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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : NJ DRINKING WATER PT

ALLIANCE TECHNICAL GROUP, LLC - NEWARK

284 Sheffiled Stree

Suite 1

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q2552

ATTENTION : Mohammad Ahmed

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q2552

Project ID : NJ Drinking Water PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number	Client Sample Number
Q2552-01	WS0725-PT-TURB-WS
Q2552-02	WS0725-PT-TURB-WS
Q2552-03	WS0725-PT-MIN-WS
Q2552-04	WS0725-PT-TM-WS
Q2552-05	WS0725-PT-HG-WS
Q2552-06	WS0725-PT-SIO2-WS
Q2552-07	WS0725-PT-RVOA-WS
Q2552-08	WS0725-PT-UNROVA-WS
Q2552-09	WS0725-PT-THM-WS
Q2552-10	WS0725-PT-ADD-WS
Q2552-11	WS0725-PT-EDBCP-WS

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: 7/25/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Alliance Technical Group, LLC - Newark
Project Name: NJ Drinking Water PT
Project # N/A
Order ID # Q2552
Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:
1 Water sample was received on 07/09/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOCMS Group3. This data package contains results for VOCMS Group3.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_U were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOCMS Group3 was based on method 524.2.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The RPD for {VU0717WBSD01} with File ID: VU063522.D met criteria except for Acetone[21%] due to difference in results of BS and BSD.

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 %RSD is greater than 20% in the Initial Calibration method (524U071625DW.M) Iodomethane this compound is passing on Linear Regression and 1,2-Dibromo-3-Chloropropane this compound is passing on Quadratic Regression

The Continuous Calibration File ID VU063519.D met the requirements except for Acetone is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Sample WS0725-PT-ADD-WS was diluted due to high concentration.

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E. Additional Comments:

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2552 MATRIX: Water

METHOD: 524.2

		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 %RSD is greater than 20% in the Initial Calibration method (524U071625DW.M) Iodomethane this compound is passing on Linear Regression and 1,2-Dibromo-3-Chloropropane this compound is passing on Quadratic Regression The Continuous Calibration File ID VU063519.D met the requirements except for Acetone 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.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The RPD for {VU0717WBSD01} with File ID: VU063522.D met criteria except for Acetone[21%] due to difference in results of BS and BSD.		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

NA NO YES

ADDITIONAL COMMENTS:

Sample WS0725-PT-ADD-WS was diluted due to high concentration.

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2552

	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:** 07/25/2025

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LAB CHRONICLE

OrderID:	Q2552	**OrderDate:**	7/9/2025 3:45:00 PM
Client:	Alliance Technical Group, LLC - Newark	**Project:**	NJ Drinking Water PT
Contact:	Mohammad Ahmed	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2552-07	**WS0725-PT-RVOA-WS**	**Water**			**07/07/25**			**07/09/25**
			VOCMS Group1	524.2			07/17/25	
Q2552-07DL	**WS0725-PT-RVOA-WSDL**	**Water**			**07/07/25**			**07/09/25**
			VOCMS Group1	524.2			07/18/25	
Q2552-08	**WS0725-PT-UNROVA-WS**	**Water**			**07/07/25**			**07/09/25**
			VOCMS Group2	524.2			07/18/25	
Q2552-08DL	**WS0725-PT-UNROVA-WSDL**	**Water**			**07/07/25**			**07/09/25**
			VOCMS Group2	524.2			07/18/25	
Q2552-10	**WS0725-PT-ADD-WS**	**Water**			**07/07/25**			**07/09/25**
			VOCMS Group3	524.2			07/17/25	
Q2552-10DL	**WS0725-PT-ADD-WSDL**	**Water**			**07/07/25**			**07/09/25**
			VOCMS Group3	524.2			07/17/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2552

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**WS0725-PT-ADD-WS**							
Q2552-10	WS0725-PT-ADD-\	Water	1,1,2-Trichloro-1,2,2-trifluoroe	12.8		0.11	0.50	ug/L
Q2552-10	WS0725-PT-ADD-\	Water	tert-Butyl Alcohol	22.9		3.60	10.0	ug/L
Q2552-10	WS0725-PT-ADD-\	Water	Methyl tert-Butyl Ether	43.7	E	0.11	0.50	ug/L
Q2552-10	WS0725-PT-ADD-\	Water	n-propylbenzene	46.1	E	0.42	0.50	ug/L
Q2552-10	WS0725-PT-ADD-\	Water	Isopropyl Ether	54.5	E	0.14	0.50	ug/L
			Total Voc :	180				
			Total Concentration:	180				
Client ID:	**WS0725-PT-ADD-WSDL**							
Q2552-10DL	WS0725-PT-ADD-\	Water	1,1,2-Trichloro-1,2,2-trifluoroe	13.2	D	0.55	2.50	ug/L
Q2552-10DL	WS0725-PT-ADD-\	Water	tert-Butyl Alcohol	26.9	JD	18.0	50.0	ug/L
Q2552-10DL	WS0725-PT-ADD-\	Water	Methyl tert-Butyl Ether	46.2	D	0.55	2.50	ug/L
Q2552-10DL	WS0725-PT-ADD-\	Water	n-propylbenzene	47.6	D	2.10	2.50	ug/L
Q2552-10DL	WS0725-PT-ADD-\	Water	Isopropyl Ether	54.8	D	0.70	2.50	ug/L
			Total Voc :	189				
			Total Concentration:	189				

QC SUMMARY

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Surrogate Summary

SDG No.: Q2552

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW524.2

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2552-10	WS0725-PT-ADD-WS	1,2-Dichlorobenzene-d4	1	1.00	100		70	130
		4-Bromofluorobenzene	1	0.93	93		70	130
Q2552-10DL	WS0725-PT-ADD-WSDL	1,2-Dichlorobenzene-d4	1	1.00	100		70	130
		4-Bromofluorobenzene	1	1.00	101		70	130
VU0717WBL01	VU0717WBL01	1,2-Dichlorobenzene-d4	1	0.94	94		70	130
		4-Bromofluorobenzene	1	1.07	107		70	130
VU0717WBS01	VU0717WBS01	1,2-Dichlorobenzene-d4	1	0.94	94		70	130
		4-Bromofluorobenzene	1	1.00	100		70	130
VU0717WBSD0	VU0717WBSD01	1,2-Dichlorobenzene-d4	1	1.10	110		70	130
		4-Bromofluorobenzene	1	1.03	103		70	130

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2552 **Analytical Method:** SW524.2

Client: Alliance Technical Group, LLC - Newa **Datafile :** VU063521.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VU0717WBS01	Dichlorodifluoromethane	2	1.90	ug/L	95			70	130	
	Chloromethane	2	2.20	ug/L	110			70	130	
	Vinyl Chloride	2	2.00	ug/L	100			70	130	
	Bromomethane	2	2.30	ug/L	115			70	130	
	Chloroethane	2	2.00	ug/L	100			70	130	
	Tetrahydrofuran	4	4.70	ug/L	117			70	130	
	Trichlorofluoromethane	2	2.10	ug/L	105			70	130	
	1,1,2-Trichloro-1,2,2-trifluoroethane	2	2.00	ug/L	100			70	130	
	tert-Butyl Alcohol	20	20.3	ug/L	102			70	130	
	Diethyl Ether	2	2.10	ug/L	105			70	130	
	1,1-Dichloroethene	2	2.10	ug/L	105			70	130	
	Acrylonitrile	4	4.00	ug/L	100			70	130	
	Acetone	10	12.8	ug/L	128			70	130	
	Carbon disulfide	2	1.80	ug/L	90			70	130	
	Methyl tert-butyl Ether	2	2.10	ug/L	105			70	130	
	Methyl acrylate	2	1.90	ug/L	95			70	130	
	Methylene Chloride	2	2.30	ug/L	115			70	130	
	trans-1,2-Dichloroethene	2	2.00	ug/L	100			70	130	
	1,1-Dichloroethane	2	2.10	ug/L	105			70	130	
	Cyclohexane	2	2.10	ug/L	105			70	130	
	2-Butanone	10	11.2	ug/L	112			70	130	
	Carbon Tetrachloride	2	1.90	ug/L	95			70	130	
	2,2-Dichloropropane	2	2.00	ug/L	100			70	130	
	cis-1,2-Dichloroethene	2	2.10	ug/L	105			70	130	
	Bromochloromethane	2	2.10	ug/L	105			70	130	
	Chloroform	2	2.10	ug/L	105			70	130	
	1,1,1-Trichloroethane	2	2.00	ug/L	100			70	130	
	Methylcyclohexane	2	1.80	ug/L	90			70	130	
	1,1-Dichloropropene	2	2.10	ug/L	105			70	130	
	Propionitrile	10	10.4	ug/L	104			70	130	
	Benzene	2	2.20	ug/L	110			70	130	
	1,2-Dichloroethane	2	2.20	ug/L	110			70	130	
	Trichloroethene	2	1.80	ug/L	90			70	130	
	1,2-Dichloropropane	2	1.90	ug/L	95			70	130	
	1-Chlorobutane	2	2.10	ug/L	105			70	130	
	Dibromomethane	2	1.80	ug/L	90			70	130	
	Bromodichloromethane	2	1.80	ug/L	90			70	130	
	4-Methyl-2-Pentanone	10	9.70	ug/L	97			70	130	
	Toluene	2	1.90	ug/L	95			70	130	
	t-1,3-Dichloropropene	2	1.60	ug/L	80			70	130	
	cis-1,3-Dichloropropene	2	1.70	ug/L	85			70	130	
	1,1,2-Trichloroethane	2	2.00	ug/L	100			70	130	
	1,3-Dichloropropane	2	2.00	ug/L	100			70	130	
	2-Hexanone	10	10.2	ug/L	102			70	130	
	Dibromochloromethane	2	1.80	ug/L	90			70	130	
	1,2-Dibromoethane	2	1.90	ug/L	95			70	130	
	Tetrachloroethene	2	1.90	ug/L	95			70	130	
	Chlorobenzene	2	1.90	ug/L	95			70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2552 **Analytical Method:** SW524.2

Client: Alliance Technical Group, LLC - Newa **Datafile :** VU063521.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VU0717WBS01	1,1,1,2-Tetrachloroethane	2	1.70	ug/L	85			70	130	
	Hexachloroethane	2	1.60	ug/L	80			70	130	
	Ethyl Benzene	2	1.90	ug/L	95			70	130	
	m/p-Xylenes	4	3.80	ug/L	95			70	130	
	o-Xylene	2	2.00	ug/L	100			70	130	
	Styrene	2	1.90	ug/L	95			70	130	
	Bromoform	2	1.60	ug/L	80			70	130	
	Isopropylbenzene	2	2.00	ug/L	100			70	130	
	1,1,2,2-Tetrachloroethane	2	1.90	ug/L	95			70	130	
	1,2,3-Trichloropropane	2	1.90	ug/L	95			70	130	
	Bromobenzene	2	1.90	ug/L	95			70	130	
	N-propylbenzene	2	2.00	ug/L	100			70	130	
	2-Chlorotoluene	2	2.00	ug/L	100			70	130	
	1,3,5-Trimethylbenzene	2	1.90	ug/L	95			70	130	
	4-Chlorotoluene	2	2.00	ug/L	100			70	130	
	tert-Butylbenzene	2	1.90	ug/L	95			70	130	
	1,2,4-Trimethylbenzene	2	1.90	ug/L	95			70	130	
	Sec-butylbenzene	2	2.00	ug/L	100			70	130	
	p-Isopropyltoluene	2	2.00	ug/L	100			70	130	
	1,3-Dichlorobenzene	2	1.90	ug/L	95			70	130	
	1,4-Dichlorobenzene	2	1.90	ug/L	95			70	130	
	n-Butylbenzene	2	2.00	ug/L	100			70	130	
	1,2-Dichlorobenzene	2	1.90	ug/L	95			70	130	
	1,2-Dibromo-3-Chloropropane	2	1.70	ug/L	85			70	130	
	1,2,4-Trichlorobenzene	2	1.90	ug/L	95			70	130	
	Hexachlorobutadiene	2	1.90	ug/L	95			70	130	
	Naphthalene	2	1.80	ug/L	90			70	130	
	1,2,3-Trichlorobenzene	2	1.80	ug/L	90			70	130	
	Iodomethane	2	1.80	ug/L	90			70	130	
	Allyl Chloride	2	2.00	ug/L	100			70	130	
	Methacrylonitrile	2	1.90	ug/L	95			70	130	
	Isopropyl Ether	2	2.10	ug/L	105			70	130	
	Methyl methacrylate	4	3.50	ug/L	88			70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2552 **Analytical Method:** SW524.2

Client: Alliance Technical Group, LLC - Newa **Datafile :** VU063522.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VU0717WBSD01	Dichlorodifluoromethane	2	2.00	ug/L	100	5		70	130	20
	Chloromethane	2	2.20	ug/L	110	0		70	130	20
	Vinyl Chloride	2	2.10	ug/L	105	5		70	130	20
	Bromomethane	2	2.30	ug/L	115	0		70	130	20
	Chloroethane	2	2.10	ug/L	105	5		70	130	20
	Tetrahydrofuran	4	4.10	ug/L	103	13		70	130	20
	Trichlorofluoromethane	2	2.10	ug/L	105	0		70	130	20
	1,1,2-Trichloro-1,2,2-trifluoroethane	2	2.20	ug/L	110	10		70	130	20
	tert-Butyl Alcohol	20	21.0	ug/L	105	3		70	130	20
	Diethyl Ether	2	2.20	ug/L	110	5		70	130	20
	1,1-Dichloroethene	2	2.10	ug/L	105	0		70	130	20
	Acrylonitrile	4	4.20	ug/L	105	5		70	130	20
	Acetone	10	10.4	ug/L	104	21	*	70	130	20
	Carbon disulfide	2	1.90	ug/L	95	5		70	130	20
	Methyl tert-butyl Ether	2	2.20	ug/L	110	5		70	130	20
	Methyl acrylate	2	2.00	ug/L	100	5		70	130	20
	Methylene Chloride	2	2.30	ug/L	115	0		70	130	20
	trans-1,2-Dichloroethene	2	2.10	ug/L	105	5		70	130	20
	1,1-Dichloroethane	2	2.20	ug/L	110	5		70	130	20
	Cyclohexane	2	2.20	ug/L	110	5		70	130	20
	2-Butanone	10	10.5	ug/L	105	6		70	130	20
	Carbon Tetrachloride	2	2.00	ug/L	100	5		70	130	20
	2,2-Dichloropropane	2	2.00	ug/L	100	0		70	130	20
	cis-1,2-Dichloroethene	2	2.10	ug/L	105	0		70	130	20
	Bromochloromethane	2	2.10	ug/L	105	0		70	130	20
	Chloroform	2	2.20	ug/L	110	5		70	130	20
	1,1,1-Trichloroethane	2	2.10	ug/L	105	5		70	130	20
	Methylcyclohexane	2	1.90	ug/L	95	5		70	130	20
	1,1-Dichloropropene	2	2.20	ug/L	110	5		70	130	20
	Propionitrile	10	11.4	ug/L	114	9		70	130	20
	Benzene	2	1.80	ug/L	90	20		70	130	20
	1,2-Dichloroethane	2	1.80	ug/L	90	20		70	130	20
	Trichloroethene	2	1.90	ug/L	95	5		70	130	20
	1,2-Dichloropropane	2	2.00	ug/L	100	5		70	130	20
	1-Chlorobutane	2	2.00	ug/L	100	5		70	130	20
	Dibromomethane	2	2.00	ug/L	100	11		70	130	20
	Bromodichloromethane	2	1.80	ug/L	90	0		70	130	20
	4-Methyl-2-Pentanone	10	10.1	ug/L	101	4		70	130	20
	Toluene	2	2.00	ug/L	100	5		70	130	20
	t-1,3-Dichloropropene	2	1.70	ug/L	85	6		70	130	20
	cis-1,3-Dichloropropene	2	1.80	ug/L	90	6		70	130	20
	1,1,2-Trichloroethane	2	2.10	ug/L	105	5		70	130	20
	1,3-Dichloropropane	2	2.10	ug/L	105	5		70	130	20
	2-Hexanone	10	10.3	ug/L	103	1		70	130	20
	Dibromochloromethane	2	1.80	ug/L	90	0		70	130	20
	1,2-Dibromoethane	2	2.00	ug/L	100	5		70	130	20
	Tetrachloroethene	2	2.00	ug/L	100	5		70	130	20
	Chlorobenzene	2	2.00	ug/L	100	5		70	130	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2552 **Analytical Method:** SW524.2

Client: Alliance Technical Group, LLC - Newa **Datafile :** VU063522.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VU0717WBSD01	1,1,1,2-Tetrachloroethane	2	1.80	ug/L	90	6		70	130	20
	Hexachloroethane	2	1.70	ug/L	85	6		70	130	20
	Ethyl Benzene	2	2.00	ug/L	100	5		70	130	20
	m/p-Xylenes	4	4.00	ug/L	100	5		70	130	20
	o-Xylene	2	2.00	ug/L	100	0		70	130	20
	Styrene	2	2.00	ug/L	100	5		70	130	20
	Bromoform	2	1.60	ug/L	80	0		70	130	20
	Isopropylbenzene	2	2.10	ug/L	105	5		70	130	20
	1,1,2,2-Tetrachloroethane	2	2.00	ug/L	100	5		70	130	20
	1,2,3-Trichloropropane	2	1.70	ug/L	85	11		70	130	20
	Bromobenzene	2	2.00	ug/L	100	5		70	130	20
	N-propylbenzene	2	2.00	ug/L	100	0		70	130	20
	2-Chlorotoluene	2	2.00	ug/L	100	0		70	130	20
	1,3,5-Trimethylbenzene	2	2.00	ug/L	100	5		70	130	20
	4-Chlorotoluene	2	2.00	ug/L	100	0		70	130	20
	tert-Butylbenzene	2	2.00	ug/L	100	5		70	130	20
	1,2,4-Trimethylbenzene	2	2.00	ug/L	100	5		70	130	20
	Sec-butylbenzene	2	2.00	ug/L	100	0		70	130	20
	p-Isopropyltoluene	2	2.00	ug/L	100	0		70	130	20
	1,3-Dichlorobenzene	2	2.00	ug/L	100	5		70	130	20
	1,4-Dichlorobenzene	2	2.00	ug/L	100	5		70	130	20
	n-Butylbenzene	2	2.10	ug/L	105	5		70	130	20
	1,2-Dichlorobenzene	2	2.00	ug/L	100	5		70	130	20
	1,2-Dibromo-3-Chloropropane	2	2.00	ug/L	100	16		70	130	20
	1,2,4-Trichlorobenzene	2	2.00	ug/L	100	5		70	130	20
	Hexachlorobutadiene	2	2.00	ug/L	100	5		70	130	20
	Naphthalene	2	2.10	ug/L	105	15		70	130	20
	1,2,3-Trichlorobenzene	2	2.00	ug/L	100	11		70	130	20
	Iodomethane	2	1.90	ug/L	95	5		70	130	20
	Allyl Chloride	2	2.10	ug/L	105	5		70	130	20
	Methacrylonitrile	2	2.00	ug/L	100	5		70	130	20
	Isopropyl Ether	2	2.20	ug/L	110	5		70	130	20
	Methyl methacrylate	4	3.70	ug/L	93	6		70	130	20

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VOLATILE METHOD BLANK SUMMARY

Client ID: VU0717WBL01

Lab Name: Alliance | Contract: ALLI03

Lab Code: ACE | SDG NO.: Q2552

Lab File ID: VU063520.D | Lab Sample ID: VU0717WBL01

Date Analyzed: 07/17/2025 | Time Analyzed: 11:31

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

Instrument ID: MSVOA_U

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VU0717WBS01	VU0717WBS01	VU063521.D	07/17/2025
VU0717WBSD01	VU0717WBSD01	VU063522.D	07/17/2025
WS0725-PT-ADD-WS	Q2552-10	VU063525.D	07/17/2025
WS0725-PT-ADD-WSDL	Q2552-10DL	VU063526.D	07/17/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: ALLI03

Lab Code: ACE | SDG NO.: Q2552

Lab File ID: VU063510.D | BFB Injection Date: 07/16/2025

Instrument ID: MSVOA_U | BFB Injection Time: 08:13

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	53.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	79
175	5.0 - 9.0% of mass 174	6.1 (7.7) 1
176	95.0 - 101.0% of mass 174	77.5 (98.1) 1
177	5.0 - 9.0% of mass 176	4.9 (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
VSTDICC0.5	VSTDICC0.5	VU063511.D	07/16/2025	09:24
VSTDICC001	VSTDICC001	VU063512.D	07/16/2025	09:54
VSTDICC002	VSTDICC002	VU063513.D	07/16/2025	10:27
VSTDICC005	VSTDICC005	VU063514.D	07/16/2025	11:00
VSTDICCC010	VSTDICCC010	VU063515.D	07/16/2025	11:37
VSTDICC015	VSTDICC015	VU063516.D	07/16/2025	12:11

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: ALLI03

Lab Code: ACE | SDG NO.: Q2552

Lab File ID: VU063518.D | BFB Injection Date: 07/17/2025

Instrument ID: MSVOA_U | BFB Injection Time: 08:10

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	18.2
75	30.0 - 60.0% of mass 95	52.6
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	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	73.7
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	70.5 (95.7) 1
177	5.0 - 9.0% of mass 176	4.7 (6.6) 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
VSTDCCC010	VSTDCCC010	VU063519.D	07/17/2025	09:25
VU0717WBL01	VU0717WBL01	VU063520.D	07/17/2025	11:31
VU0717WBS01	VU0717WBS01	VU063521.D	07/17/2025	12:43
VU0717WBSD01	VU0717WBSD01	VU063522.D	07/17/2025	13:13
WS0725-PT-ADD-WS	Q2552-10	VU063525.D	07/17/2025	15:17
WS0725-PT-ADD-WSDL	Q2552-10DL	VU063526.D	07/17/2025	15:48

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ALLI03

Lab Code: ACE SDG NO.: Q2552

Lab File ID: VU063519.D Date Analyzed: 07/17/2025

Instrument ID: MSVOA_U 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	27500	6.10	0	0.00	0	0.00
UPPER LIMIT	35750	6.6	0		0	
LOWER LIMIT	19250	5.6	0		0	
EPA SAMPLE NO.						
WS0725-PT-ADD-WS	21996	6.10	0	0.00	0	0.00
WS0725-PT-ADD-WSDL	20264	6.10	0	0.00	0	0.00
VU0717WBL01	22965	6.10	0	0.00	0	0.00
VU0717WBS01	21864	6.10	0	0.00	0	0.00
VU0717WBSD01	21661	6.10	0	0.00	0	0.00

IS1 = Fluorobenzene
IS2 =
IS3 =

AREA UPPER LIMIT = +30% of internal standard area
AREA LOWER LIMIT = -30% 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:	Alliance Technical Group, LLC - Newark	Date Collected:	07/07/25
Project:	NJ Drinking Water PT	Date Received:	07/09/25
Client Sample ID:	WS0725-PT-ADD-WS	SDG No.:	Q2552
Lab Sample ID:	Q2552-10	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063525.D	1	07/17/25 15:17	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	0.12	0.50	ug/L
74-87-3	Chloromethane	0.13	U	0.13	0.50	ug/L
75-01-4	Vinyl Chloride	0.12	U	0.12	0.50	ug/L
74-83-9	Bromomethane	0.15	U	0.15	0.50	ug/L
75-00-3	Chloroethane	0.14	U	0.14	0.50	ug/L
109-99-9	Tetrahydrofuran	0.42	U	0.42	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.50	ug/L
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12.8		0.11	0.50	ug/L
75-65-0	tert-Butyl Alcohol	22.9		3.60	10.0	ug/L
60-29-7	Diethyl Ether	0.13	U	0.13	0.50	ug/L
75-35-4	1,1-Dichloroethene	0.13	U	0.13	0.50	ug/L
107-13-1	Acrylonitrile	0.44	U	0.44	1.00	ug/L
67-64-1	Acetone	0.97	U	0.97	2.50	ug/L
75-15-0	Carbon Disulfide	0.12	U	0.12	0.50	ug/L
1634-04-4	Methyl tert-Butyl Ether	43.7	E	0.11	0.50	ug/L
96-33-3	Methyl acrylate	0.33	U	0.33	0.50	ug/L
75-09-2	Methylene Chloride	0.44	U	0.44	0.50	ug/L
156-60-5	trans-1,2-Dichloroethene	0.14	U	0.14	0.50	ug/L
75-34-3	1,1-Dichloroethane	0.13	U	0.13	0.50	ug/L
110-82-7	Cyclohexane	0.14	U	0.14	0.50	ug/L
78-93-3	2-Butanone	0.72	U	0.72	2.50	ug/L
56-23-5	Carbon Tetrachloride	0.13	U	0.13	0.50	ug/L
594-20-7	2,2-Dichloropropane	0.12	U	0.12	0.50	ug/L
156-59-2	cis-1,2-Dichloroethene	0.13	U	0.13	0.50	ug/L
74-97-5	Bromochloromethane	0.17	U	0.17	0.50	ug/L
67-66-3	Chloroform	0.17	U	0.17	0.50	ug/L
71-55-6	1,1,1-Trichloroethane	0.12	U	0.12	0.50	ug/L
108-87-2	Methylcyclohexane	0.090	U	0.090	0.50	ug/L
563-58-6	1,1-Dichloropropene	0.11	U	0.11	0.50	ug/L
107-12-0	Propionitrile	1.20	U	1.20	2.50	ug/L

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/07/25
Project:	NJ Drinking Water PT	Date Received:	07/09/25
Client Sample ID:	WS0725-PT-ADD-WS	SDG No.:	Q2552
Lab Sample ID:	Q2552-10	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063525.D	1	07/17/25 15:17	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-43-2	Benzene	0.11	U	0.11	0.50	ug/L
107-06-2	1,2-Dichloroethane	0.14	U	0.14	0.50	ug/L
79-01-6	Trichloroethene	0.13	U	0.13	0.50	ug/L
78-87-5	1,2-Dichloropropane	0.13	U	0.13	0.50	ug/L
109-69-3	1-Chlorobutane	0.12	U	0.12	0.50	ug/L
74-95-3	Dibromomethane	0.15	U	0.15	0.50	ug/L
75-27-4	Bromodichloromethane	0.13	U	0.13	0.50	ug/L
108-10-1	4-Methyl-2-Pentanone	0.63	U	0.63	2.50	ug/L
108-88-3	Toluene	0.11	U	0.11	0.50	ug/L
10061-02-6	t-1,3-Dichloropropene	0.11	U	0.11	0.50	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.11	U	0.11	0.50	ug/L
79-00-5	1,1,2-Trichloroethane	0.13	U	0.13	0.50	ug/L
142-28-9	1,3-Dichloropropane	0.12	U	0.12	0.50	ug/L
591-78-6	2-Hexanone	0.65	U	0.65	2.50	ug/L
124-48-1	Dibromochloromethane	0.20	U	0.20	0.50	ug/L
106-93-4	1,2-Dibromoethane	0.13	U	0.13	0.50	ug/L
127-18-4	Tetrachloroethene	0.14	U	0.14	0.50	ug/L
108-90-7	Chlorobenzene	0.11	U	0.11	0.50	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.13	U	0.13	0.50	ug/L
67-72-1	Hexachloroethane	0.12	U	0.12	0.50	ug/L
100-41-4	Ethyl Benzene	0.41	U	0.41	0.50	ug/L
179601-23-1	m/p-Xylenes	0.73	U	0.73	1.00	ug/L
1330-20-7	Total Xylenes	1.09	U	1.09	1.50	ug/L
95-47-6	o-Xylene	0.36	U	0.36	0.50	ug/L
100-42-5	Styrene	0.38	U	0.38	0.50	ug/L
75-25-2	Bromoform	0.31	U	0.31	0.50	ug/L
98-82-8	Isopropylbenzene	0.38	U	0.38	0.50	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.13	0.50	ug/L
96-18-4	1,2,3-Trichloropropane	0.19	U	0.19	0.50	ug/L
108-86-1	Bromobenzene	0.13	U	0.13	0.50	ug/L
103-65-1	n-propylbenzene	46.1	E	0.42	0.50	ug/L

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/07/25
Project:	NJ Drinking Water PT	Date Received:	07/09/25
Client Sample ID:	WS0725-PT-ADD-WS	SDG No.:	Q2552
Lab Sample ID:	Q2552-10	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063525.D	1	07/17/25 15:17	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-49-8	2-Chlorotoluene	0.27	U	0.27	0.50	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.37	U	0.37	0.50	ug/L
106-43-4	4-Chlorotoluene	0.27	U	0.27	0.50	ug/L
98-06-6	tert-Butylbenzene	0.37	U	0.37	0.50	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.40	U	0.40	0.50	ug/L
135-98-8	sec-Butylbenzene	0.36	U	0.36	0.50	ug/L
99-87-6	p-Isopropyltoluene	0.42	U	0.42	0.50	ug/L
541-73-1	1,3-Dichlorobenzene	0.13	U	0.13	0.50	ug/L
106-46-7	1,4-Dichlorobenzene	0.13	U	0.13	0.50	ug/L
104-51-8	n-Butylbenzene	0.43	U	0.43	0.50	ug/L
95-50-1	1,2-Dichlorobenzene	0.14	U	0.14	0.50	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.24	U	0.24	0.50	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.21	U	0.21	0.50	ug/L
87-68-3	Hexachlorobutadiene	0.14	U	0.14	0.50	ug/L
91-20-3	Naphthalene	0.33	U	0.33	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.31	U	0.31	0.50	ug/L
74-88-4	Iodomethane	0.090	U	0.090	1.00	ug/L
107-05-1	Allyl Chloride	0.13	U	0.13	0.50	ug/L
126-98-7	Methacrylonitrile	0.24	U	0.24	0.50	ug/L
108-20-3	Isopropyl Ether	54.5	E	0.14	0.50	ug/L
80-62-6	Methyl methacrylate	0.24	U	0.24	1.00	ug/L
SURROGATES						
2199-69-1	1,2-Dichlorobenzene-d4	1.00		70 - 130	100%	SPK: 1
460-00-4	4-Bromofluorobenzene	0.93		70 - 130	93%	SPK: 1
INTERNAL STANDARDS						
462-06-6	Fluorobenzene	22000	6.1			

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/07/25
Project:	NJ Drinking Water PT	Date Received:	07/09/25
Client Sample ID:	WS0725-PT-ADD-WS	SDG No.:	Q2552
Lab Sample ID:	Q2552-10	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063525.D	1	07/17/25 15:17	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	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_U\Data\VU071725\
Data File : VU063525.D
Acq On : 17 Jul 2025 15:17
Operator : MD/SY
Sample : Q2552-10
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WS

Quant Time: Jul 18 04:13:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

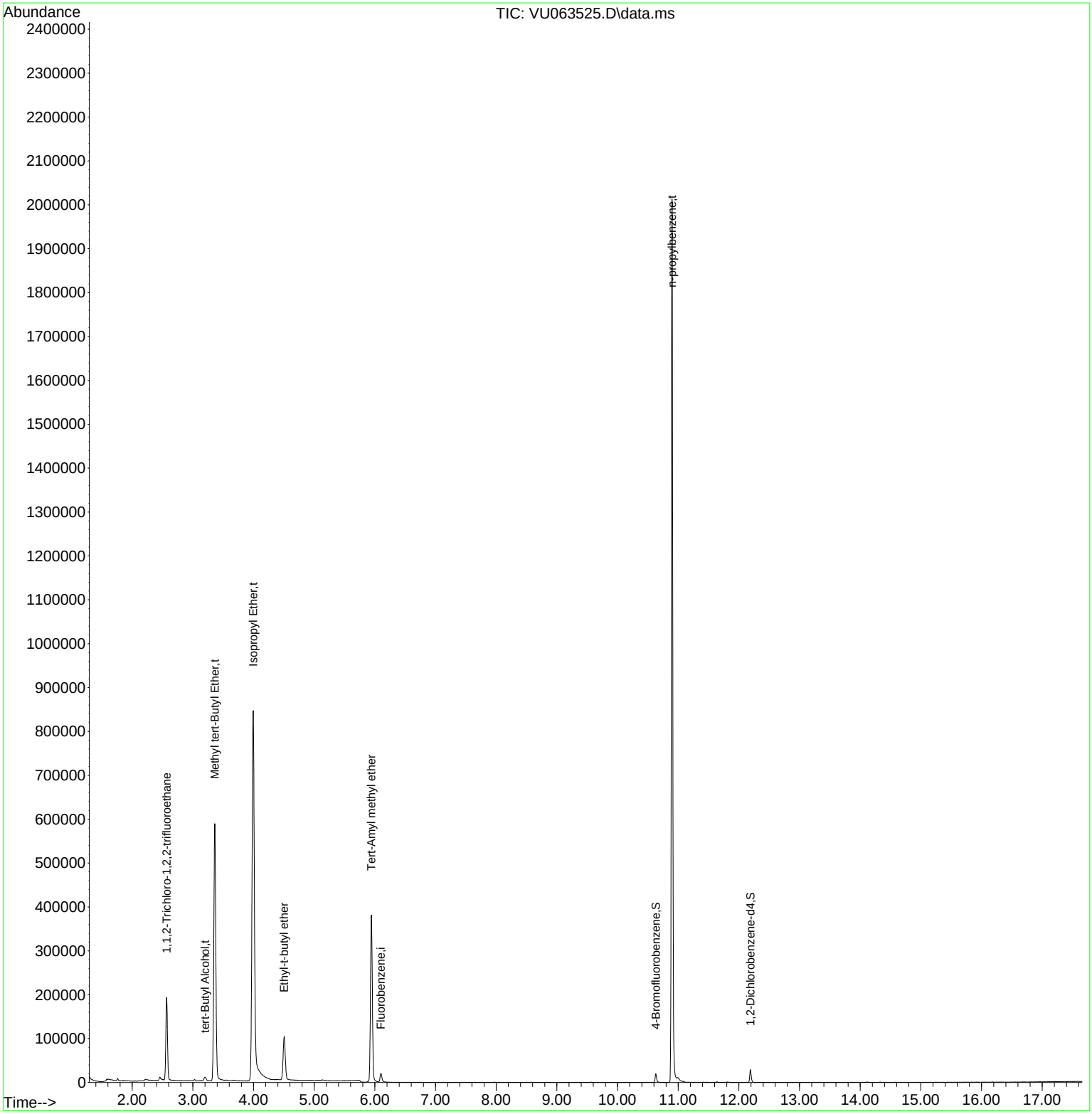
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	21996	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	7782	0.934	ug/l	0.00
Spiked Amount 1.000			Recovery = 93.000%			
68) 1,2-Dichlorobenzene-d4	12.190	152	7717	1.002	ug/l	0.00
Spiked Amount 1.000			Recovery = 100.000%			
Target Compounds						Qvalue
8) 1,1,2-Trichloro-1,2,2-...	2.567	101	73591	12.773	ug/l	98
24) tert-Butyl Alcohol	3.203	59	12029	22.900	ug/l #	72
25) Methyl tert-Butyl Ether	3.361	73	652085	43.740	ug/l	98
31) Isopropyl Ether	3.994	45	988692	54.487	ug/l	98
32) Ethyl-t-butyl ether	4.505	59	101842	6.065	ug/l	99
33) Tert-Amyl methyl ether	5.943	73	317714	21.801	ug/l	99
73) n-propylbenzene	10.898	120	350402	46.101	ug/l	93

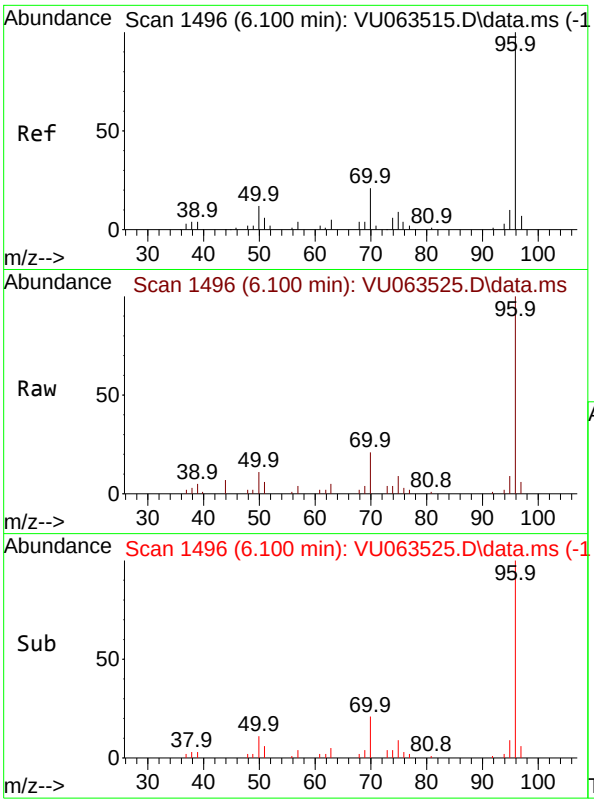
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063525.D
Acq On : 17 Jul 2025 15:17
Operator : MD/SY
Sample : Q2552-10
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WS

Quant Time: Jul 18 04:13:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration



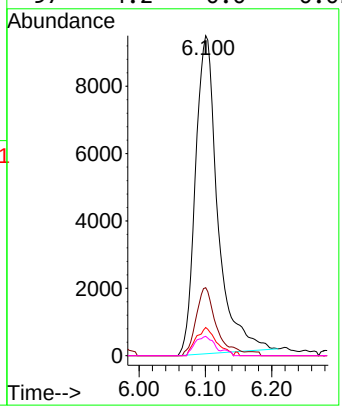


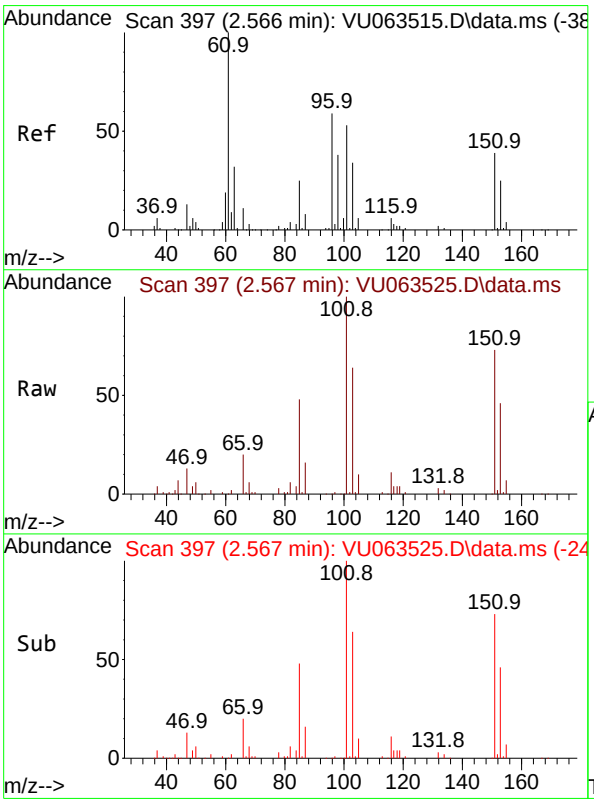
#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.100 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063525.D
Acq: 17 Jul 2025 15:17

