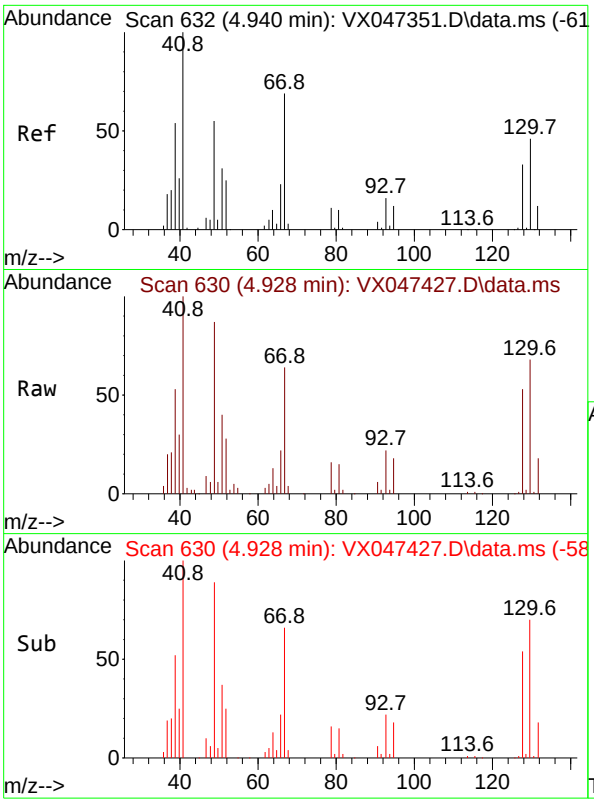


#40
Benzene
Concen: 48.393 ug/l
RT: 6.044 min Scan# 813
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 78 Resp: 548553

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4



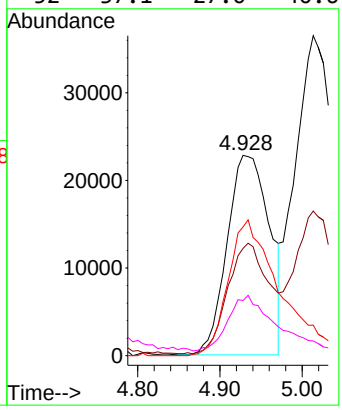


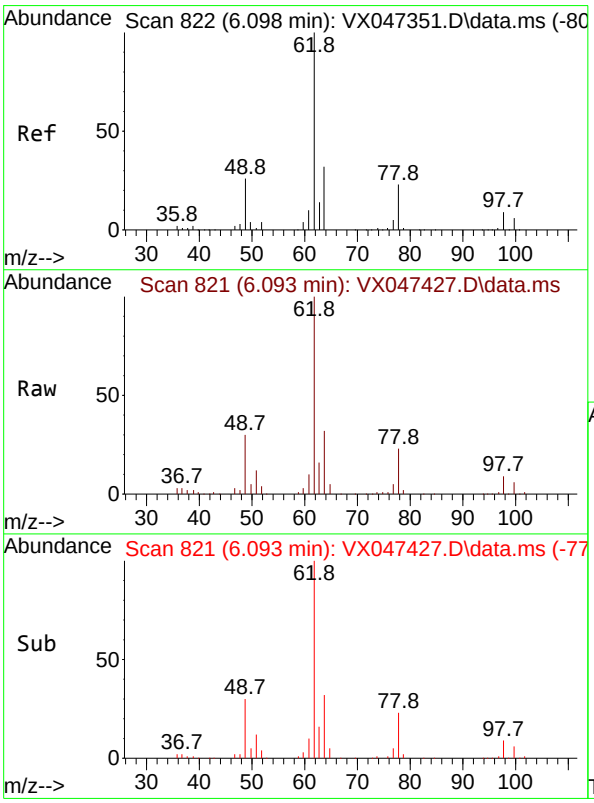
#41
Methacrylonitrile
Concen: 49.094 ug/l
RT: 4.928 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 81393

Ion	Ratio	Lower	Upper
41	100		
39	53.5	45.4	68.2
67	86.5	64.0	96.0
52	37.1	27.0	40.6

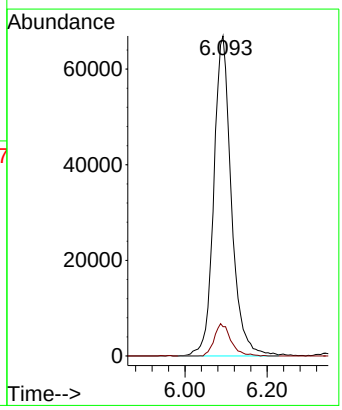


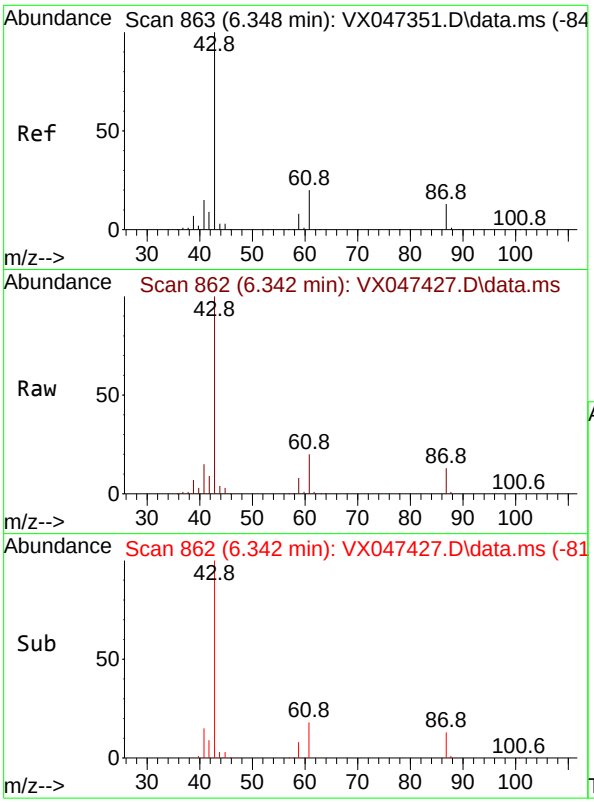


#42
1,2-Dichloroethane
Concen: 49.602 ug/l
RT: 6.093 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 62 Resp: 199161

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.0



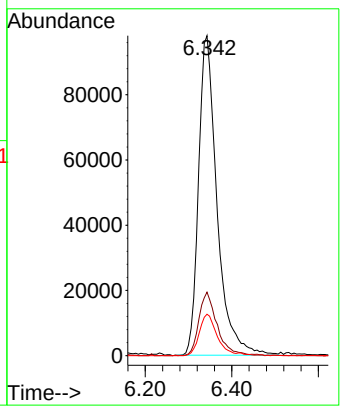


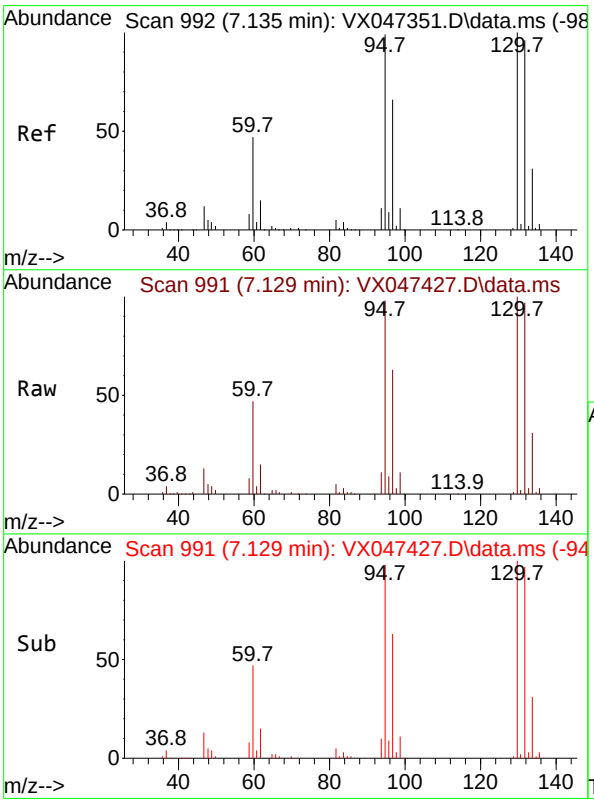
#43
Isopropyl Acetate
Concen: 51.437 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 290517

Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.4	23.0
87	12.7	10.2	15.4

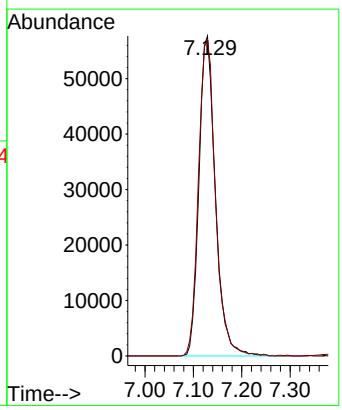


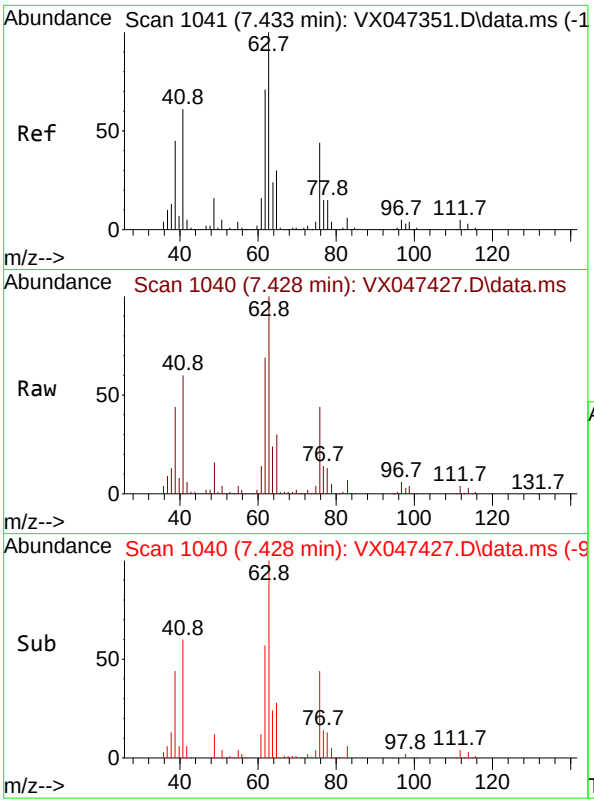


#44
Trichloroethene
Concen: 46.924 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:130 Resp: 136195

Ion	Ratio	Lower	Upper
130	100		
95	98.3	0.0	198.6



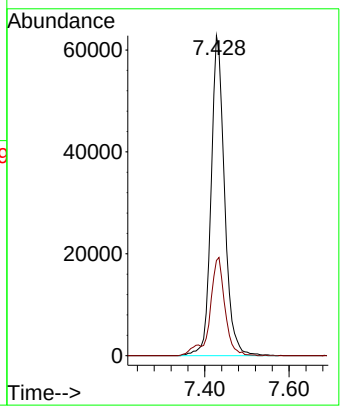


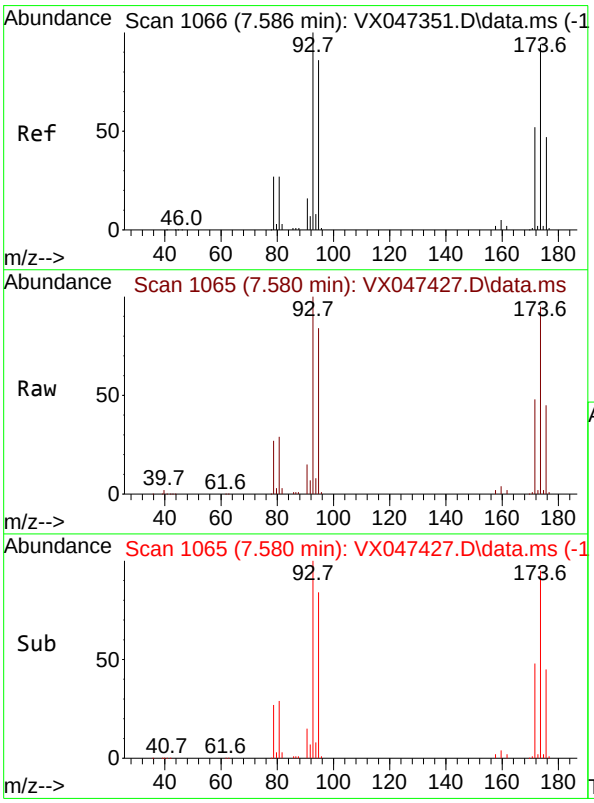
#45
1,2-Dichloropropane
Concen: 49.152 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 139581

Ion	Ratio	Lower	Upper
63	100		
65	29.8	23.8	35.6

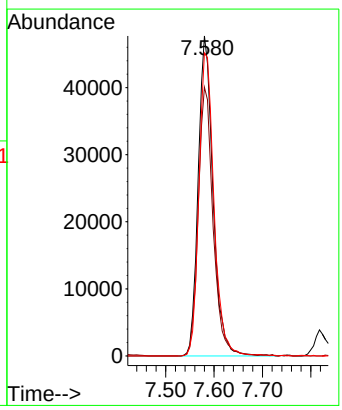


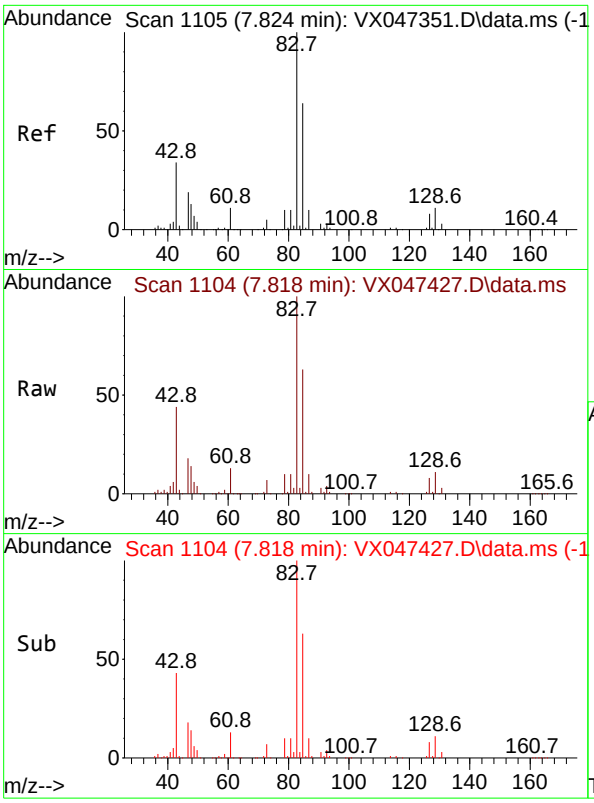


#46
Dibromomethane
Concen: 49.216 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 93 Resp: 101467

Ion	Ratio	Lower	Upper
93	100		
95	84.0	68.0	102.0
174	96.1	75.8	113.6



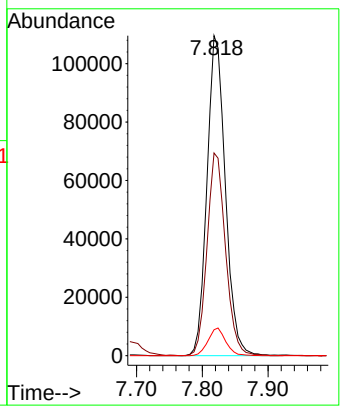


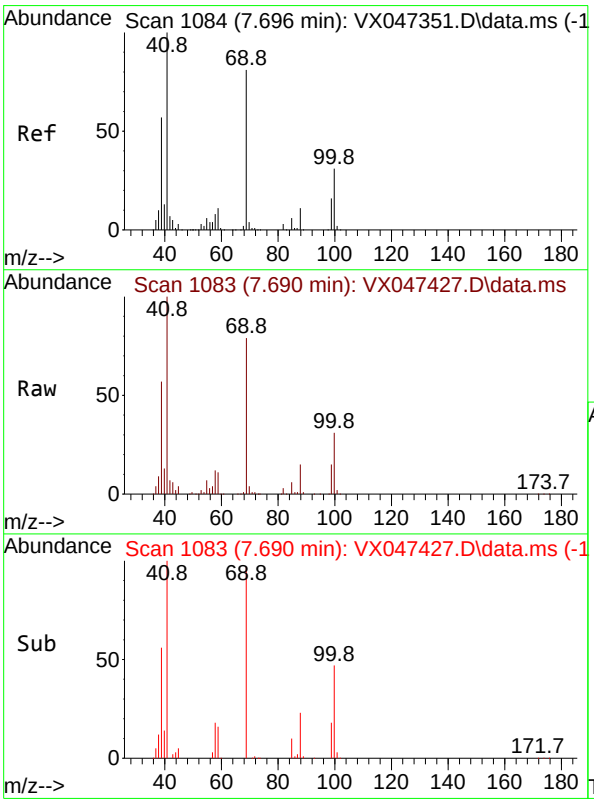
#47
Bromodichloromethane
Concen: 49.856 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 213085

Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.0	76.6
127	8.1	7.0	10.4

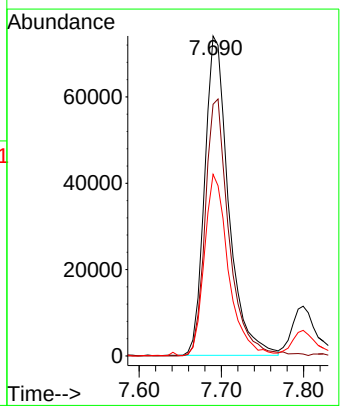


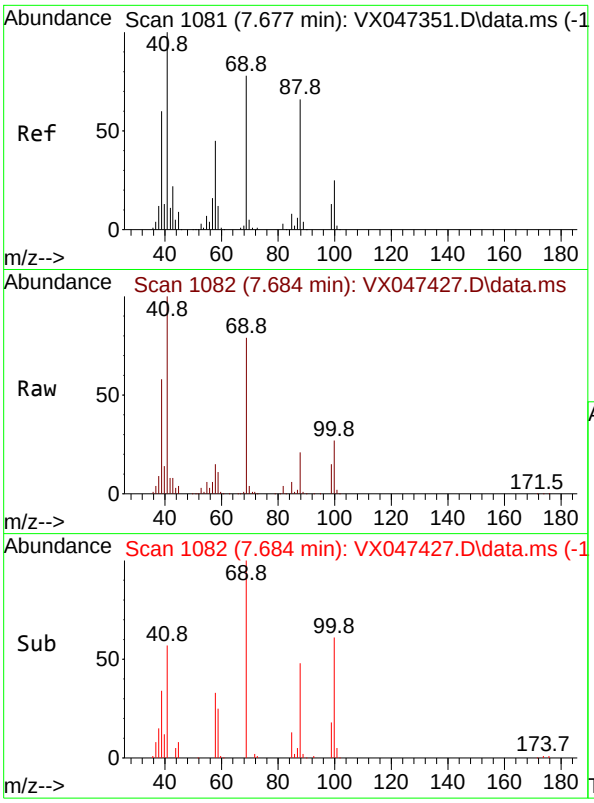


#48
Methyl methacrylate
Concen: 51.141 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 41 Resp: 149931

Ion	Ratio	Lower	Upper
41	100		
69	80.5	65.0	97.4
39	56.9	45.7	68.5



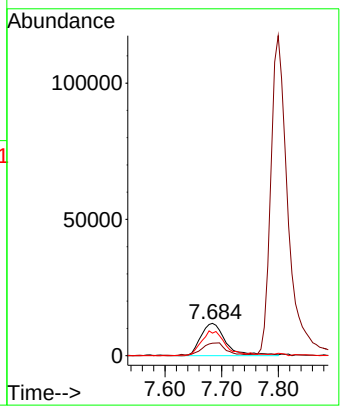


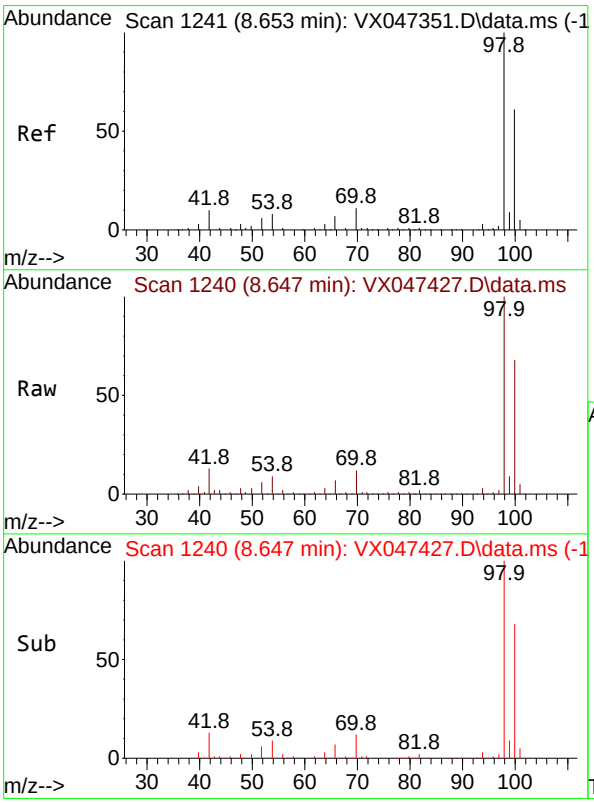
#49
1,4-Dioxane
Concen: 1275.197 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 36343

Ion	Ratio	Lower	Upper
88	100		
43	33.9	32.4	48.6
58	70.8	56.9	85.3

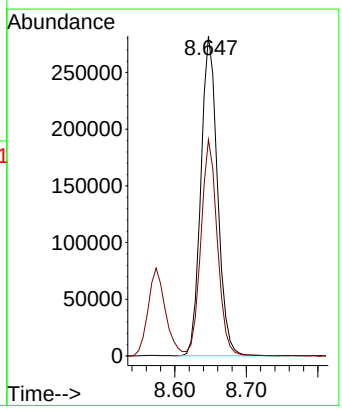


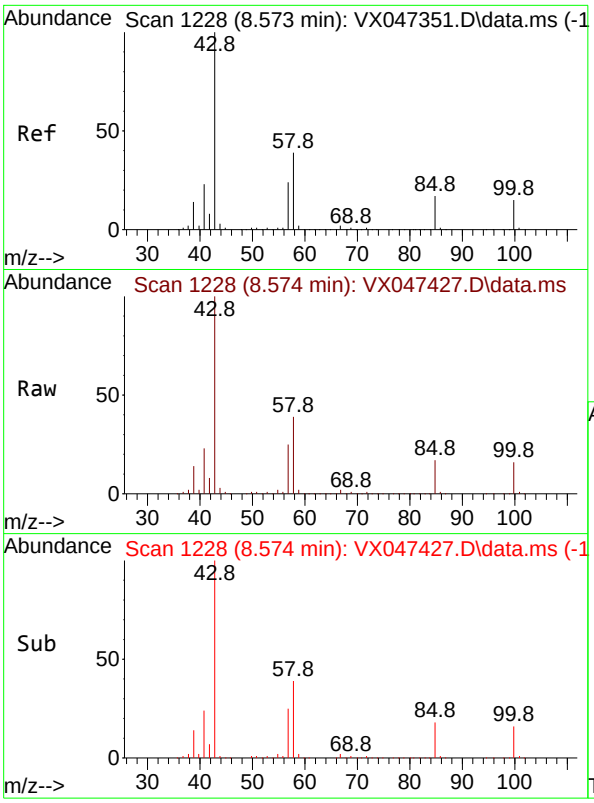


#50
Toluene-d8
Concen: 53.057 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 98 Resp: 454952

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.9	80.9



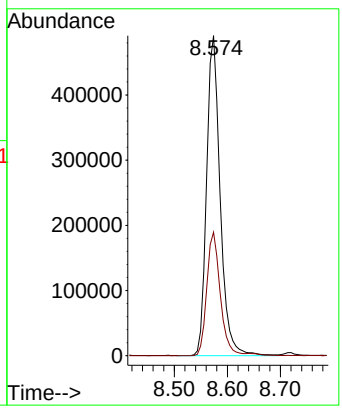


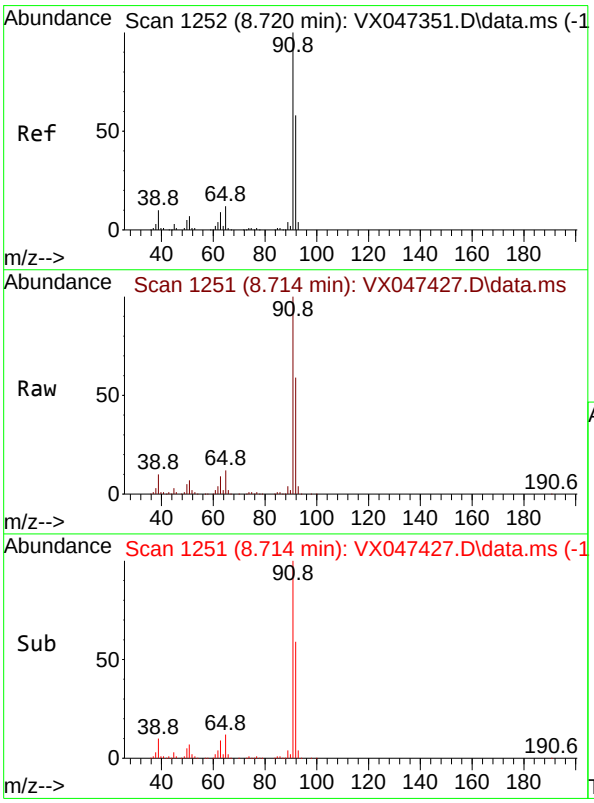
#51
4-Methyl-2-Pentanone
Concen: 268.005 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 871077

Ion	Ratio	Lower	Upper
43	100		
58	38.3	31.2	46.8

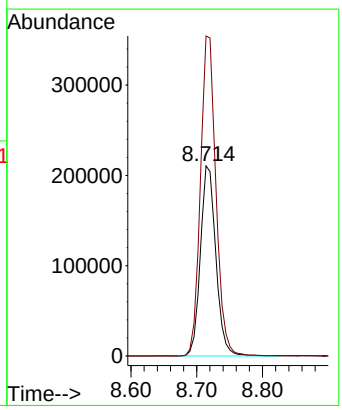


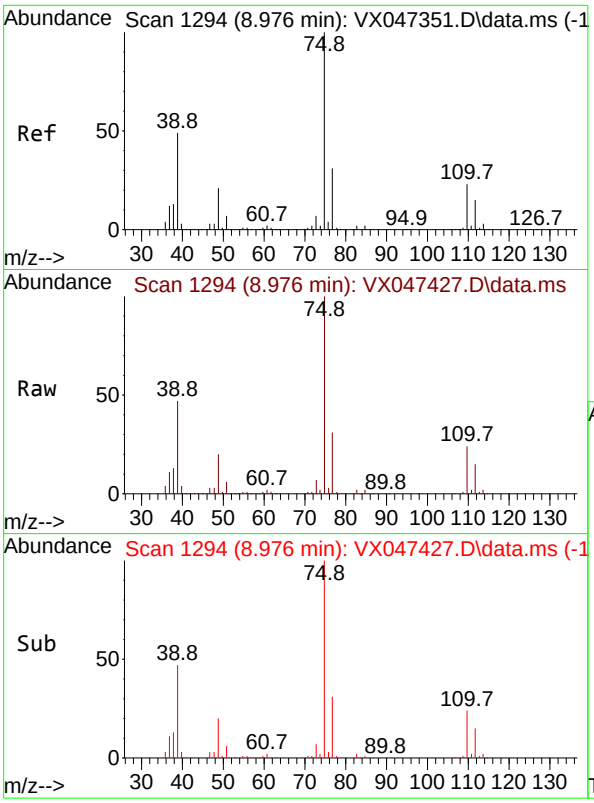


#52
Toluene
Concen: 49.011 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 92 Resp: 343297

Ion	Ratio	Lower	Upper
92	100		
91	169.6	136.3	204.5



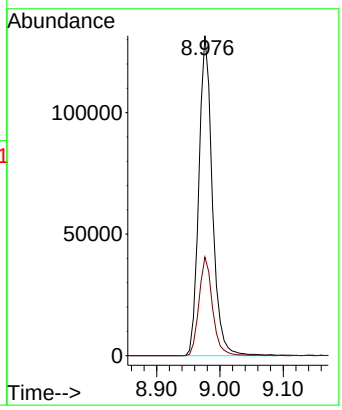


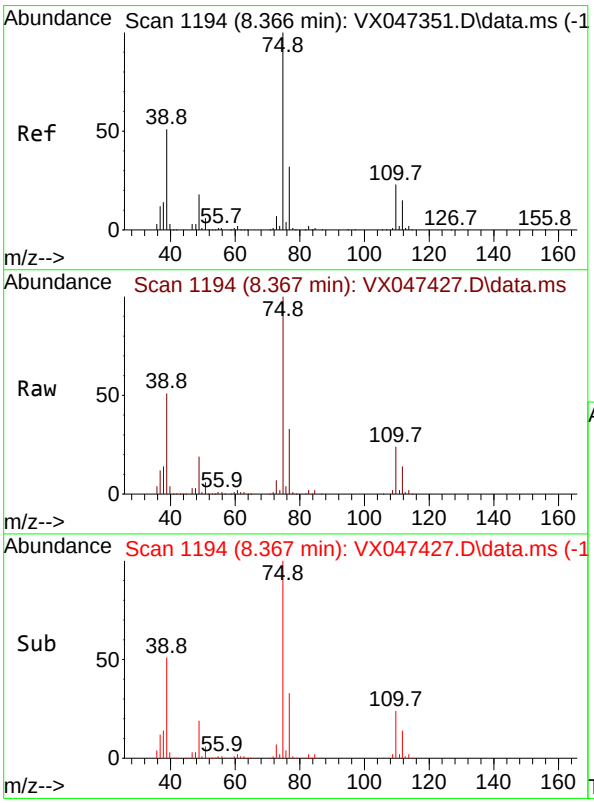
#53
t-1,3-Dichloropropene
Concen: 52.441 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 195614

Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.7	37.1

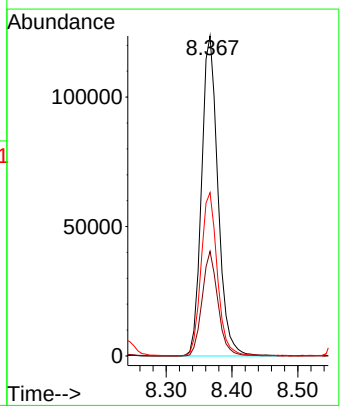


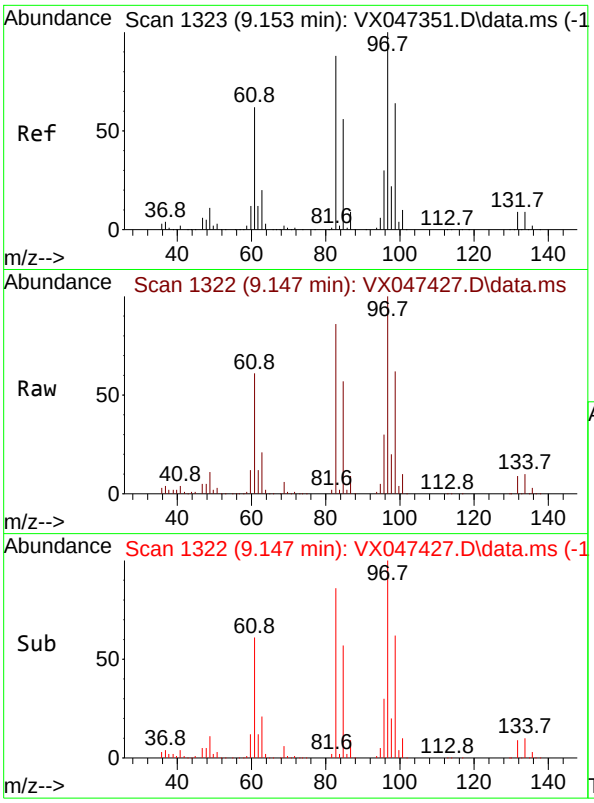


#54
cis-1,3-Dichloropropene
Concen: 50.782 ug/l
RT: 8.367 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 75 Resp: 214406

Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.6	38.4
39	51.0	40.9	61.3



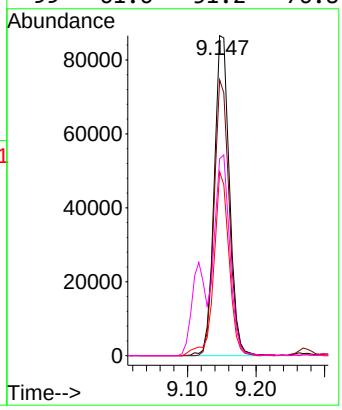


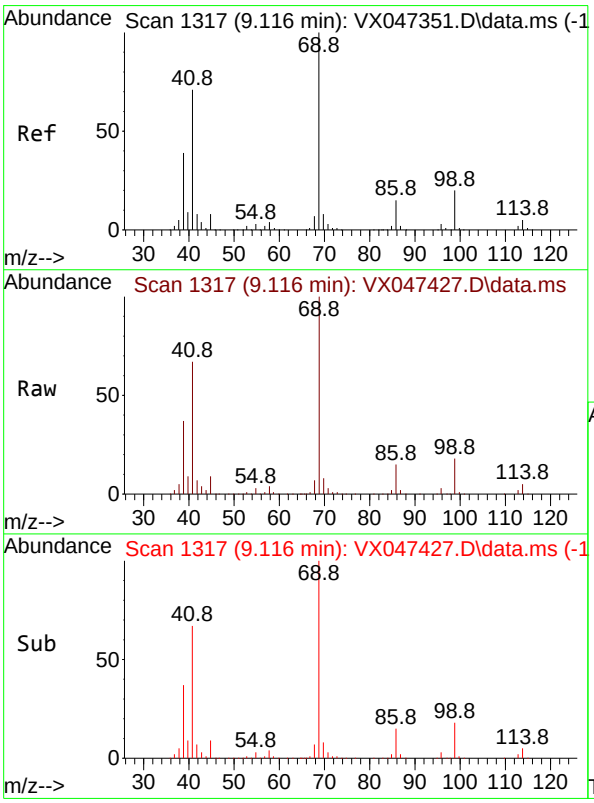
#55
1,1,2-Trichloroethane
Concen: 50.160 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 133399

Ion	Ratio	Lower	Upper
97	100		
83	86.2	70.6	106.0
85	57.5	44.7	67.1
99	61.6	51.2	76.8

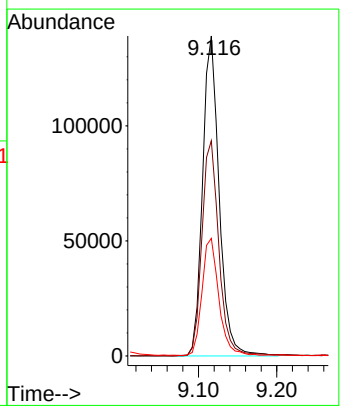


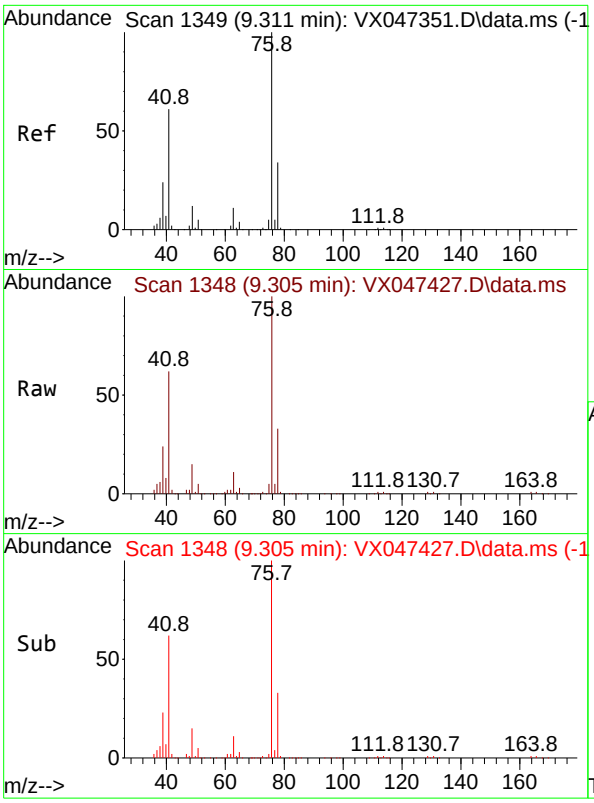


#56
Ethyl methacrylate
Concen: 52.154 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 69 Resp: 204493

Ion	Ratio	Lower	Upper
69	100		
41	69.3	55.3	82.9
39	37.1	30.2	45.2



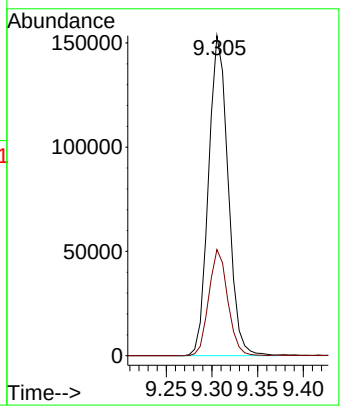


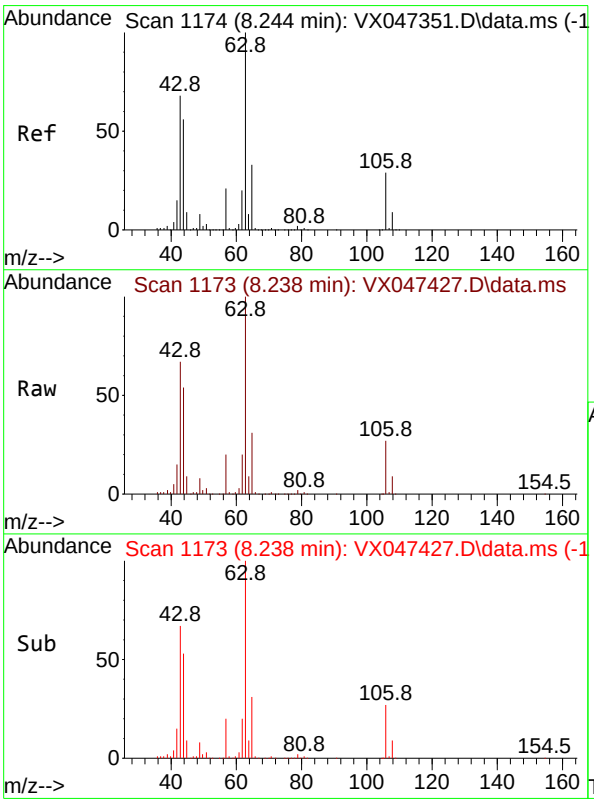
#57
1,3-Dichloropropane
Concen: 50.551 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 229079

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.2	39.2

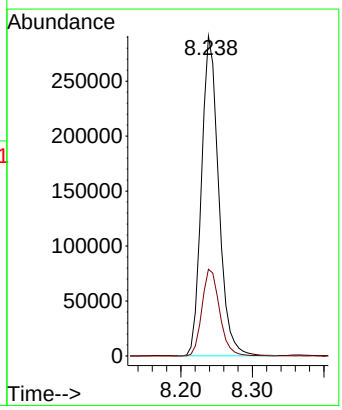


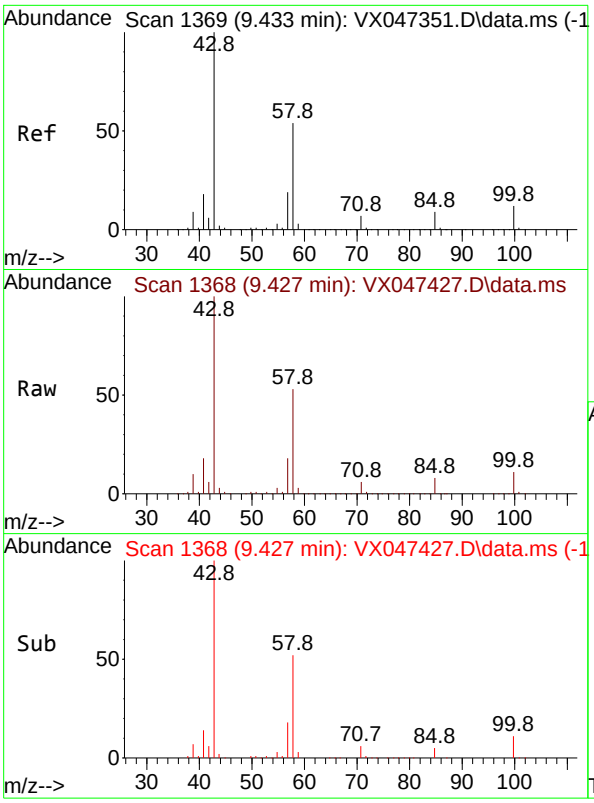


#58
2-Chloroethyl Vinyl ether
Concen: 258.666 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 63 Resp: 484861

Ion	Ratio	Lower	Upper
63	100		
106	27.9	22.8	34.2



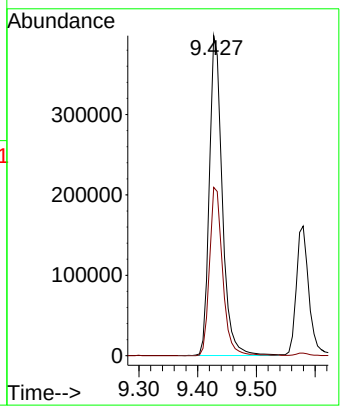


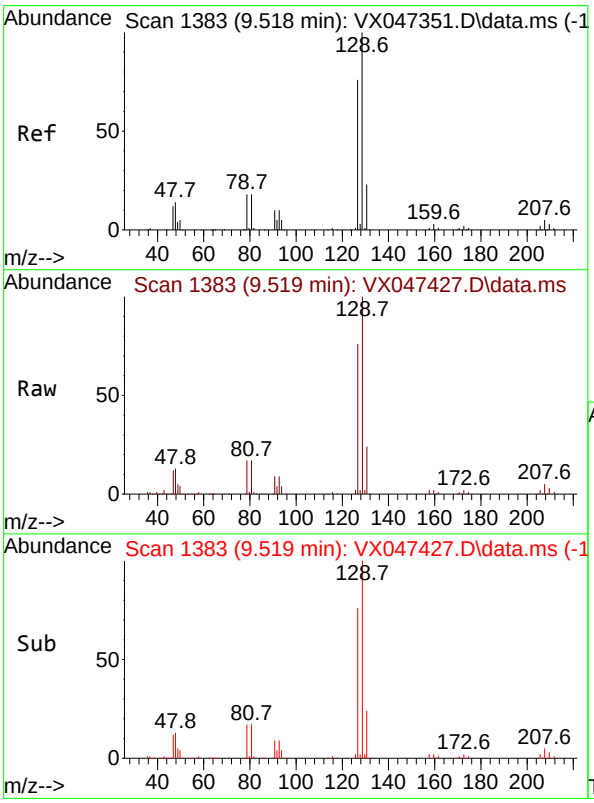
#59
2-Hexanone
Concen: 270.640 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 608467

Ion	Ratio	Lower	Upper
43	100		
58	53.5	26.9	80.7

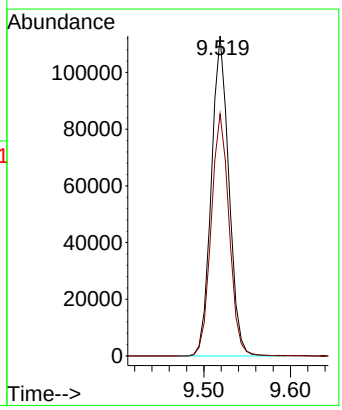


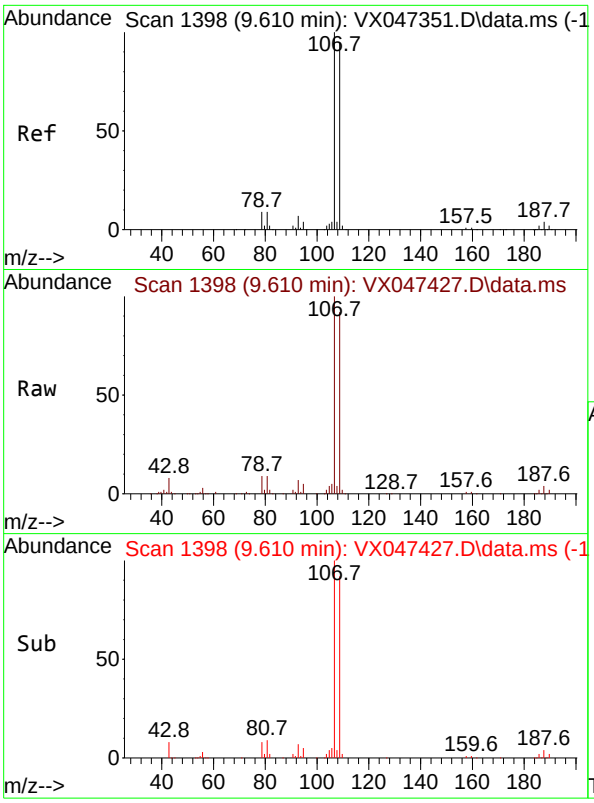


#60
Dibromochloromethane
Concen: 50.268 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:129 Resp: 158872

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.9	116.6



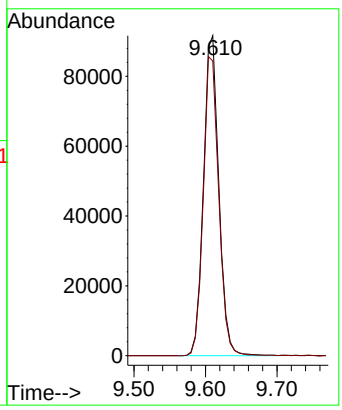


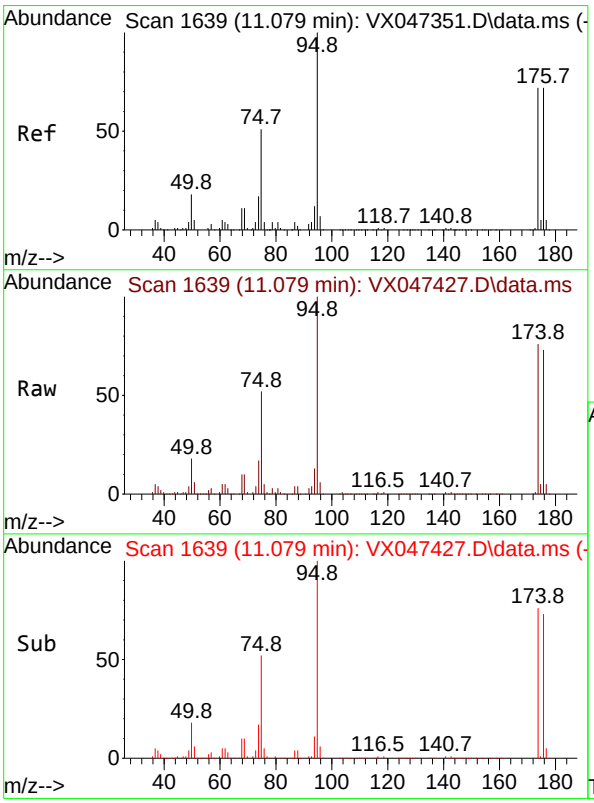
#61
1,2-Dibromoethane
Concen: 49.876 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 136781

Ion	Ratio	Lower	Upper
107	100		
109	93.9	76.2	114.2

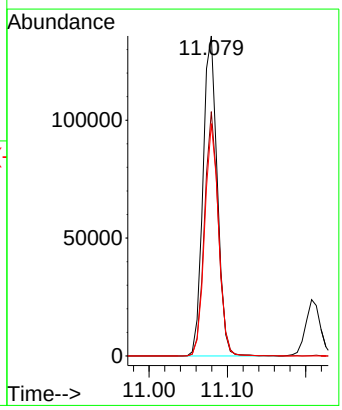


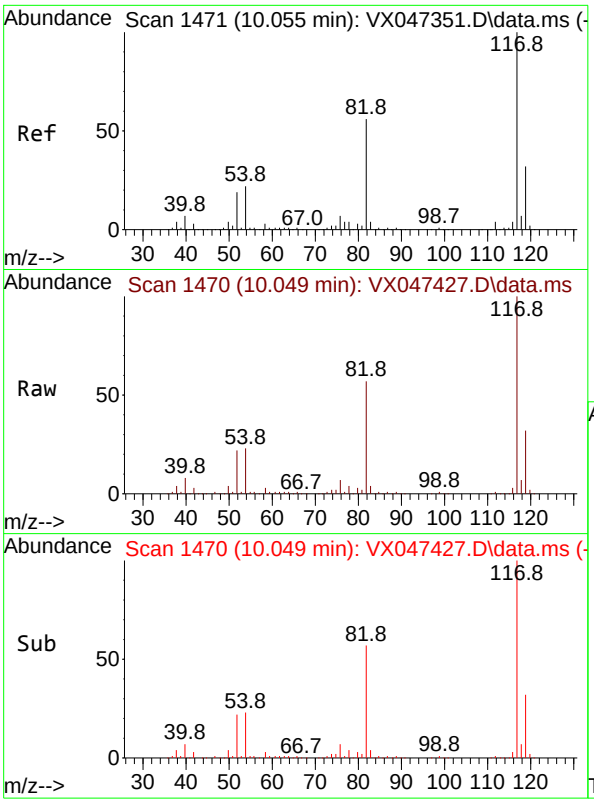


#62
4-Bromofluorobenzene
Concen: 54.278 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 95 Resp: 171750

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	148.0
176	70.6	0.0	145.4



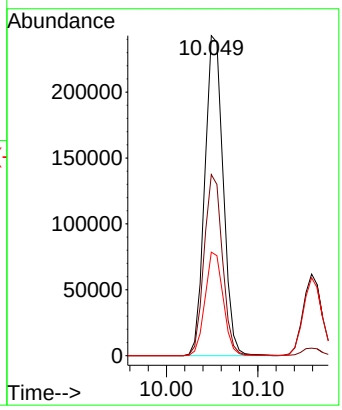


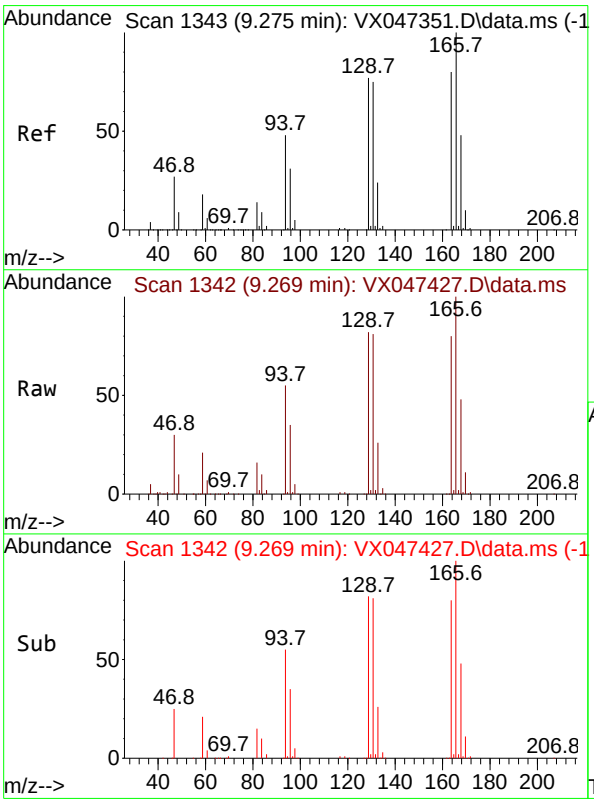
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 338607

Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.0	67.4
119	32.3	25.8	38.8

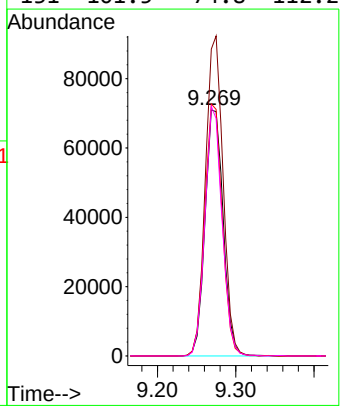


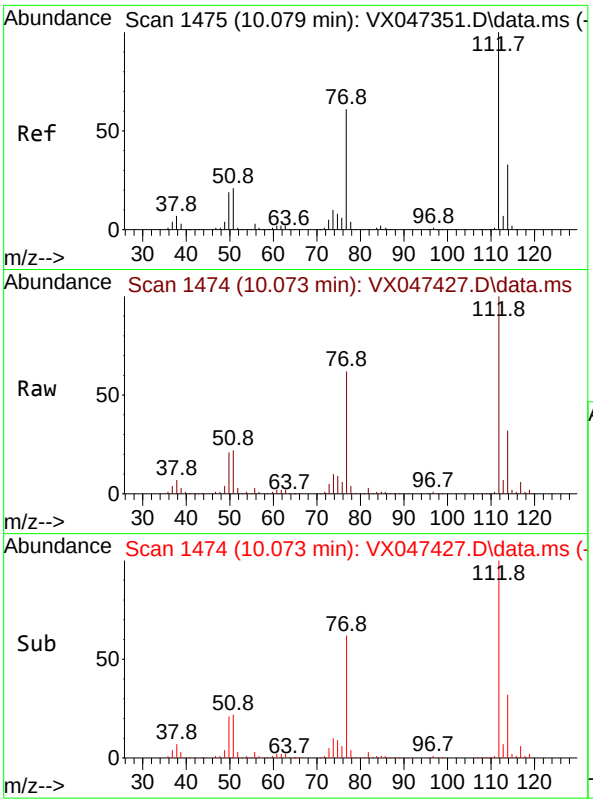


#64
Tetrachloroethene
Concen: 46.376 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:164 Resp: 113583

Ion	Ratio	Lower	Upper
164	100		
166	124.8	100.3	150.5
129	102.5	77.7	116.5
131	101.5	74.8	112.2



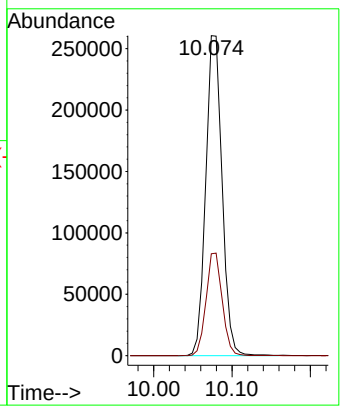


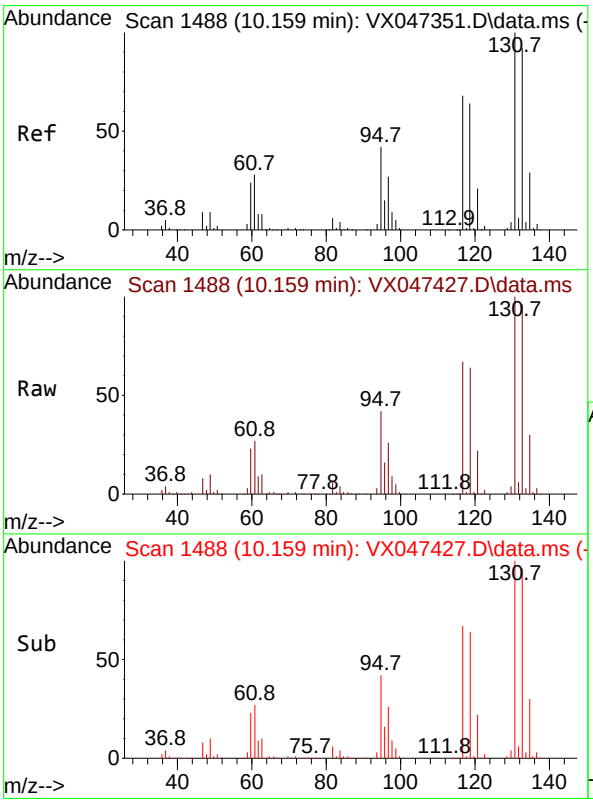
#65
Chlorobenzene
Concen: 46.849 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 376977

Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.4	39.6

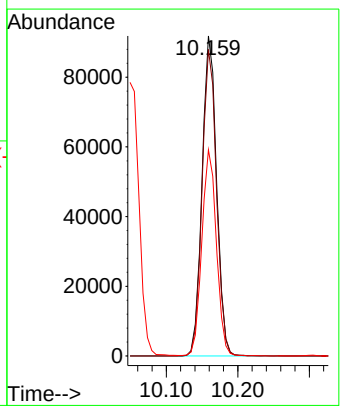


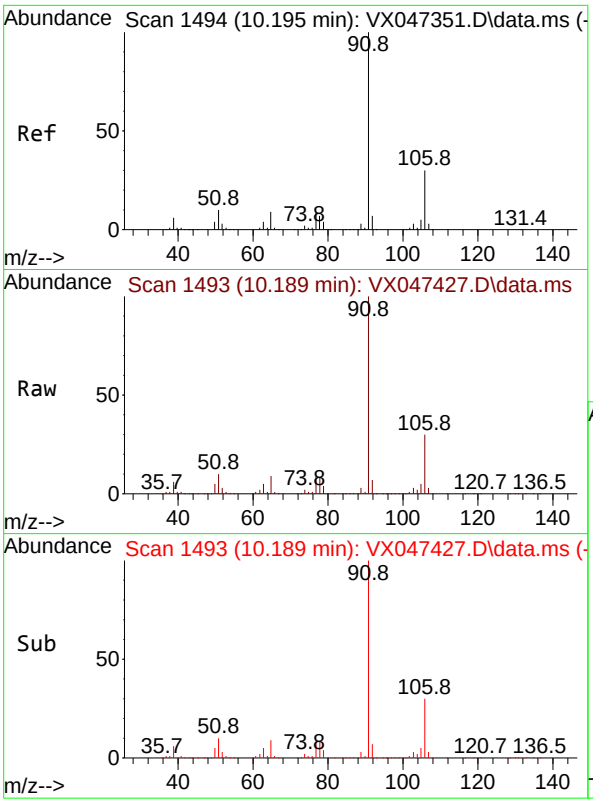


#66
1,1,1,2-Tetrachloroethane
Concen: 47.629 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:131 Resp: 129555

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.6	142.9
119	64.6	32.3	96.8



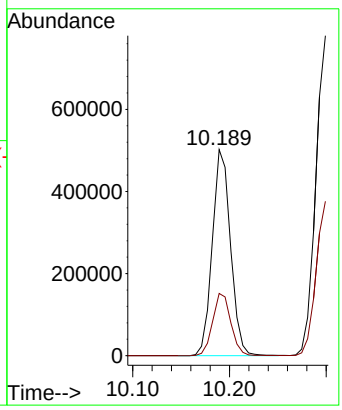


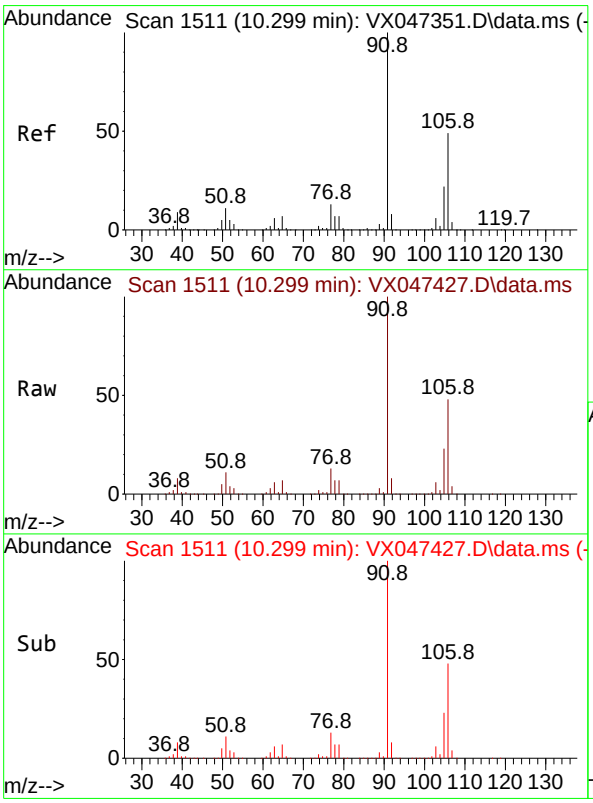
#67
Ethyl Benzene
Concen: 47.382 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 656208

Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.4	36.6

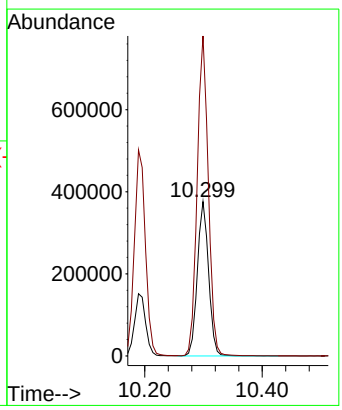


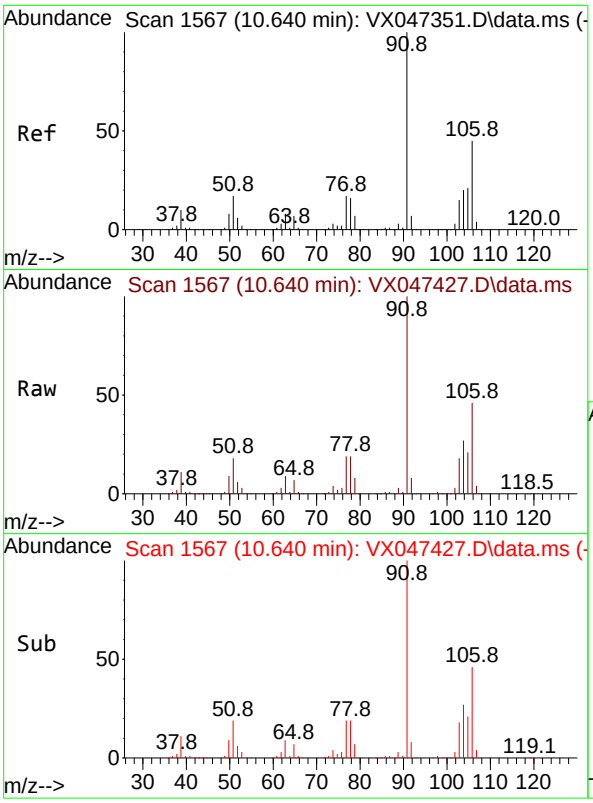


#68
m/p-Xylenes
Concen: 96.706 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:106 Resp: 499398

Ion	Ratio	Lower	Upper
106	100		
91	205.6	164.7	247.1



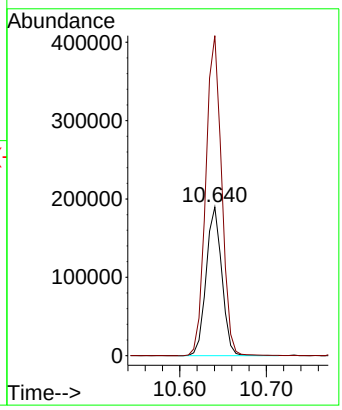


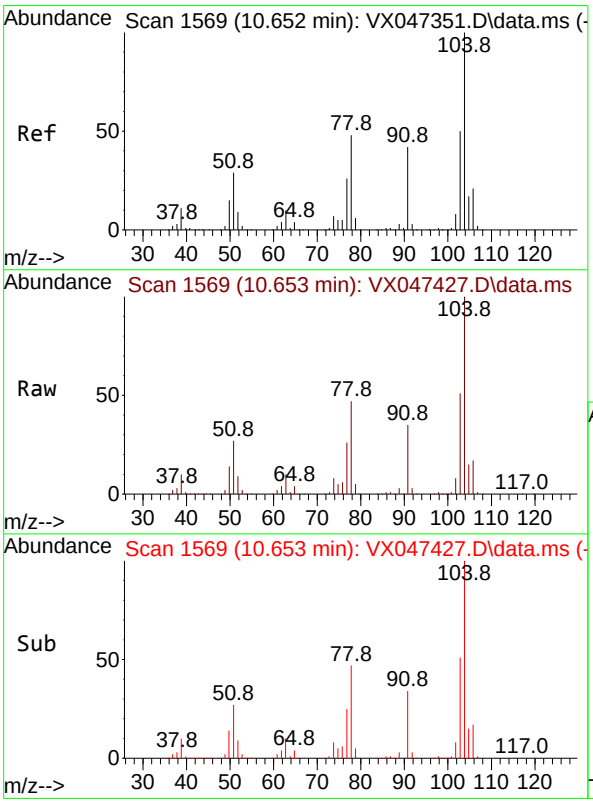
#69
o-Xylene
Concen: 47.927 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 238178

Ion	Ratio	Lower	Upper
106	100		
91	218.4	110.6	331.8

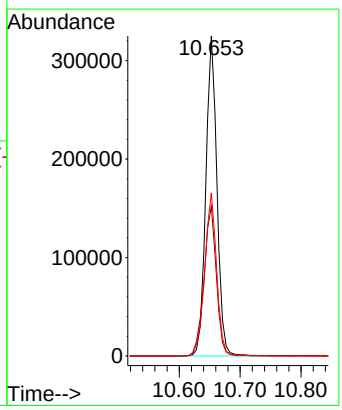


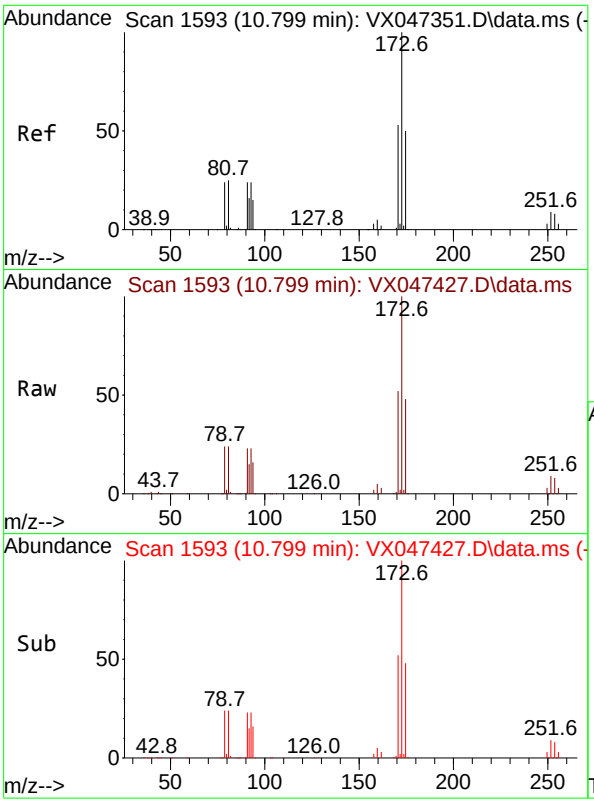


#70
Styrene
Concen: 49.091 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:104 Resp: 412220

Ion	Ratio	Lower	Upper
104	100		
78	52.0	41.8	62.8
103	54.7	43.6	65.4



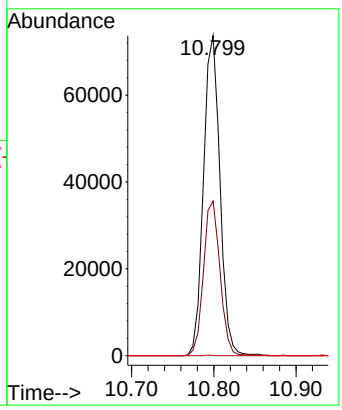


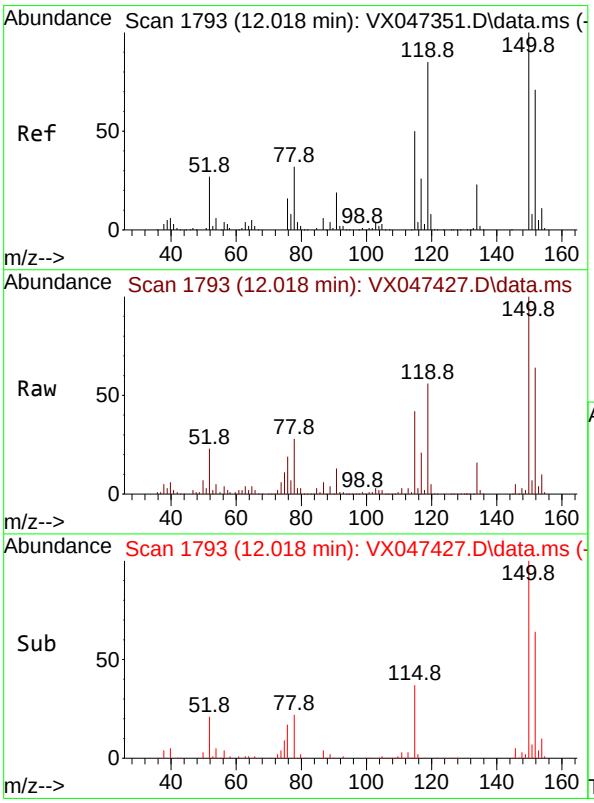
#71
Bromoform
Concen: 50.173 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 102529

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.4	73.4
254	0.1	0.1	0.1#

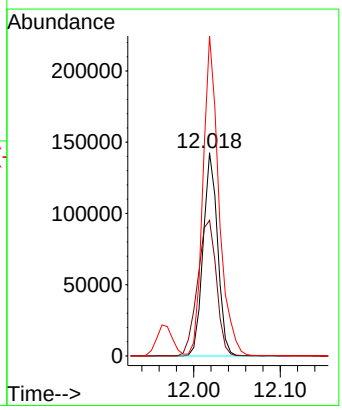


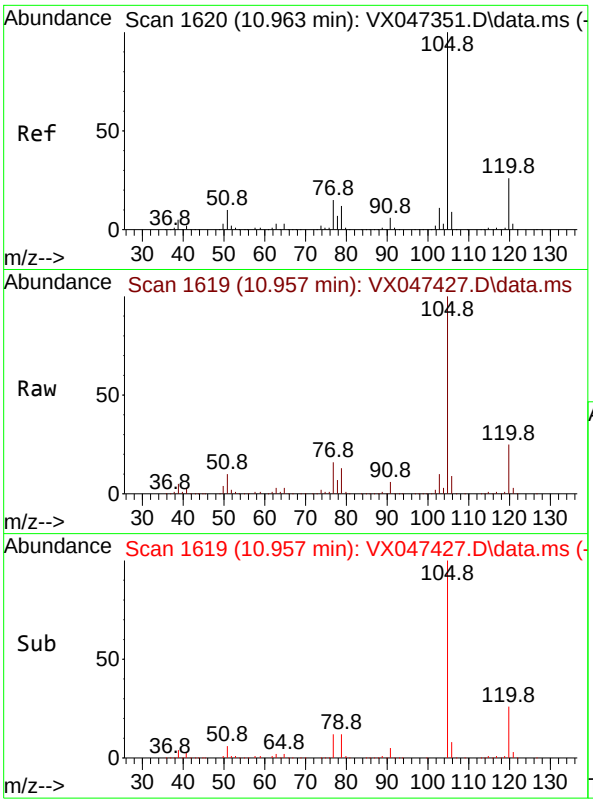


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:152 Resp: 165668

Ion	Ratio	Lower	Upper
152	100		
115	87.0	44.6	133.8
150	173.1	0.0	349.8



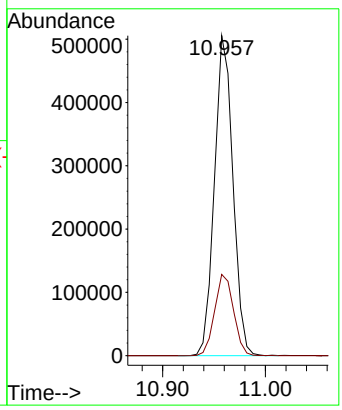


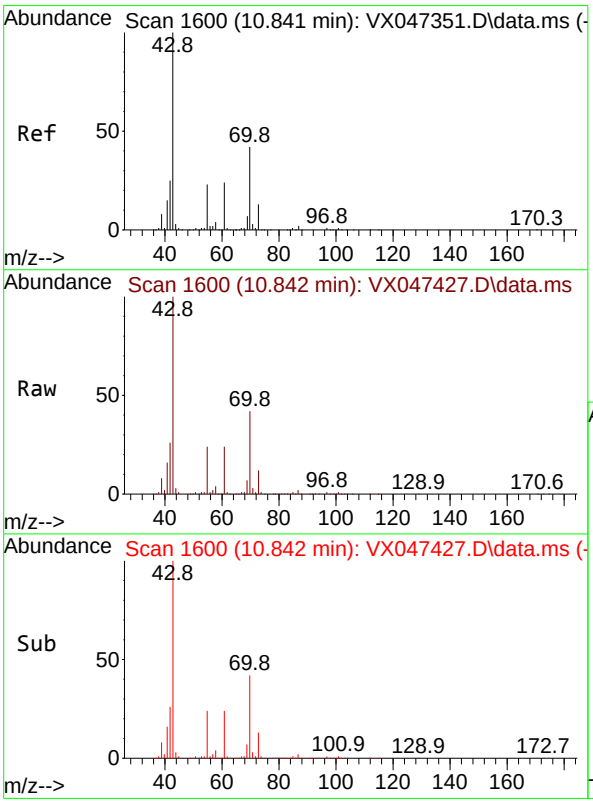
#73
Isopropylbenzene
Concen: 48.683 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 631147

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.9	38.6

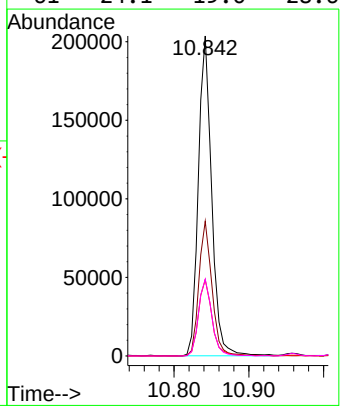


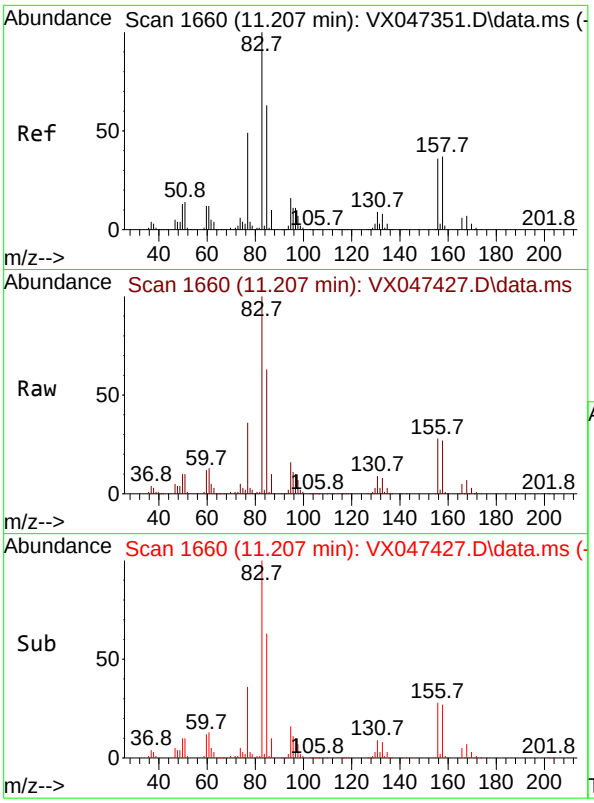


#74
N-amyl acetate
Concen: 51.206 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 43 Resp: 252091

Ion	Ratio	Lower	Upper
43	100		
70	41.6	33.1	49.7
55	24.4	19.0	28.6
61	24.1	19.0	28.6



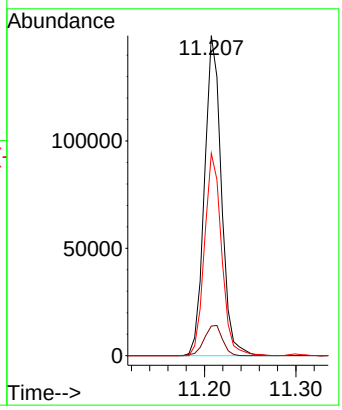


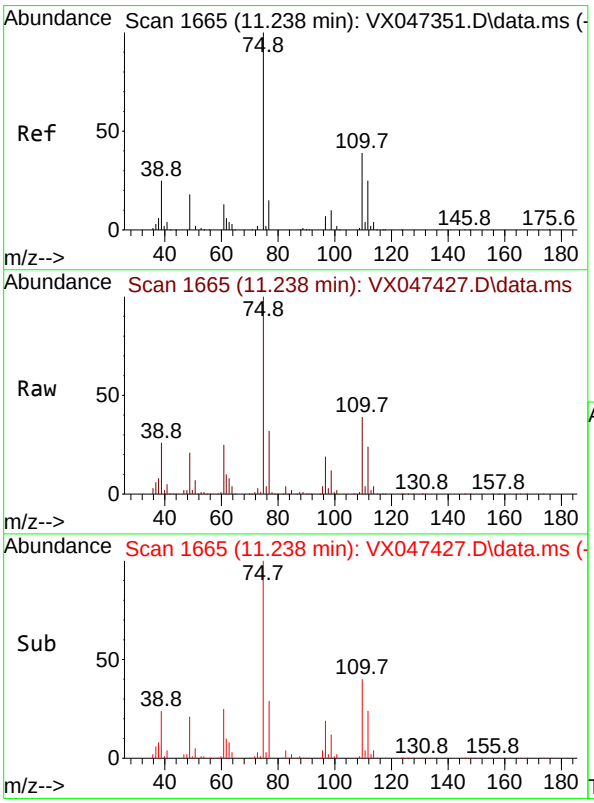
#75
1,1,2,2-Tetrachloroethane
Concen: 49.970 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 190203

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	15.0
85	63.9	31.7	95.1

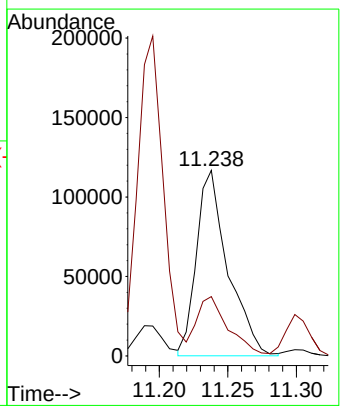


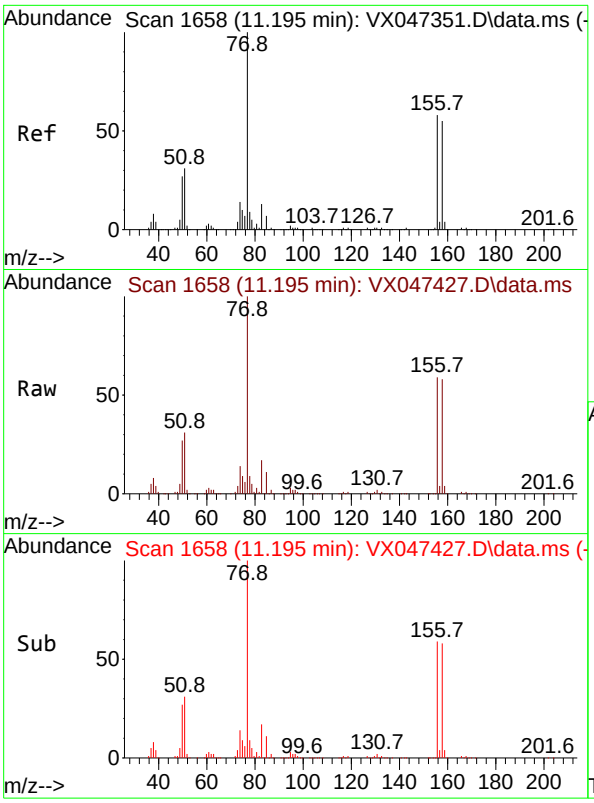


#76
1,2,3-Trichloropropane
Concen: 61.294 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 75 Resp: 186243

Ion	Ratio	Lower	Upper
75	100		
77	32.0	19.4	58.2



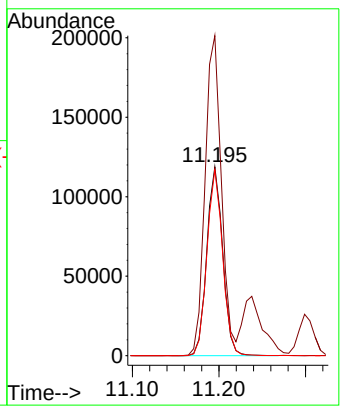


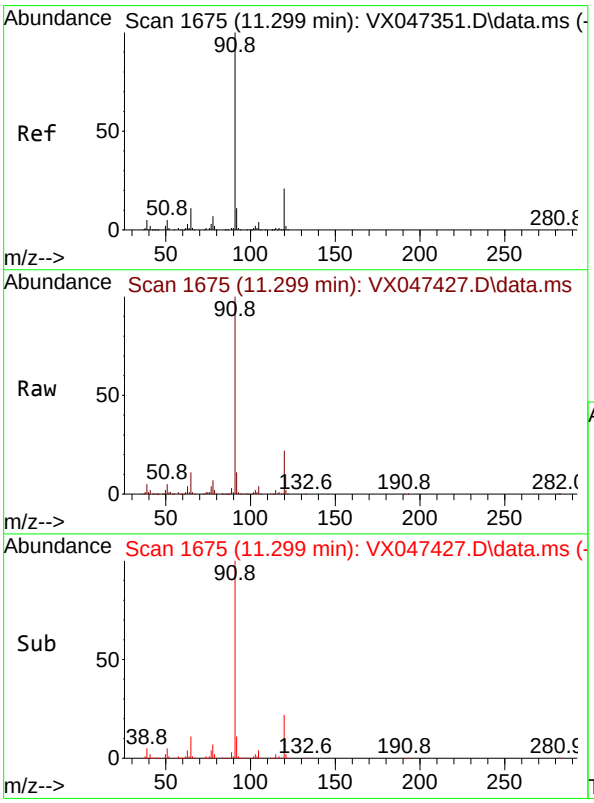
#77
Bromobenzene
Concen: 47.888 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 151602

Ion	Ratio	Lower	Upper
156	100		
77	173.8	86.3	258.9
158	97.3	48.0	144.2

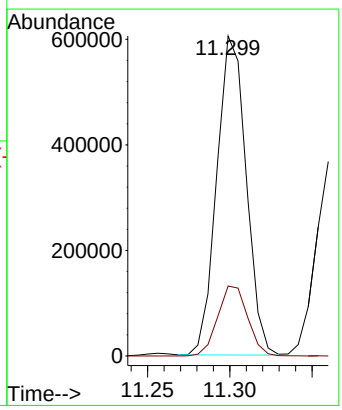


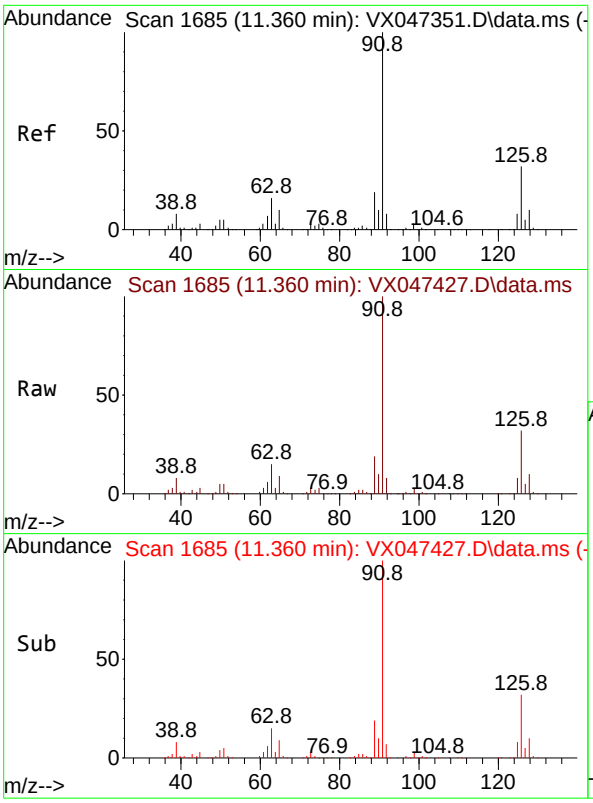


#78
n-propylbenzene
Concen: 48.618 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 91 Resp: 752772

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.0	33.0



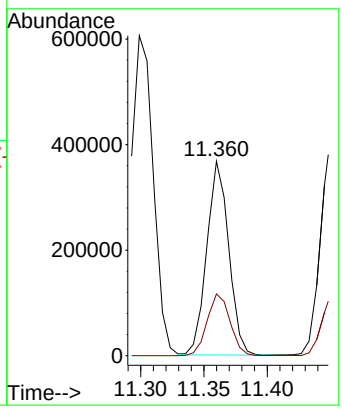


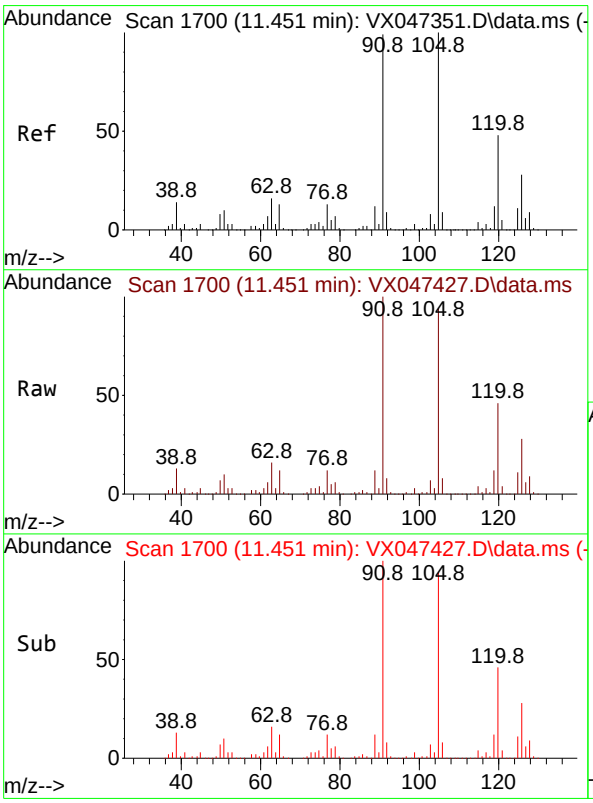
#79
2-Chlorotoluene
Concen: 47.399 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 443648

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.7	50.1

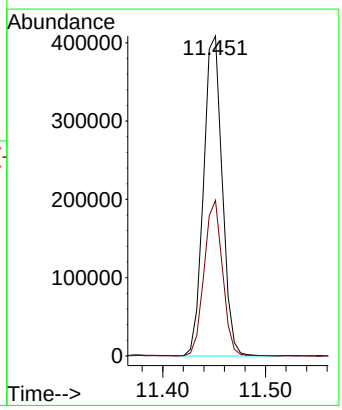


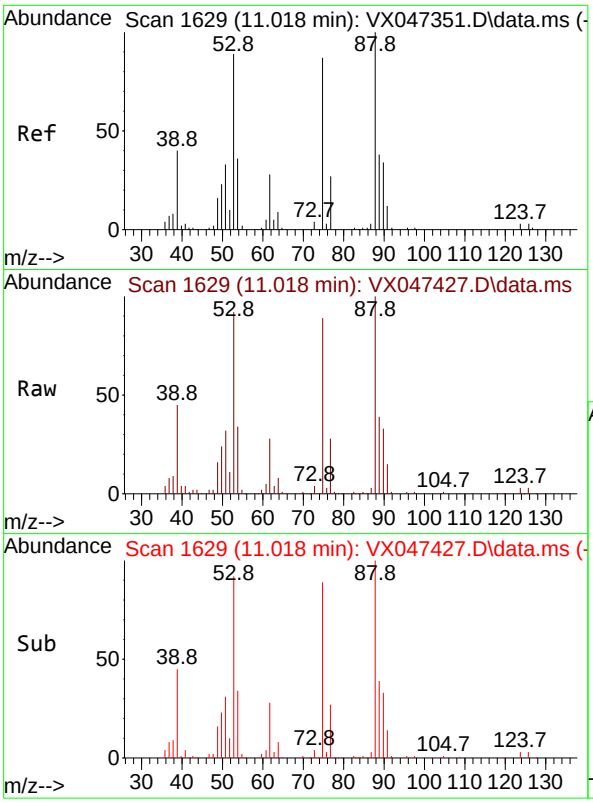


#80
1,3,5-Trimethylbenzene
Concen: 48.420 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:105 Resp: 516490

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.9	71.7



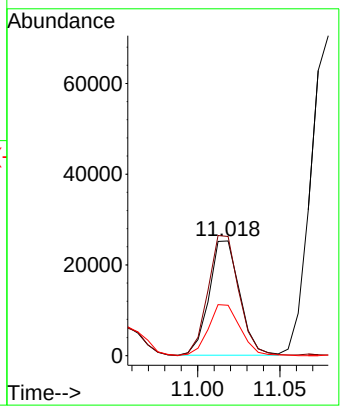


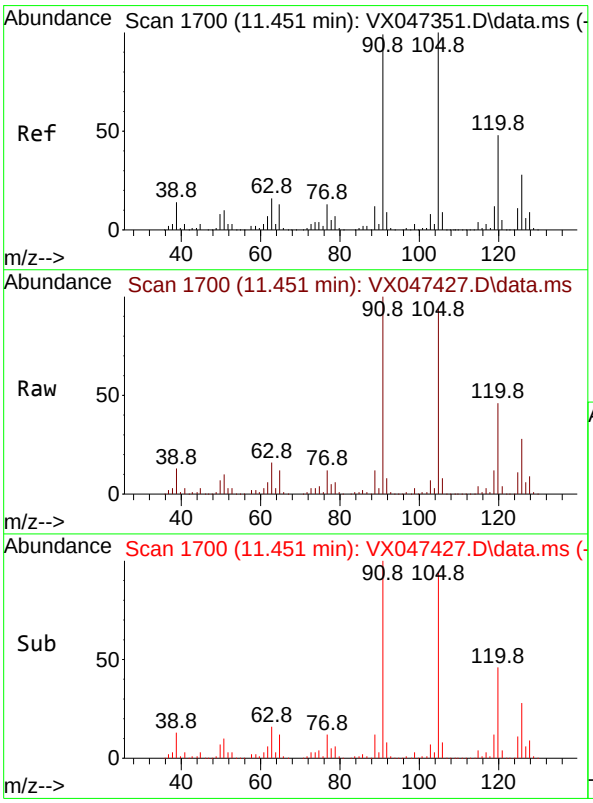
#81
trans-1,4-Dichloro-2-butene
Concen: 47.211 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 32638

Ion	Ratio	Lower	Upper
75	100		
53	106.1	85.2	127.8
89	46.5	36.7	55.1

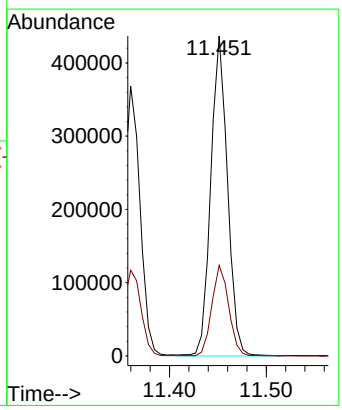


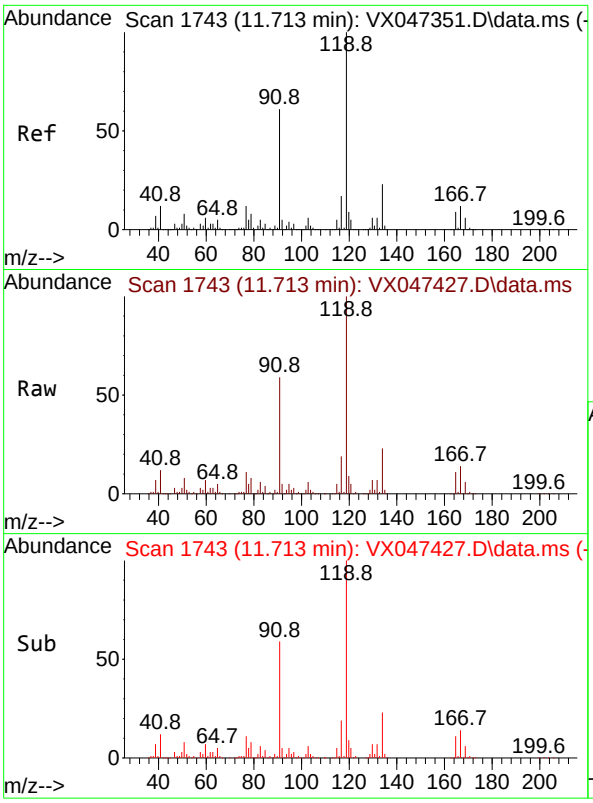


#82
4-Chlorotoluene
Concen: 47.507 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 91 Resp: 524154

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.4	43.0



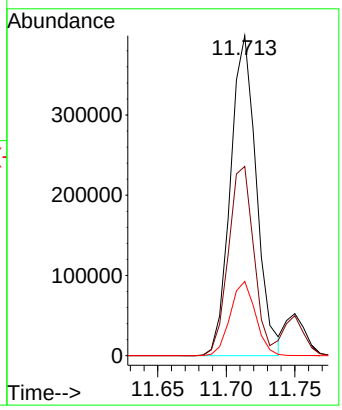


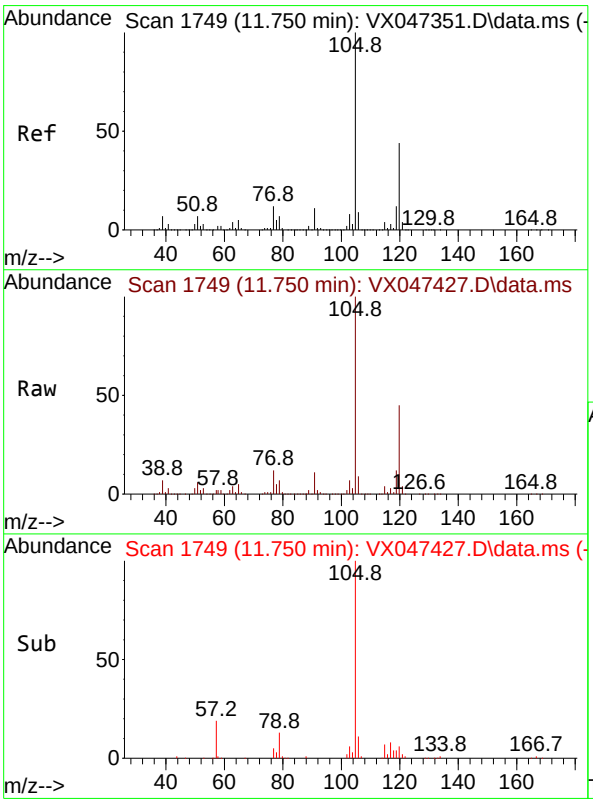
#83
tert-Butylbenzene
Concen: 49.413 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 525854

Ion	Ratio	Lower	Upper
119	100		
91	57.9	29.1	87.4
134	22.6	11.3	33.9

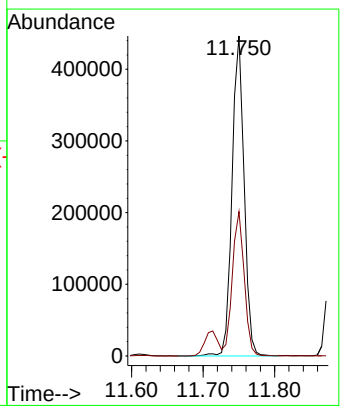


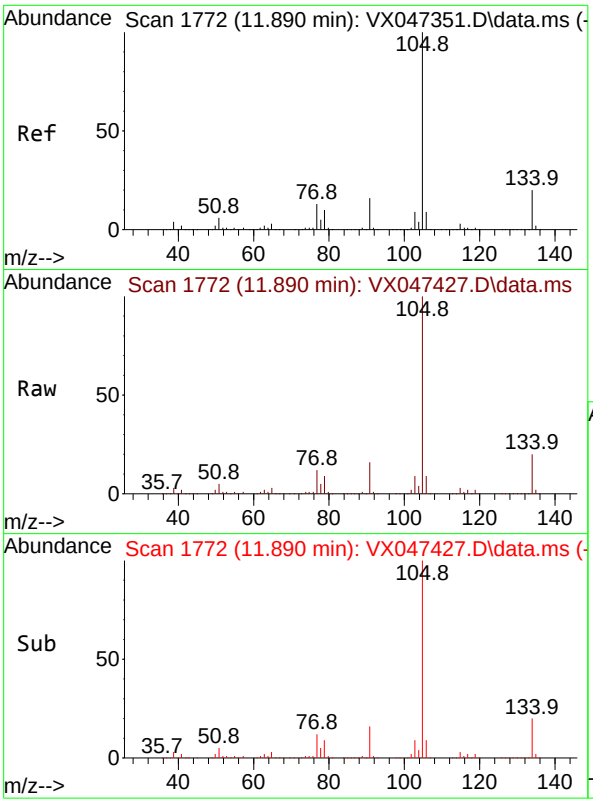


#84
1,2,4-Trimethylbenzene
Concen: 48.900 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:105 Resp: 521624

Ion	Ratio	Lower	Upper
105	100		
120	44.7	21.9	65.7



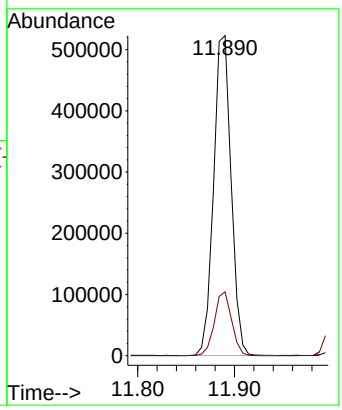


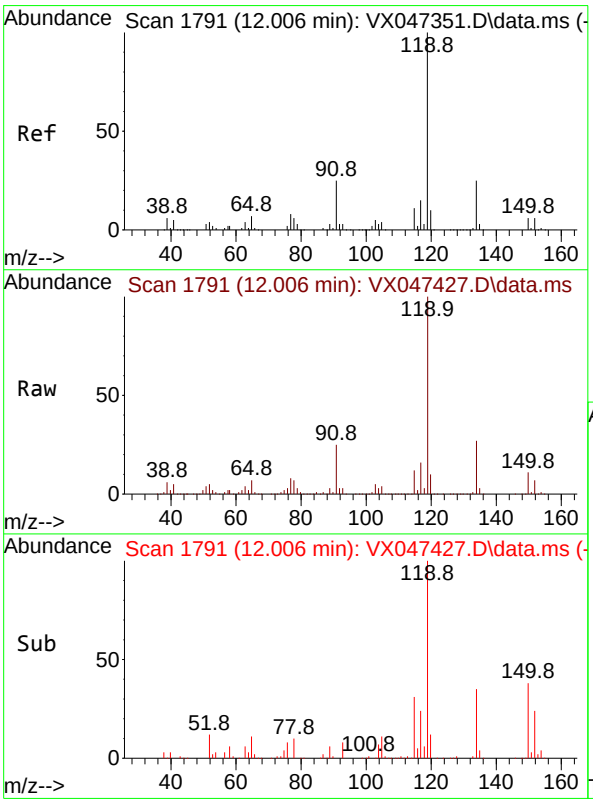
#85
sec-Butylbenzene
Concen: 49.771 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 656494

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

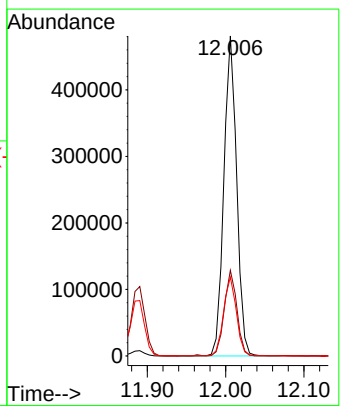


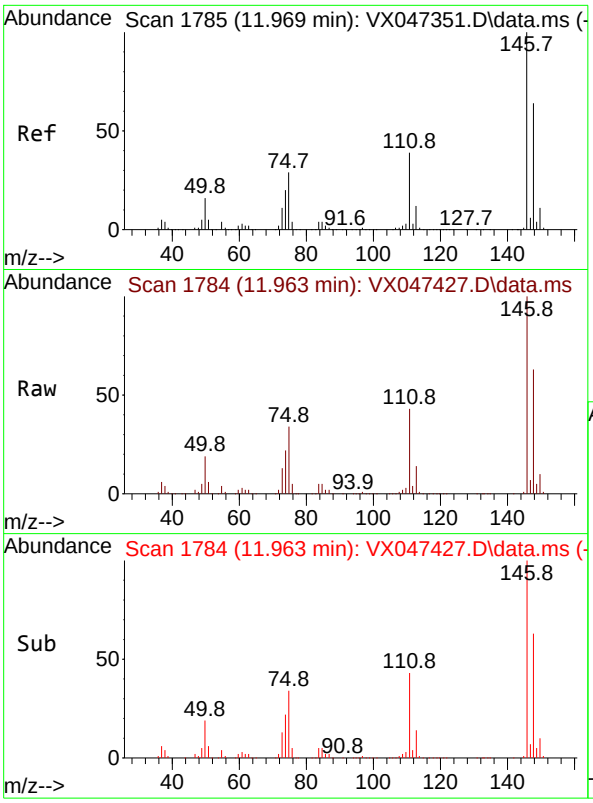


#86
p-Isopropyltoluene
Concen: 49.153 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:119 Resp: 548635

Ion	Ratio	Lower	Upper
119	100		
134	26.3	12.8	38.4
91	24.8	12.4	37.4



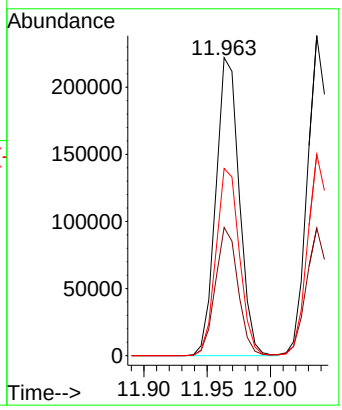


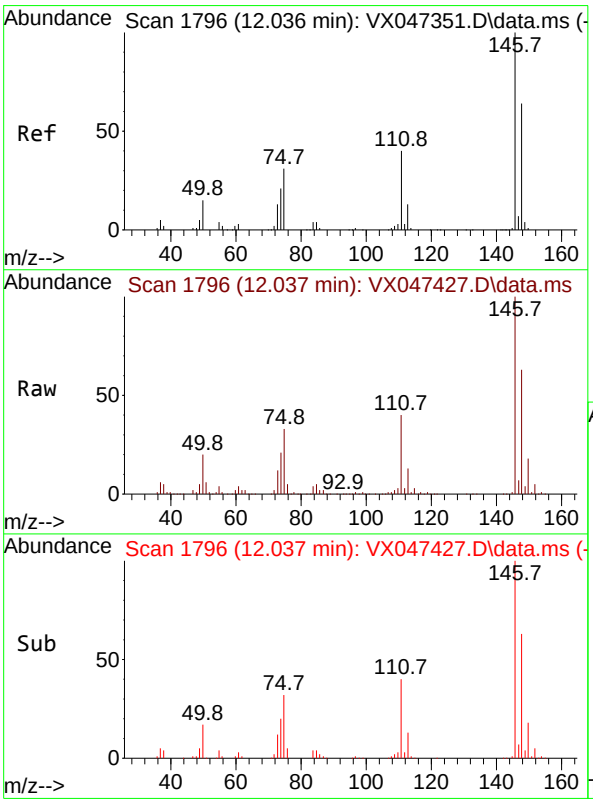
#87
1,3-Dichlorobenzene
Concen: 47.198 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 285444

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.6	61.8
148	63.0	31.9	95.5

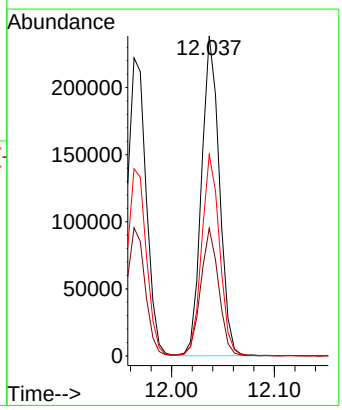


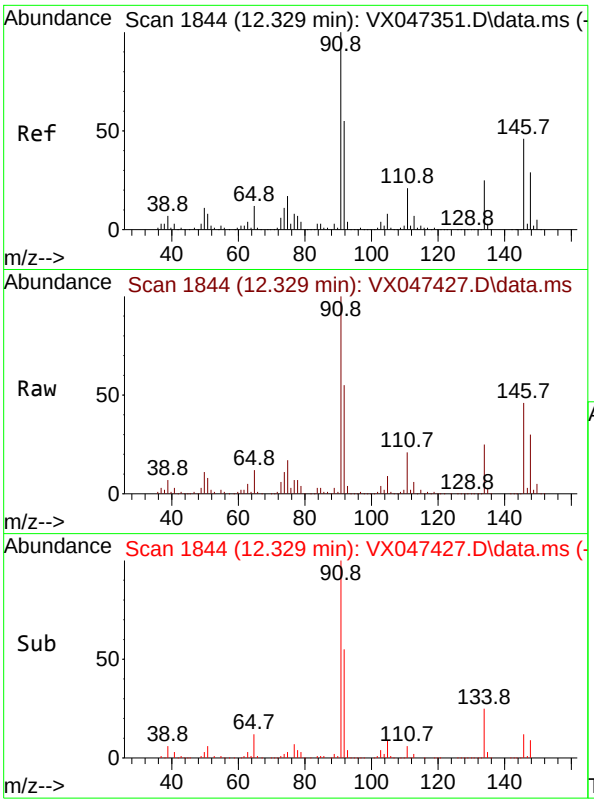


#88
1,4-Dichlorobenzene
Concen: 46.327 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:146 Resp: 288167

Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.4	61.2
148	63.3	31.7	95.1



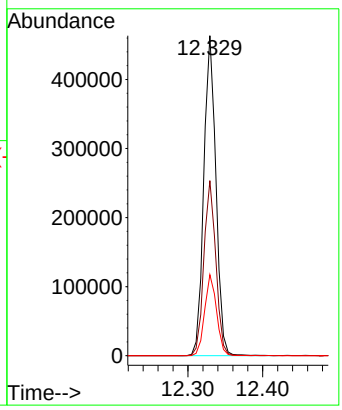


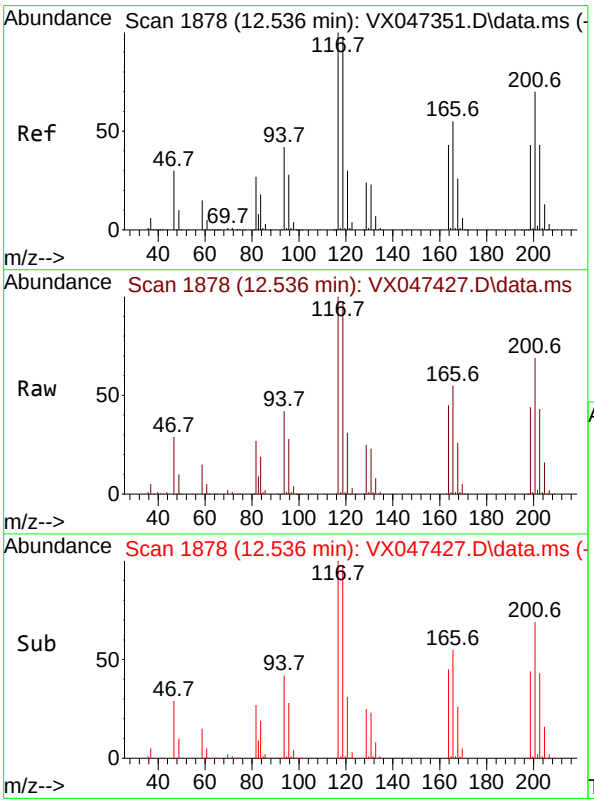
#89
n-Butylbenzene
Concen: 50.180 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 520953

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.2	81.5
134	24.9	12.6	37.8

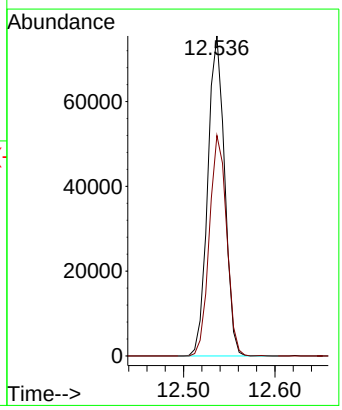


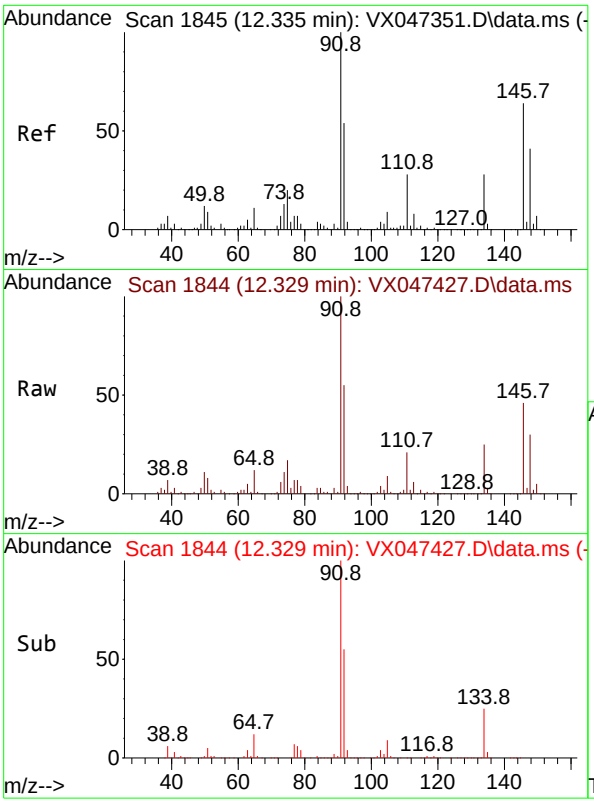


#90
Hexachloroethane
Concen: 49.346 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:117 Resp: 96627

Ion	Ratio	Lower	Upper
117	100		
201	70.5	35.1	105.3



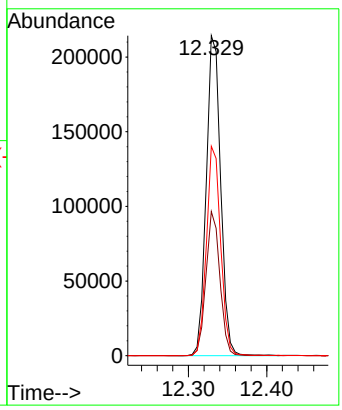


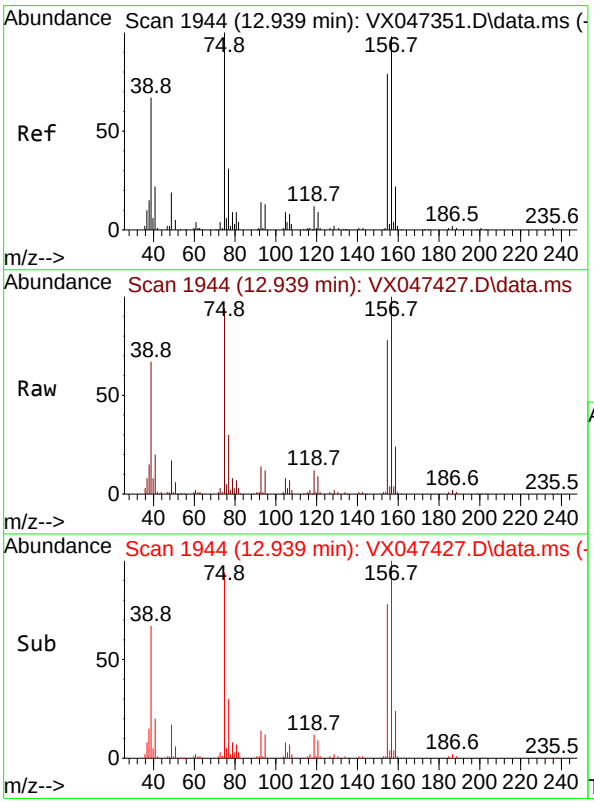
#91
1,2-Dichlorobenzene
Concen: 47.527 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 272826

Ion	Ratio	Lower	Upper
146	100		
111	43.7	22.1	66.1
148	64.7	31.9	95.5

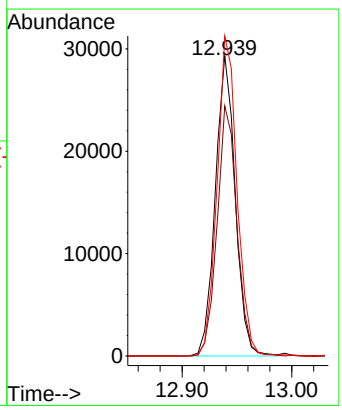


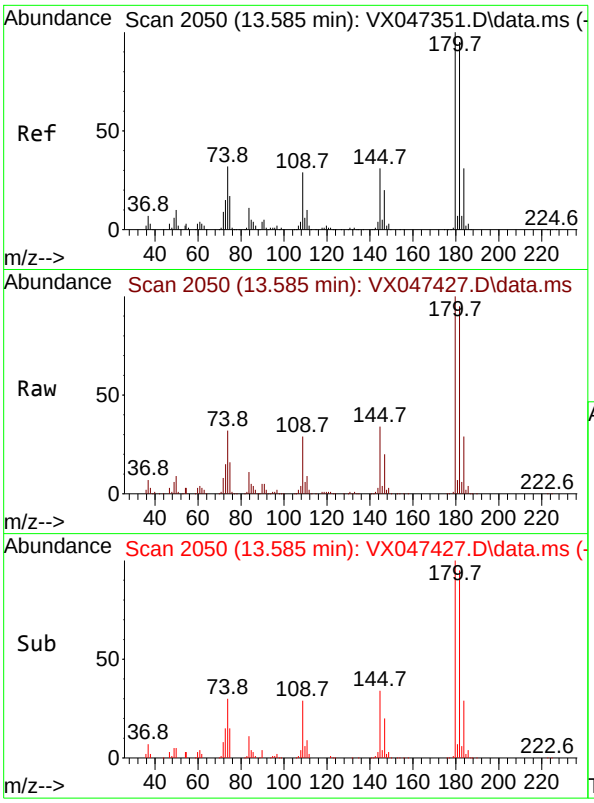


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.361 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion: 75 Resp: 37072

Ion	Ratio	Lower	Upper
75	100		
155	82.9	41.3	123.7
157	107.1	51.5	154.5



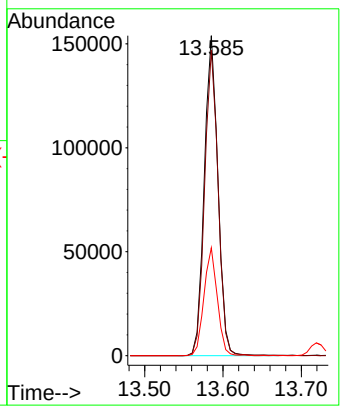


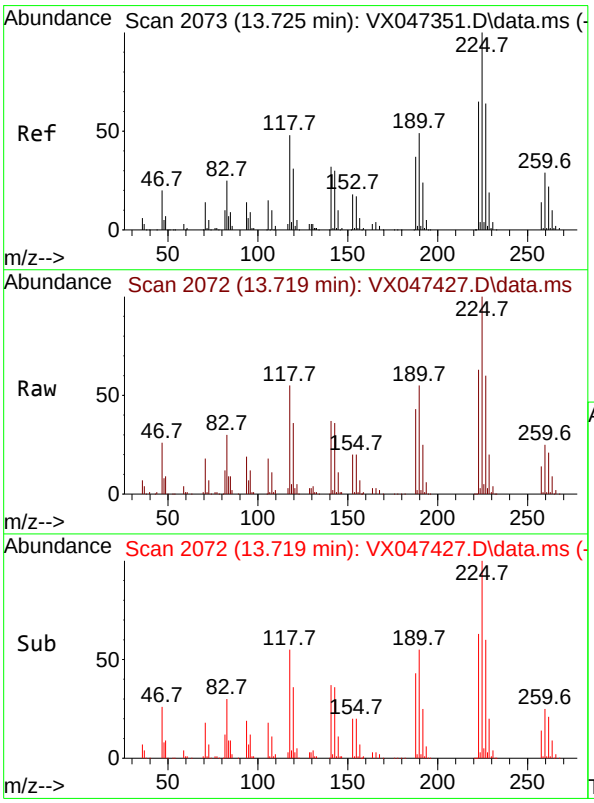
#93
1,2,4-Trichlorobenzene
Concen: 48.275 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 185776

Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.1	144.4
145	32.9	16.2	48.5

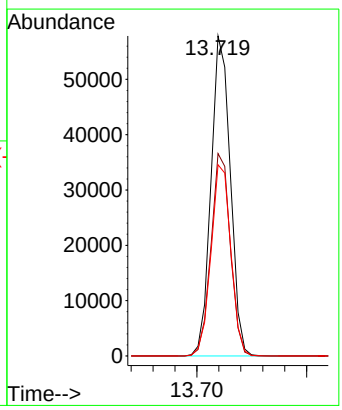


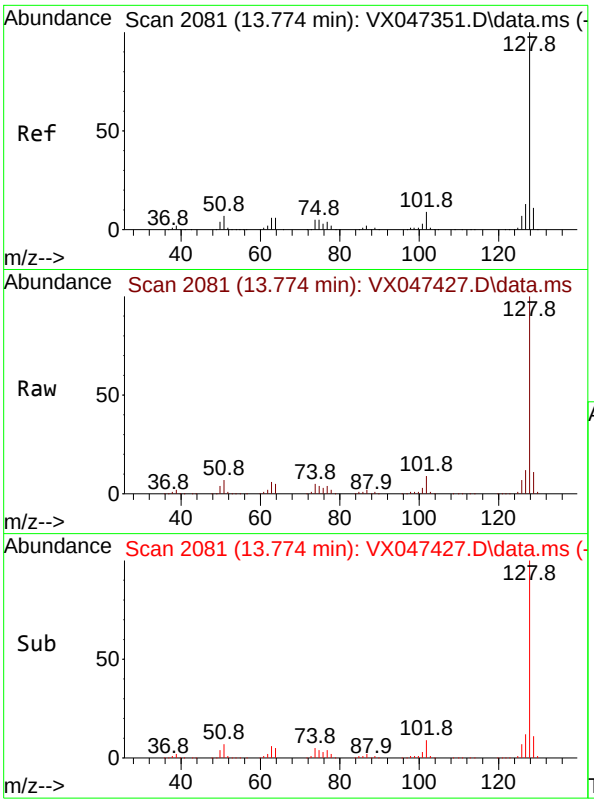


#94
Hexachlorobutadiene
Concen: 51.627 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:225 Resp: 70719

Ion	Ratio	Lower	Upper
225	100		
223	63.5	32.2	96.6
227	61.4	31.6	95.0



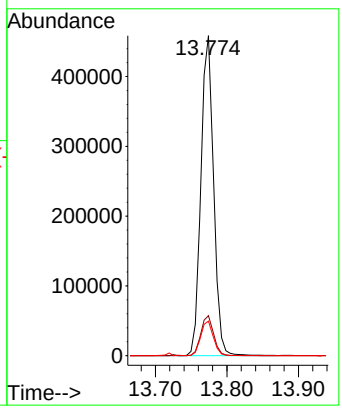


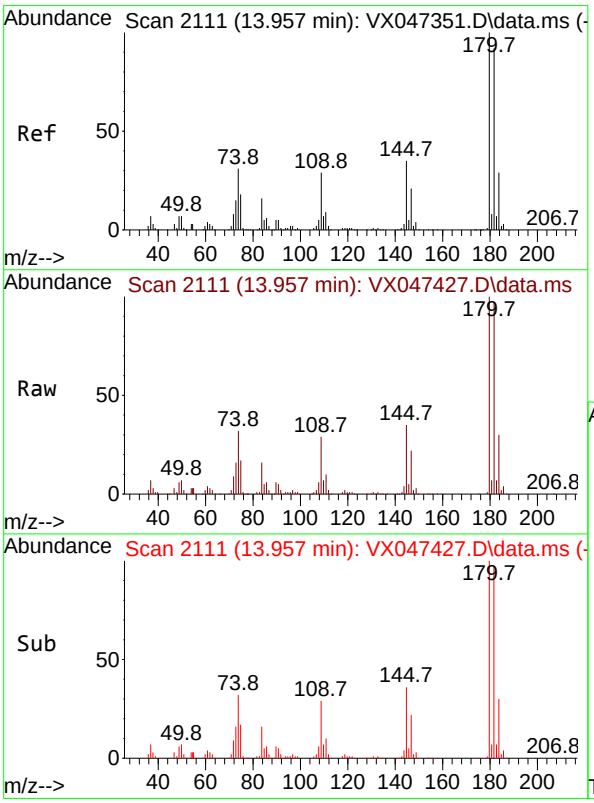
#95
Naphthalene
Concen: 51.423 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 565526

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.8	8.7	13.1

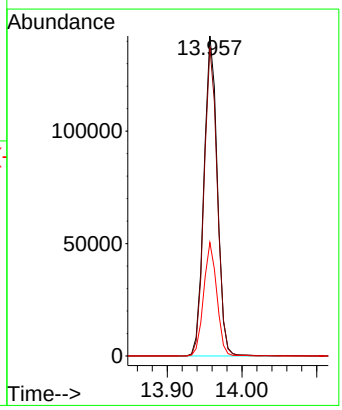




#96
1,2,3-Trichlorobenzene
Concen: 48.632 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047427.D
Acq: 20 Aug 2025 09:25

Tgt Ion:180 Resp: 176412

Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.0	144.2
145	34.9	17.4	52.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047430.D
Acq On : 20 Aug 2025 10:35
Operator : JC/MD
Sample : VX0820WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Quant Time: Aug 21 01:26:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	244648	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	407608	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	368354	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	188940	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	167819	49.014	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.020%			
35) Dibromofluoromethane	5.391	113	131872	49.849	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.700%			
50) Toluene-d8	8.647	98	465580	49.239	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.480%			
62) 4-Bromofluorobenzene	11.079	95	175075	50.176	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	53608	17.189	ug/l	99
3) Chloromethane	1.313	50	46690	16.642	ug/l	98
4) Vinyl Chloride	1.392	62	56657	16.089	ug/l	98
5) Bromomethane	1.630	94	23724	16.679	ug/l	97
6) Chloroethane	1.703	64	34003	15.782	ug/l	97
7) Trichlorofluoromethane	1.904	101	88810	17.050	ug/l	92
8) Diethyl Ether	2.148	74	30454	16.605	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.349	101	53855	17.824	ug/l	99
10) Methyl Iodide	2.471	142	60929	11.767	ug/l	96
11) Tert butyl alcohol	2.959	59	28713	96.397	ug/l	99
12) 1,1-Dichloroethene	2.337	96	51780	16.810	ug/l	100
13) Acrolein	2.246	56	55598	88.423	ug/l	97
14) Allyl chloride	2.678	41	88985	16.632	ug/l	100
15) Acrylonitrile	3.081	53	129142	89.724	ug/l	100
16) Acetone	2.386	43	115342	89.622	ug/l	96
17) Carbon Disulfide	2.526	76	143721	15.462	ug/l	98
18) Methyl Acetate	2.715	43	62524	18.747	ug/l	98
19) Methyl tert-butyl Ether	3.124	73	159152	16.984	ug/l	98
20) Methylene Chloride	2.800	84	58590	17.192	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	54587	16.697	ug/l	98
22) Diisopropyl ether	3.770	45	186733	17.657	ug/l	91
23) Vinyl Acetate	3.733	43	739375	85.298	ug/l	100
24) 1,1-Dichloroethane	3.623	63	102911	17.216	ug/l	99
25) 2-Butanone	4.568	43	156985	93.136	ug/l	100
26) 2,2-Dichloropropane	4.483	77	77655	17.212	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	64958	17.059	ug/l	98
28) Bromochloromethane	4.904	49	49457	19.883	ug/l #	14
29) Tetrahydrofuran	5.020	42	100323	92.088	ug/l	98
30) Chloroform	5.105	83	106236	17.414	ug/l	97
31) Cyclohexane	5.483	56	93514	16.971	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	90227	17.183	ug/l	98
36) 1,1-Dichloropropene	5.696	75	72507	17.363	ug/l	98
37) Ethyl Acetate	4.721	43	69374	16.002	ug/l #	96
38) Carbon Tetrachloride	5.690	117	80032	17.538	ug/l	97
39) Methylcyclohexane	7.385	83	89125	17.110	ug/l	94
40) Benzene	6.050	78	220365	17.630	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047430.D
Acq On : 20 Aug 2025 10:35
Operator : JC/MD
Sample : VX0820WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Quant Time: Aug 21 01:26:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	32344	17.692	ug/l		93
42) 1,2-Dichloroethane	6.099	62	77919	17.599	ug/l		99
43) Isopropyl Acetate	6.349	43	110163	17.688	ug/l		99
44) Trichloroethene	7.135	130	54954	17.170	ug/l		99
45) 1,2-Dichloropropane	7.434	63	54273	17.332	ug/l		100
46) Dibromomethane	7.586	93	40698	17.902	ug/l		98
47) Bromodichloromethane	7.824	83	82328	17.469	ug/l		100
48) Methyl methacrylate	7.696	41	56854	17.587	ug/l		97
49) 1,4-Dioxane	7.690	88	11406	362.941	ug/l		93
51) 4-Methyl-2-Pentanone	8.574	43	335125	93.506	ug/l		98
52) Toluene	8.720	92	138882	17.981	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	72403	17.602	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	81220	17.445	ug/l		97
55) 1,1,2-Trichloroethane	9.153	97	53137	18.120	ug/l		96
56) Ethyl methacrylate	9.116	69	75185	17.389	ug/l		99
57) 1,3-Dichloropropane	9.305	76	89328	17.876	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.245	63	187096	95.949	ug/l		98
59) 2-Hexanone	9.433	43	226987	91.559	ug/l		99
60) Dibromochloromethane	9.519	129	61655	17.691	ug/l		98
61) 1,2-Dibromoethane	9.610	107	52535	17.373	ug/l		100
64) Tetrachloroethene	9.275	164	45932	17.239	ug/l		97
65) Chlorobenzene	10.080	112	151755	17.336	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.159	131	52523	17.750	ug/l		98
67) Ethyl Benzene	10.195	91	264573	17.561	ug/l		98
68) m/p-Xylenes	10.299	106	200944	35.769	ug/l		99
69) o-Xylene	10.640	106	97003	17.943	ug/l		96
70) Styrene	10.653	104	164340	17.991	ug/l		100
71) Bromoform	10.799	173	39163	17.617	ug/l	#	99
73) Isopropylbenzene	10.964	105	256220	17.329	ug/l		99
74) N-amyl acetate	10.842	43	93750	16.697	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	76376	17.594	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	72702	20.980	ug/l		93
77) Bromobenzene	11.195	156	62108	17.202	ug/l		98
78) n-propylbenzene	11.305	91	305865	17.321	ug/l		100
79) 2-Chlorotoluene	11.360	91	181694	17.021	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	210710	17.321	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	10400	18.858	ug/l		96
82) 4-Chlorotoluene	11.451	91	216515	17.207	ug/l		99
83) tert-Butylbenzene	11.713	119	211697	17.442	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	213463	17.547	ug/l		99
85) sec-Butylbenzene	11.890	105	268675	17.860	ug/l		100
86) p-Isopropyltoluene	12.006	119	225219	17.692	ug/l		99
87) 1,3-Dichlorobenzene	11.970	146	116436	16.881	ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	120251	16.951	ug/l		99
89) n-Butylbenzene	12.329	91	208015	17.569	ug/l		99
90) Hexachloroethane	12.536	117	37901	16.972	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	112636	17.205	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	14705	17.516	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	71685	16.333	ug/l		99
94) Hexachlorobutadiene	13.719	225	27248	17.442	ug/l		98
95) Naphthalene	13.774	128	212701	16.959	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	70071	16.938	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047430.D
Acq On : 20 Aug 2025 10:35
Operator : JC/MD
Sample : VX0820WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Quant Time: Aug 21 01:26:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

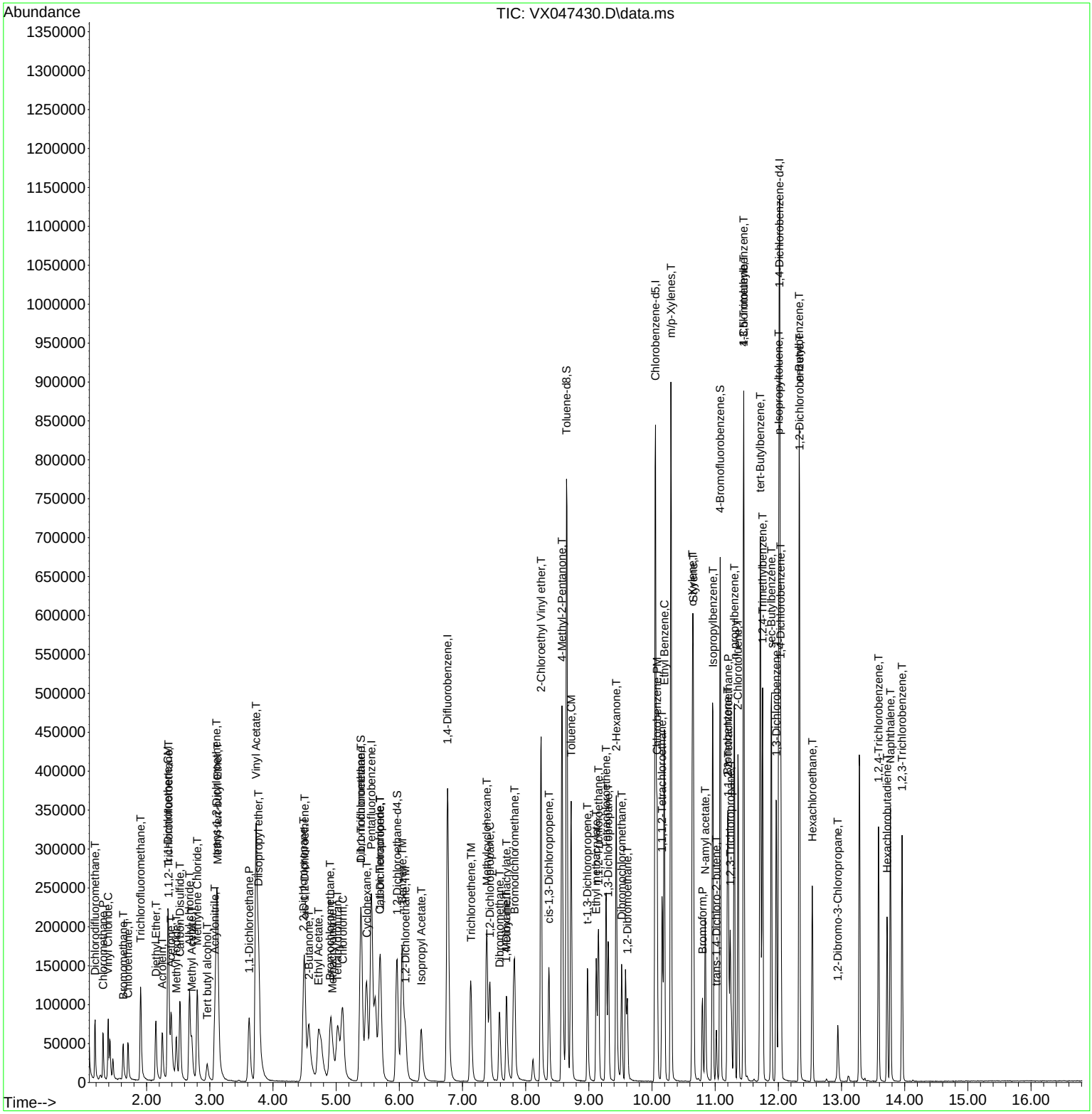
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

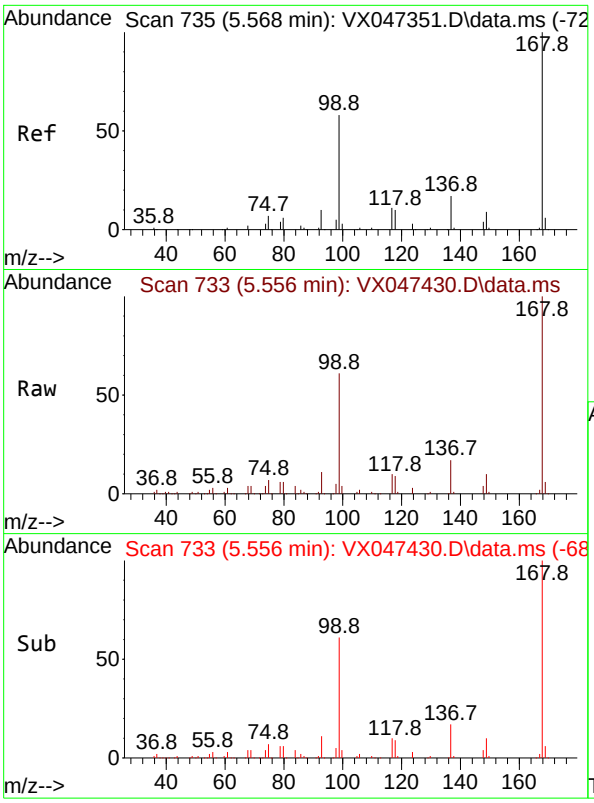
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047430.D
Acq On : 20 Aug 2025 10:35
Operator : JC/MD
Sample : VX0820WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Quant Time: Aug 21 01:26:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



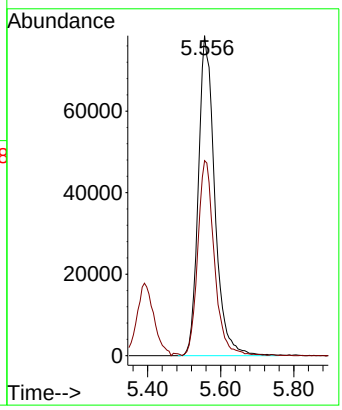


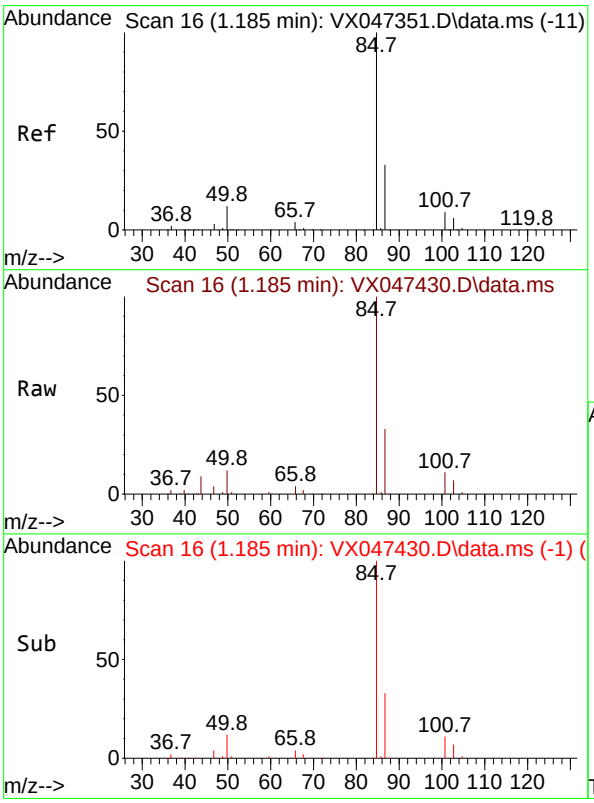
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:168 Resp: 244648

Ion	Ratio	Lower	Upper
168	100		
99	60.9	47.9	71.9

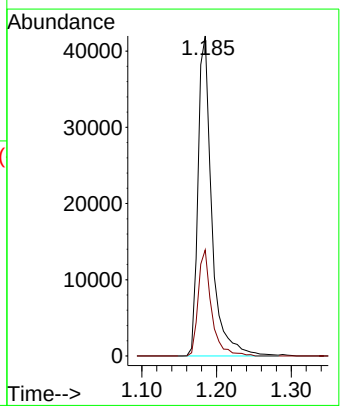


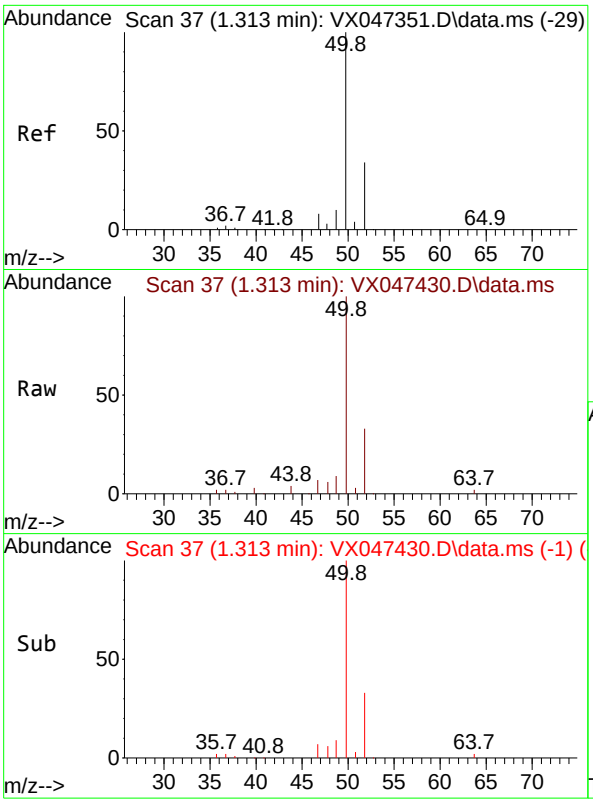


#2
Dichlorodifluoromethane
Concen: 17.189 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 85 Resp: 53608

Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.4	49.1



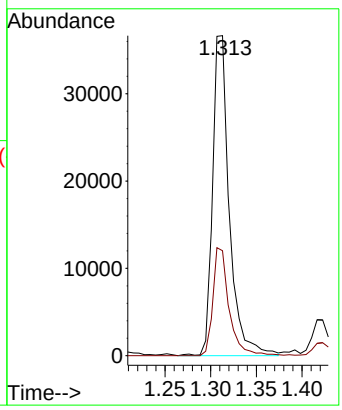


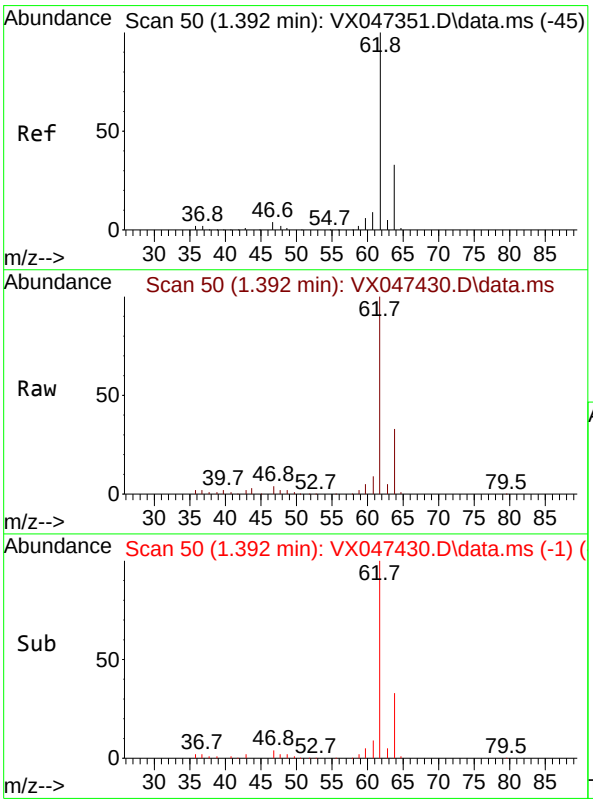
#3
Chloromethane
Concen: 16.642 ug/l
RT: 1.313 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 50 Resp: 46690