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WS

Tgt Ion: 96 Resp: 21996

Ion	Ratio	Lower	Upper
96	100		
70	18.0	15.0	22.4
95	8.1	7.4	11.0
97	4.2	0.0	0.0#

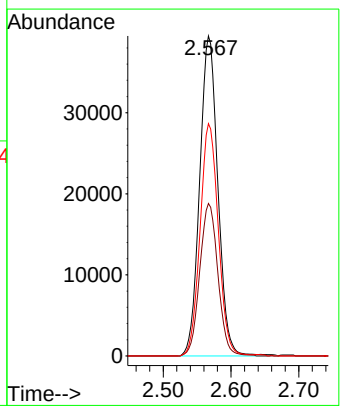


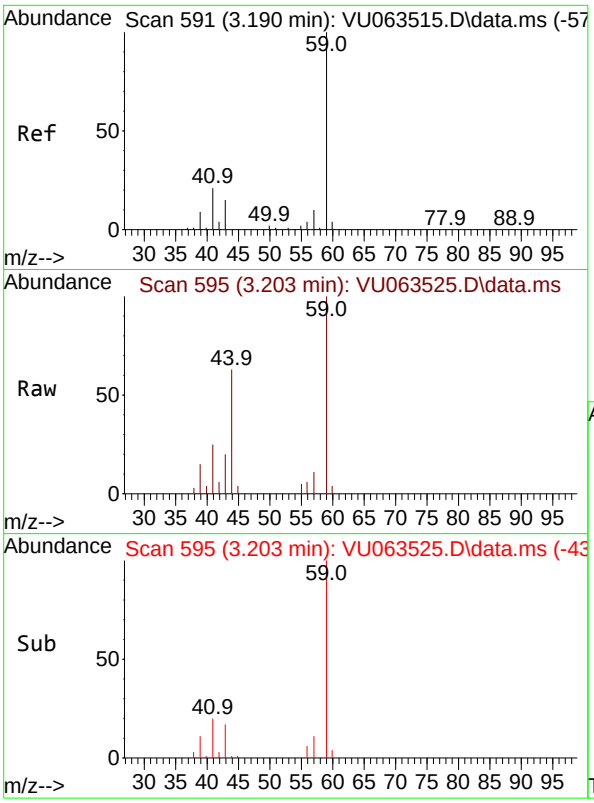


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 12.773 ug/l
RT: 2.567 min Scan# 397
Delta R.T. 0.000 min
Lab File: VU063525.D
Acq: 17 Jul 2025 15:17

Tgt Ion:101 Resp: 73591

Ion	Ratio	Lower	Upper
101	100		
85	47.5	37.8	56.6
151	72.0	59.2	88.8



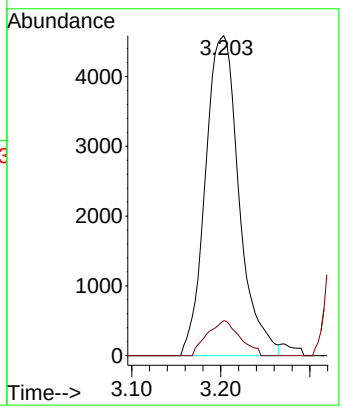


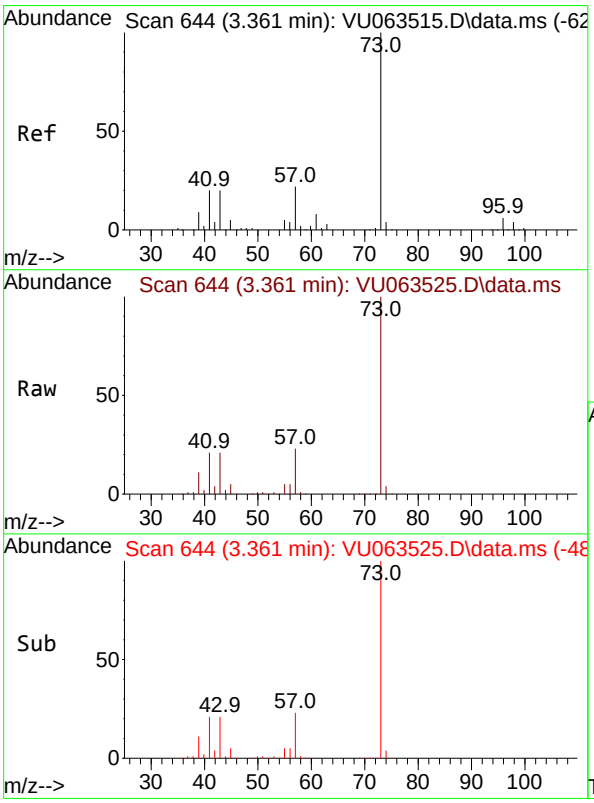
#24
tert-Butyl Alcohol
Concen: 22.900 ug/l
RT: 3.203 min Scan# 5
Delta R.T. 0.013 min
Lab File: VU063525.D
Acq: 17 Jul 2025 15:17

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WS

Tgt Ion: 59 Resp: 12029

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	12.8#

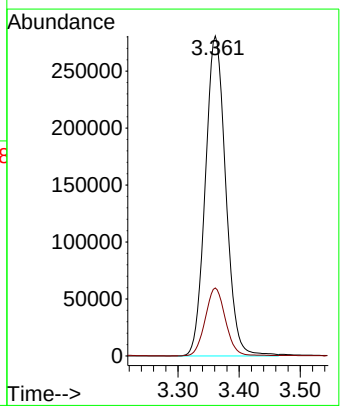


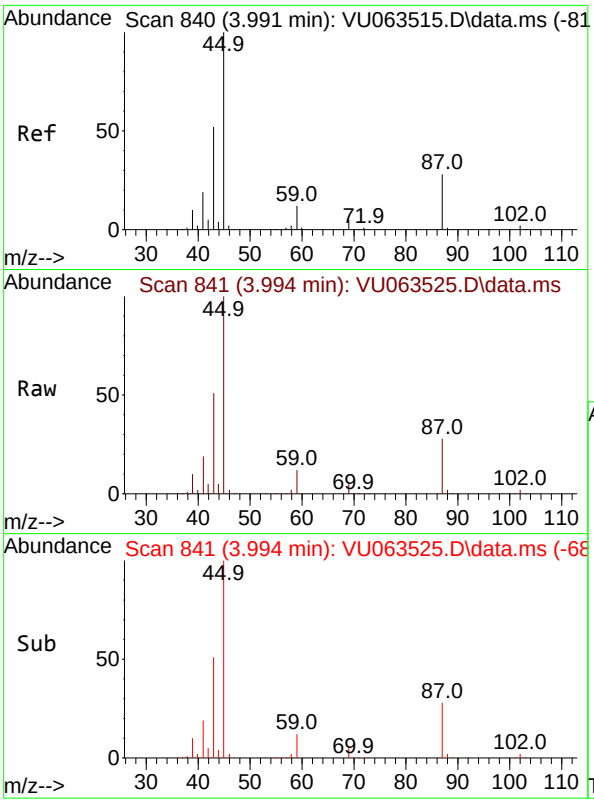


#25
Methyl tert-Butyl Ether
Concen: 43.740 ug/l
RT: 3.361 min Scan# 644
Delta R.T. 0.000 min
Lab File: VU063525.D
Acq: 17 Jul 2025 15:17

Tgt Ion: 73 Resp: 652085

Ion	Ratio	Lower	Upper
73	100		
43	21.1	16.2	24.2



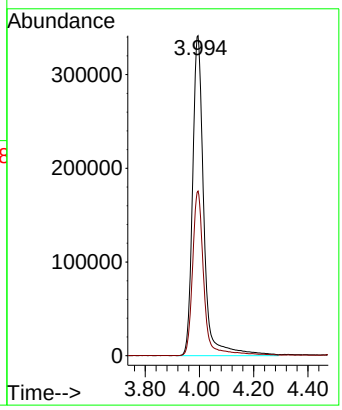


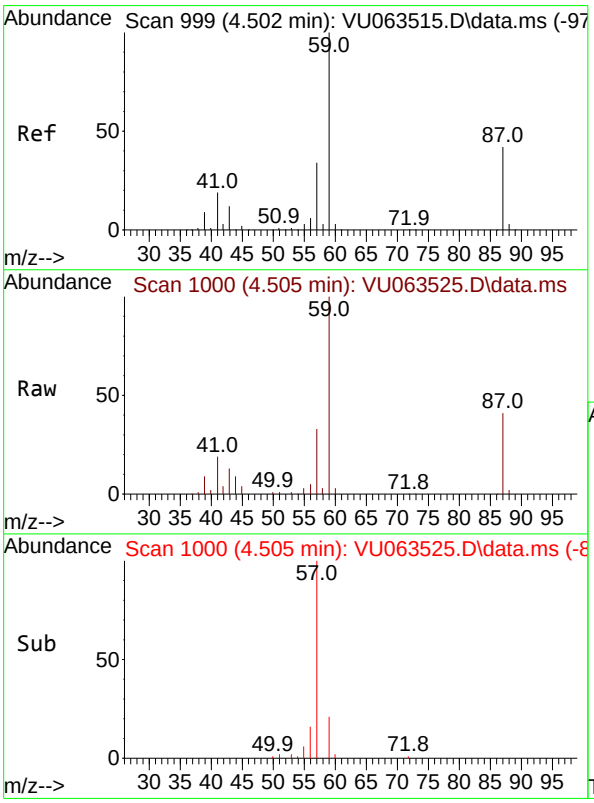
#31
Isopropyl Ether
Concen: 54.487 ug/l
RT: 3.994 min Scan# 84
Delta R.T. 0.003 min
Lab File: VU063525.D
Acq: 17 Jul 2025 15:17

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WS

Tgt Ion: 45 Resp: 988692

Ion	Ratio	Lower	Upper
45	100		
43	50.1	25.7	77.0

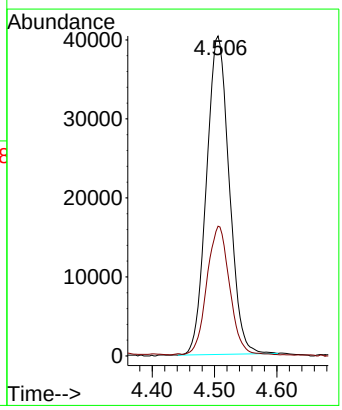


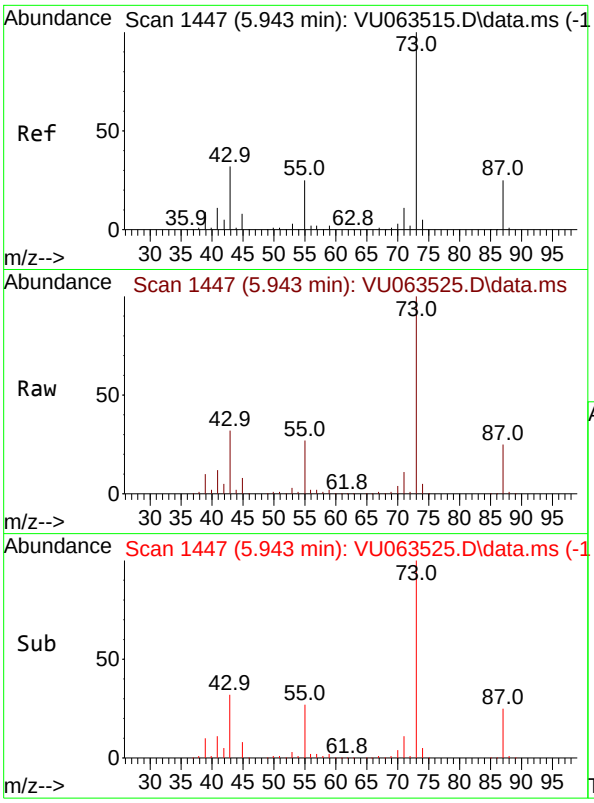


#32
Ethyl-t-butyl ether
Concen: 6.065 ug/l
RT: 4.505 min Scan# 1000
Delta R.T. 0.003 min
Lab File: VU063525.D
Acq: 17 Jul 2025 15:17

Tgt Ion: 59 Resp: 101842

Ion	Ratio	Lower	Upper
59	100		
87	40.2	32.6	49.0



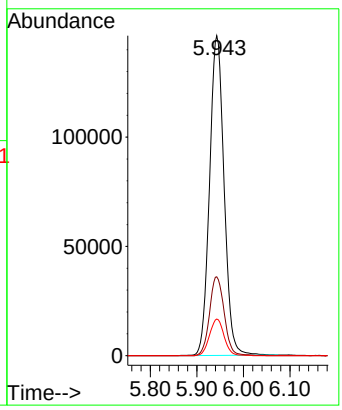


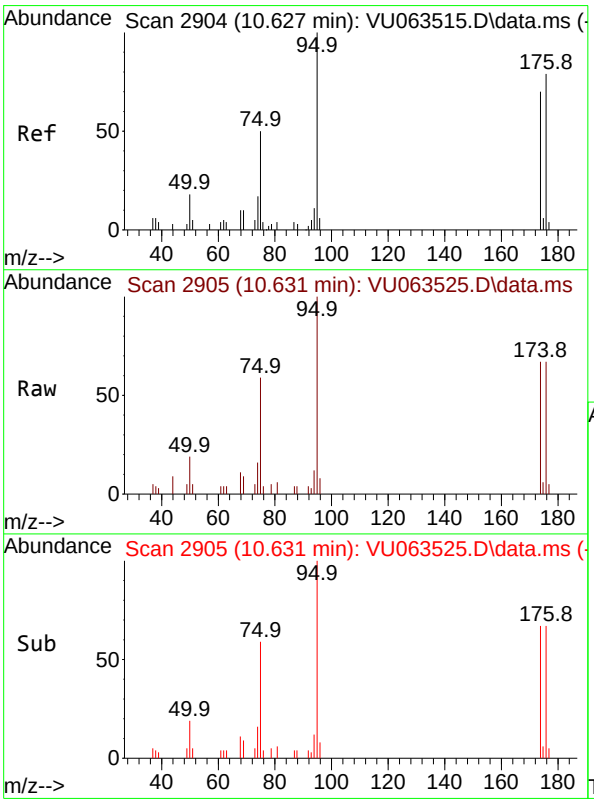
#33
Tert-Amyl methyl ether
Concen: 21.801 ug/l
RT: 5.943 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063525.D
Acq: 17 Jul 2025 15:17

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WS

Tgt Ion: 73 Resp: 317714

Ion	Ratio	Lower	Upper
73	100		
87	25.0	19.4	29.2
71	11.5	8.9	13.3

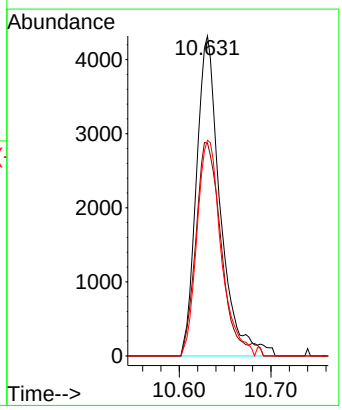


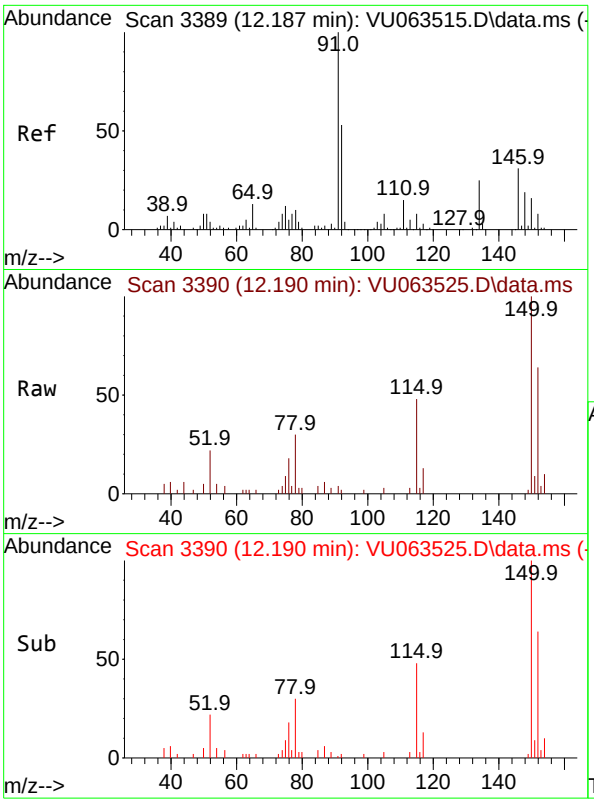


#57
4-Bromofluorobenzene
Concen: 0.934 ug/l
RT: 10.631 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VU063525.D
Acq: 17 Jul 2025 15:17

Tgt Ion: 95 Resp: 7782

Ion	Ratio	Lower	Upper
95	100		
174	70.0	59.8	89.8
176	68.6	61.8	92.8



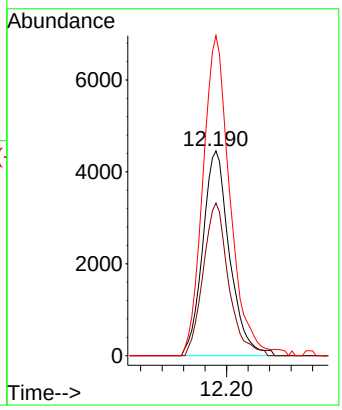


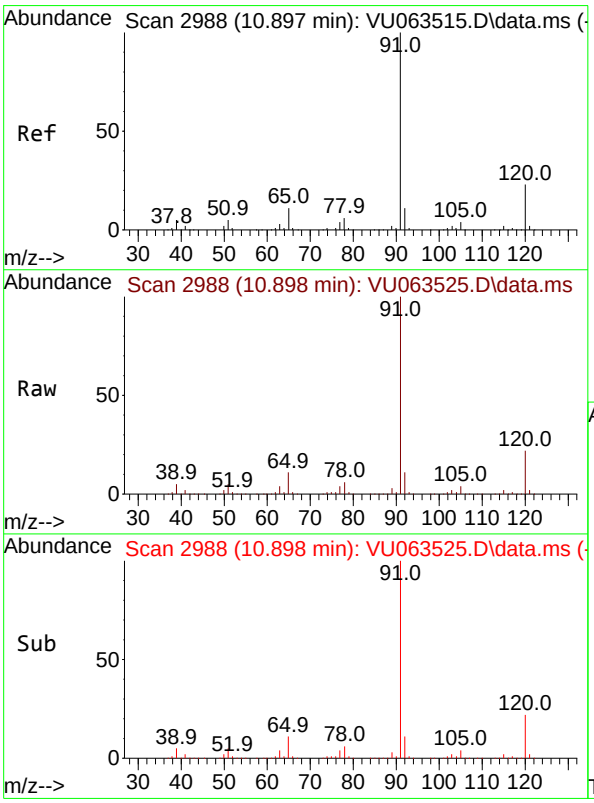
#68
1,2-Dichlorobenzene-d4
Concen: 1.002 ug/l
RT: 12.190 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063525.D
Acq: 17 Jul 2025 15:17

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WS

Tgt Ion:152 Resp: 7717

Ion	Ratio	Lower	Upper
152	100		
115	70.6	0.0	262.2
150	158.2	0.0	651.2

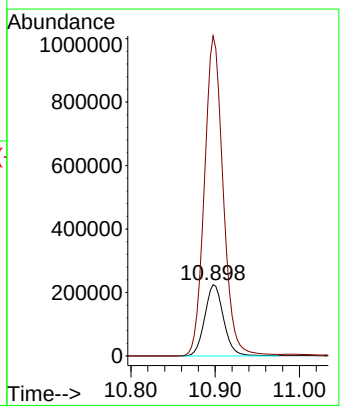




#73
n-propylbenzene
Concen: 46.101 ug/l
RT: 10.898 min Scan# 2988
Delta R.T. 0.000 min
Lab File: VU063525.D
Acq: 17 Jul 2025 15:17

Tgt Ion:120 Resp: 350402

Ion	Ratio	Lower	Upper
120	100		
91	446.5	343.1	514.7



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/07/25
Project:	NJ Drinking Water PT	Date Received:	07/09/25
Client Sample ID:	WS0725-PT-ADD-WSDL	SDG No.:	Q2552
Lab Sample ID:	Q2552-10DL	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063526.D	4	07/17/25 15:48	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.48	UD	0.48	2.00	ug/L
74-87-3	Chloromethane	0.52	UD	0.52	2.00	ug/L
75-01-4	Vinyl Chloride	0.48	UD	0.48	2.00	ug/L
74-83-9	Bromomethane	0.60	UD	0.60	2.00	ug/L
75-00-3	Chloroethane	0.56	UD	0.56	2.00	ug/L
109-99-9	Tetrahydrofuran	1.70	UD	1.70	4.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	UD	0.80	2.00	ug/L
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10.5	D	0.44	2.00	ug/L
75-65-0	tert-Butyl Alcohol	21.5	JD	14.4	40.0	ug/L
60-29-7	Diethyl Ether	0.52	UD	0.52	2.00	ug/L
75-35-4	1,1-Dichloroethene	0.52	UD	0.52	2.00	ug/L
107-13-1	Acrylonitrile	1.80	UD	1.80	4.00	ug/L
67-64-1	Acetone	3.90	UD	3.90	10.0	ug/L
75-15-0	Carbon Disulfide	0.48	UD	0.48	2.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	36.9	D	0.44	2.00	ug/L
96-33-3	Methyl acrylate	1.30	UD	1.30	2.00	ug/L
75-09-2	Methylene Chloride	1.80	UD	1.80	2.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.56	UD	0.56	2.00	ug/L
75-34-3	1,1-Dichloroethane	0.52	UD	0.52	2.00	ug/L
110-82-7	Cyclohexane	0.56	UD	0.56	2.00	ug/L
78-93-3	2-Butanone	2.90	UD	2.90	10.0	ug/L
56-23-5	Carbon Tetrachloride	0.52	UD	0.52	2.00	ug/L
594-20-7	2,2-Dichloropropane	0.48	UD	0.48	2.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.52	UD	0.52	2.00	ug/L
74-97-5	Bromochloromethane	0.68	UD	0.68	2.00	ug/L
67-66-3	Chloroform	0.68	UD	0.68	2.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.48	UD	0.48	2.00	ug/L
108-87-2	Methylcyclohexane	0.36	UD	0.36	2.00	ug/L
563-58-6	1,1-Dichloropropene	0.44	UD	0.44	2.00	ug/L
107-12-0	Propionitrile	4.60	UD	4.60	10.0	ug/L

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/07/25
Project:	NJ Drinking Water PT	Date Received:	07/09/25
Client Sample ID:	WS0725-PT-ADD-WSDL	SDG No.:	Q2552
Lab Sample ID:	Q2552-10DL	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063526.D	4	07/17/25 15:48	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-43-2	Benzene	0.44	UD	0.44	2.00	ug/L
107-06-2	1,2-Dichloroethane	0.56	UD	0.56	2.00	ug/L
79-01-6	Trichloroethene	0.52	UD	0.52	2.00	ug/L
78-87-5	1,2-Dichloropropane	0.52	UD	0.52	2.00	ug/L
109-69-3	1-Chlorobutane	0.48	UD	0.48	2.00	ug/L
74-95-3	Dibromomethane	0.60	UD	0.60	2.00	ug/L
75-27-4	Bromodichloromethane	0.52	UD	0.52	2.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	UD	2.50	10.0	ug/L
108-88-3	Toluene	0.44	UD	0.44	2.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.44	UD	0.44	2.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.44	UD	0.44	2.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.52	UD	0.52	2.00	ug/L
142-28-9	1,3-Dichloropropane	0.48	UD	0.48	2.00	ug/L
591-78-6	2-Hexanone	2.60	UD	2.60	10.0	ug/L
124-48-1	Dibromochloromethane	0.80	UD	0.80	2.00	ug/L
106-93-4	1,2-Dibromoethane	0.52	UD	0.52	2.00	ug/L
127-18-4	Tetrachloroethene	0.56	UD	0.56	2.00	ug/L
108-90-7	Chlorobenzene	0.44	UD	0.44	2.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.52	UD	0.52	2.00	ug/L
67-72-1	Hexachloroethane	0.48	UD	0.48	2.00	ug/L
100-41-4	Ethyl Benzene	1.60	UD	1.60	2.00	ug/L
179601-23-1	m/p-Xylenes	2.90	UD	2.90	4.00	ug/L
1330-20-7	Total Xylenes	4.30	UD	4.30	6.00	ug/L
95-47-6	o-Xylene	1.40	UD	1.40	2.00	ug/L
100-42-5	Styrene	1.50	UD	1.50	2.00	ug/L
75-25-2	Bromoform	1.20	UD	1.20	2.00	ug/L
98-82-8	Isopropylbenzene	1.50	UD	1.50	2.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.52	UD	0.52	2.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.76	UD	0.76	2.00	ug/L
108-86-1	Bromobenzene	0.52	UD	0.52	2.00	ug/L
103-65-1	n-propylbenzene	38.1	D	1.70	2.00	ug/L

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/07/25
Project:	NJ Drinking Water PT	Date Received:	07/09/25
Client Sample ID:	WS0725-PT-ADD-WSDL	SDG No.:	Q2552
Lab Sample ID:	Q2552-10DL	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063526.D	4	07/17/25 15:48	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-49-8	2-Chlorotoluene	1.10	UD	1.10	2.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.50	UD	1.50	2.00	ug/L
106-43-4	4-Chlorotoluene	1.10	UD	1.10	2.00	ug/L
98-06-6	tert-Butylbenzene	1.50	UD	1.50	2.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.60	UD	1.60	2.00	ug/L
135-98-8	sec-Butylbenzene	1.40	UD	1.40	2.00	ug/L
99-87-6	p-Isopropyltoluene	1.70	UD	1.70	2.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.52	UD	0.52	2.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.52	UD	0.52	2.00	ug/L
104-51-8	n-Butylbenzene	1.70	UD	1.70	2.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.56	UD	0.56	2.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.96	UD	0.96	2.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.84	UD	0.84	2.00	ug/L
87-68-3	Hexachlorobutadiene	0.56	UD	0.56	2.00	ug/L
91-20-3	Naphthalene	1.30	UD	1.30	4.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.20	UD	1.20	2.00	ug/L
74-88-4	Iodomethane	0.38	UD	0.38	4.00	ug/L
107-05-1	Allyl Chloride	0.52	UD	0.52	2.00	ug/L
126-98-7	Methacrylonitrile	0.96	UD	0.96	2.00	ug/L
108-20-3	Isopropyl Ether	43.8	D	0.56	2.00	ug/L
80-62-6	Methyl methacrylate	0.96	UD	0.96	4.00	ug/L
SURROGATES						
2199-69-1	1,2-Dichlorobenzene-d4	1.00		70 - 130	100%	SPK: 1
460-00-4	4-Bromofluorobenzene	1.00		70 - 130	101%	SPK: 1
INTERNAL STANDARDS						
462-06-6	Fluorobenzene	20300	6.1			

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/07/25
Project:	NJ Drinking Water PT	Date Received:	07/09/25
Client Sample ID:	WS0725-PT-ADD-WSDL	SDG No.:	Q2552
Lab Sample ID:	Q2552-10DL	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063526.D	4	07/17/25 15:48	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	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_U\Data\VU071725\
Data File : VU063526.D
Acq On : 17 Jul 2025 15:48
Operator : MD/SY
Sample : Q2552-10DL 4X
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WSDL

Quant Time: Jul 18 04:14:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

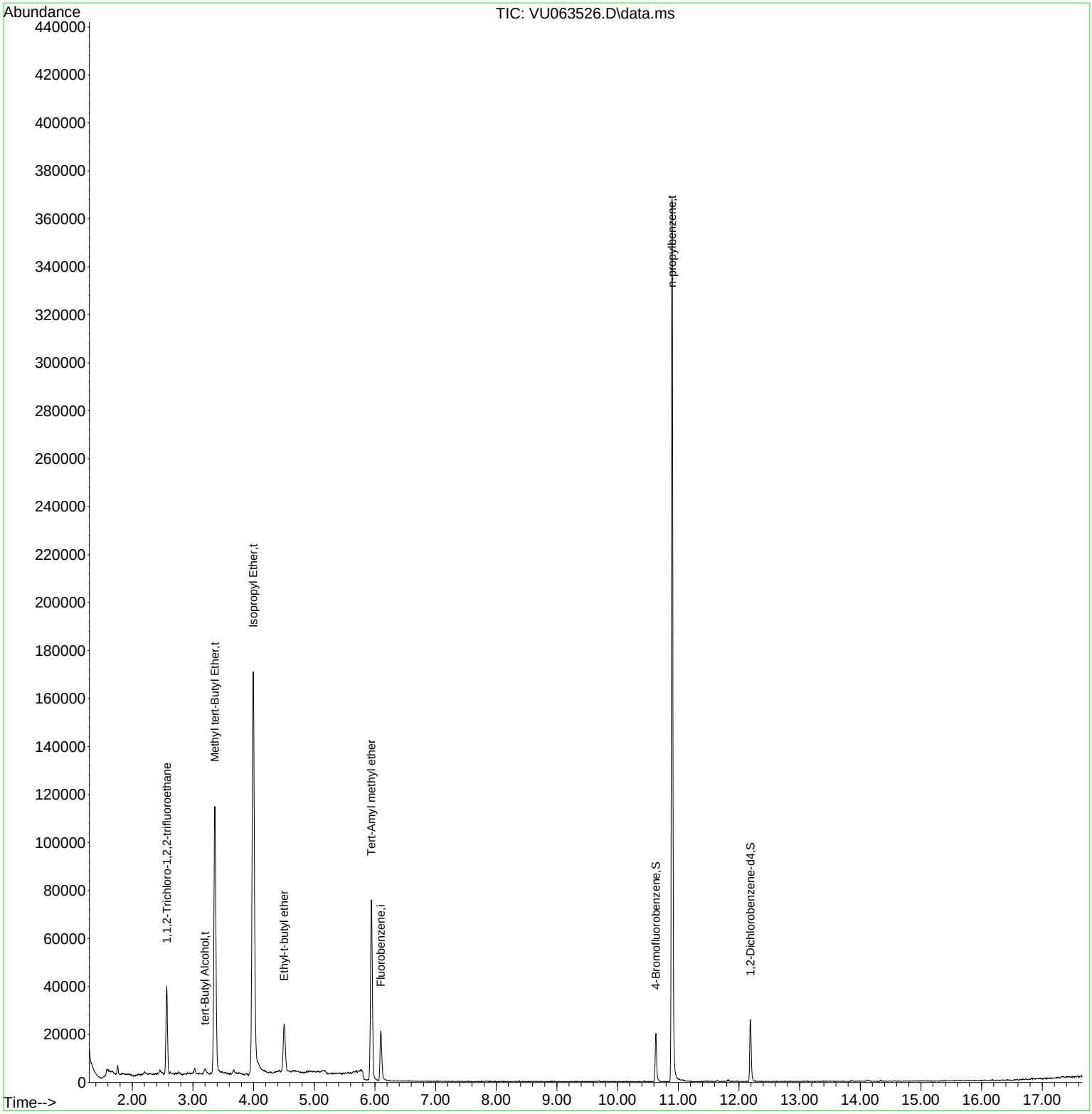
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	20264	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.630	95	7712	1.005	ug/l	0.00
Spiked Amount 1.000			Recovery = 101.000%			
68) 1,2-Dichlorobenzene-d4	12.190	152	7114	1.003	ug/l	0.00
Spiked Amount 1.000			Recovery = 100.000%			
Target Compounds						Qvalue
8) 1,1,2-Trichloro-1,2,2-...	2.570	101	13989	2.636	ug/l	99
24) tert-Butyl Alcohol	3.197	59	2605	5.383	ug/l #	72
25) Methyl tert-Butyl Ether	3.361	73	126773	9.230	ug/l	99
31) Isopropyl Ether	3.994	45	183171	10.957	ug/l	96
32) Ethyl-t-butyl ether	4.502	59	20283	1.311	ug/l	96
33) Tert-Amyl methyl ether	5.942	73	62681	4.669	ug/l	100
73) n-propylbenzene	10.897	120	66619	9.514	ug/l	94

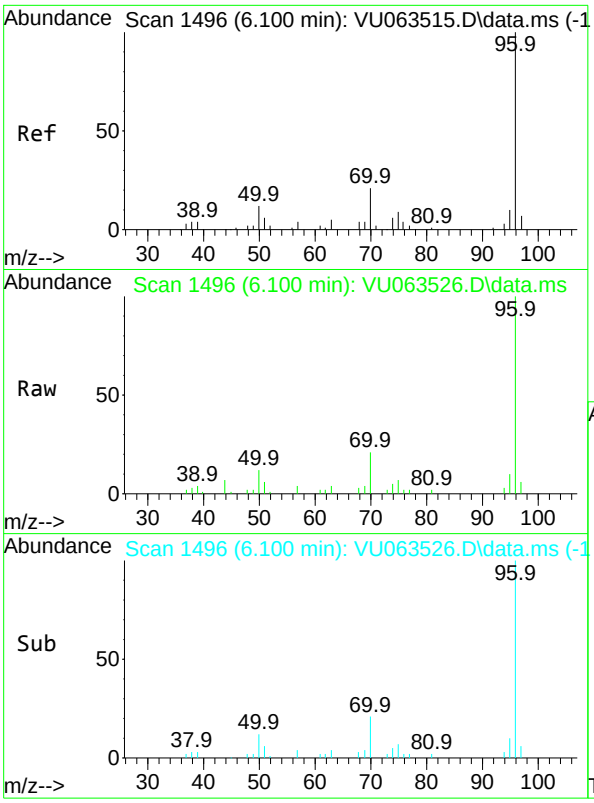
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063526.D
Acq On : 17 Jul 2025 15:48
Operator : MD/SY
Sample : Q2552-10DL 4X
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WSDL

Quant Time: Jul 18 04:14:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration



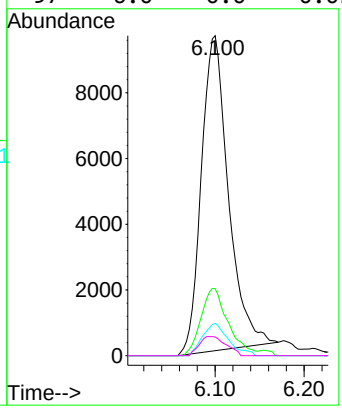


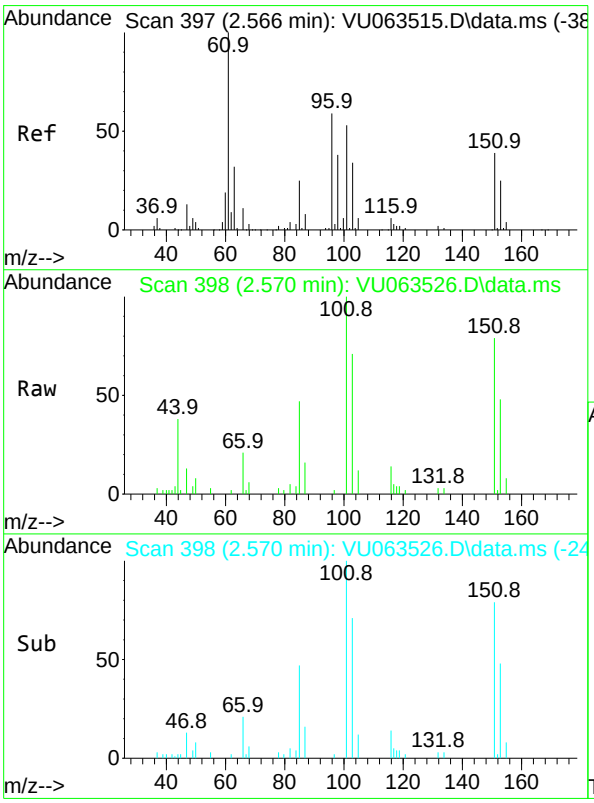
#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.100 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063526.D
Acq: 17 Jul 2025 15:48

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WSDL

Tgt Ion: 96 Resp: 20264

Ion	Ratio	Lower	Upper
96	100		
70	19.7	15.0	22.4
95	9.8	7.4	11.0
97	6.0	0.0	0.0#

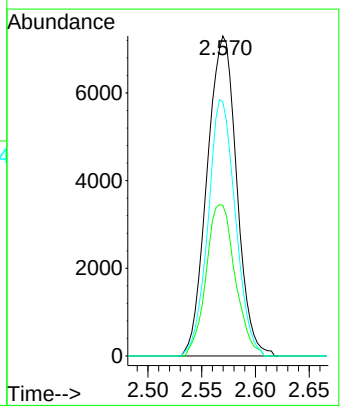


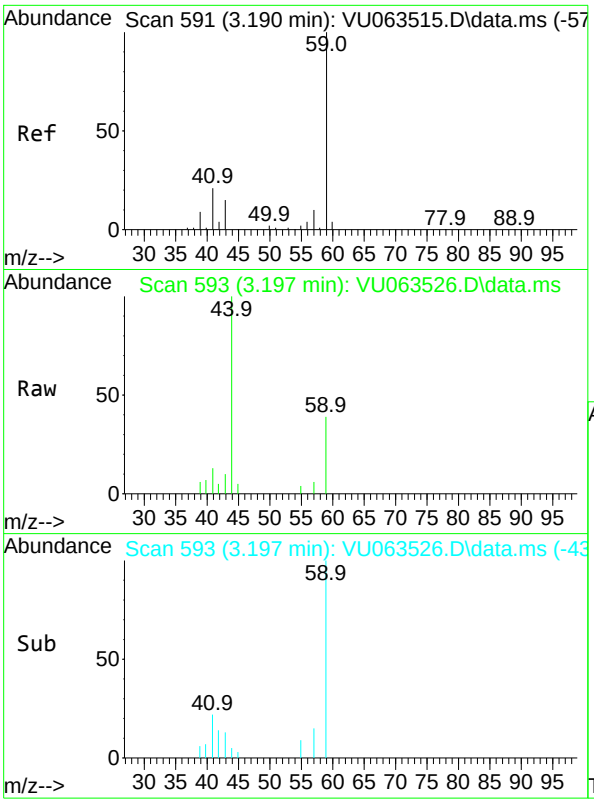


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.636 ug/l
RT: 2.570 min Scan# 398
Delta R.T. 0.003 min
Lab File: VU063526.D
Acq: 17 Jul 2025 15:48

Tgt Ion:101 Resp: 13989

Ion	Ratio	Lower	Upper
101	100		
85	46.2	37.8	56.6
151	74.1	59.2	88.8



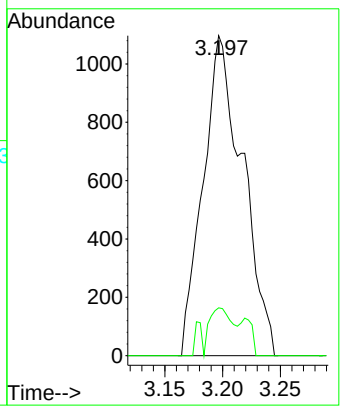


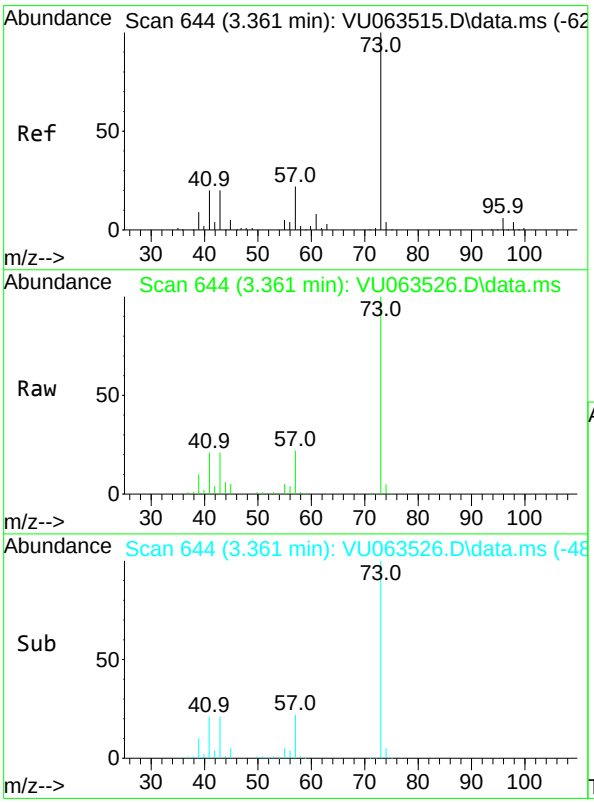
#24
tert-Butyl Alcohol
Concen: 5.383 ug/l
RT: 3.197 min Scan# 5
Delta R.T. 0.006 min
Lab File: VU063526.D
Acq: 17 Jul 2025 15:48

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WSDL

Tgt Ion: 59 Resp: 2605

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	12.8#

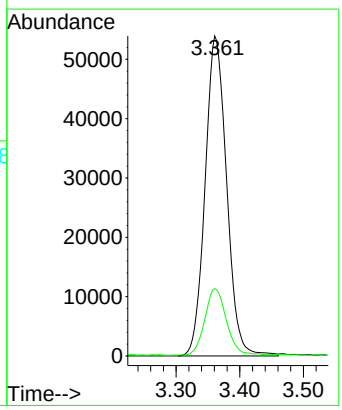


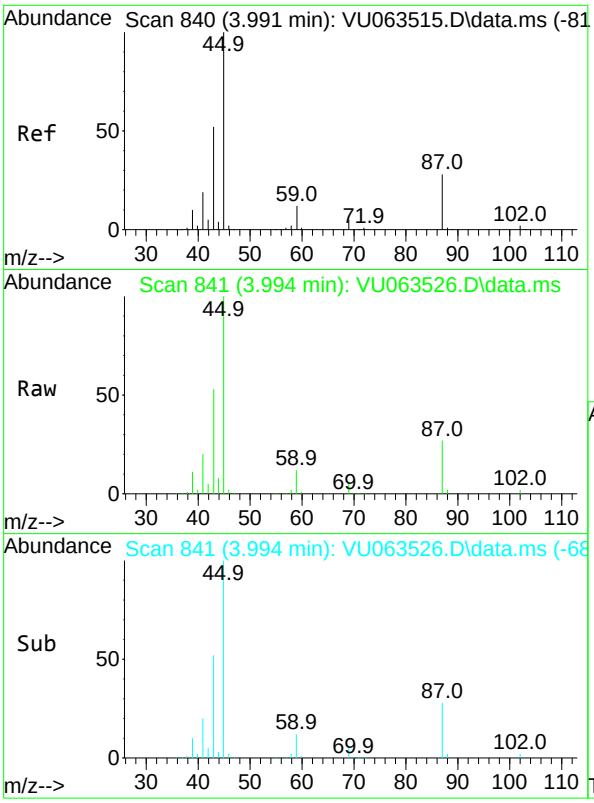


#25
Methyl tert-Butyl Ether
Concen: 9.230 ug/l
RT: 3.361 min Scan# 644
Delta R.T. -0.000 min
Lab File: VU063526.D
Acq: 17 Jul 2025 15:48

Tgt Ion: 73 Resp: 126773

Ion	Ratio	Lower	Upper
73	100		
43	20.7	16.2	24.2



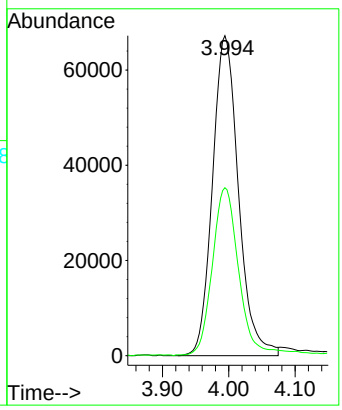


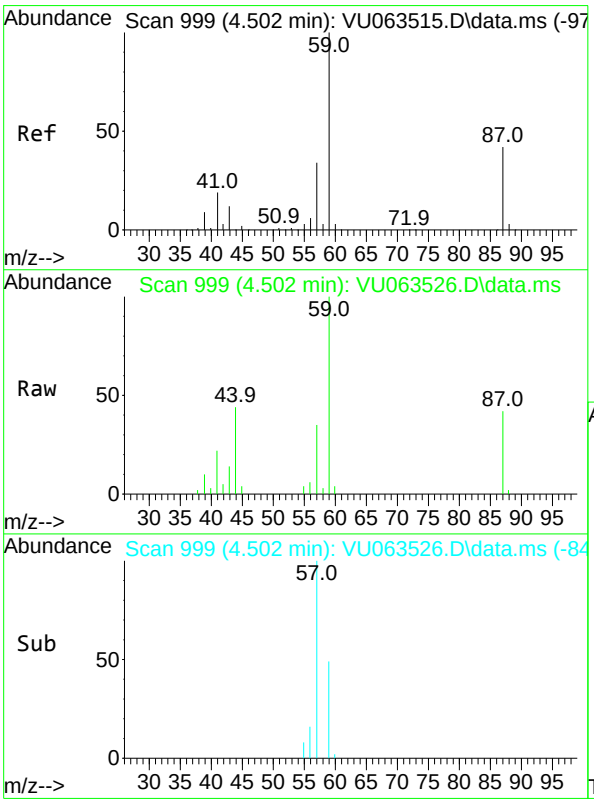
#31
Isopropyl Ether
Concen: 10.957 ug/l
RT: 3.994 min Scan# 84
Delta R.T. 0.003 min
Lab File: VU063526.D
Acq: 17 Jul 2025 15:48

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WSDL

Tgt Ion: 45 Resp: 183171

Ion	Ratio	Lower	Upper
45	100		
43	54.3	25.7	77.0

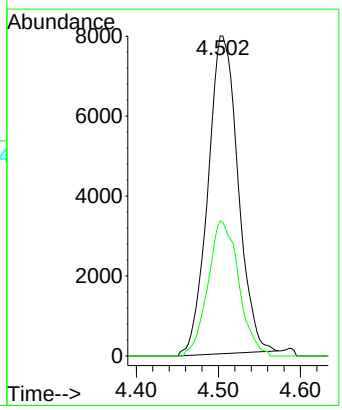


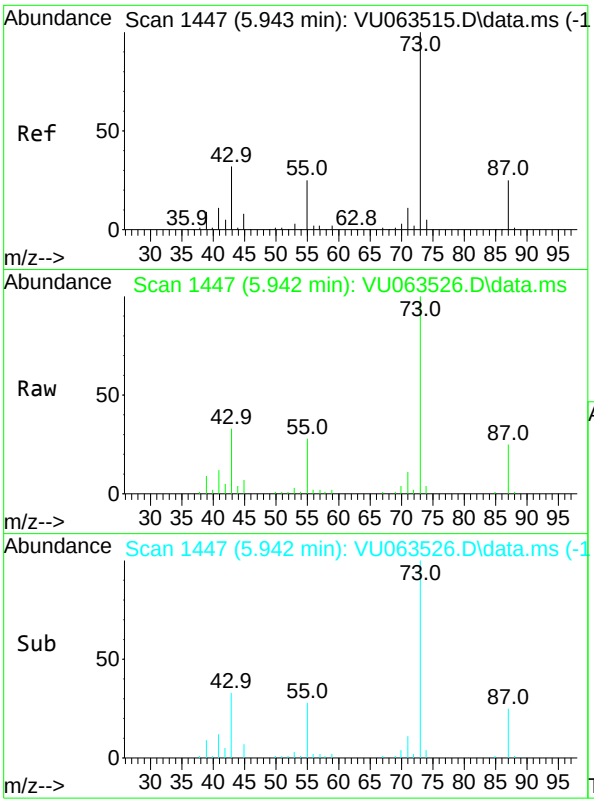


#32
Ethyl-t-butyl ether
Concen: 1.311 ug/l
RT: 4.502 min Scan# 999
Delta R.T. -0.000 min
Lab File: VU063526.D
Acq: 17 Jul 2025 15:48

Tgt Ion: 59 Resp: 20283

Ion	Ratio	Lower	Upper
59	100		
87	43.5	32.6	49.0



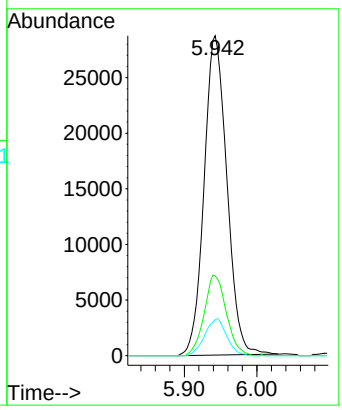


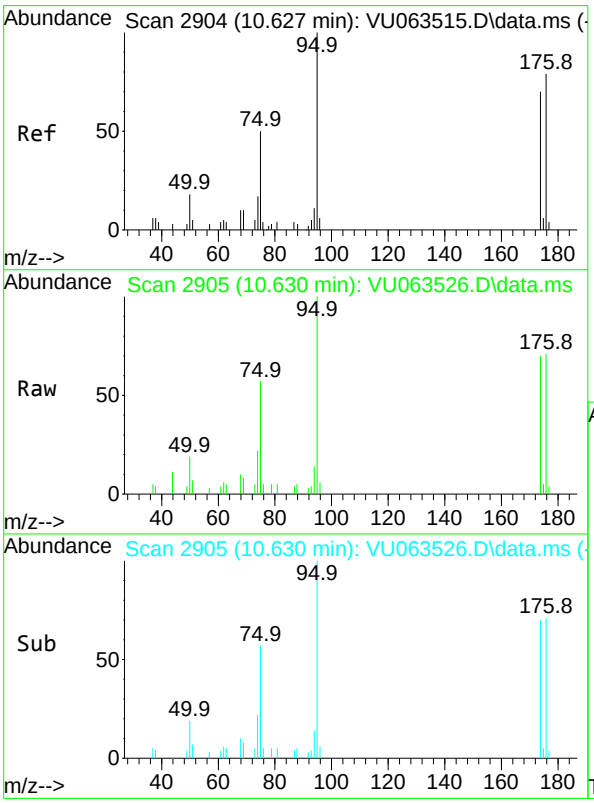
#33
Tert-Amyl methyl ether
Concen: 4.669 ug/l
RT: 5.942 min Scan# 14
Delta R.T. -0.000 min
Lab File: VU063526.D
Acq: 17 Jul 2025 15:48

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WSDL

Tgt Ion: 73 Resp: 62681

Ion	Ratio	Lower	Upper
73	100		
87	24.5	19.4	29.2
71	11.1	8.9	13.3

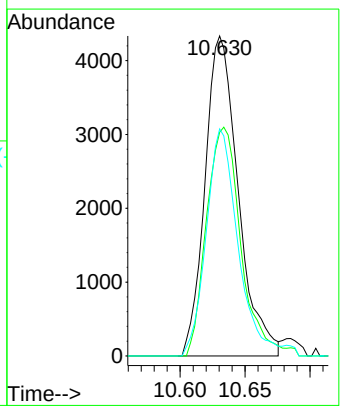


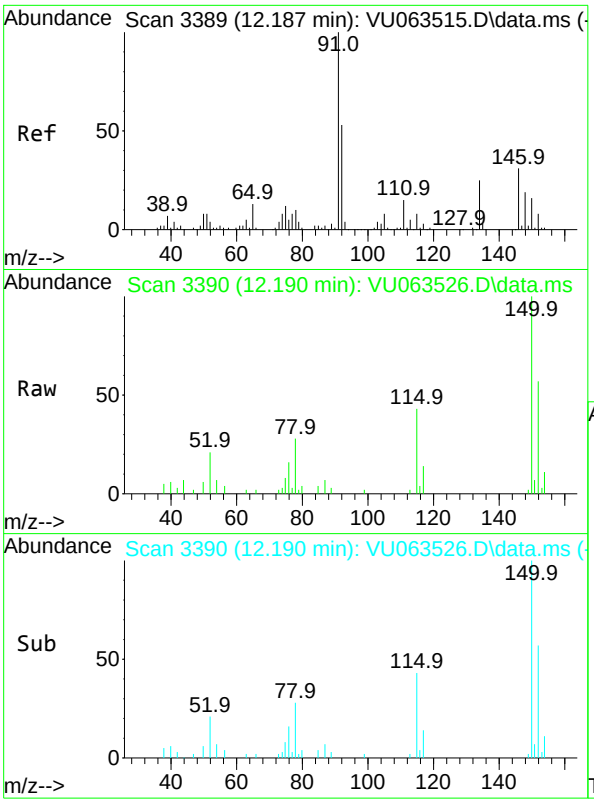


#57
4-Bromofluorobenzene
Concen: 1.005 ug/l
RT: 10.630 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VU063526.D
Acq: 17 Jul 2025 15:48

Tgt Ion: 95 Resp: 7712

Ion	Ratio	Lower	Upper
95	100		
174	74.3	59.8	89.8
176	67.7	61.8	92.8



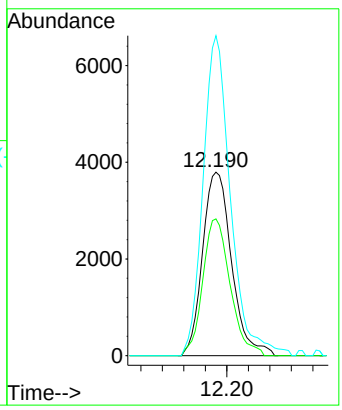


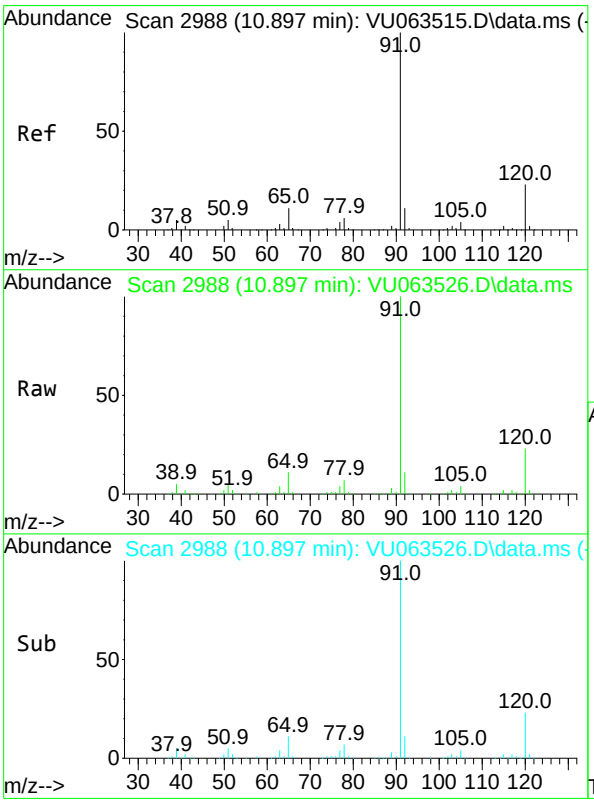
#68
1,2-Dichlorobenzene-d4
Concen: 1.003 ug/l
RT: 12.190 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063526.D
Acq: 17 Jul 2025 15:48

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-ADD-WSDL

Tgt Ion:152 Resp: 7114

Ion	Ratio	Lower	Upper
152	100		
115	70.3	0.0	262.2
150	164.5	0.0	651.2

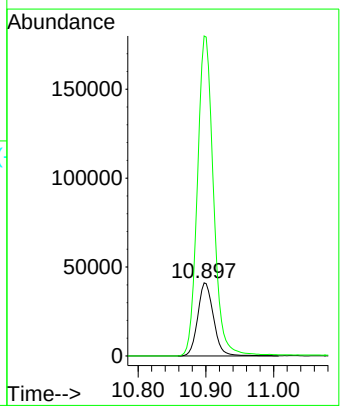




#73
n-propylbenzene
Concen: 9.514 ug/l
RT: 10.897 min Scan# 2988
Delta R.T. -0.000 min
Lab File: VU063526.D
Acq: 17 Jul 2025 15:48

Tgt Ion:120 Resp: 66619

Ion	Ratio	Lower	Upper
120	100		
91	444.4	343.1	514.7



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: ALLI03

Lab Code: ACE SDG No.: Q2552

Instrument ID: MSVOA_U Calibration Date(s): 07/16/2025 07/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:24 12:11

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

LAB FILE ID: RRF0.5 = VU063511.D RRF001 = VU063512.D RRF002 = VU063513.D
RRF005 = VU063514.D RRF010 = VU063515.D RRF015 = VU063516.D

COMPOUND	RRF0.5	RRF001	RRF002	RRF005	RRF010	RRF015	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.297	0.288	0.281	0.290	0.296	0.317	0.295	4.1
Chloromethane	0.269	0.291	0.261	0.270	0.268	0.285	0.274	4.1
Vinyl Chloride	0.338	0.353	0.333	0.340	0.355	0.376	0.349	4.5
Bromomethane	0.275	0.289	0.267	0.252	0.244	0.254	0.263	6.4
Chloroethane	0.208	0.212	0.199	0.207	0.214	0.226	0.211	4.3
Tetrahydrofuran	0.079	0.054	0.054	0.050	0.052	0.055	0.057	18.6
Trichlorofluoromethane	0.493	0.508	0.471	0.494	0.509	0.532	0.501	4.1
1,1,2-Trichloro-1,2,2-trifluoroeth	0.248	0.267	0.252	0.261	0.266	0.278	0.262	4.1
tert-Butyl Alcohol		0.025	0.022	0.023	0.024	0.025	0.024	5.8
Diethyl Ether	0.172	0.202	0.194	0.199	0.206	0.213	0.198	7.2
1,1-Dichloroethene	0.260	0.262	0.241	0.256	0.265	0.274	0.260	4.3
Acrylonitrile	0.067	0.069	0.064	0.062	0.063	0.063	0.065	4.3
Acetone	0.055	0.049	0.053	0.045	0.050	0.061	0.052	10.7
Carbon Disulfide	0.817	0.848	0.786	0.819	0.861	0.900	0.839	4.8
Methyl tert-Butyl Ether	0.635	0.700	0.646	0.666	0.693	0.727	0.678	5.2
Methyl acrylate	0.162	0.161	0.140	0.152	0.168	0.174	0.160	7.7
Methylene Chloride	0.327	0.328	0.287	0.290	0.293	0.308	0.306	6.1
trans-1,2-Dichloroethene	0.287	0.312	0.278	0.284	0.298	0.310	0.295	4.7
1,1-Dichloroethane	0.530	0.569	0.520	0.539	0.549	0.572	0.546	3.8
Cyclohexane	0.451	0.495	0.435	0.449	0.462	0.484	0.463	4.9
2-Butanone	0.080	0.081	0.079	0.074	0.080	0.090	0.081	6.4
Carbon Tetrachloride	0.333	0.383	0.362	0.381	0.392	0.435	0.381	8.8
2,2-Dichloropropane	0.482	0.487	0.447	0.433	0.454	0.489	0.465	5.1
cis-1,2-Dichloroethene	0.310	0.347	0.298	0.309	0.320	0.335	0.320	5.6
Bromochloromethane	0.128	0.131	0.127	0.132	0.138	0.145	0.134	5.1
Chloroform	0.551	0.584	0.537	0.543	0.547	0.583	0.558	3.7
1,1,1-Trichloroethane	0.457	0.477	0.449	0.471	0.482	0.505	0.473	4.2
Methylcyclohexane	0.442	0.440	0.402	0.406	0.490	0.519	0.450	10.3
1,1-Dichloropropene	0.413	0.455	0.432	0.430	0.434	0.468	0.438	4.5
Propionitrile	0.025	0.026	0.024	0.025	0.023	0.024	0.025	3.8

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

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ALLI03

Lab Code: ACE SDG No.: Q2552

Instrument ID: MSVOA_U Calibration Date(s): 07/16/2025 07/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:24 12:11

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

LAB FILE ID: RRF0.5 = VU063511.D RRF001 = VU063512.D RRF002 = VU063513.D
RRF005 = VU063514.D RRF010 = VU063515.D RRF015 = VU063516.D

COMPOUND	RRF0.5	RRF001	RRF002	RRF005	RRF010	RRF015	$\overline{RRF}$	% RSD
Benzene	1.218	1.011	1.165	1.205	1.202	1.269	1.178	7.5
1,2-Dichloroethane	0.360	0.332	0.363	0.371	0.376	0.394	0.366	5.7
Trichloroethene	0.314	0.283	0.269	0.271	0.323	0.345	0.301	10.3
1,2-Dichloropropane	0.235	0.261	0.251	0.258	0.315	0.334	0.276	14.4
1-Chlorobutane	0.575	0.575	0.553	0.583	0.591	0.621	0.583	3.9
Dibromomethane	0.132	0.134	0.131	0.138	0.154	0.168	0.143	10.4
Bromodichloromethane	0.304	0.304	0.300	0.310	0.328	0.388	0.322	10.4
4-Methyl-2-Pentanone	0.136	0.147	0.136	0.146	0.152	0.166	0.147	7.8
Toluene	0.582	0.650	0.596	0.642	0.671	0.718	0.643	7.8
t-1,3-Dichloropropene	0.213	0.231	0.223	0.250	0.285	0.313	0.253	15.5
cis-1,3-Dichloropropene	0.284	0.311	0.292	0.334	0.362	0.452	0.339	18.4
1,1,2-Trichloroethane	0.173	0.197	0.180	0.191	0.202	0.211	0.192	7.4
1,3-Dichloropropane	0.310	0.327	0.318	0.330	0.344	0.364	0.332	5.8
2-Hexanone	0.090	0.097	0.087	0.096	0.103	0.114	0.098	10
Dibromochloromethane	0.165	0.184	0.185	0.206	0.232	0.248	0.203	15.5
1,2-Dibromoethane	0.164	0.169	0.161	0.171	0.179	0.189	0.172	5.9
Tetrachloroethene	0.254	0.279	0.266	0.270	0.285	0.295	0.275	5.4
Chlorobenzene	0.680	0.735	0.686	0.732	0.771	0.828	0.739	7.5
1,1,1,2-Tetrachloroethane	0.211	0.236	0.218	0.233	0.254	0.273	0.238	9.6
Hexachloroethane	0.134	0.146	0.143	0.170	0.192	0.213	0.166	18.7
Ethyl Benzene	1.195	1.261	1.191	1.259	1.314	1.408	1.271	6.4
m/p-Xylenes	0.459	0.470	0.464	0.488	0.519	0.564	0.494	8.2
o-Xylene	0.428	0.462	0.432	0.473	0.504	0.550	0.475	9.8
Styrene	0.649	0.715	0.690	0.764	0.823	0.900	0.757	12.2
Bromoform	0.096	0.085	0.092	0.105	0.118	0.131	0.104	16.8
Isopropylbenzene	1.016	1.118	1.057	1.148	1.230	1.318	1.148	9.7
1,1,2,2-Tetrachloroethane	0.222	0.229	0.217	0.230	0.243	0.264	0.234	7.3
1,2,3-Trichloropropane	0.171	0.198	0.182	0.177	0.208	0.204	0.190	8
Bromobenzene	0.284	0.283	0.265	0.293	0.309	0.343	0.296	9.1
n-propylbenzene	0.303	0.327	0.323	0.344	0.375	0.402	0.346	10.6

* 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: ALLI03

Lab Code: ACE SDG No.: Q2552

Instrument ID: MSVOA_U Calibration Date(s): 07/16/2025 07/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:24 12:11

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

LAB FILE ID: RRF0.5 = VU063511.D RRF001 = VU063512.D RRF002 = VU063513.D
RRF005 = VU063514.D RRF010 = VU063515.D RRF015 = VU063516.D

COMPOUND	RRF0.5	RRF001	RRF002	RRF005	RRF010	RRF015	$\overline{RRF}$	% RSD
2-Chlorotoluene	0.278	0.298	0.285	0.301	0.322	0.349	0.305	8.6
1,3,5-Trimethylbenzene	0.966	1.036	1.013	1.102	1.182	1.280	1.097	10.7
4-Chlorotoluene	0.269	0.300	0.296	0.311	0.330	0.355	0.310	9.5
tert-Butylbenzene	0.954	0.987	0.975	1.042	1.123	1.207	1.048	9.4
1,2,4-Trimethylbenzene	0.953	1.029	1.004	1.096	1.178	1.268	1.088	10.8
sec-Butylbenzene	1.226	1.376	1.304	1.417	1.516	1.641	1.413	10.5
p-Isopropyltoluene	1.023	1.104	1.091	1.202	1.275	1.384	1.180	11.3
1,3-Dichlorobenzene	0.539	0.571	0.543	0.594	0.629	0.681	0.593	9.2
1,4-Dichlorobenzene	0.512	0.572	0.539	0.590	0.635	0.711	0.593	12.1
n-Butylbenzene	0.933	1.004	0.985	1.113	1.211	1.319	1.094	13.6
1,2-Dichlorobenzene	0.504	0.538	0.502	0.552	0.597	0.649	0.557	10.2
1,2-Dibromo-3-Chloropropane	0.024	0.027	0.031	0.034	0.040	0.044	0.033	23.1
1,2,4-Trichlorobenzene	0.304	0.313	0.310	0.341	0.385	0.425	0.346	14.1
Hexachlorobutadiene	0.179	0.185	0.180	0.195	0.211	0.231	0.197	10.5
Naphthalene		0.533	0.520	0.587	0.679	0.785	0.621	17.9
1,2,3-Trichlorobenzene	0.269	0.294	0.283	0.321	0.352	0.400	0.320	15.3
1,2-Dichlorobenzene-d4	0.318	0.364	0.326	0.342	0.359	0.392	0.350	7.7
4-Bromofluorobenzene	0.373	0.410	0.361	0.361	0.369	0.398	0.379	5.4
Iodomethane		0.238	0.241	0.306	0.369	0.413	0.314	24.7
Allyl Chloride	0.346	0.373	0.389	0.359	0.382	0.401	0.375	5.4
Methacrylonitrile	0.139	0.105	0.107	0.096	0.101	0.106	0.109	13.9
Isopropyl Ether	0.796	0.855	0.789	0.810	0.831	0.867	0.825	3.9
Methyl methacrylate	0.107	0.107	0.108	0.117	0.127	0.154	0.120	15.3

* 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_U

Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\
Method File : 524U071625DW.M
Title : METHOD 524.2 VOLATILES DRINKING WATER
Last Update : Thu Jul 17 03:49:40 2025
Response Via : Initial Calibration

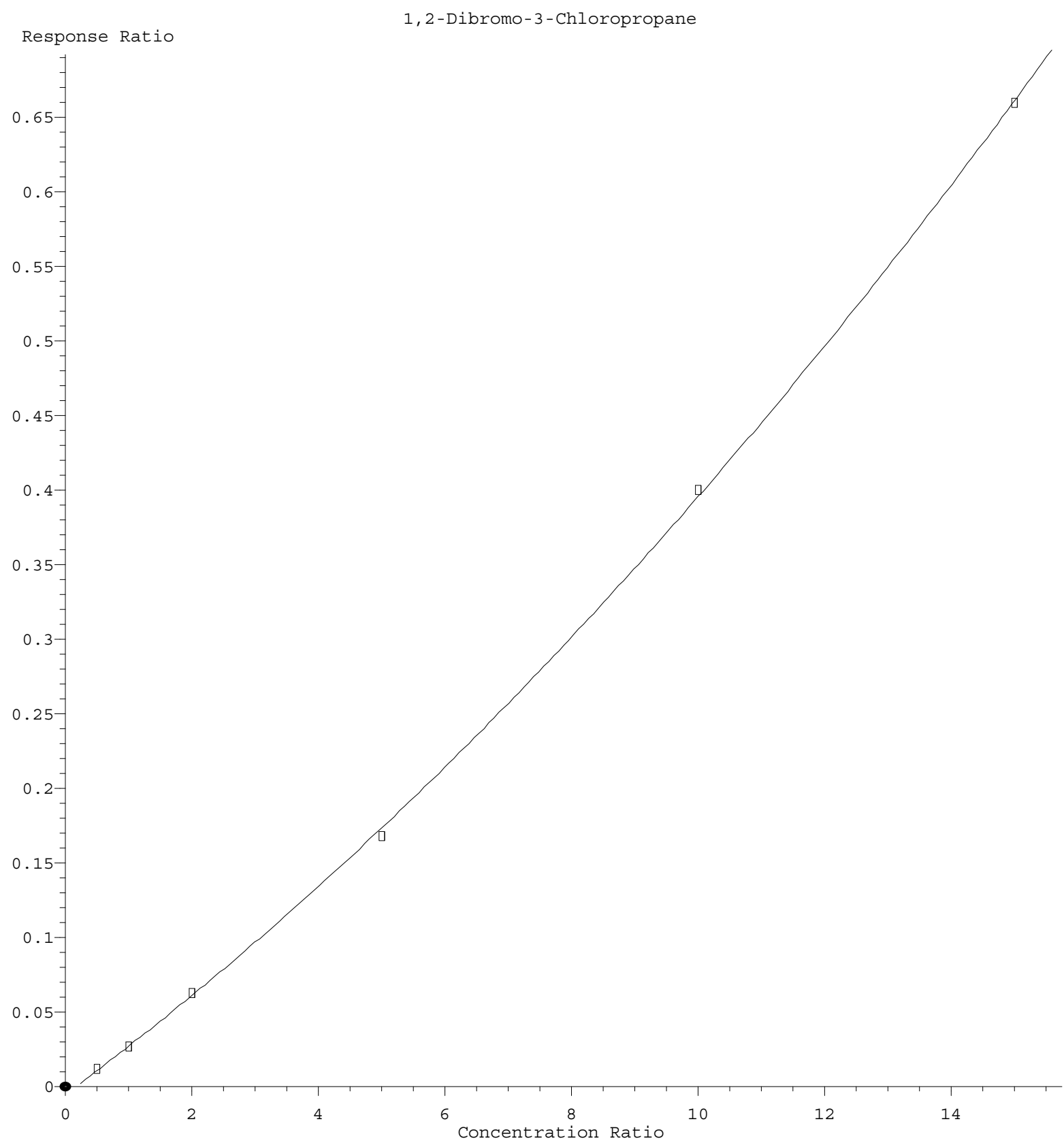
Calibration Files
0.5 =VU063511.D 1 =VU063512.D 2 =VU063513.D 5 =VU063514.D 10 =VU063515.D 15 =VU063516.D

		Compound	0.5	1	2	5	10	15	Avg	%RSD
1)	i	Fluorobenzene	----------	ISTD	----------					
2)	T	Dichlorodifluo...	0.297	0.288	0.281	0.290	0.296	0.317	0.295	4.12
3)	t	Chloromethane	0.269	0.291	0.261	0.270	0.268	0.285	0.274	4.08
4)	Rt	Vinyl Chloride	0.338	0.353	0.333	0.340	0.355	0.376	0.349	4.46
5)	T	Bromomethane	0.275	0.289	0.267	0.252	0.244	0.254	0.263	6.39
6)	T	Chloroethane	0.208	0.212	0.199	0.207	0.214	0.226	0.211	4.25
7)	T	Trichlorofluor...	0.493	0.508	0.471	0.494	0.509	0.532	0.501	4.10
8)		1,1,2-Trichlor...	0.248	0.267	0.252	0.261	0.266	0.278	0.262	4.11
9)	Rt	1,1-Dichloroet...	0.260	0.262	0.241	0.256	0.265	0.274	0.260	4.27
10)	t	Iodomethane		0.238	0.241	0.306	0.369	0.413	0.314	24.71
11)	t	Allyl Chloride	0.346	0.373	0.389	0.359	0.382	0.401	0.375	5.38
12)	t	Acrylonitrile	0.067	0.069	0.064	0.062	0.063	0.063	0.065	4.27
13)	T	Acetone	0.055	0.049	0.053	0.045	0.050	0.061	0.052	10.71
14)	T	Carbon Disulfide	0.817	0.848	0.786	0.819	0.861	0.900	0.839	4.77
15)	RT	Methylene Chlo...	0.327	0.328	0.287	0.290	0.293	0.308	0.306	6.09
16)	RT	trans-1,2-Dich...	0.287	0.312	0.278	0.284	0.298	0.310	0.295	4.69
17)	t	1,1-Dichloroet...	0.530	0.569	0.520	0.539	0.549	0.572	0.546	3.82
18)	T	2-Butanone	0.080	0.081	0.079	0.074	0.080	0.090	0.081	6.36
19)		Cyclohexane	0.451	0.495	0.435	0.449	0.462	0.484	0.463	4.90
20)		Methylcyclohexane	0.442	0.440	0.402	0.406	0.490	0.519	0.450	10.30
21)	T	2,2-Dichloropr...	0.482	0.487	0.447	0.433	0.454	0.489	0.465	5.09
22)	RT	cis-1,2-Dichlo...	0.310	0.347	0.298	0.309	0.320	0.335	0.320	5.63
23)	t	Diethyl Ether	0.172	0.202	0.194	0.199	0.206	0.213	0.198	7.18
24)	t	tert-Butyl Alc...		0.025	0.022	0.023	0.024	0.025	0.024	5.81
25)	t	Methyl tert-Bu...	0.635	0.700	0.646	0.666	0.693	0.727	0.678	5.16
26)	t	Bromochloromet...	0.128	0.131	0.127	0.132	0.137	0.145	0.134	5.06
27)	t	Chloroform	0.551	0.584	0.537	0.543	0.547	0.583	0.558	3.73
28)	RT	1,1,1-Trichlor...	0.457	0.477	0.449	0.471	0.482	0.505	0.473	4.20
29)	T	1,1-Dichloropr...	0.413	0.455	0.432	0.430	0.434	0.468	0.438	4.51
30)	RT	Carbon Tetrach...	0.333	0.383	0.362	0.381	0.392	0.435	0.381	8.80
31)	t	Isopropyl Ether	0.796	0.855	0.789	0.810	0.831	0.867	0.825	3.86
32)		Ethyl-t-butyl ...	0.739	0.800	0.735	0.725	0.769	0.811	0.763	4.73
33)		Tert-Amyl meth...	0.683	0.601	0.655	0.652	0.666	0.719	0.663	5.88
34)	t	Propionitrile	0.025	0.026	0.024	0.025	0.023	0.024	0.025	3.80
35)	RT	Benzene	1.218	1.011	1.165	1.205	1.202	1.269	1.178	7.52
36)	RT	1,2-Dichloroet...	0.360	0.332	0.363	0.371	0.376	0.394	0.366	5.67
37)	RT	Trichloroethene	0.314	0.283	0.269	0.271	0.323	0.345	0.301	10.31
38)	Rt	1,2-Dichloropr...	0.235	0.261	0.251	0.258	0.315	0.334	0.276	14.35
39)	t	Methacrylonitrile	0.139	0.105	0.107	0.096	0.101	0.106	0.109	13.89
40)	t	Methyl acrylate	0.162	0.161	0.140	0.152	0.168	0.174	0.159	7.70
41)	t	Tetrahydrofuran	0.079	0.054	0.054	0.050	0.052	0.055	0.057	18.63
42)	t	1-Chlorobutane	0.575	0.575	0.553	0.583	0.591	0.621	0.583	3.91
43)	T	Dibromomethane	0.132	0.134	0.131	0.138	0.154	0.168	0.143	10.38
44)	T	Bromodichlorom...	0.304	0.304	0.300	0.310	0.328	0.388	0.322	10.45
45)	T	4-Methyl-2-Pen...	0.136	0.147	0.136	0.146	0.152	0.166	0.147	7.83
46)	t	t-1,4-Dichloro...	0.052	0.060	0.050	0.051	0.063	0.056	0.055	9.32
47)	t	Methyl methacr...	0.107	0.107	0.108	0.117	0.127	0.154	0.120	15.28
48)	t	Ethyl methacry...	0.206	0.200	0.218	0.226	0.252	0.271	0.229	11.94
49)	Rt	Toluene	0.582	0.650	0.596	0.642	0.671	0.718	0.643	7.75
50)	T	t-1,3-Dichloro...	0.213	0.231	0.223	0.250	0.285	0.313	0.253	15.47
51)	T	cis-1,3-Dichlo...	0.284	0.311	0.292	0.334	0.362	0.452	0.339	18.37
52)	RT	1,1,2-Trichlor...	0.173	0.197	0.180	0.191	0.202	0.211	0.192	7.42
53)	t	1,3-Dichloropr...	0.310	0.327	0.318	0.330	0.344	0.364	0.332	5.82
54)	t	2-Hexanone	0.090	0.097	0.087	0.096	0.103	0.114	0.098	9.98
55)	t	Dibromochlorom...	0.165	0.184	0.185	0.206	0.232	0.248	0.203	15.53
56)	T	1,2-Dibromoethane	0.164	0.169	0.161	0.171	0.179	0.189	0.172	5.92
57)	S	4-Bromofluorob...	0.373	0.410	0.361	0.361	0.369	0.398	0.379	5.40