Ion	Ratio	Lower	Upper
50	100		
52	32.8	27.0	40.4

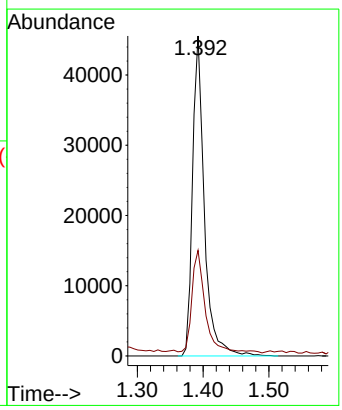


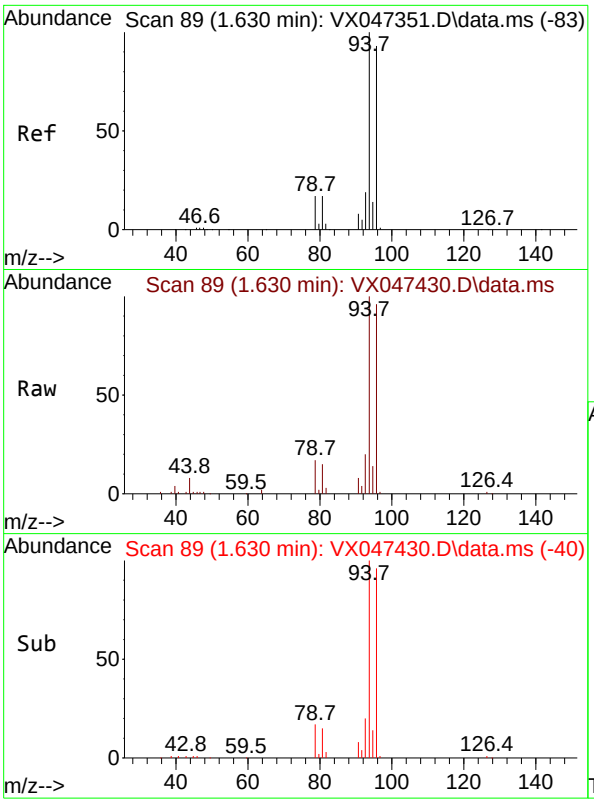


#4
Vinyl Chloride
Concen: 16.089 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 62 Resp: 56657

Ion	Ratio	Lower	Upper
62	100		
64	31.7	26.5	39.7



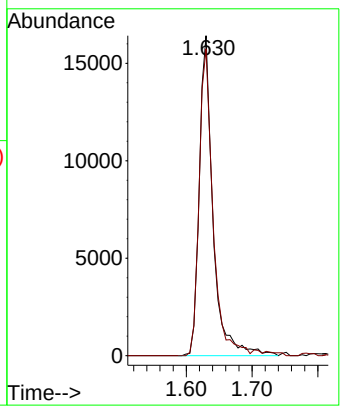


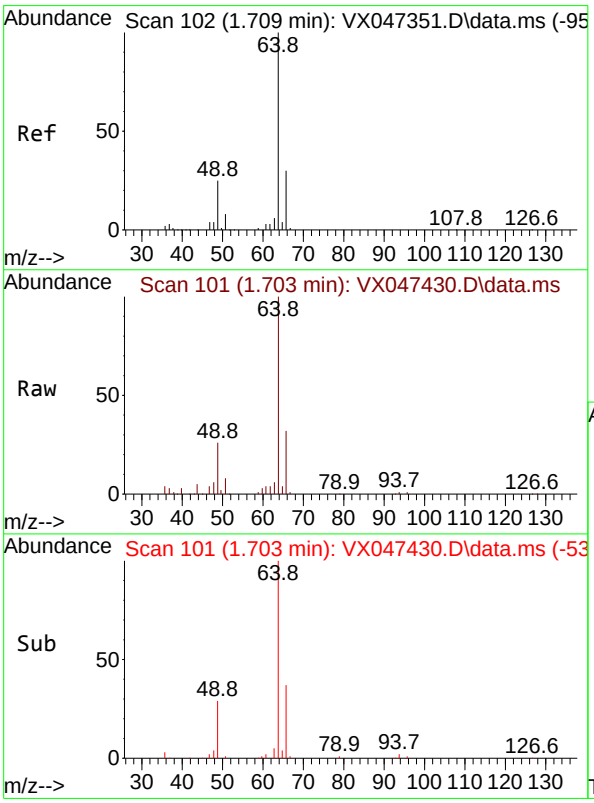
#5
Bromomethane
Concen: 16.679 ug/l
RT: 1.630 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 94 Resp: 23724

Ion	Ratio	Lower	Upper
94	100		
96	95.9	74.7	112.1

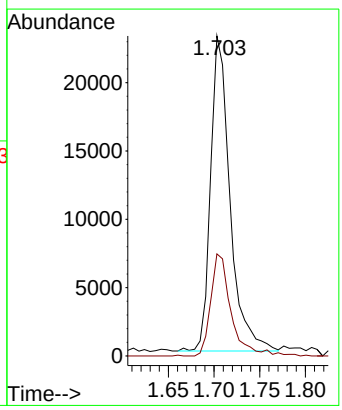


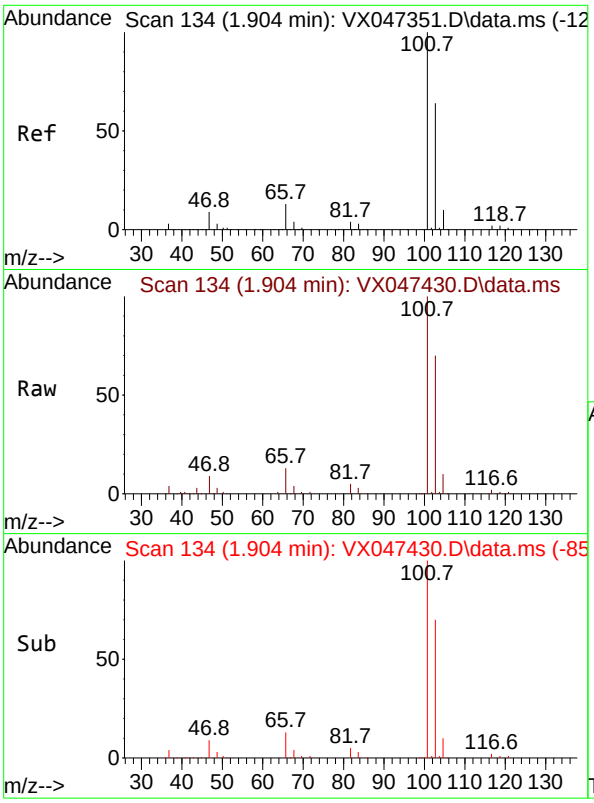


#6
Chloroethane
Concen: 15.782 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 64 Resp: 34003

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.4	36.6



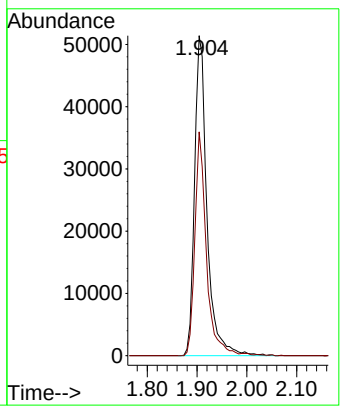


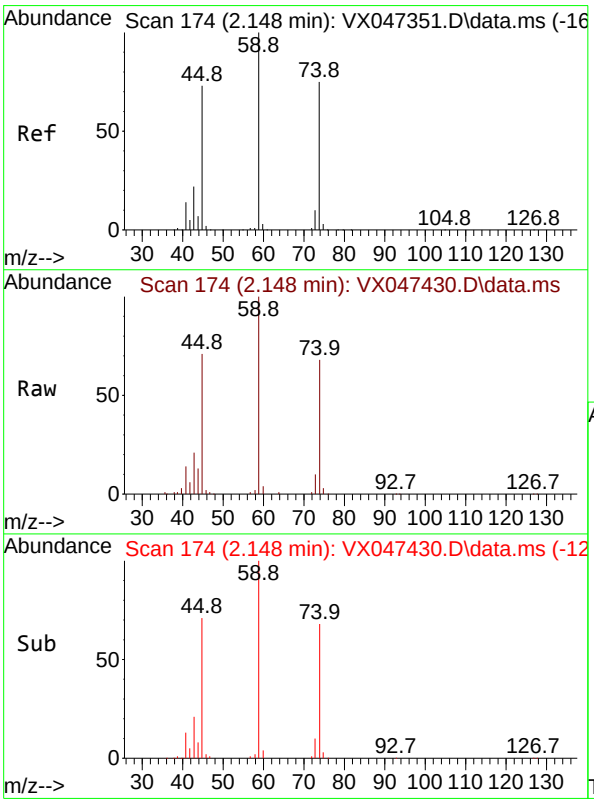
#7
Trichlorofluoromethane
Concen: 17.050 ug/l
RT: 1.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:101 Resp: 88810

Ion	Ratio	Lower	Upper
101	100		
103	69.9	50.9	76.3

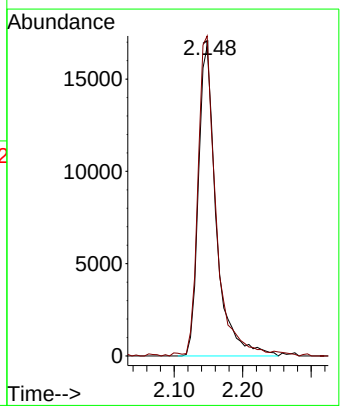


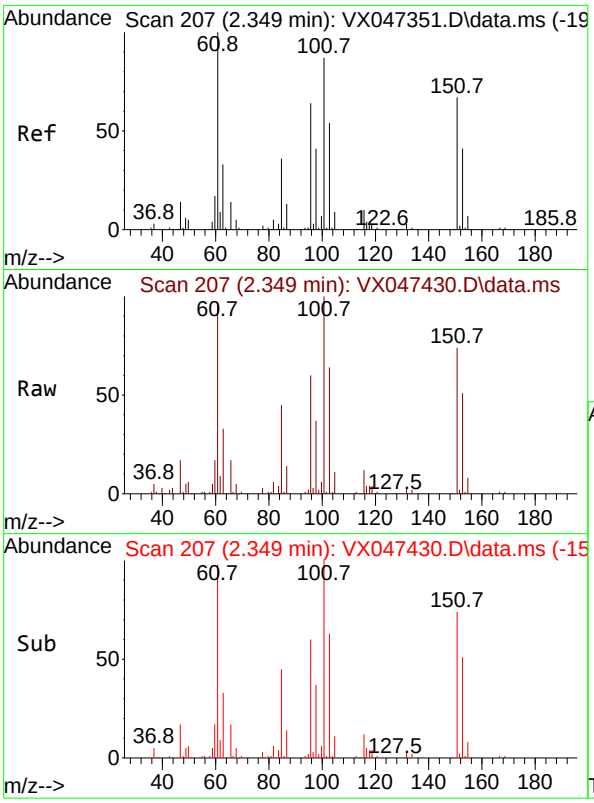


#8
Diethyl Ether
Concen: 16.605 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 74 Resp: 30454

Ion	Ratio	Lower	Upper
74	100		
45	104.6	51.3	154.0



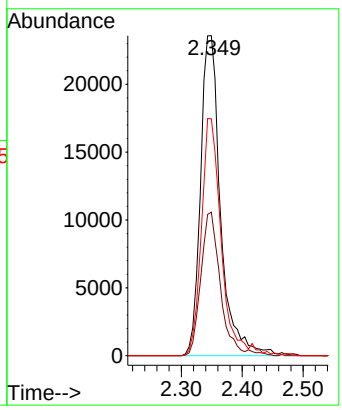


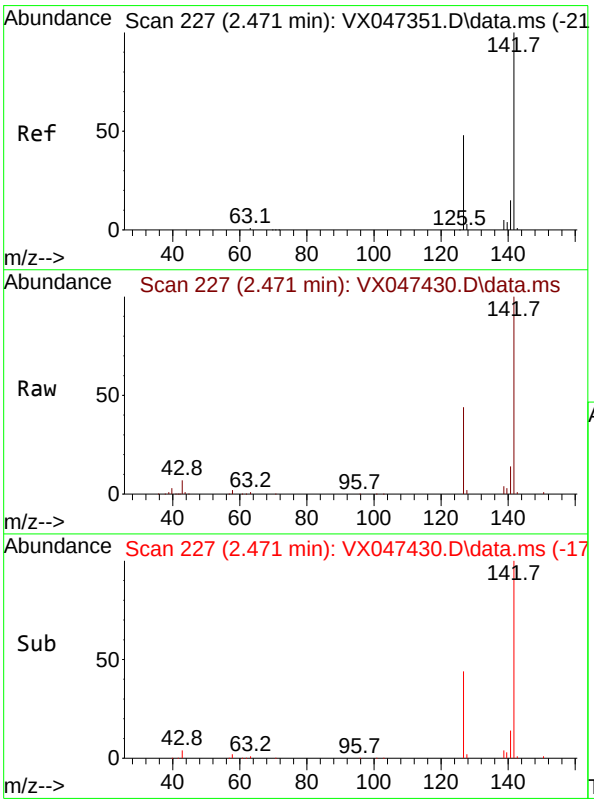
#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.824 ug/l
RT: 2.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:101 Resp: 53855

Ion	Ratio	Lower	Upper
101	100		
85	44.1	34.3	51.5
151	73.9	59.2	88.8

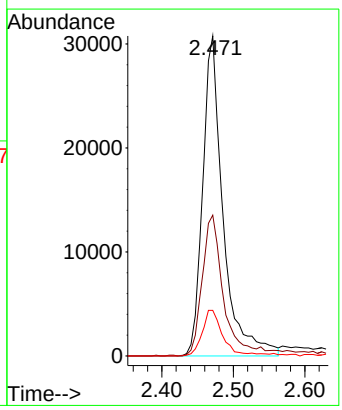


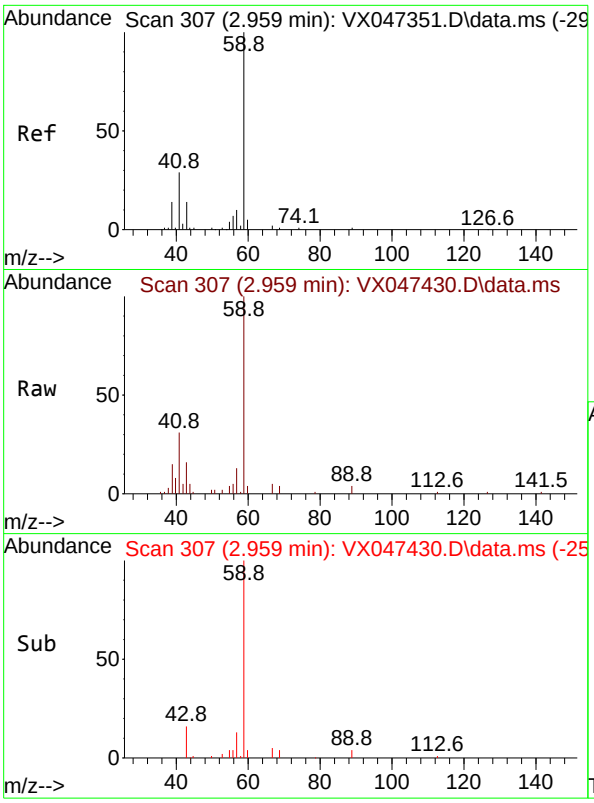


#10
Methyl Iodide
Concen: 11.767 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:142 Resp: 60929

Ion	Ratio	Lower	Upper
142	100		
127	47.9	36.1	54.1
141	15.0	11.1	16.7



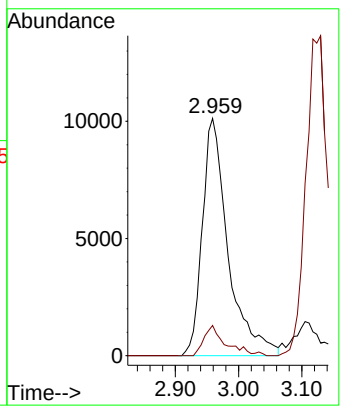


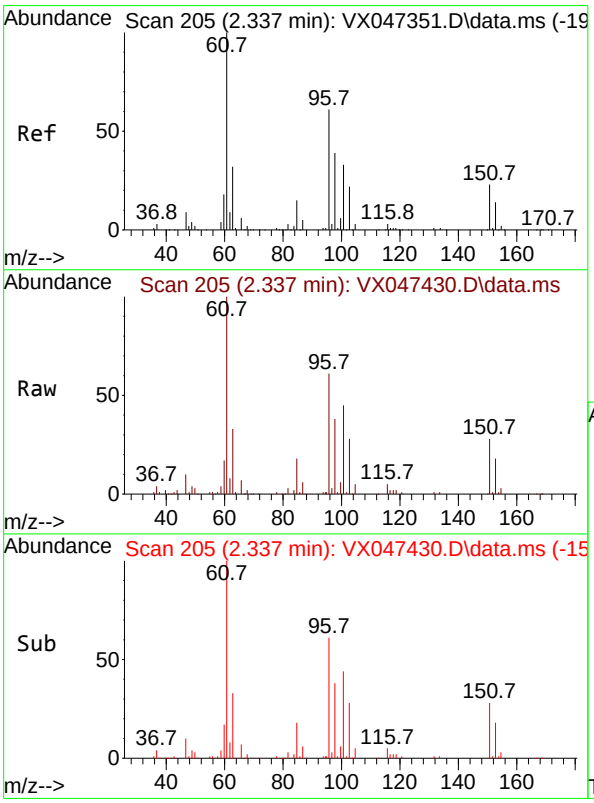
#11
Tert butyl alcohol
Concen: 96.397 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 59 Resp: 28713

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.3	12.5

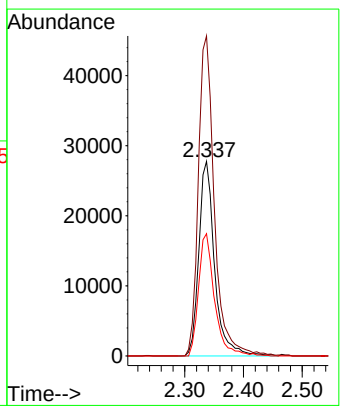


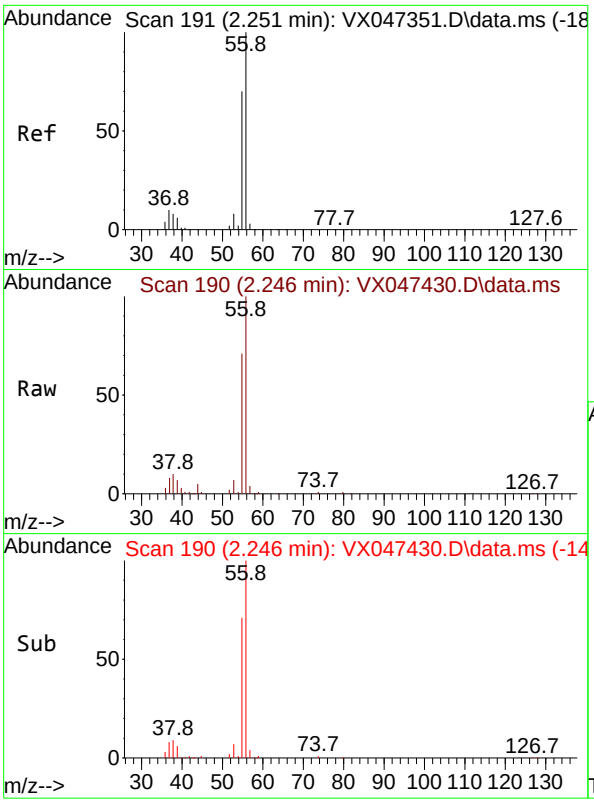


#12
1,1-Dichloroethene
Concen: 16.810 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 96 Resp: 51780

Ion	Ratio	Lower	Upper
96	100		
61	164.5	132.2	198.2
98	63.7	51.2	76.8



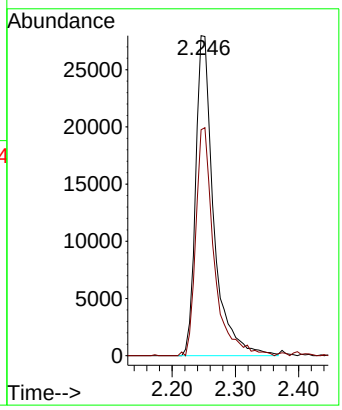


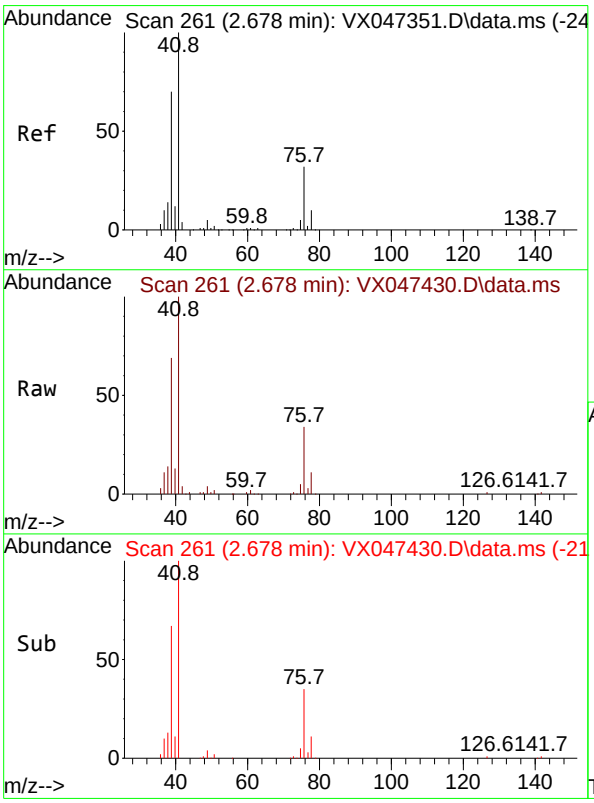
#13
Acrolein
Concen: 88.423 ug/l
RT: 2.246 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 56 Resp: 55598

Ion	Ratio	Lower	Upper
56	100		
55	71.9	55.5	83.3

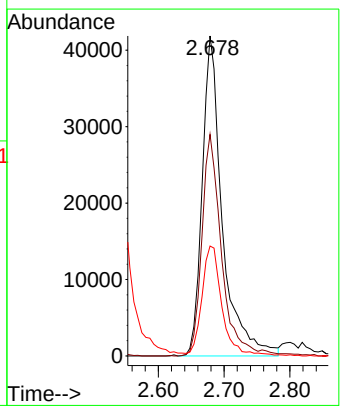


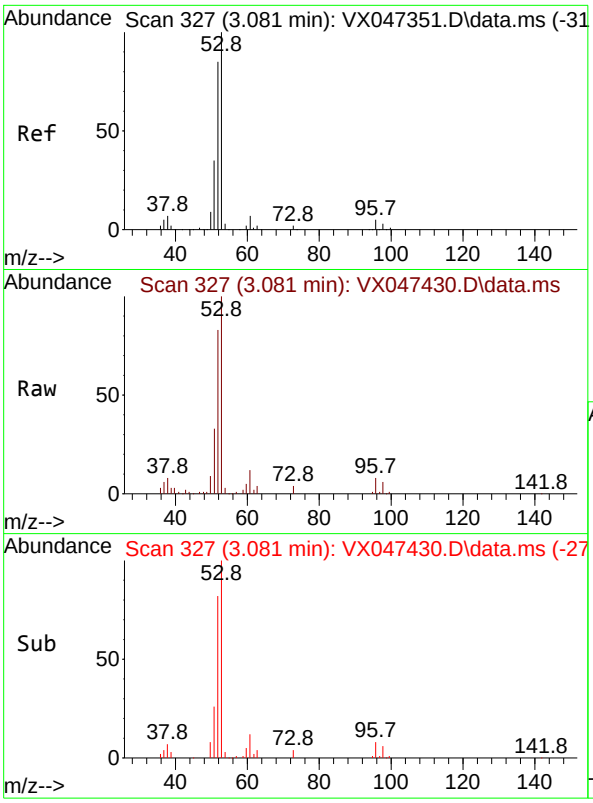


#14
Allyl chloride
Concen: 16.632 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 41 Resp: 88985

Ion	Ratio	Lower	Upper
41	100		
39	68.2	54.6	81.8
76	34.4	27.6	41.4



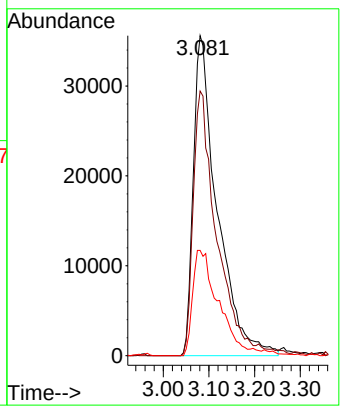


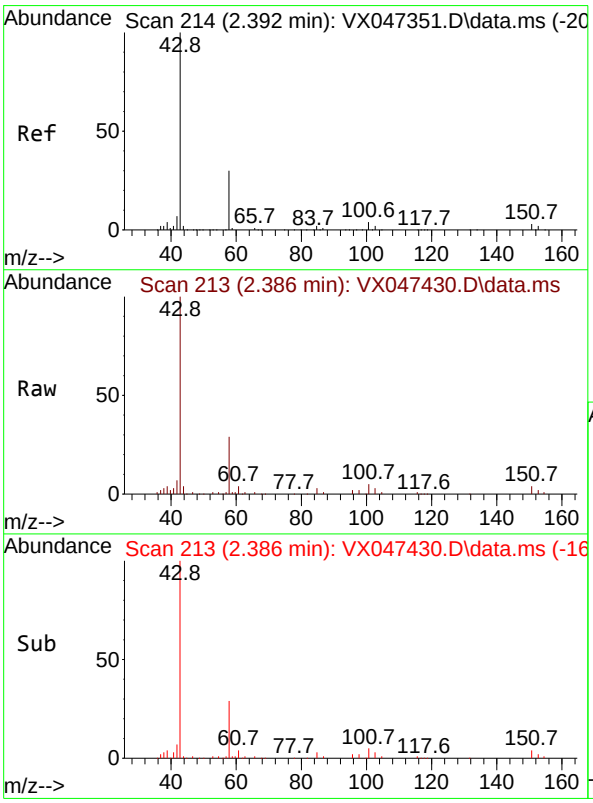
#15
Acrylonitrile
Concen: 89.724 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 53 Resp: 129142

Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.8	98.6
51	35.8	28.2	42.2

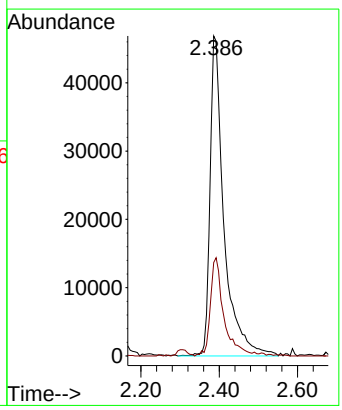


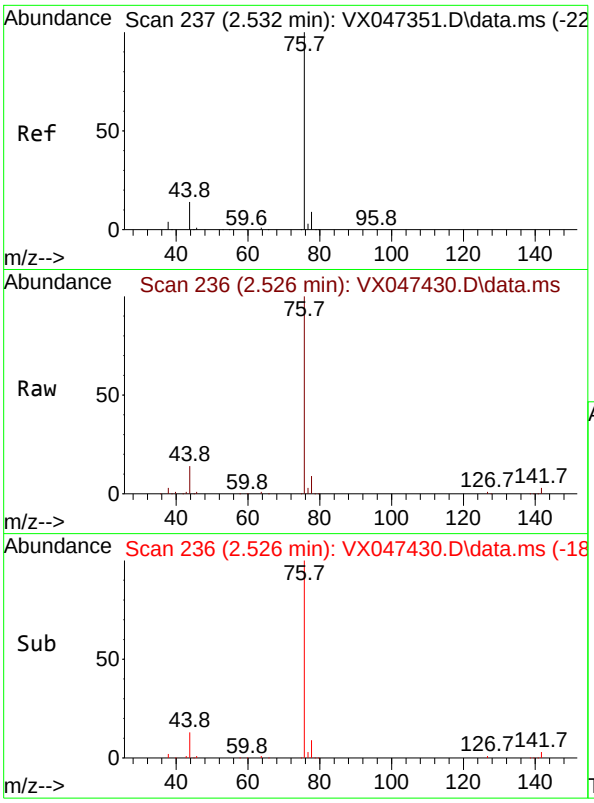


#16
Acetone
Concen: 89.622 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 43 Resp: 115342

Ion	Ratio	Lower	Upper
43	100		
58	28.9	24.8	37.2



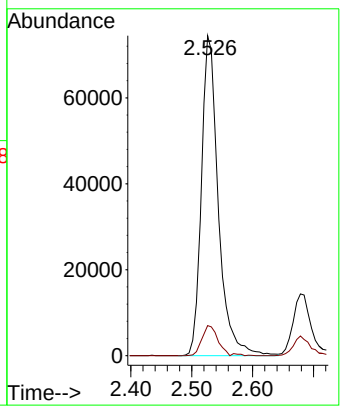


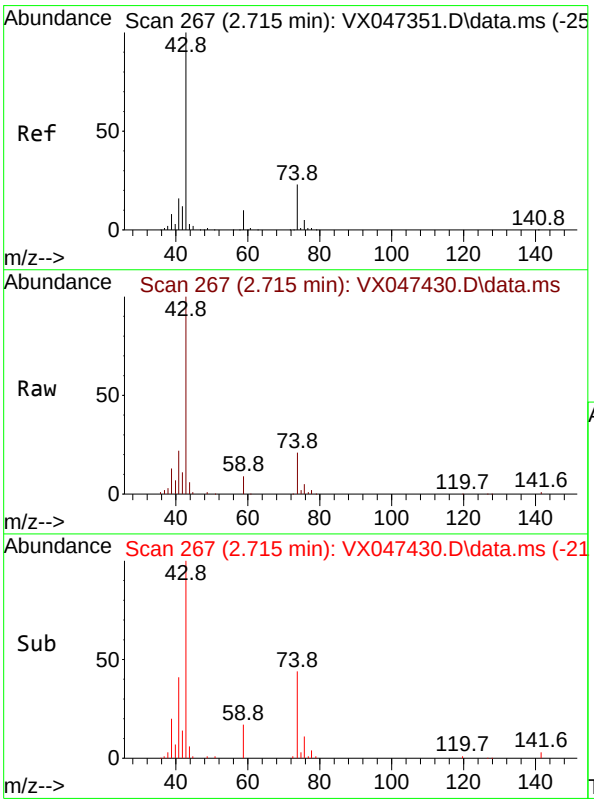
#17
Carbon Disulfide
Concen: 15.462 ug/l
RT: 2.526 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 76 Resp: 143721

Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.2	10.8

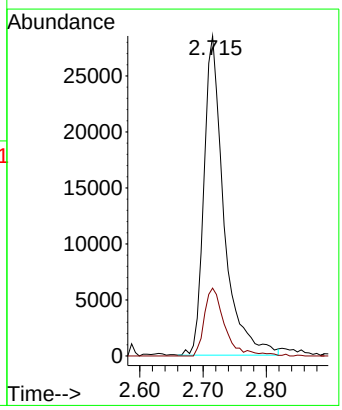


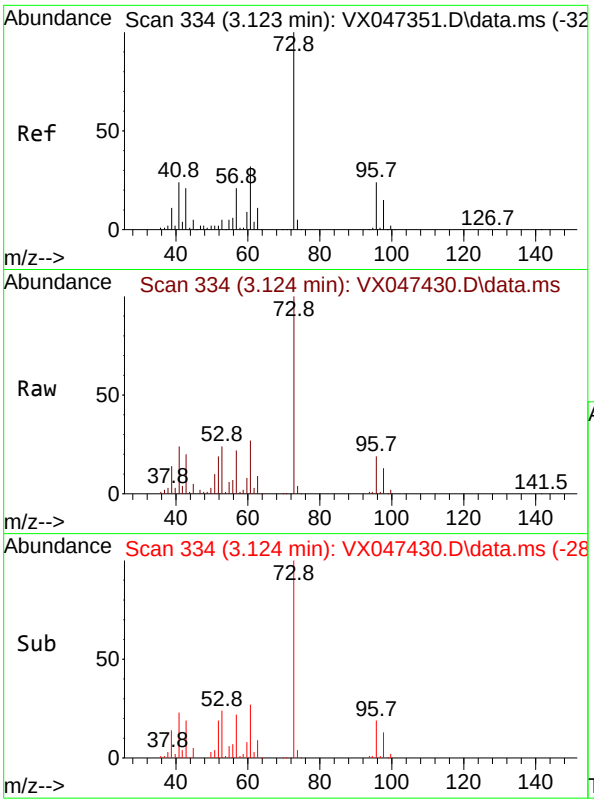


#18
Methyl Acetate
Concen: 18.747 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 43 Resp: 62524

Ion	Ratio	Lower	Upper
43	100		
74	21.8	18.4	27.6



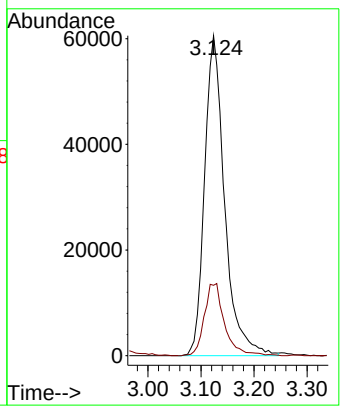


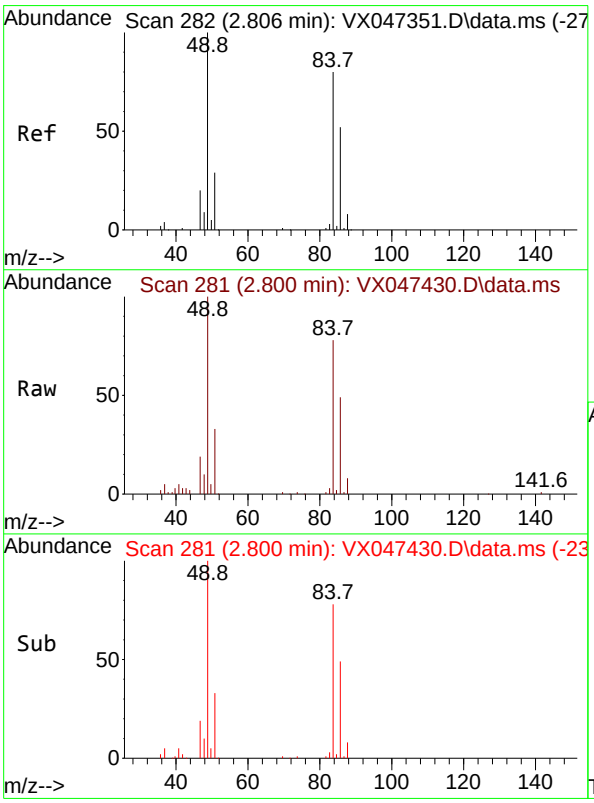
#19
Methyl tert-butyl Ether
Concen: 16.984 ug/l
RT: 3.124 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 73 Resp: 159152

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.0	25.6

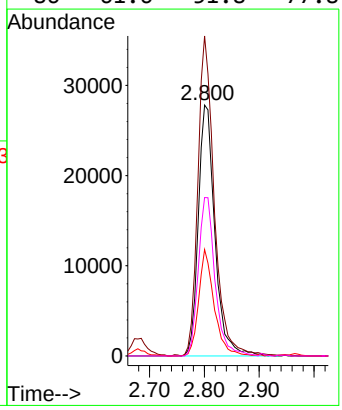


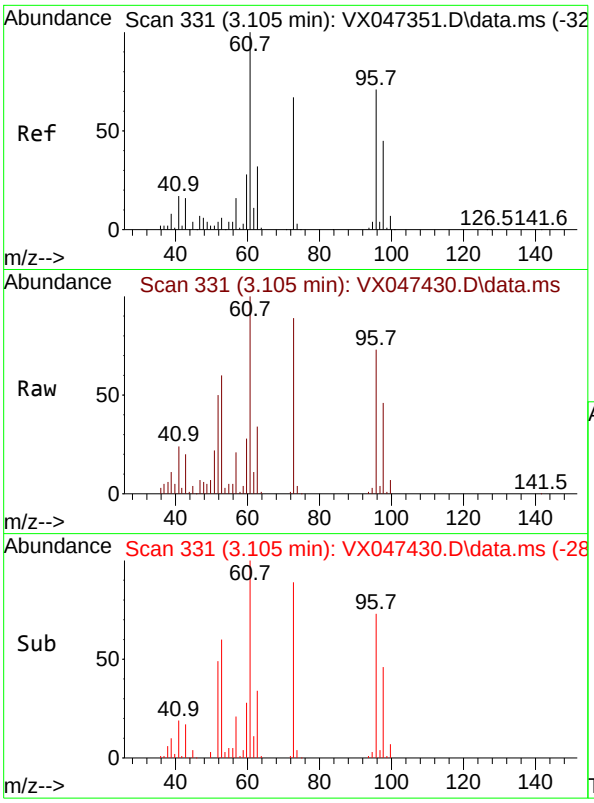


#20
Methylene Chloride
Concen: 17.192 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 84 Resp: 58590

Ion	Ratio	Lower	Upper
84	100		
49	124.2	100.1	150.1
51	41.4	29.5	44.3
86	61.6	51.8	77.8



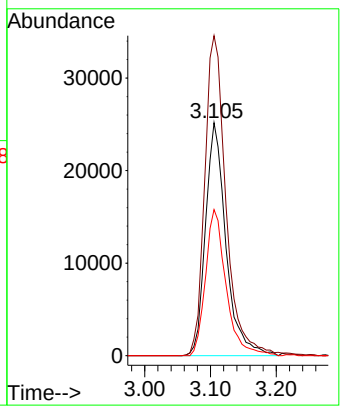


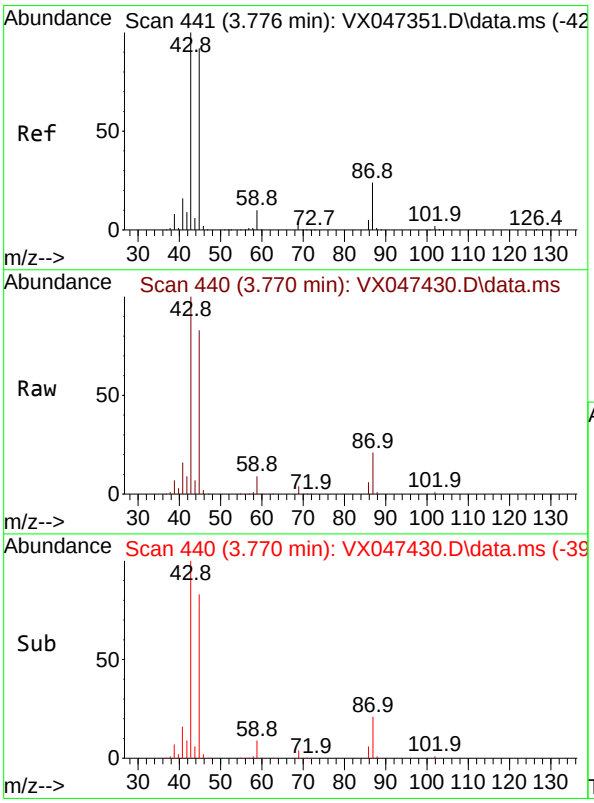
#21
trans-1,2-Dichloroethene
Concen: 16.697 ug/l
RT: 3.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 96 Resp: 54587

Ion	Ratio	Lower	Upper
96	100		
61	137.4	112.6	169.0
98	62.7	50.9	76.3

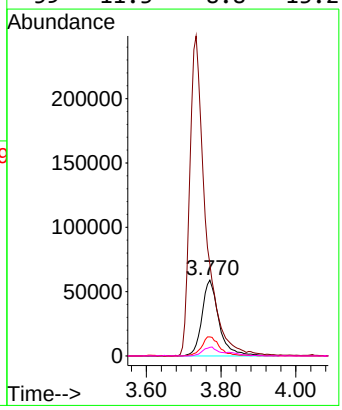


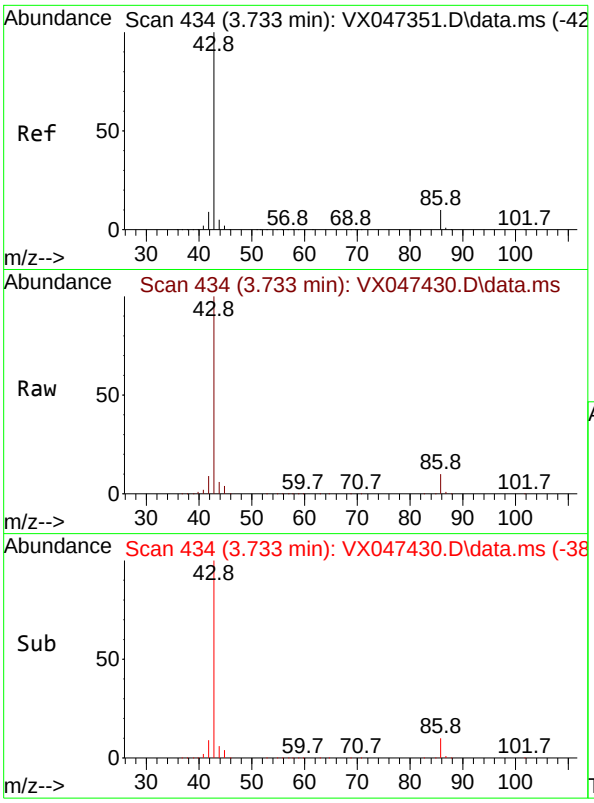


#22
Diisopropyl ether
Concen: 17.657 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 45 Resp: 186733

Ion	Ratio	Lower	Upper
45	100		
43	120.9	86.8	130.2
87	25.1	20.4	30.6
59	11.3	8.8	13.2



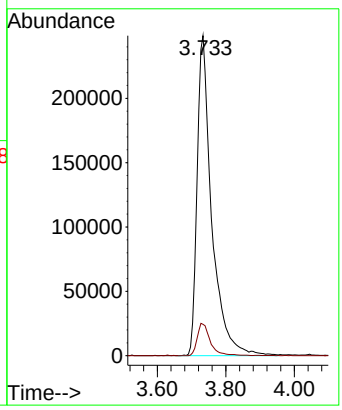


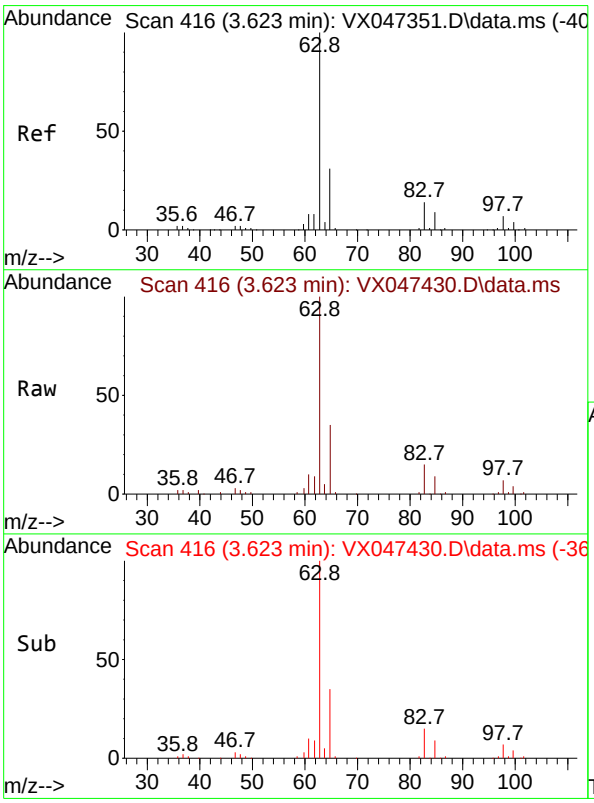
#23
Vinyl Acetate
Concen: 85.298 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 43 Resp: 739375

Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.9	11.9

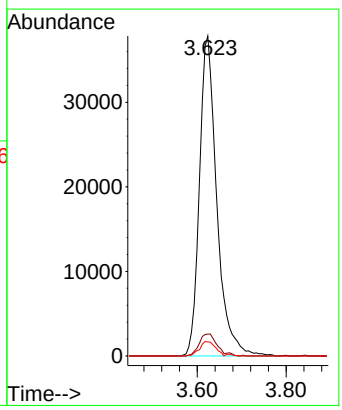


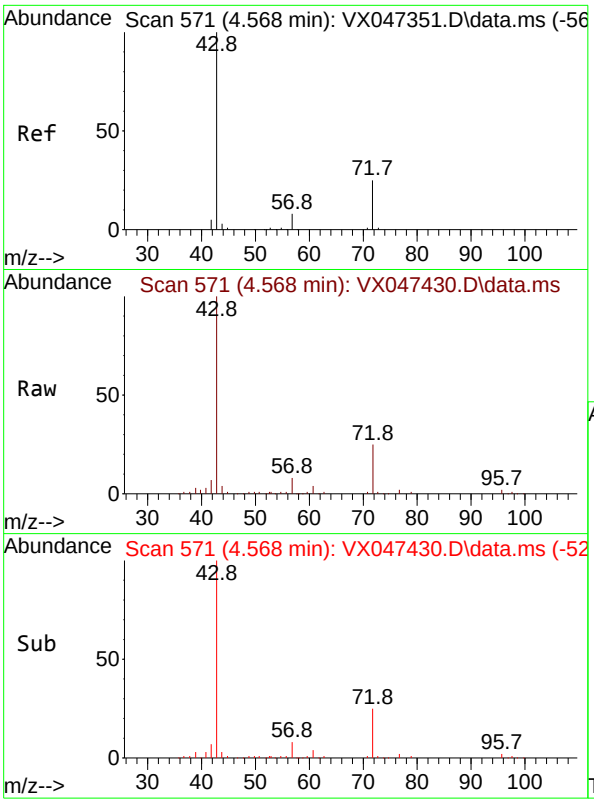


#24
1,1-Dichloroethane
Concen: 17.216 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 63 Resp: 102911

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.3	9.9
100	4.4	2.1	6.3



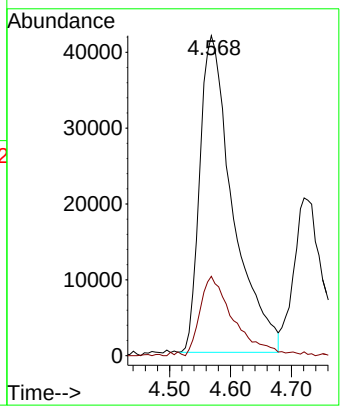


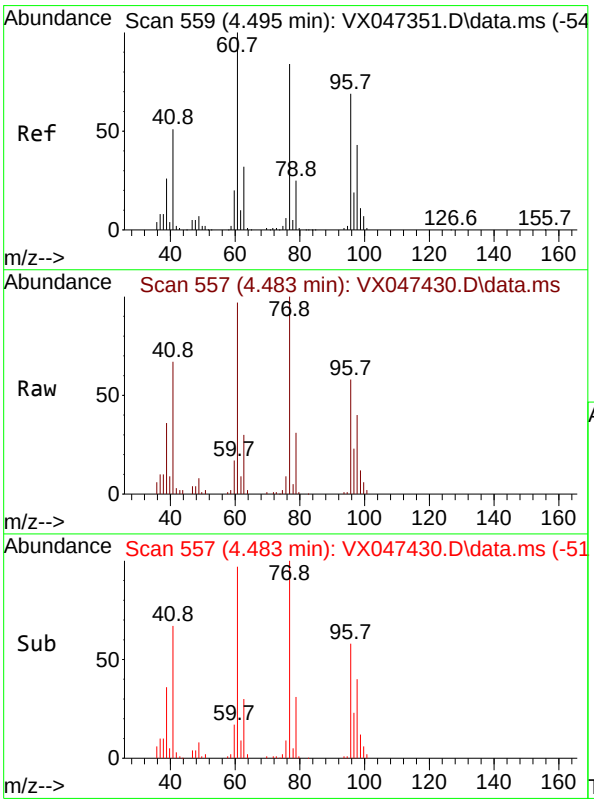
#25
2-Butanone
Concen: 93.136 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 43 Resp: 156985

Ion	Ratio	Lower	Upper
43	100		
72	25.0	19.8	29.8

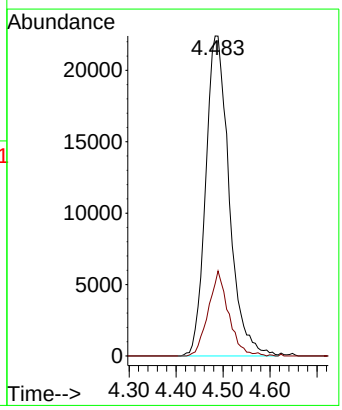


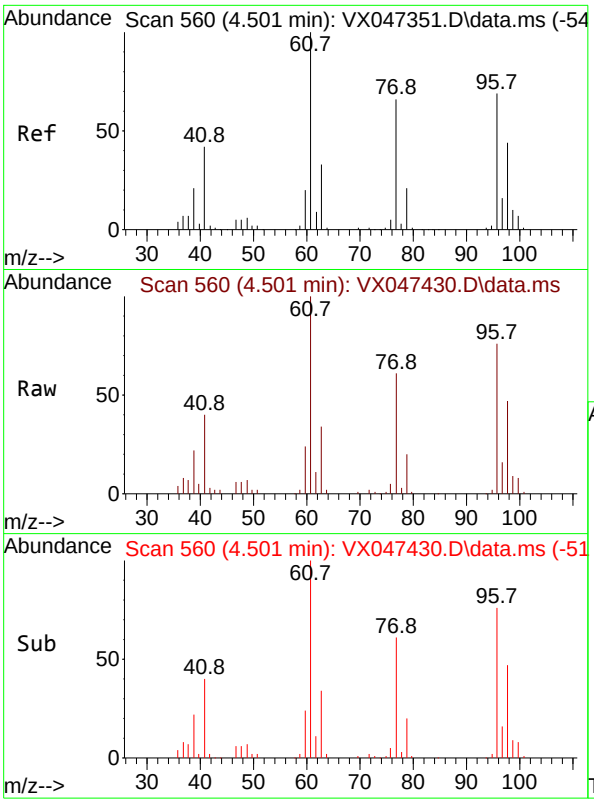


#26
2,2-Dichloropropane
Concen: 17.212 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.012 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 77 Resp: 77655

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.4	34.1



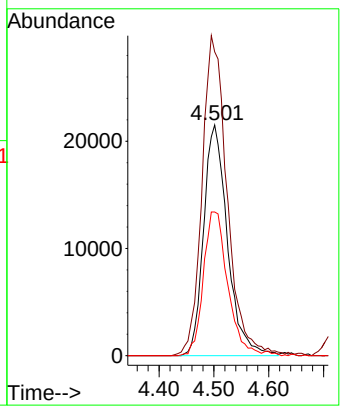


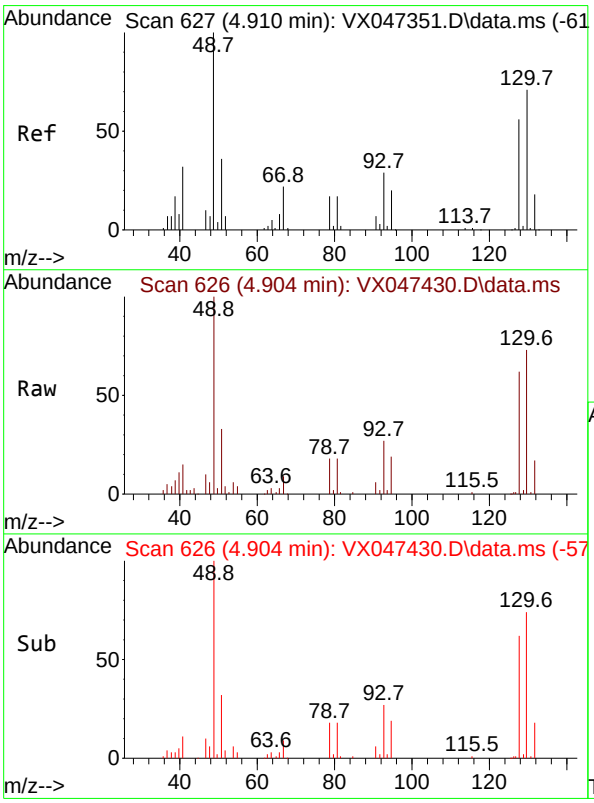
#27
cis-1,2-Dichloroethene
Concen: 17.059 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 96 Resp: 64958

Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	296.6
98	63.3	0.0	130.4

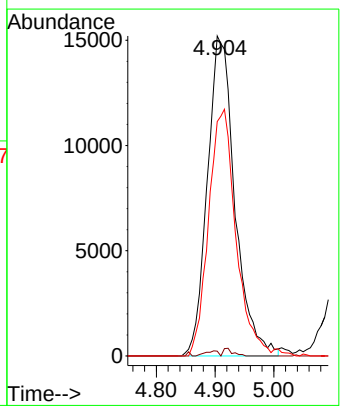


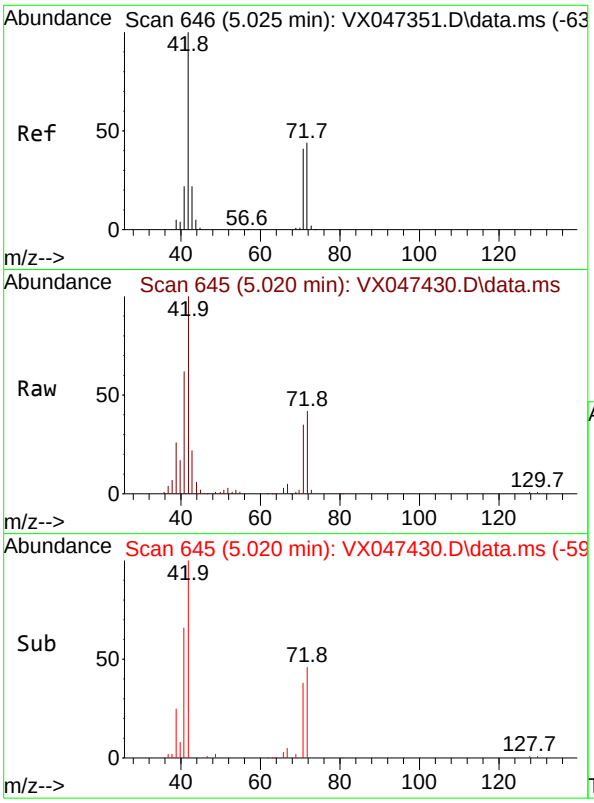


#28
Bromochloromethane
Concen: 19.883 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 49 Resp: 49457

Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	4.0
130	0.0	59.8	89.6#



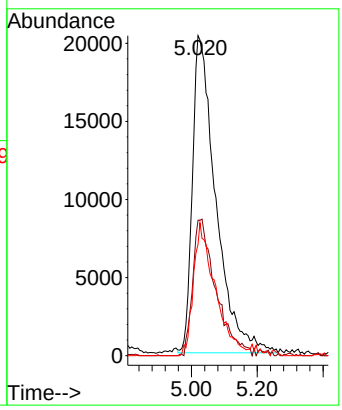


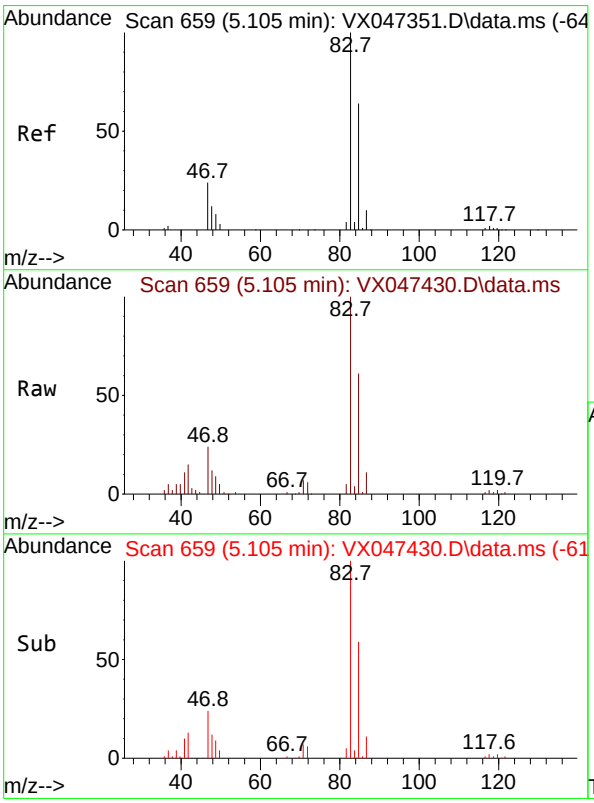
#29
Tetrahydrofuran
Concen: 92.088 ug/l
RT: 5.020 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 42 Resp: 100323

Ion	Ratio	Lower	Upper
42	100		
72	42.5	34.6	51.8
71	38.6	32.6	49.0

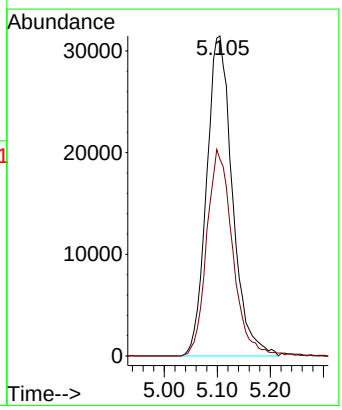


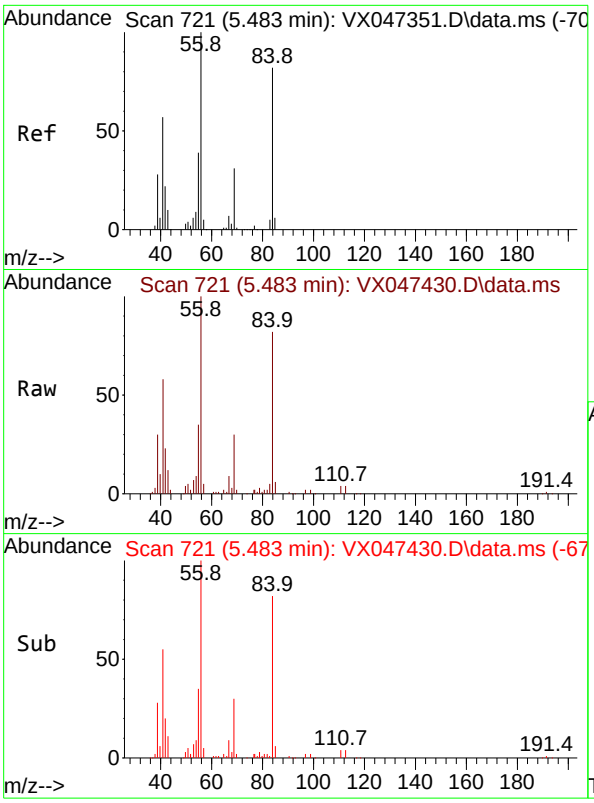


#30
Chloroform
Concen: 17.414 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 83 Resp: 106236

Ion	Ratio	Lower	Upper
83	100		
85	61.4	51.2	76.8



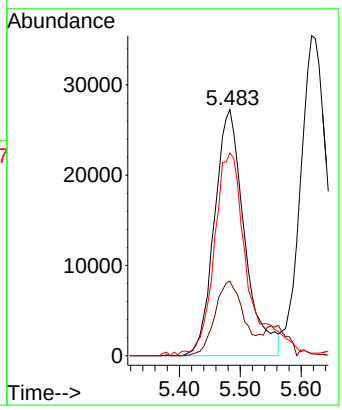


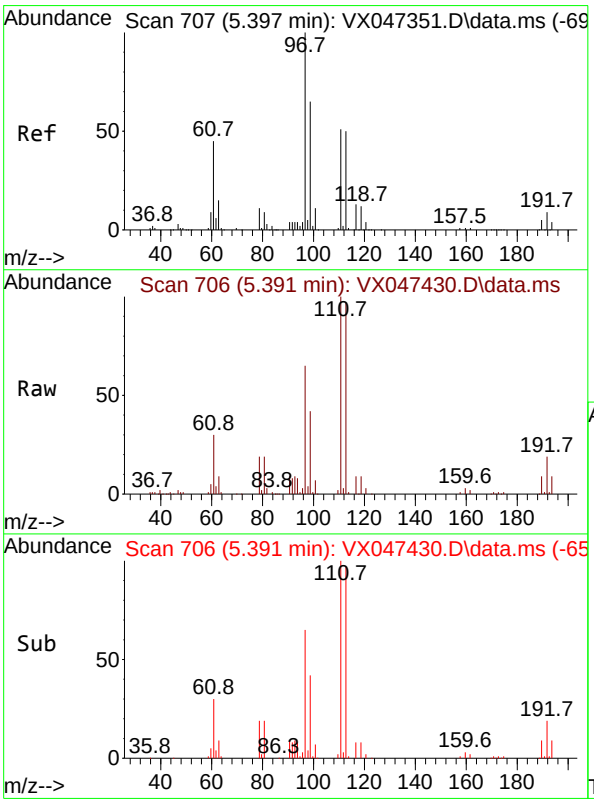
#31
Cyclohexane
Concen: 16.971 ug/l
RT: 5.483 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 56 Resp: 93514

Ion	Ratio	Lower	Upper
56	100		
69	30.3	24.3	36.5
84	82.1	65.3	97.9

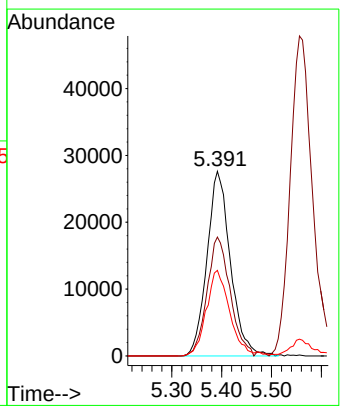


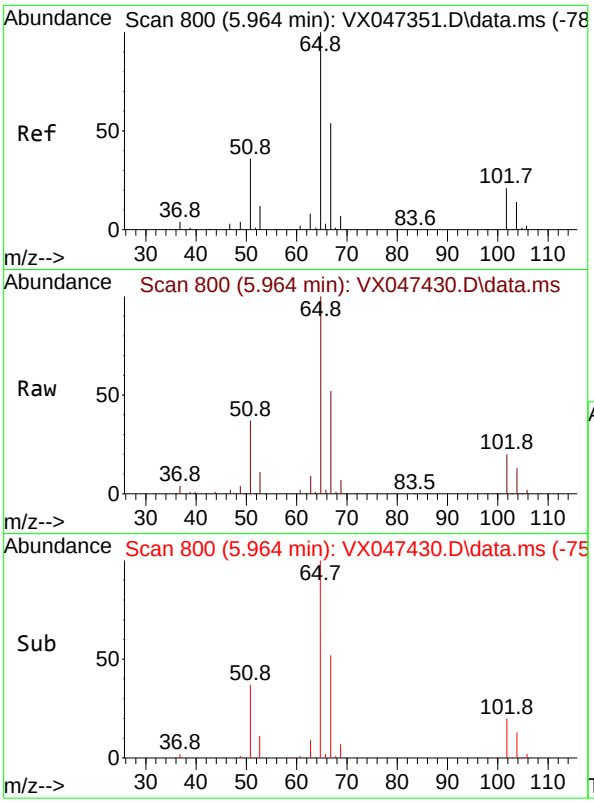


#32
1,1,1-Trichloroethane
Concen: 17.183 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 97 Resp: 90227

Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.4	77.0
61	46.6	35.7	53.5



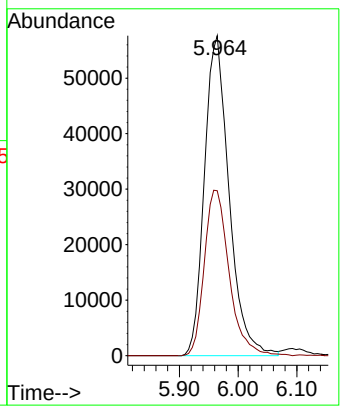


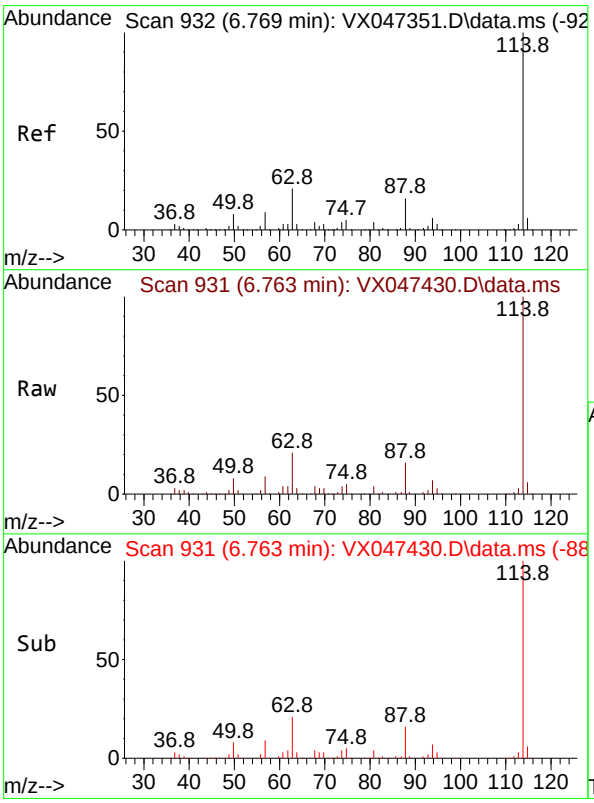
#33
1,2-Dichloroethane-d4
Concen: 49.014 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 65 Resp: 167819

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	106.0

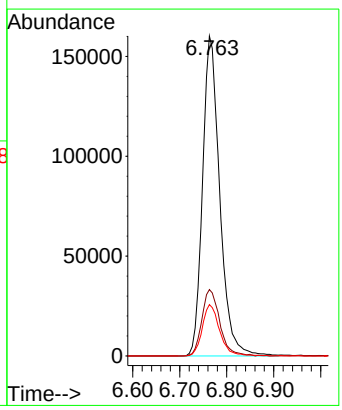


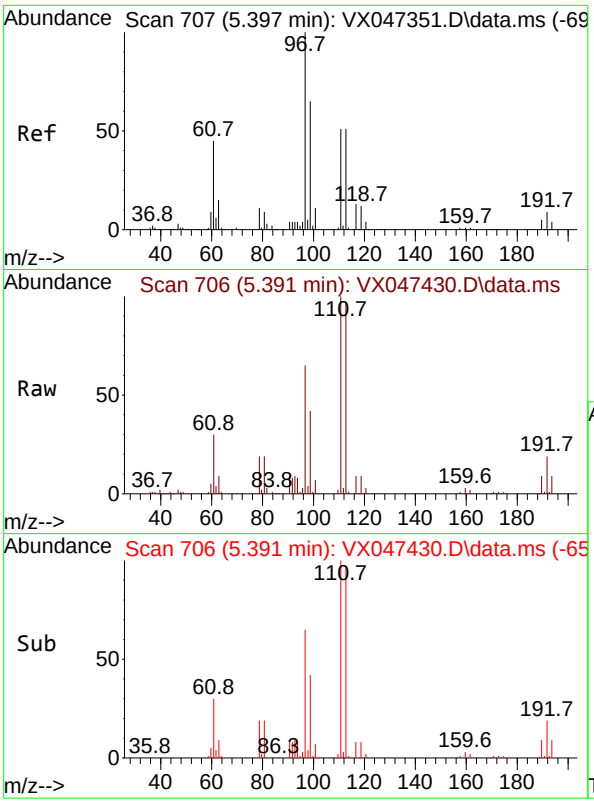


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:114 Resp: 407608

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	42.4
88	16.0	0.0	33.0



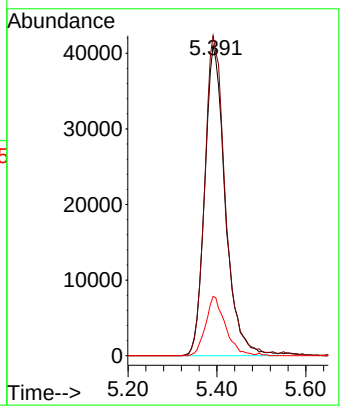


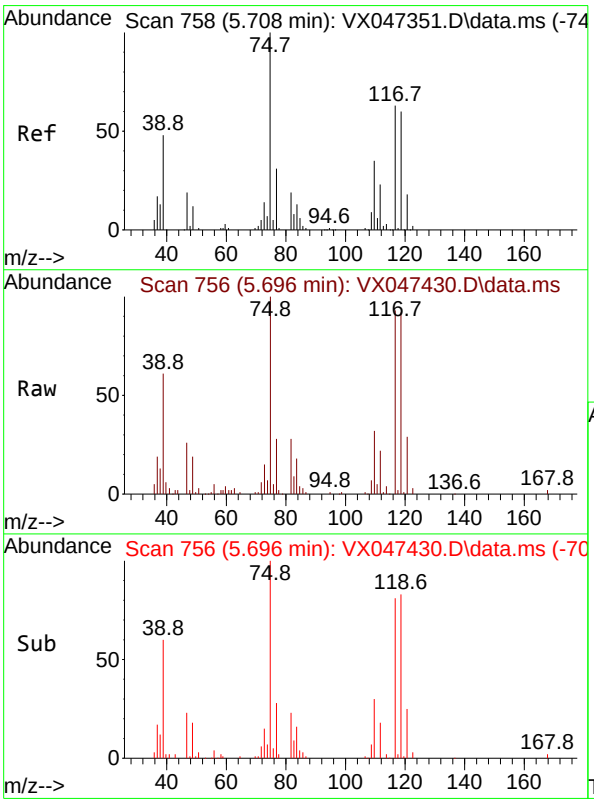
#35
Dibromofluoromethane
Concen: 49.849 ug/l
RT: 5.391 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:113 Resp: 131872

Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.4	122.2
192	18.3	14.1	21.1

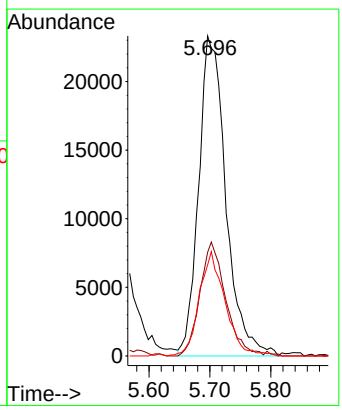


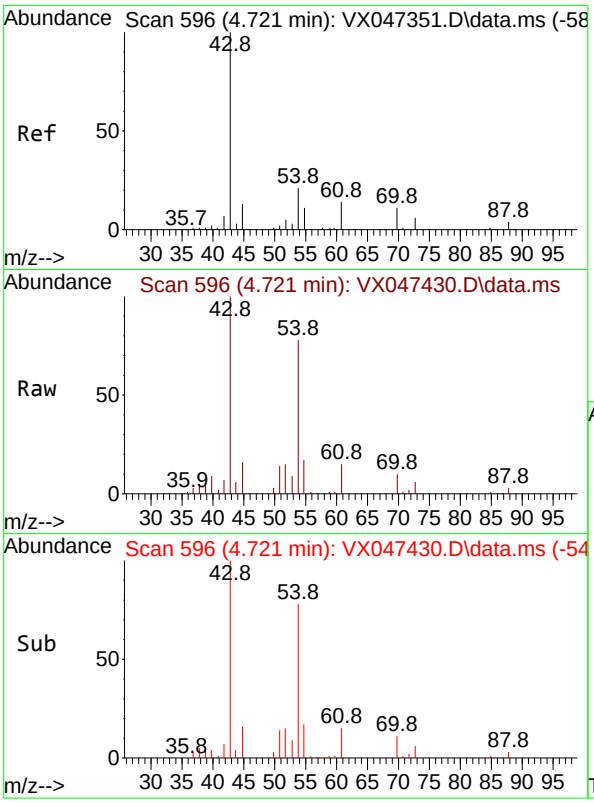


#36
1,1-Dichloropropene
Concen: 17.363 ug/l
RT: 5.696 min Scan# 756
Delta R.T. -0.012 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 75 Resp: 72507

Ion	Ratio	Lower	Upper
75	100		
110	33.7	17.4	52.2
77	31.0	24.4	36.6



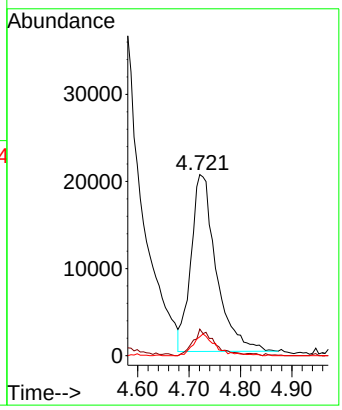


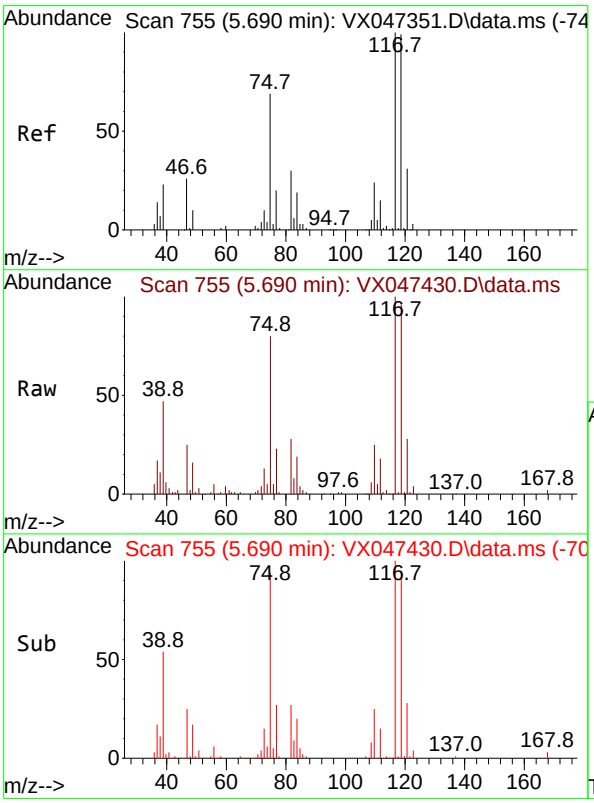
#37
Ethyl Acetate
Concen: 16.002 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 43 Resp: 69374

Ion	Ratio	Lower	Upper
43	100		
61	12.7	9.4	14.2
70	10.8	7.0	10.6#

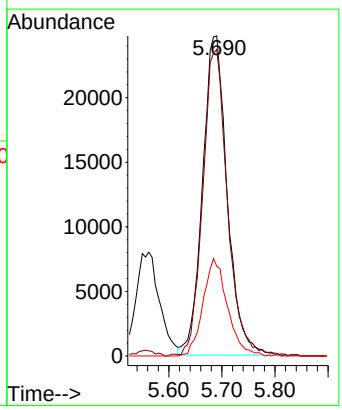


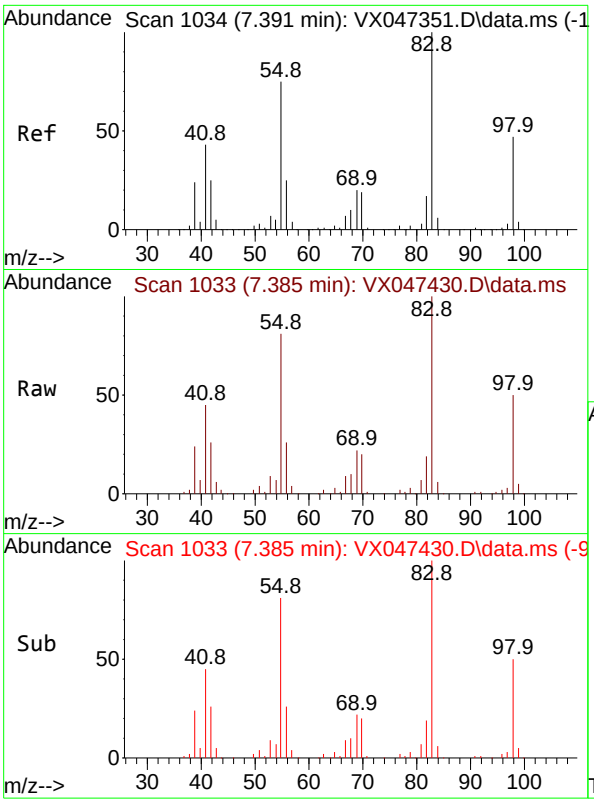


#38
Carbon Tetrachloride
Concen: 17.538 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:117 Resp: 80032

Ion	Ratio	Lower	Upper
117	100		
119	95.7	78.5	117.7
121	28.1	24.7	37.1



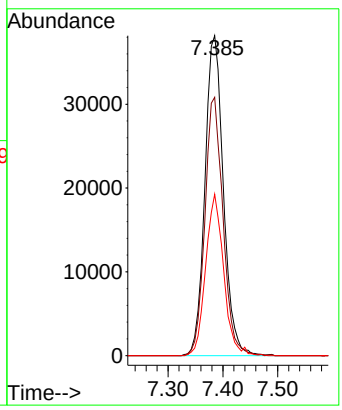


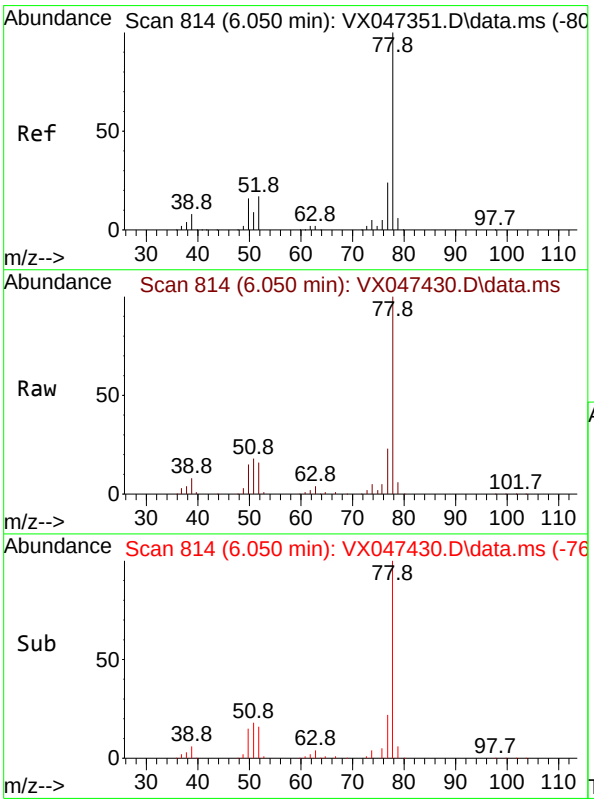
#39
Methylcyclohexane
Concen: 17.110 ug/l
RT: 7.385 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 83 Resp: 89125

Ion	Ratio	Lower	Upper
83	100		
55	80.7	60.0	90.0
98	50.5	37.2	55.8

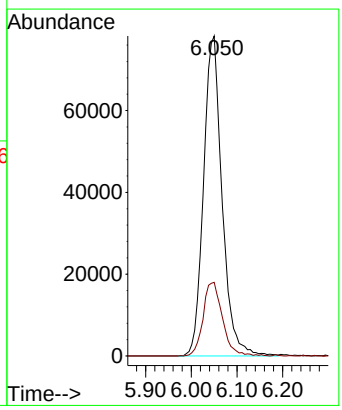


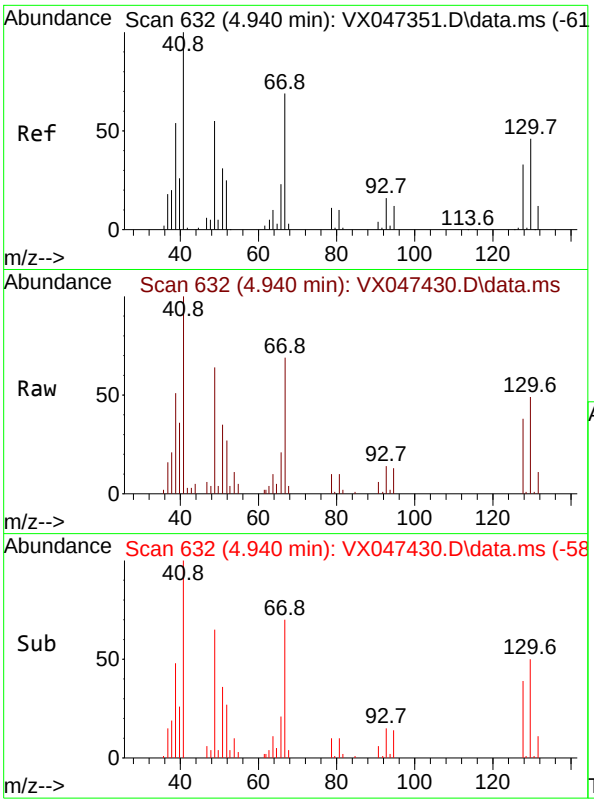


#40
Benzene
Concen: 17.630 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 78 Resp: 220365

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.0	28.4



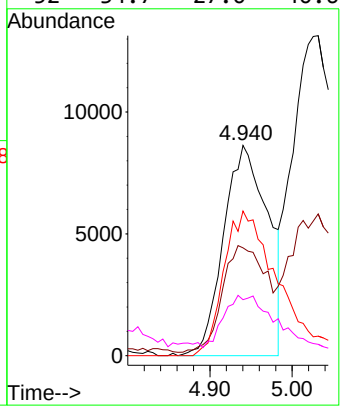


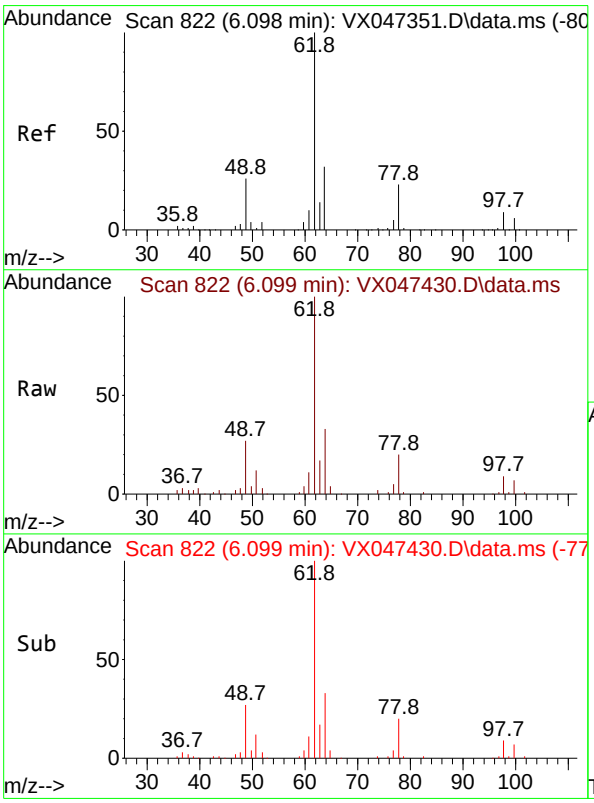
#41
Methacrylonitrile
Concen: 17.692 ug/l
RT: 4.940 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 41 Resp: 32344

Ion	Ratio	Lower	Upper
41	100		
39	49.3	45.4	68.2
67	85.8	64.0	96.0
52	34.7	27.0	40.6

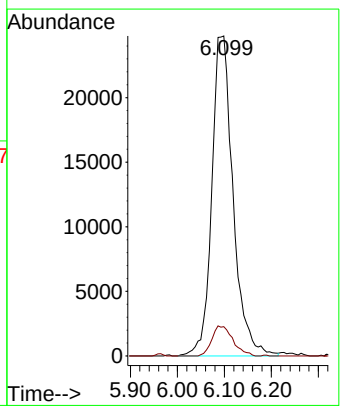


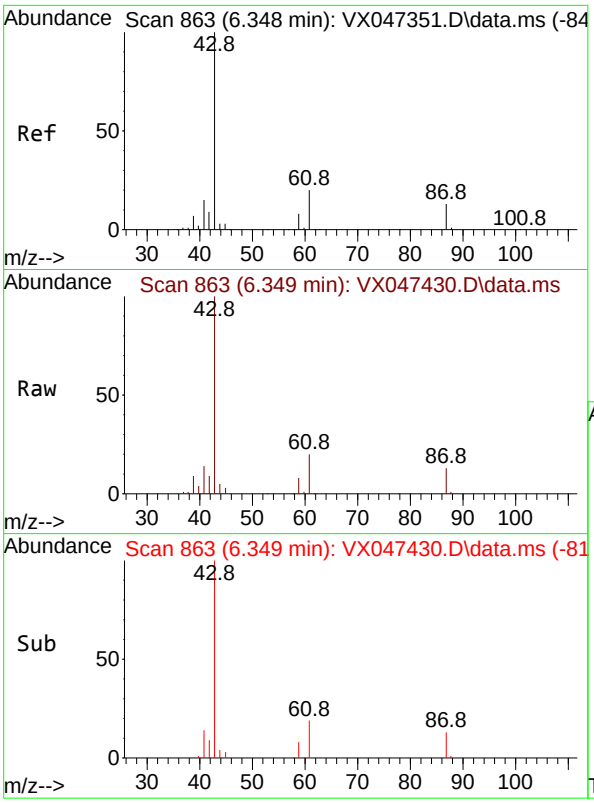


#42
1,2-Dichloroethane
Concen: 17.599 ug/l
RT: 6.099 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 62 Resp: 77919

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.0



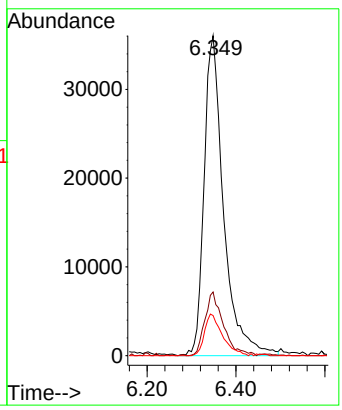


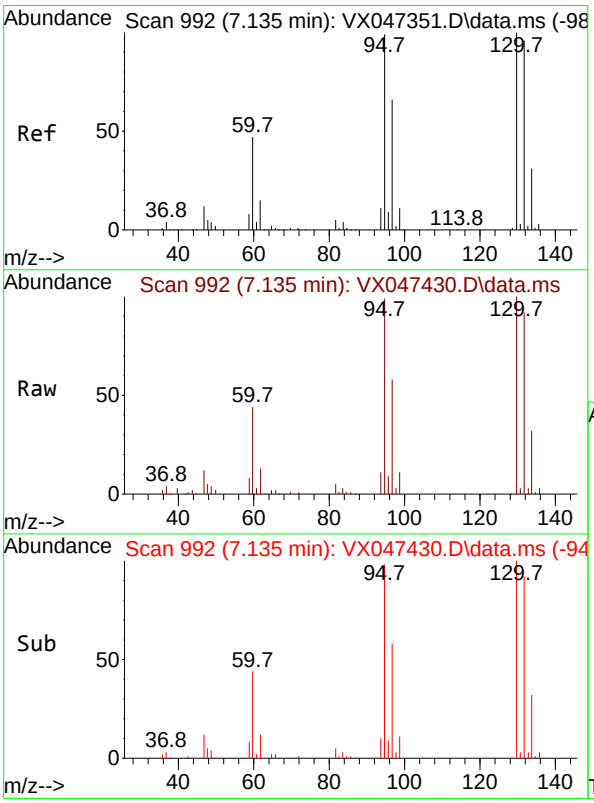
#43
Isopropyl Acetate
Concen: 17.688 ug/l
RT: 6.349 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 43 Resp: 110163

Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.4	23.0
87	12.0	10.2	15.4

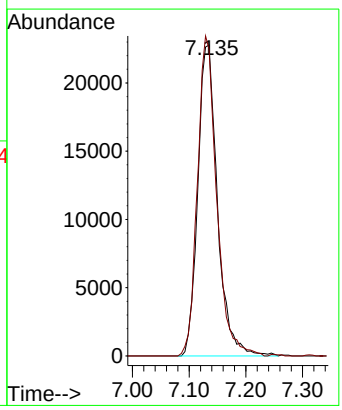


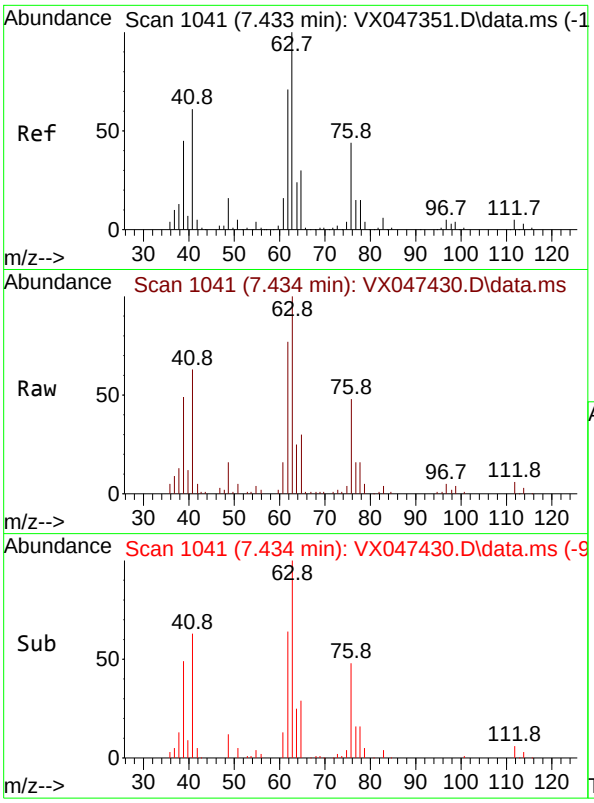


#44
Trichloroethene
Concen: 17.170 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:130 Resp: 54954

Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	198.6



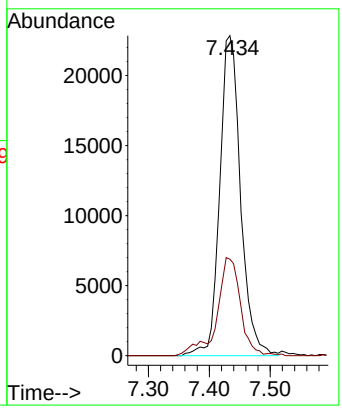


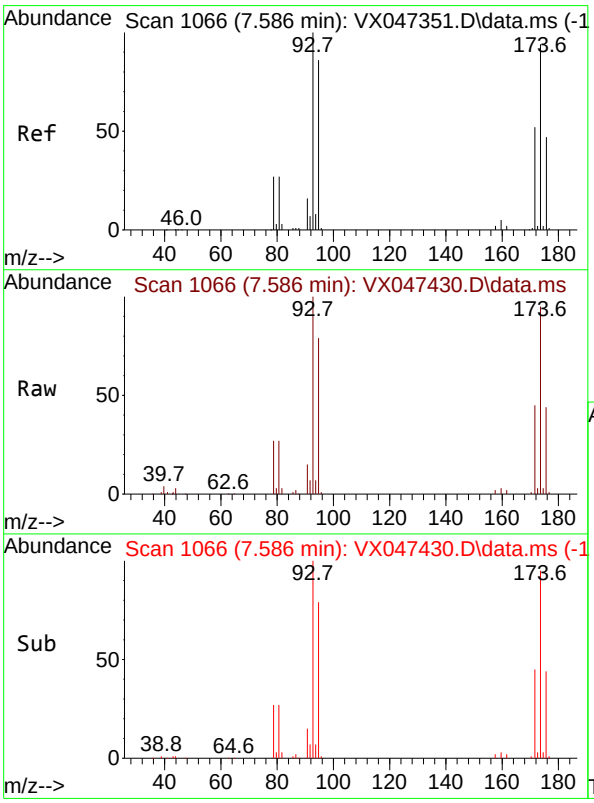
#45
1,2-Dichloropropane
Concen: 17.332 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 63 Resp: 54273

Ion	Ratio	Lower	Upper
63	100		
65	29.8	23.8	35.6

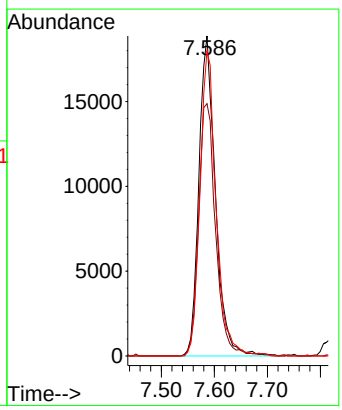


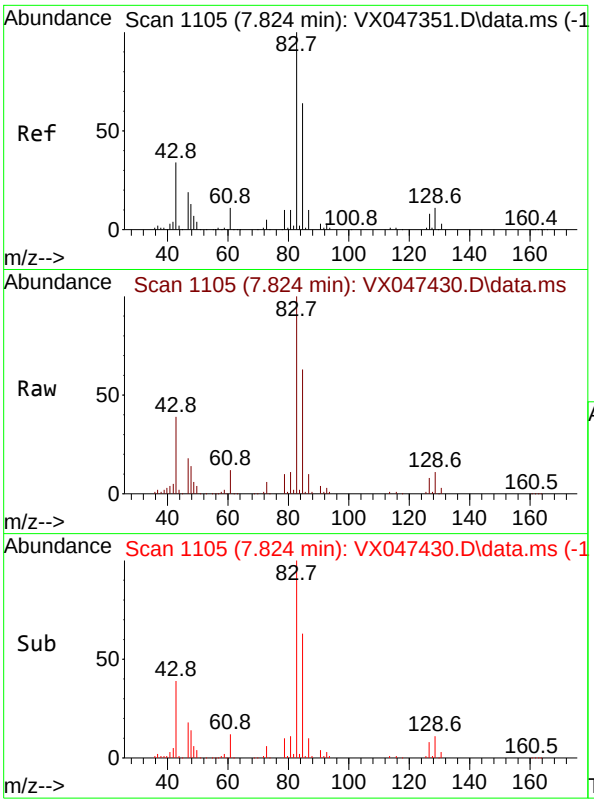


#46
Dibromomethane
Concen: 17.902 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 93 Resp: 40698

Ion	Ratio	Lower	Upper
93	100		
95	81.8	68.0	102.0
174	93.4	75.8	113.6



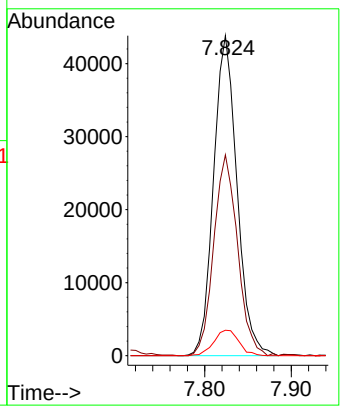


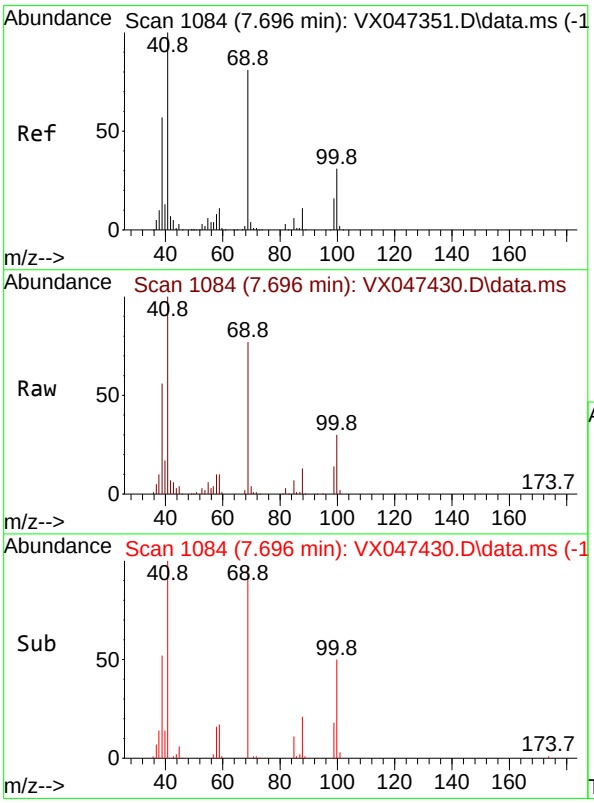
#47
Bromodichloromethane
Concen: 17.469 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 83 Resp: 82328

Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.0	76.6
127	8.0	7.0	10.4

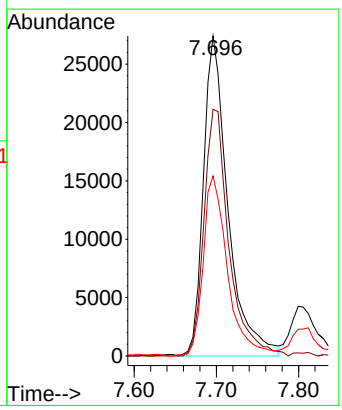


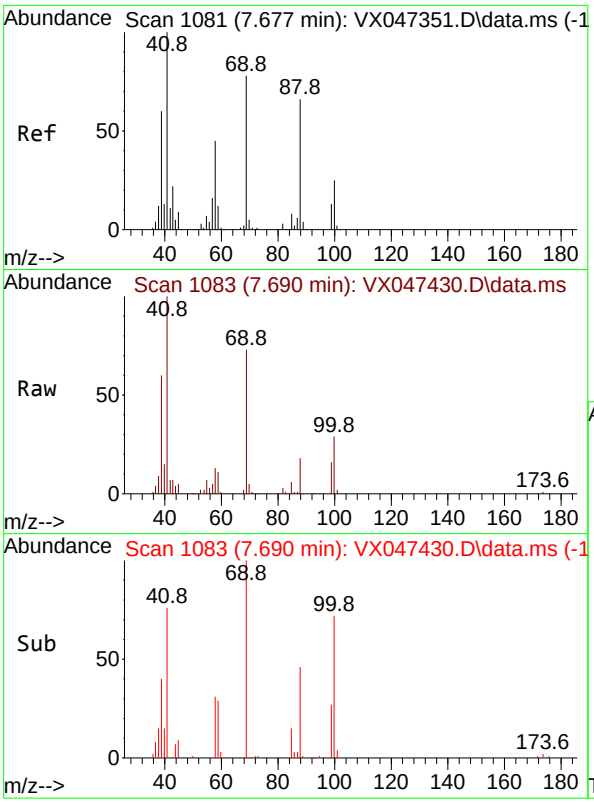


#48
Methyl methacrylate
Concen: 17.587 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 41 Resp: 56854

Ion	Ratio	Lower	Upper
41	100		
69	78.3	65.0	97.4
39	55.6	45.7	68.5



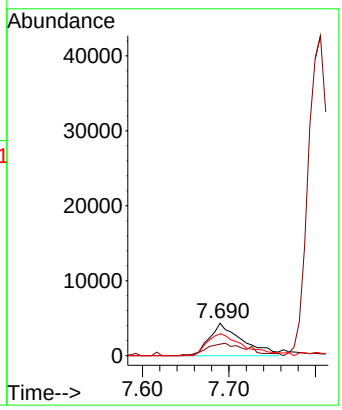


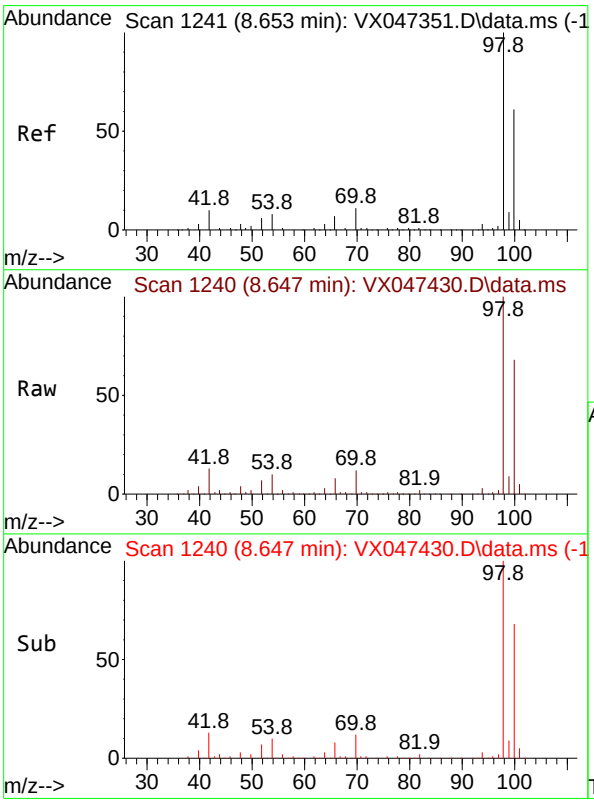
#49
1,4-Dioxane
Concen: 362.941 ug/l
RT: 7.690 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 88 Resp: 11406

Ion	Ratio	Lower	Upper
88	100		
43	47.6	32.4	48.6
58	75.2	56.9	85.3

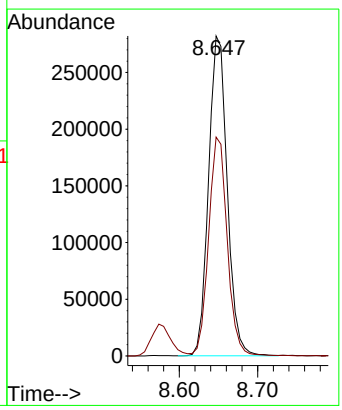


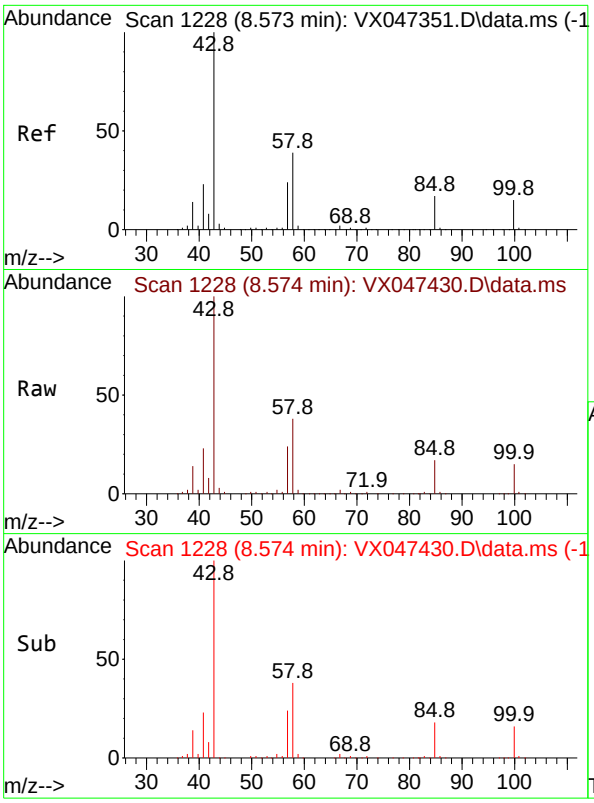


#50
Toluene-d8
Concen: 49.239 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 98 Resp: 465580

Ion	Ratio	Lower	Upper
98	100		
100	68.0	53.9	80.9



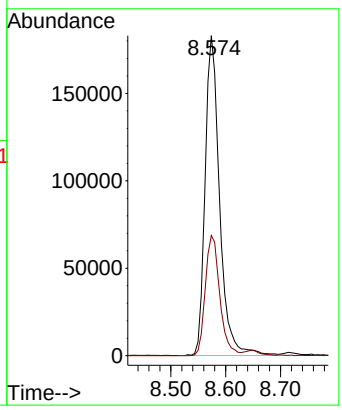


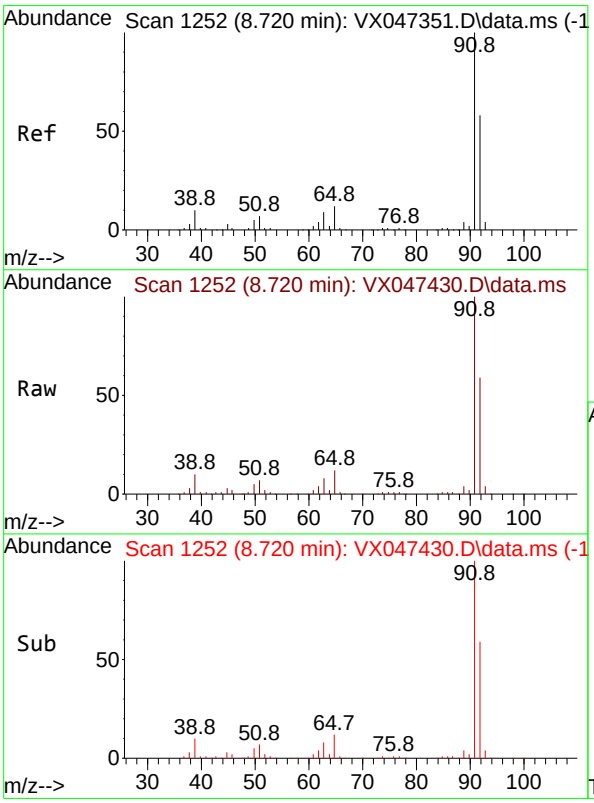
#51
4-Methyl-2-Pentanone
Concen: 93.506 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 43 Resp: 335125

Ion	Ratio	Lower	Upper
43	100		
58	37.6	31.2	46.8

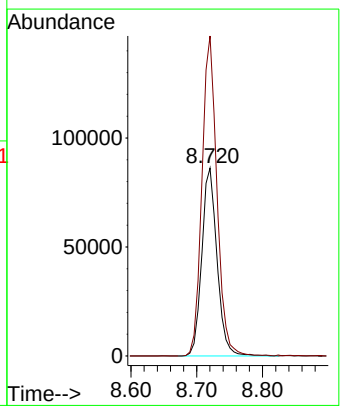


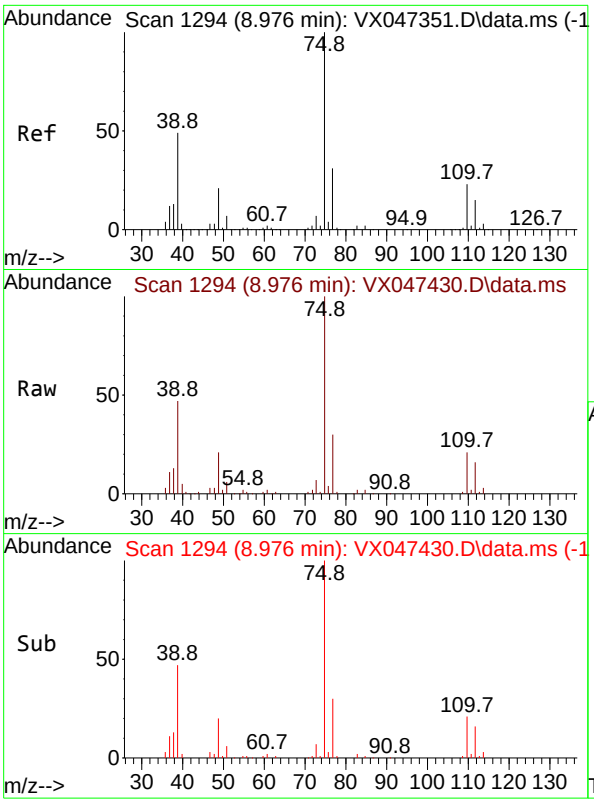


#52
Toluene
Concen: 17.981 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 92 Resp: 138882

Ion	Ratio	Lower	Upper
92	100		
91	168.0	136.3	204.5



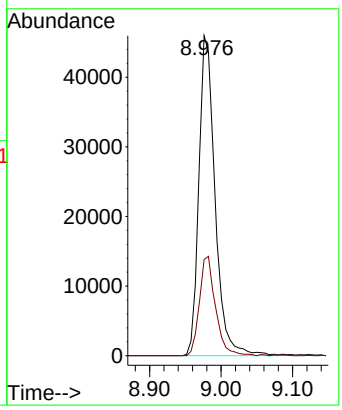


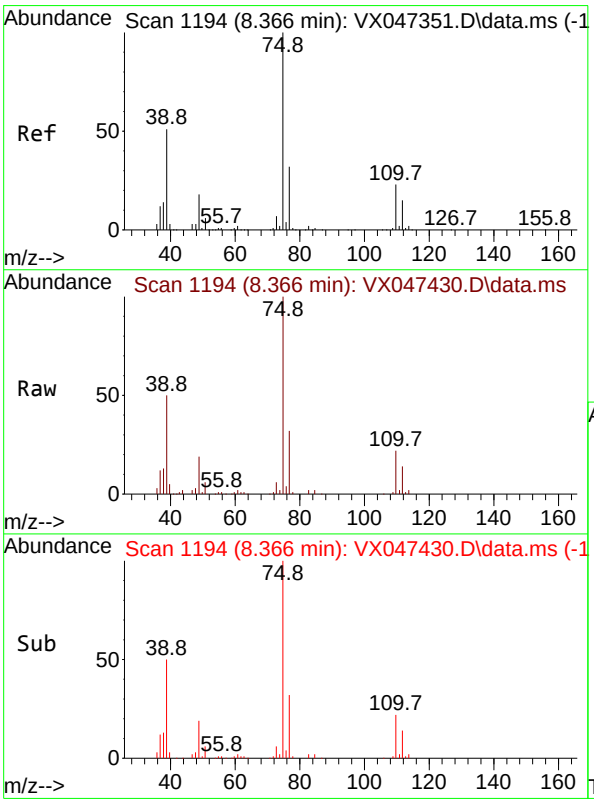
#53
t-1,3-Dichloropropene
Concen: 17.602 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 75 Resp: 72403

Ion	Ratio	Lower	Upper
75	100		
77	30.1	24.7	37.1

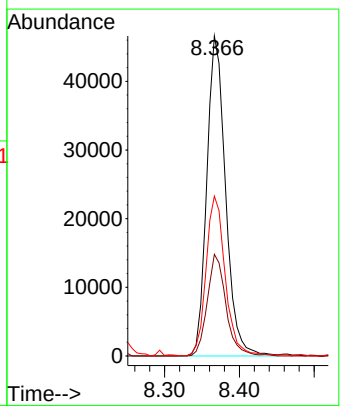


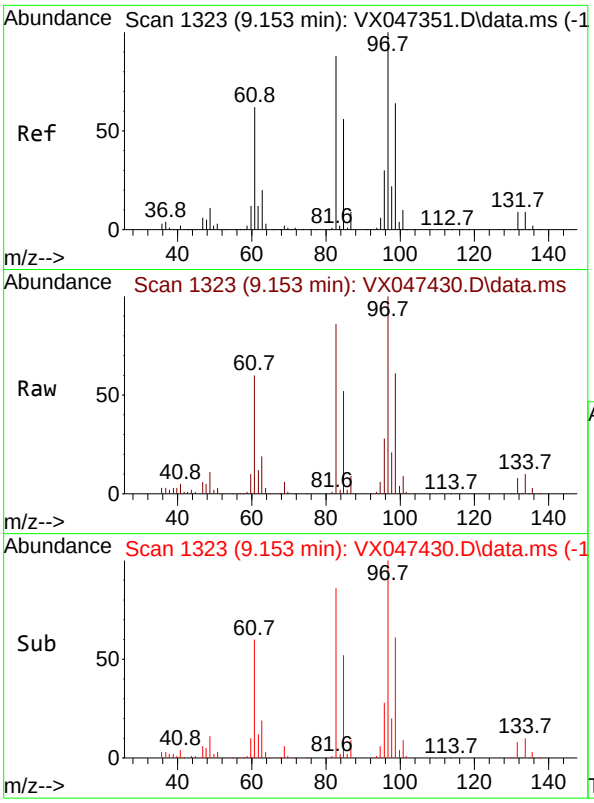


#54
cis-1,3-Dichloropropene
Concen: 17.445 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 75 Resp: 81220

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.6	38.4
39	54.2	40.9	61.3



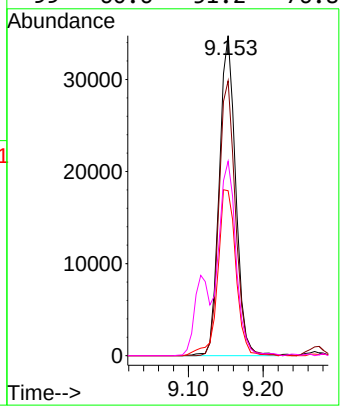


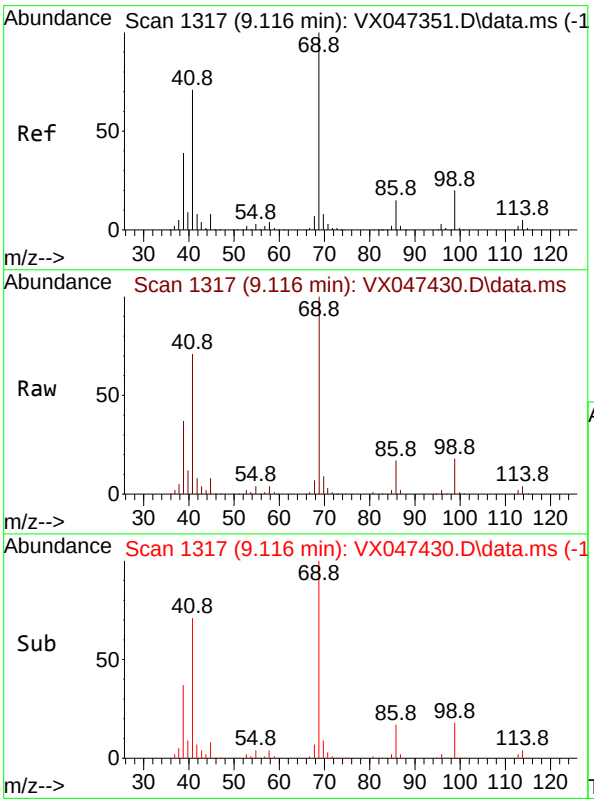
#55
1,1,2-Trichloroethane
Concen: 18.120 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 97 Resp: 53137

Ion	Ratio	Lower	Upper
97	100		
83	85.9	70.6	106.0
85	51.6	44.7	67.1
99	60.6	51.2	76.8

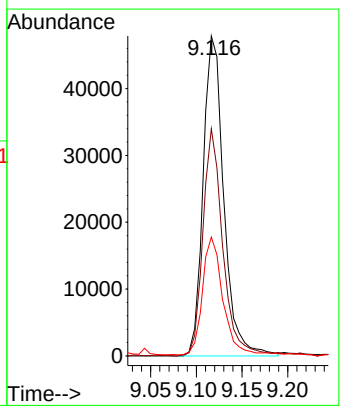


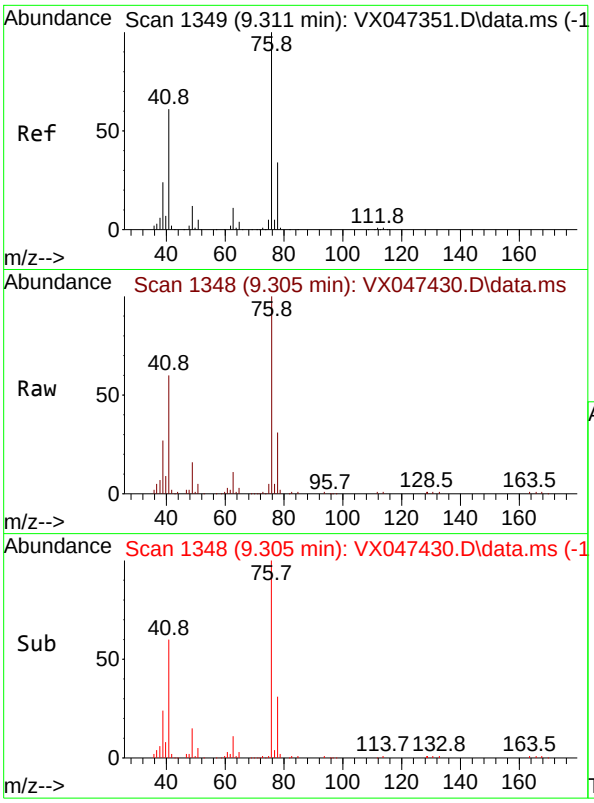


#56
Ethyl methacrylate
Concen: 17.389 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 69 Resp: 75185

Ion	Ratio	Lower	Upper
69	100		
41	69.0	55.3	82.9
39	36.3	30.2	45.2



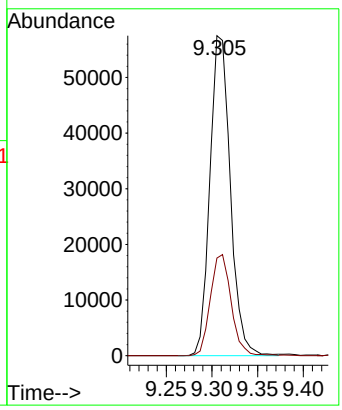


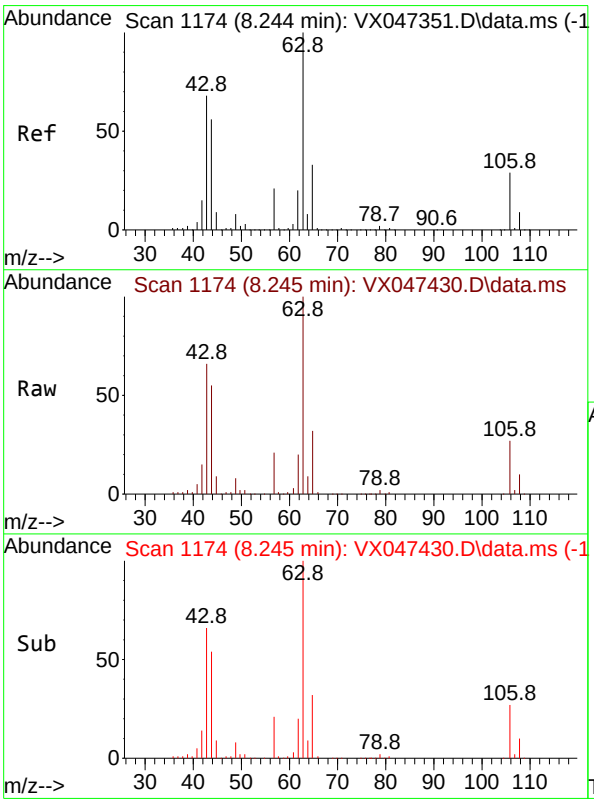
#57
1,3-Dichloropropane
Concen: 17.876 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 76 Resp: 89328

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.2

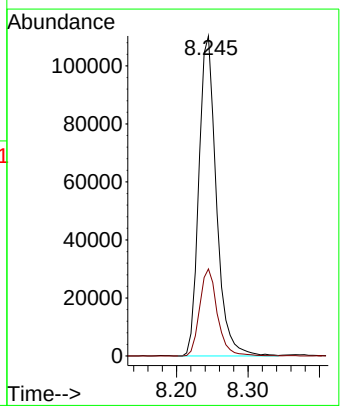


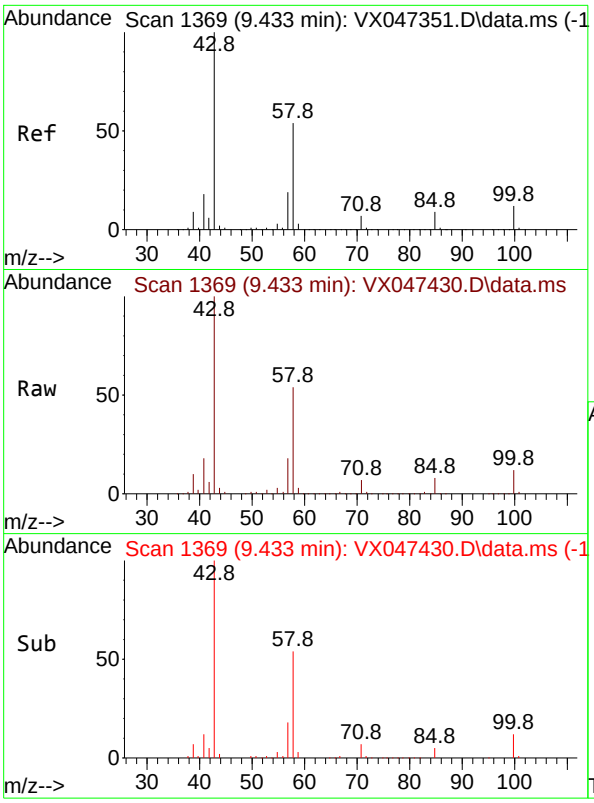


#58
2-Chloroethyl Vinyl ether
Concen: 95.949 ug/l
RT: 8.245 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 63 Resp: 187096

Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.8	34.2



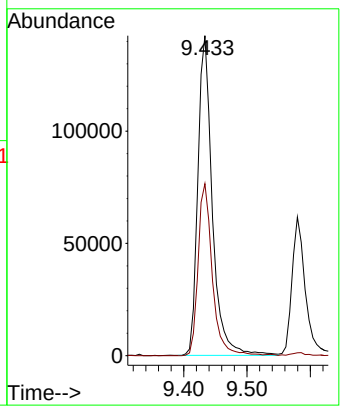


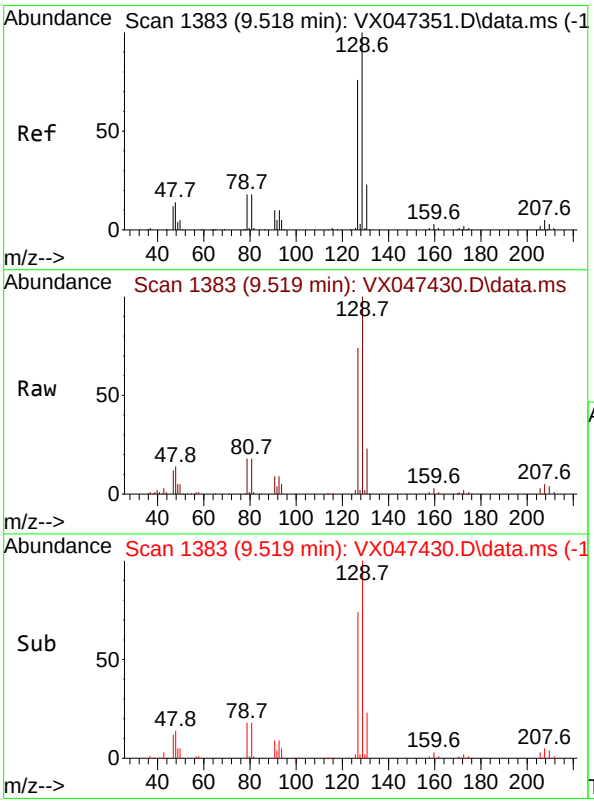
#59
2-Hexanone
Concen: 91.559 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 43 Resp: 226987

Ion	Ratio	Lower	Upper
43	100		
58	52.8	26.9	80.7

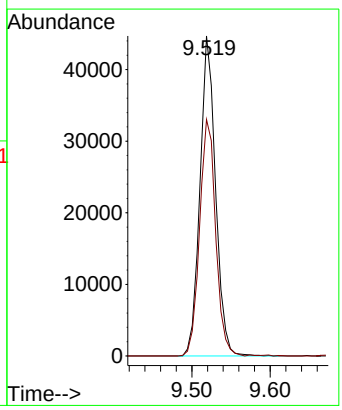


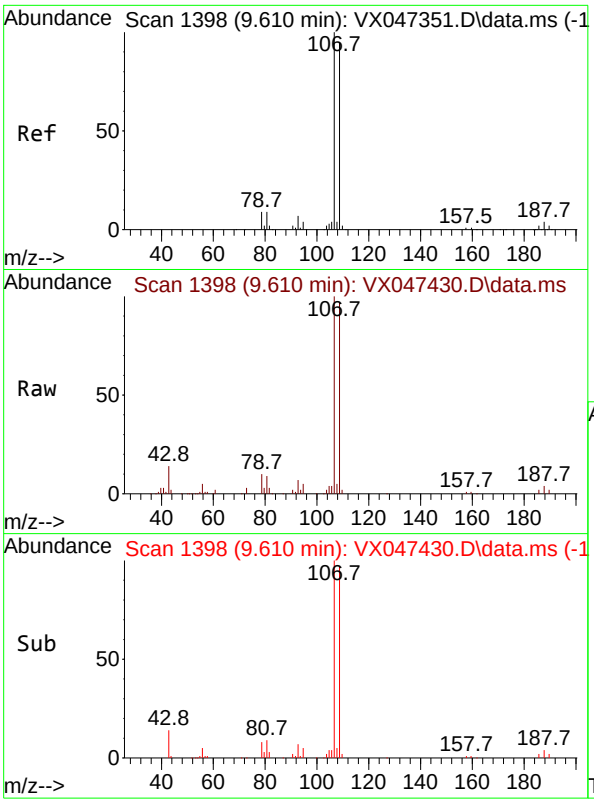


#60
Dibromochloromethane
Concen: 17.691 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:129 Resp: 61655

Ion	Ratio	Lower	Upper
129	100		
127	76.1	38.9	116.6



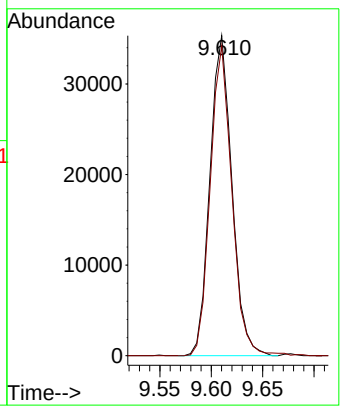


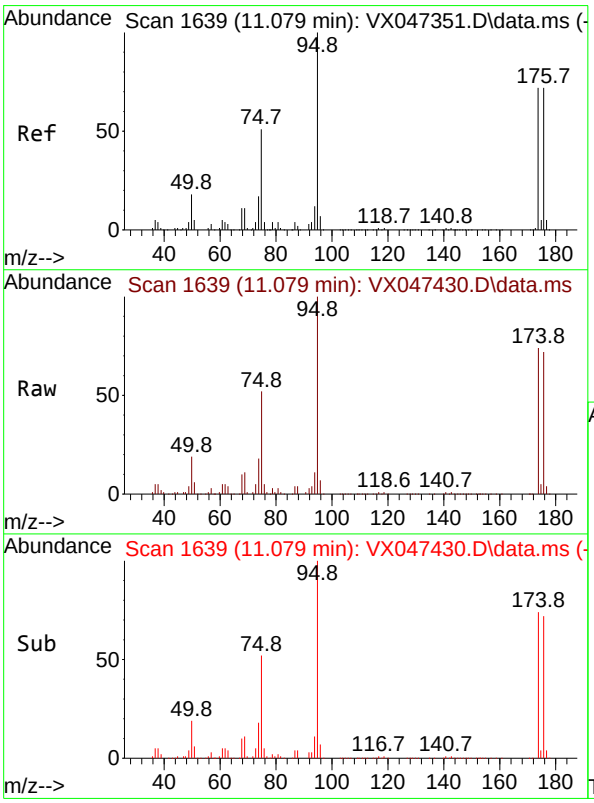
#61
1,2-Dibromoethane
Concen: 17.373 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:107 Resp: 52535

Ion	Ratio	Lower	Upper
107	100		
109	95.3	76.2	114.2

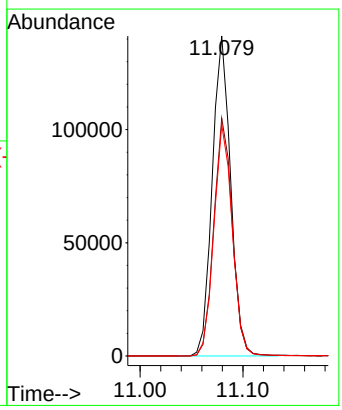


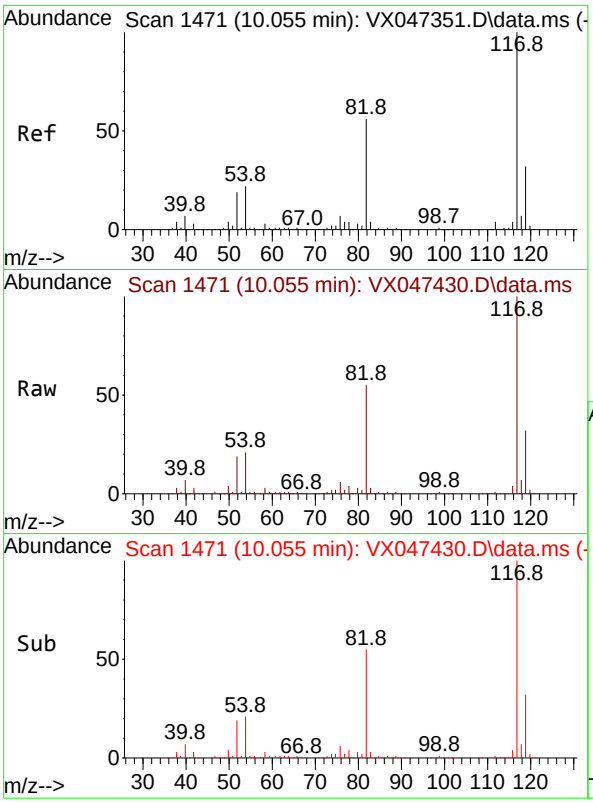


#62
4-Bromofluorobenzene
Concen: 50.176 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 95 Resp: 175075

Ion	Ratio	Lower	Upper
95	100		
174	75.1	0.0	148.0
176	72.5	0.0	145.4



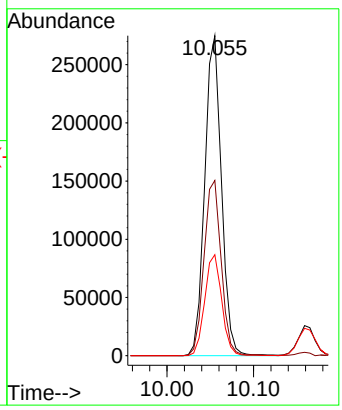


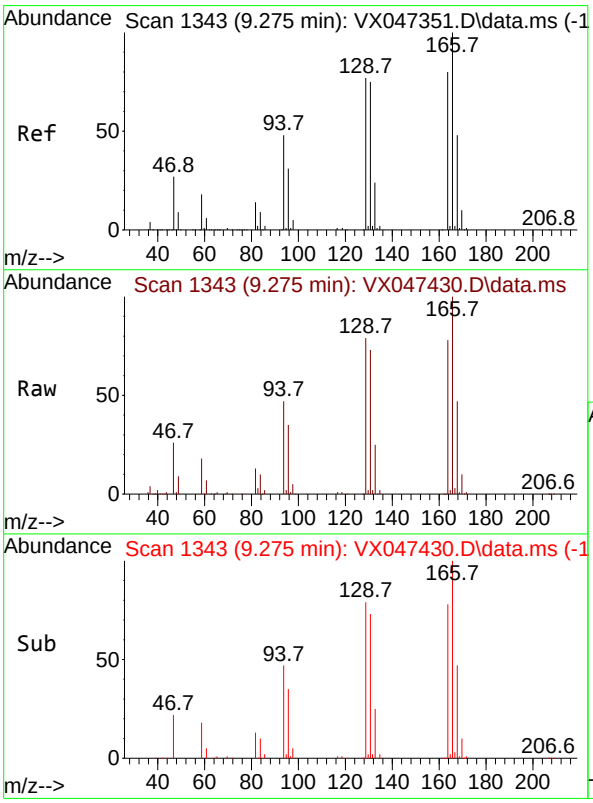
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:117 Resp: 368354

Ion	Ratio	Lower	Upper
117	100		
82	54.7	45.0	67.4
119	31.5	25.8	38.8

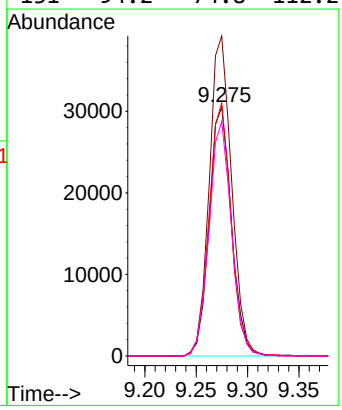


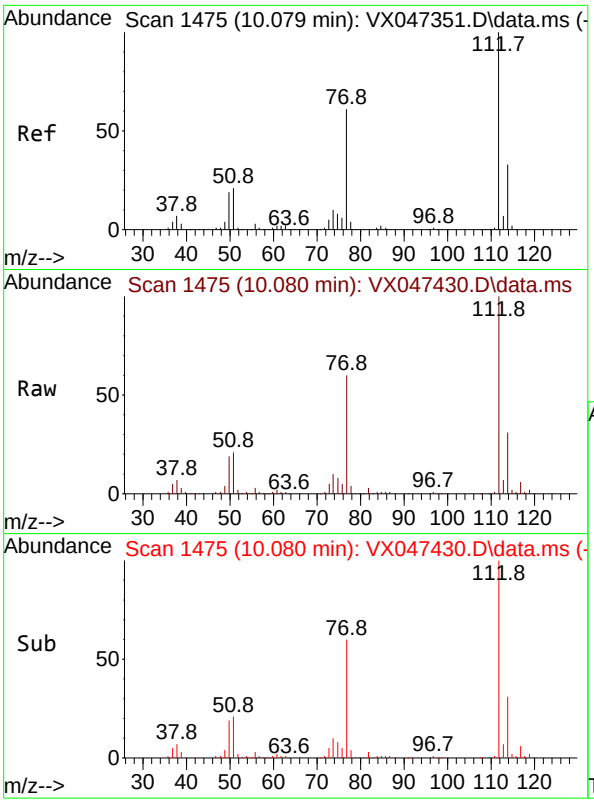


#64
Tetrachloroethene
Concen: 17.239 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:164 Resp: 45932

Ion	Ratio	Lower	Upper
164	100		
166	128.6	100.3	150.5
129	101.7	77.7	116.5
131	94.2	74.8	112.2



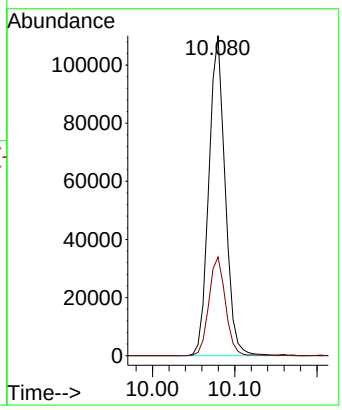


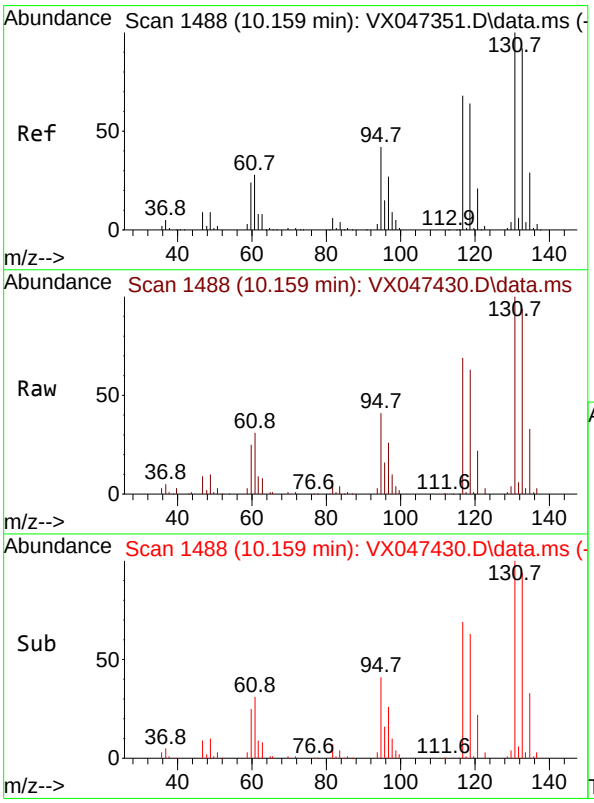
#65
Chlorobenzene
Concen: 17.336 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:112 Resp: 151755

Ion	Ratio	Lower	Upper
112	100		
114	30.9	26.4	39.6

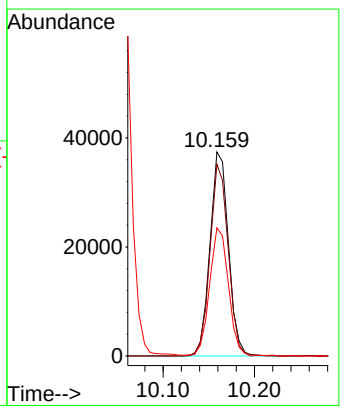


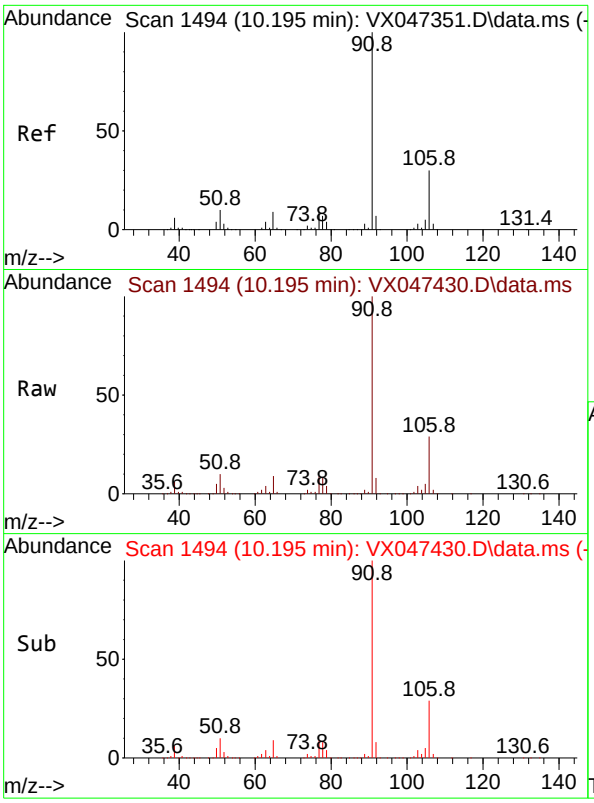


#66
1,1,1,2-Tetrachloroethane
Concen: 17.750 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:131 Resp: 52523

Ion	Ratio	Lower	Upper
131	100		
133	92.8	47.6	142.9
119	63.6	32.3	96.8



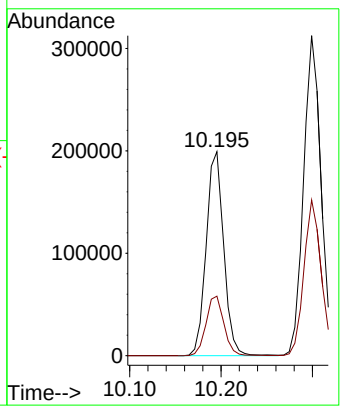


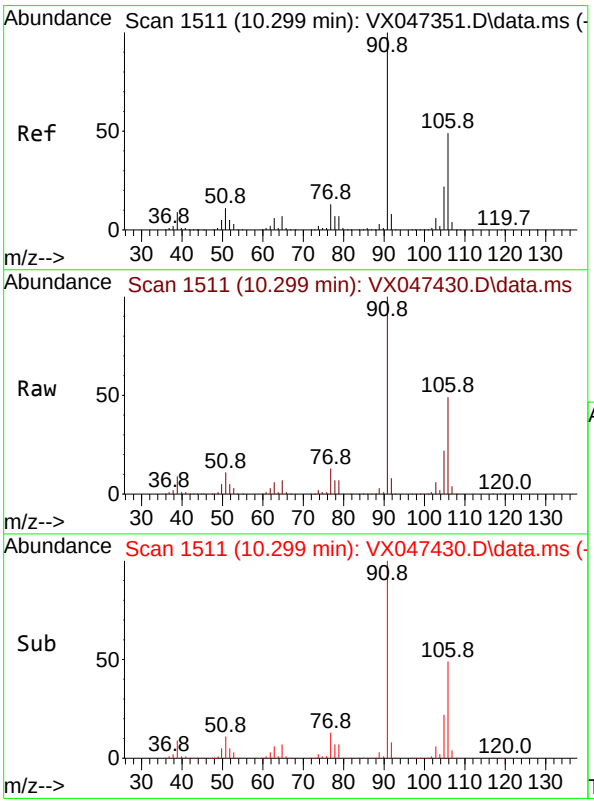
#67
Ethyl Benzene
Concen: 17.561 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 91 Resp: 264573