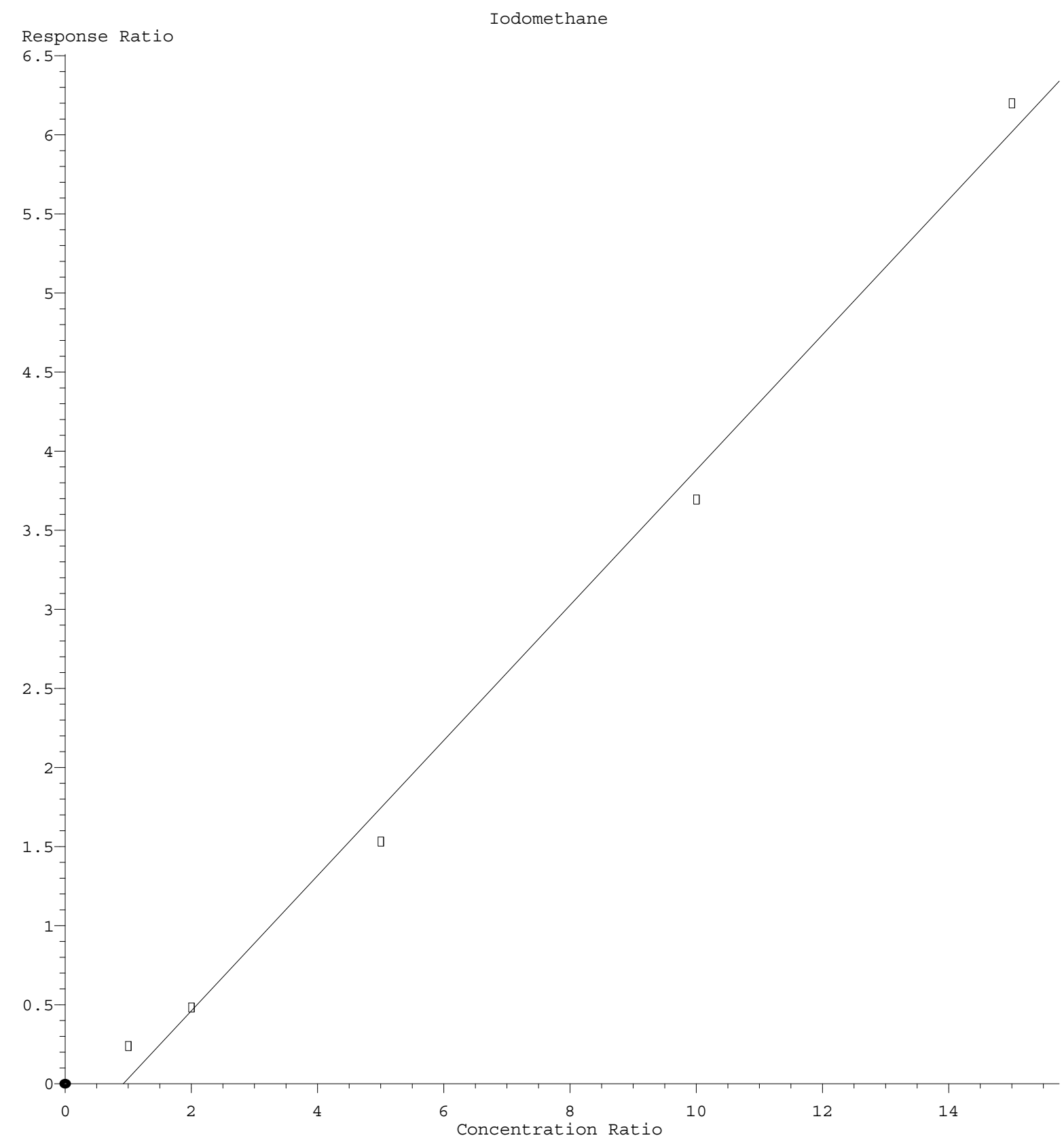
Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\
Method File : 524U071625DW.M

58)	RT	Tetrachloroethene	0.254	0.279	0.266	0.270	0.285	0.295	0.275	5.39
59)	Rt	Chlorobenzene	0.680	0.735	0.686	0.732	0.771	0.828	0.739	7.52
60)	T	1,1,1,2-Tetrac...	0.211	0.236	0.218	0.233	0.254	0.273	0.238	9.63
61)	t	Pentachloroethane	0.148	0.150	0.148	0.169	0.186	0.207	0.168	14.57
62)	t	Hexachloroethane	0.134	0.146	0.143	0.170	0.192	0.213	0.166	18.74
63)	Rt	Ethyl Benzene	1.195	1.261	1.191	1.259	1.314	1.408	1.271	6.40
64)	RT	m/p-Xylenes	0.459	0.470	0.464	0.488	0.519	0.564	0.494	8.22
65)	RT	o-Xylene	0.428	0.462	0.432	0.473	0.504	0.550	0.475	9.75
66)	RT	Styrene	0.649	0.715	0.690	0.764	0.823	0.900	0.757	12.22
67)	t	Bromoform	0.096	0.085	0.092	0.105	0.118	0.131	0.104	16.81
68)	S	1,2-Dichlorobe...	0.318	0.364	0.326	0.342	0.359	0.392	0.350	7.68
69)	T	Isopropylbenzene	1.016	1.118	1.057	1.148	1.230	1.318	1.148	9.72
70)	T	1,1,2,2-Tetrac...	0.222	0.229	0.217	0.230	0.243	0.264	0.234	7.34
71)	T	1,2,3-Trichlor...	0.171	0.198	0.182	0.177	0.208	0.204	0.190	8.02
72)	t	Bromobenzene	0.284	0.283	0.265	0.293	0.309	0.343	0.296	9.11
73)	t	n-propylbenzene	0.303	0.327	0.323	0.344	0.375	0.402	0.346	10.58
74)	t	2-Chlorotoluene	0.278	0.298	0.285	0.301	0.322	0.349	0.305	8.59
75)	t	1,3,5-Trimethy...	0.966	1.036	1.013	1.102	1.182	1.280	1.097	10.69
76)	t	4-Chlorotoluene	0.269	0.300	0.296	0.311	0.330	0.355	0.310	9.49
77)	t	tert-Butylbenzene	0.954	0.987	0.975	1.042	1.123	1.207	1.048	9.44
78)	t	1,2,4-Trimethy...	0.953	1.029	1.004	1.096	1.178	1.268	1.088	10.83
79)	t	sec-Butylbenzene	1.226	1.376	1.304	1.417	1.516	1.641	1.413	10.53
80)		Nitrobenzene	0.002	0.004	0.003	0.004	0.005	0.006	0.004	34.42
81)	t	p-Isopropyltol...	1.023	1.104	1.091	1.202	1.275	1.384	1.180	11.33
82)	t	1,3-Dichlorobe...	0.539	0.571	0.543	0.594	0.629	0.681	0.593	9.16
83)	Rt	1,4-Dichlorobe...	0.512	0.572	0.539	0.590	0.635	0.711	0.593	12.06
84)	t	n-Butylbenzene	0.933	1.004	0.985	1.113	1.210	1.319	1.094	13.57
85)	Rt	1,2-Dichlorobe...	0.504	0.538	0.502	0.552	0.597	0.649	0.557	10.23
86)	t	1,2-Dibromo-3-...	0.024	0.027	0.031	0.034	0.040	0.044	0.033	23.11
87)	Rt	1,2,4-Trichlor...	0.304	0.313	0.310	0.341	0.385	0.425	0.346	14.06
88)	t	Hexachlorobuta...	0.179	0.185	0.180	0.195	0.211	0.231	0.197	10.50
89)	t	Naphthalene		0.533	0.520	0.587	0.679	0.785	0.621	17.89
90)	t	1,2,3-Trichlor...	0.269	0.294	0.283	0.321	0.352	0.400	0.320	15.31

(#) = Out of Range



R = 8.705e-004 A*A + 3.135e-002 A - 5.068e-003
Coef of Det (r^2) = 0.999831 Curve Fit: Quadratic
Method Name: Z:\rpdsrv\HPCHEM1\MSVOA U\Method\524U071625DW.M
Calibration Table Last Updated: Thu Jul 17 03:49:40 2025



Response = 4.273e-001 * Amt - 3.914e-001
Coef of Det (r^2) = 0.993851 Curve Fit: Linear
Method Name: Z:\ms\srv\HPCHEM1\MSVOA U\Method\524U071625DW.M
Calibration Table Last Updated: Thu Jul 17 03:49:40 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063511.D
Acq On : 16 Jul 2025 09:24
Operator : MD/SY
Sample : VSTDICC0.5
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:21:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	25423	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	9489	0.986	ug/l	0.00
Spiked Amount 1.000			Recovery = 99.000%			
68) 1,2-Dichlorobenzene-d4	12.187	152	8092	0.909	ug/l	0.00
Spiked Amount 1.000			Recovery = 91.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.380	85	3779	0.504	ug/l	95
3) Chloromethane	1.518	50	3425	0.492	ug/l	97
4) Vinyl Chloride	1.599	62	4301	0.485	ug/l	98
5) Bromomethane	1.850	94	3492	0.522	ug/l	92
6) Chloroethane	1.927	64	2643	0.493	ug/l	94
7) Trichlorofluoromethane	2.129	101	6269	0.492	ug/l	97
8) 1,1,2-Trichloro-1,2,2-...	2.570	101	3157	0.474	ug/l	97
9) 1,1-Dichloroethene	2.570	96	3303	0.500	ug/l	91
11) Allyl Chloride	2.911	41	4399	0.461	ug/l	97
12) Acrylonitrile	3.309	53	1715m	1.038	ug/l	
13) Acetone	2.618	43	3474	2.627	ug/l	98
14) Carbon Disulfide	2.782	76	10386	0.487	ug/l	99
15) Methylene Chloride	3.030	84	4161	0.535	ug/l	97
16) trans-1,2-Dichloroethene	3.338	96	3653	0.487	ug/l	92
17) 1,1-Dichloroethane	3.853	63	6739	0.485	ug/l	99
18) 2-Butanone	4.711	43	5053	2.467	ug/l	99
19) Cyclohexane	5.364	56	5734	0.487	ug/l	94
20) Methylcyclohexane	6.740	83	5613	0.491	ug/l	97
21) 2,2-Dichloropropane	4.644	77	6127	0.518	ug/l	97
22) cis-1,2-Dichloroethene	4.647	96	3941	0.484	ug/l	95
23) Diethyl Ether	2.370	59	2188	0.435	ug/l #	82
25) Methyl tert-Butyl Ether	3.361	73	8075	0.469	ug/l #	91
26) Bromochloromethane	4.956	128	1623	0.478	ug/l	93
27) Chloroform	5.075	83	7007	0.494	ug/l	98
28) 1,1,1-Trichloroethane	5.296	97	5809	0.483	ug/l	99
29) 1,1-Dichloropropene	5.505	75	5244	0.470	ug/l #	91
30) Carbon Tetrachloride	5.505	117	4239	0.438	ug/l	95
31) Isopropyl Ether	3.994	45	10123	0.483	ug/l	100
32) Ethyl-t-butyl ether	4.502	59	9396	0.484	ug/l	97
33) Tert-Amyl methyl ether	5.943	73	8680	0.515	ug/l	97
34) Propionitrile	4.779	54	1601m	2.565	ug/l	
35) Benzene	5.759	78	15477	0.517	ug/l	96
36) 1,2-Dichloroethane	5.782	62	4577	0.492	ug/l	99
37) Trichloroethene	6.528	130	3989	0.522	ug/l	95
38) 1,2-Dichloropropane	6.782	63	2987	0.426	ug/l	91
39) Methacrylonitrile	4.981	41	1767m	0.645	ug/l	
40) Methyl acrylate	4.846	55	2059	0.508	ug/l #	88
41) Tetrahydrofuran	5.062	42	2008	1.376	ug/l #	77
42) 1-Chlorobutane	5.441	56	7303	0.493	ug/l	93
43) Dibromomethane	6.907	93	1679	0.462	ug/l	94
44) Bromodichloromethane	7.097	83	3861	0.471	ug/l	95
45) 4-Methyl-2-Pentanone	7.801	43	8613	2.301	ug/l	98
46) t-1,4-Dichloro-2-butene	10.827	75	1314m	0.990	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063511.D
Acq On : 16 Jul 2025 09:24
Operator : MD/SY
Sample : VSTDICC0.5
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:21:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) Methyl methacrylate	6.968	69	2712	0.889	ug/l		89
48) Ethyl methacrylate	8.341	69	2622	0.451	ug/l		82
49) Toluene	7.965	92	7397	0.452	ug/l		100
50) t-1,3-Dichloropropene	8.209	75	2708	0.421	ug/l		94
51) cis-1,3-Dichloropropene	7.602	75	3613	0.419	ug/l		93
52) 1,1,2-Trichloroethane	8.396	97	2194	0.449	ug/l		94
53) 1,3-Dichloropropane	8.570	76	3944	0.467	ug/l		96
54) 2-Hexanone	8.698	43	5691	2.289	ug/l		98
55) Dibromochloromethane	8.804	129	2097	0.406	ug/l		97
56) 1,2-Dibromoethane	8.920	107	2089	0.477	ug/l		92
58) Tetrachloroethene	8.544	164	3225	0.461	ug/l		95
59) Chlorobenzene	9.441	112	8639	0.460	ug/l		99
60) 1,1,1,2-Tetrachloroethane	9.528	131	2686	0.445	ug/l		99
61) Pentachloroethane	11.418	117	1880	0.441	ug/l		98
62) Hexachloroethane	12.467	117	1703	0.403	ug/l		99
63) Ethyl Benzene	9.566	91	15188	0.470	ug/l		95
64) m/p-Xylenes	9.689	106	11672	0.929	ug/l		91
65) o-Xylene	10.094	106	5435	0.450	ug/l		100
66) Styrene	10.113	104	8244	0.429	ug/l		100
67) Bromoform	10.283	173	1214	0.458	ug/l	#	90
69) Isopropylbenzene	10.476	105	12913	0.442	ug/l		94
70) 1,1,2,2-Tetrachloroethane	10.775	83	2820	0.474	ug/l	#	87
71) 1,2,3-Trichloropropane	10.817	75	2178m	0.449	ug/l		
72) Bromobenzene	10.778	156	3609	0.479	ug/l		93
73) n-propylbenzene	10.901	120	3852	0.438	ug/l		93
74) 2-Chlorotoluene	10.981	126	3528	0.454	ug/l		96
75) 1,3,5-Trimethylbenzene	11.081	105	12281	0.441	ug/l		99
76) 4-Chlorotoluene	11.097	126	3423	0.434	ug/l		99
77) tert-Butylbenzene	11.412	119	12124	0.455	ug/l		98
78) 1,2,4-Trimethylbenzene	11.463	105	12110	0.438	ug/l		99
79) sec-Butylbenzene	11.637	105	15578	0.434	ug/l		98
80) Nitrobenzene	13.229	77	131	2.628	ug/l	#	44
81) p-Isopropyltoluene	11.785	119	13001	0.433	ug/l		97
82) 1,3-Dichlorobenzene	11.743	146	6856	0.455	ug/l		97
83) 1,4-Dichlorobenzene	11.836	146	6510	0.432	ug/l		95
84) n-Butylbenzene	12.206	91	11864	0.427	ug/l		96
85) 1,2-Dichlorobenzene	12.206	146	6401	0.452	ug/l		97
86) 1,2-Dibromo-3-Chloropr...	12.991	75	302	0.533	ug/l		88
87) 1,2,4-Trichlorobenzene	13.843	180	3867	0.439	ug/l		98
88) Hexachlorobutadiene	14.013	225	2280	0.456	ug/l		92
90) 1,2,3-Trichlorobenzene	14.331	180	3421	0.420	ug/l		98

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

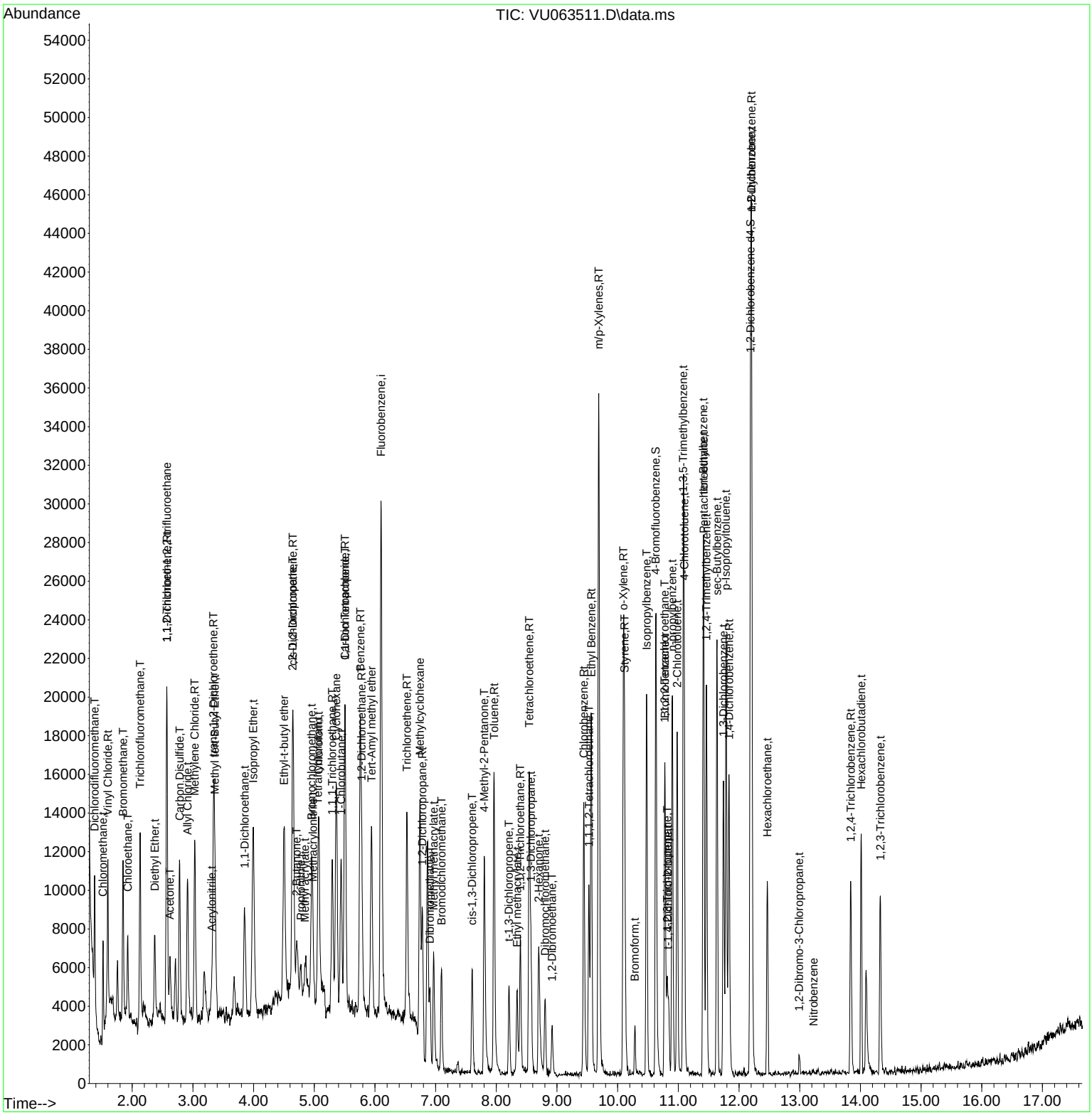
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063511.D
Acq On : 16 Jul 2025 09:24
Operator : MD/SY
Sample : VSTDICC0.5
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

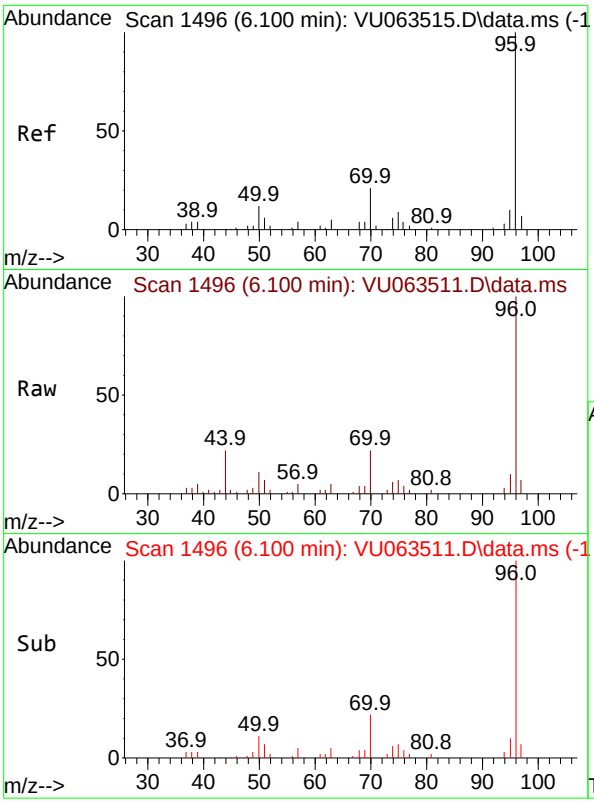
Quant Time: Jul 17 03:21:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025





#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.100 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

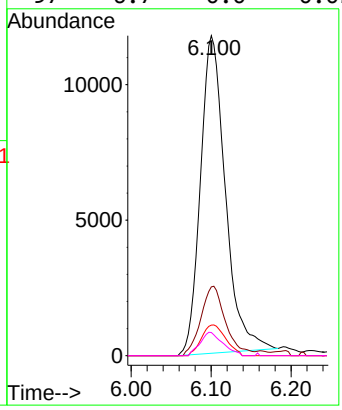
Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

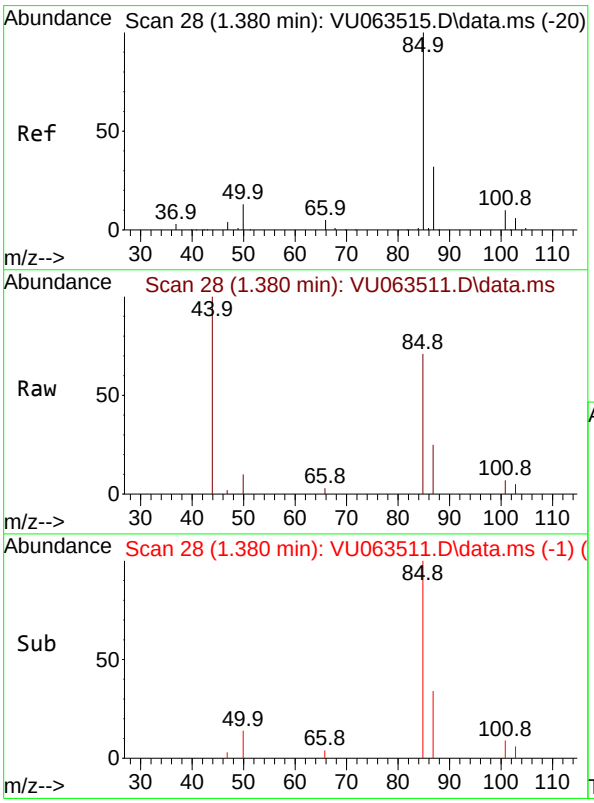
Tgt Ion: 96 Resp: 2542

Ion	Ratio	Lower	Upper
96	100		
70	20.1	15.0	22.4
95	9.4	7.4	11.0
97	6.7	0.0	0.0#

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

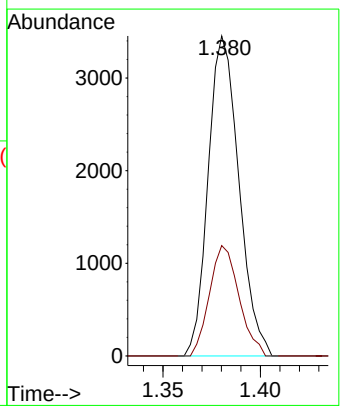


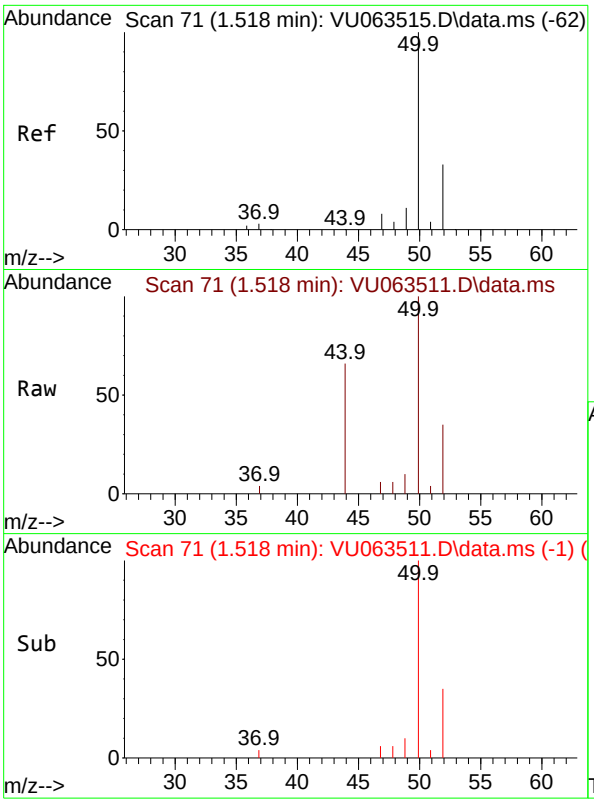


#2
Dichlorodifluoromethane
Concen: 0.504 ug/l
RT: 1.380 min Scan# 28
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 85 Resp: 3779

Ion	Ratio	Lower	Upper
85	100		
87	34.5	16.0	47.9

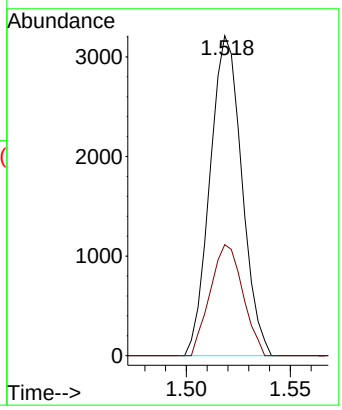




#3
Chloromethane
Concen: 0.492 ug/l
RT: 1.518 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 50 Resp: 342

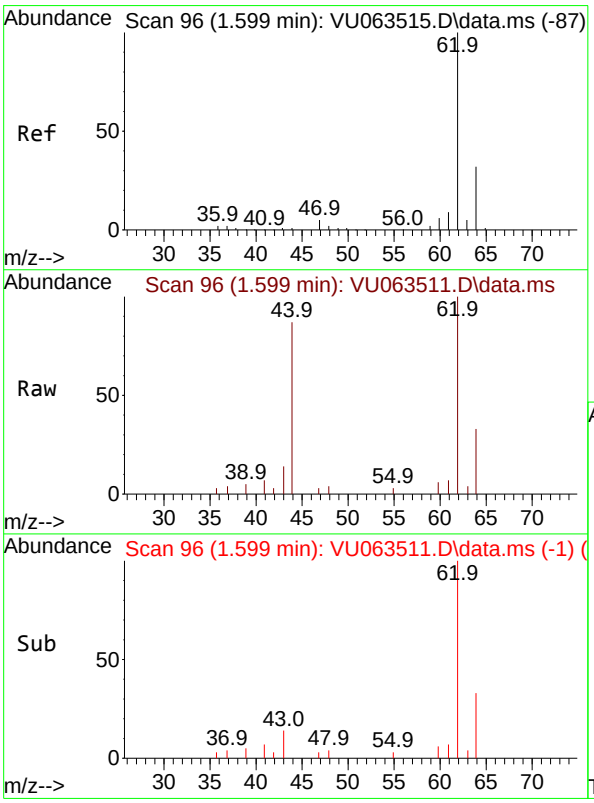
Ion	Ratio	Lower	Upper
50	100		
52	34.7	26.3	39.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

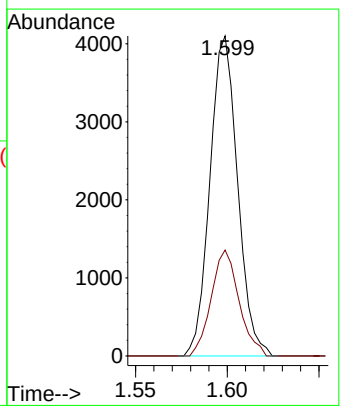
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

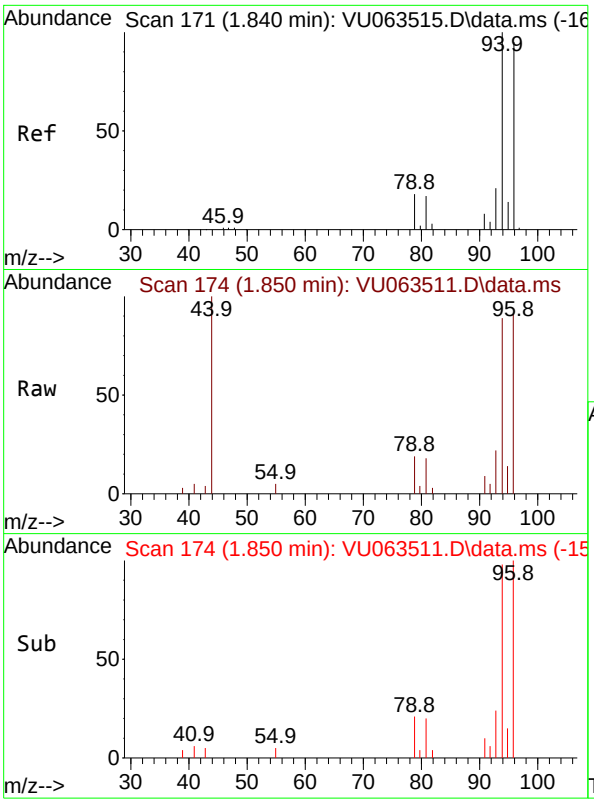


#4
Vinyl Chloride
Concen: 0.485 ug/l
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 62 Resp: 4301

Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.7	38.5

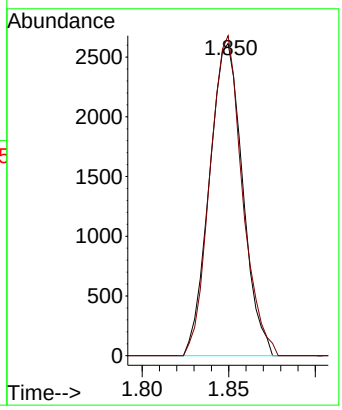




#5
Bromomethane
Concen: 0.522 ug/l
RT: 1.850 min Scan# 1
Delta R.T. 0.010 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 94 Resp: 349

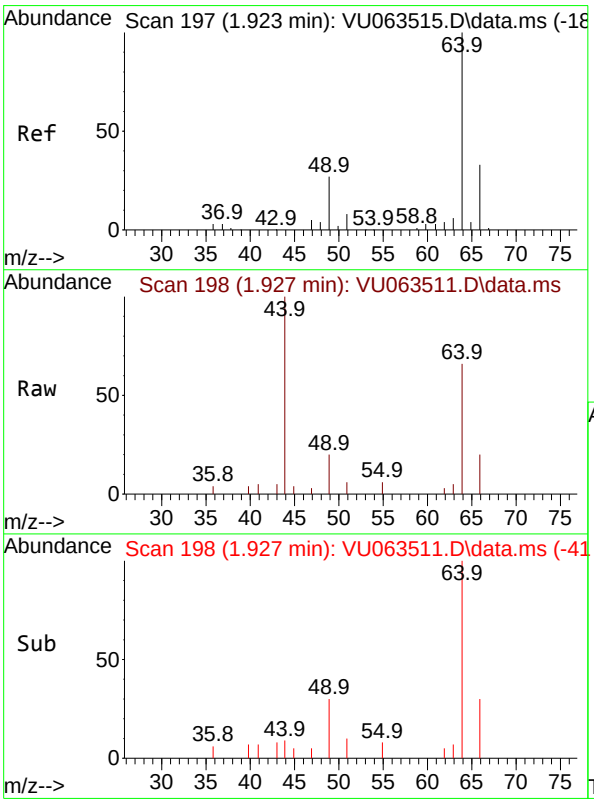
Ion	Ratio	Lower	Upper
94	100		
96	102.5	75.8	113.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

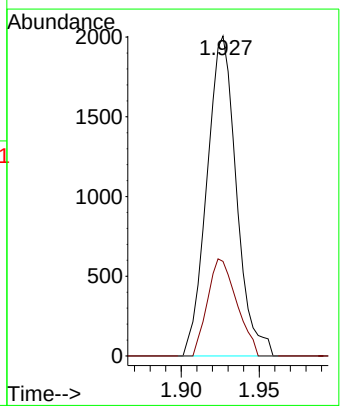
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

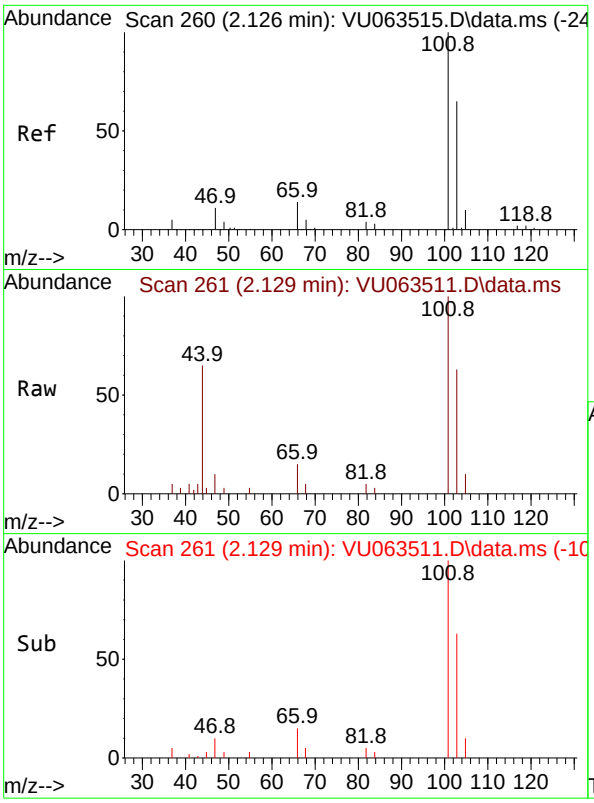


#6
Chloroethane
Concen: 0.493 ug/l
RT: 1.927 min Scan# 198
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 64 Resp: 2643

Ion	Ratio	Lower	Upper
64	100		
66	29.5	26.2	39.4





#7
Trichlorofluoromethane
Concen: 0.492 ug/l
RT: 2.129 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

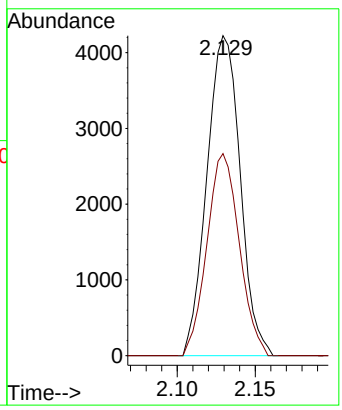
Tgt Ion:101 Resp: 626

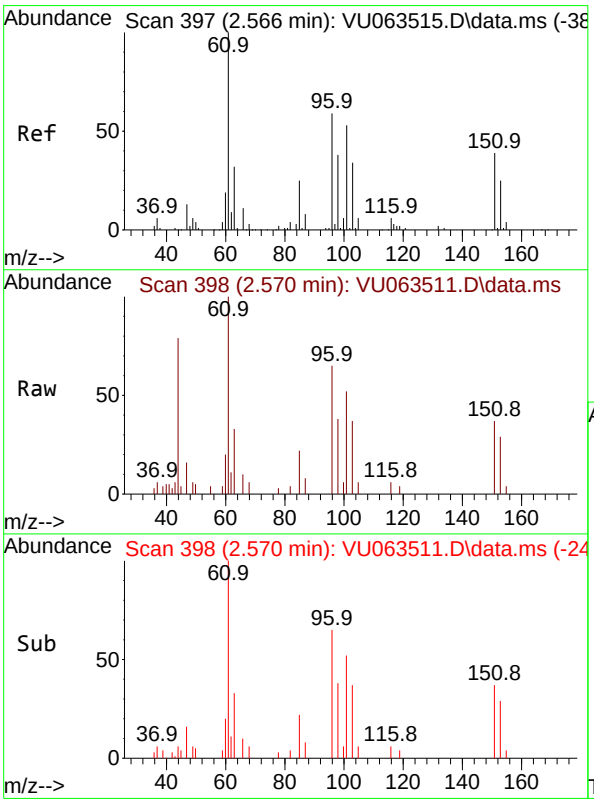
Ion	Ratio	Lower	Upper
101	100		
103	63.2	52.2	78.4

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

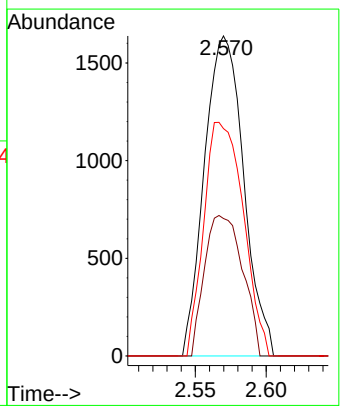


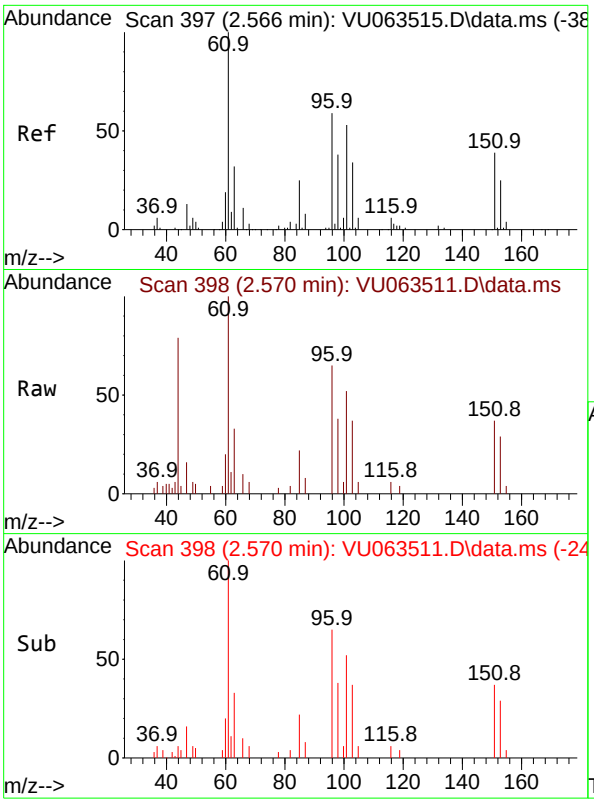


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.474 ug/l
RT: 2.570 min Scan# 398
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:101 Resp: 3157

Ion	Ratio	Lower	Upper
101	100		
85	42.5	37.8	56.6
151	73.3	59.2	88.8

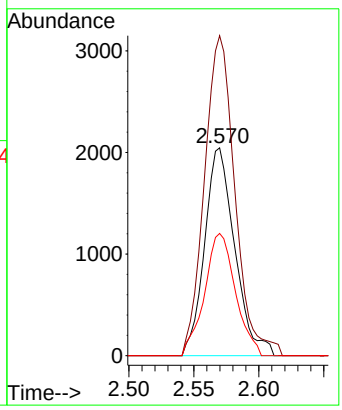




#9
1,1-Dichloroethene
Concen: 0.500 ug/l
RT: 2.570 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 96 Resp: 330

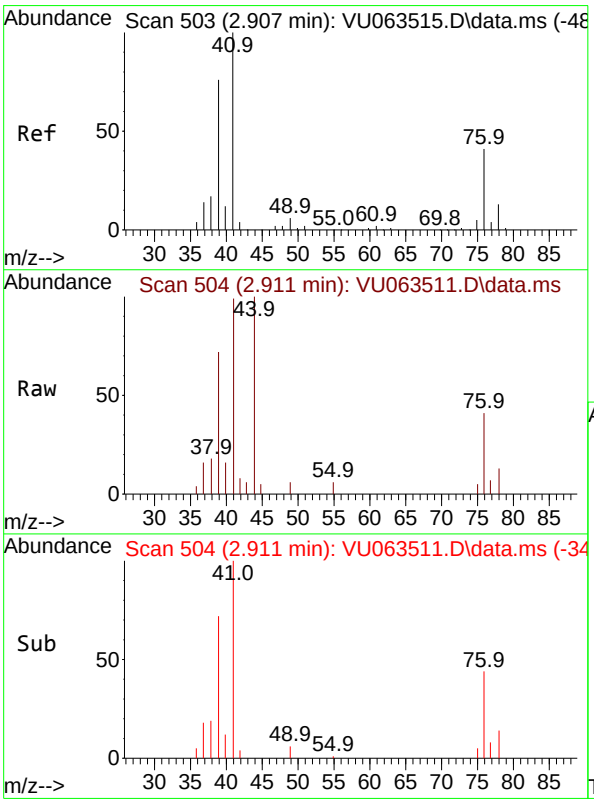
Ion	Ratio	Lower	Upper
96	100		
61	154.0	0.0	504.3
98	58.8	0.0	126.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

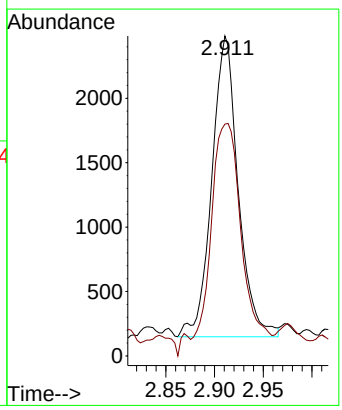
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

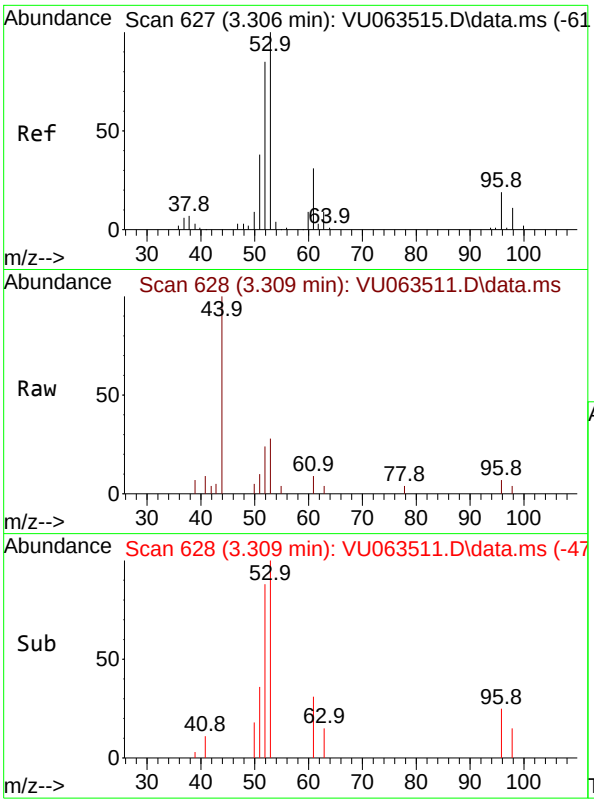


#11
Allyl Chloride
Concen: 0.461 ug/l
RT: 2.911 min Scan# 504
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 41 Resp: 4399

Ion	Ratio	Lower	Upper
41	100		
39	79.3	61.5	92.3

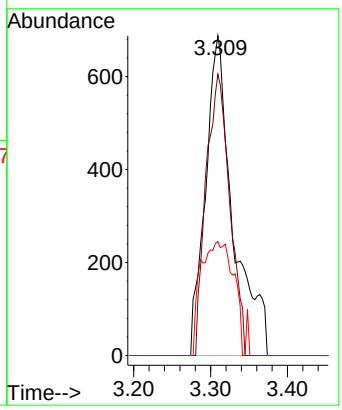




#12
Acrylonitrile
Concen: 1.038 ug/l m
RT: 3.309 min Scan# 6
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 53 Resp: 171

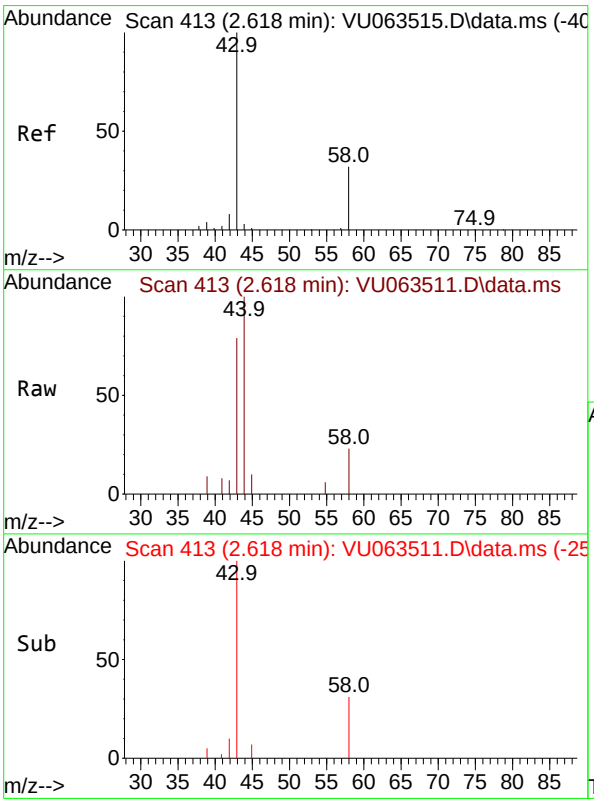
Ion	Ratio	Lower	Upper
53	100		
52	75.6	64.3	96.5
51	42.2	27.8	41.8#



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

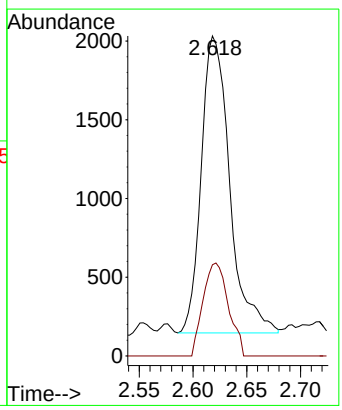
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

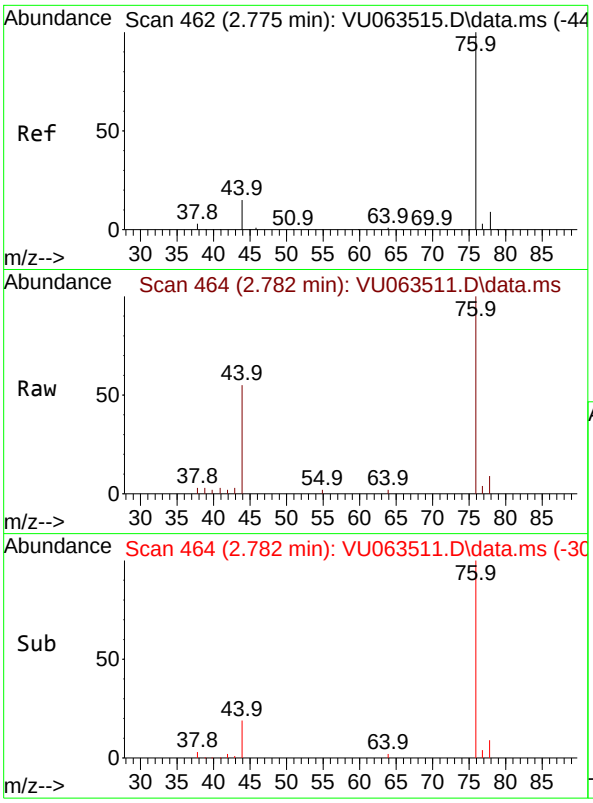


#13
Acetone
Concen: 2.627 ug/l
RT: 2.618 min Scan# 413
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 43 Resp: 3474

Ion	Ratio	Lower	Upper
43	100		
58	30.7	25.4	38.0

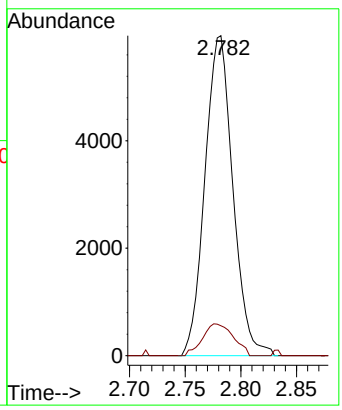




#14
Carbon Disulfide
Concen: 0.487 ug/l
RT: 2.782 min Scan# 4(
Delta R.T. 0.007 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 76 Resp: 1038(

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.0	10.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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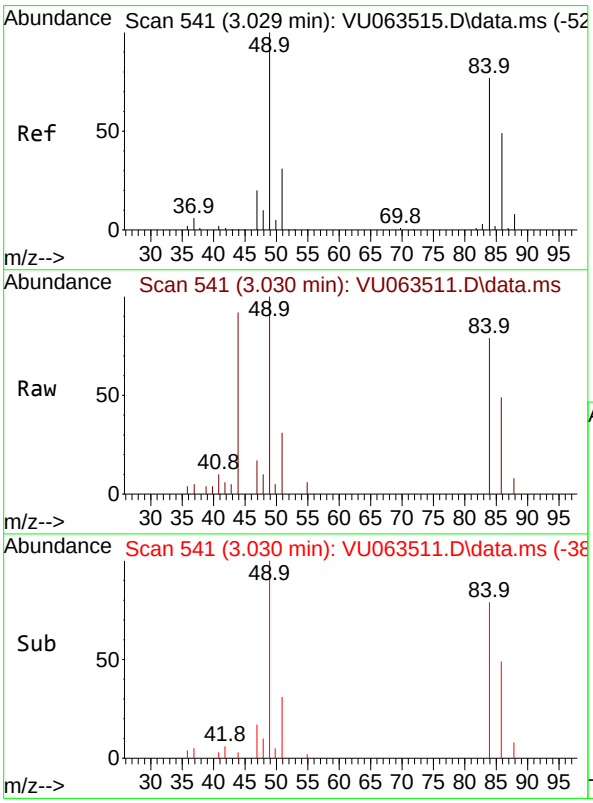
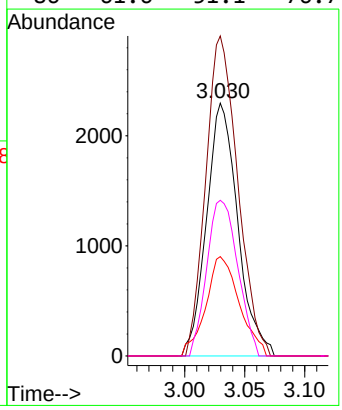
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

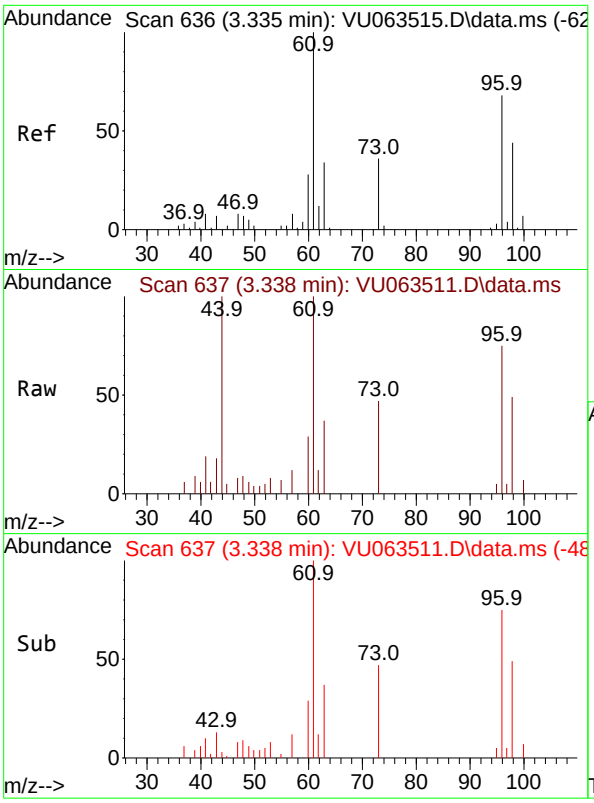


#15
Methylene Chloride
Concen: 0.535 ug/l
RT: 3.030 min Scan# 541
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 84 Resp: 4161

Ion	Ratio	Lower	Upper
84	100		
49	126.6	103.8	155.8
51	39.3	0.0	80.4
86	61.6	51.1	76.7

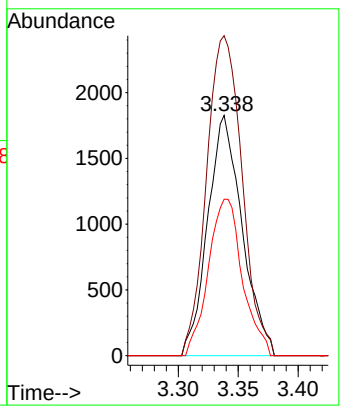




#16
trans-1,2-Dichloroethene
Concen: 0.487 ug/l
RT: 3.338 min Scan# 6
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 96 Resp: 365

Ion	Ratio	Lower	Upper
96	100		
61	133.2	117.2	175.8
98	65.1	51.4	77.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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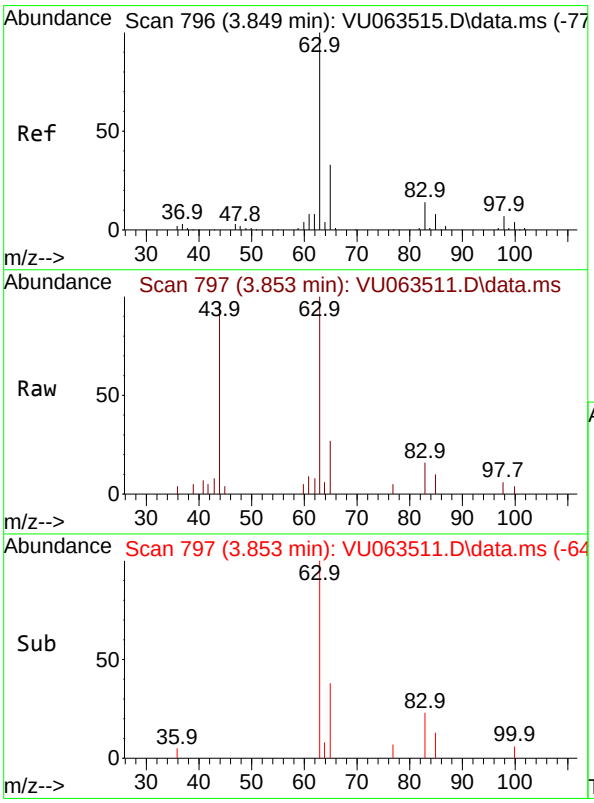
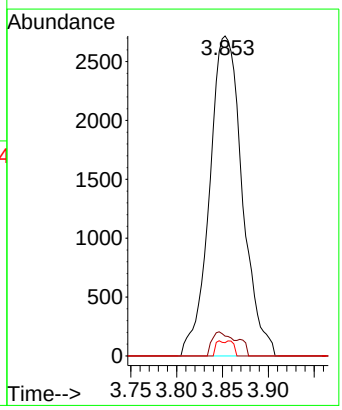
Supervised By :Semsettin Yesilyurt 07/17/2025

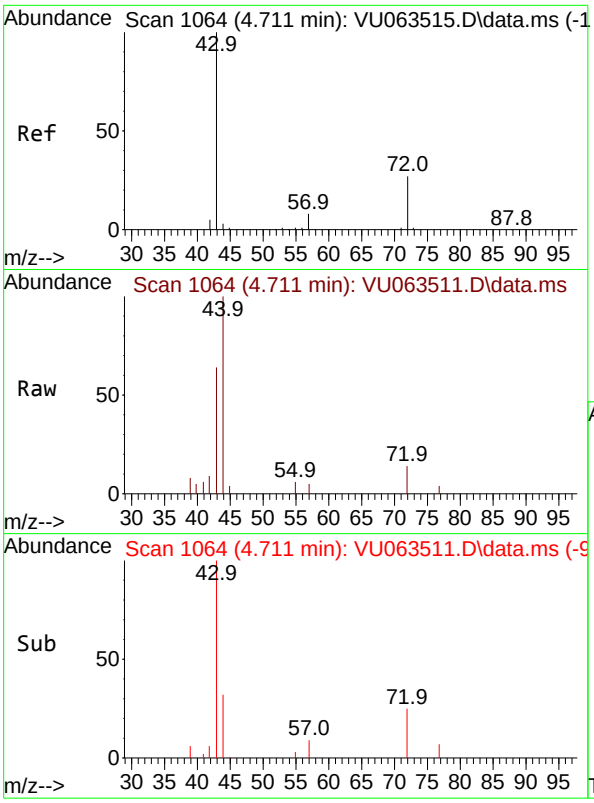


#17
1,1-Dichloroethane
Concen: 0.485 ug/l
RT: 3.853 min Scan# 797
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 63 Resp: 6739

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.4	10.2
100	4.2	2.1	6.2

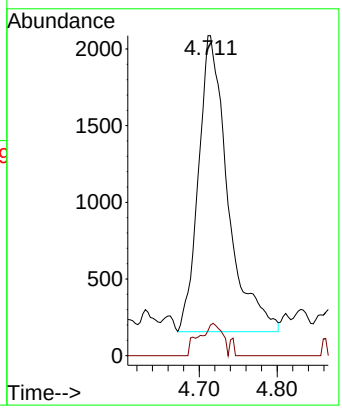




#18
2-Butanone
Concen: 2.467 ug/l
RT: 4.711 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 43 Resp: 505

Ion	Ratio	Lower	Upper
43	100		
57	8.4	0.0	16.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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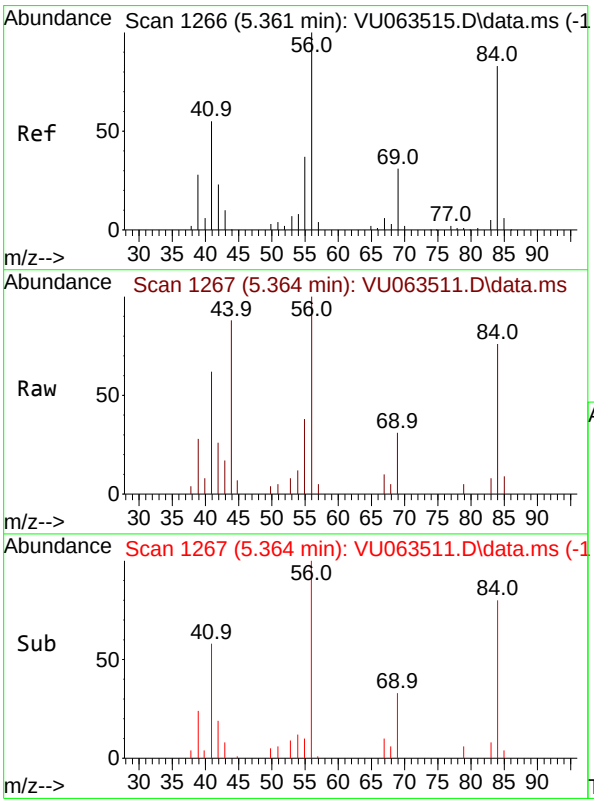
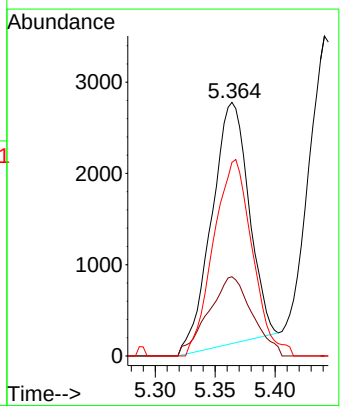
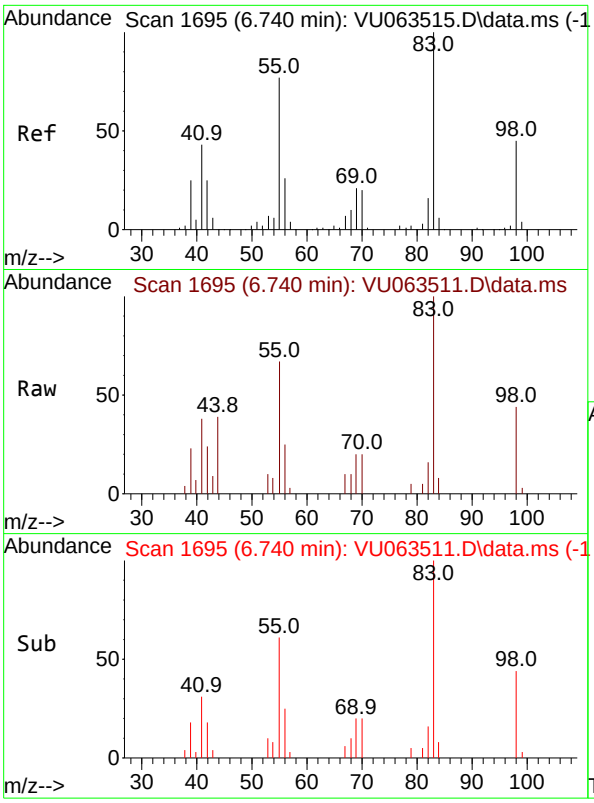


#19
Cyclohexane
Concen: 0.487 ug/l
RT: 5.364 min Scan# 1267
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 56 Resp: 5734

Ion	Ratio	Lower	Upper
56	100		
69	38.3	26.6	39.8
84	84.7	71.0	106.4

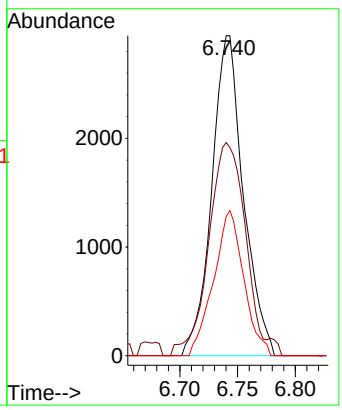




#20
Methylcyclohexane
Concen: 0.491 ug/l
RT: 6.740 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 83 Resp: 561

Ion	Ratio	Lower	Upper
83	100		
55	78.2	60.6	90.8
98	43.3	35.8	53.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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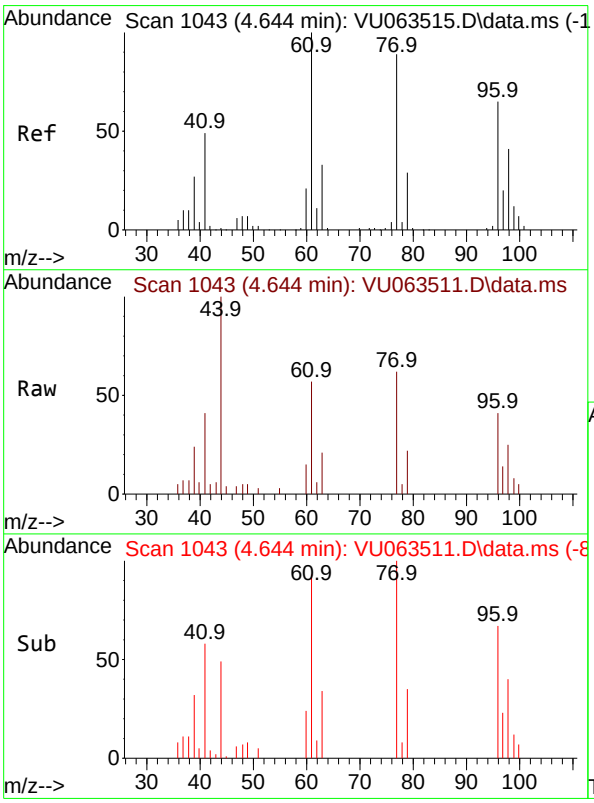
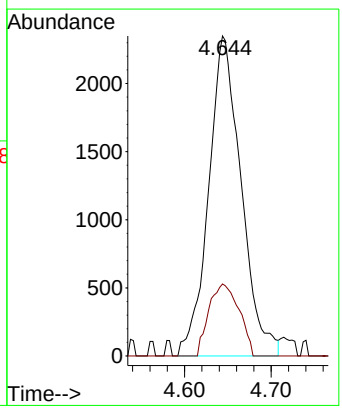
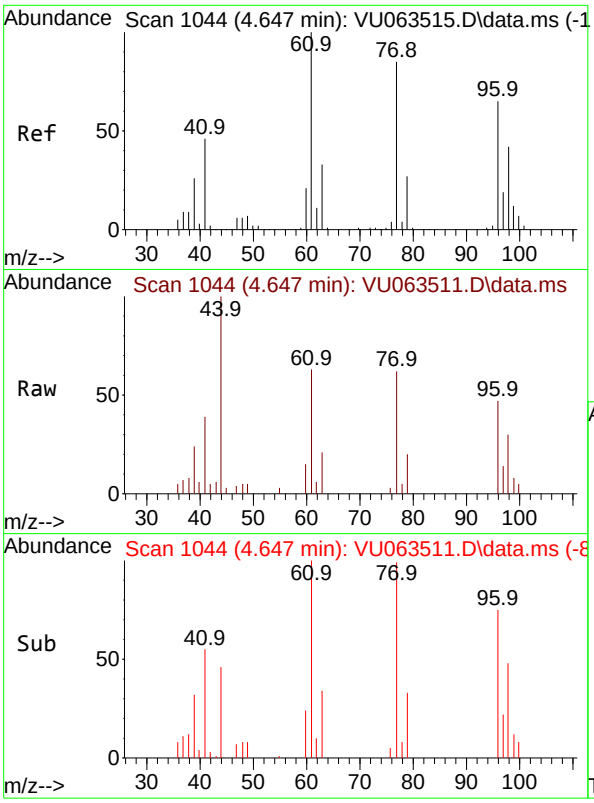


#21
2,2-Dichloropropane
Concen: 0.518 ug/l
RT: 4.644 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 77 Resp: 6127

Ion	Ratio	Lower	Upper
77	100		
97	20.9	17.8	26.8

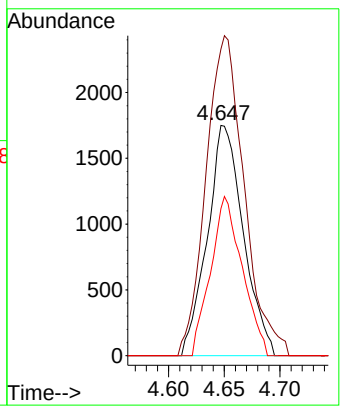




#22
cis-1,2-Dichloroethene
Concen: 0.484 ug/l
RT: 4.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 96 Resp: 394

Ion	Ratio	Lower	Upper
96	100		
61	147.0	0.0	384.7
98	60.6	32.1	96.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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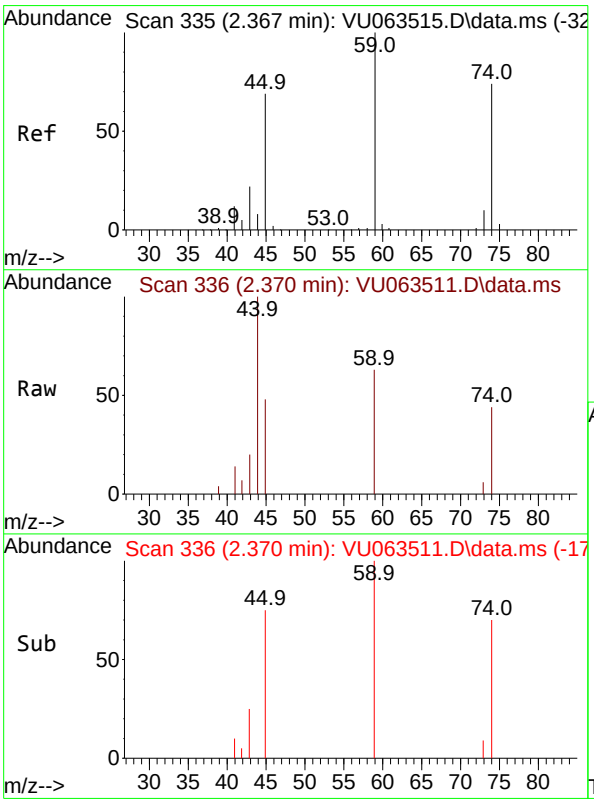
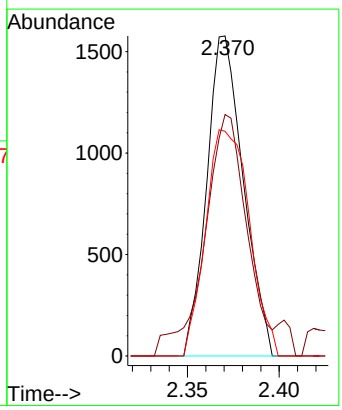
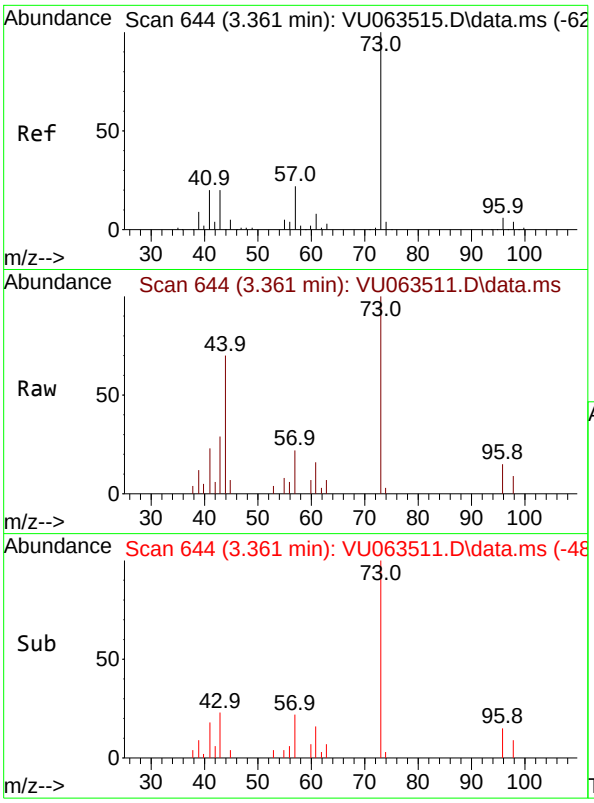


#23
Diethyl Ether
Concen: 0.435 ug/l
RT: 2.370 min Scan# 336
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 59 Resp: 2188

Ion	Ratio	Lower	Upper
59	100		
45	86.5	55.1	82.7#
74	84.3	58.2	87.4

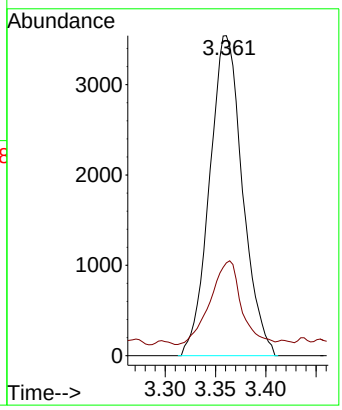




#25
Methyl tert-Butyl Ether
Concen: 0.469 ug/l
RT: 3.361 min Scan# 64
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 73 Resp: 807

Ion	Ratio	Lower	Upper
73	100		
43	24.5	16.2	24.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

Manual Integrations
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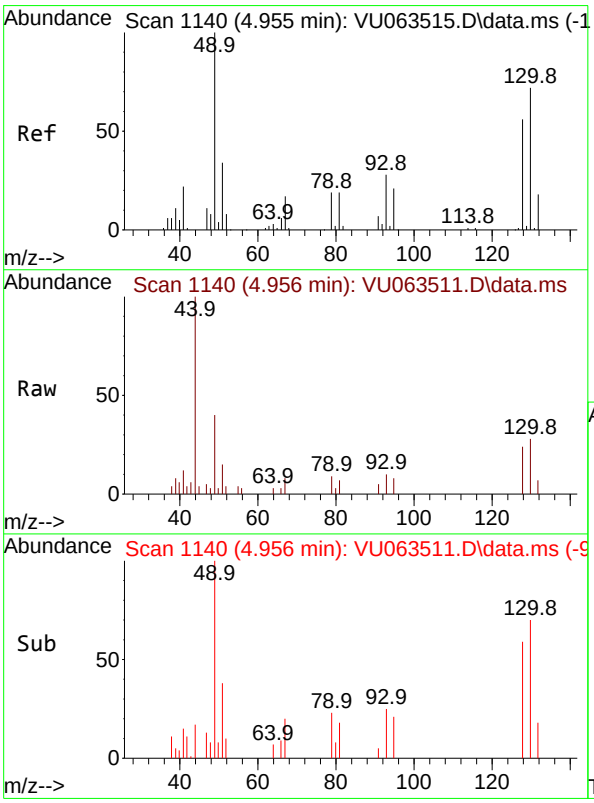
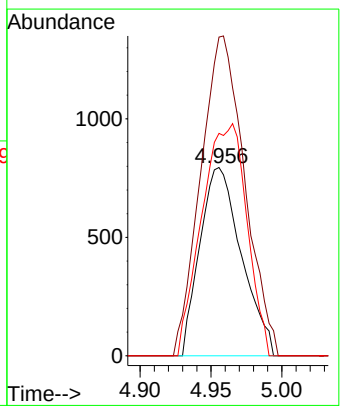
Supervised By :Semsettin Yesilyurt 07/17/2025

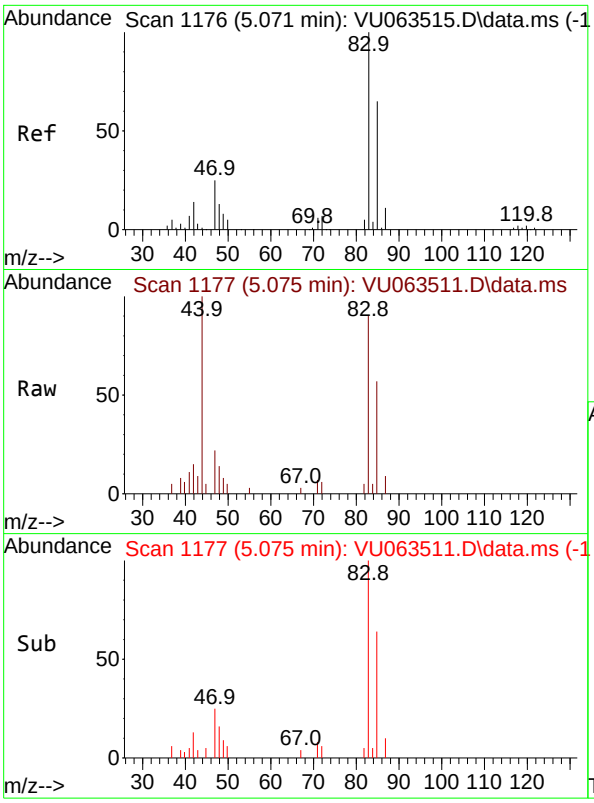


#26
Bromochloromethane
Concen: 0.478 ug/l
RT: 4.956 min Scan# 1140
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:128 Resp: 1623

Ion	Ratio	Lower	Upper
128	100		
49	179.4	0.0	340.8
130	133.5	100.5	150.7

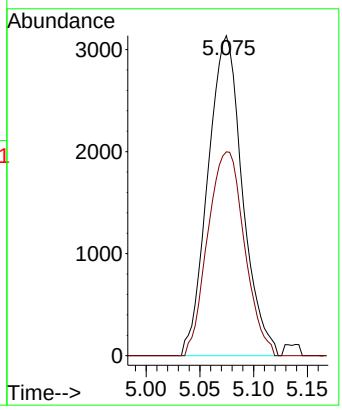




#27
Chloroform
Concen: 0.494 ug/l
RT: 5.075 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 83 Resp: 700

Ion	Ratio	Lower	Upper
83	100		
85	63.7	0.0	130.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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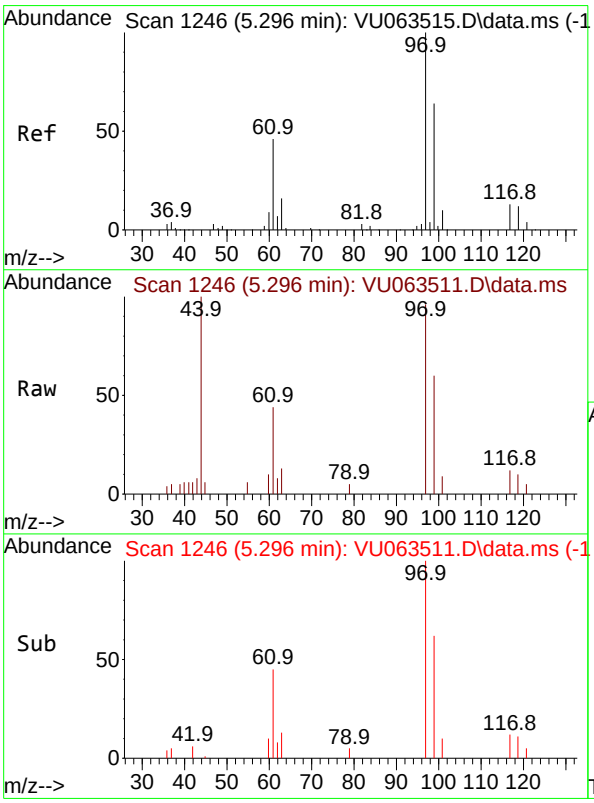
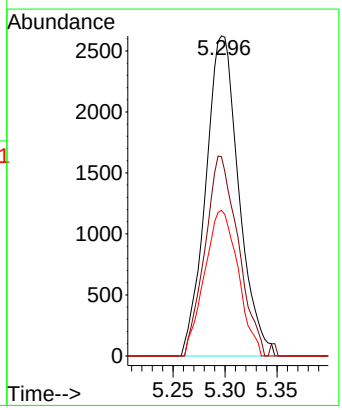
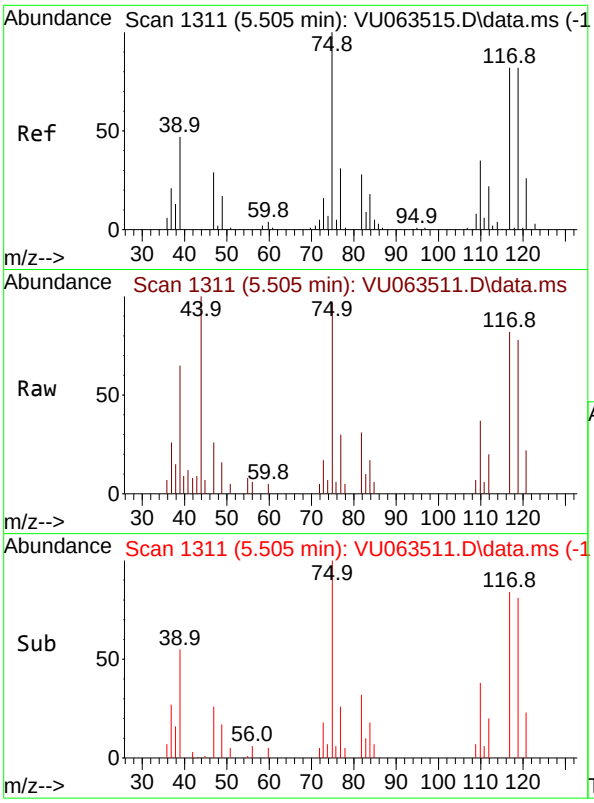