Ion	Ratio	Lower	Upper
91	100		
106	29.2	24.4	36.6

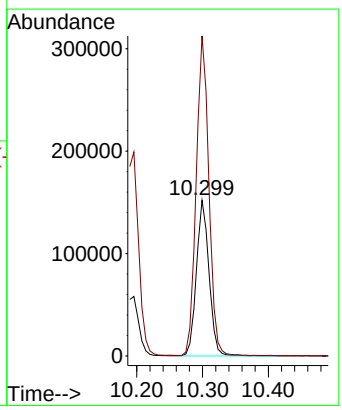


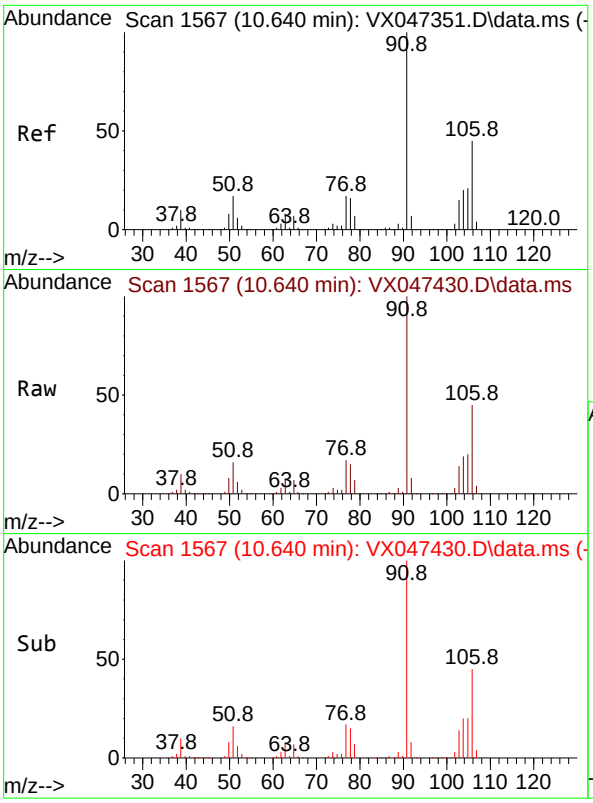


#68
m/p-Xylenes
Concen: 35.769 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:106 Resp: 200944

Ion	Ratio	Lower	Upper
106	100		
91	207.8	164.7	247.1



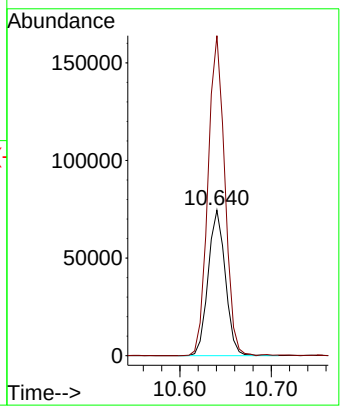


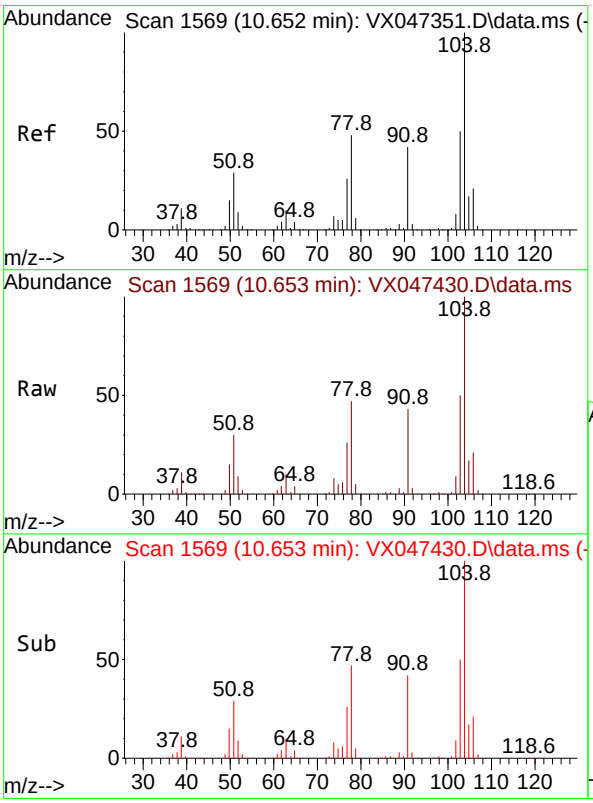
#69
o-Xylene
Concen: 17.943 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:106 Resp: 97003

Ion	Ratio	Lower	Upper
106	100		
91	215.2	110.6	331.8

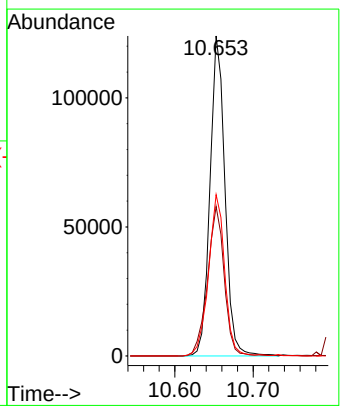


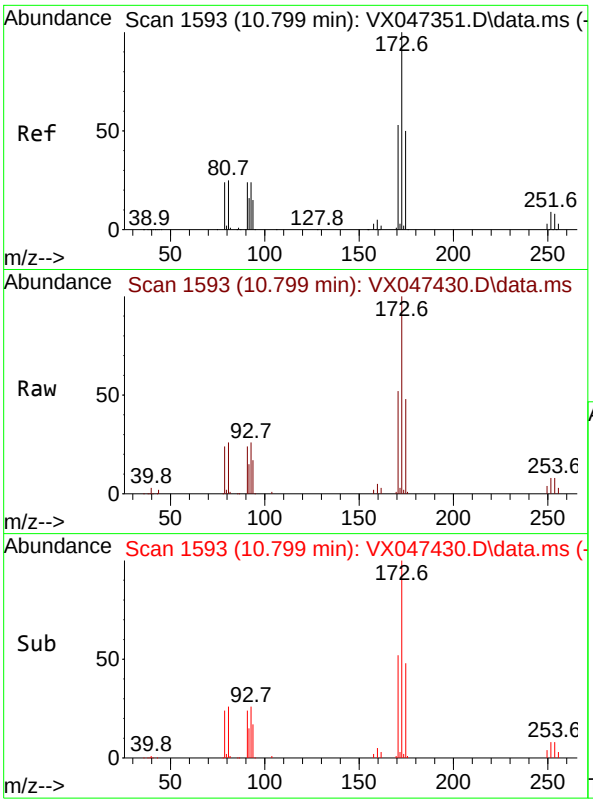


#70
Styrene
Concen: 17.991 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:104 Resp: 164340

Ion	Ratio	Lower	Upper
104	100		
78	52.4	41.8	62.8
103	54.8	43.6	65.4



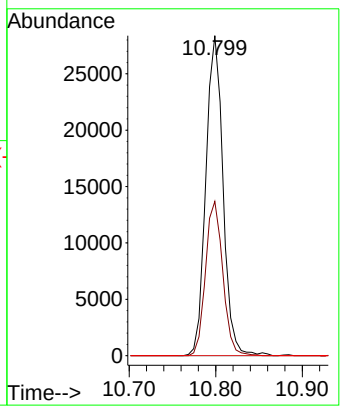


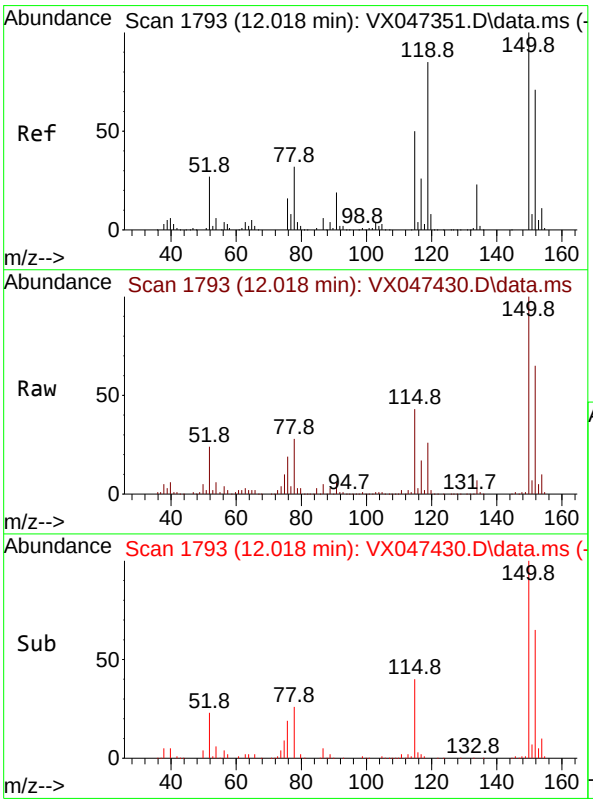
#71
Bromoform
Concen: 17.617 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:173 Resp: 39163

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.4	73.4
254	0.0	0.1	0.1#

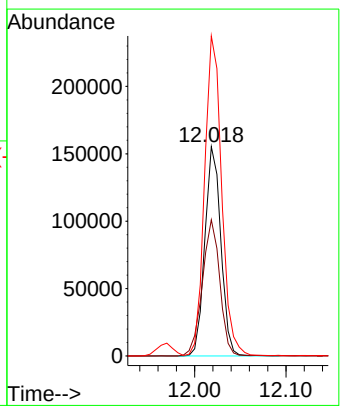


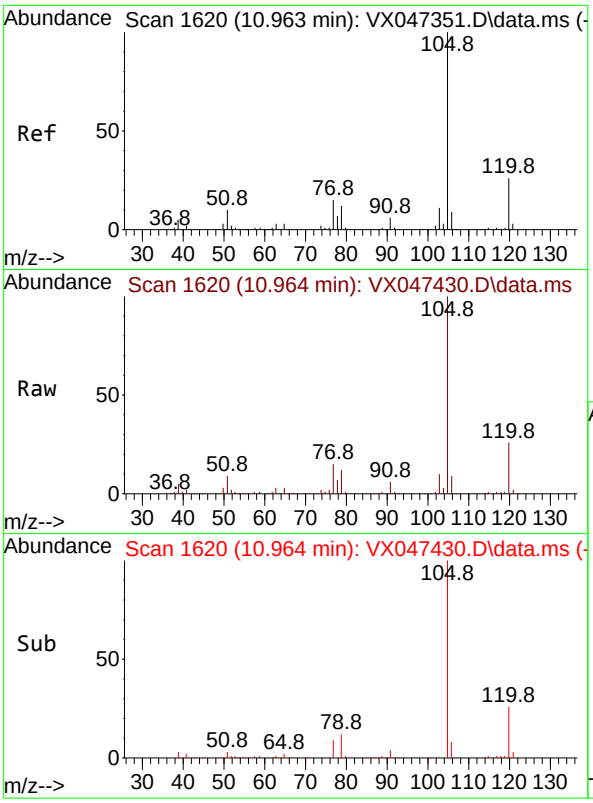


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:152 Resp: 188940

Ion	Ratio	Lower	Upper
152	100		
115	70.9	44.6	133.8
150	162.3	0.0	349.8



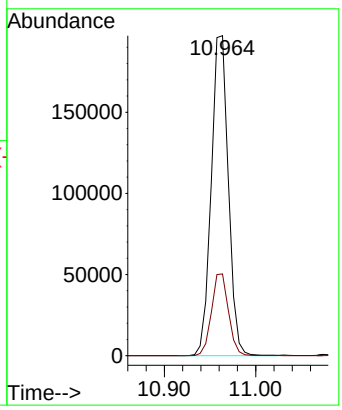


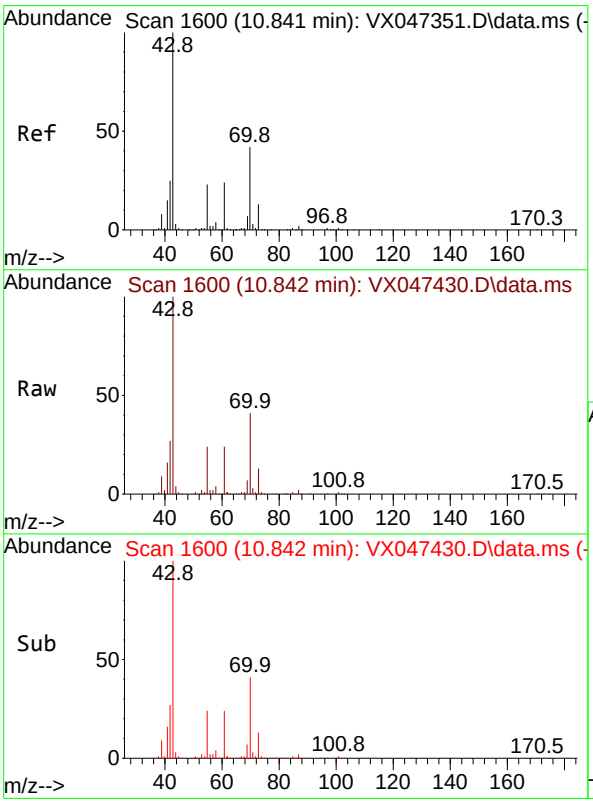
#73
Isopropylbenzene
Concen: 17.329 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:105 Resp: 256220

Ion	Ratio	Lower	Upper
105	100		
120	25.4	12.9	38.6

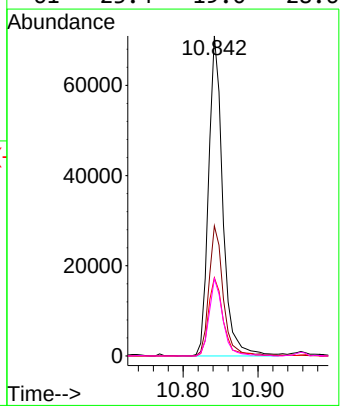


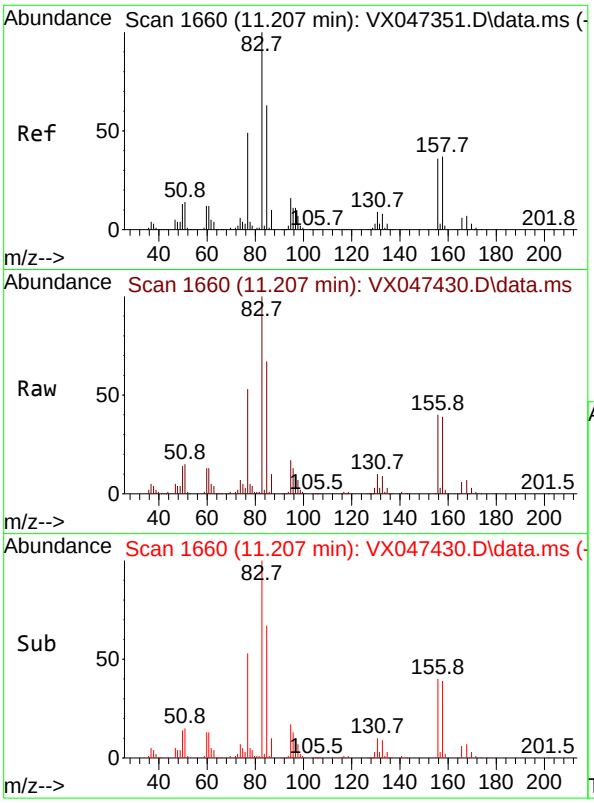


#74
N-amyl acetate
Concen: 16.697 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 43 Resp: 93750

Ion	Ratio	Lower	Upper
43	100		
70	41.0	33.1	49.7
55	25.3	19.0	28.6
61	23.4	19.0	28.6



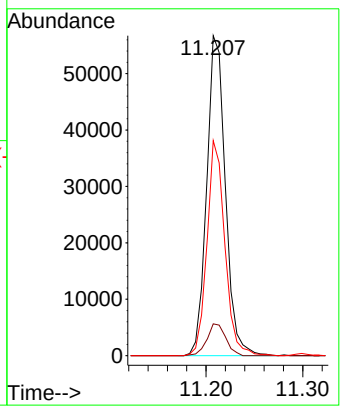


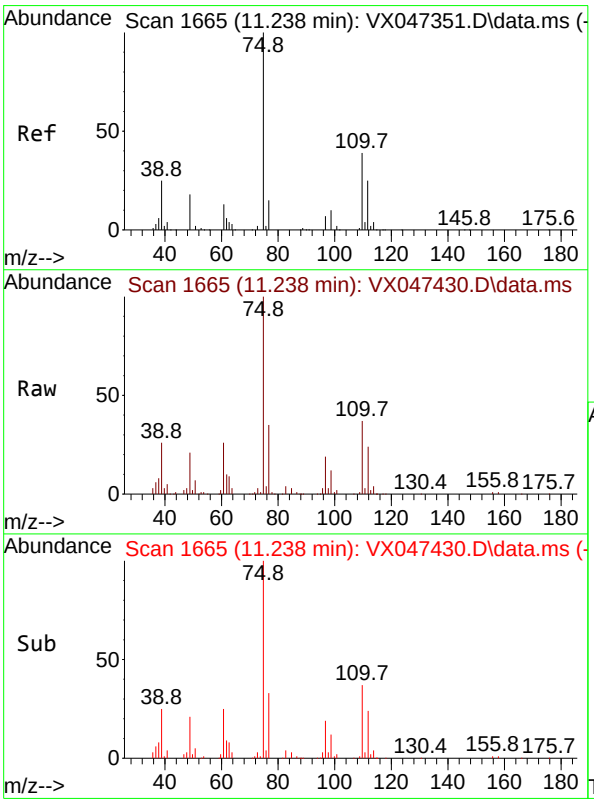
#75
1,1,2,2-Tetrachloroethane
Concen: 17.594 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 83 Resp: 76376

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	15.0
85	64.3	31.7	95.1

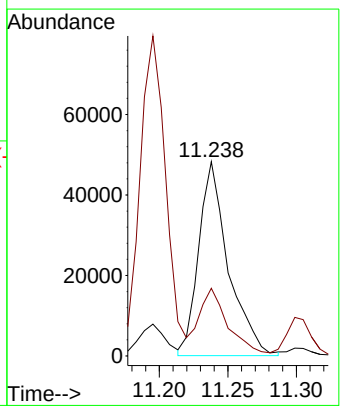


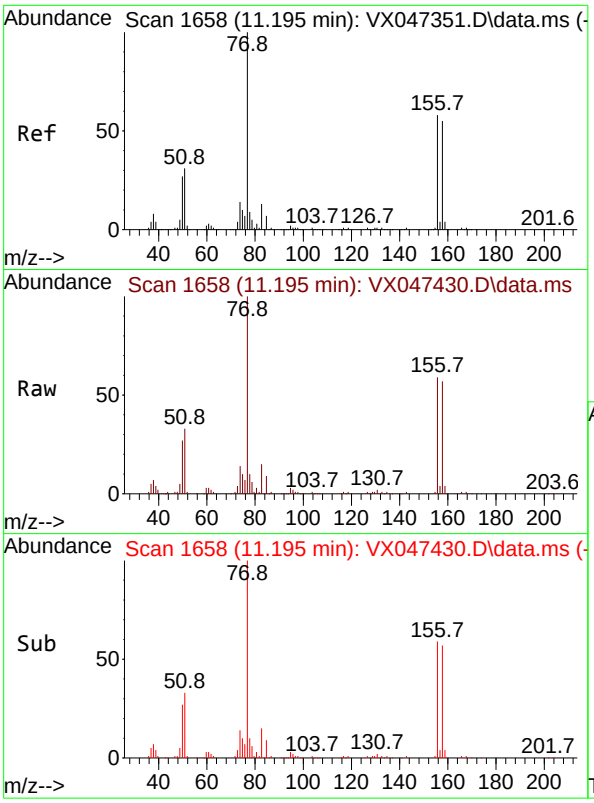


#76
1,2,3-Trichloropropane
Concen: 20.980 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 75 Resp: 72702

Ion	Ratio	Lower	Upper
75	100		
77	34.5	19.4	58.2



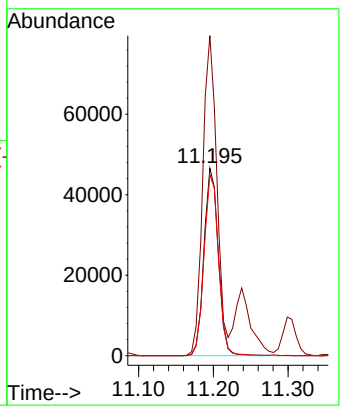


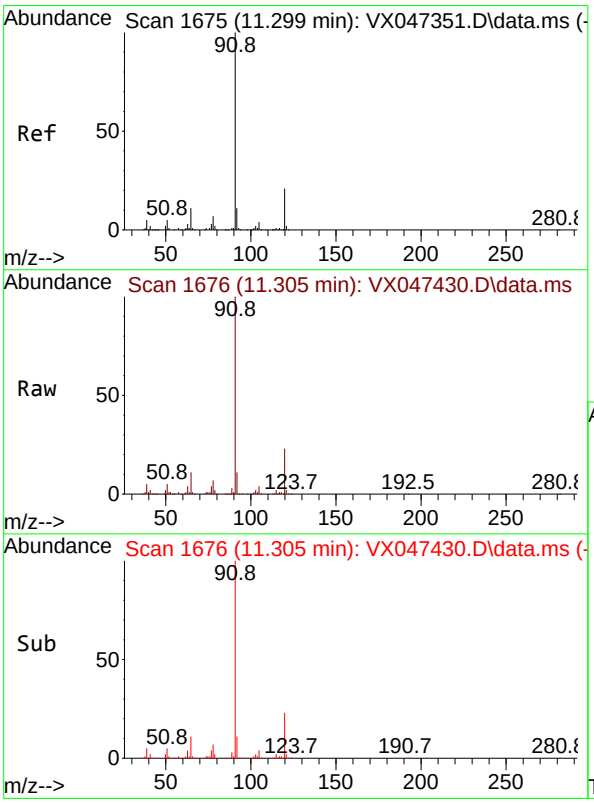
#77
Bromobenzene
Concen: 17.202 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:156 Resp: 62108

Ion	Ratio	Lower	Upper
156	100		
77	168.2	86.3	258.9
158	96.4	48.0	144.2

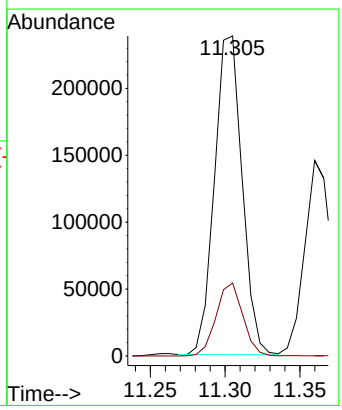


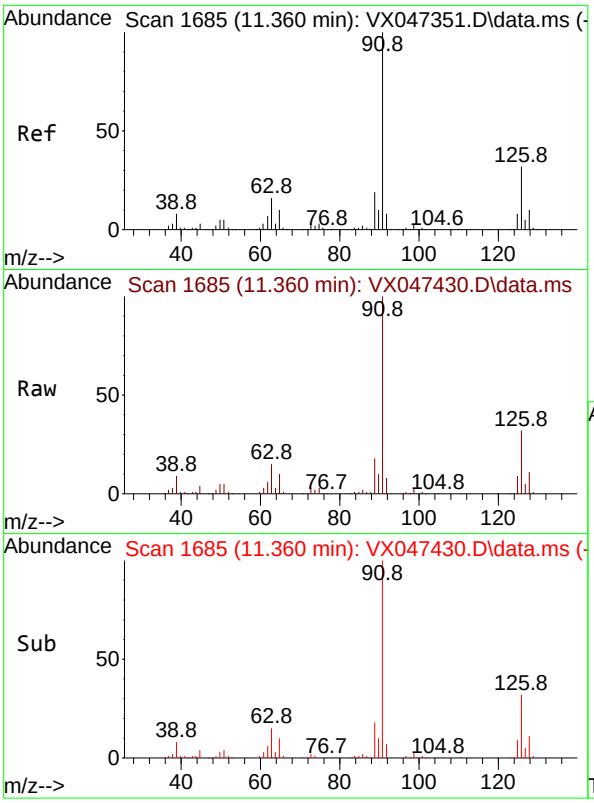


#78
n-propylbenzene
Concen: 17.321 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 91 Resp: 305865

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.0	33.0



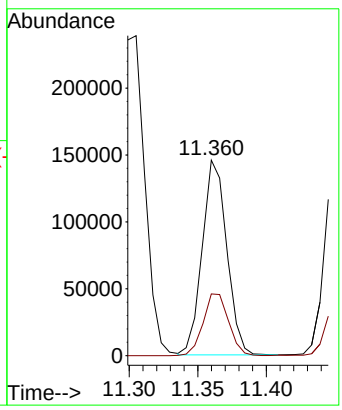


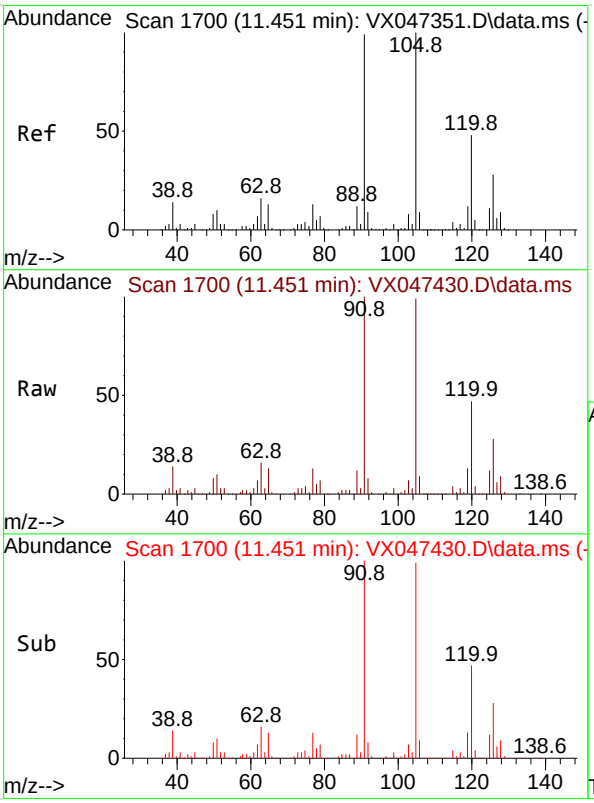
#79
2-Chlorotoluene
Concen: 17.021 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 91 Resp: 181694

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.7	50.1

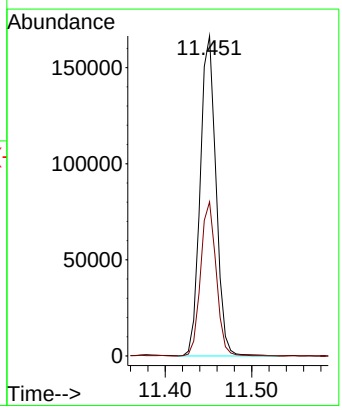


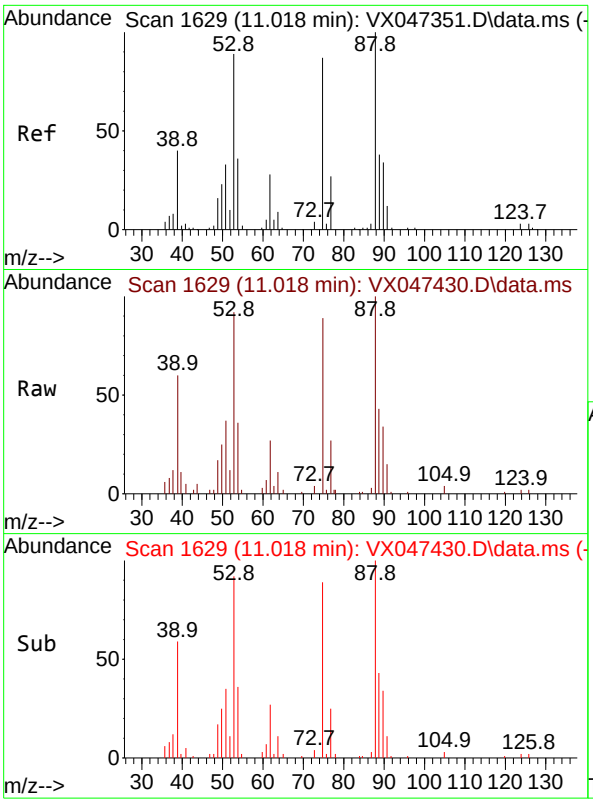


#80
1,3,5-Trimethylbenzene
Concen: 17.321 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:105 Resp: 210710

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.9	71.7



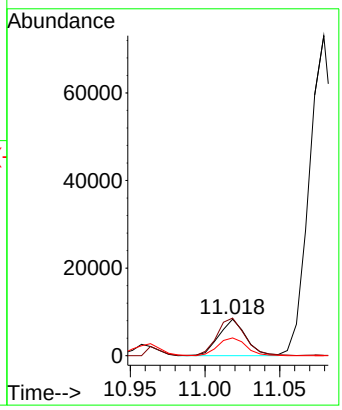


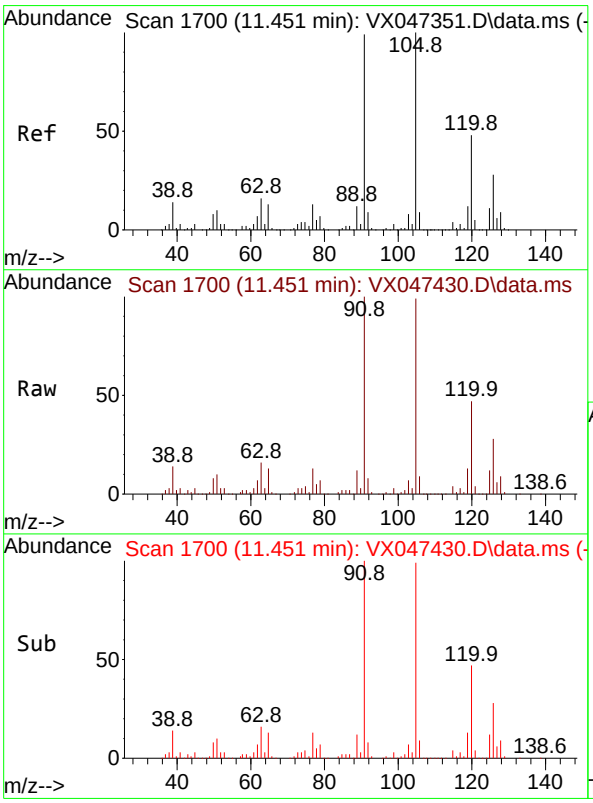
#81
trans-1,4-Dichloro-2-butene
Concen: 18.858 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 75 Resp: 10400

Ion	Ratio	Lower	Upper
75	100		
53	108.4	85.2	127.8
89	51.0	36.7	55.1

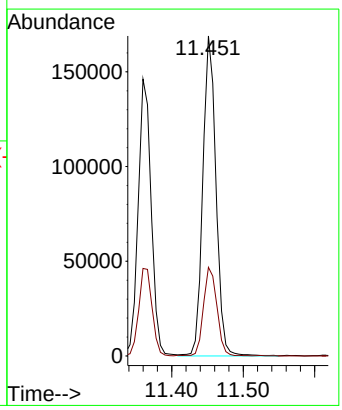


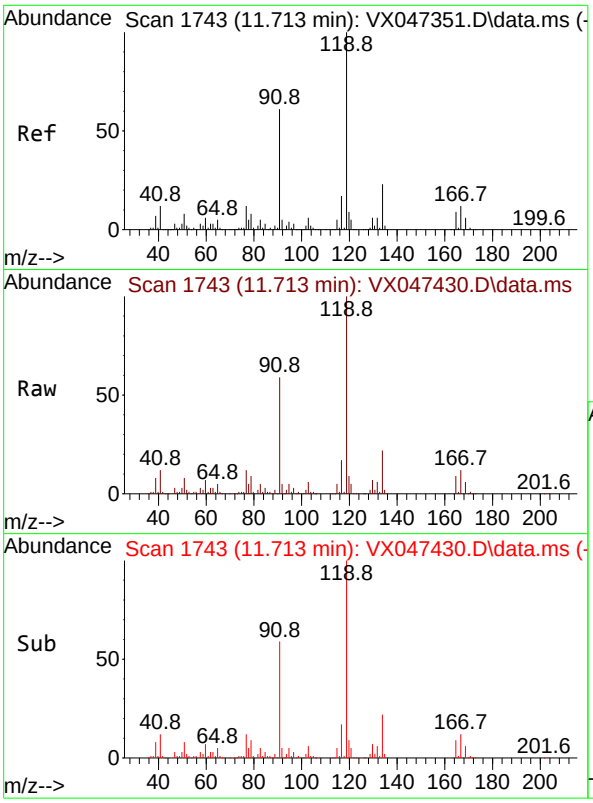


#82
4-Chlorotoluene
Concen: 17.207 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 91 Resp: 216515

Ion	Ratio	Lower	Upper
91	100		
126	28.1	14.4	43.0



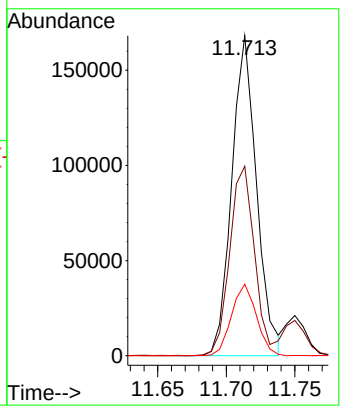


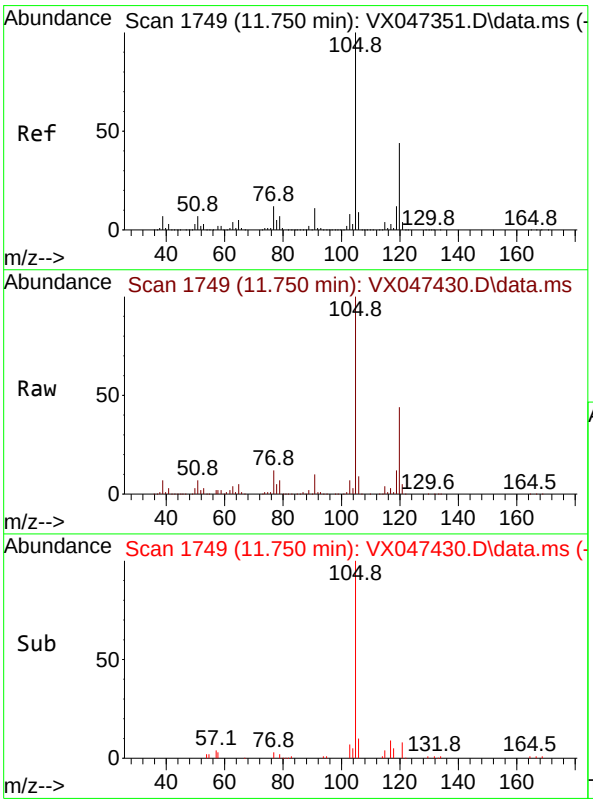
#83
tert-Butylbenzene
Concen: 17.442 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:119 Resp: 211697

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.1	87.4
134	22.5	11.3	33.9

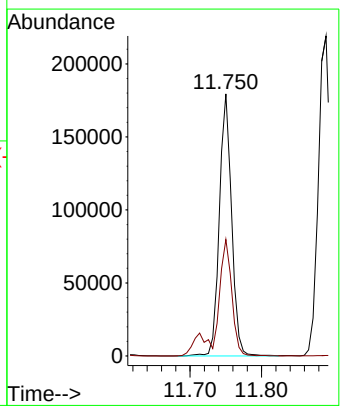


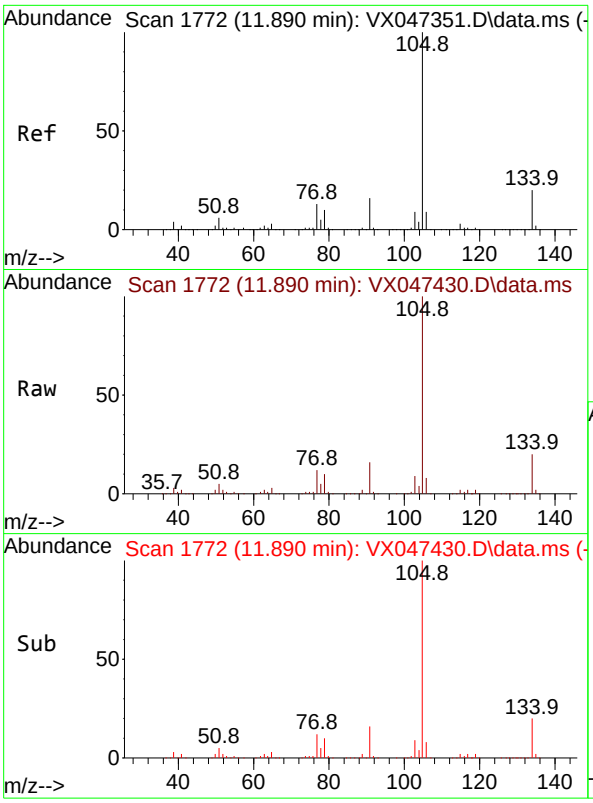


#84
1,2,4-Trimethylbenzene
Concen: 17.547 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:105 Resp: 213463

Ion	Ratio	Lower	Upper
105	100		
120	43.0	21.9	65.7



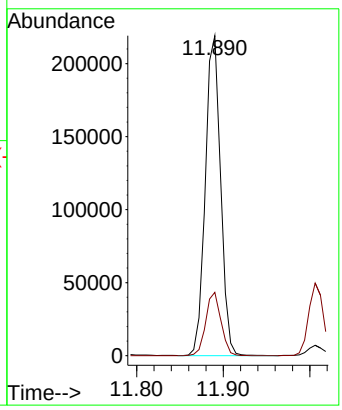


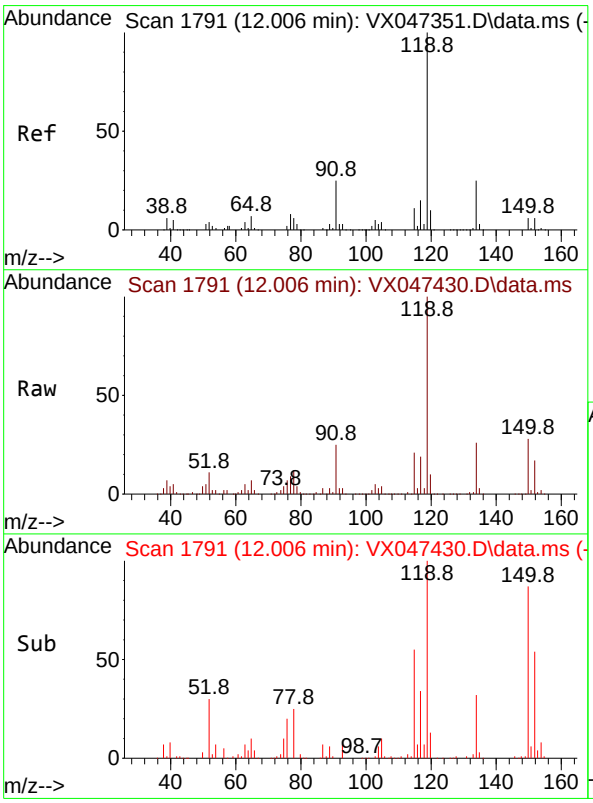
#85
sec-Butylbenzene
Concen: 17.860 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:105 Resp: 268675

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

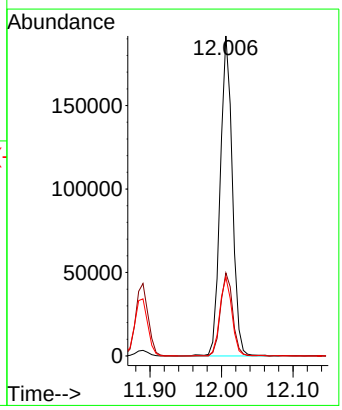


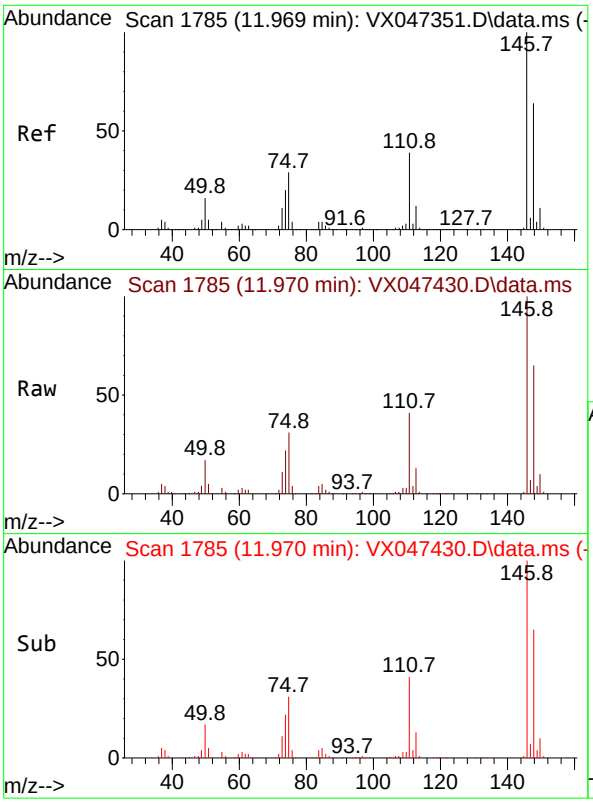


#86
p-Isopropyltoluene
Concen: 17.692 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:119 Resp: 225219

Ion	Ratio	Lower	Upper
119	100		
134	26.3	12.8	38.4
91	24.6	12.4	37.4



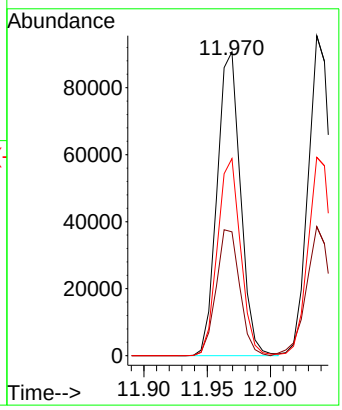


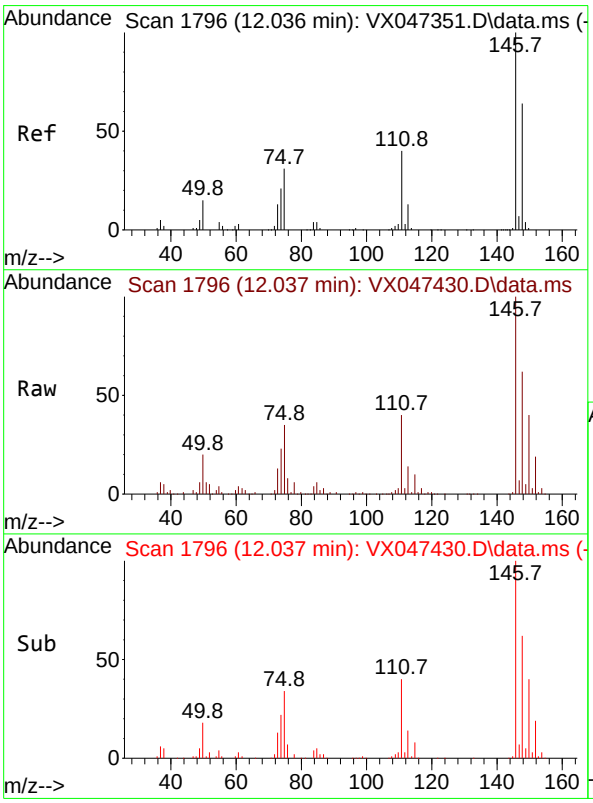
#87
1,3-Dichlorobenzene
Concen: 16.881 ug/l
RT: 11.970 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:146 Resp: 116436

Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.6	61.8
148	64.4	31.9	95.5

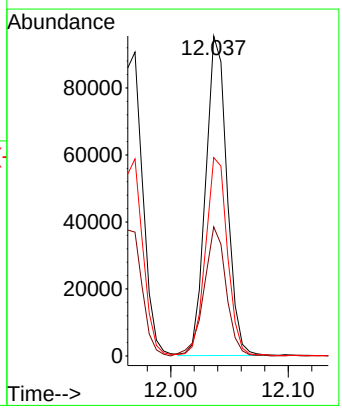


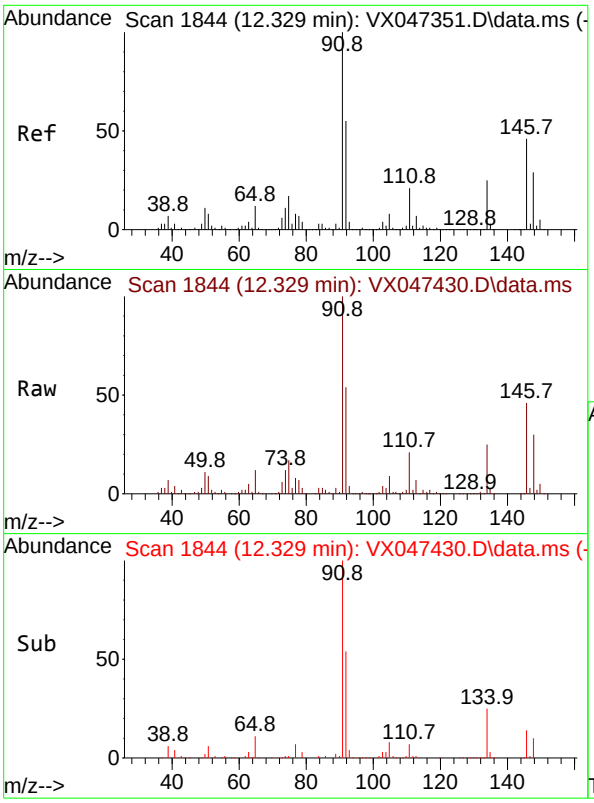


#88
1,4-Dichlorobenzene
Concen: 16.951 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:146 Resp: 120251

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.4	61.2
148	63.8	31.7	95.1



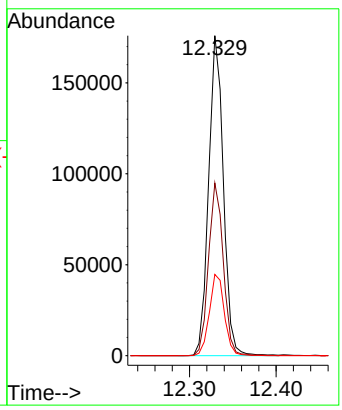


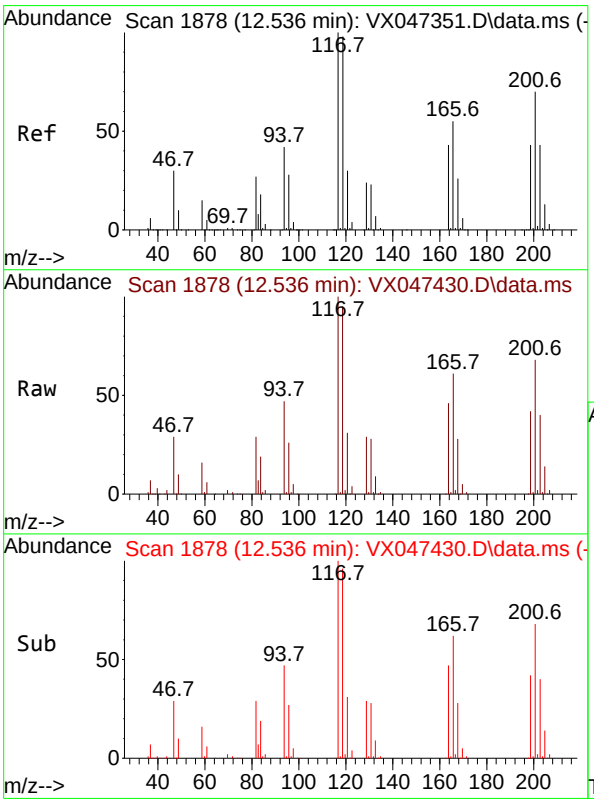
#89
n-Butylbenzene
Concen: 17.569 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion: 91 Resp: 208015

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.2	81.5
134	26.0	12.6	37.8

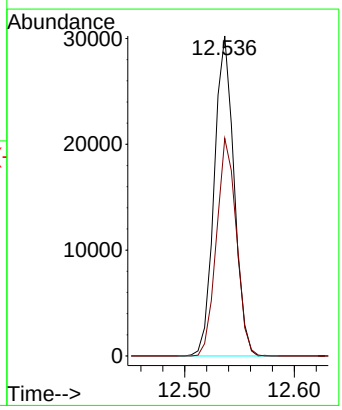


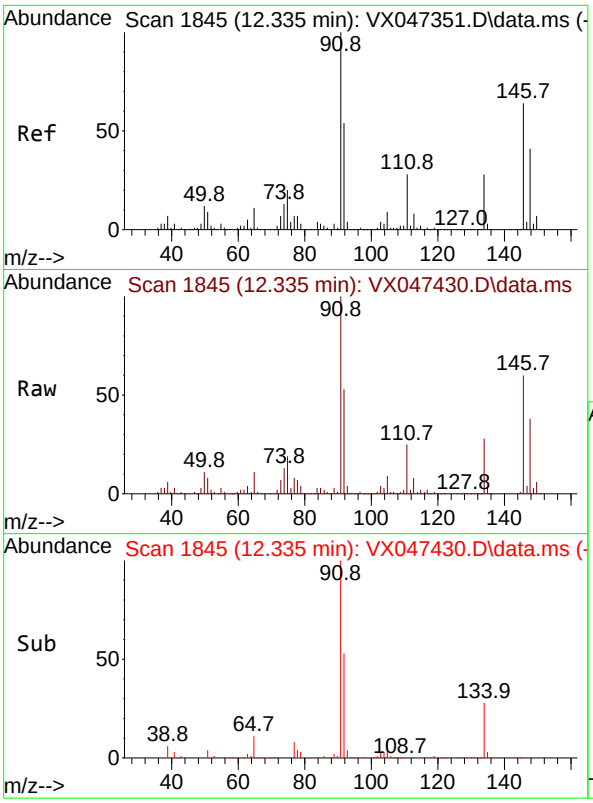


#90
Hexachloroethane
Concen: 16.972 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:117 Resp: 37901

Ion	Ratio	Lower	Upper
117	100		
201	68.5	35.1	105.3



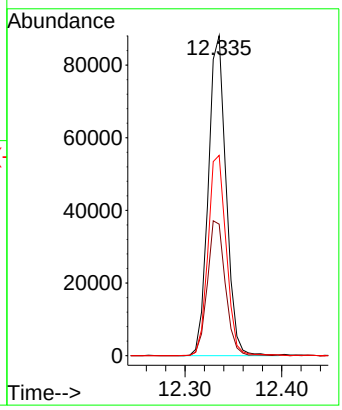


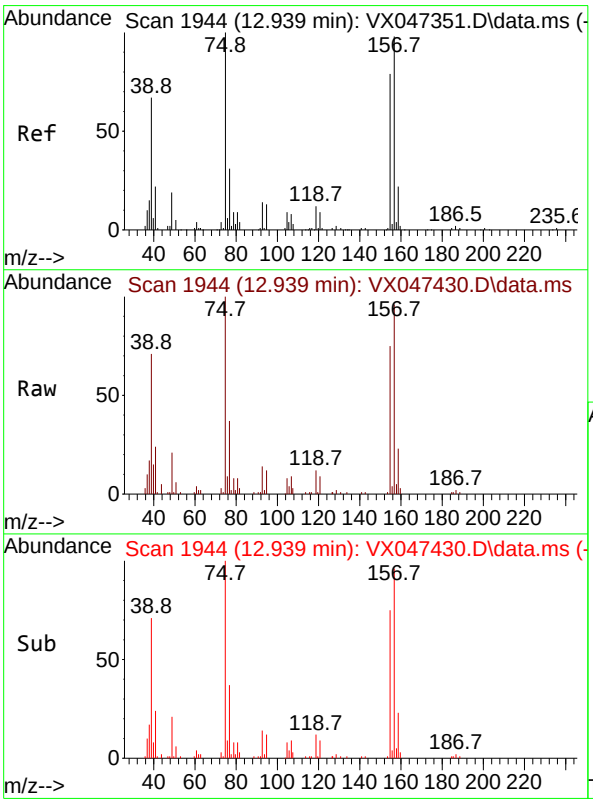
#91
1,2-Dichlorobenzene
Concen: 17.205 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:146 Resp: 112636

Ion	Ratio	Lower	Upper
146	100		
111	42.7	22.1	66.1
148	64.2	31.9	95.5

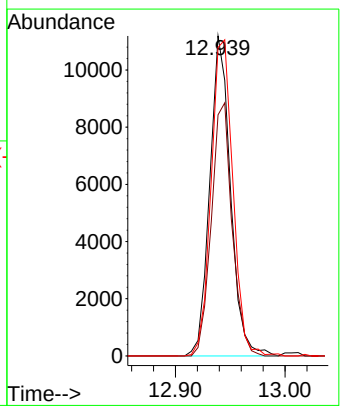


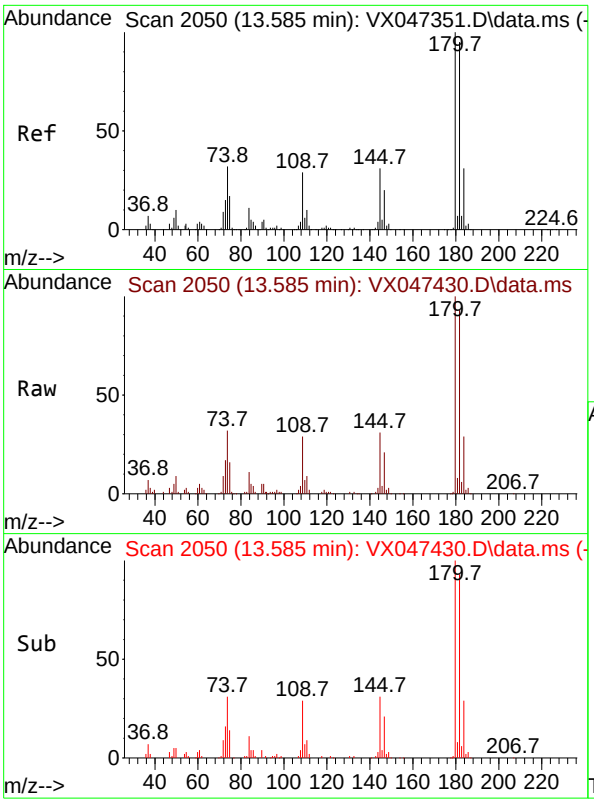


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.516 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion: 75 Resp: 14705

Ion	Ratio	Lower	Upper
75	100		
155	79.6	41.3	123.7
157	104.1	51.5	154.5



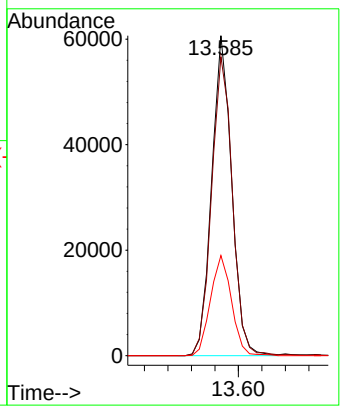


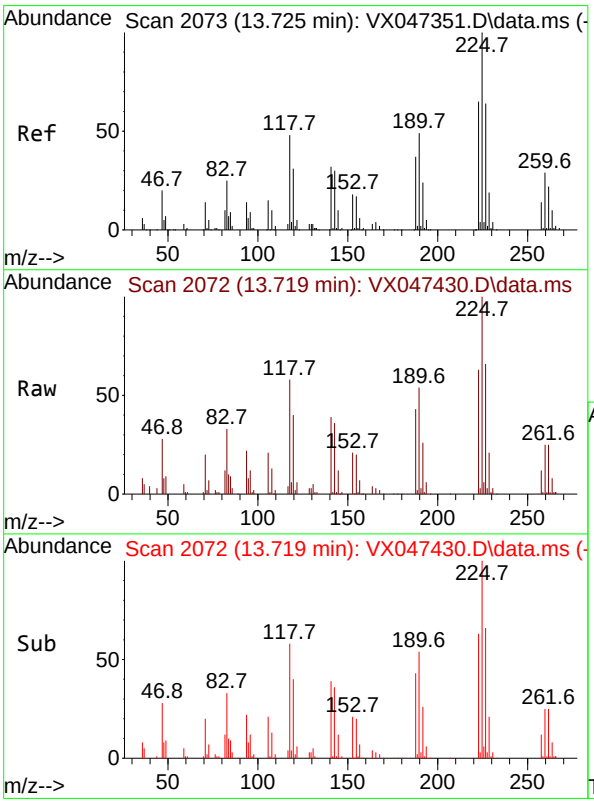
#93
1,2,4-Trichlorobenzene
Concen: 16.333 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:180 Resp: 71685

Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.1	144.4
145	32.8	16.2	48.5

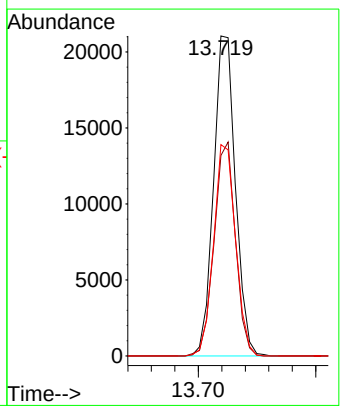


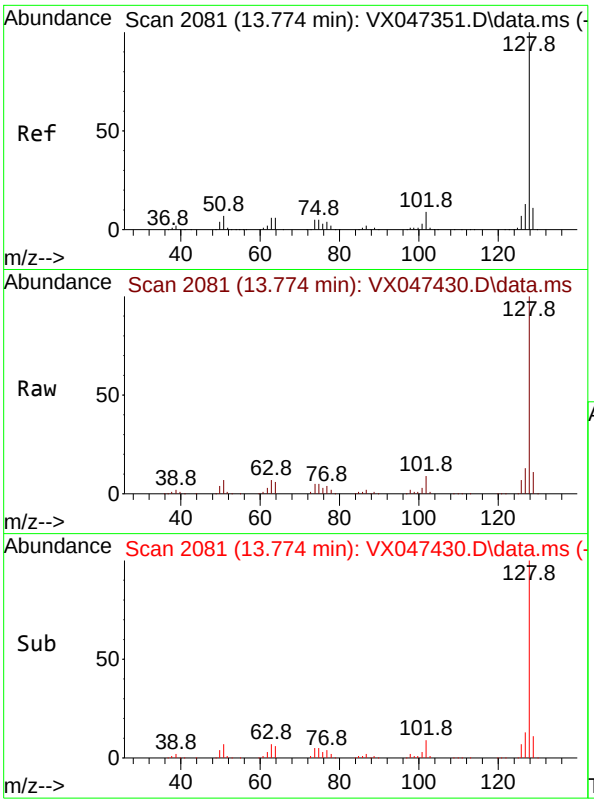


#94
Hexachlorobutadiene
Concen: 17.442 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:225 Resp: 27248

Ion	Ratio	Lower	Upper
225	100		
223	65.0	32.2	96.6
227	66.2	31.6	95.0



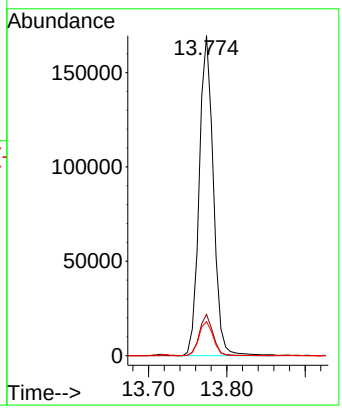


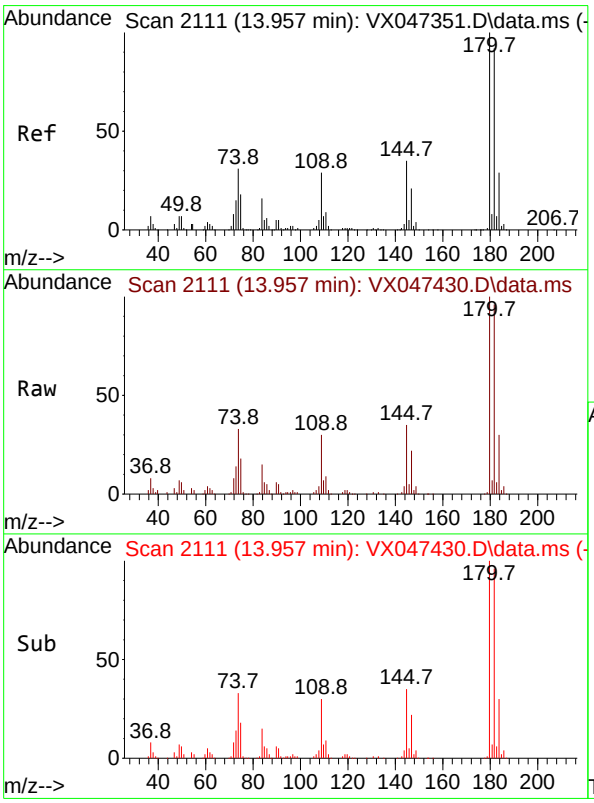
#95
Naphthalene
Concen: 16.959 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VX0820WBS01

Tgt Ion:128 Resp: 212701

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.1	15.1
129	10.9	8.7	13.1

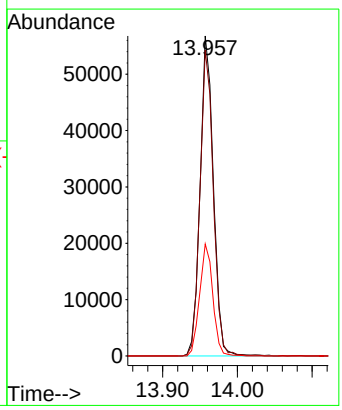




#96
1,2,3-Trichlorobenzene
Concen: 16.938 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047430.D
Acq: 20 Aug 2025 10:35

Tgt Ion:180 Resp: 70071

Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.2
145	34.8	17.4	52.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 21 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	219510	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	397450	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	362824	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	178130	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	169837	55.283	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 110.560%			
35) Dibromofluoromethane	5.403	113	130938	50.761	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.520%			
50) Toluene-d8	8.653	98	453029	49.137	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.280%			
62) 4-Bromofluorobenzene	11.079	95	174471	51.281	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	124163	44.372	ug/l	99
3) Chloromethane	1.312	50	118789	47.189	ug/l	100
4) Vinyl Chloride	1.392	62	146404	46.337	ug/l	99
5) Bromomethane	1.623	94	44398	34.789	ug/l	98
6) Chloroethane	1.703	64	92359	47.777	ug/l	100
7) Trichlorofluoromethane	1.904	101	210004	44.935	ug/l	98
8) Diethyl Ether	2.148	74	86525	52.580	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	122337	45.126	ug/l	99
10) Methyl Iodide	2.471	142	128119	27.577	ug/l	98
11) Tert butyl alcohol	2.965	59	90515	338.682	ug/l	99
12) 1,1-Dichloroethene	2.337	96	129789	46.960	ug/l	99
13) Acrolein	2.251	56	165995	294.230	ug/l	99
14) Allyl chloride	2.684	41	238562	49.697	ug/l	98
15) Acrylonitrile	3.086	53	371314	287.522	ug/l	100
16) Acetone	2.391	43	297957	258.028	ug/l	100
17) Carbon Disulfide	2.532	76	351042	42.091	ug/l	100
18) Methyl Acetate	2.715	43	188724	63.067	ug/l	99
19) Methyl tert-butyl Ether	3.129	73	460381	54.755	ug/l	98
20) Methylene Chloride	2.806	84	154803	50.626	ug/l	99
21) trans-1,2-Dichloroethene	3.111	96	141639	48.285	ug/l	97
22) Diisopropyl ether	3.775	45	514249	54.195	ug/l	95
23) Vinyl Acetate	3.739	43	2139175	275.048	ug/l	100
24) 1,1-Dichloroethane	3.623	63	271347	50.593	ug/l	97
25) 2-Butanone	4.574	43	465244	307.630	ug/l	99
26) 2,2-Dichloropropane	4.489	77	168046	41.513	ug/l	100
27) cis-1,2-Dichloroethene	4.507	96	173414	50.756	ug/l	98
28) Bromochloromethane	4.915	49	130876	58.641	ug/l	100
29) Tetrahydrofuran	5.025	42	289688	296.359	ug/l	100
30) Chloroform	5.111	83	277931	50.776	ug/l	96
31) Cyclohexane	5.488	56	219086	44.313	ug/l	99
32) 1,1,1-Trichloroethane	5.397	97	226085	47.987	ug/l	99
36) 1,1-Dichloropropene	5.708	75	183283	45.011	ug/l	99
37) Ethyl Acetate	4.733	43	210658	49.833	ug/l	99
38) Carbon Tetrachloride	5.690	117	190198	42.744	ug/l	99
39) Methylcyclohexane	7.391	83	204976	40.357	ug/l	97
40) Benzene	6.049	78	575192	47.193	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 21 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.940	41	95846	53.767	ug/l		98
42) 1,2-Dichloroethane	6.098	62	211130	48.905	ug/l		100
43) Isopropyl Acetate	6.348	43	329536	54.264	ug/l		99
44) Trichloroethene	7.135	130	141897	45.468	ug/l		99
45) 1,2-Dichloropropane	7.439	63	149101	48.832	ug/l		99
46) Dibromomethane	7.586	93	108227	48.823	ug/l		98
47) Bromodichloromethane	7.830	83	219351	47.732	ug/l		96
48) Methyl methacrylate	7.695	41	167405	53.107	ug/l		99
49) 1,4-Dioxane	7.683	88	37678	1229.562	ug/l		97
51) 4-Methyl-2-Pentanone	8.573	43	972174	278.187	ug/l		98
52) Toluene	8.720	92	354651	47.090	ug/l		99
53) t-1,3-Dichloropropene	8.982	75	198566	49.509	ug/l		98
54) cis-1,3-Dichloropropene	8.372	75	219408	48.331	ug/l		98
55) 1,1,2-Trichloroethane	9.152	97	142557	49.854	ug/l		98
56) Ethyl methacrylate	9.116	69	227071	53.861	ug/l		99
57) 1,3-Dichloropropane	9.311	76	242512	49.771	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	517470	256.814	ug/l		99
59) 2-Hexanone	9.433	43	664708	274.974	ug/l		99
60) Dibromochloromethane	9.518	129	163031	47.975	ug/l		99
61) 1,2-Dibromoethane	9.610	107	145018	49.181	ug/l		99
64) Tetrachloroethene	9.274	164	114609	43.671	ug/l		98
65) Chlorobenzene	10.079	112	395517	45.872	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.164	131	134787	46.245	ug/l		100
67) Ethyl Benzene	10.195	91	682262	45.975	ug/l		99
68) m/p-Xylenes	10.299	106	505624	91.376	ug/l		98
69) o-Xylene	10.640	106	248628	46.690	ug/l		100
70) Styrene	10.652	104	435716	48.426	ug/l		100
71) Bromoform	10.799	173	105843	48.338	ug/l	#	99
73) Isopropylbenzene	10.963	105	635537	45.592	ug/l		99
74) N-amyl acetate	10.841	43	274391	51.837	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	204727	50.022	ug/l		99
76) 1,2,3-Trichloropropane	11.237	75	195580	59.863	ug/l		89
77) Bromobenzene	11.195	156	158725	46.630	ug/l		99
78) n-propylbenzene	11.305	91	748109	44.937	ug/l		99
79) 2-Chlorotoluene	11.359	91	458958	45.604	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	524391	45.721	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	27349	38.529	ug/l		96
82) 4-Chlorotoluene	11.451	91	536951	45.262	ug/l		100
83) tert-Butylbenzene	11.713	119	524851	45.868	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	533947	46.554	ug/l		99
85) sec-Butylbenzene	11.890	105	636533	44.881	ug/l		100
86) p-Isopropyltoluene	12.006	119	533633	44.464	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	292853	45.035	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	292001	43.659	ug/l		99
89) n-Butylbenzene	12.329	91	484331	43.388	ug/l		99
90) Hexachloroethane	12.536	117	90925	43.186	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	285344	46.230	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	40467	51.127	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	183154	44.264	ug/l		99
94) Hexachlorobutadiene	13.719	225	54992	37.337	ug/l		97
95) Naphthalene	13.774	128	685477	57.969	ug/l		100
96) 1,2,3-Trichlorobenzene	13.956	180	176999	45.381	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 21 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

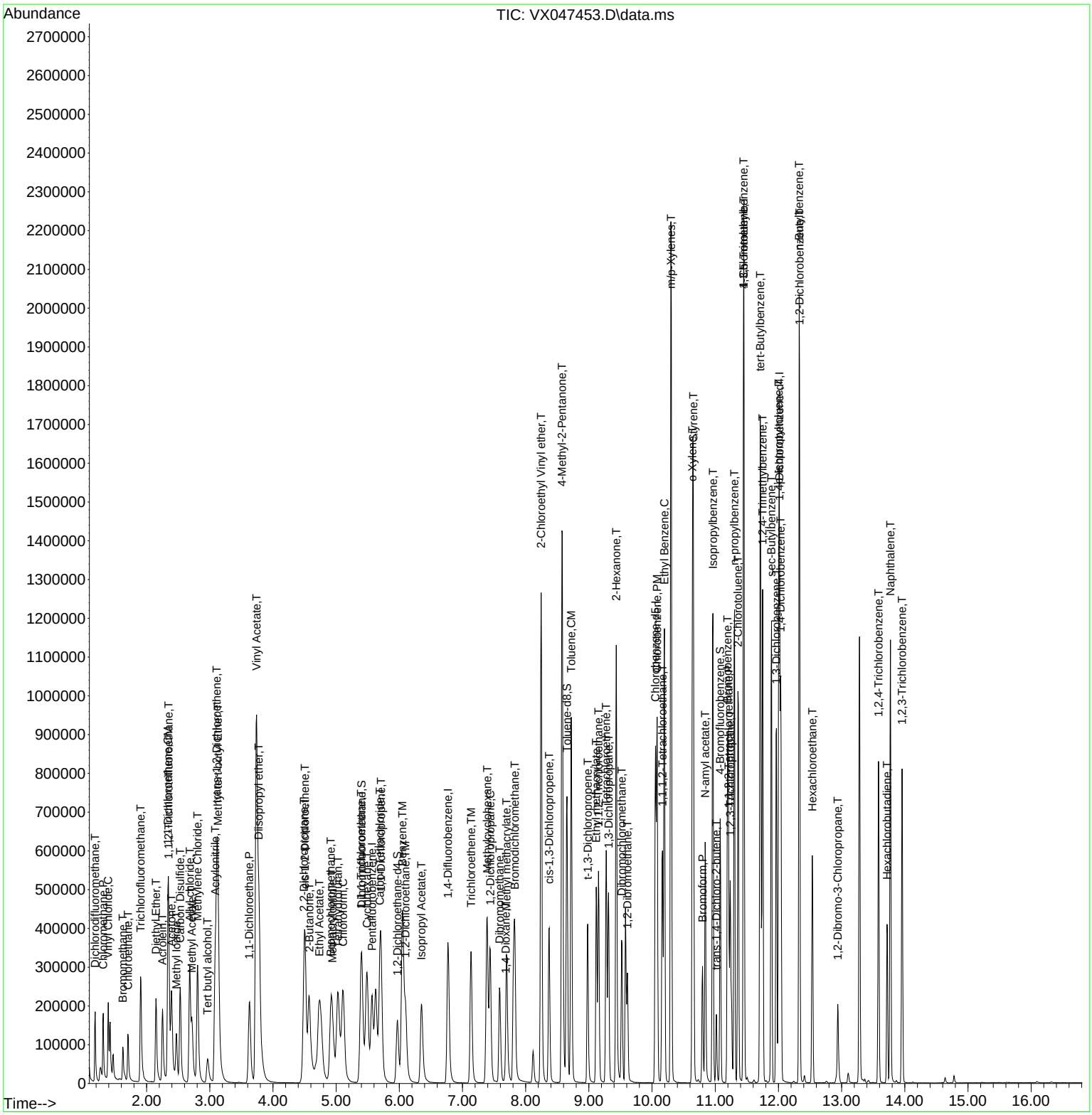
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