#28
1,1,1-Trichloroethane
Concen: 0.483 ug/l
RT: 5.296 min Scan# 1246
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 97 Resp: 5809

Ion	Ratio	Lower	Upper
97	100		
99	62.5	31.8	95.3
61	46.1	23.3	69.9

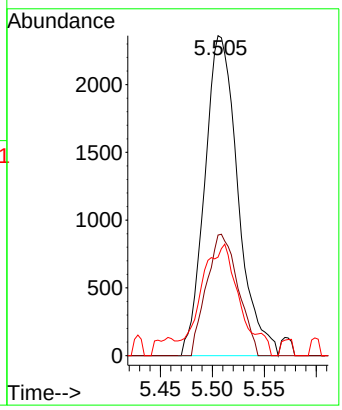




#29
1,1-Dichloropropene
Concen: 0.470 ug/l
RT: 5.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 75 Resp: 524

Ion	Ratio	Lower	Upper
75	100		
110	36.2	17.8	53.4
77	40.4	24.6	37.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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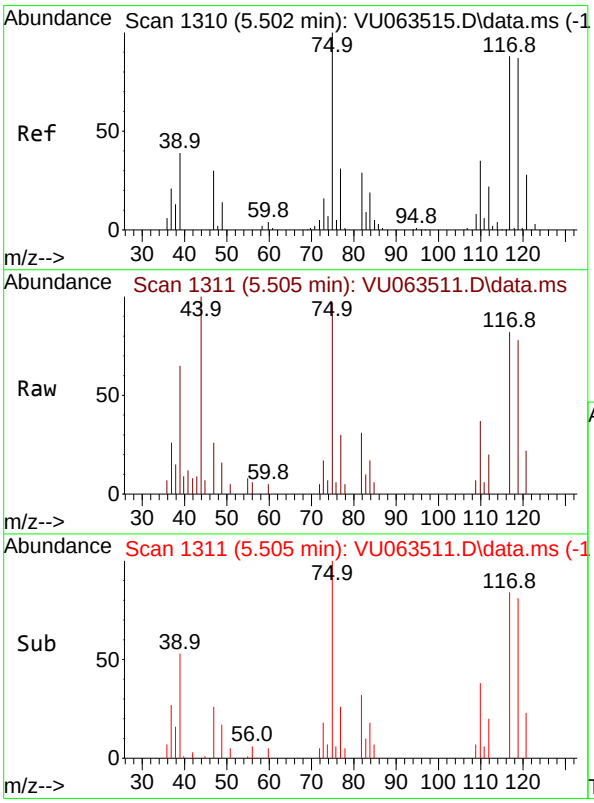
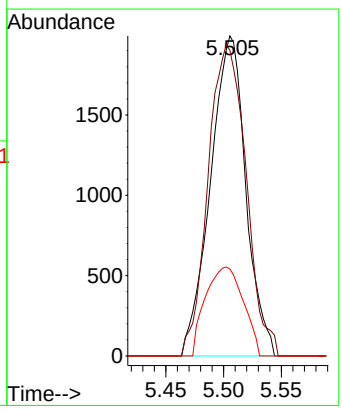
Supervised By :Semsettin Yesilyurt 07/17/2025

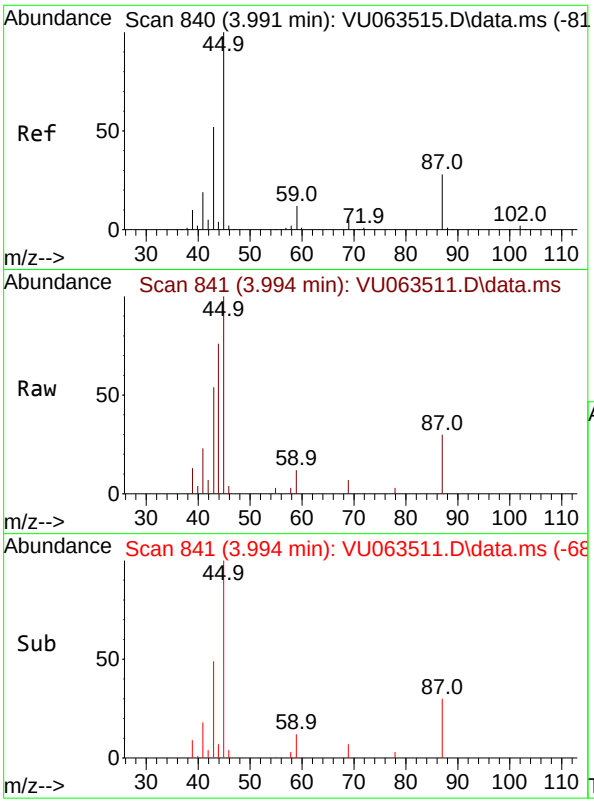


#30
Carbon Tetrachloride
Concen: 0.438 ug/l
RT: 5.505 min Scan# 1311
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:117 Resp: 4239

Ion	Ratio	Lower	Upper
117	100		
119	95.5	79.2	118.8
121	27.2	25.5	38.3

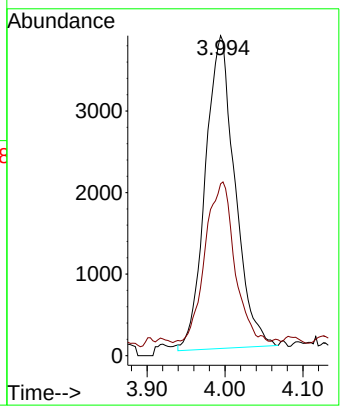




#31
Isopropyl Ether
Concen: 0.483 ug/l
RT: 3.994 min Scan# 84
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 45 Resp: 1012

Ion	Ratio	Lower	Upper
45	100		
43	51.1	25.7	77.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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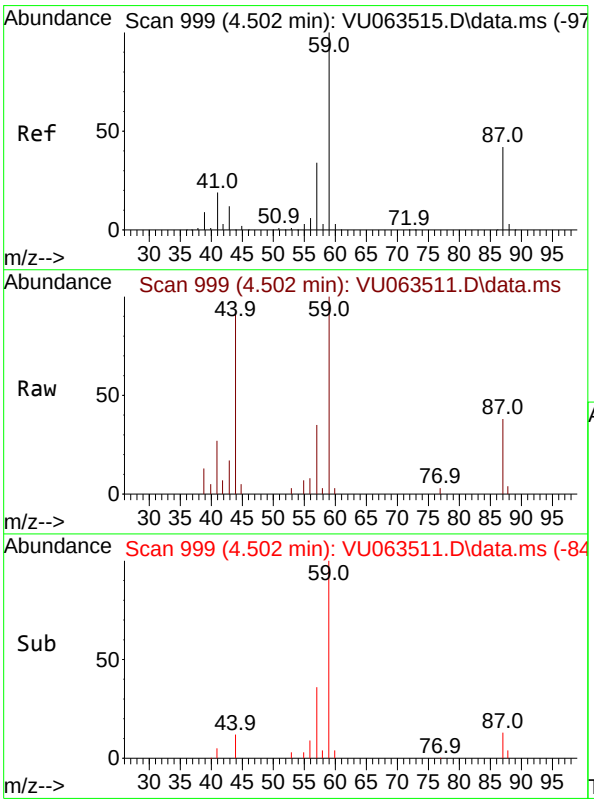
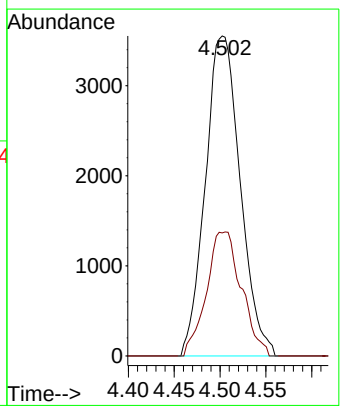
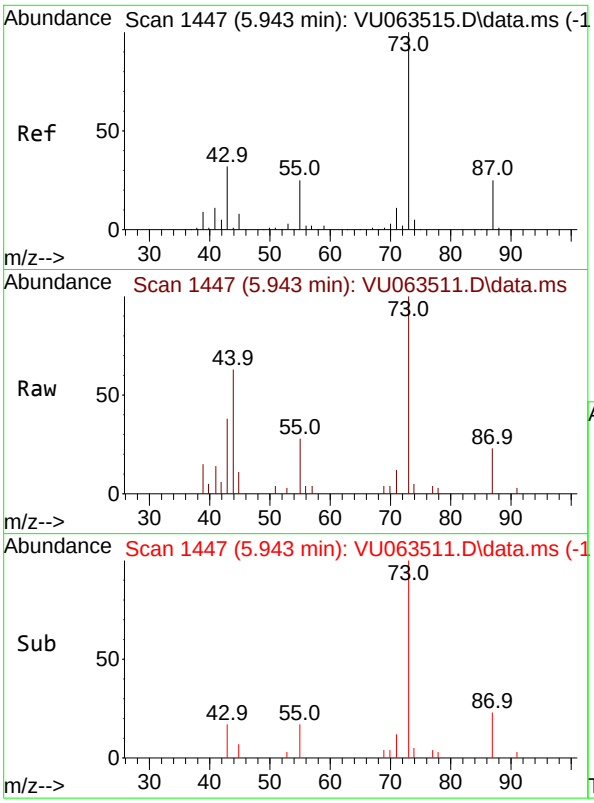


#32
Ethyl-t-butyl ether
Concen: 0.484 ug/l
RT: 4.502 min Scan# 999
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 59 Resp: 9396

Ion	Ratio	Lower	Upper
59	100		
87	38.8	32.6	49.0

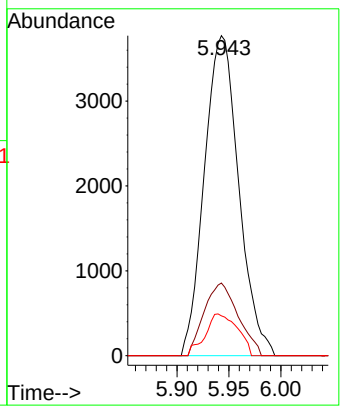




#33
Tert-Amyl methyl ether
Concen: 0.515 ug/l
RT: 5.943 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 73 Resp: 868

Ion	Ratio	Lower	Upper
73	100		
87	22.5	19.4	29.2
71	12.2	8.9	13.3



Instrument :
MSVOA_U
ClientSampleId :
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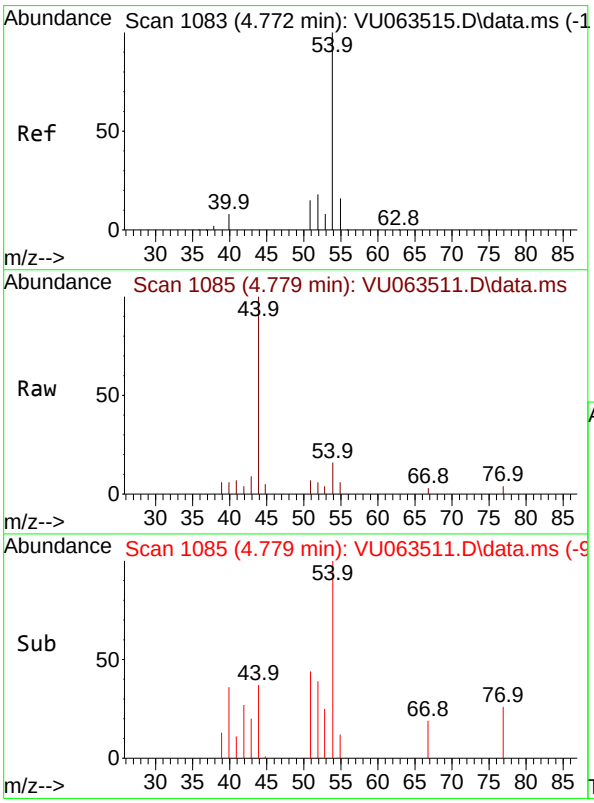
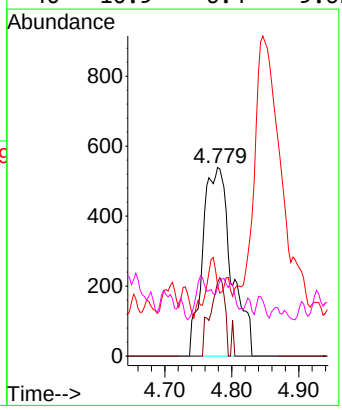
Supervised By :Semsettin Yesilyurt 07/17/2025

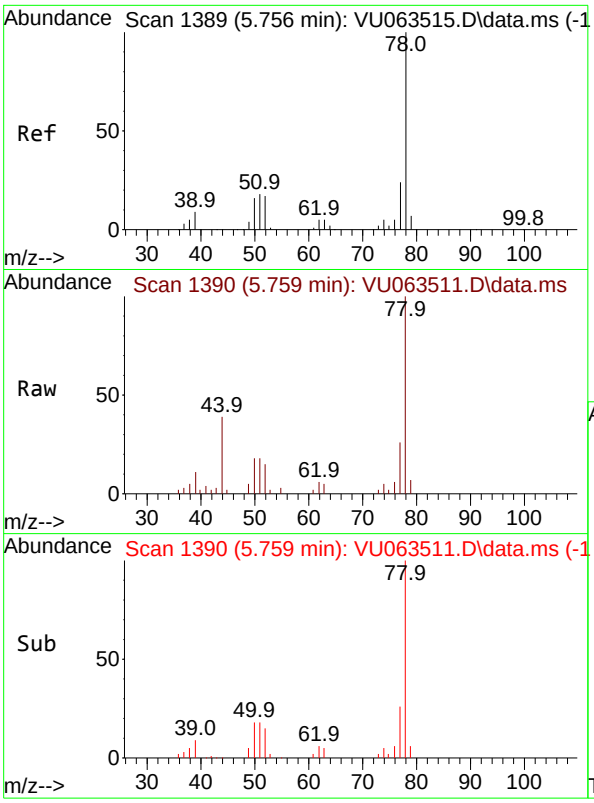


#34
Propionitrile
Concen: 2.565 ug/l m
RT: 4.779 min Scan# 1085
Delta R.T. 0.007 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 54 Resp: 1601

Ion	Ratio	Lower	Upper
54	100		
52	20.9	17.0	25.4
55	13.1	13.6	20.4#
40	10.9	6.4	9.6#

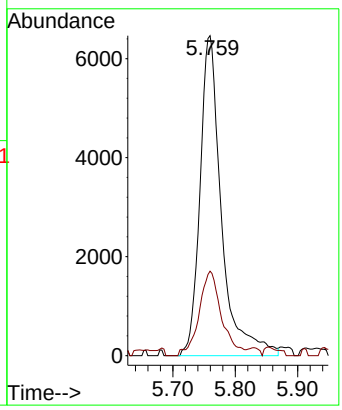




#35
Benzene
Concen: 0.517 ug/l
RT: 5.759 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 78 Resp: 1547

Ion	Ratio	Lower	Upper
78	100		
77	26.4	19.4	29.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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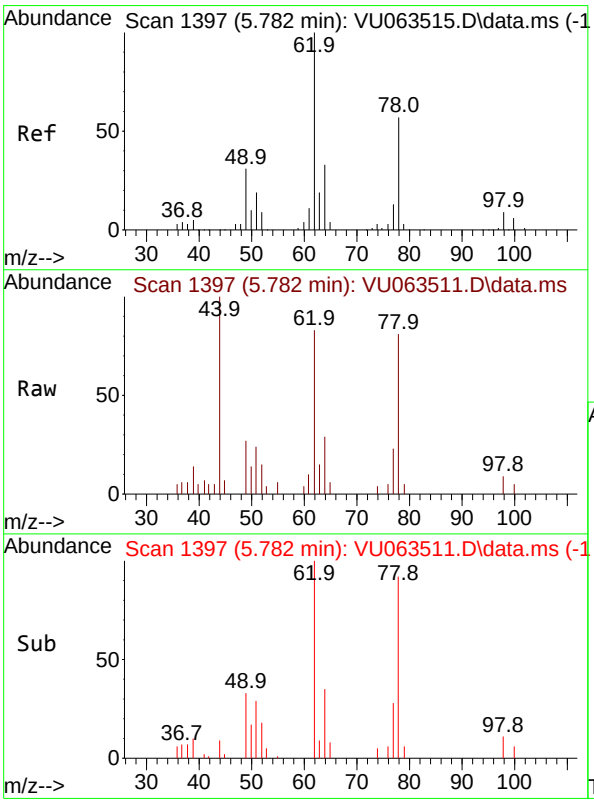
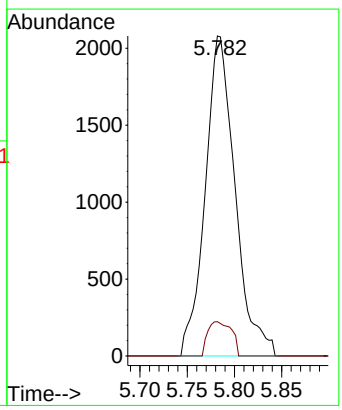
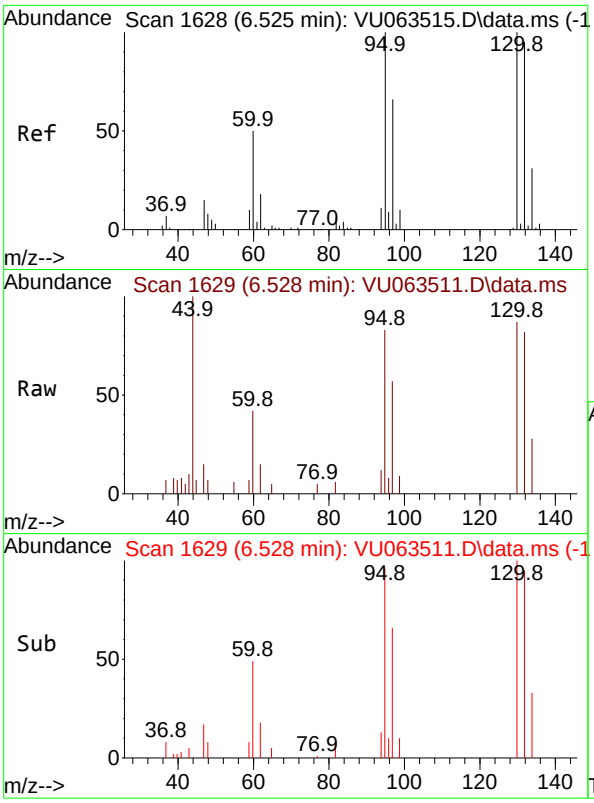


#36
1,2-Dichloroethane
Concen: 0.492 ug/l
RT: 5.782 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 62 Resp: 4577

Ion	Ratio	Lower	Upper
62	100		
98	8.5	6.4	9.6

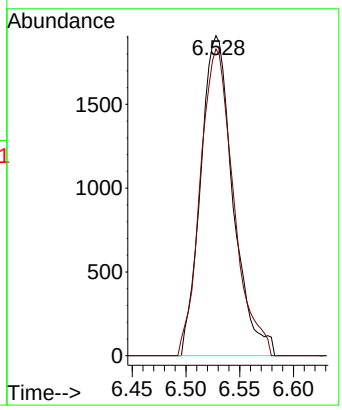




#37
Trichloroethene
Concen: 0.522 ug/l
RT: 6.528 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:130 Resp: 398

Ion	Ratio	Lower	Upper
130	100		
95	95.9	80.3	120.5



Instrument :
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ClientSampleId :
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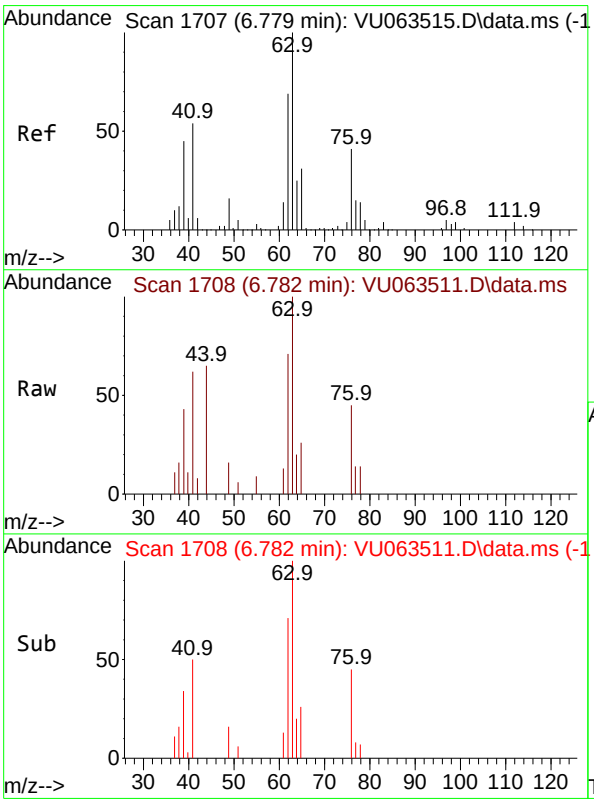
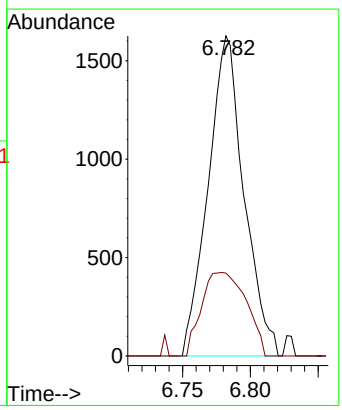
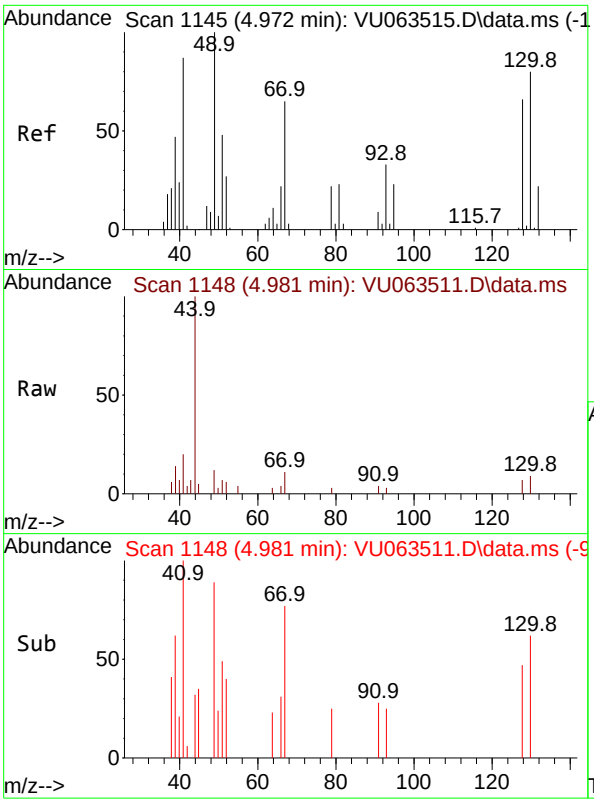


#38
1,2-Dichloropropane
Concen: 0.426 ug/l
RT: 6.782 min Scan# 1708
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 63 Resp: 2987

Ion	Ratio	Lower	Upper
63	100		
65	25.9	24.6	36.8

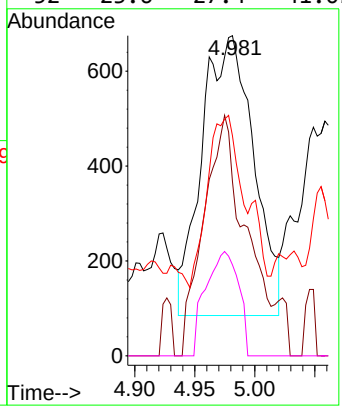




#39
Methacrylonitrile
Concen: 0.645 ug/l m
RT: 4.981 min Scan# 1
Delta R.T. 0.010 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 41 Resp: 176

Ion	Ratio	Lower	Upper
41	100		
67	69.3	62.7	94.1
39	38.3	43.1	64.7#
52	23.6	27.4	41.0#



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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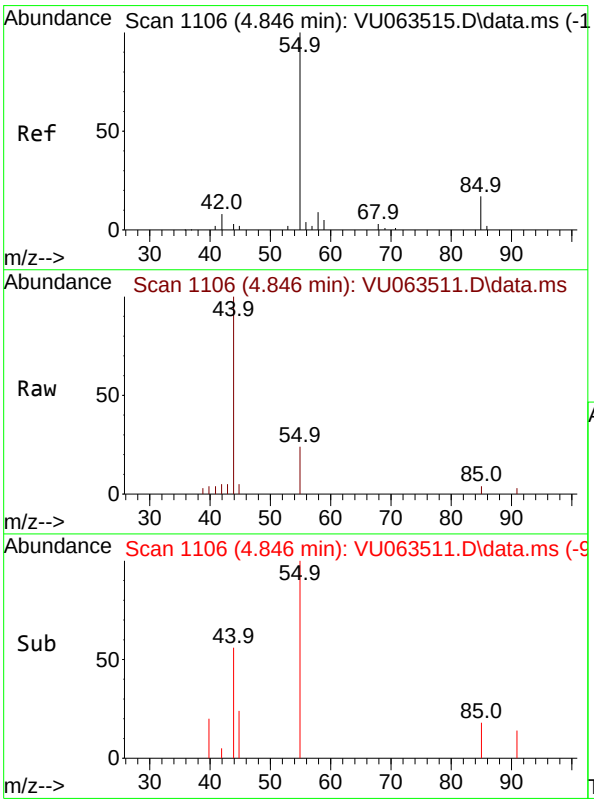
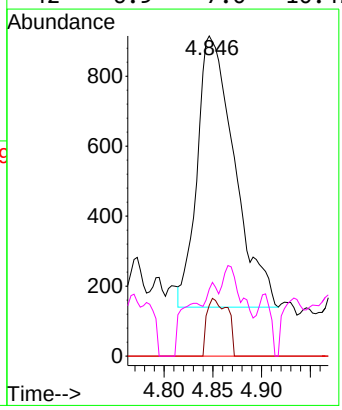
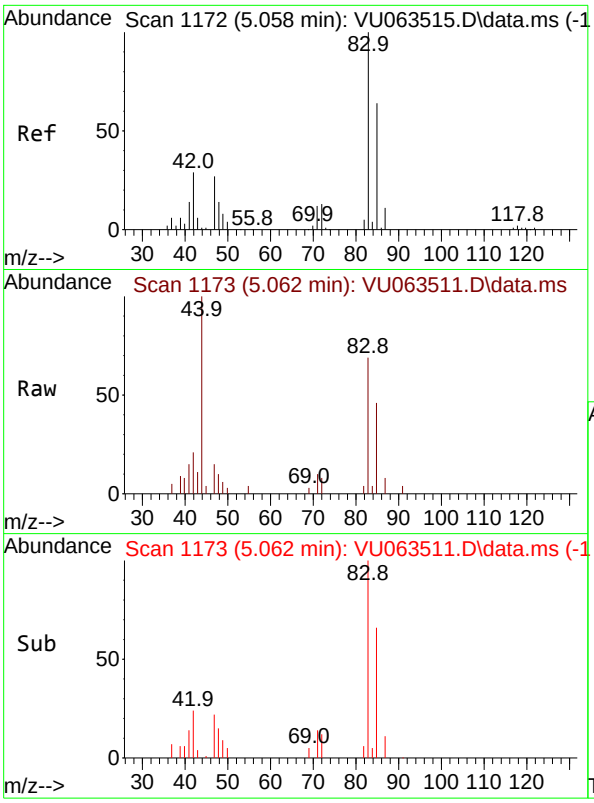


#40
Methyl acrylate
Concen: 0.508 ug/l
RT: 4.846 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 55 Resp: 2059

Ion	Ratio	Lower	Upper
55	100		
85	11.8	12.8	19.2#
58	0.0	7.0	10.4#
42	6.9	7.0	10.4#





#41
Tetrahydrofuran
Concen: 1.376 ug/l
RT: 5.062 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 42 Resp: 200

Ion	Ratio	Lower	Upper
42	100		
72	29.3	39.2	58.8#
71	33.5	34.8	52.2#

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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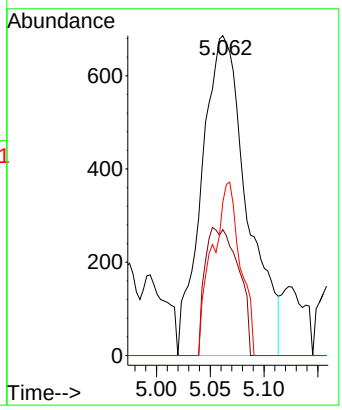
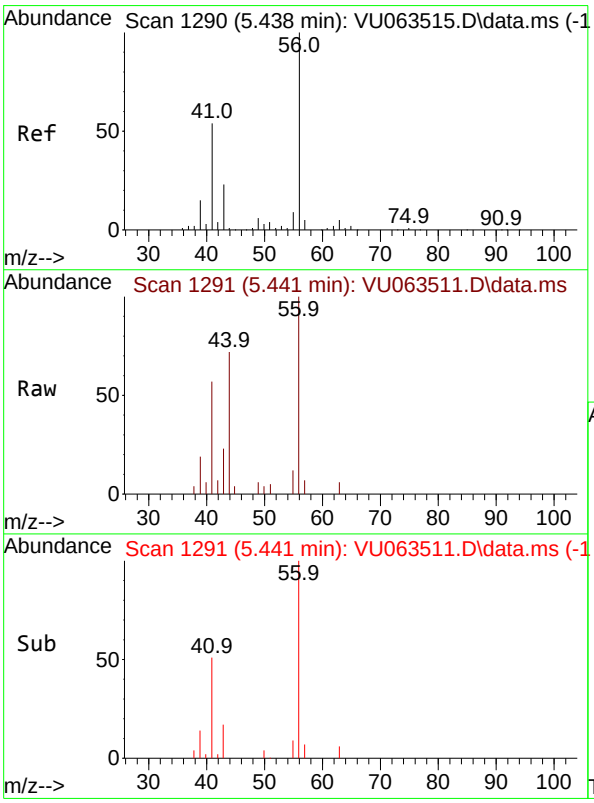
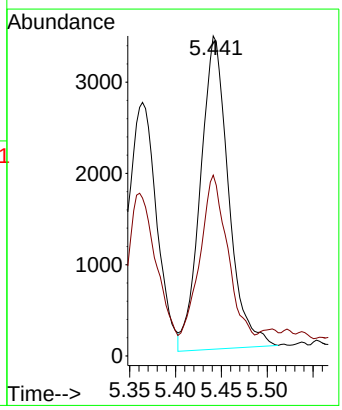


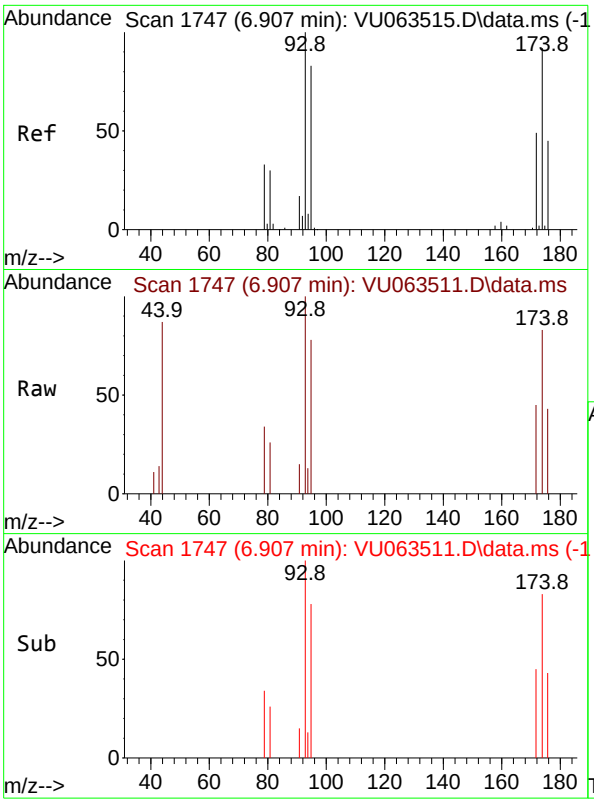


#42
1-Chlorobutane
Concen: 0.493 ug/l
RT: 5.441 min Scan# 1291
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 56 Resp: 7303

Ion	Ratio	Lower	Upper
56	100		
41	48.2	26.7	80.0

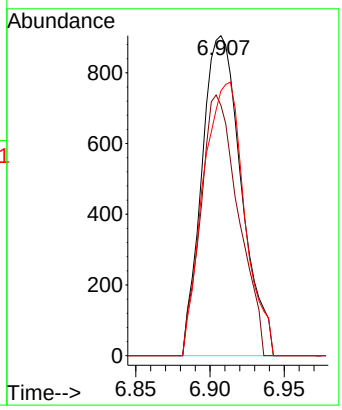




#43
Dibromomethane
Concen: 0.462 ug/l
RT: 6.907 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 93 Resp: 167

Ion	Ratio	Lower	Upper
93	100		
95	77.2	67.9	101.9
174	89.3	74.6	111.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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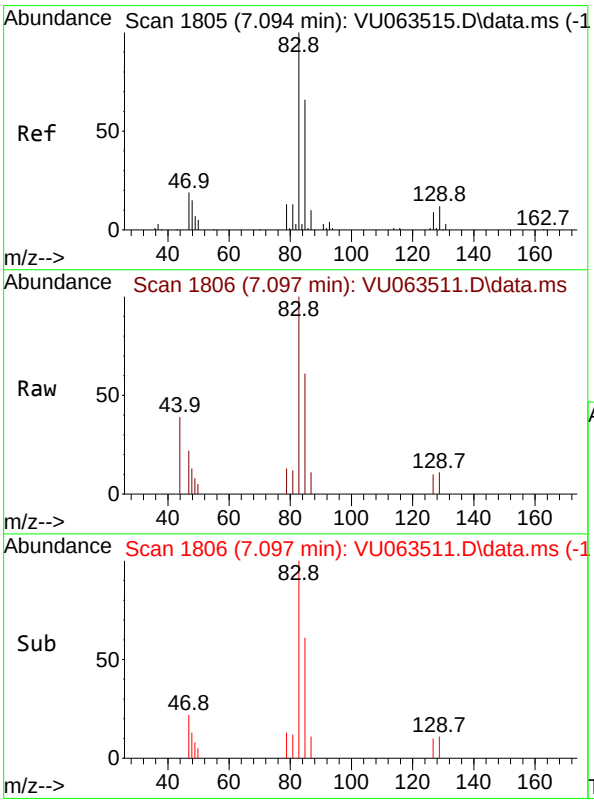
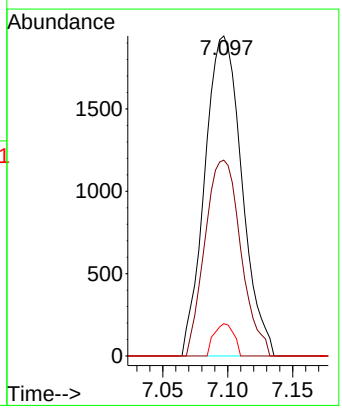
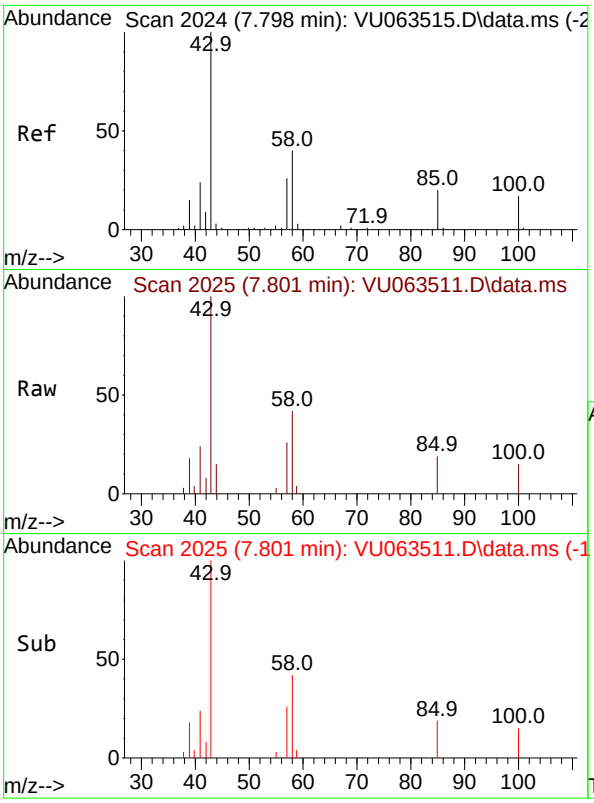


#44
Bromodichloromethane
Concen: 0.471 ug/l
RT: 7.097 min Scan# 1806
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 83 Resp: 3861

Ion	Ratio	Lower	Upper
83	100		
85	61.2	52.7	79.1
127	10.1	8.1	12.1

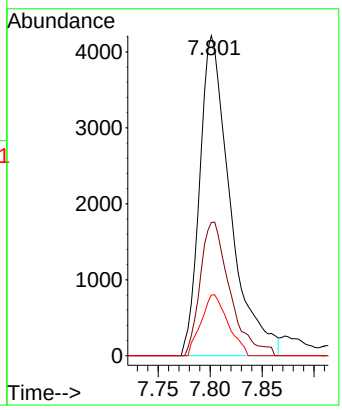




#45
4-Methyl-2-Pentanone
Concen: 2.301 ug/l
RT: 7.801 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 43 Resp: 861

Ion	Ratio	Lower	Upper
43	100		
58	40.6	20.0	60.0
85	16.7	15.4	23.0



Instrument :
MSVOA_U
ClientSampleId :
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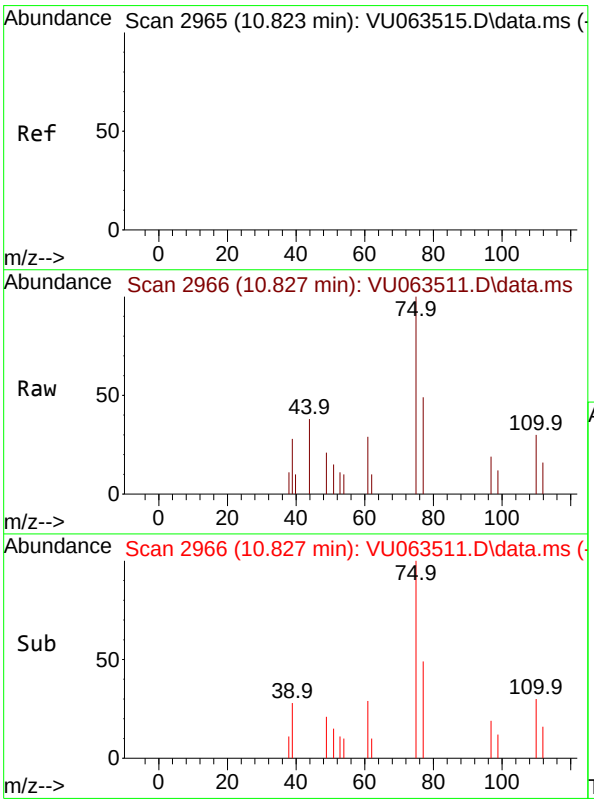
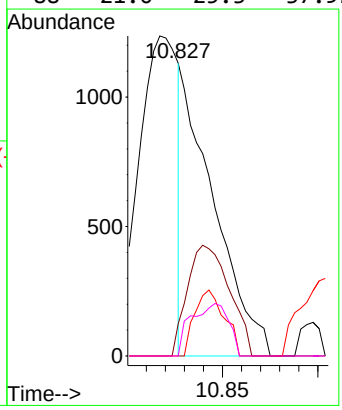
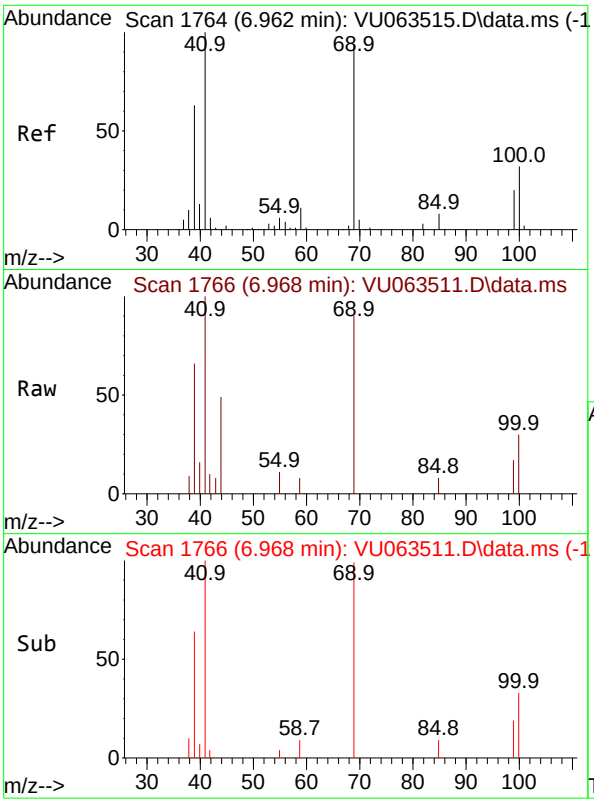


#46
t-1,4-Dichloro-2-butene
Concen: 0.990 ug/l m
RT: 10.827 min Scan# 2966
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 75 Resp: 1314

Ion	Ratio	Lower	Upper
75	100		
53	50.0	48.4	72.6
89	20.9	30.6	45.8#
88	21.0	25.3	37.9#

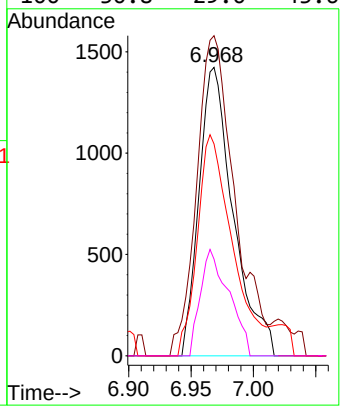




#47
Methyl methacrylate
Concen: 0.889 ug/l
RT: 6.968 min Scan# 1
Delta R.T. 0.007 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 69 Resp: 271

Ion	Ratio	Lower	Upper
69	100		
41	123.9	0.0	224.0
39	78.5	55.3	82.9
100	30.8	29.0	43.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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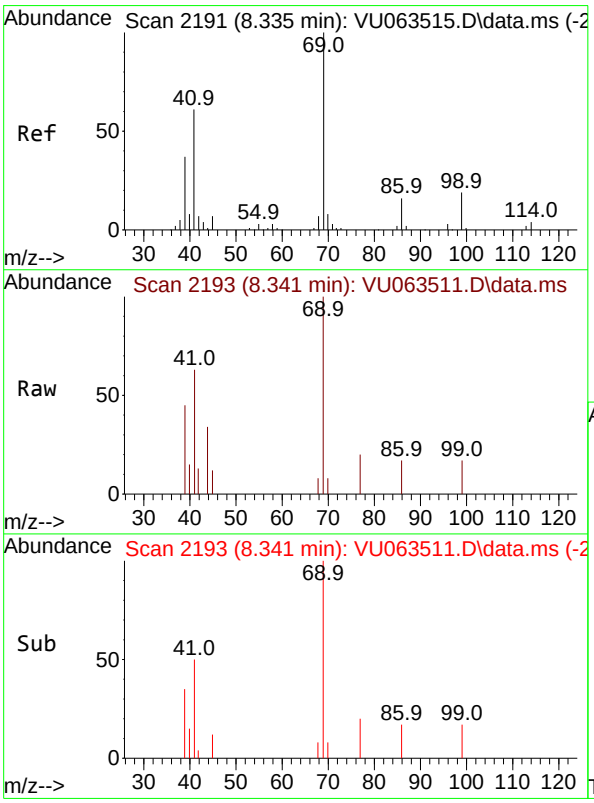
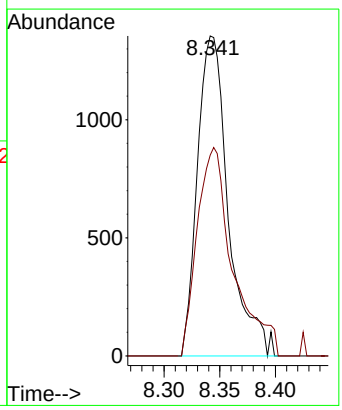
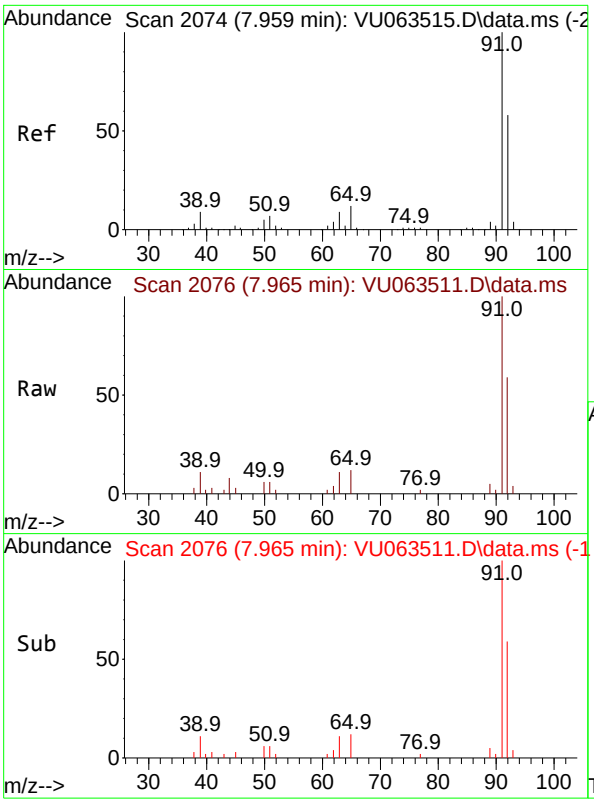


#48
Ethyl methacrylate
Concen: 0.451 ug/l
RT: 8.341 min Scan# 2193
Delta R.T. 0.007 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 69 Resp: 2622

Ion	Ratio	Lower	Upper
69	100		
41	75.1	30.8	92.4





#49
Toluene
Concen: 0.452 ug/l
RT: 7.965 min Scan# 2
Delta R.T. 0.007 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 92 Resp: 739

Ion	Ratio	Lower	Upper
92	100		
91	175.6	140.4	210.6

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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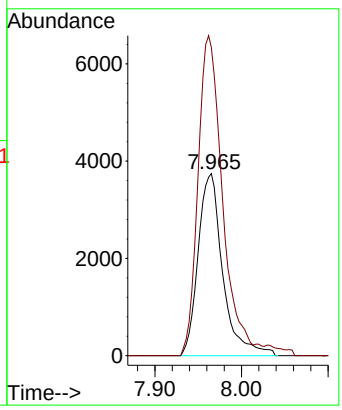
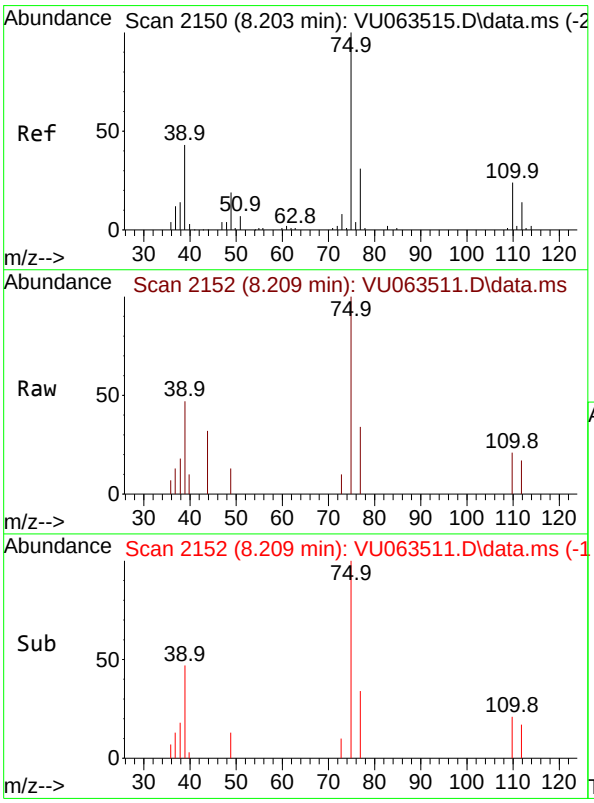
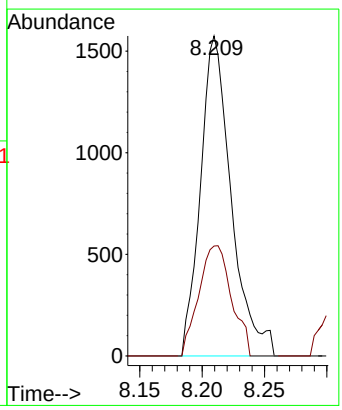


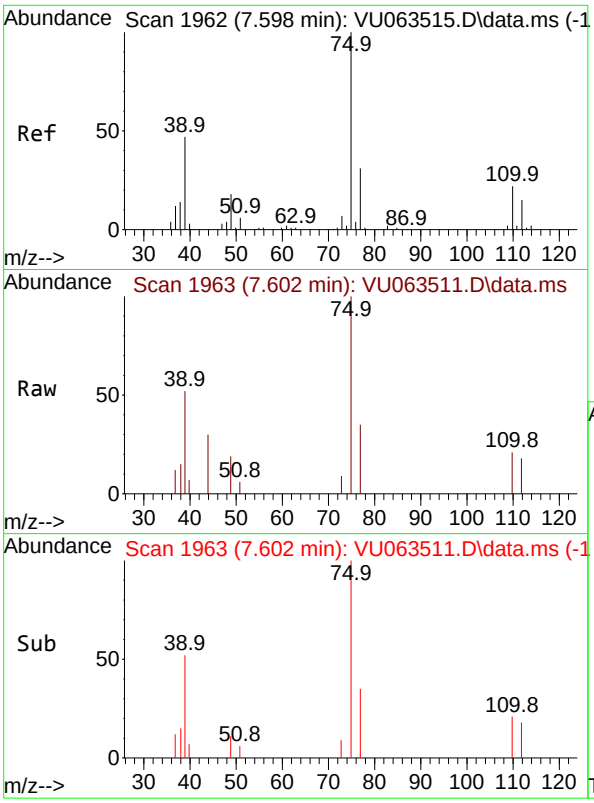


#50
t-1,3-Dichloropropene
Concen: 0.421 ug/l
RT: 8.209 min Scan# 2152
Delta R.T. 0.007 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 75 Resp: 2708

Ion	Ratio	Lower	Upper
75	100		
77	34.3	24.9	37.3

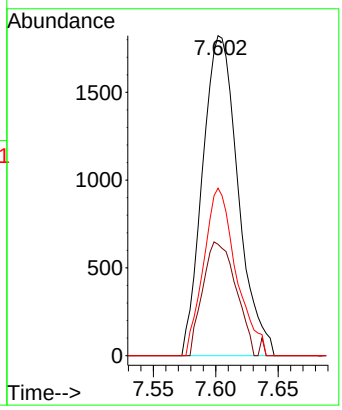




#51
cis-1,3-Dichloropropene
Concen: 0.419 ug/l
RT: 7.602 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 75 Resp: 361

Ion	Ratio	Lower	Upper
75	100		
77	34.8	25.1	37.7
39	52.3	37.8	56.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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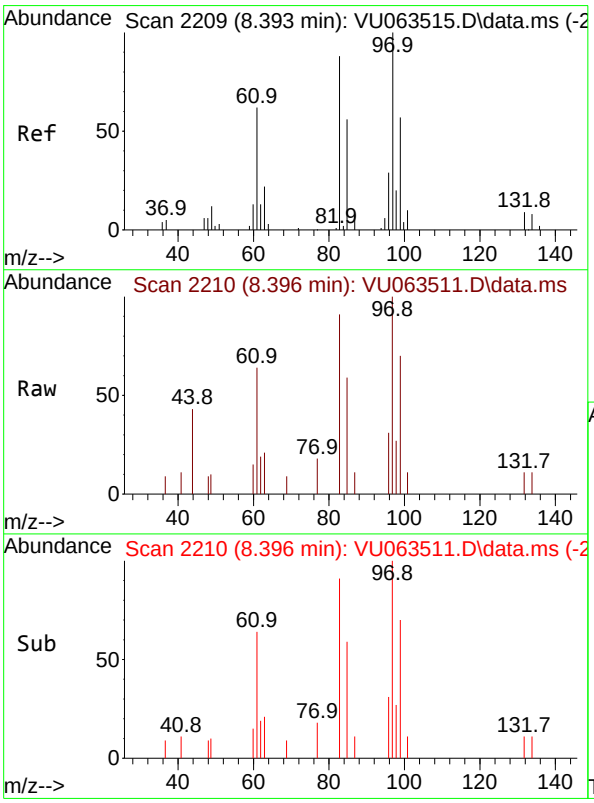
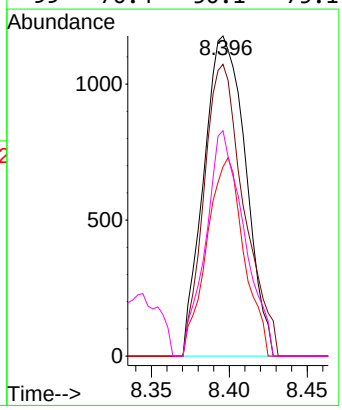
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

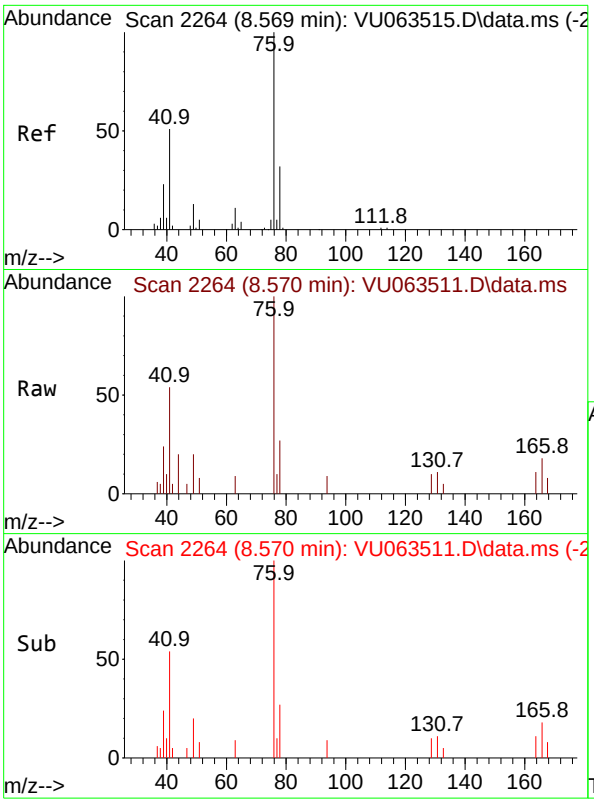


#52
1,1,2-Trichloroethane
Concen: 0.449 ug/l
RT: 8.396 min Scan# 2210
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 97 Resp: 2194

Ion	Ratio	Lower	Upper
97	100		
83	91.2	70.2	105.2
85	59.1	45.2	67.8
99	70.4	50.1	75.1





#53
1,3-Dichloropropane
Concen: 0.467 ug/l
RT: 8.570 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 76 Resp: 394

Ion	Ratio	Lower	Upper
76	100		
78	30.2	26.0	39.0

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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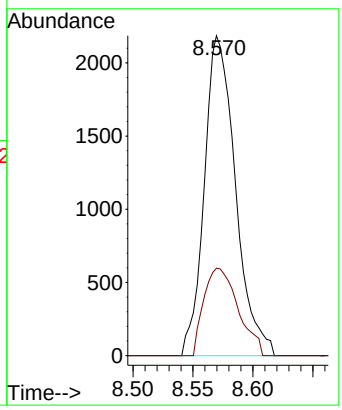
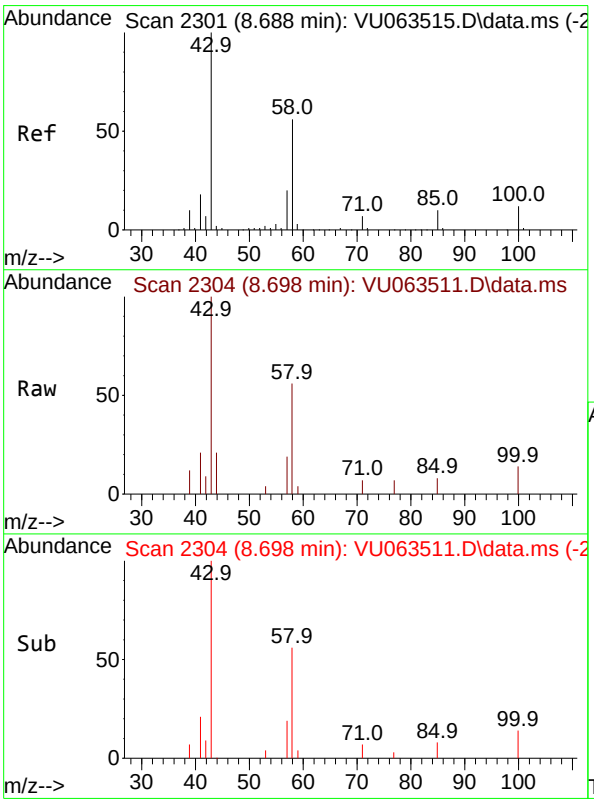
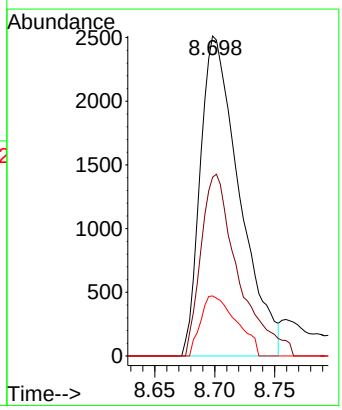


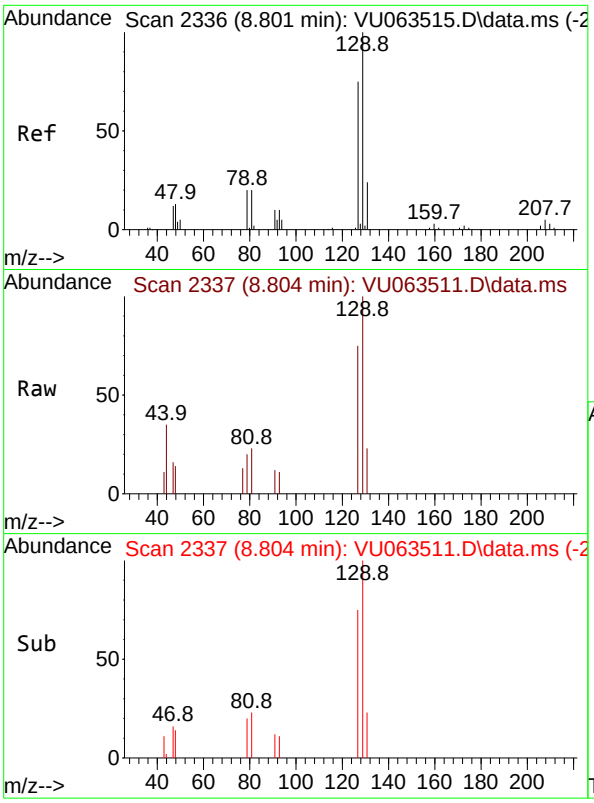


#54
2-Hexanone
Concen: 2.289 ug/l
RT: 8.698 min Scan# 2304
Delta R.T. 0.010 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 43 Resp: 5691

Ion	Ratio	Lower	Upper
43	100		
58	54.1	34.8	74.8
57	17.3	0.0	39.5

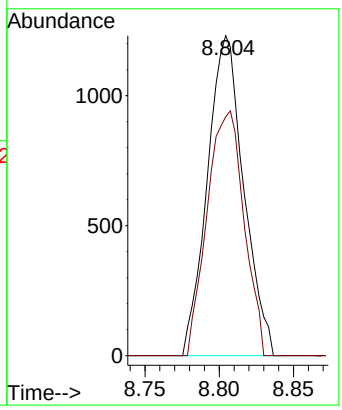




#55
Dibromochloromethane
Concen: 0.406 ug/l
RT: 8.804 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:129 Resp: 209

Ion	Ratio	Lower	Upper
129	100		
127	77.3	60.1	90.1



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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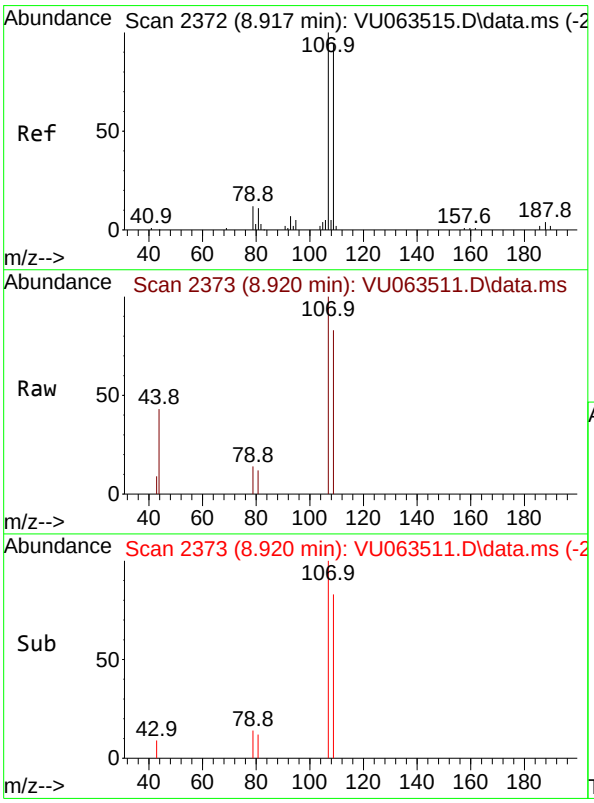
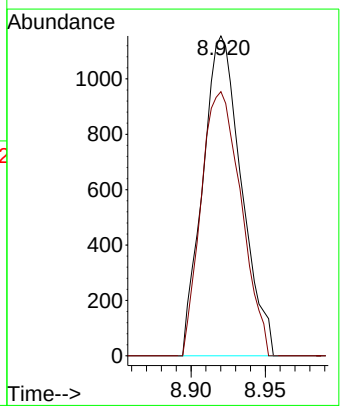
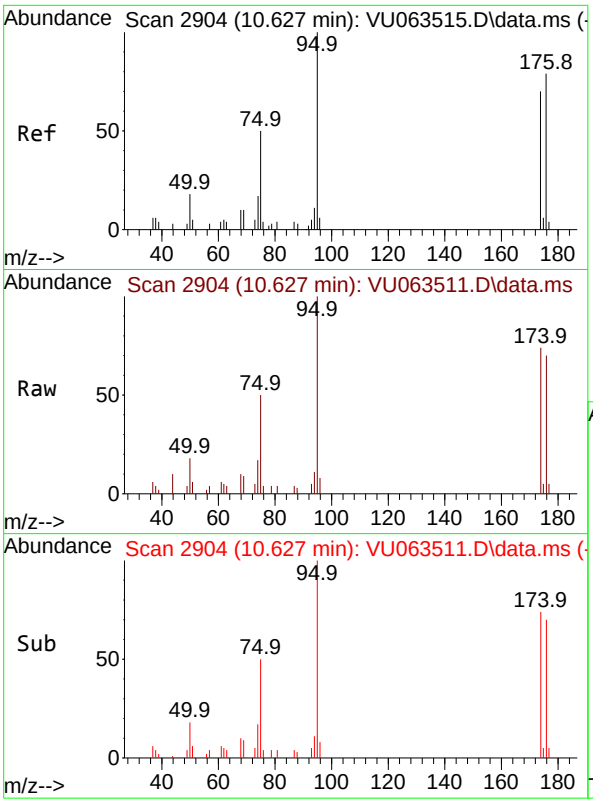


#56
1,2-Dibromoethane
Concen: 0.477 ug/l
RT: 8.920 min Scan# 2373
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:107 Resp: 2089

Ion	Ratio	Lower	Upper
107	100		
109	85.6	0.0	186.4

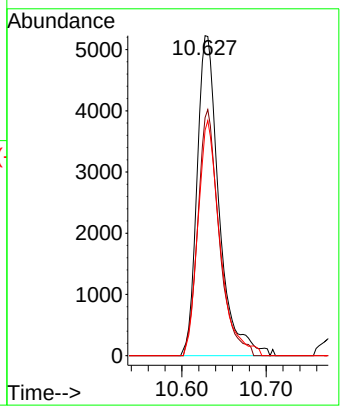




#57
4-Bromofluorobenzene
Concen: 0.986 ug/l
RT: 10.627 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 95 Resp: 948

Ion	Ratio	Lower	Upper
95	100		
174	74.2	59.8	89.8
176	73.7	61.8	92.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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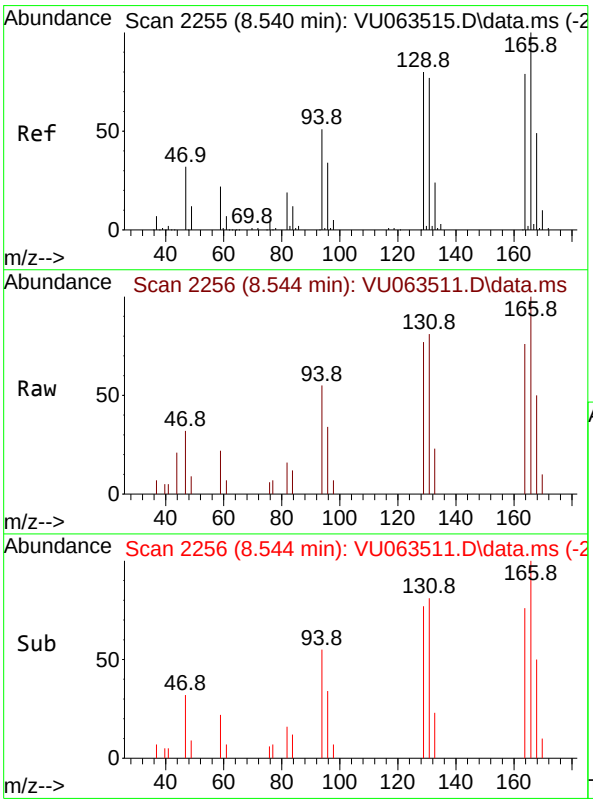
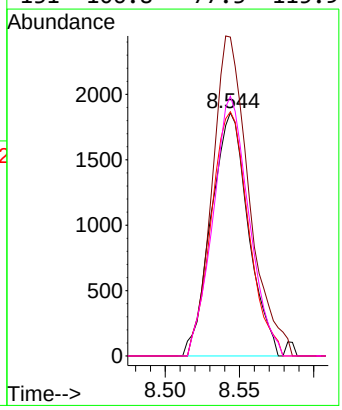
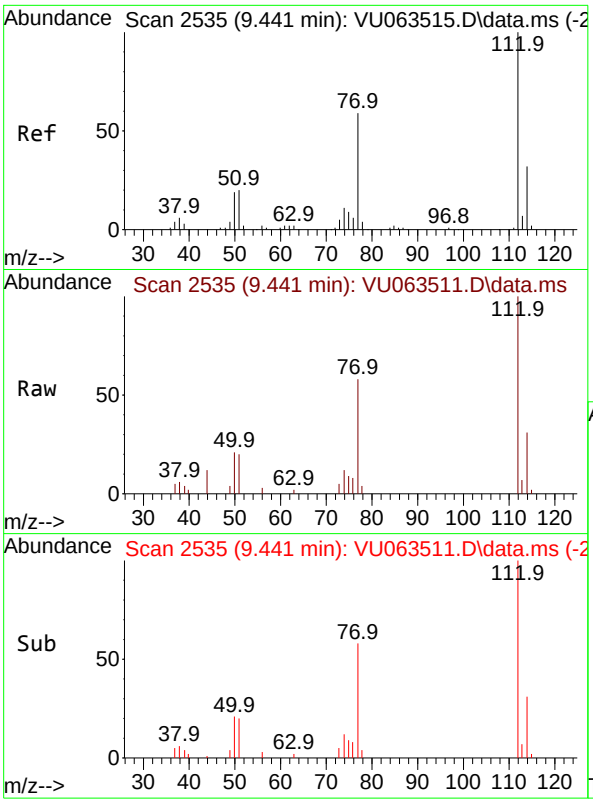


#58
Tetrachloroethene
Concen: 0.461 ug/l
RT: 8.544 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:164 Resp: 3225

Ion	Ratio	Lower	Upper
164	100		
166	131.1	100.7	151.1
129	100.4	80.6	120.8
131	106.8	77.3	115.9

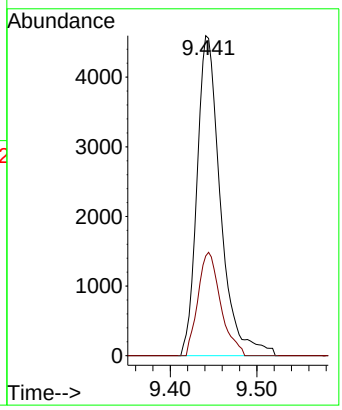




#59
Chlorobenzene
Concen: 0.460 ug/l
RT: 9.441 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:112 Resp: 863

Ion	Ratio	Lower	Upper
112	100		
114	31.1	25.4	38.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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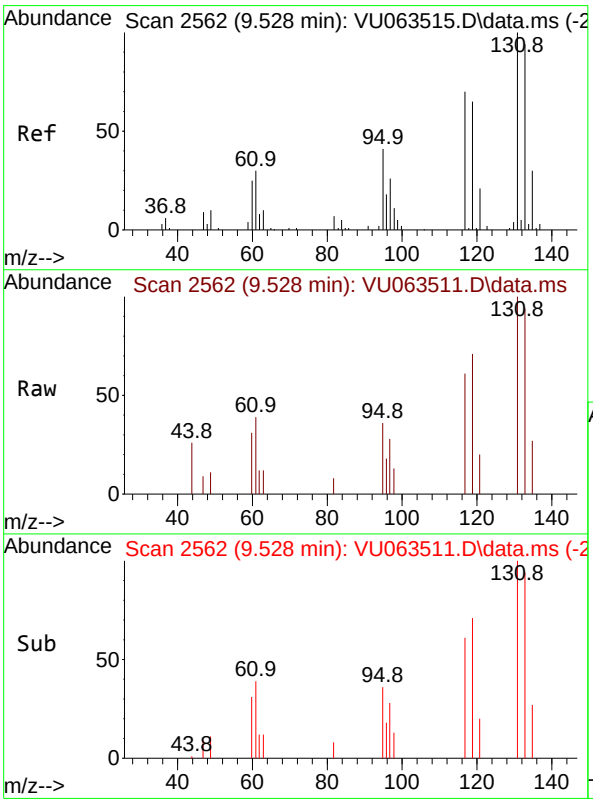
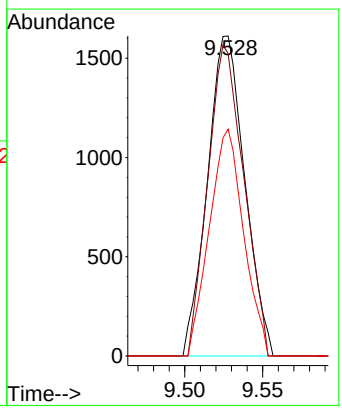
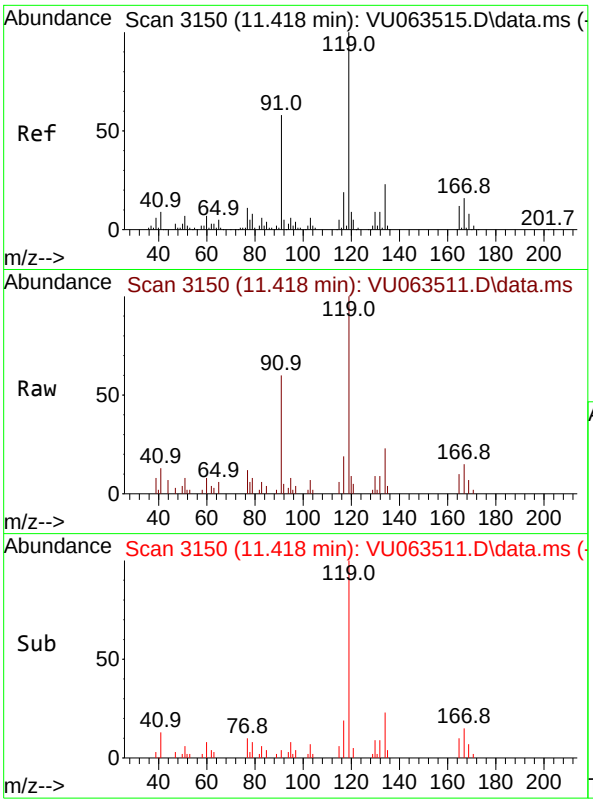


#60
1,1,1,2-Tetrachloroethane
Concen: 0.445 ug/l
RT: 9.528 min Scan# 2562
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:131 Resp: 2686

Ion	Ratio	Lower	Upper
131	100		
133	93.3	74.7	112.1
119	65.1	53.0	79.4





#61
Pentachloroethane
Concen: 0.441 ug/l
RT: 11.418 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:117 Resp: 188

Ion	Ratio	Lower	Upper
117	100		
167	83.4	65.0	97.6

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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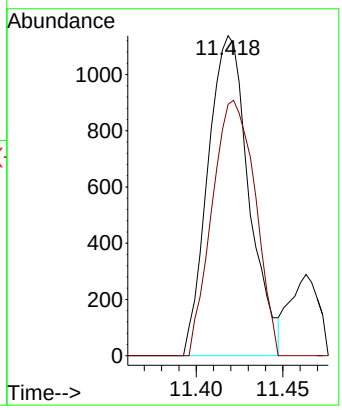
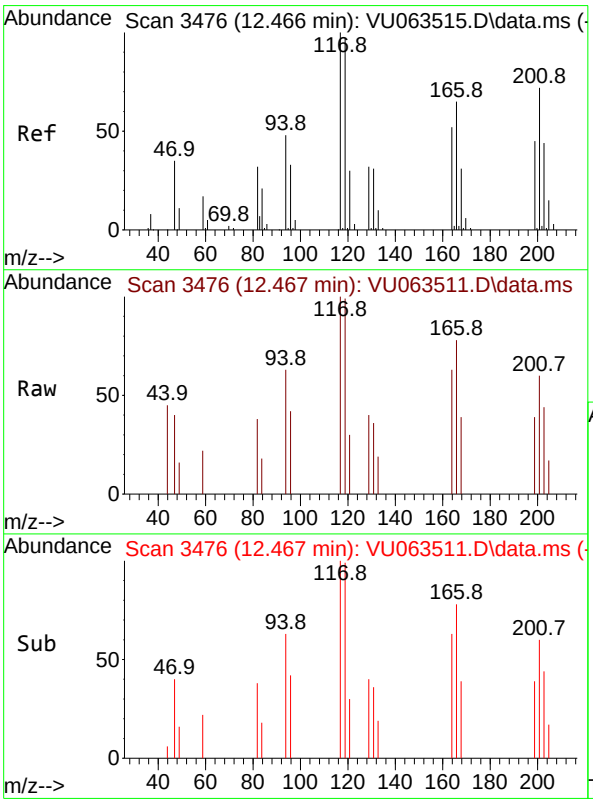
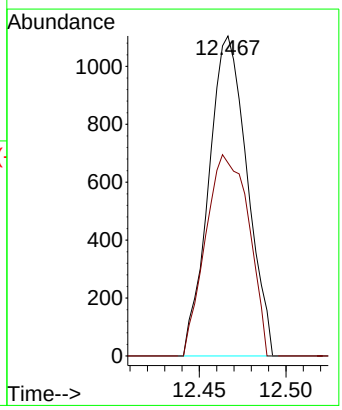


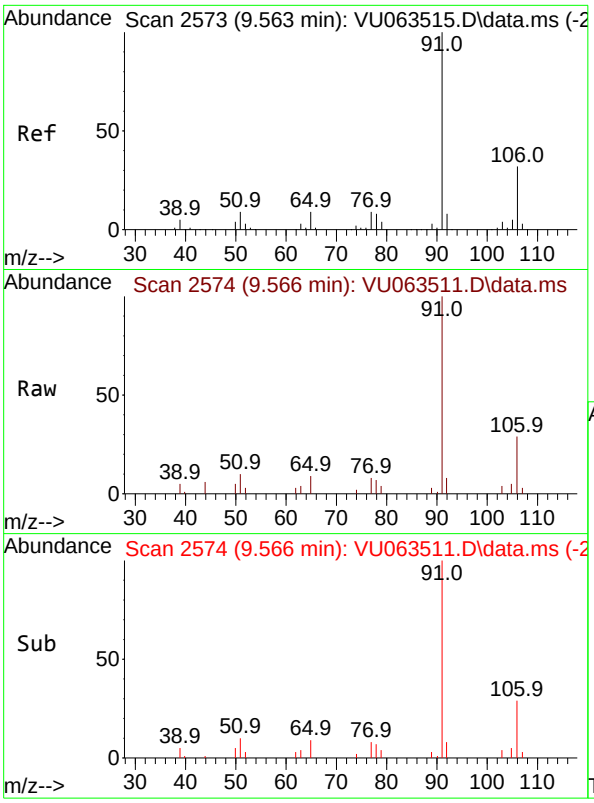


#62
Hexachloroethane
Concen: 0.403 ug/l
RT: 12.467 min Scan# 3476
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:117 Resp: 1703