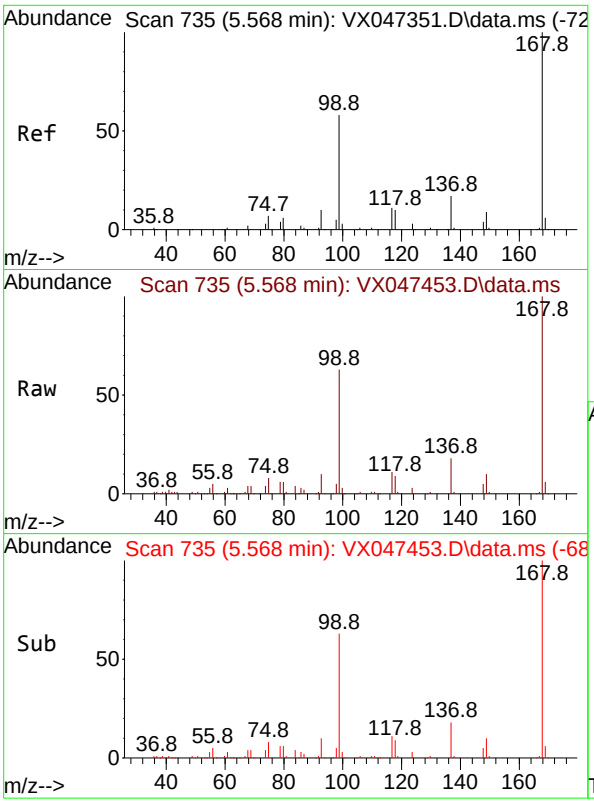
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
Data File : VX047453.D
Acq On : 20 Aug 2025 19:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 21 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



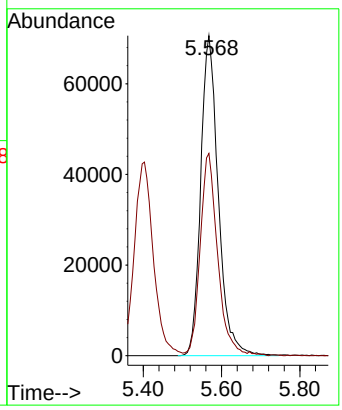


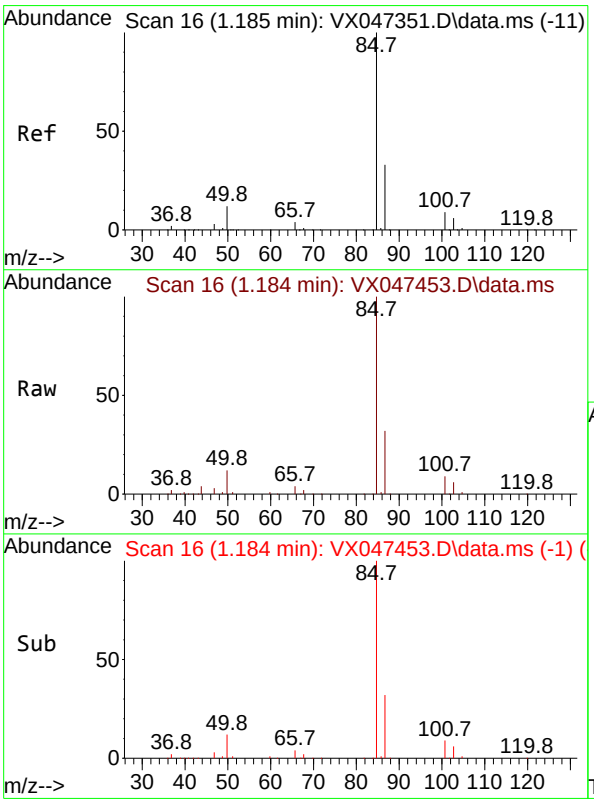
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 219510

Ion	Ratio	Lower	Upper
168	100		
99	63.0	47.9	71.9

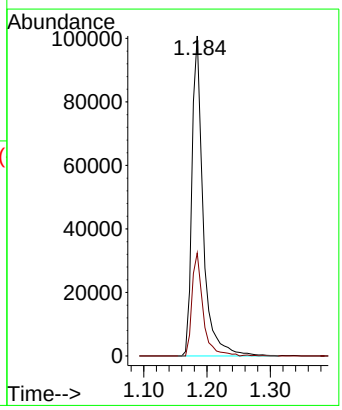


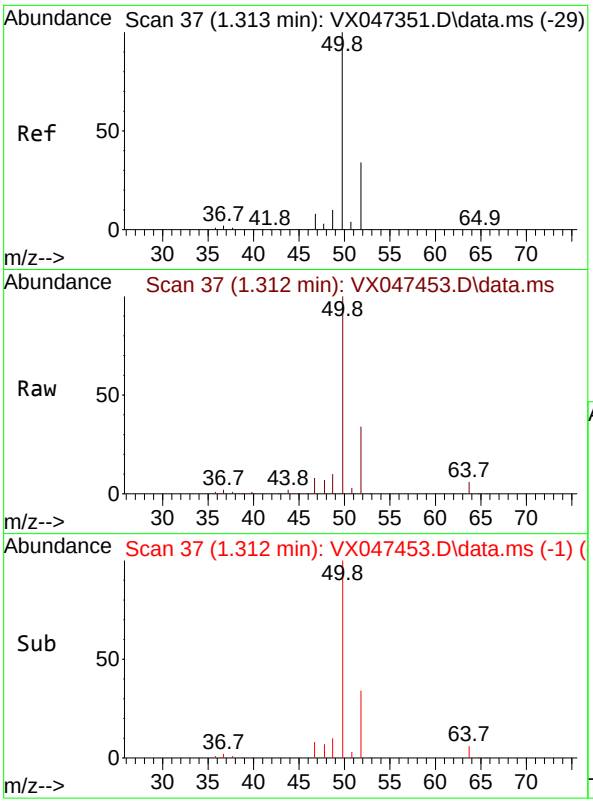


#2
Dichlorodifluoromethane
Concen: 44.372 ug/l
RT: 1.184 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 85 Resp: 124163

Ion	Ratio	Lower	Upper
85	100		
87	32.2	16.4	49.1



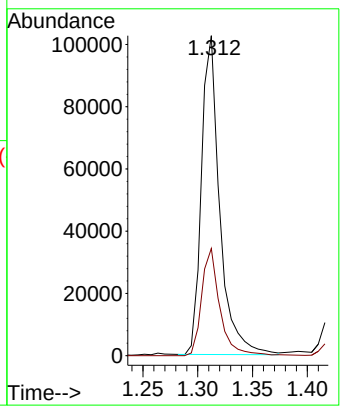


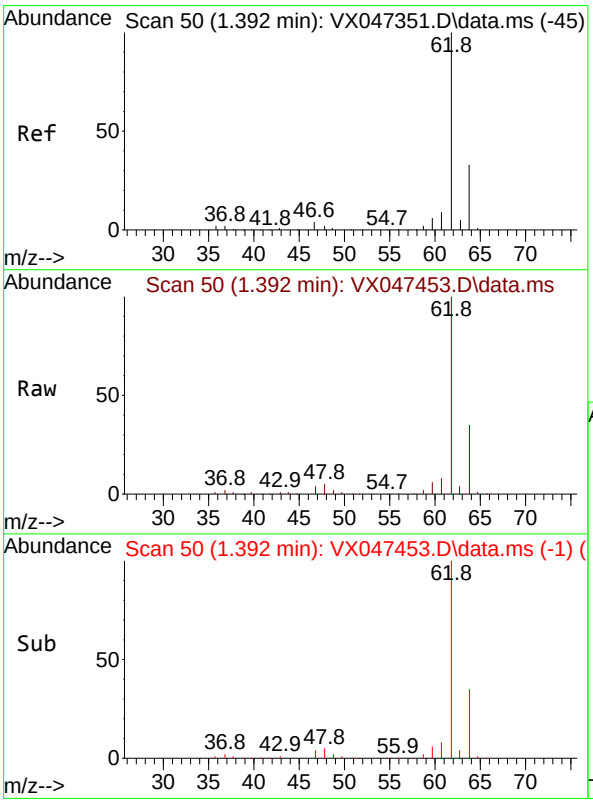
#3
Chloromethane
Concen: 47.189 ug/l
RT: 1.312 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 118789

Ion	Ratio	Lower	Upper
50	100		
52	33.7	27.0	40.4

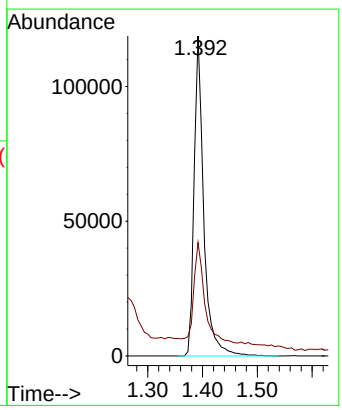


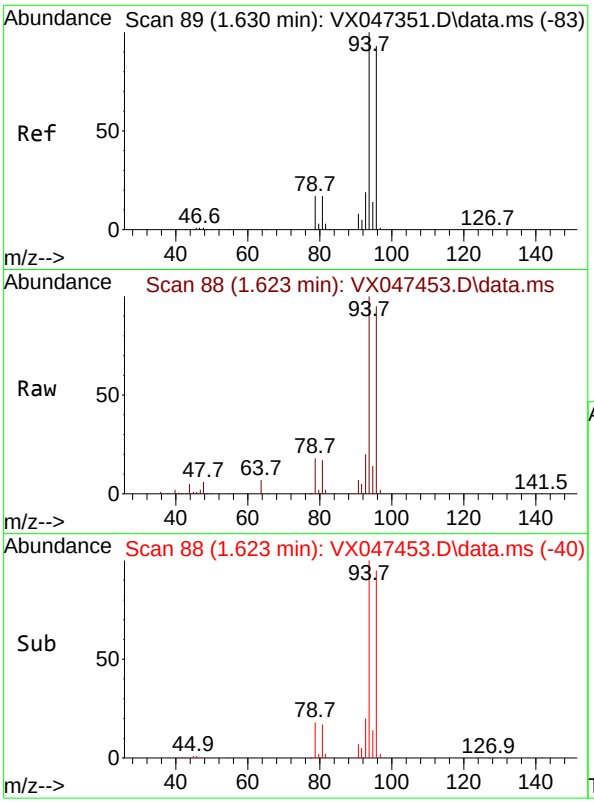


#4
Vinyl Chloride
Concen: 46.337 ug/l
RT: 1.392 min Scan# 50
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 62 Resp: 146404

Ion	Ratio	Lower	Upper
62	100		
64	32.3	26.5	39.7



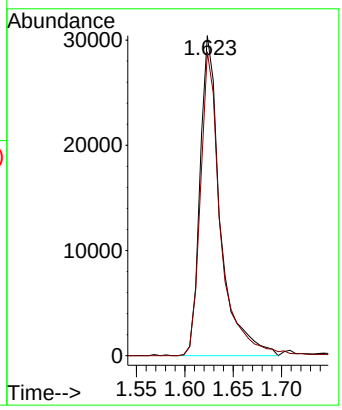


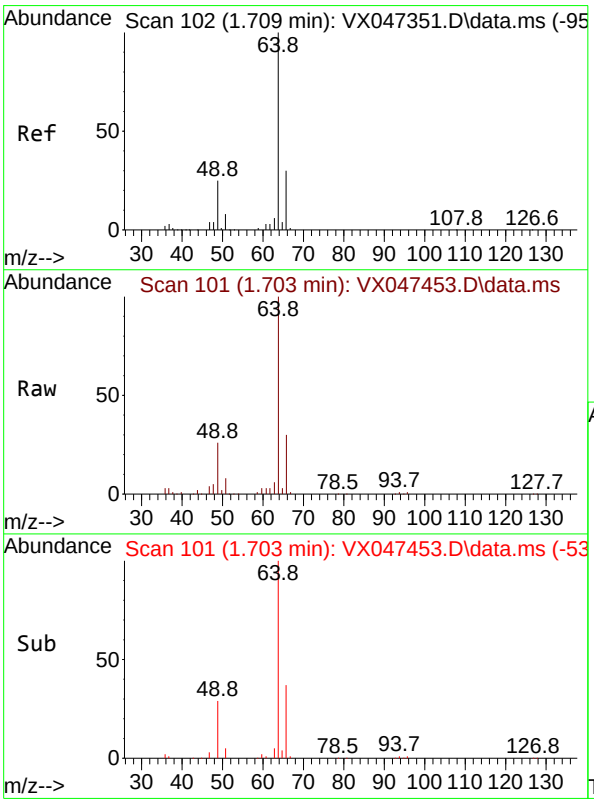
#5
Bromomethane
Concen: 34.789 ug/l
RT: 1.623 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 44398

Ion	Ratio	Lower	Upper
94	100		
96	95.0	74.7	112.1

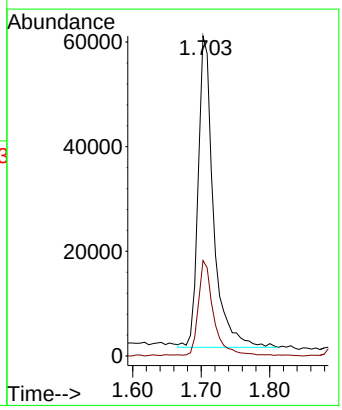


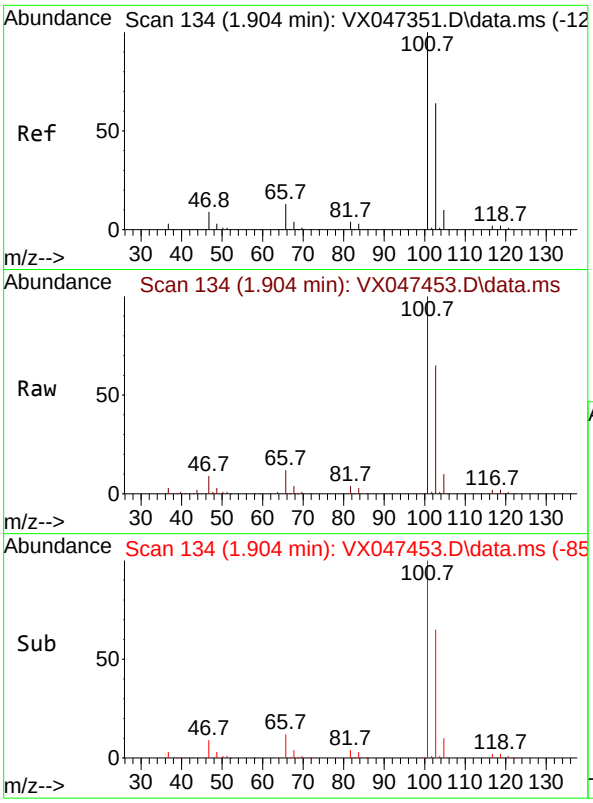


#6
Chloroethane
Concen: 47.777 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 64 Resp: 92359

Ion	Ratio	Lower	Upper
64	100		
66	30.3	24.4	36.6



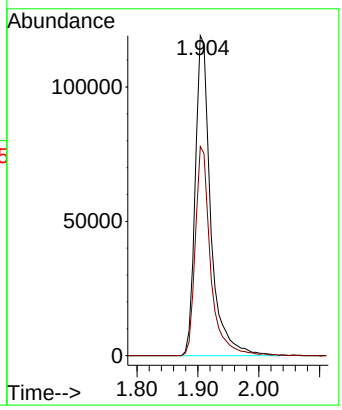


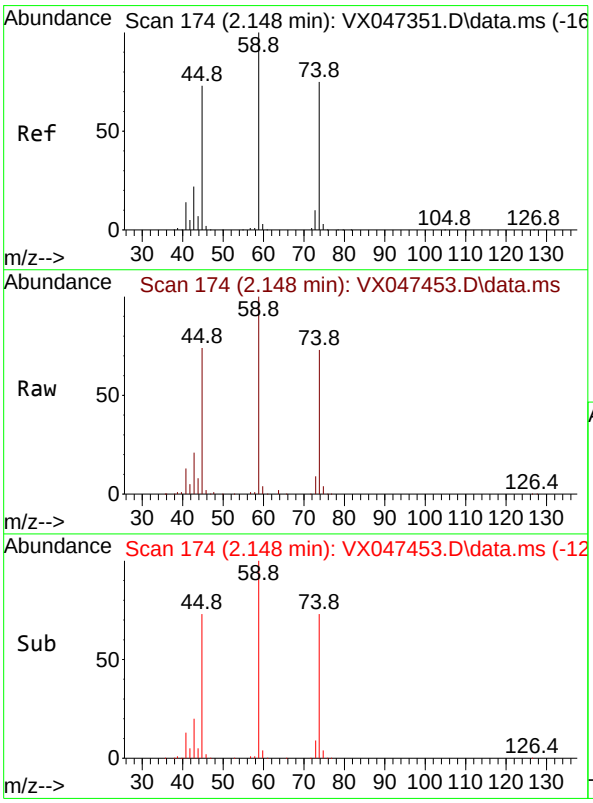
#7
Trichlorofluoromethane
Concen: 44.935 ug/l
RT: 1.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 210004

Ion	Ratio	Lower	Upper
101	100		
103	65.3	50.9	76.3

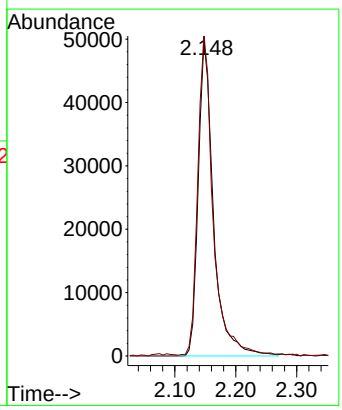


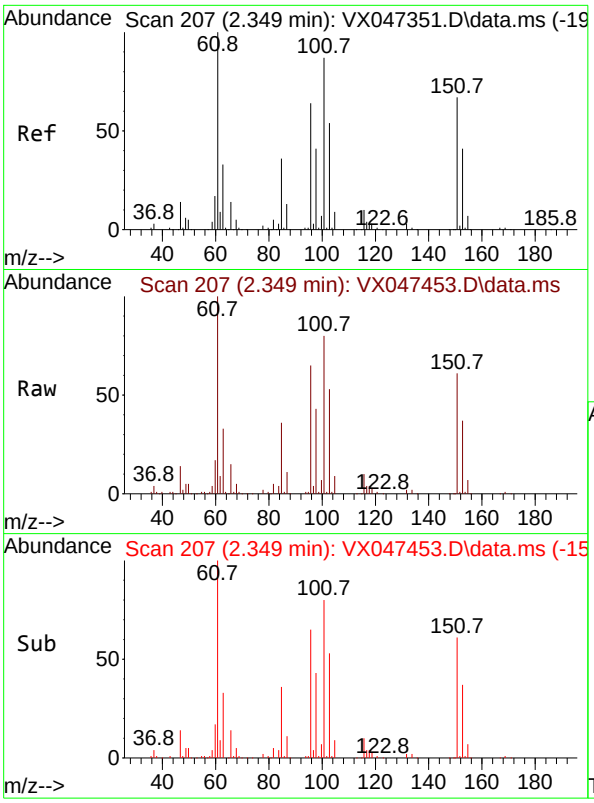


#8
Diethyl Ether
Concen: 52.580 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 74 Resp: 86525

Ion	Ratio	Lower	Upper
74	100		
45	102.3	51.3	154.0



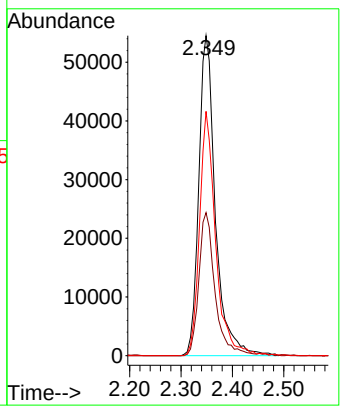


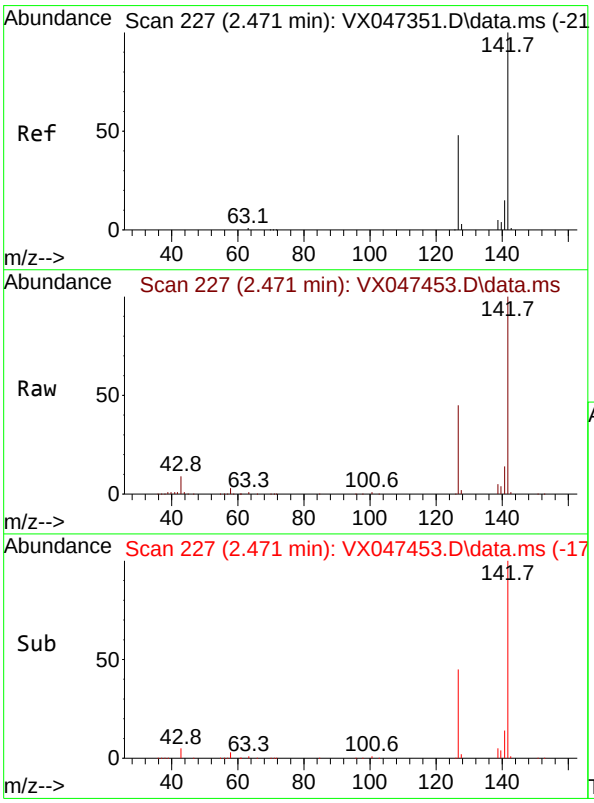
#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.126 ug/l
RT: 2.349 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 122337

Ion	Ratio	Lower	Upper
101	100		
85	43.5	34.3	51.5
151	74.5	59.2	88.8

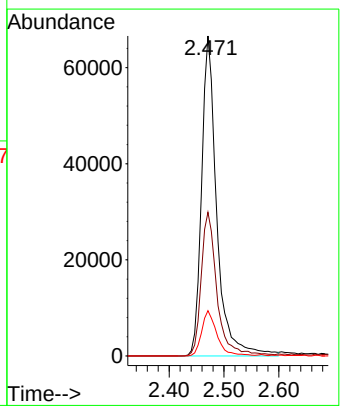


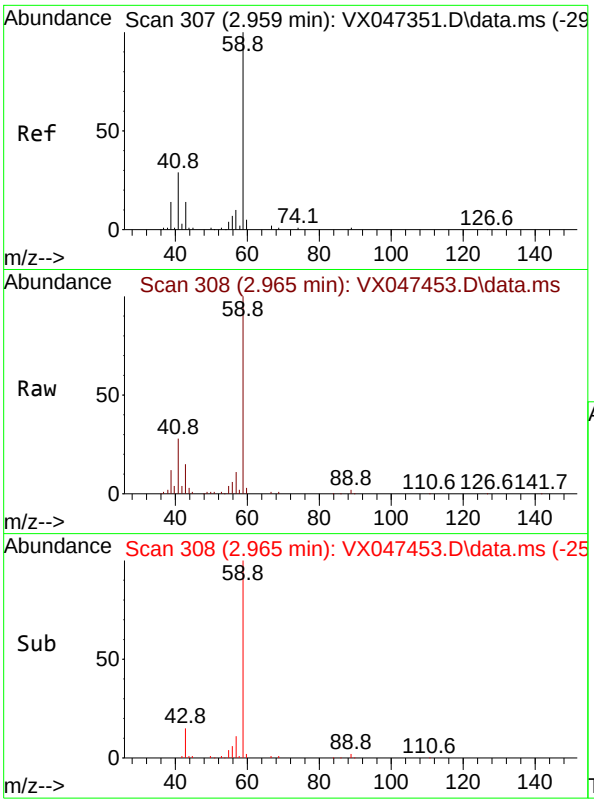


#10
Methyl Iodide
Concen: 27.577 ug/l
RT: 2.471 min Scan# 227
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:142 Resp: 128119

Ion	Ratio	Lower	Upper
142	100		
127	46.7	36.1	54.1
141	14.2	11.1	16.7



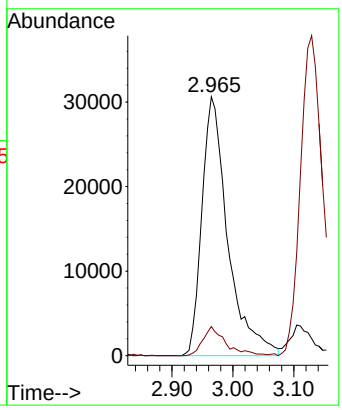


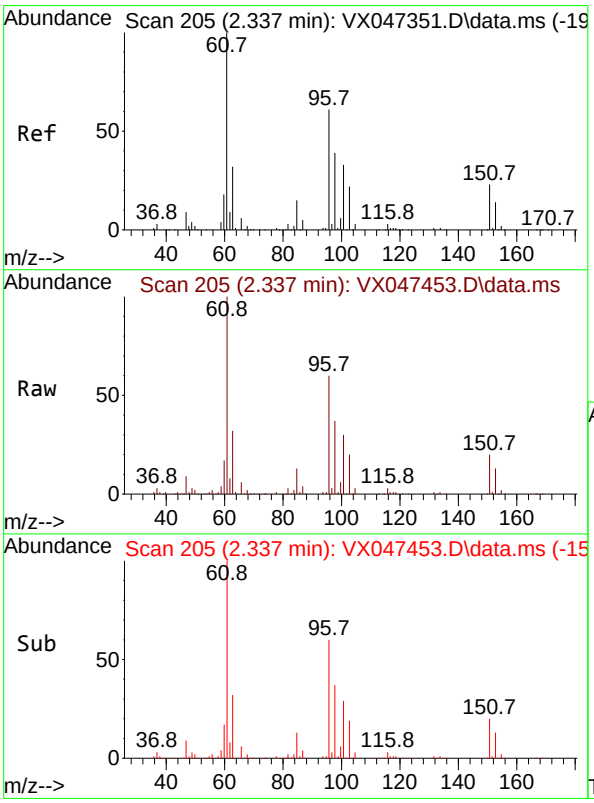
#11
Tert butyl alcohol
Concen: 338.682 ug/l
RT: 2.965 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 90515

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5

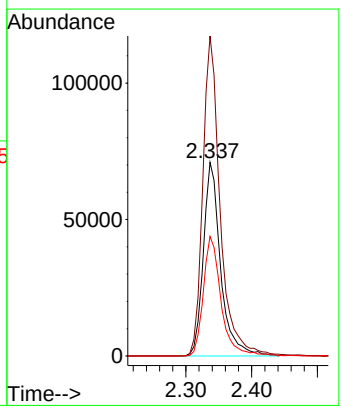


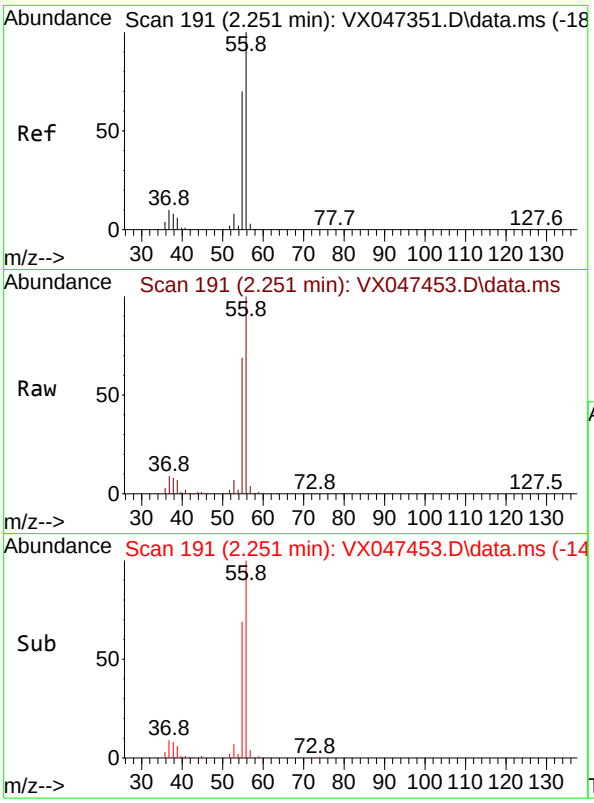


#12
1,1-Dichloroethene
Concen: 46.960 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 96 Resp: 129789

Ion	Ratio	Lower	Upper
96	100		
61	165.3	132.2	198.2
98	61.7	51.2	76.8



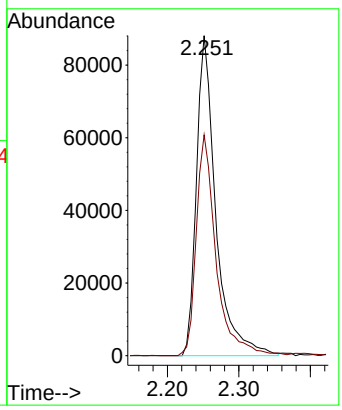


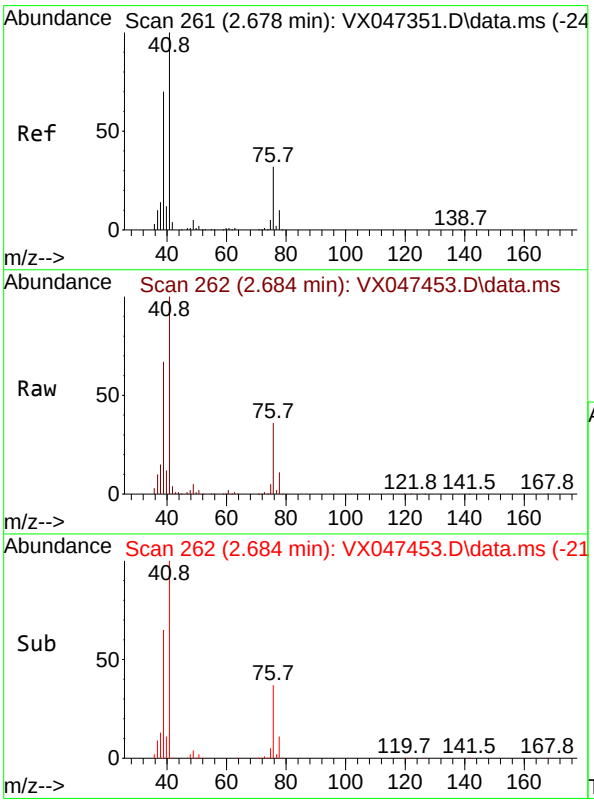
#13
Acrolein
Concen: 294.230 ug/l
RT: 2.251 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 165995

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.5	83.3

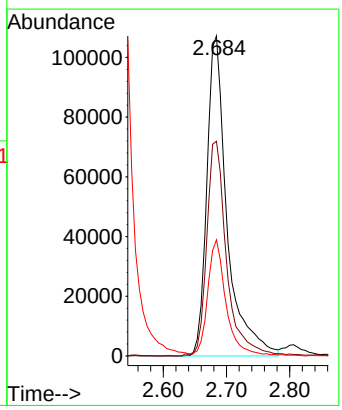


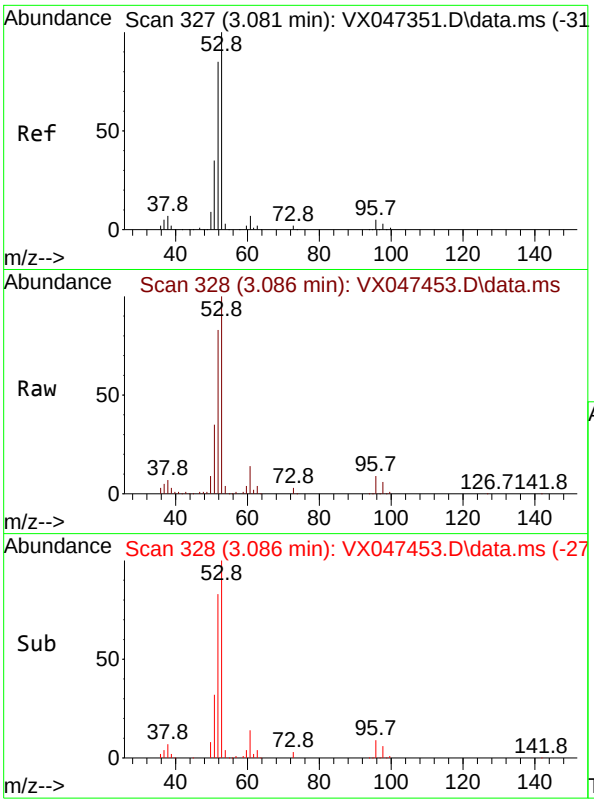


#14
Allyl chloride
Concen: 49.697 ug/l
RT: 2.684 min Scan# 262
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 41 Resp: 238562

Ion	Ratio	Lower	Upper
41	100		
39	66.1	54.6	81.8
76	33.2	27.6	41.4



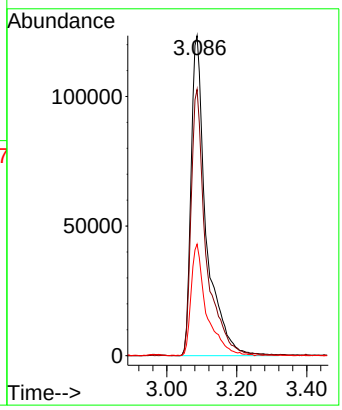


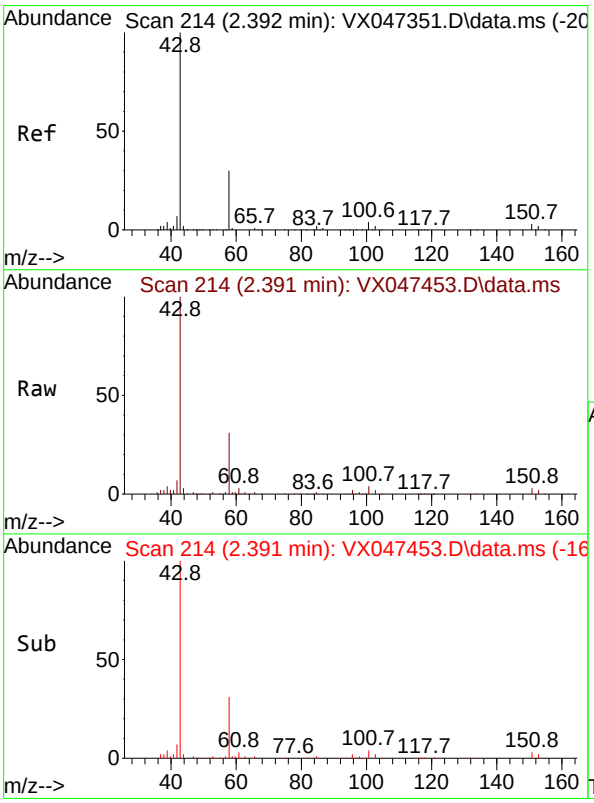
#15
Acrylonitrile
Concen: 287.522 ug/l
RT: 3.086 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 371314

Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.8	98.6
51	35.5	28.2	42.2

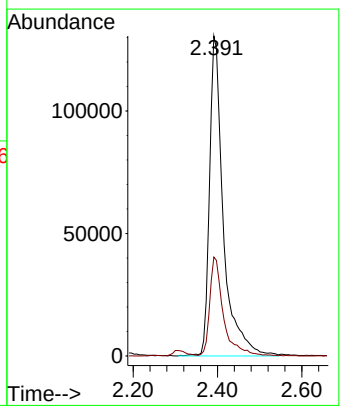


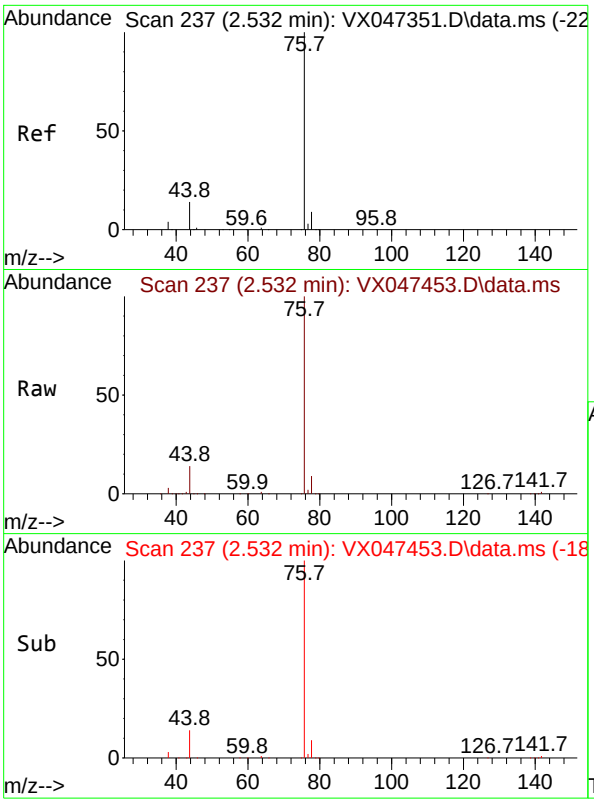


#16
Acetone
Concen: 258.028 ug/l
RT: 2.391 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 43 Resp: 297957

Ion	Ratio	Lower	Upper
43	100		
58	30.8	24.8	37.2



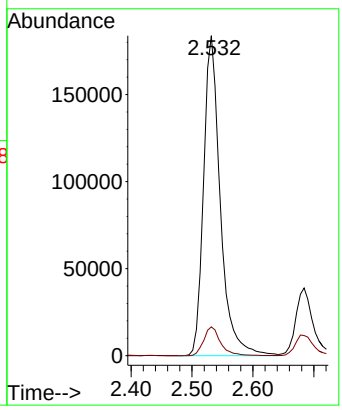


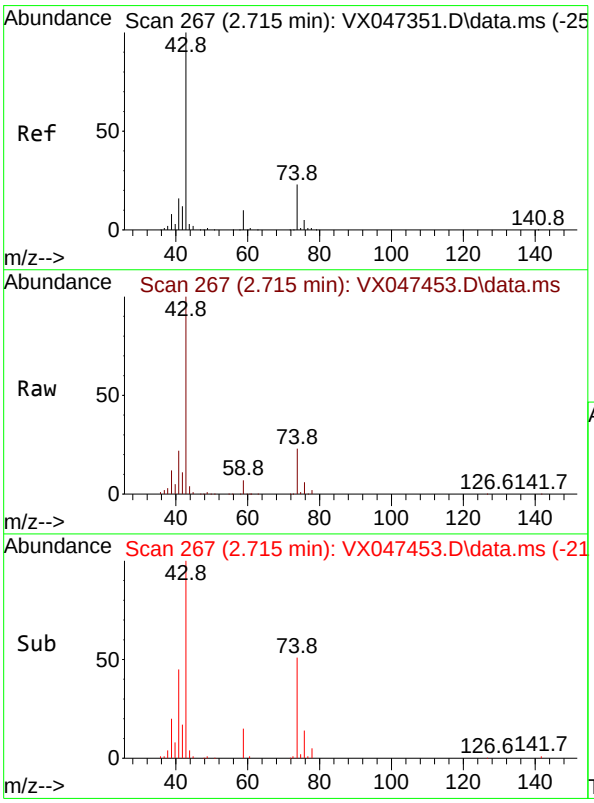
#17
Carbon Disulfide
Concen: 42.091 ug/l
RT: 2.532 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 351042

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8

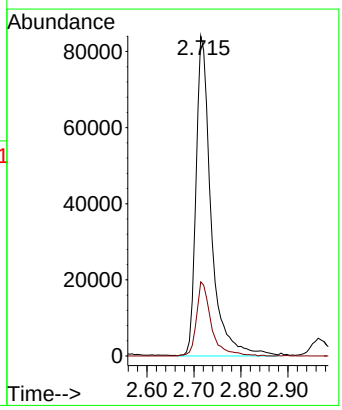


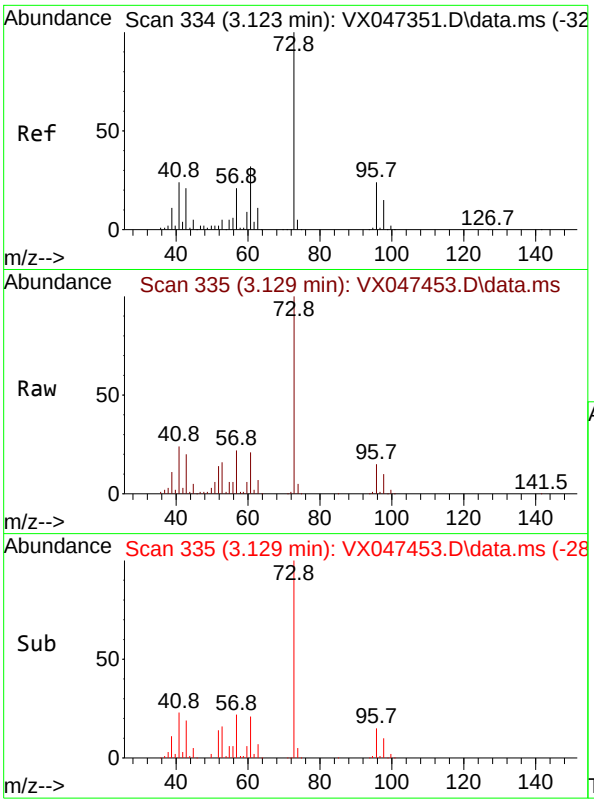


#18
Methyl Acetate
Concen: 63.067 ug/l
RT: 2.715 min Scan# 267
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 43 Resp: 188724

Ion	Ratio	Lower	Upper
43	100		
74	22.6	18.4	27.6



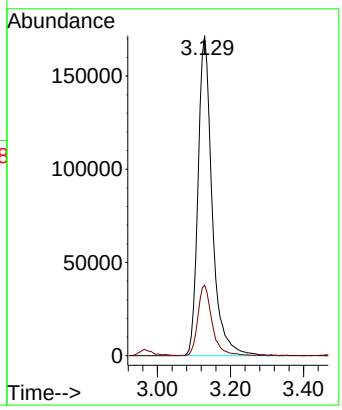


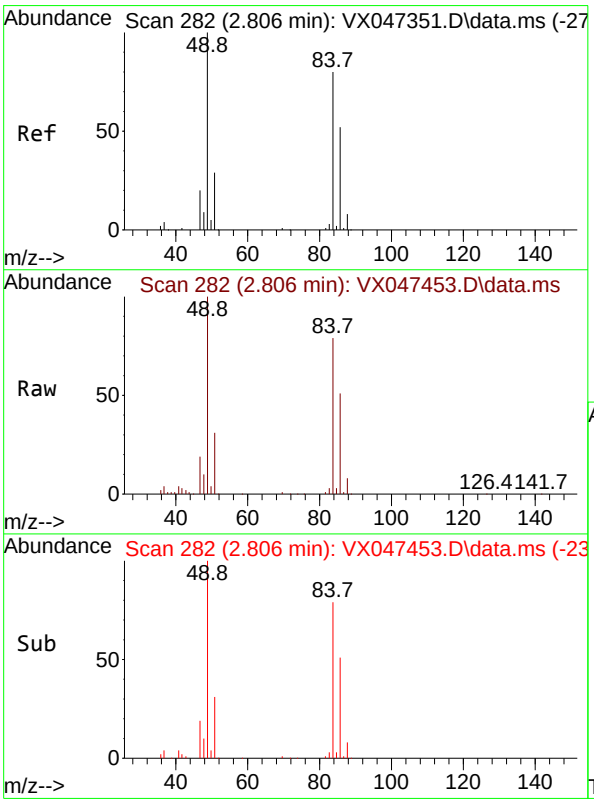
#19
Methyl tert-butyl Ether
Concen: 54.755 ug/l
RT: 3.129 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 460381

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.0	25.6

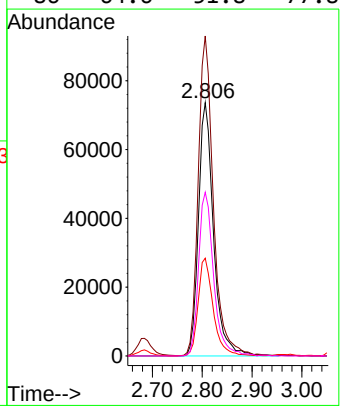


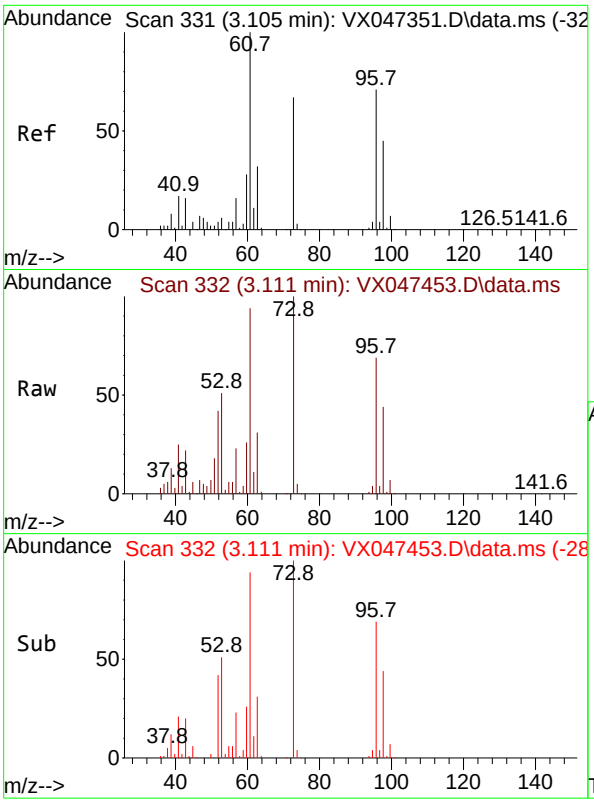


#20
Methylene Chloride
Concen: 50.626 ug/l
RT: 2.806 min Scan# 282
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 84 Resp: 154803

Ion	Ratio	Lower	Upper
84	100		
49	126.2	100.1	150.1
51	38.5	29.5	44.3
86	64.6	51.8	77.8



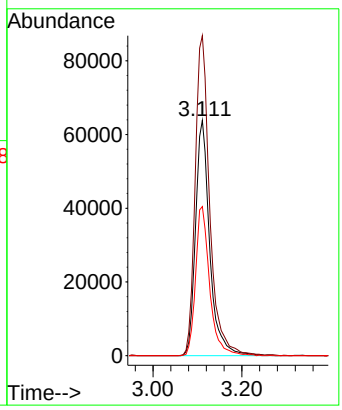


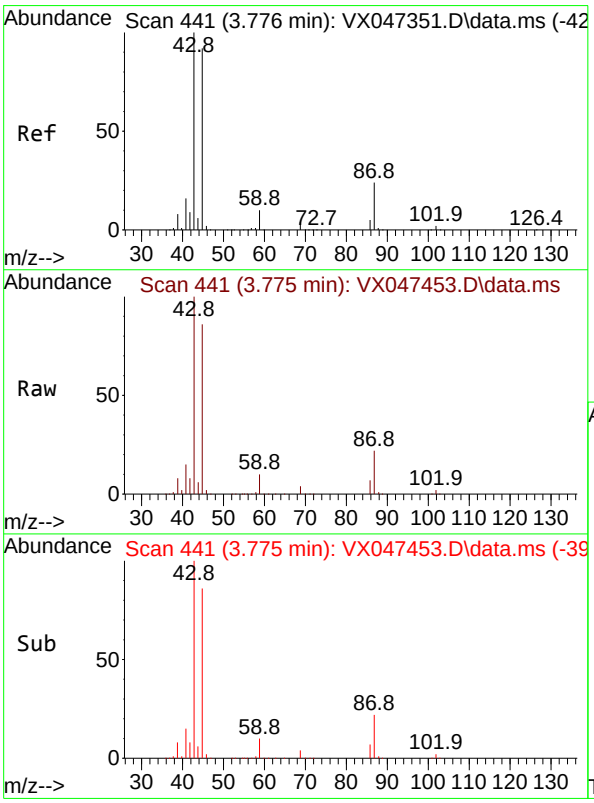
#21
trans-1,2-Dichloroethene
Concen: 48.285 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 141639

Ion	Ratio	Lower	Upper
96	100		
61	136.0	112.6	169.0
98	63.4	50.9	76.3

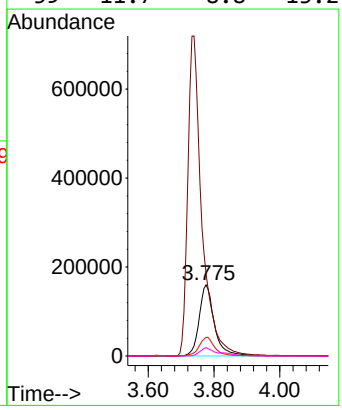


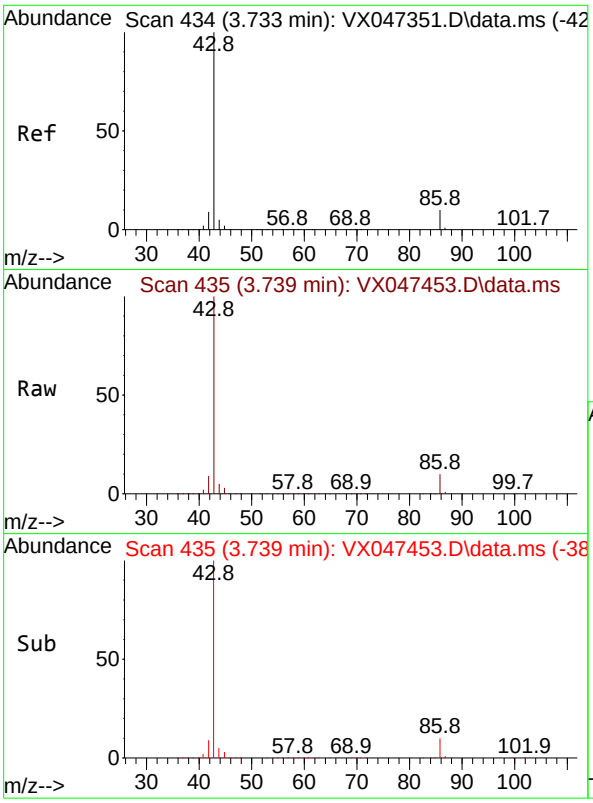


#22
Diisopropyl ether
Concen: 54.195 ug/l
RT: 3.775 min Scan# 441
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 45 Resp: 514249

Ion	Ratio	Lower	Upper
45	100		
43	115.6	86.8	130.2
87	26.0	20.4	30.6
59	11.7	8.8	13.2



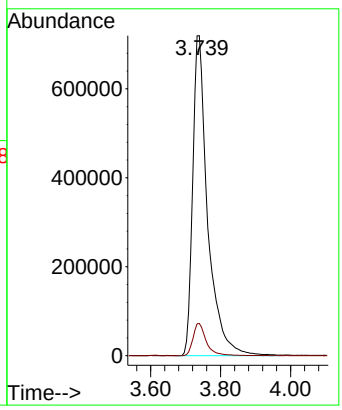


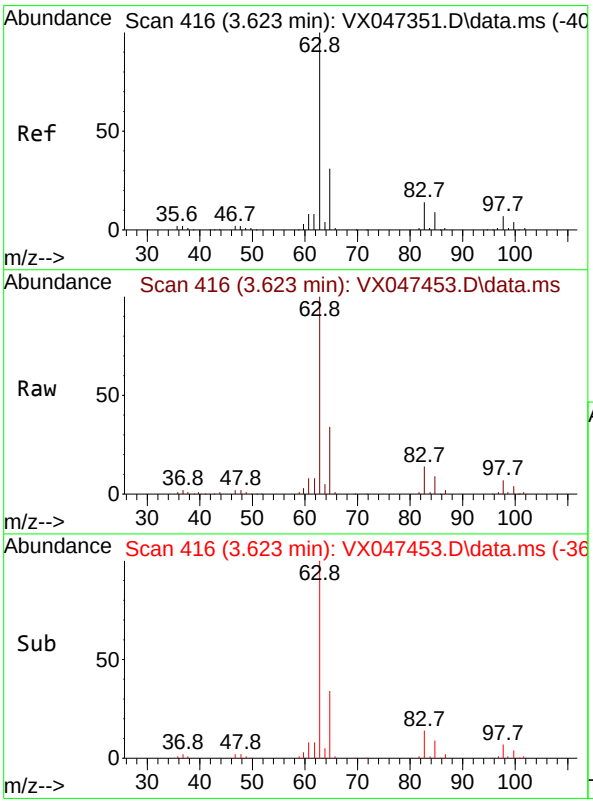
#23
Vinyl Acetate
Concen: 275.048 ug/l
RT: 3.739 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 2139175

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.9	11.9

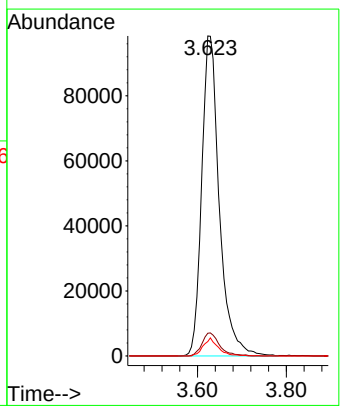


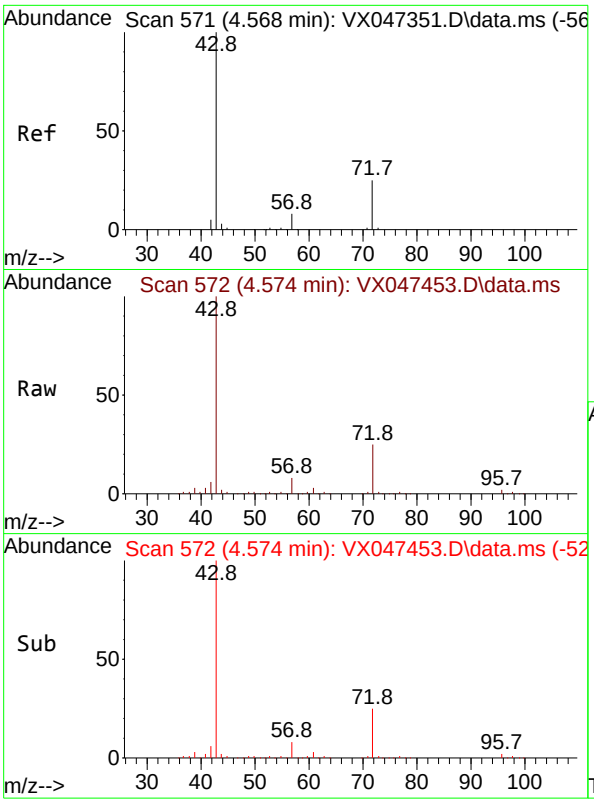


#24
1,1-Dichloroethane
Concen: 50.593 ug/l
RT: 3.623 min Scan# 416
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 63 Resp: 271347

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.3	9.9
100	4.6	2.1	6.3



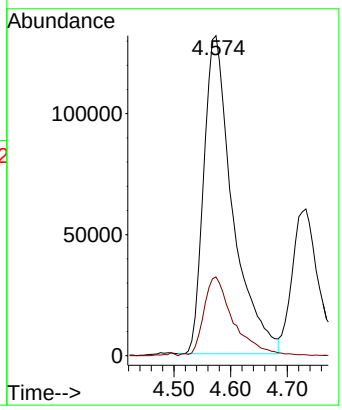


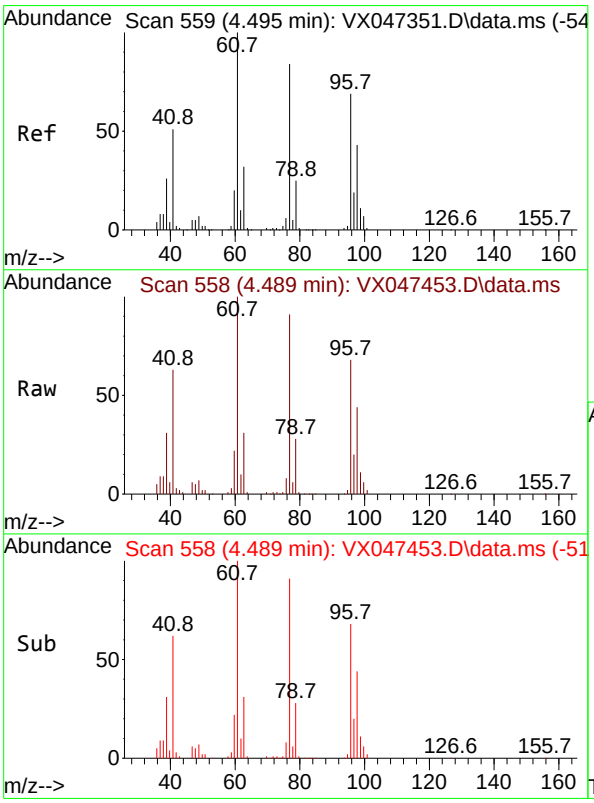
#25
2-Butanone
Concen: 307.630 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 465244

Ion	Ratio	Lower	Upper
43	100		
72	24.5	19.8	29.8

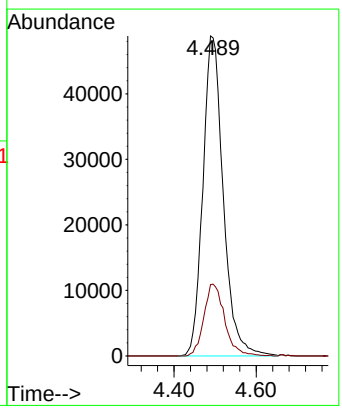


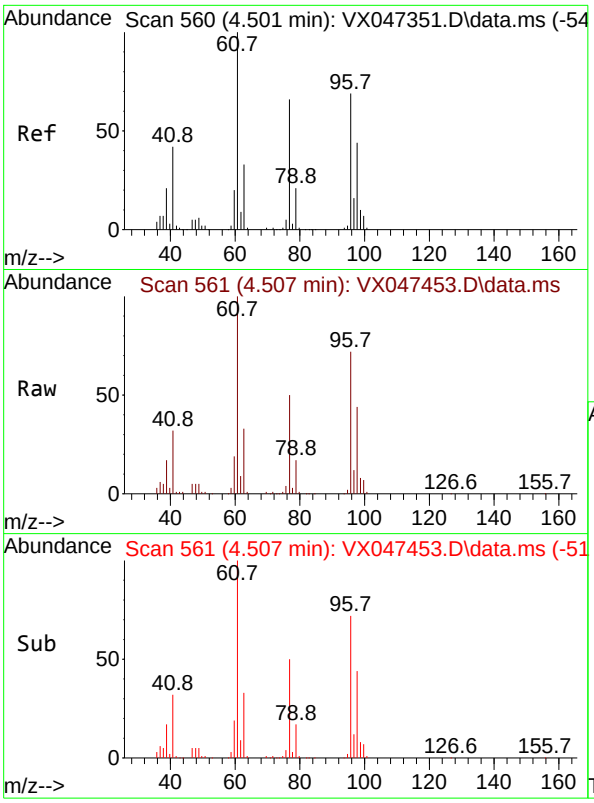


#26
2,2-Dichloropropane
Concen: 41.513 ug/l
RT: 4.489 min Scan# 558
Delta R.T. -0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 77 Resp: 168046

Ion	Ratio	Lower	Upper
77	100		
97	22.9	11.4	34.1



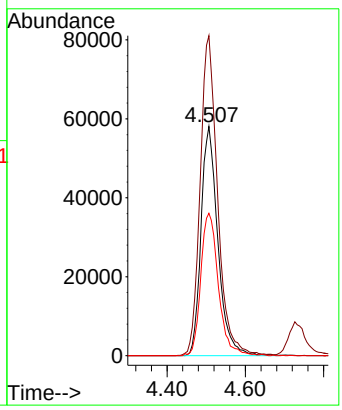


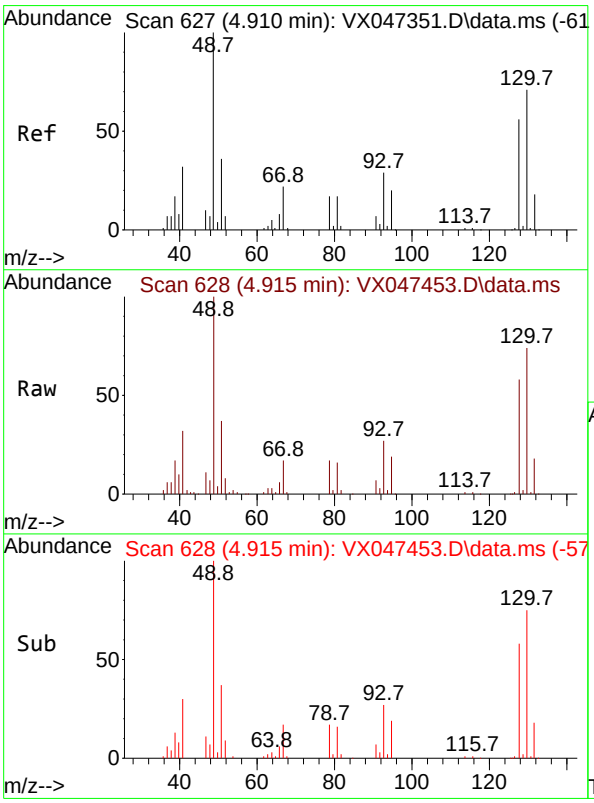
#27
cis-1,2-Dichloroethene
Concen: 50.756 ug/l
RT: 4.507 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 173414

Ion	Ratio	Lower	Upper
96	100		
61	144.6	0.0	296.6
98	64.8	0.0	130.4

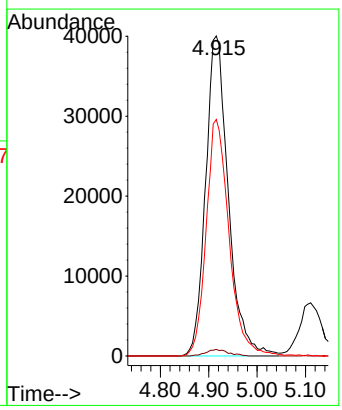


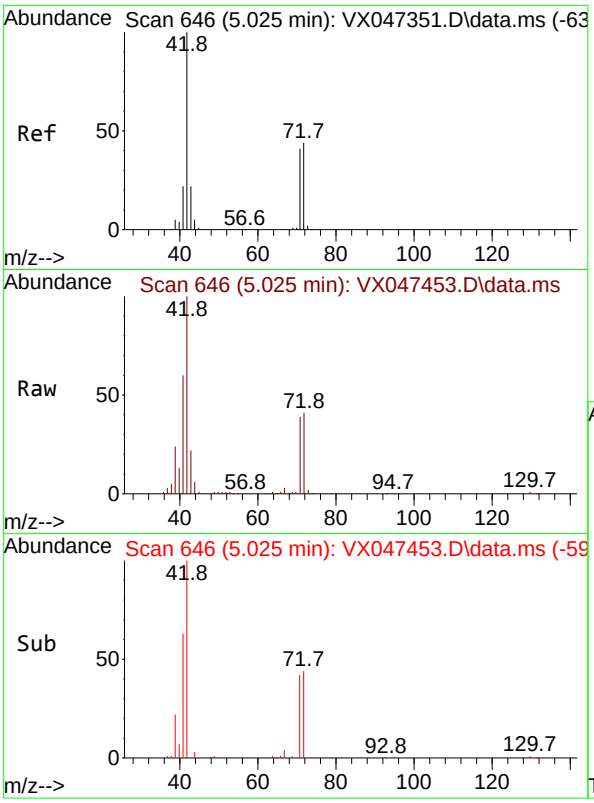


#28
Bromochloromethane
Concen: 58.641 ug/l
RT: 4.915 min Scan# 628
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 49 Resp: 130876

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	74.3	59.8	89.6



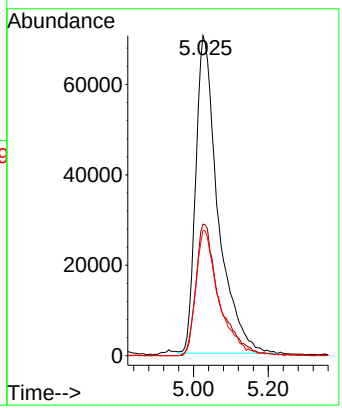


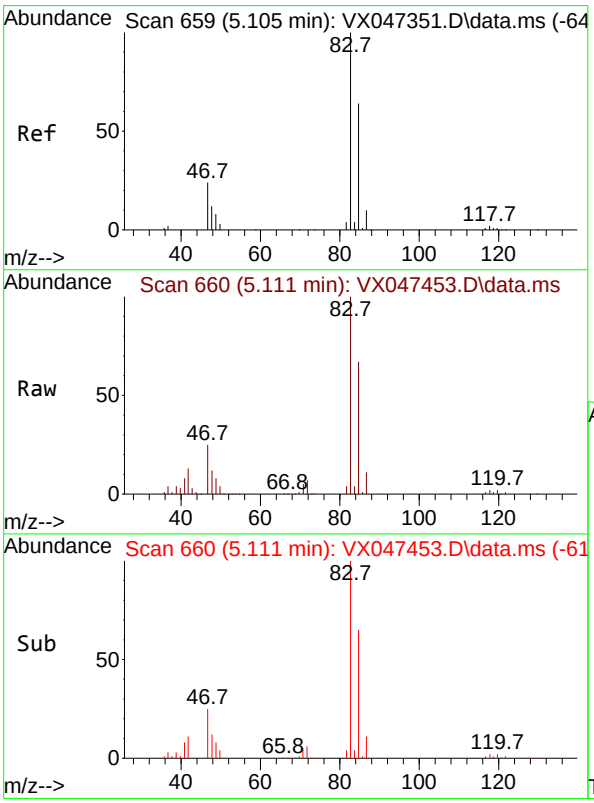
#29
Tetrahydrofuran
Concen: 296.359 ug/l
RT: 5.025 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 289688

Ion	Ratio	Lower	Upper
42	100		
72	43.5	34.6	51.8
71	41.0	32.6	49.0

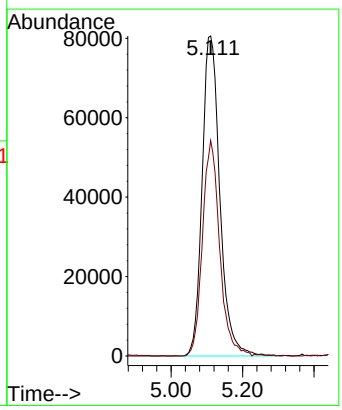


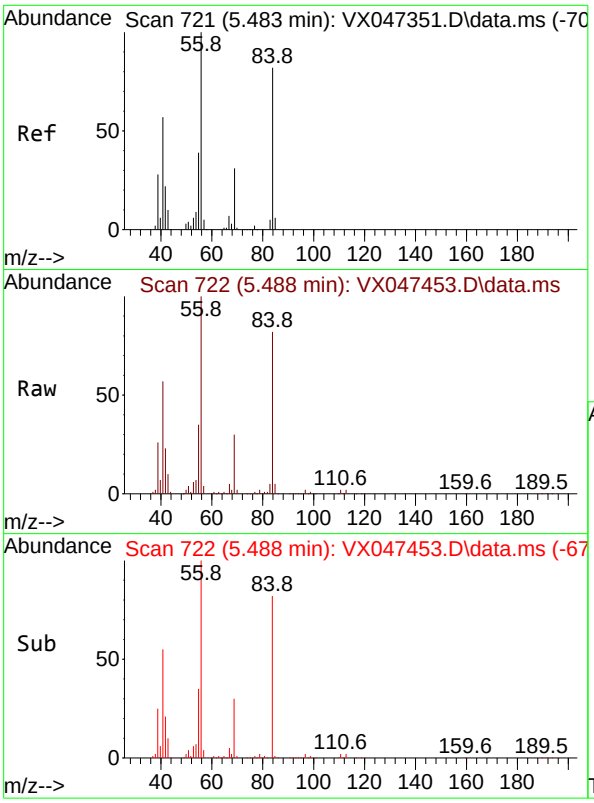


#30
Chloroform
Concen: 50.776 ug/l
RT: 5.111 min Scan# 660
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 83 Resp: 277931

Ion	Ratio	Lower	Upper
83	100		
85	67.3	51.2	76.8



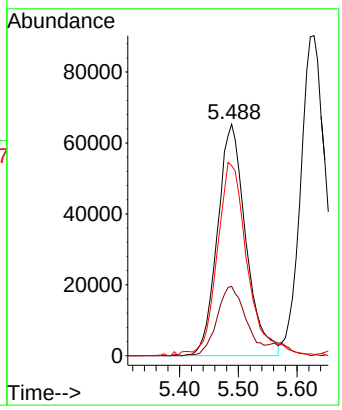


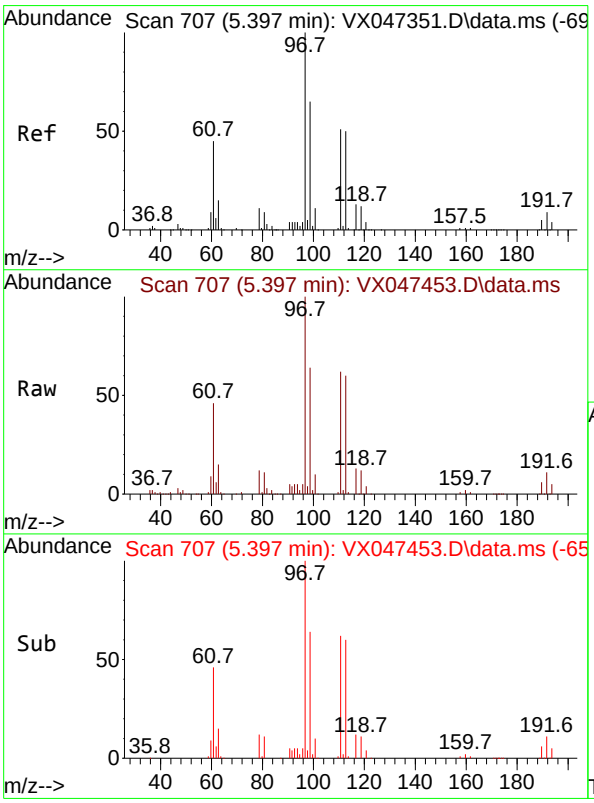
#31
Cyclohexane
Concen: 44.313 ug/l
RT: 5.488 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 219086

Ion	Ratio	Lower	Upper
56	100		
69	29.5	24.3	36.5
84	82.1	65.3	97.9

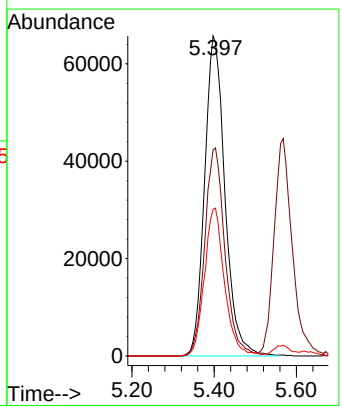


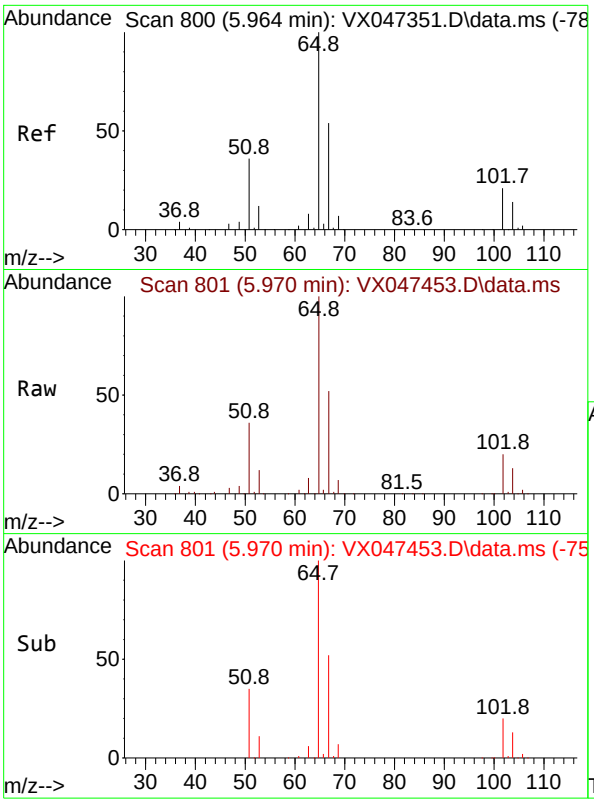


#32
1,1,1-Trichloroethane
Concen: 47.987 ug/l
RT: 5.397 min Scan# 707
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 97 Resp: 226085

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.0
61	45.6	35.7	53.5



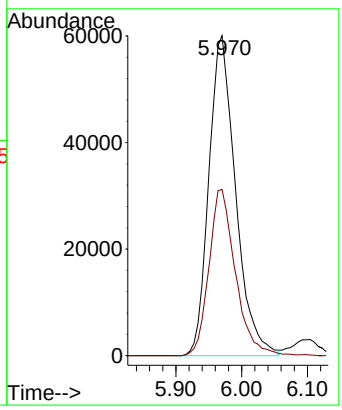


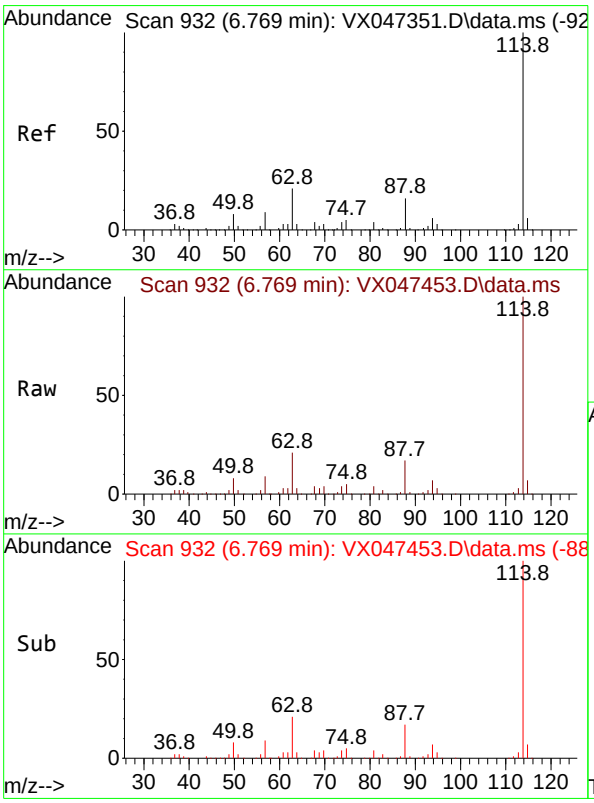
#33
1,2-Dichloroethane-d4
Concen: 55.283 ug/l
RT: 5.970 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 169837

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	106.0

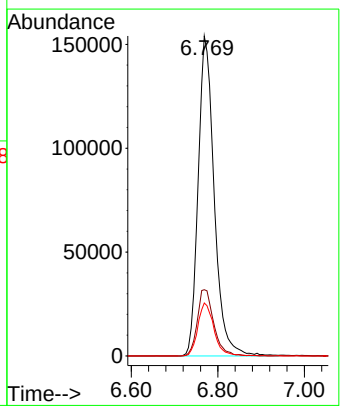


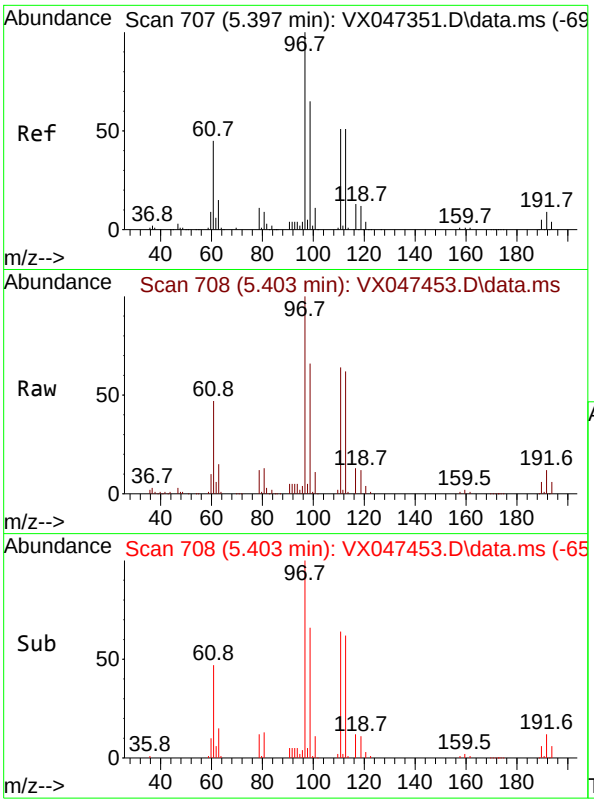


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:114 Resp: 397450

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	42.4
88	16.5	0.0	33.0



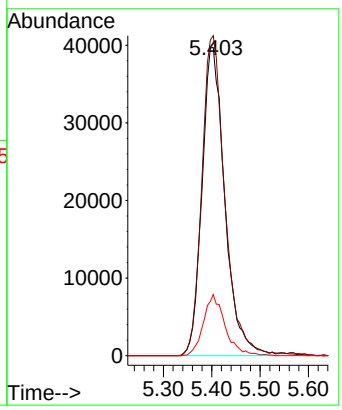


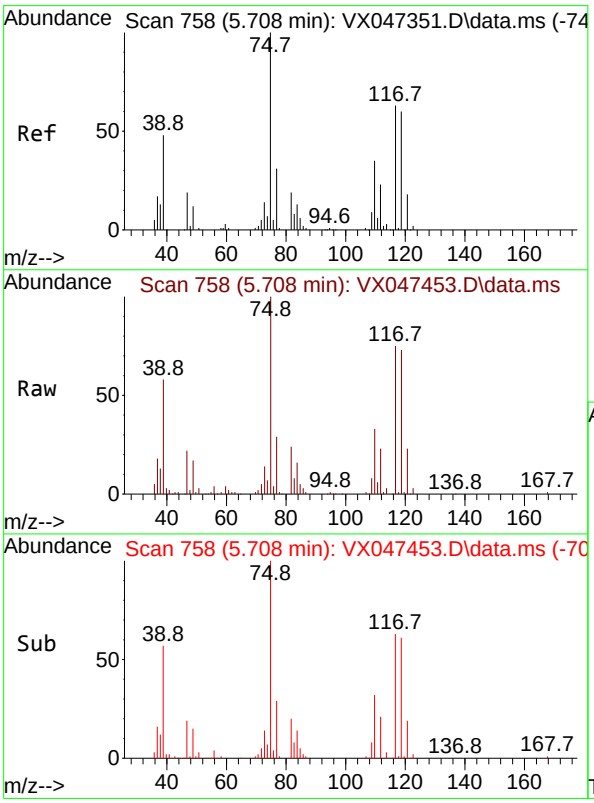
#35
Dibromofluoromethane
Concen: 50.761 ug/l
RT: 5.403 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 130938

Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.4	122.2
192	18.8	14.1	21.1

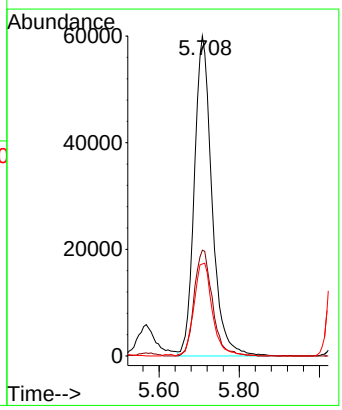


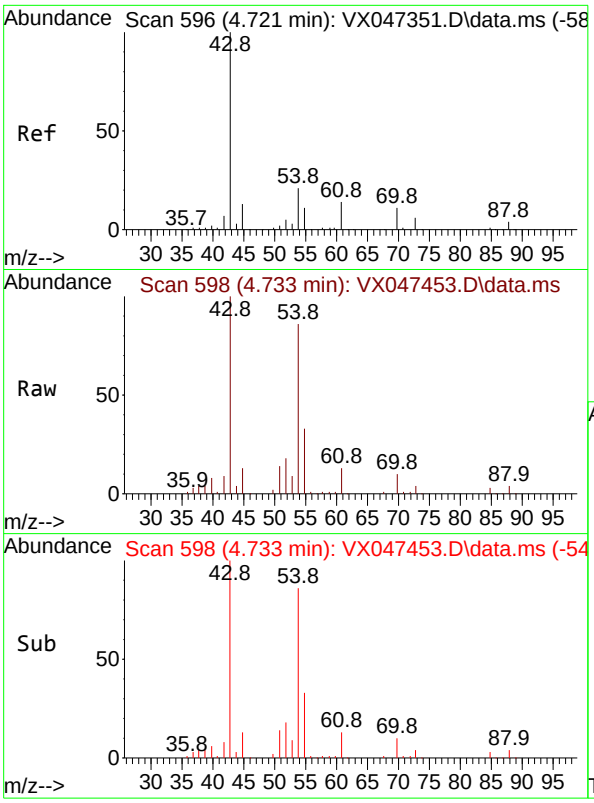


#36
1,1-Dichloropropene
Concen: 45.011 ug/l
RT: 5.708 min Scan# 758
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 75 Resp: 183283

Ion	Ratio	Lower	Upper
75	100		
110	34.2	17.4	52.2
77	30.4	24.4	36.6



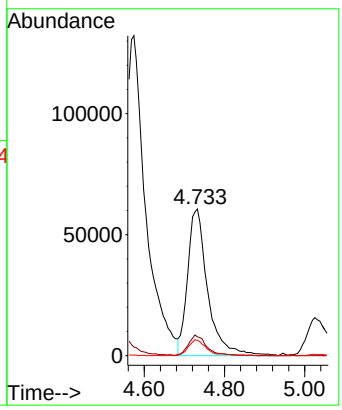


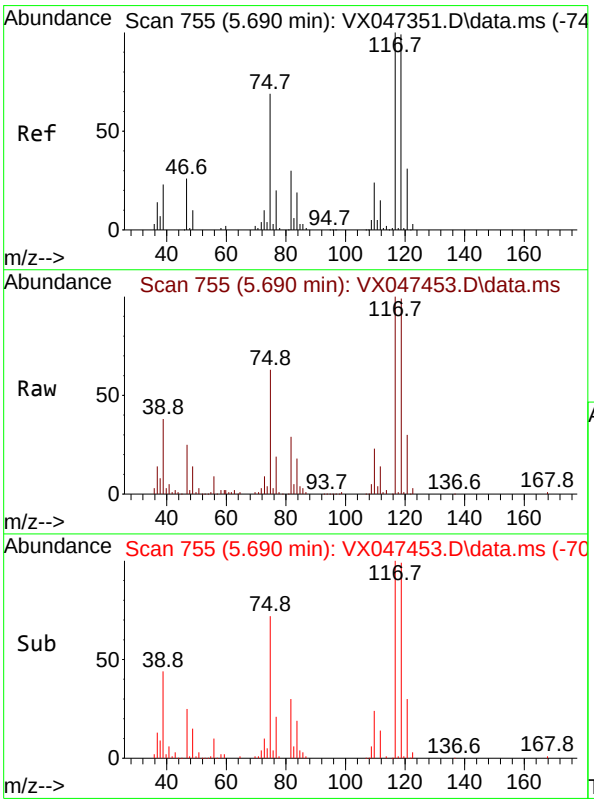
#37
Ethyl Acetate
Concen: 49.833 ug/l
RT: 4.733 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 210658

Ion	Ratio	Lower	Upper
43	100		
61	12.4	9.4	14.2
70	9.1	7.0	10.6

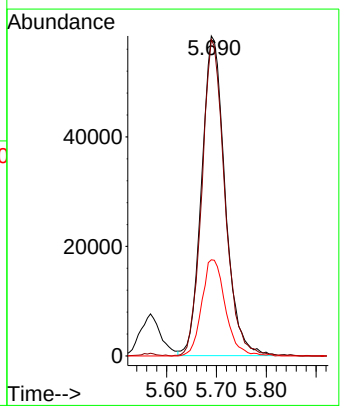


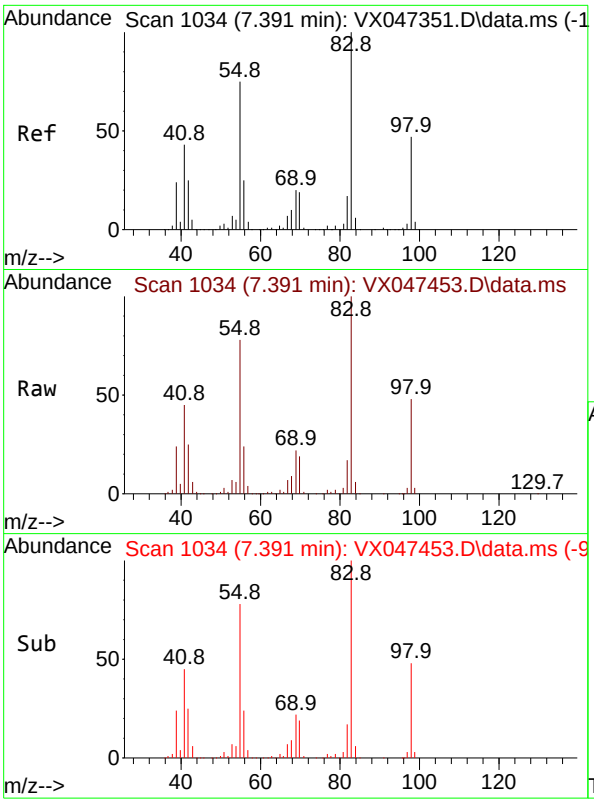


#38
Carbon Tetrachloride
Concen: 42.744 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:117 Resp: 190198

Ion	Ratio	Lower	Upper
117	100		
119	98.8	78.5	117.7
121	30.1	24.7	37.1



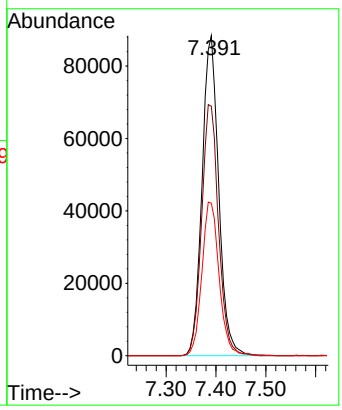


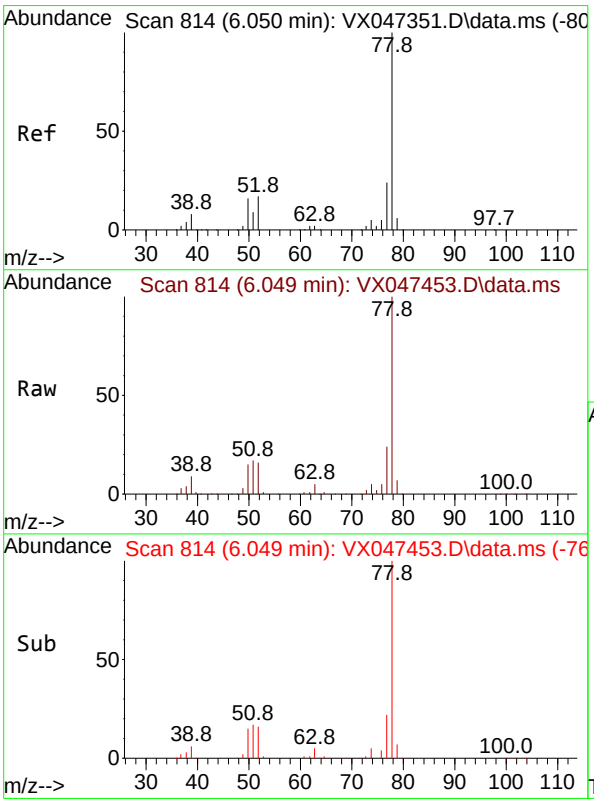
#39
Methylcyclohexane
Concen: 40.357 ug/l
RT: 7.391 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 204976

Ion	Ratio	Lower	Upper
83	100		
55	78.0	60.0	90.0
98	47.7	37.2	55.8

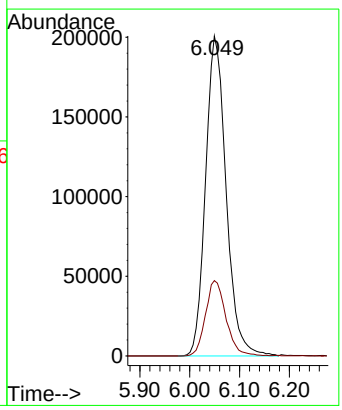


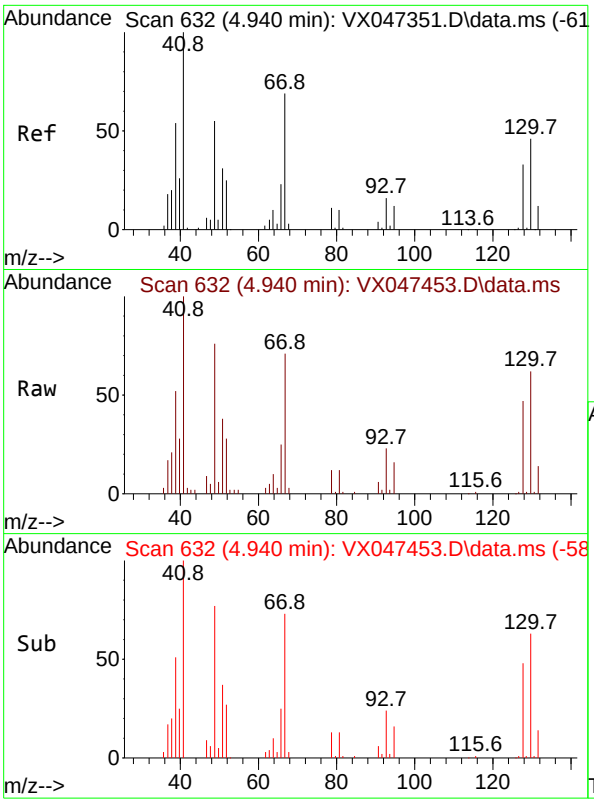


#40
Benzene
Concen: 47.193 ug/l
RT: 6.049 min Scan# 814
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 78 Resp: 575192

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4



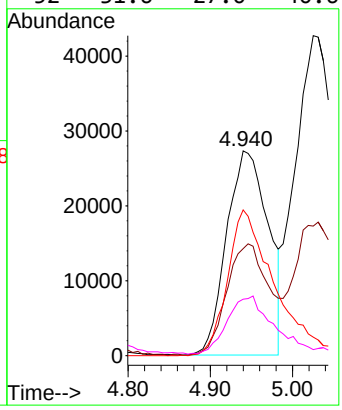


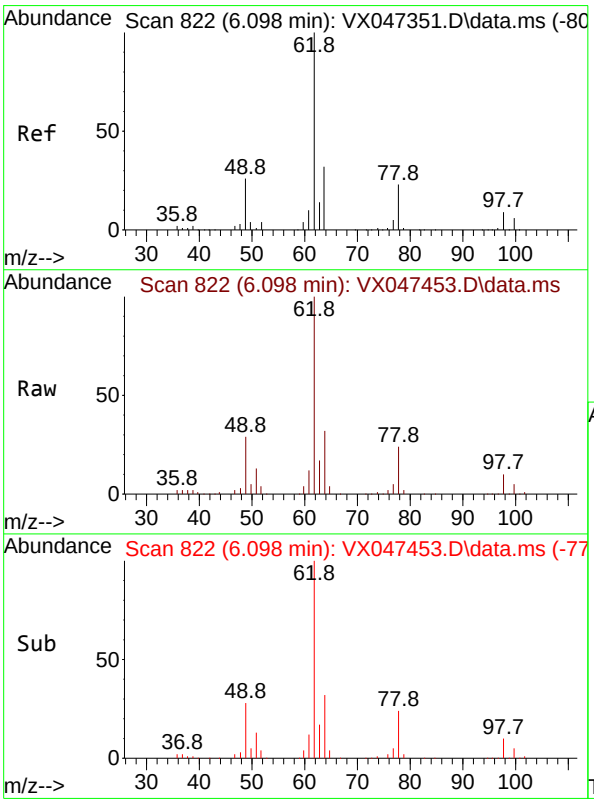
#41
Methacrylonitrile
Concen: 53.767 ug/l
RT: 4.940 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 95846

Ion	Ratio	Lower	Upper
41	100		
39	57.0	45.4	68.2
67	81.4	64.0	96.0
52	31.6	27.0	40.6

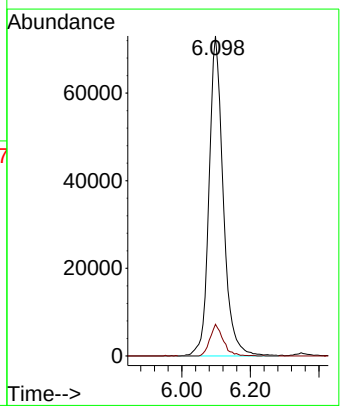


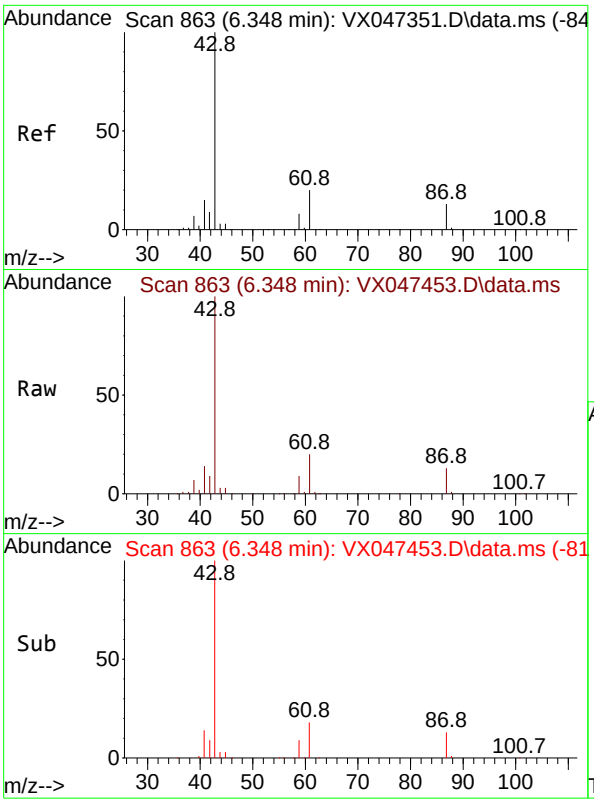


#42
1,2-Dichloroethane
Concen: 48.905 ug/l
RT: 6.098 min Scan# 822
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 62 Resp: 211130

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.0



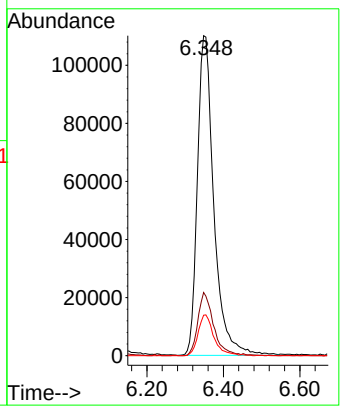


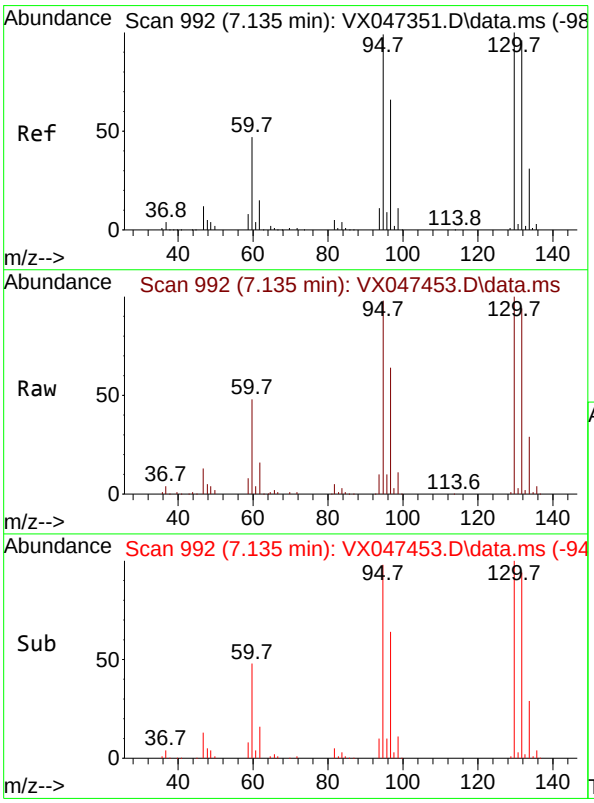
#43
Isopropyl Acetate
Concen: 54.264 ug/l
RT: 6.348 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 329536

Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.4	23.0
87	12.3	10.2	15.4

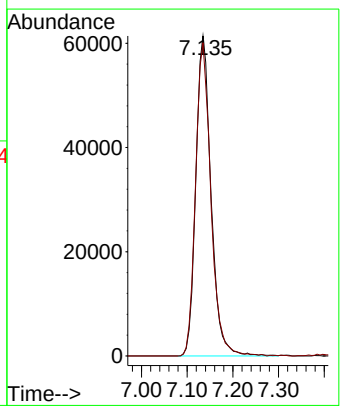


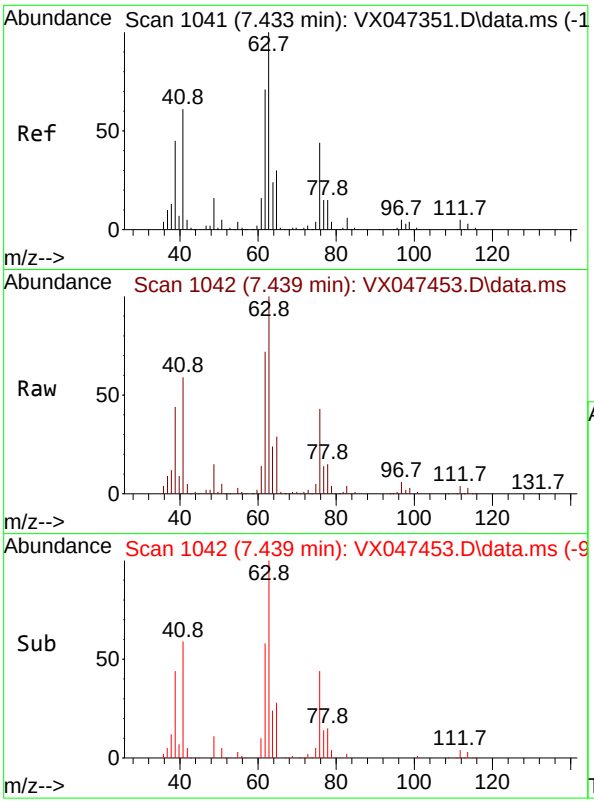


#44
Trichloroethene
Concen: 45.468 ug/l
RT: 7.135 min Scan# 992
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:130 Resp: 141897

Ion	Ratio	Lower	Upper
130	100		
95	97.9	0.0	198.6



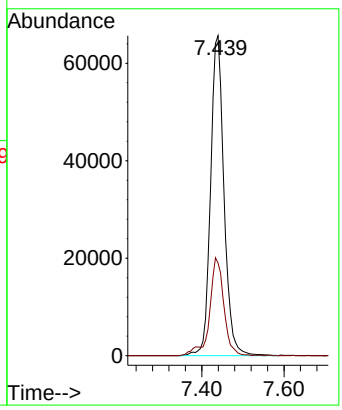


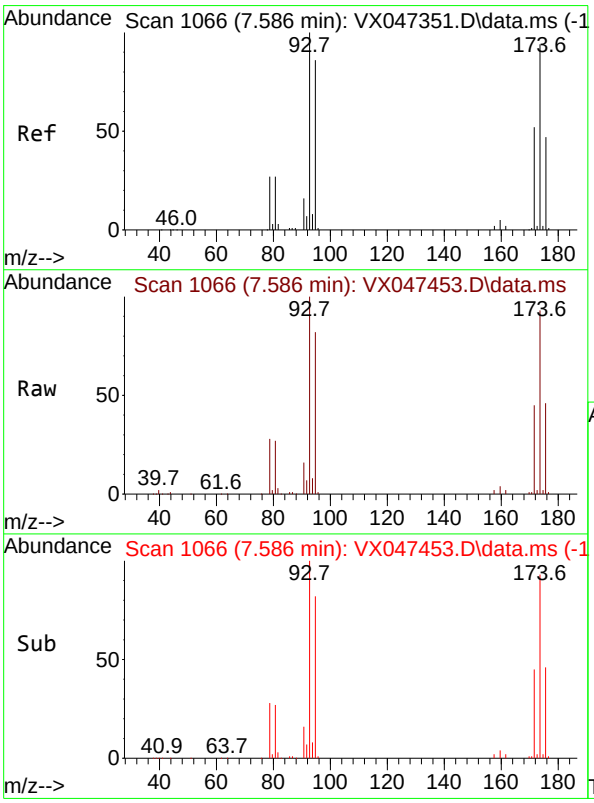
#45
1,2-Dichloropropane
Concen: 48.832 ug/l
RT: 7.439 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 149101

Ion	Ratio	Lower	Upper
63	100		
65	29.0	23.8	35.6

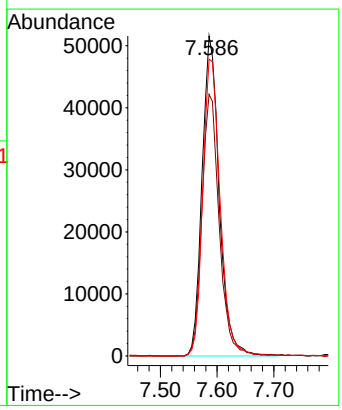


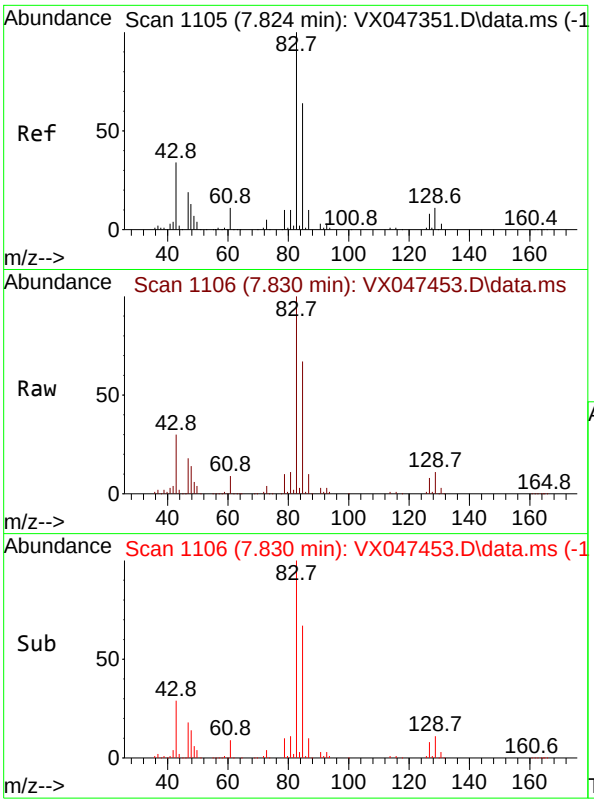


#46
Dibromomethane
Concen: 48.823 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 93 Resp: 108227

Ion	Ratio	Lower	Upper
93	100		
95	82.3	68.0	102.0
174	94.3	75.8	113.6



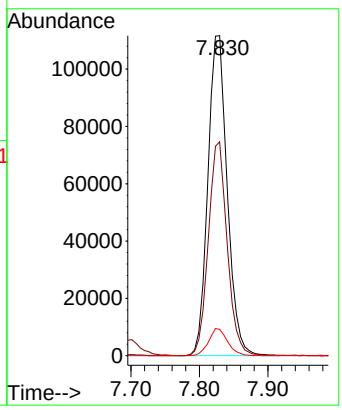


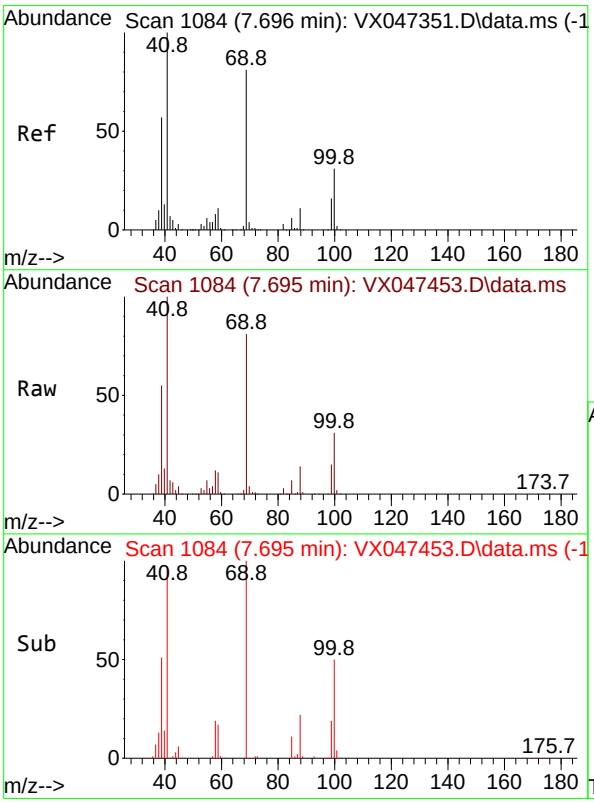
#47
Bromodichloromethane
Concen: 47.732 ug/l
RT: 7.830 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 219351

Ion	Ratio	Lower	Upper
83	100		
85	66.8	51.0	76.6
127	8.2	7.0	10.4

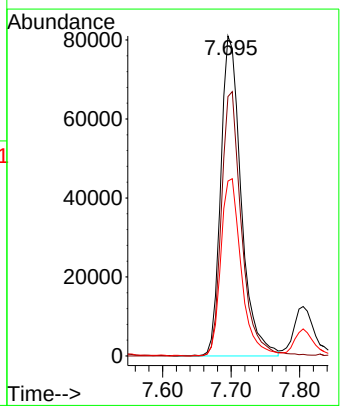


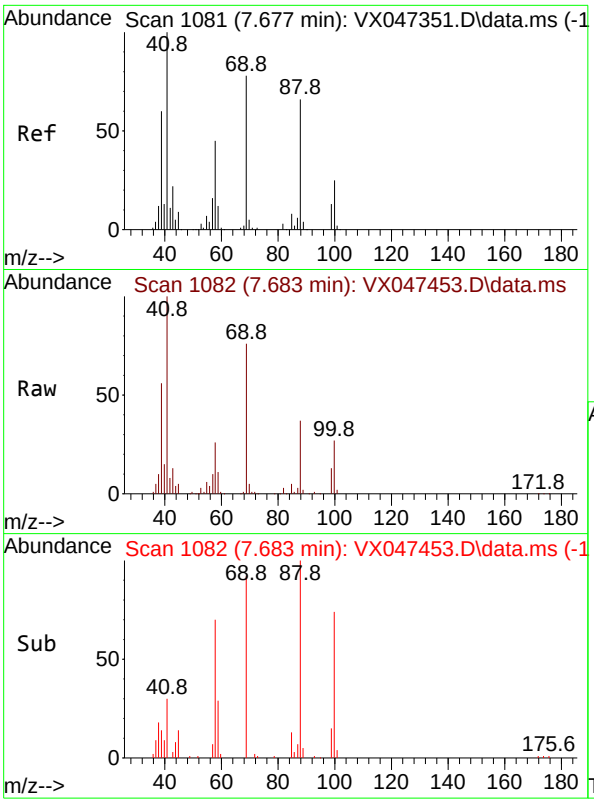


#48
Methyl methacrylate
Concen: 53.107 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 41 Resp: 167405

Ion	Ratio	Lower	Upper
41	100		
69	81.2	65.0	97.4
39	55.5	45.7	68.5



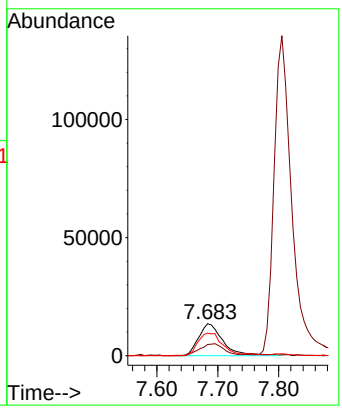


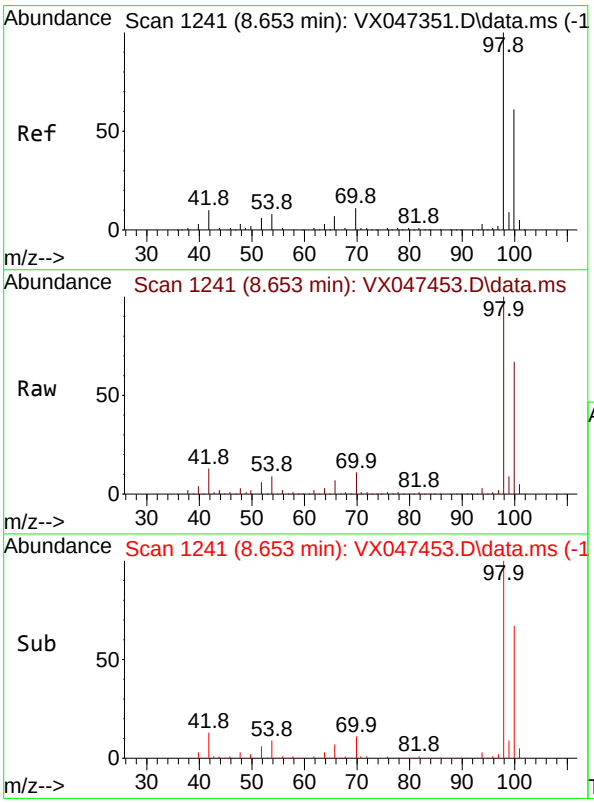
#49
1,4-Dioxane
Concen: 1229.562 ug/l
RT: 7.683 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 37678

Ion	Ratio	Lower	Upper
88	100		
43	39.1	32.4	48.6
58	74.2	56.9	85.3

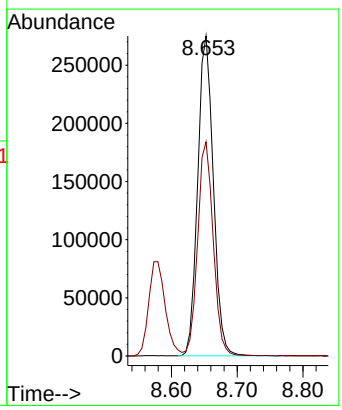


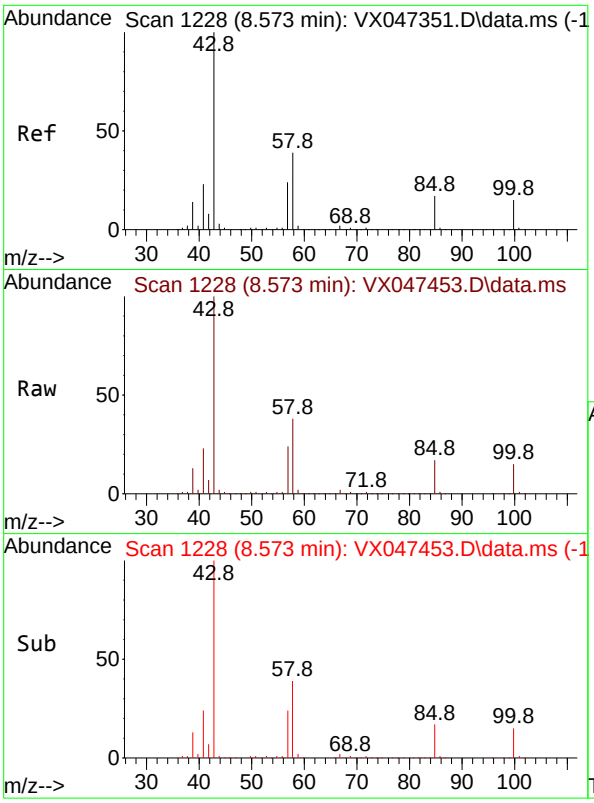


#50
Toluene-d8
Concen: 49.137 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 98 Resp: 453029

Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.9	80.9



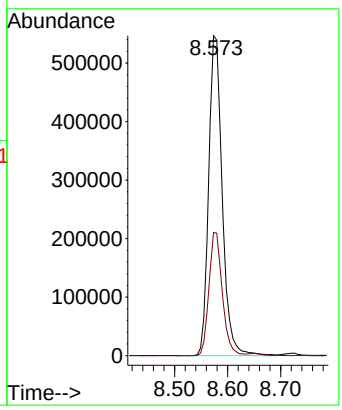


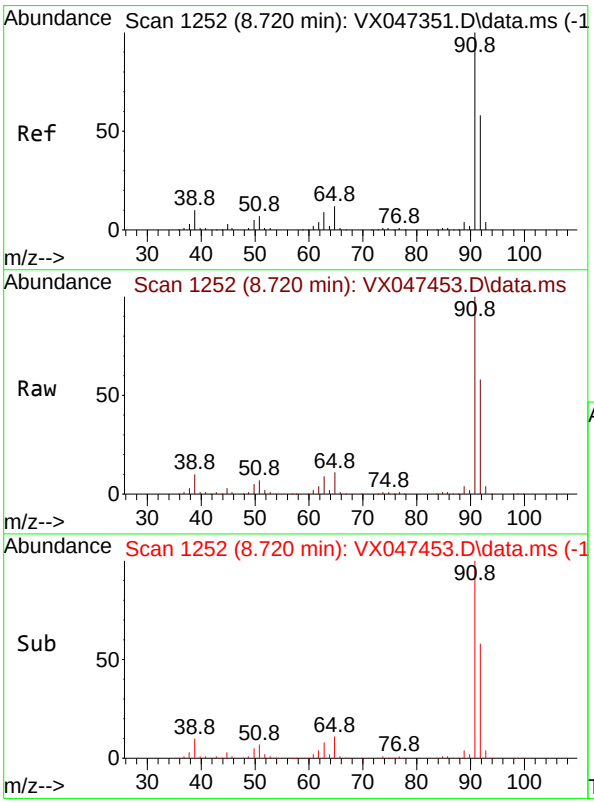
#51
4-Methyl-2-Pentanone
Concen: 278.187 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 972174

Ion	Ratio	Lower	Upper
43	100		
58	38.0	31.2	46.8

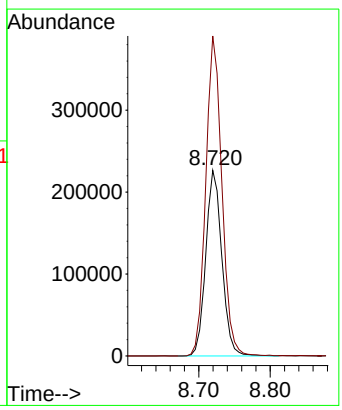


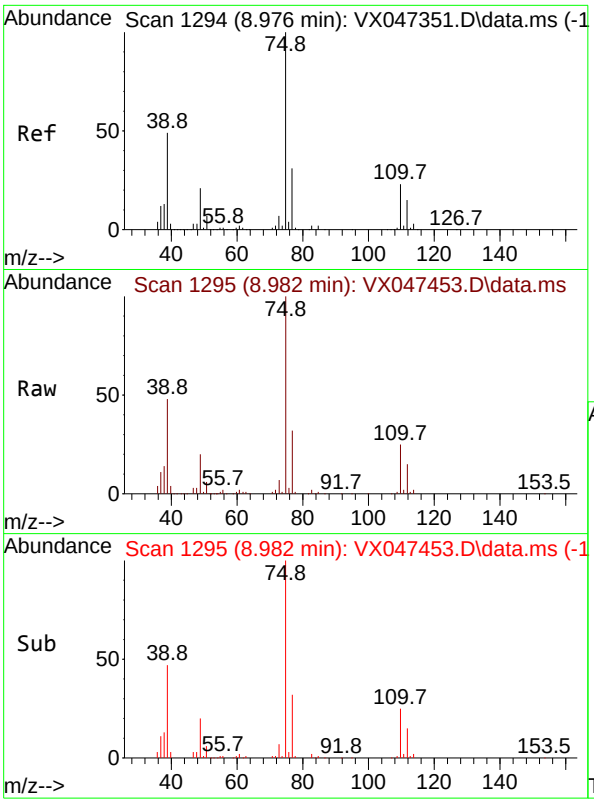


#52
Toluene
Concen: 47.090 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 92 Resp: 354651

Ion	Ratio	Lower	Upper
92	100		
91	171.9	136.3	204.5



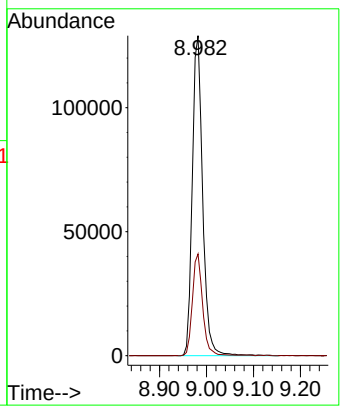


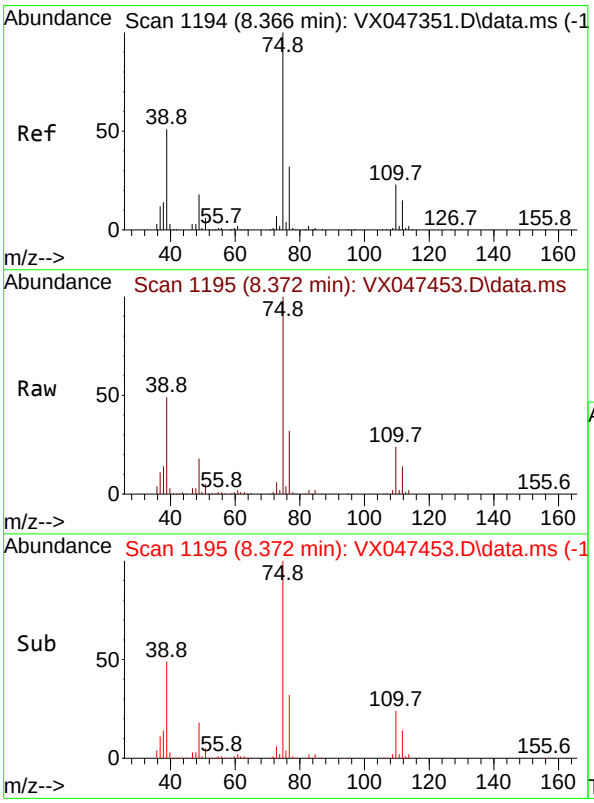
#53
t-1,3-Dichloropropene
Concen: 49.509 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 198566

Ion	Ratio	Lower	Upper
75	100		
77	31.8	24.7	37.1

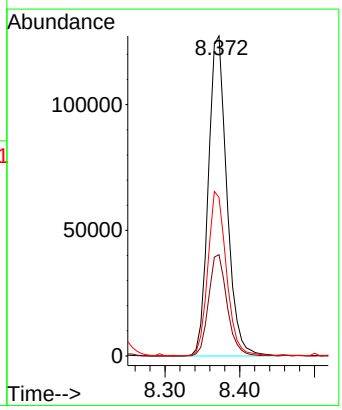


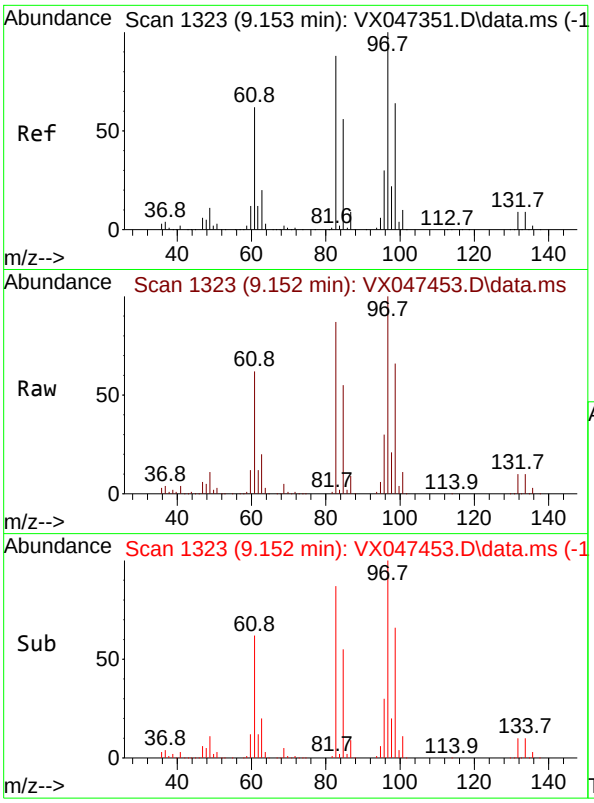


#54
cis-1,3-Dichloropropene
Concen: 48.331 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 75 Resp: 219408

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4
39	48.7	40.9	61.3



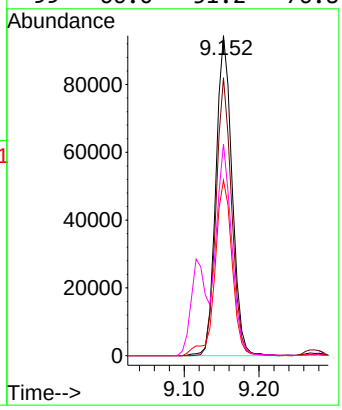


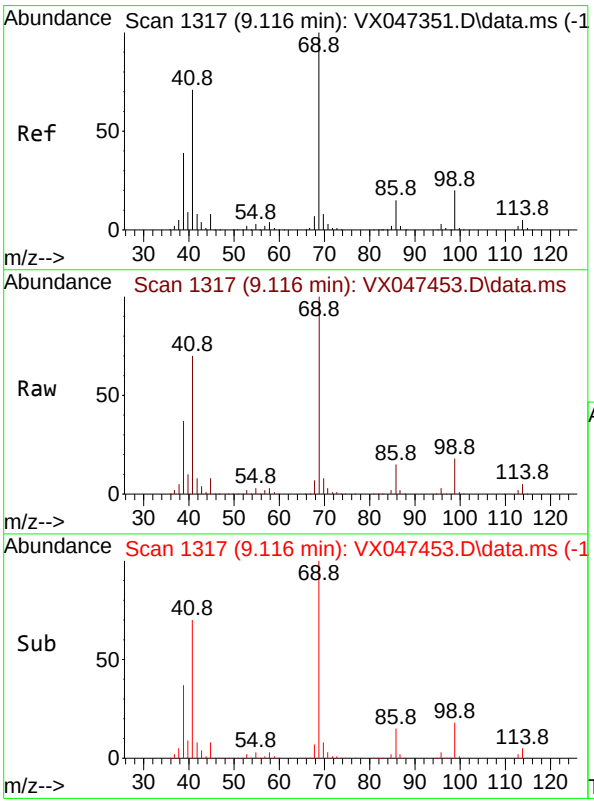
#55
1,1,2-Trichloroethane
Concen: 49.854 ug/l
RT: 9.152 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 142557

Ion	Ratio	Lower	Upper
97	100		
83	86.8	70.6	106.0
85	54.8	44.7	67.1
99	66.0	51.2	76.8

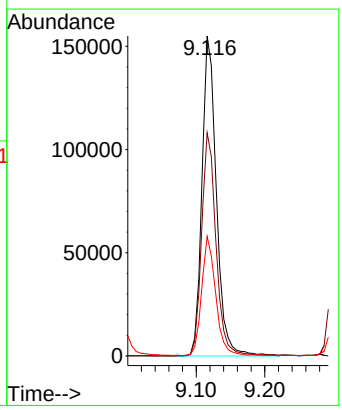


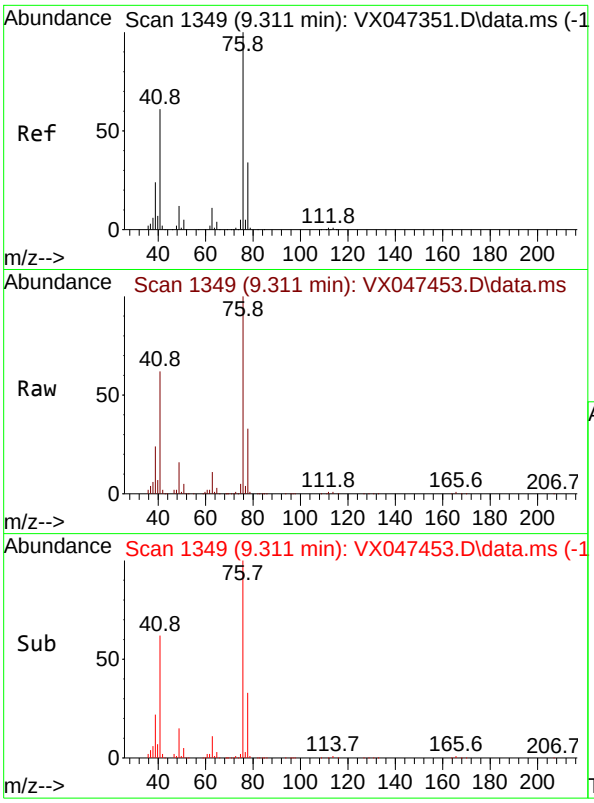


#56
Ethyl methacrylate
Concen: 53.861 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 69 Resp: 227071

Ion	Ratio	Lower	Upper
69	100		
41	69.4	55.3	82.9
39	36.2	30.2	45.2



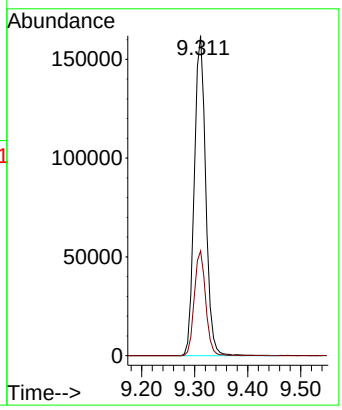


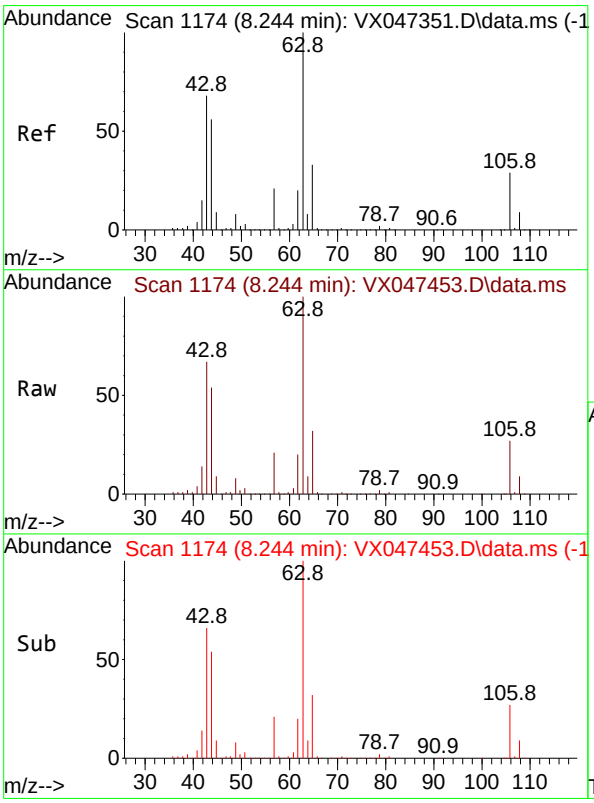
#57
1,3-Dichloropropane
Concen: 49.771 ug/l
RT: 9.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 242512

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.2	39.2

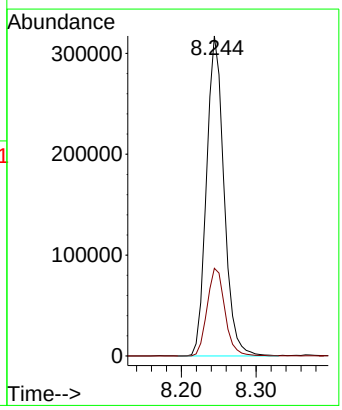


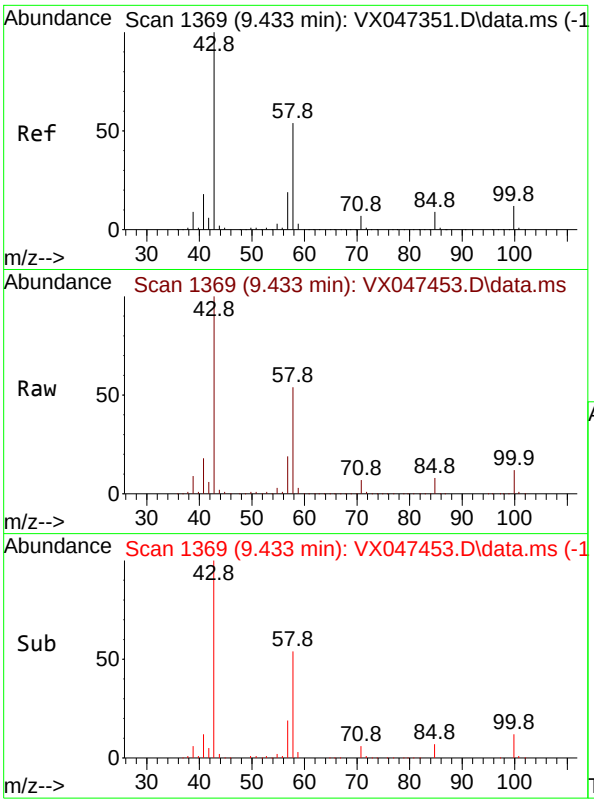


#58
2-Chloroethyl Vinyl ether
Concen: 256.814 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 63 Resp: 517470

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.8	34.2



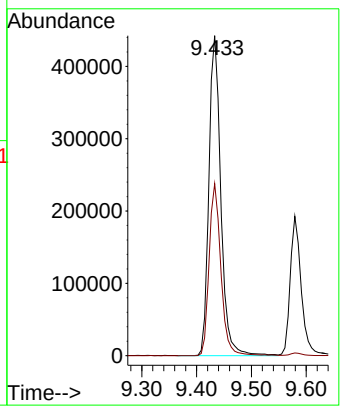


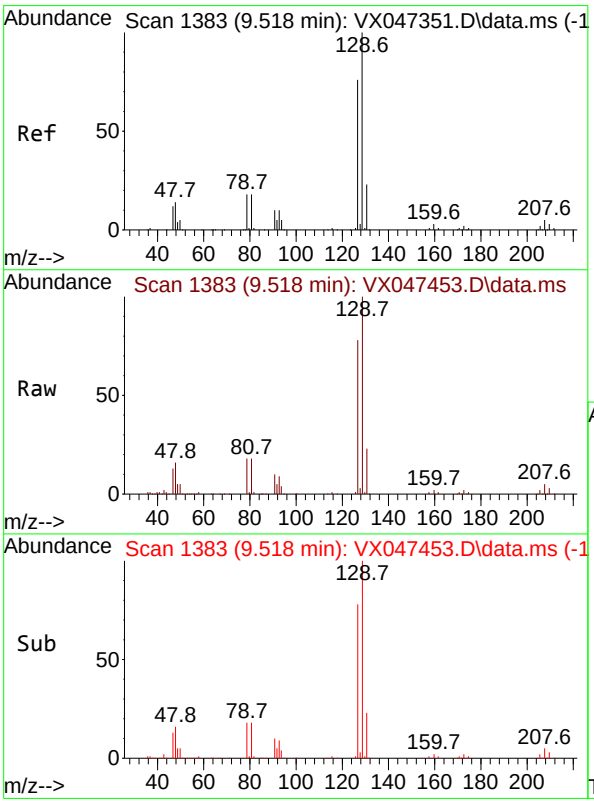
#59
2-Hexanone
Concen: 274.974 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 664708

Ion	Ratio	Lower	Upper
43	100		
58	53.2	26.9	80.7

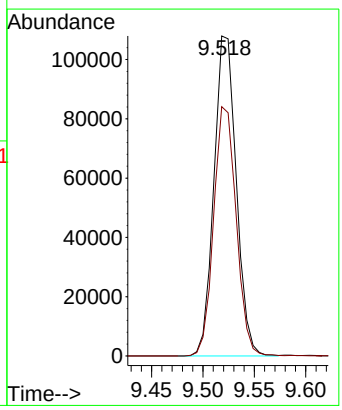


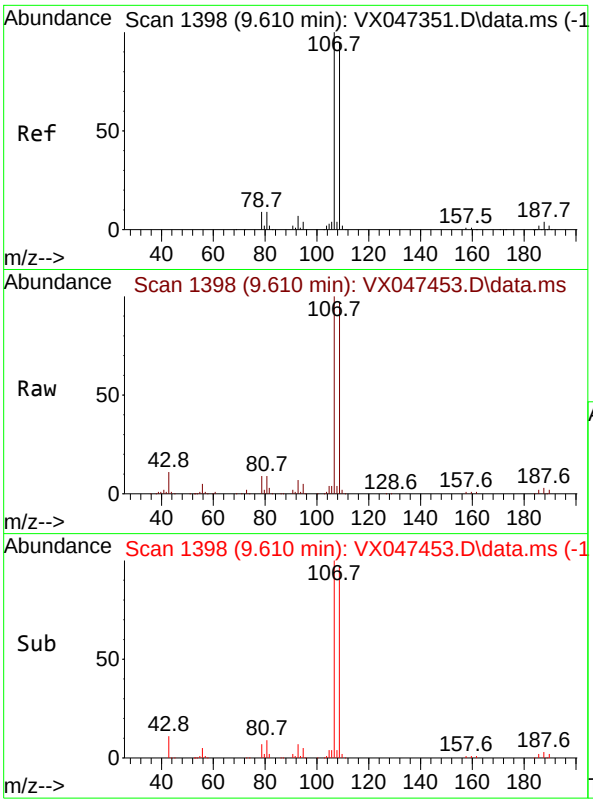


#60
Dibromochloromethane
Concen: 47.975 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:129 Resp: 163031

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.9	116.6



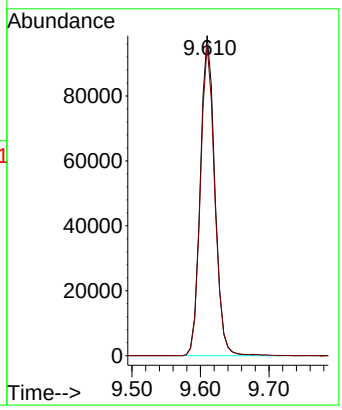


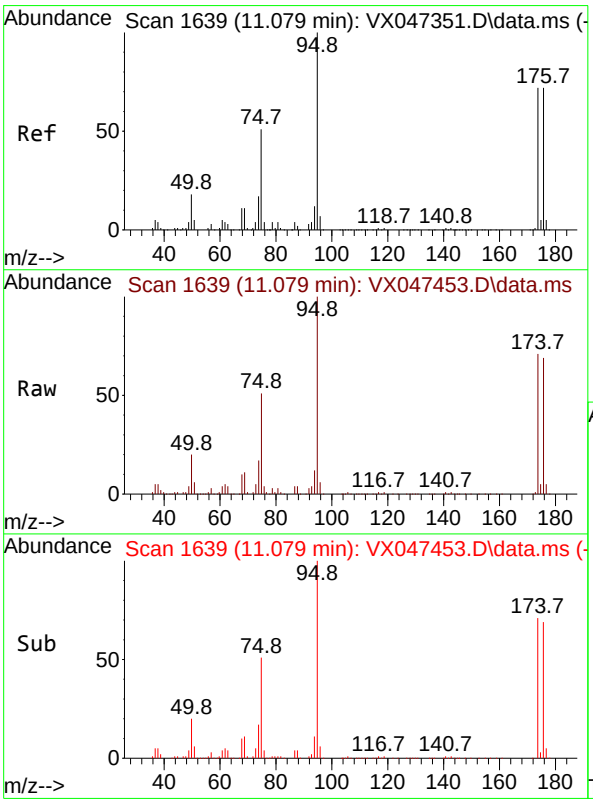
#61
1,2-Dibromoethane
Concen: 49.181 ug/l
RT: 9.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 145018

Ion	Ratio	Lower	Upper
107	100		
109	95.9	76.2	114.2

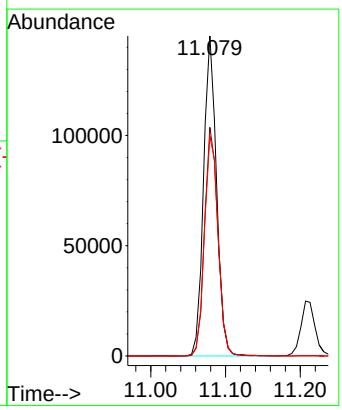


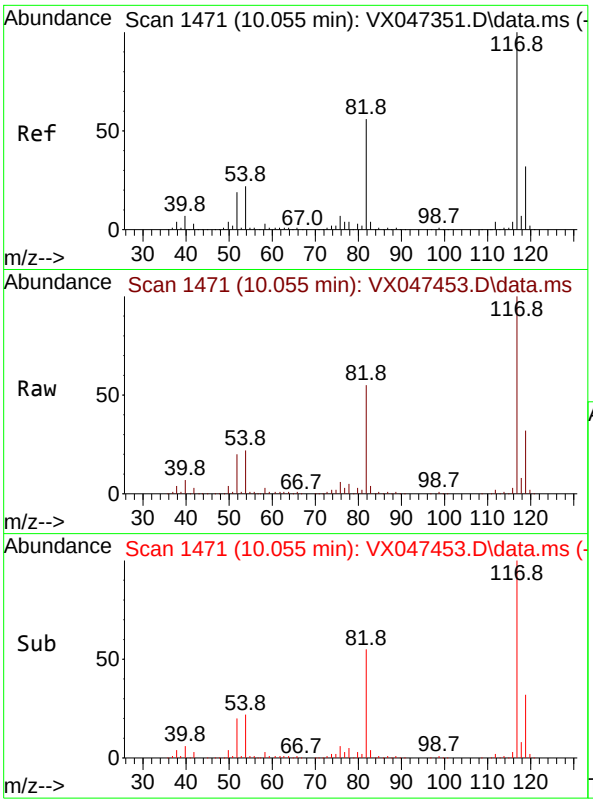


#62
4-Bromofluorobenzene
Concen: 51.281 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 95 Resp: 174471

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	148.0
176	72.3	0.0	145.4



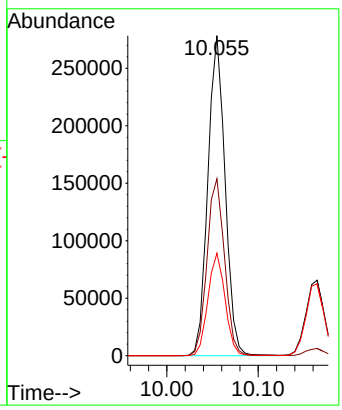


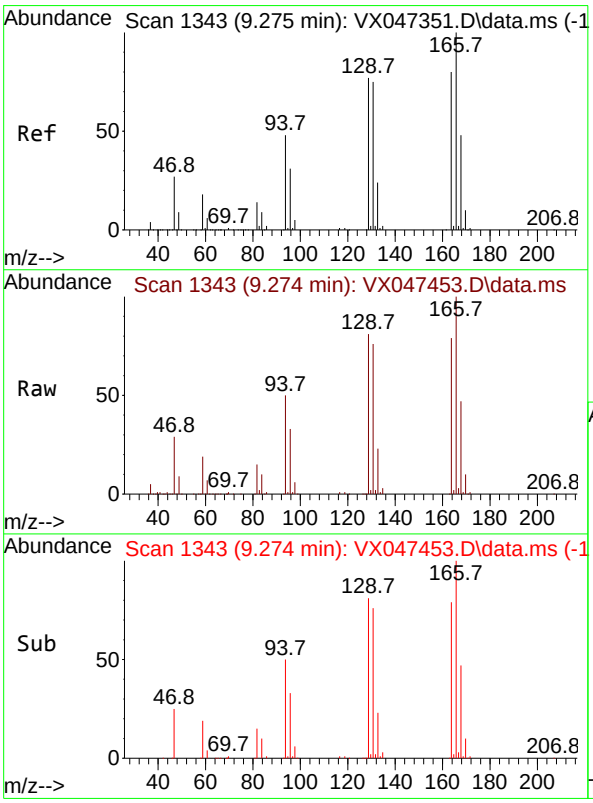
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 362824

Ion	Ratio	Lower	Upper
117	100		
82	55.3	45.0	67.4
119	32.0	25.8	38.8

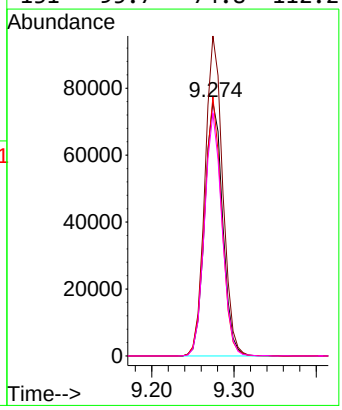


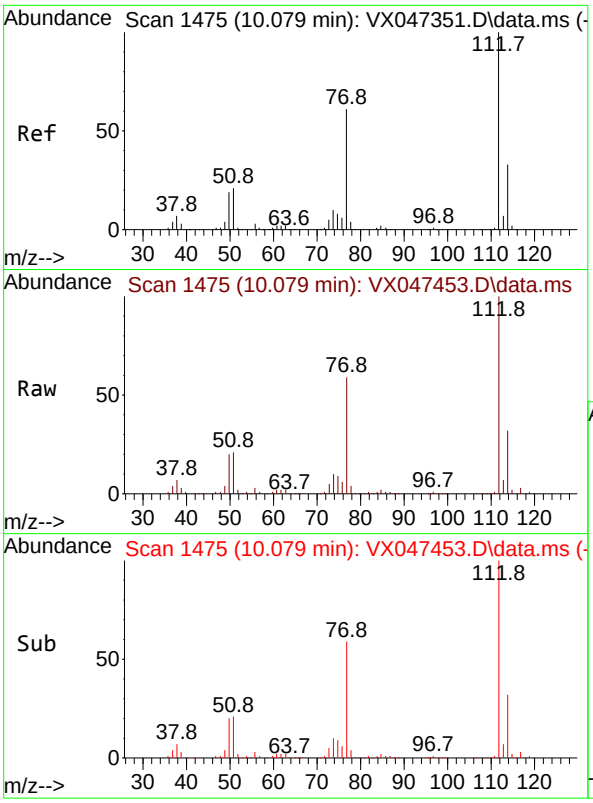


#64
Tetrachloroethene
Concen: 43.671 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:164 Resp: 114609

Ion	Ratio	Lower	Upper
164	100		
166	126.1	100.3	150.5
129	102.1	77.7	116.5
131	95.7	74.8	112.2



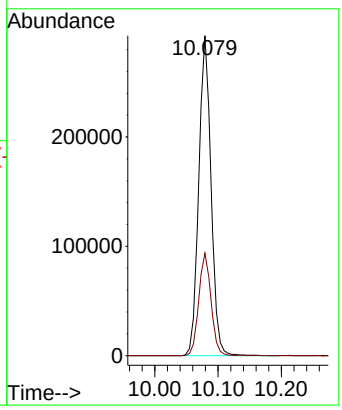


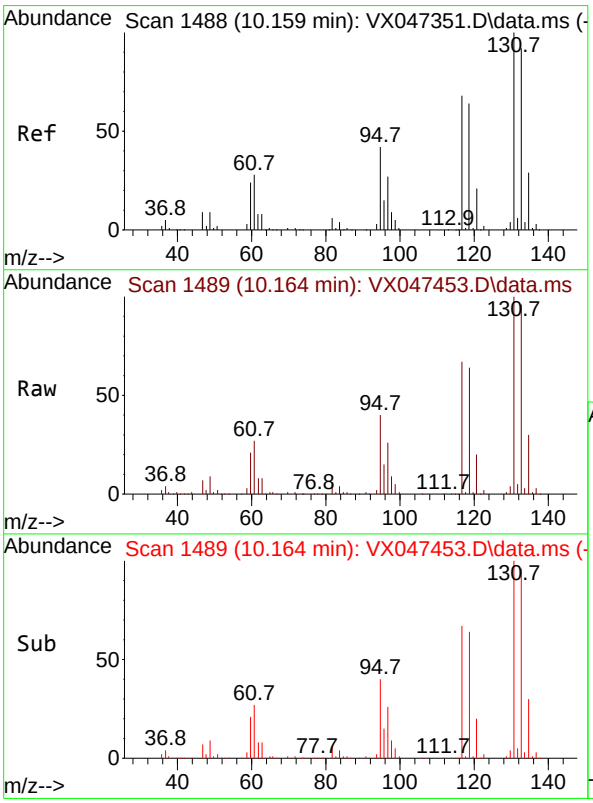
#65
Chlorobenzene
Concen: 45.872 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 395517

Ion	Ratio	Lower	Upper
112	100		
114	32.0	26.4	39.6

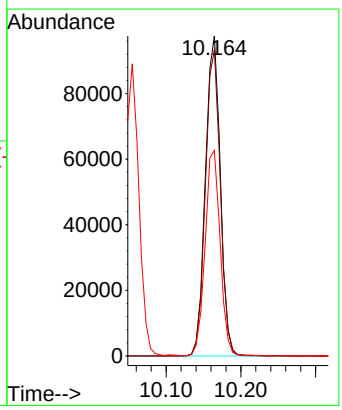


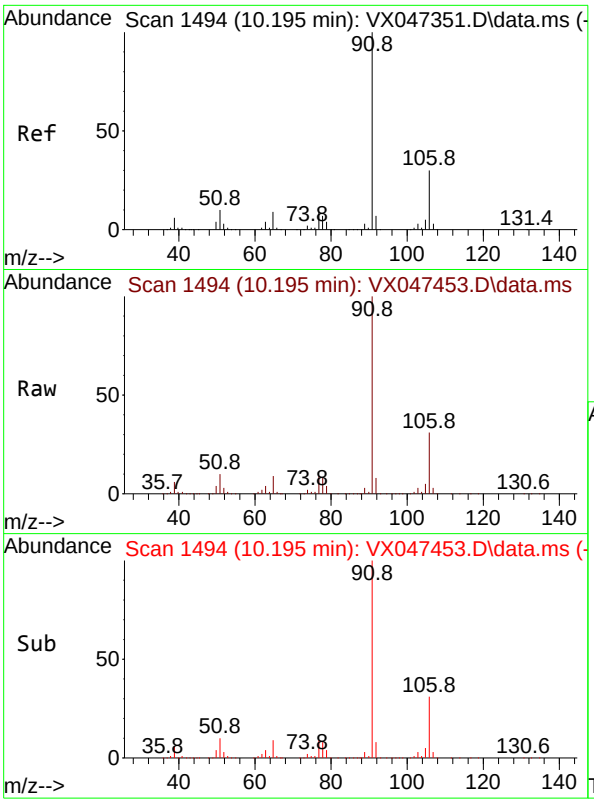


#66
1,1,1,2-Tetrachloroethane
Concen: 46.245 ug/l
RT: 10.164 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:131 Resp: 134787

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.6	142.9
119	64.7	32.3	96.8



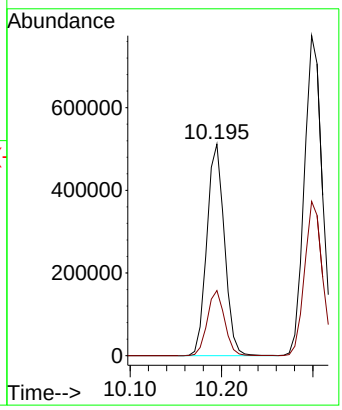


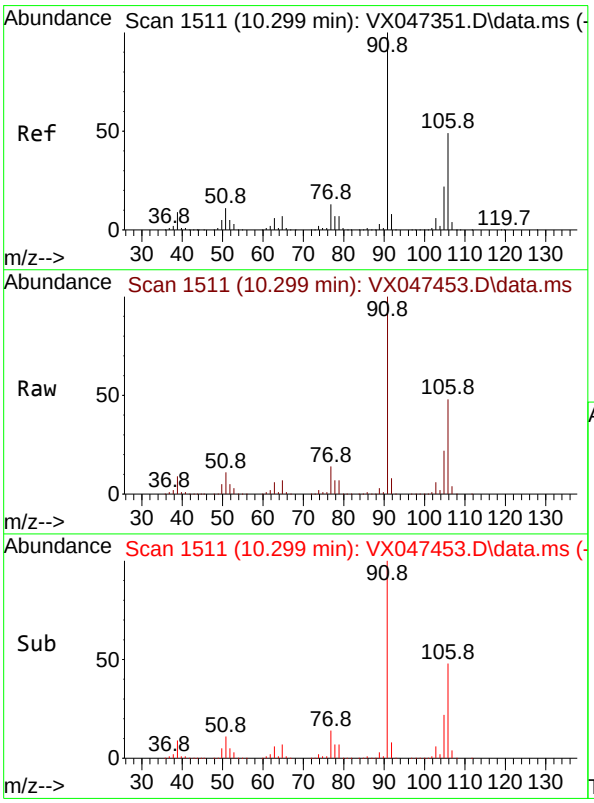
#67
Ethyl Benzene
Concen: 45.975 ug/l
RT: 10.195 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 682262

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.4	36.6

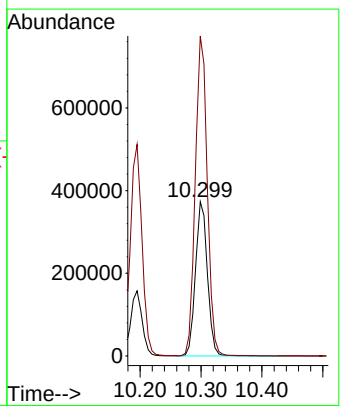


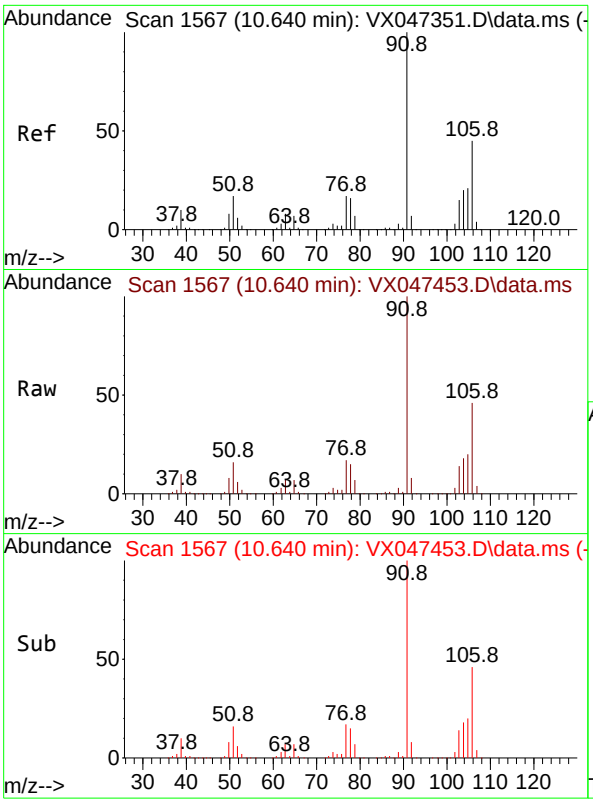


#68
m/p-Xylenes
Concen: 91.376 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:106 Resp: 505624

Ion	Ratio	Lower	Upper
106	100		
91	209.0	164.7	247.1



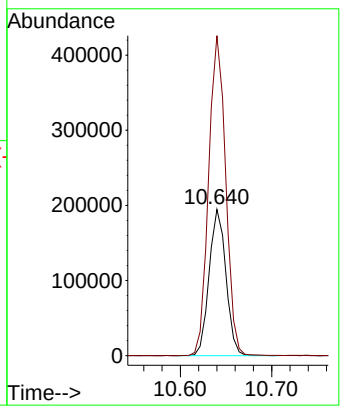


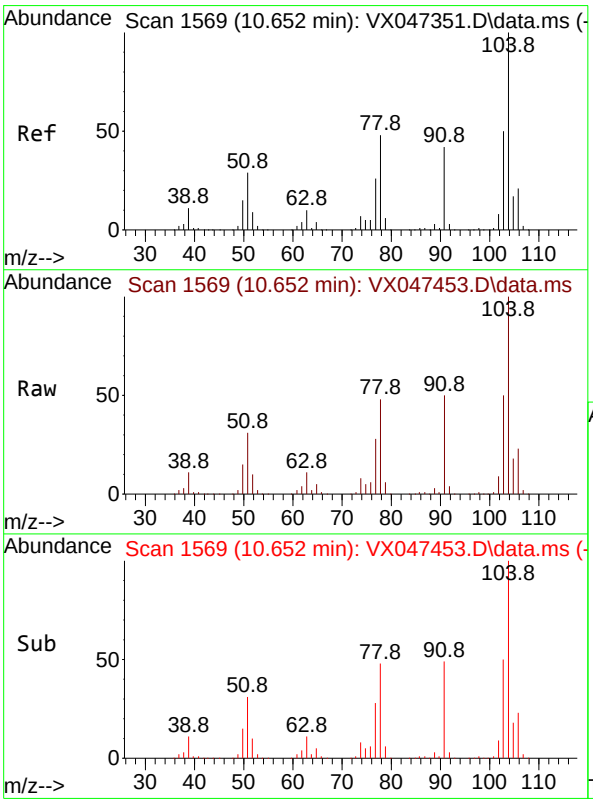
#69
o-Xylene
Concen: 46.690 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 248628

Ion	Ratio	Lower	Upper
106	100		
91	221.6	110.6	331.8

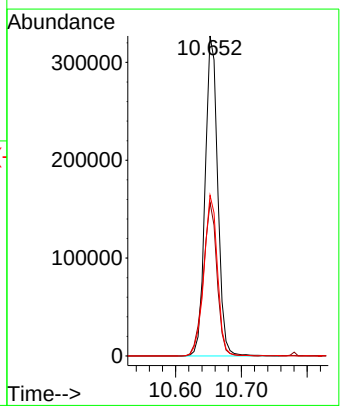


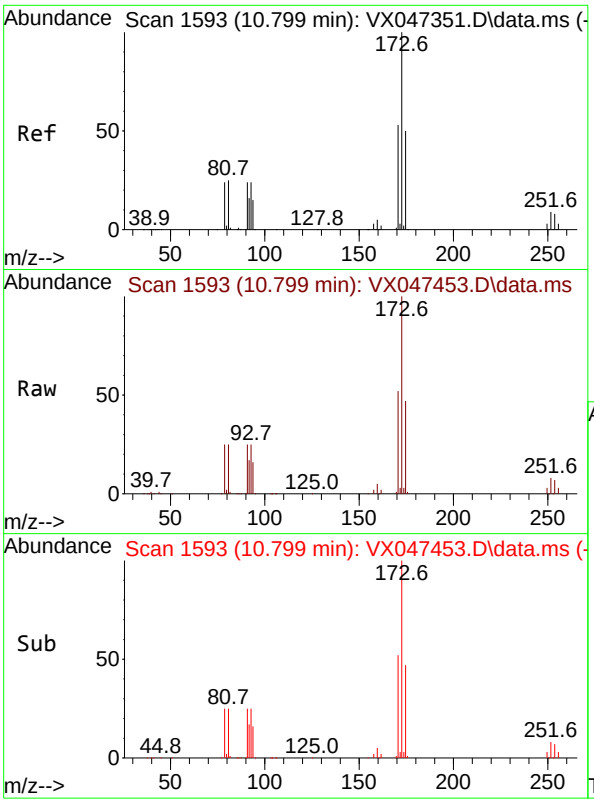


#70
Styrene
Concen: 48.426 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:104 Resp: 435716

Ion	Ratio	Lower	Upper
104	100		
78	52.1	41.8	62.8
103	54.1	43.6	65.4



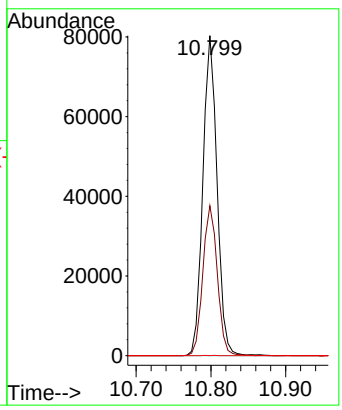


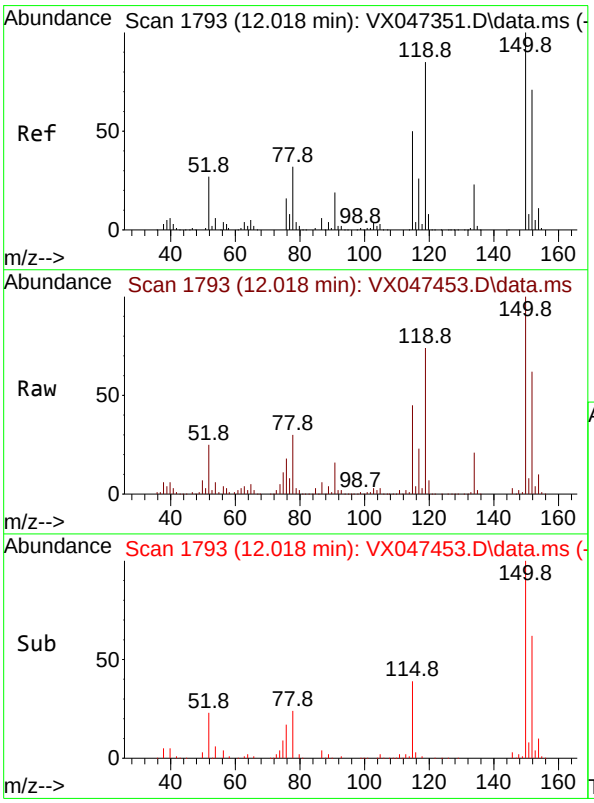
#71
Bromoform
Concen: 48.338 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 105843

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.4	73.4
254	0.0	0.1	0.1#

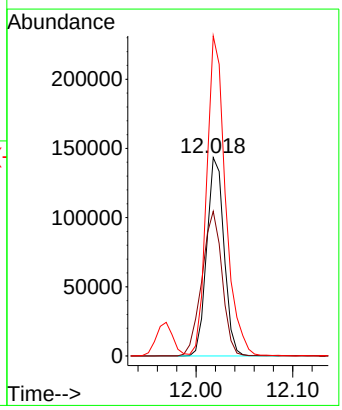


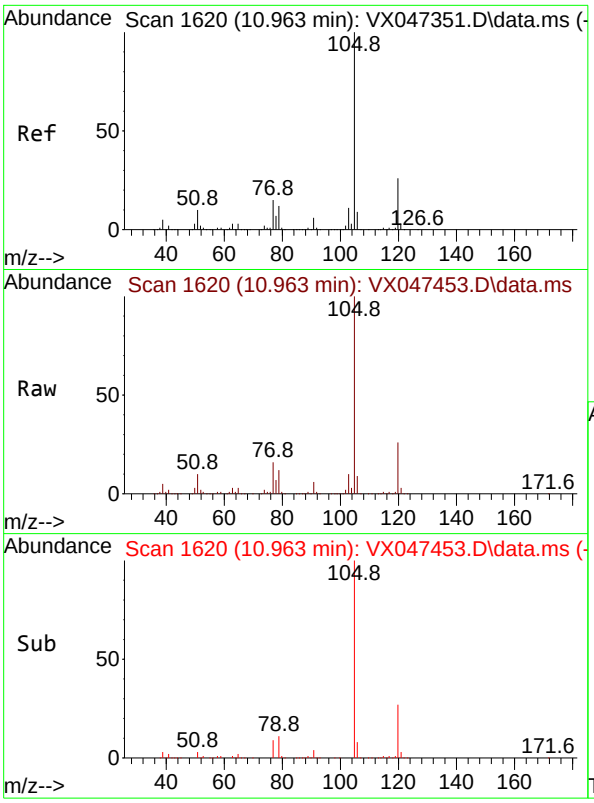


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:152 Resp: 178130

Ion	Ratio	Lower	Upper
152	100		
115	85.4	44.6	133.8
150	175.8	0.0	349.8



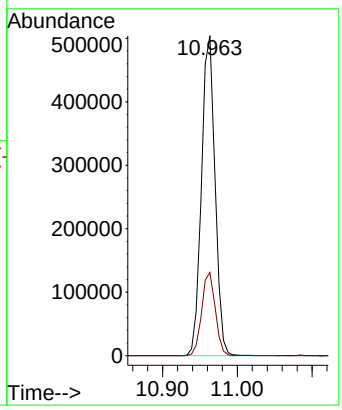


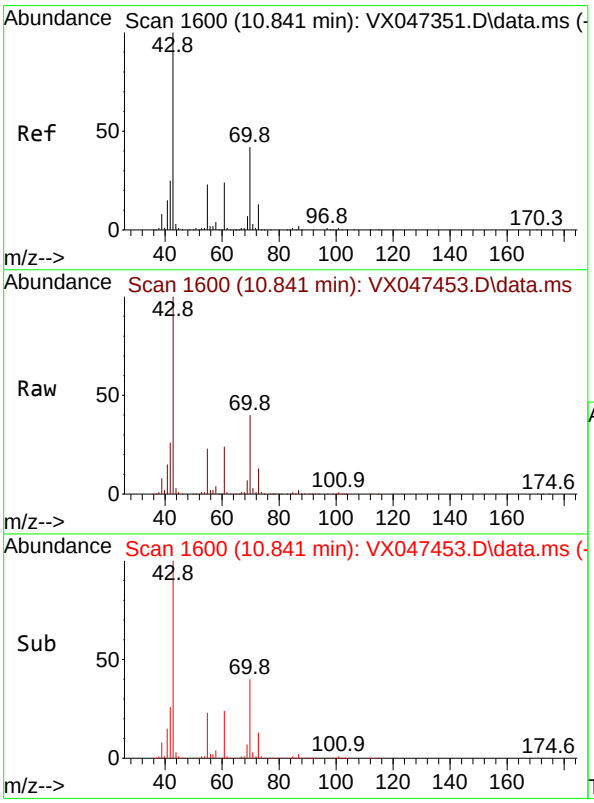
#73
Isopropylbenzene
Concen: 45.592 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 635537

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6

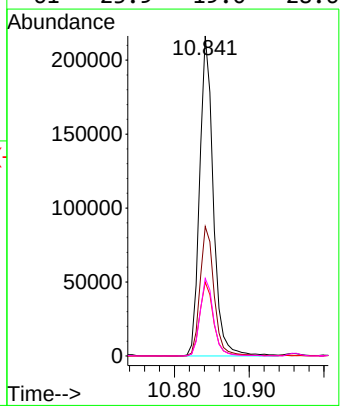


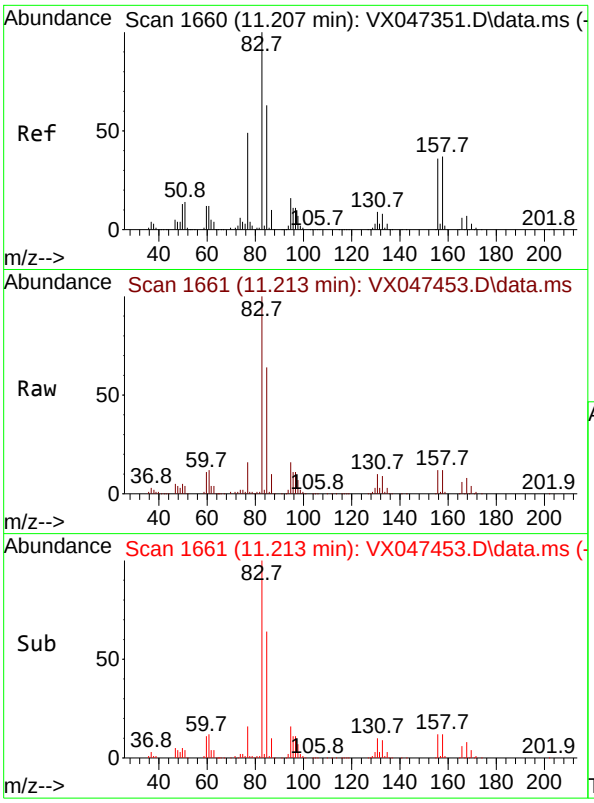


#74
N-amyl acetate
Concen: 51.837 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 43 Resp: 274391

Ion	Ratio	Lower	Upper
43	100		
70	41.4	33.1	49.7
55	23.5	19.0	28.6
61	23.9	19.0	28.6



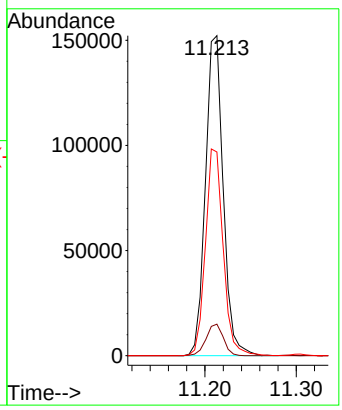


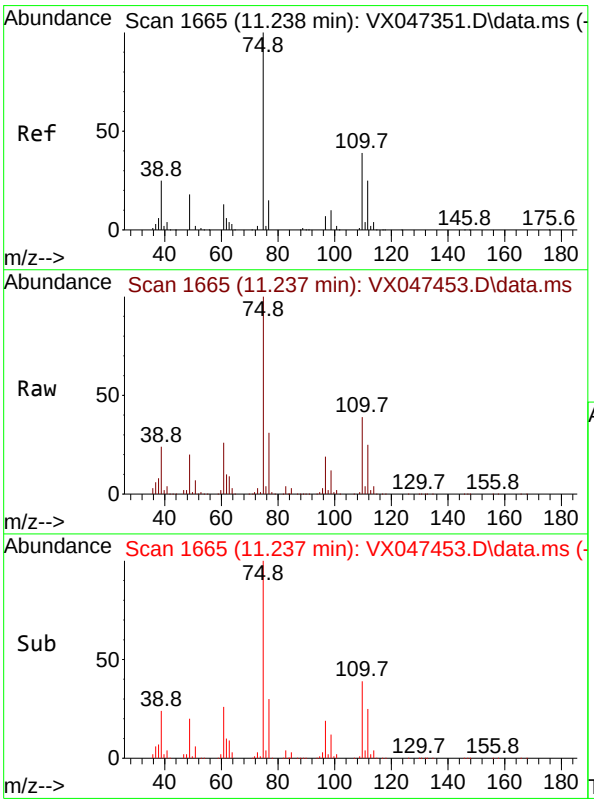
#75
1,1,2,2-Tetrachloroethane
Concen: 50.022 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 204727

Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.0	15.0
85	64.5	31.7	95.1

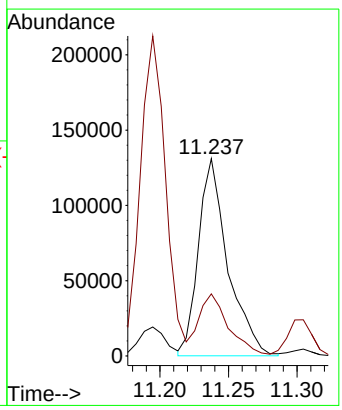


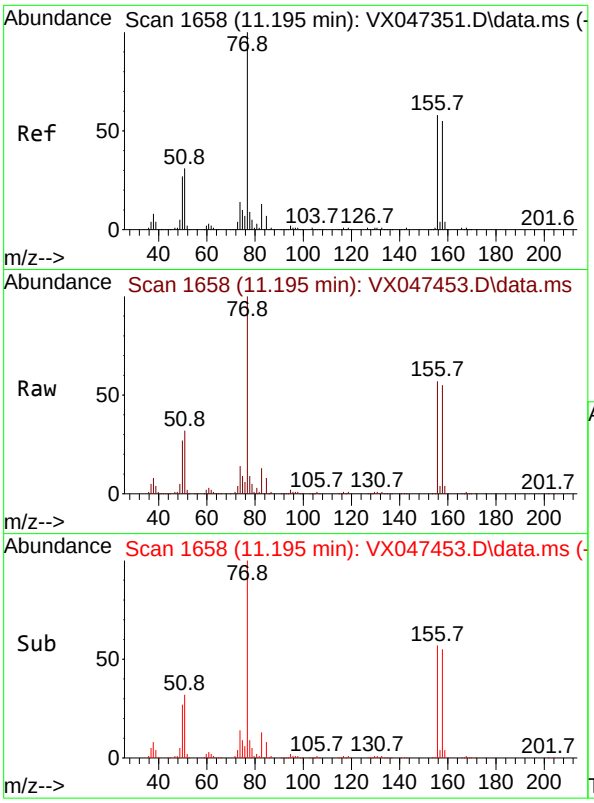


#76
1,2,3-Trichloropropane
Concen: 59.863 ug/l
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 75 Resp: 195580

Ion	Ratio	Lower	Upper
75	100		
77	32.1	19.4	58.2



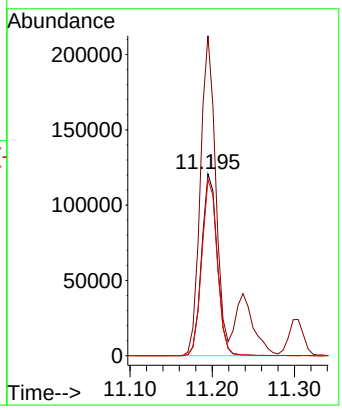


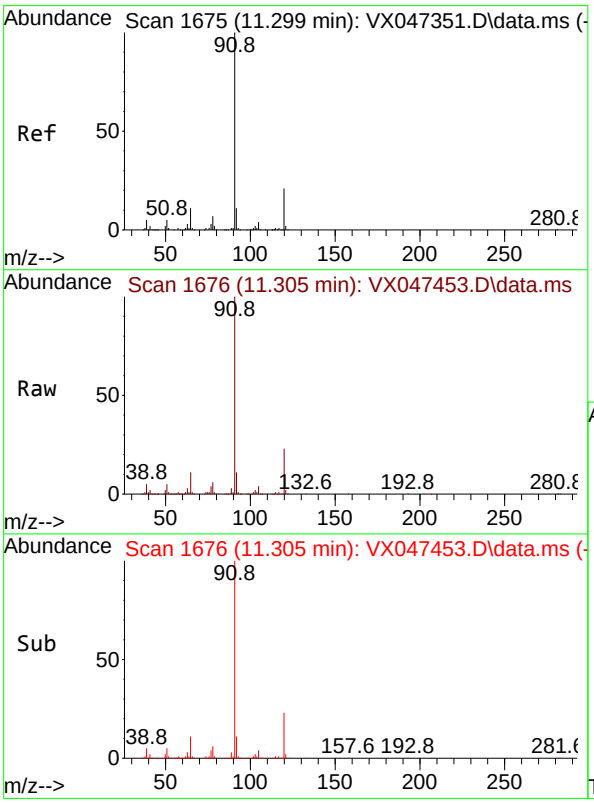
#77
Bromobenzene
Concen: 46.630 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 158725

Ion	Ratio	Lower	Upper
156	100		
77	173.1	86.3	258.9
158	96.9	48.0	144.2

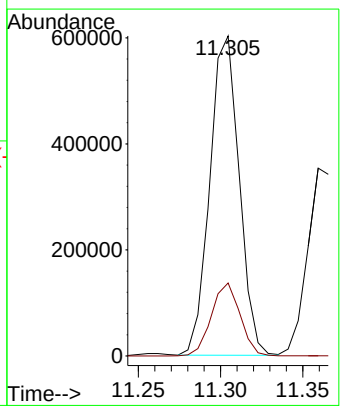


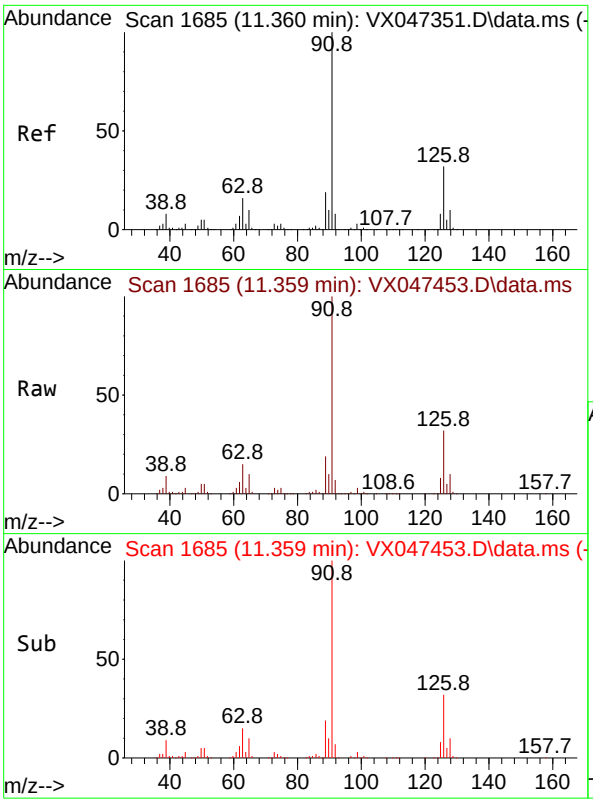


#78
n-propylbenzene
Concen: 44.937 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 91 Resp: 748109

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0



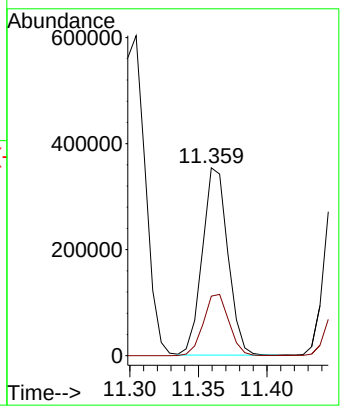


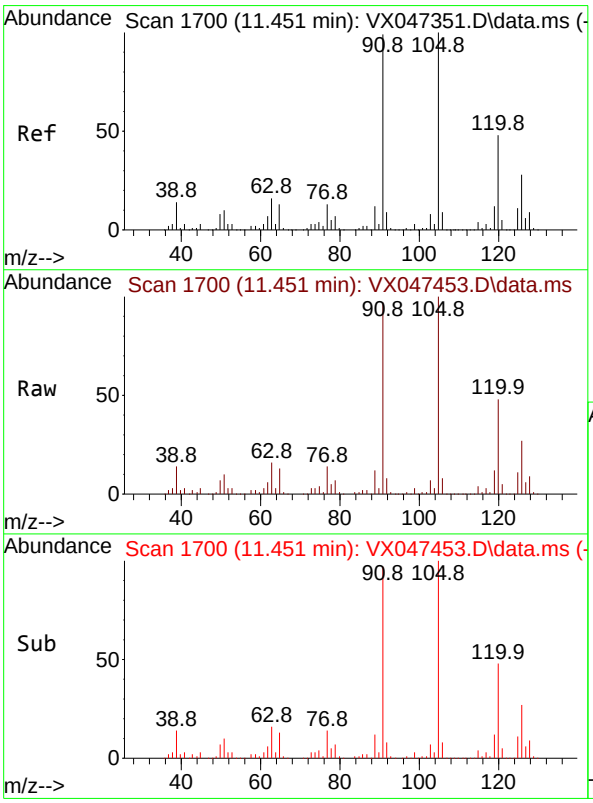
#79
2-Chlorotoluene
Concen: 45.604 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 458958

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.7	50.1

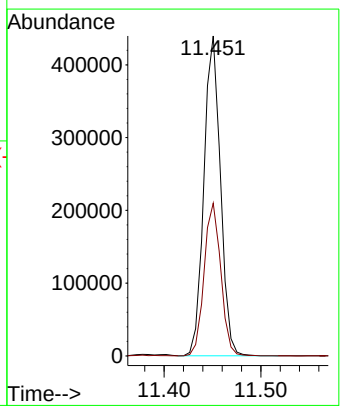


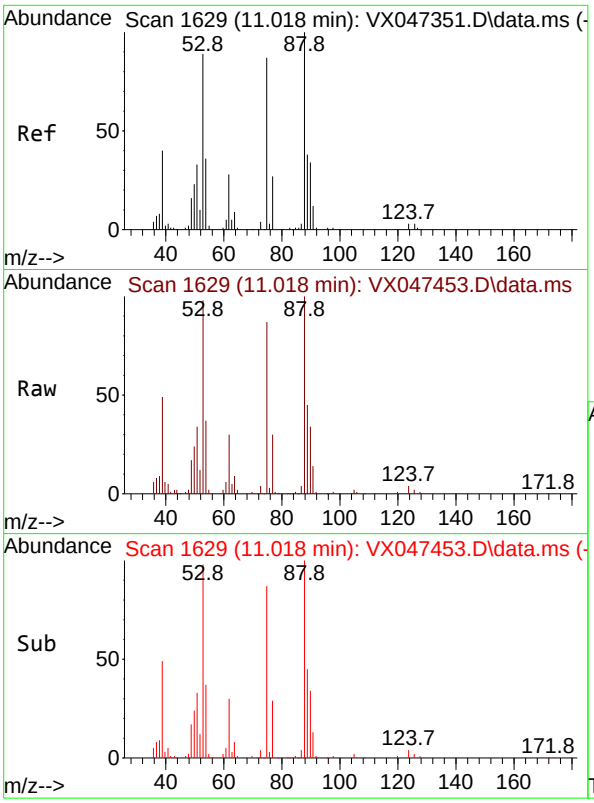


#80
1,3,5-Trimethylbenzene
Concen: 45.721 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:105 Resp: 524391

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.9	71.7



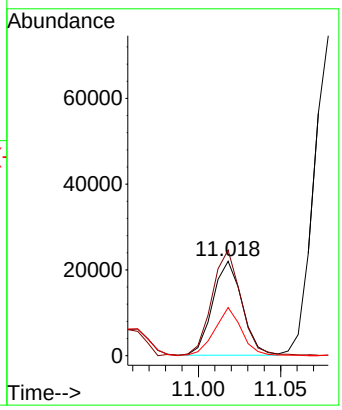


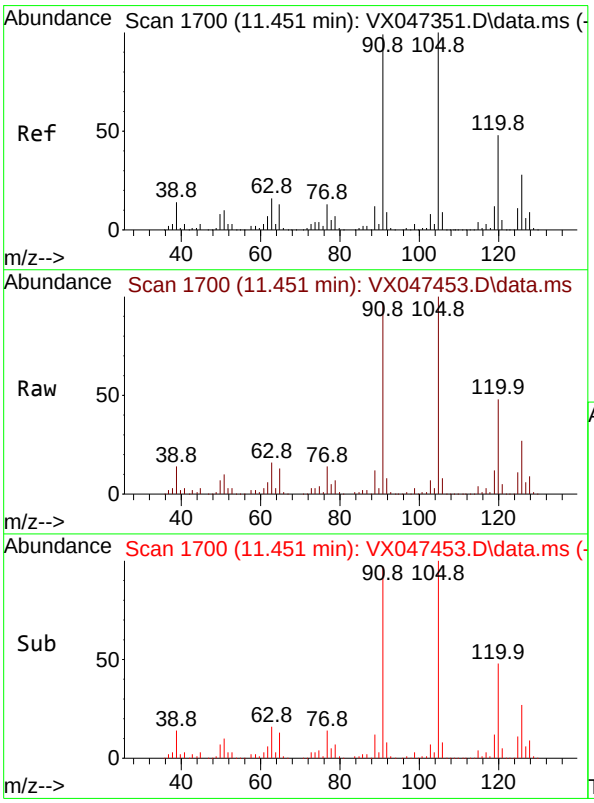
#81
trans-1,4-Dichloro-2-butene
Concen: 38.529 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 27349

Ion	Ratio	Lower	Upper
75	100		
53	111.9	85.2	127.8
89	47.2	36.7	55.1

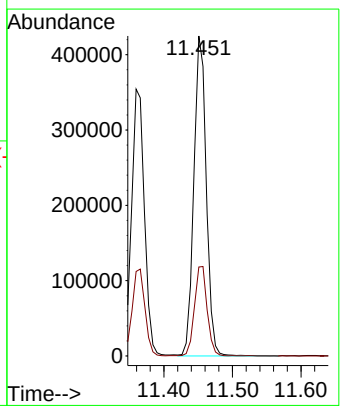


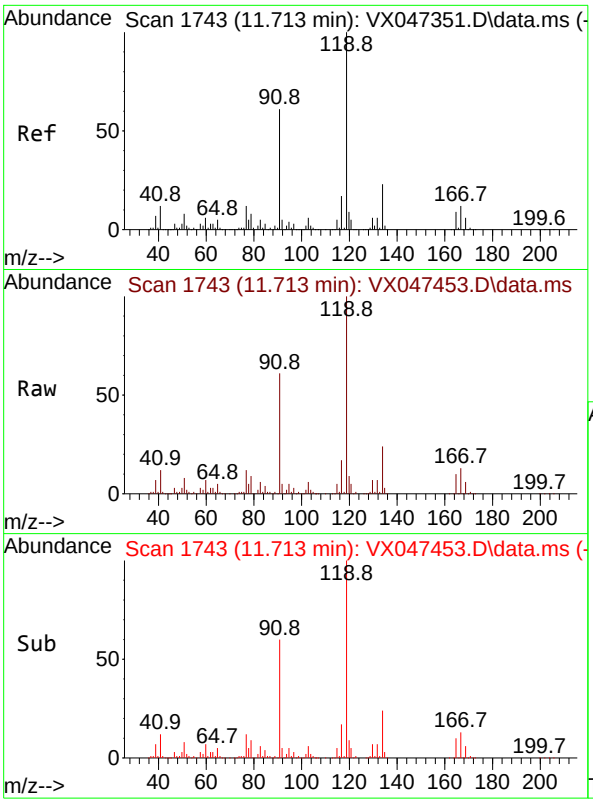


#82
4-Chlorotoluene
Concen: 45.262 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 91 Resp: 536951

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.4	43.0



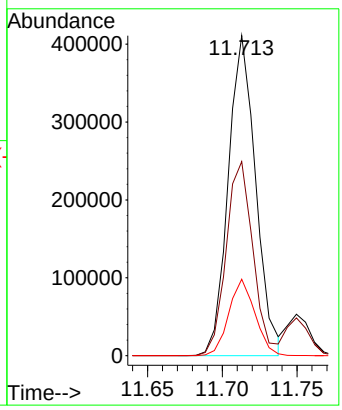


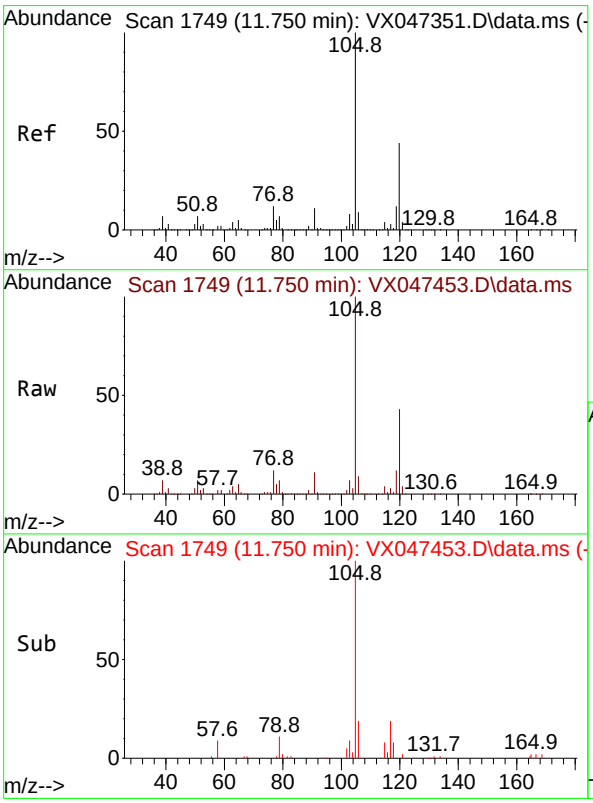
#83
tert-Butylbenzene
Concen: 45.868 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 524851

Ion	Ratio	Lower	Upper
119	100		
91	59.5	29.1	87.4
134	22.8	11.3	33.9

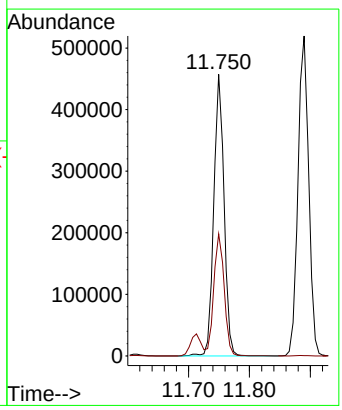


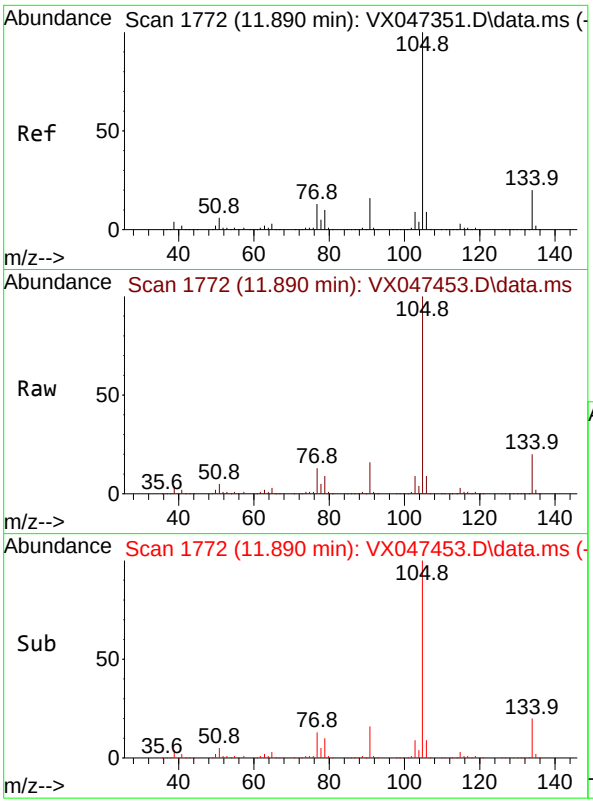


#84
1,2,4-Trimethylbenzene
Concen: 46.554 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:105 Resp: 533947

Ion	Ratio	Lower	Upper
105	100		
120	44.2	21.9	65.7



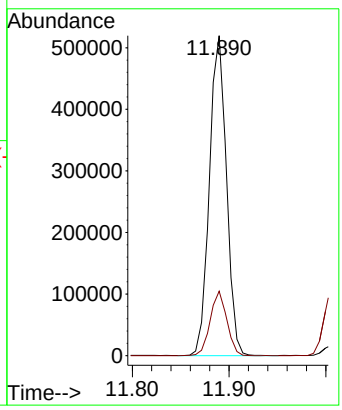


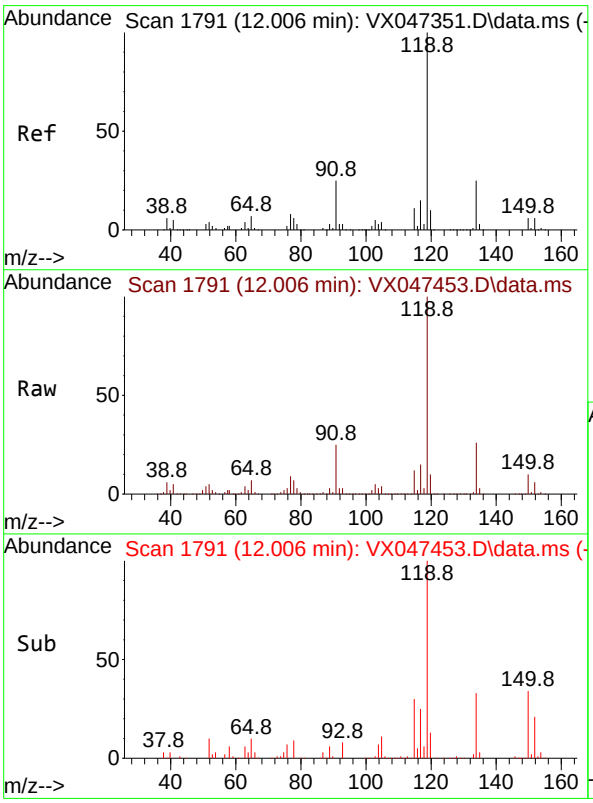
#85
sec-Butylbenzene
Concen: 44.881 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 636533

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

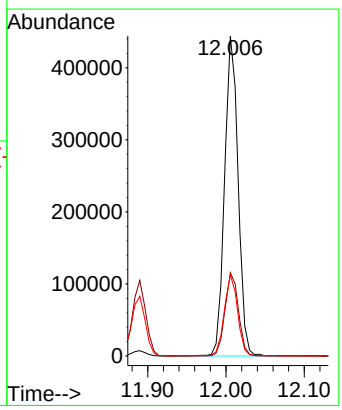


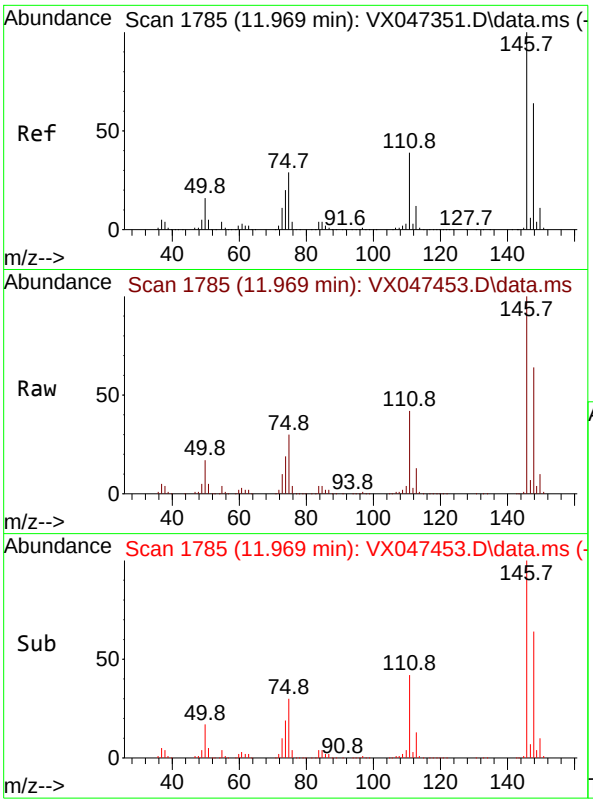


#86
p-Isopropyltoluene
Concen: 44.464 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:119 Resp: 533633

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	24.9	12.4	37.4



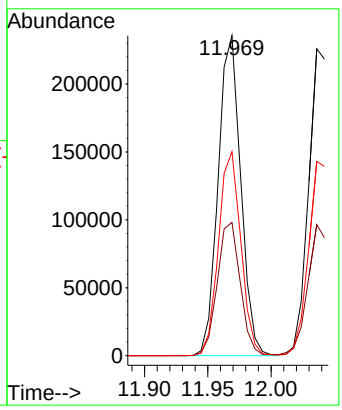


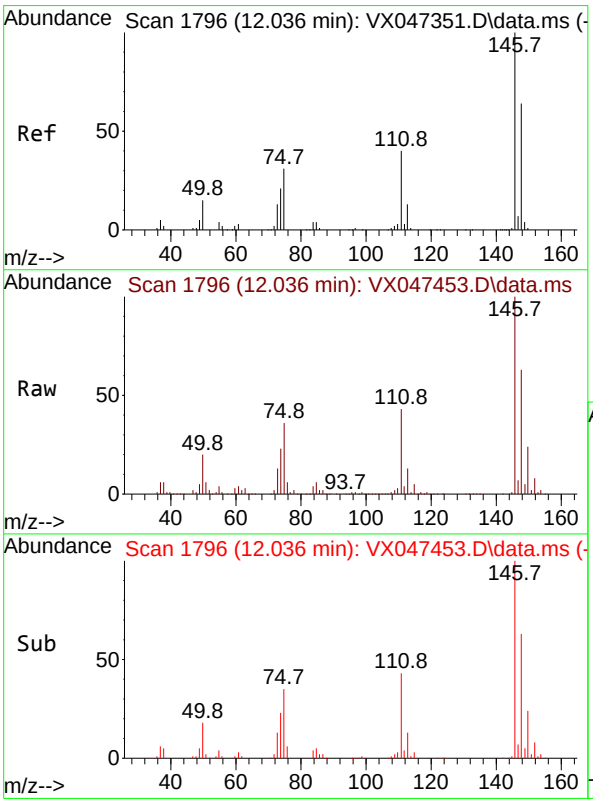
#87
1,3-Dichlorobenzene
Concen: 45.035 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 292853

Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.6	61.8
148	63.1	31.9	95.5

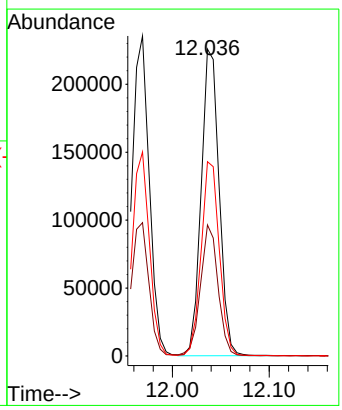


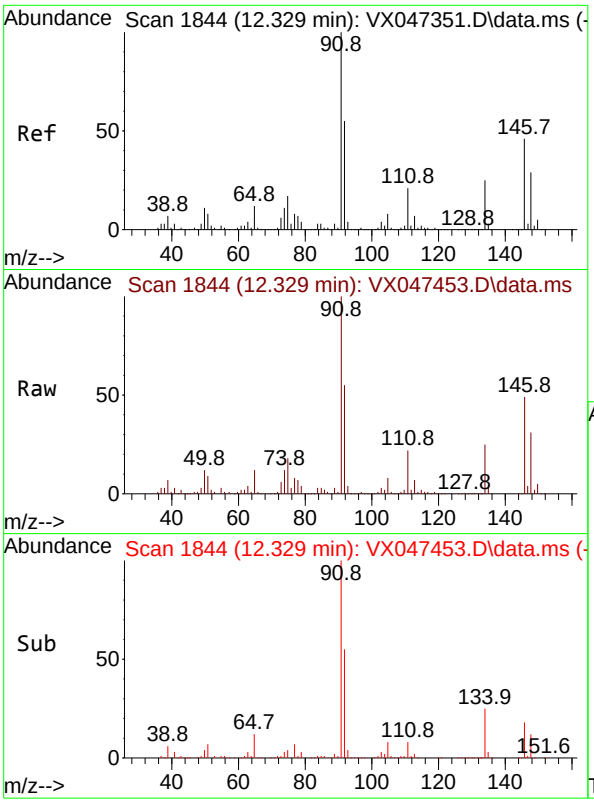


#88
1,4-Dichlorobenzene
Concen: 43.659 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:146 Resp: 292001

Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.4	61.2
148	64.2	31.7	95.1



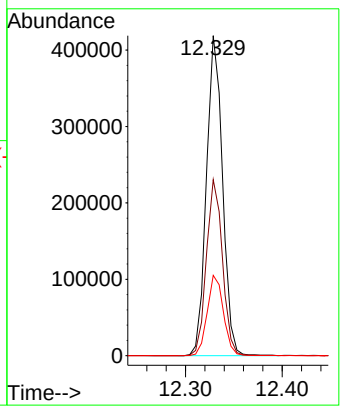


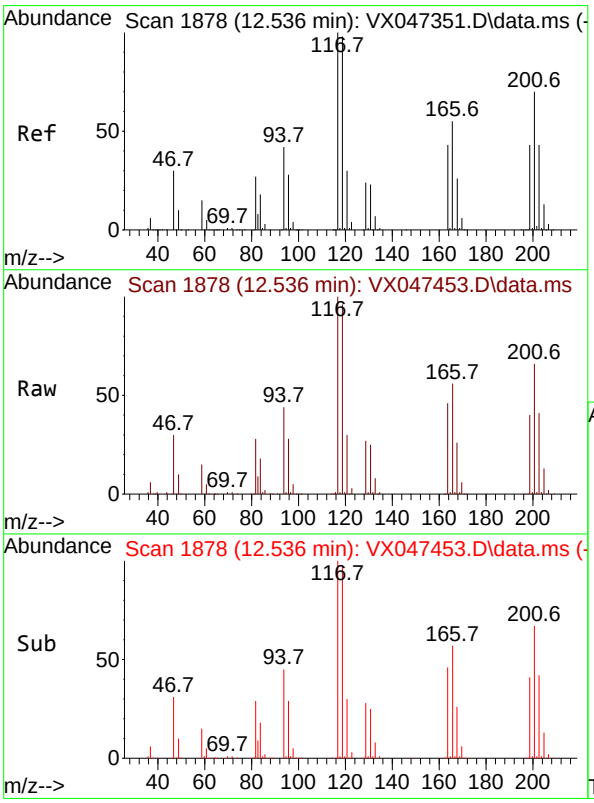
#89
n-Butylbenzene
Concen: 43.388 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 484331

Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.2	81.5
134	25.3	12.6	37.8

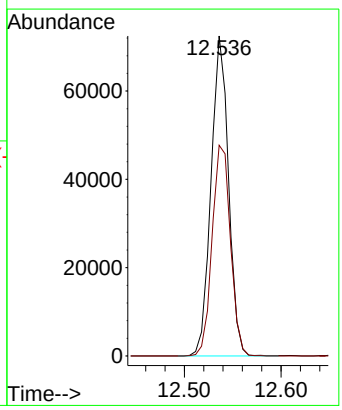


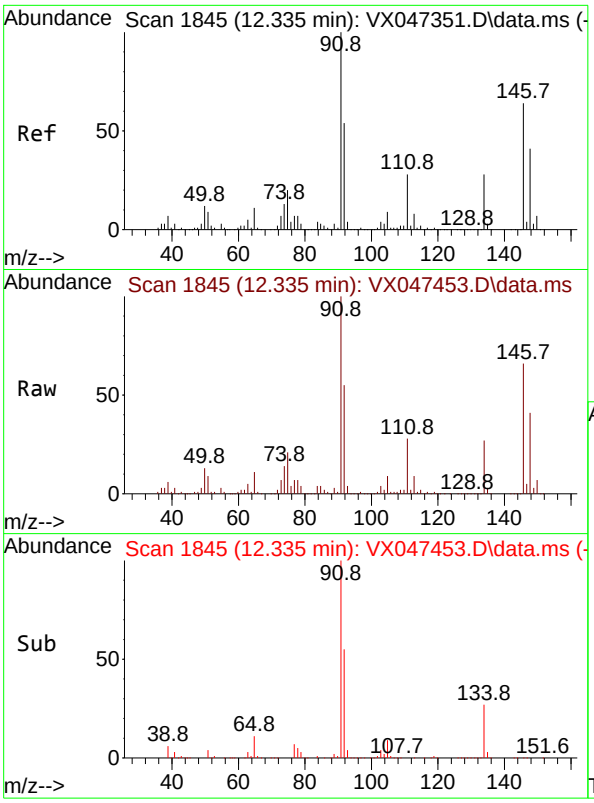


#90
Hexachloroethane
Concen: 43.186 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:117 Resp: 90925

Ion	Ratio	Lower	Upper
117	100		
201	69.1	35.1	105.3



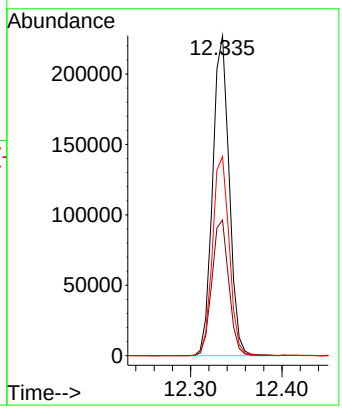


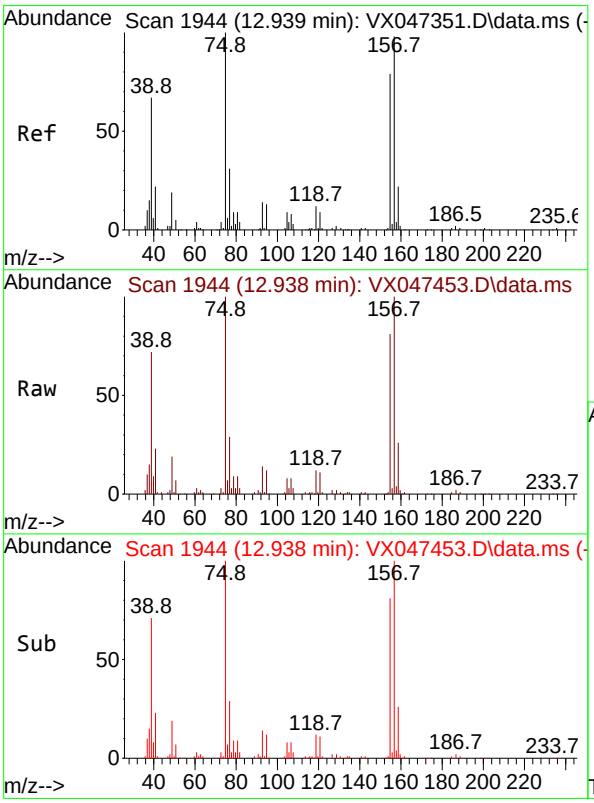
#91
1,2-Dichlorobenzene
Concen: 46.230 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 285344

Ion	Ratio	Lower	Upper
146	100		
111	43.3	22.1	66.1
148	63.0	31.9	95.5

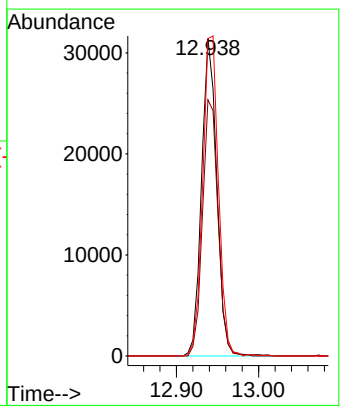


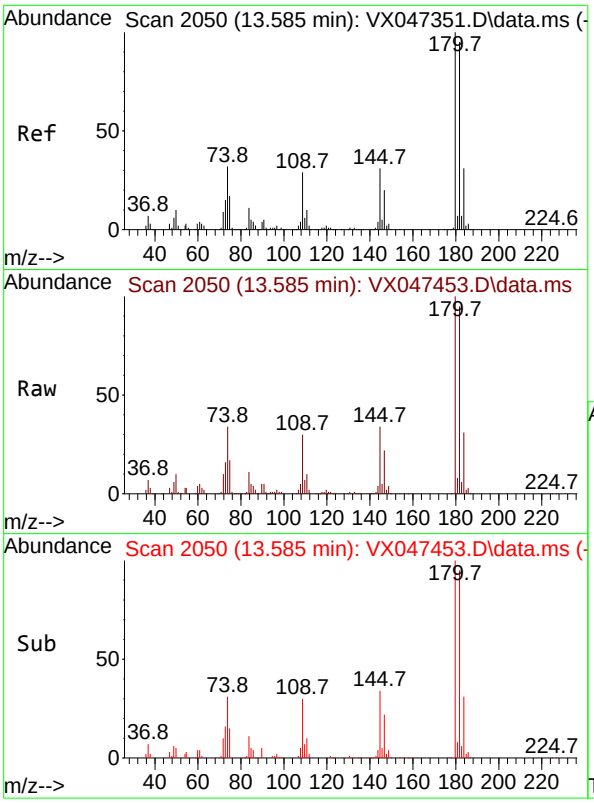


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.127 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion: 75 Resp: 40467

Ion	Ratio	Lower	Upper
75	100		
155	81.8	41.3	123.7
157	104.5	51.5	154.5



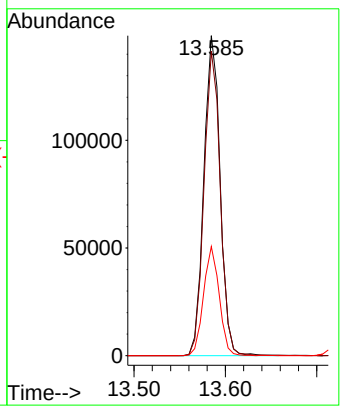


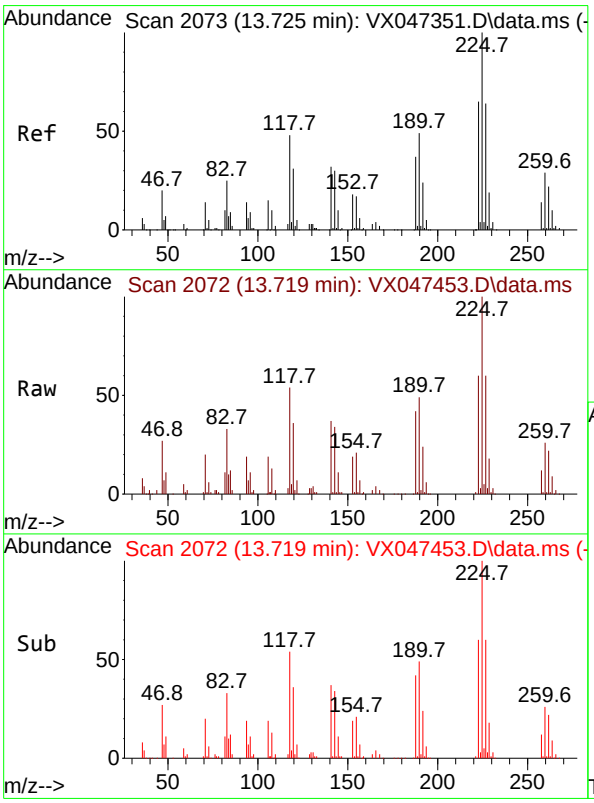
#93
1,2,4-Trichlorobenzene
Concen: 44.264 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 183154

Ion	Ratio	Lower	Upper
180	100		
182	95.0	48.1	144.4
145	32.9	16.2	48.5

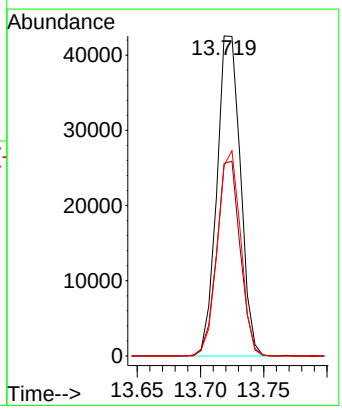


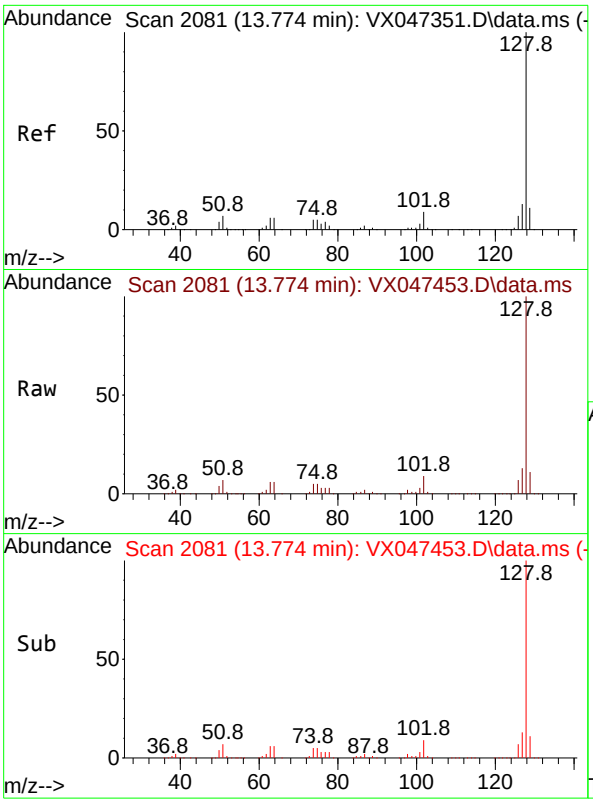


#94
Hexachlorobutadiene
Concen: 37.337 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:225 Resp: 54992

Ion	Ratio	Lower	Upper
225	100		
223	60.9	32.2	96.6
227	62.8	31.6	95.0



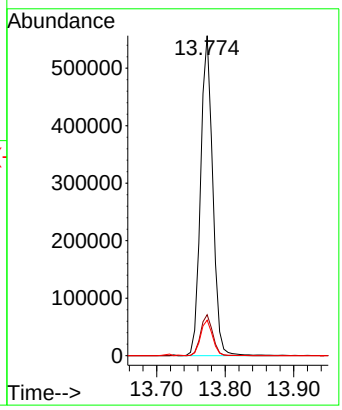


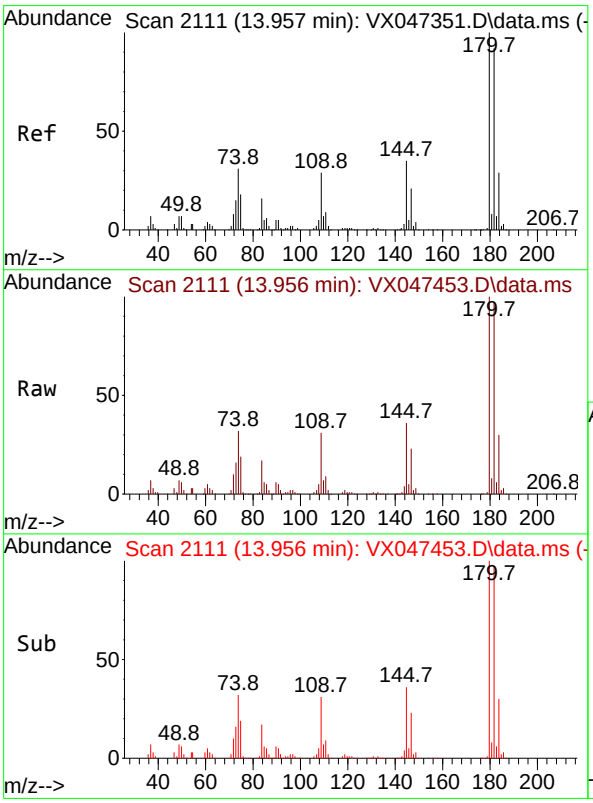
#95
Naphthalene
Concen: 57.969 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

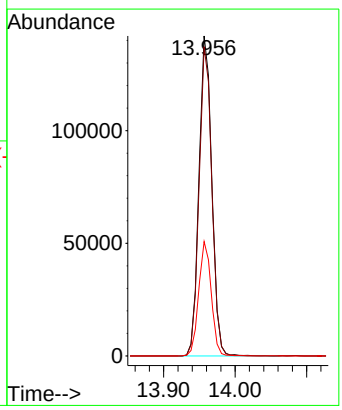
Tgt Ion:128 Resp: 685477

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	11.1	8.7	13.1





#96
1,2,3-Trichlorobenzene
Concen: 45.381 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX047453.D
Acq: 20 Aug 2025 19:01

Tgt Ion:180 Resp: 176999

Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.0	144.2
145	35.0	17.4	52.2