Ion	Ratio	Lower	Upper
117	100		
201	70.8	57.4	86.0

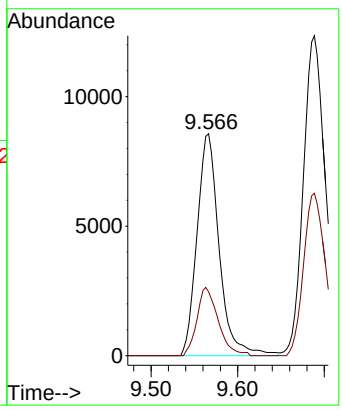




#63
Ethyl Benzene
Concen: 0.470 ug/l
RT: 9.566 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 91 Resp: 1518

Ion	Ratio	Lower	Upper
91	100		
106	28.7	25.4	38.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

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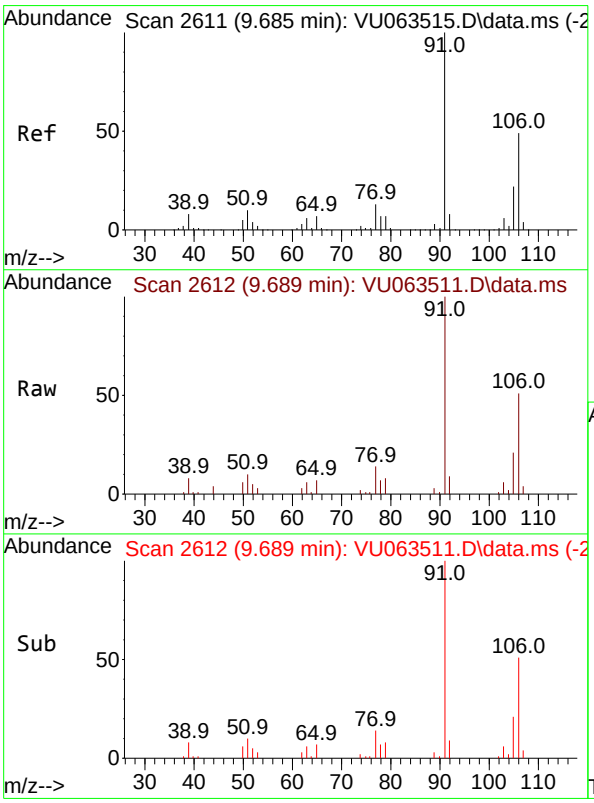
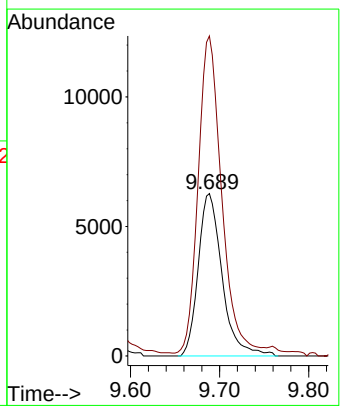
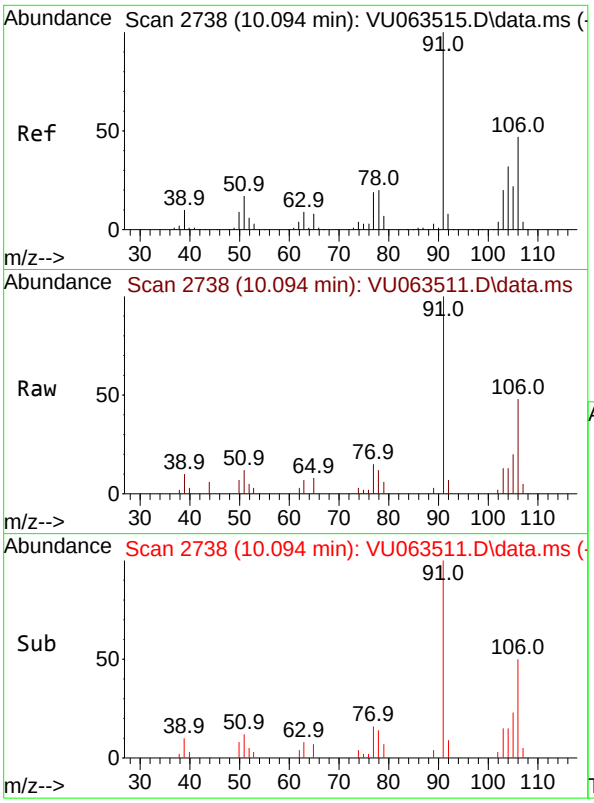


#64
m/p-Xylenes
Concen: 0.929 ug/l
RT: 9.689 min Scan# 2612
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:106 Resp: 11672

Ion	Ratio	Lower	Upper
106	100		
91	190.8	163.6	245.4

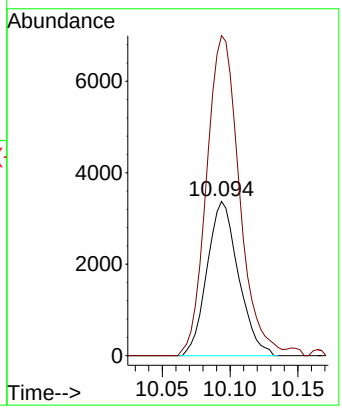




#65
o-Xylene
Concen: 0.450 ug/l
RT: 10.094 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:106 Resp: 543

Ion	Ratio	Lower	Upper
106	100		
91	216.6	108.1	324.4



Instrument :
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ClientSampleId :
VSTDICC0.5

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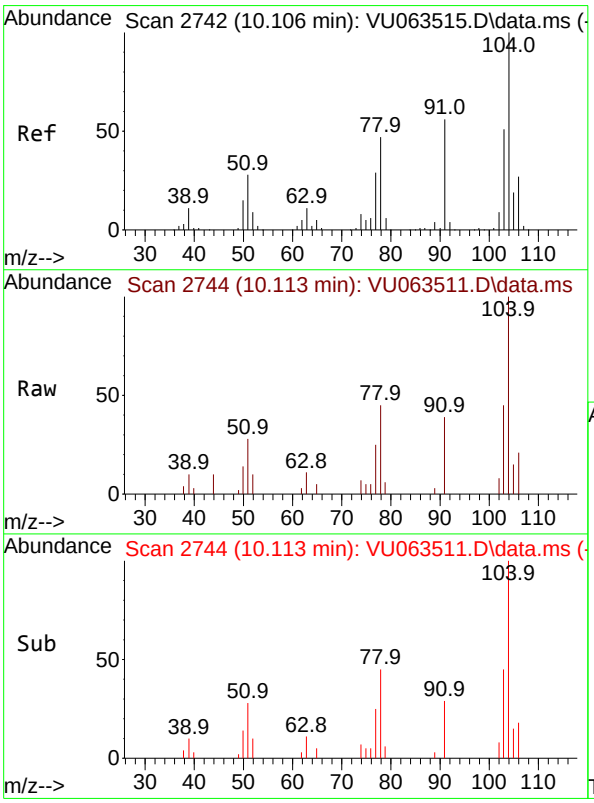
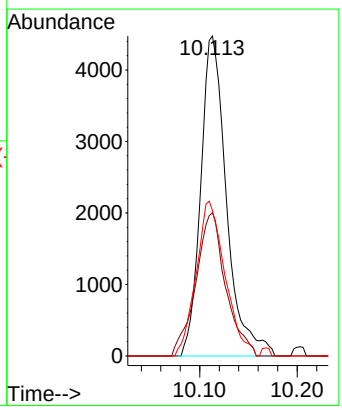
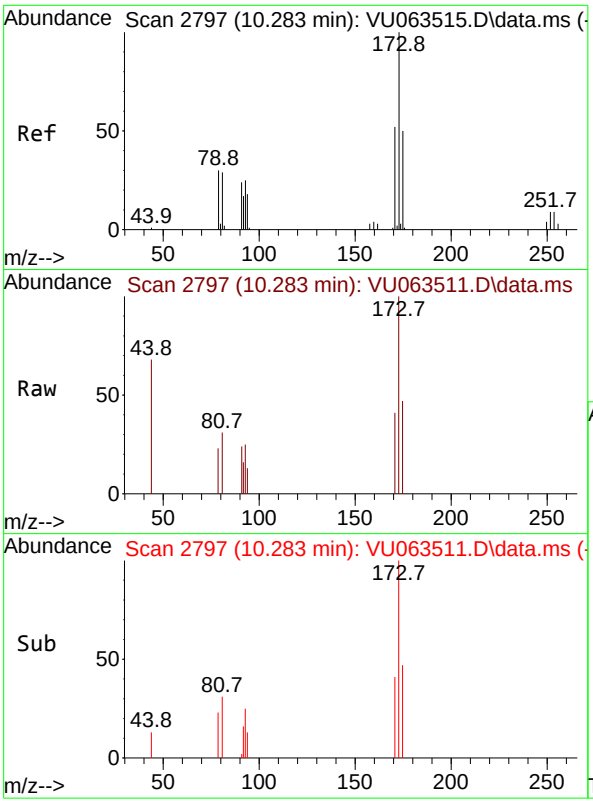


#66
Styrene
Concen: 0.429 ug/l
RT: 10.113 min Scan# 2744
Delta R.T. 0.007 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:104 Resp: 8244

Ion	Ratio	Lower	Upper
104	100		
78	51.6	41.3	61.9
103	54.1	43.6	65.4

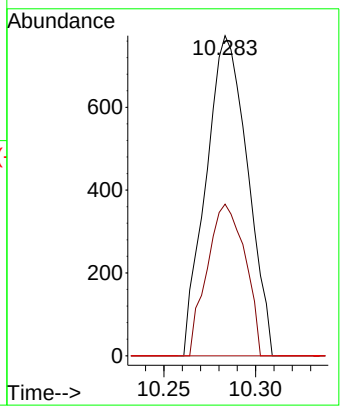




#67
Bromoform
Concen: 0.458 ug/l
RT: 10.283 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:173 Resp: 121

Ion	Ratio	Lower	Upper
173	100		
175	43.2	39.0	58.4
254	0.0	6.5	9.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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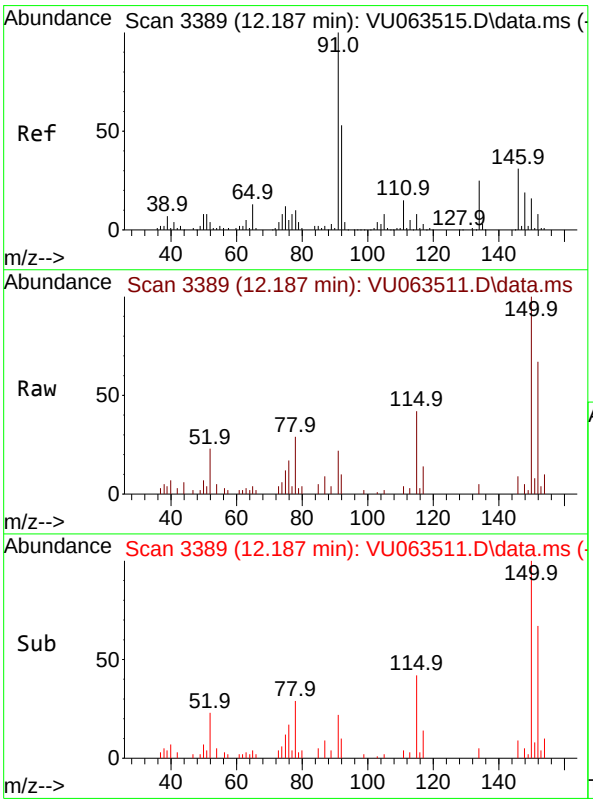
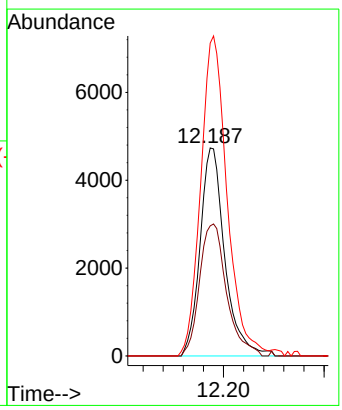
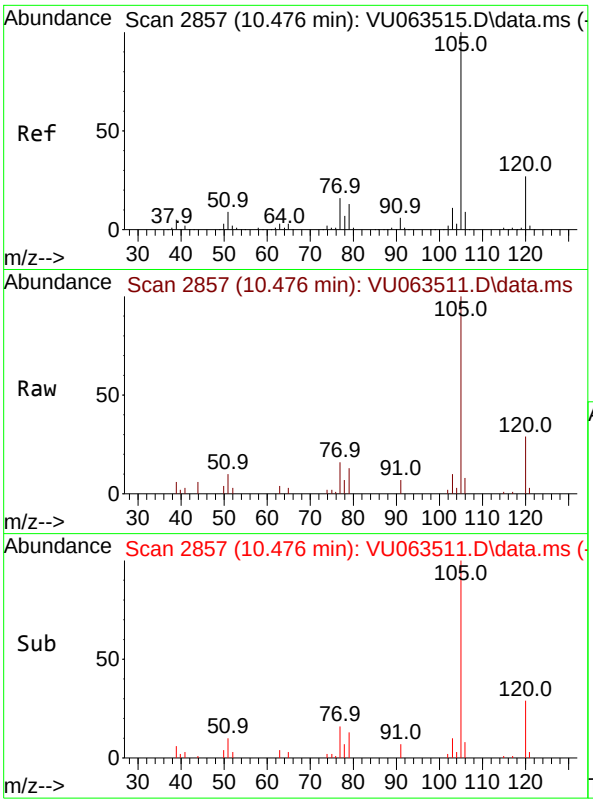


#68
1,2-Dichlorobenzene-d4
Concen: 0.909 ug/l
RT: 12.187 min Scan# 3389
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:152 Resp: 8092

Ion	Ratio	Lower	Upper
152	100		
115	69.1	0.0	262.2
150	163.6	0.0	651.2





#69
Isopropylbenzene
Concen: 0.442 ug/l
RT: 10.476 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:105 Resp: 1291

Ion	Ratio	Lower	Upper
105	100		
120	29.4	13.2	39.5

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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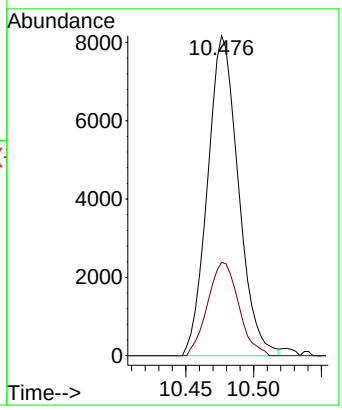
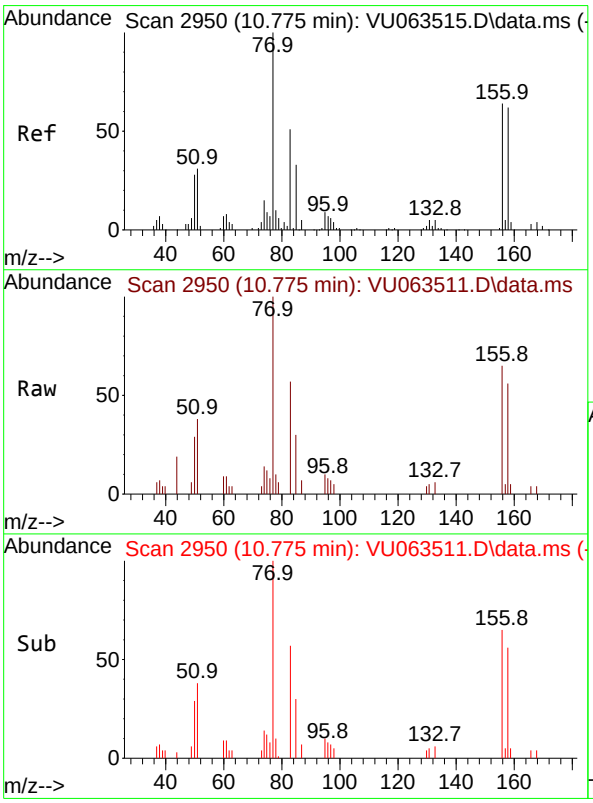
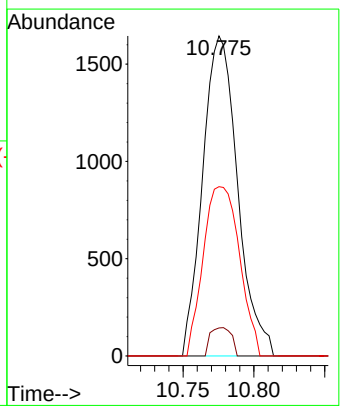


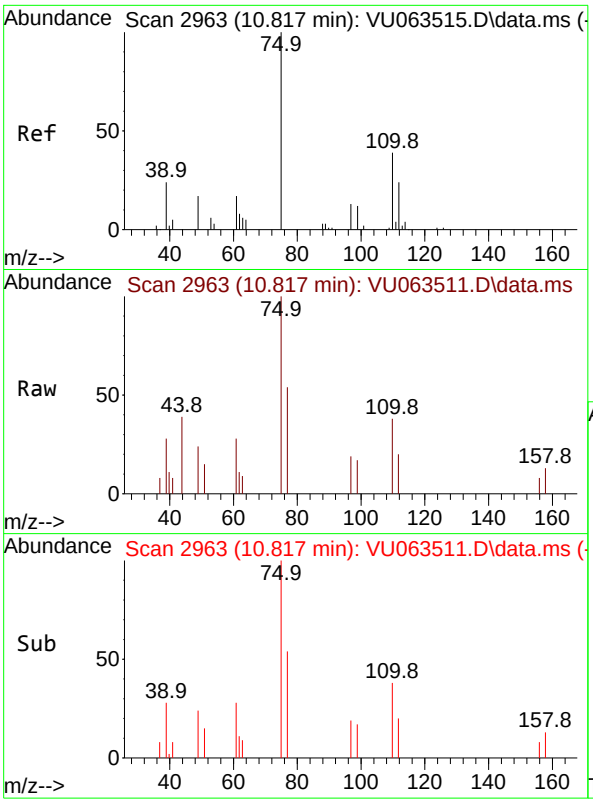


#70
1,1,2,2-Tetrachloroethane
Concen: 0.474 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 83 Resp: 2820

Ion	Ratio	Lower	Upper
83	100		
131	5.4	8.4	12.6#
85	54.9	51.9	77.9

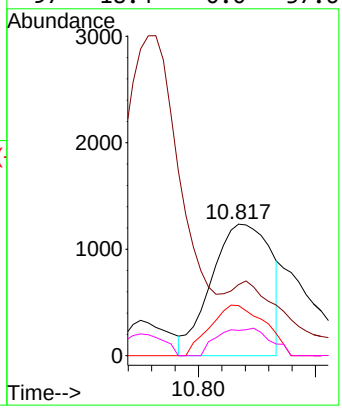




#71
1,2,3-Trichloropropane
Concen: 0.449 ug/l m
RT: 10.817 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 75 Resp: 217

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	35.5	0.0	73.2
97	18.4	0.0	37.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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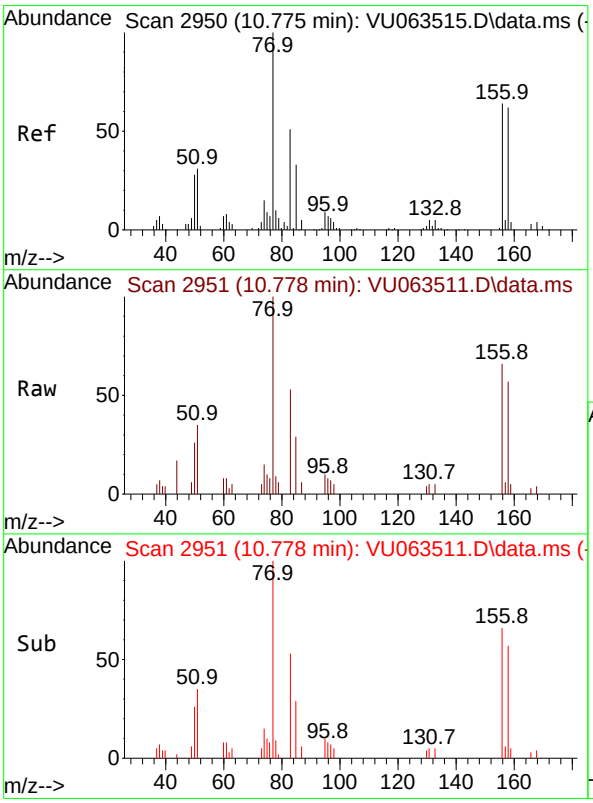
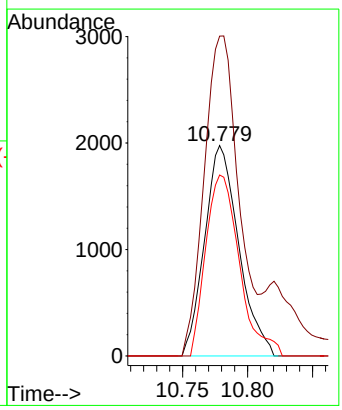
Supervised By :Semsettin Yesilyurt 07/17/2025

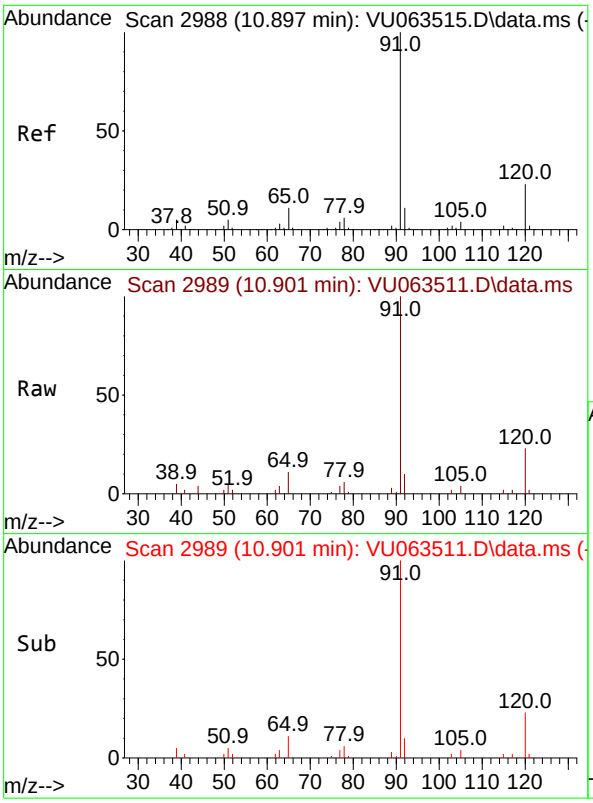


#72
Bromobenzene
Concen: 0.479 ug/l
RT: 10.778 min Scan# 2951
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:156 Resp: 3609

Ion	Ratio	Lower	Upper
156	100		
77	152.5	0.0	315.2
158	84.9	0.0	195.4

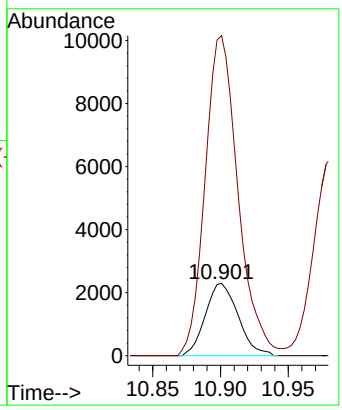




#73
n-propylbenzene
Concen: 0.438 ug/l
RT: 10.901 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:120 Resp: 385

Ion	Ratio	Lower	Upper
120	100		
91	445.4	343.1	514.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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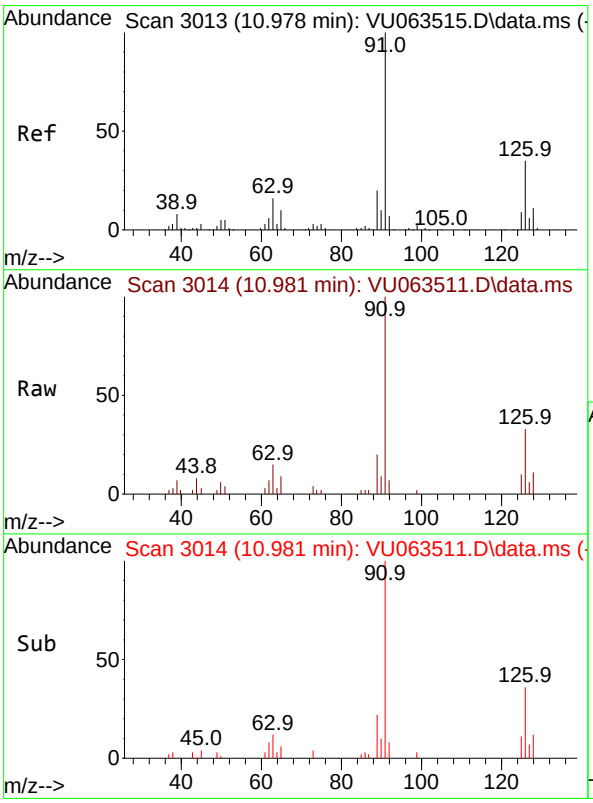
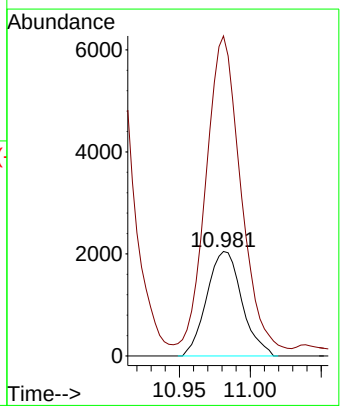
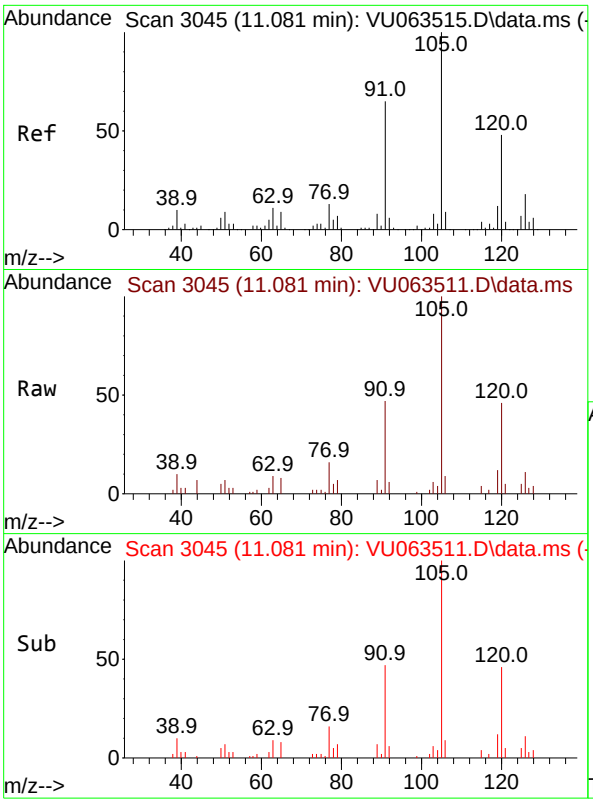


#74
2-Chlorotoluene
Concen: 0.454 ug/l
RT: 10.981 min Scan# 3014
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:126 Resp: 3528

Ion	Ratio	Lower	Upper
126	100		
91	295.8	0.0	606.0

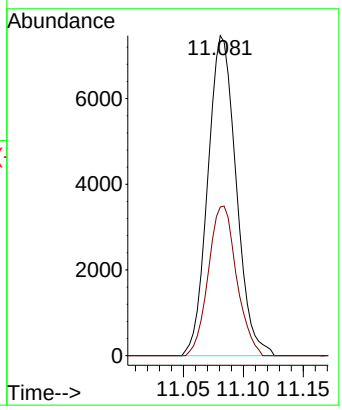




#75
1,3,5-Trimethylbenzene
Concen: 0.441 ug/l
RT: 11.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:105 Resp: 1228

Ion	Ratio	Lower	Upper
105	100		
120	46.5	37.8	56.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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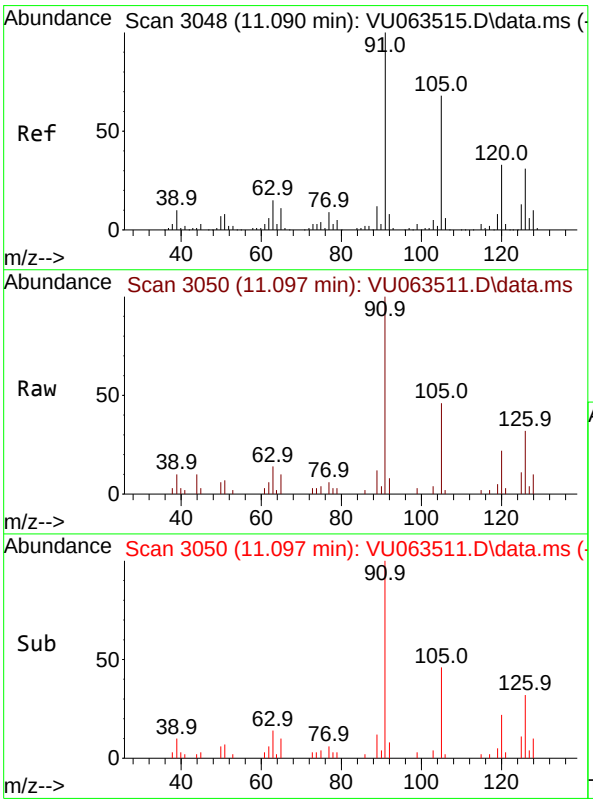
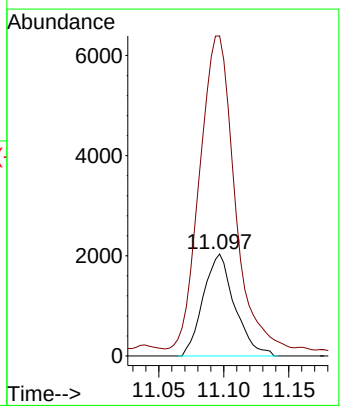
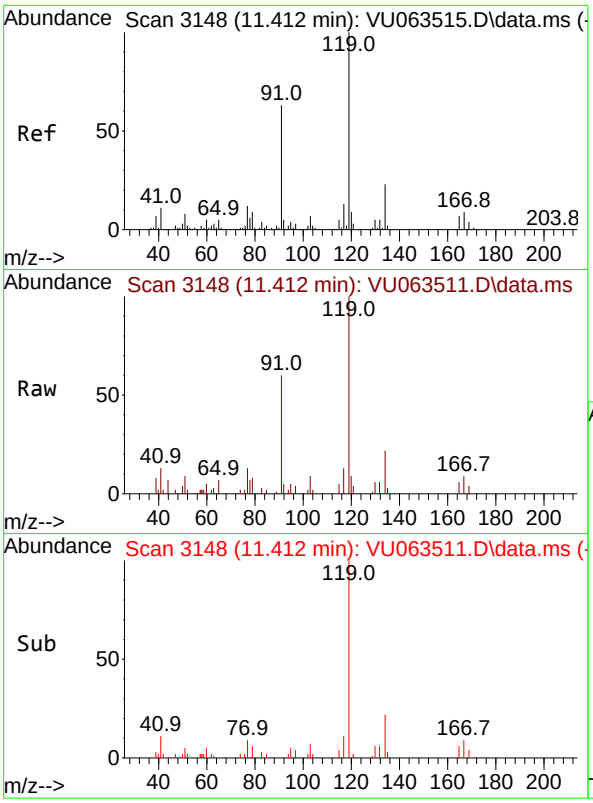


#76
4-Chlorotoluene
Concen: 0.434 ug/l
RT: 11.097 min Scan# 3050
Delta R.T. 0.007 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:126 Resp: 3423

Ion	Ratio	Lower	Upper
126	100		
91	339.4	0.0	682.2

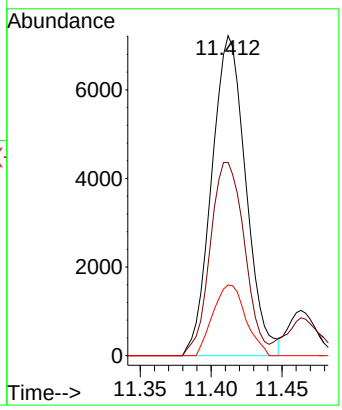




#77
tert-Butylbenzene
Concen: 0.455 ug/l
RT: 11.412 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:119 Resp: 1212

Ion	Ratio	Lower	Upper
119	100		
91	60.6	30.7	92.1
134	21.1	18.5	27.7



Instrument :
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ClientSampleId :
VSTDICC0.5

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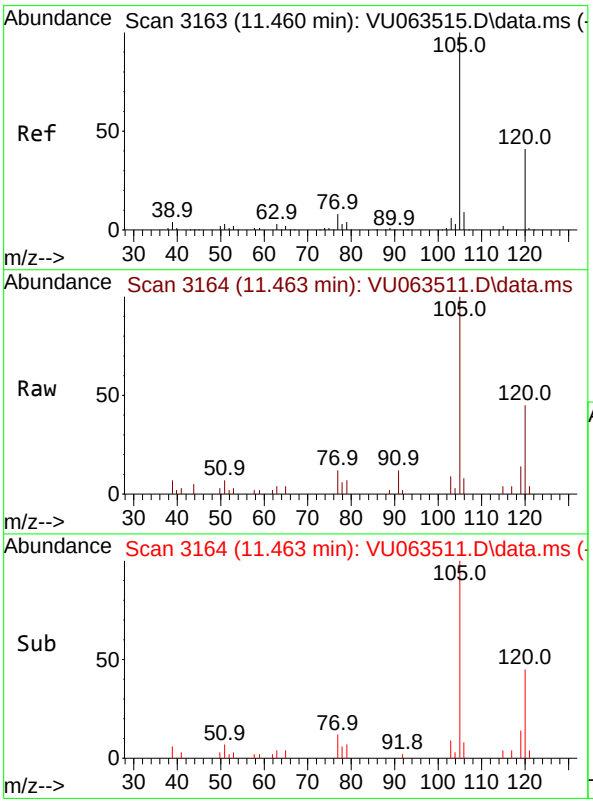
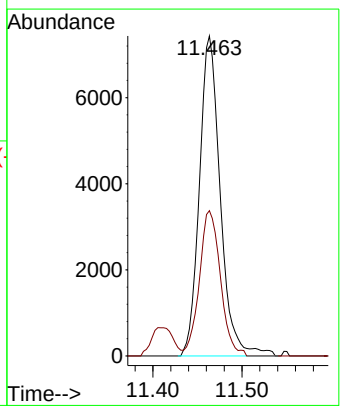
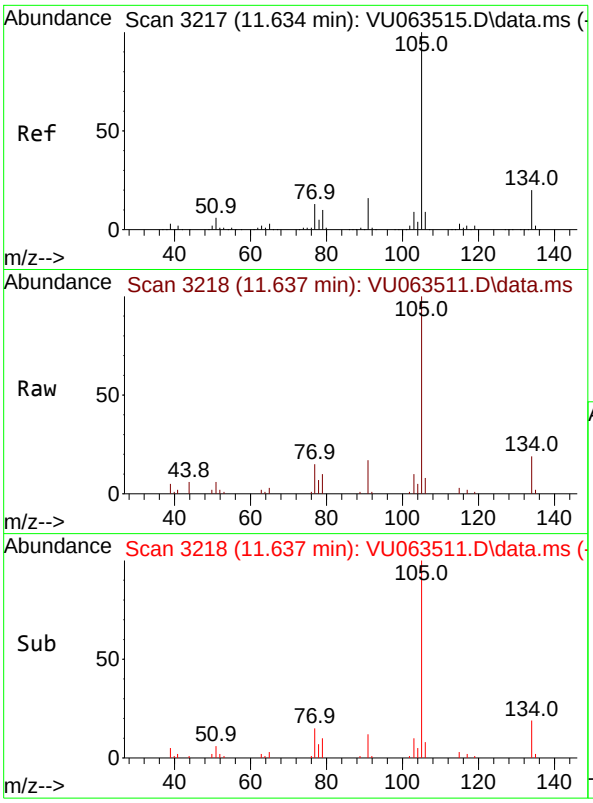


#78
1,2,4-Trimethylbenzene
Concen: 0.438 ug/l
RT: 11.463 min Scan# 3164
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:105 Resp: 12110

Ion	Ratio	Lower	Upper
105	100		
120	45.6	22.7	68.0





#79
sec-Butylbenzene
Concen: 0.434 ug/l
RT: 11.637 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:105 Resp: 1557

Ion	Ratio	Lower	Upper
105	100		
134	19.3	16.2	24.4

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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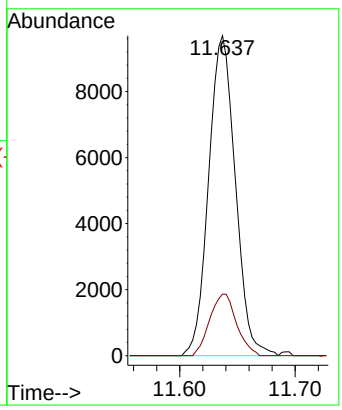
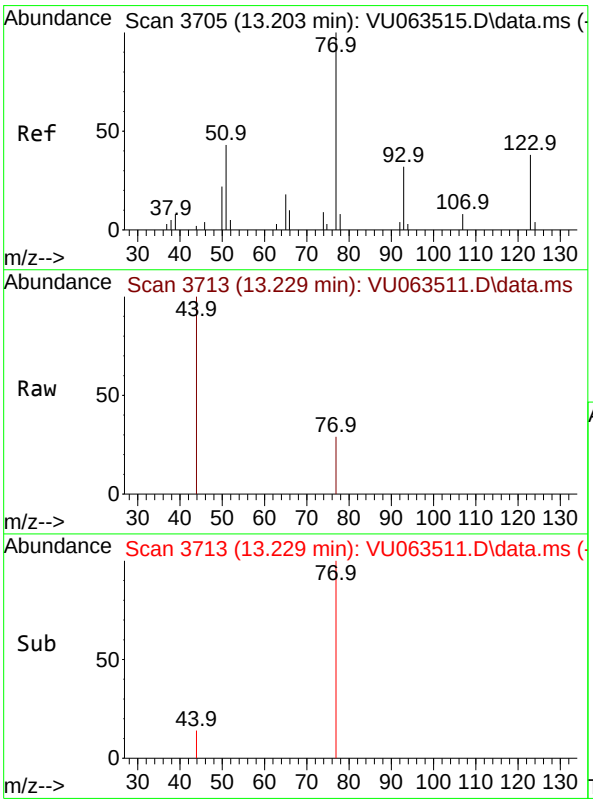
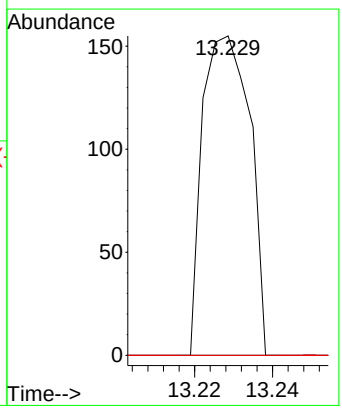


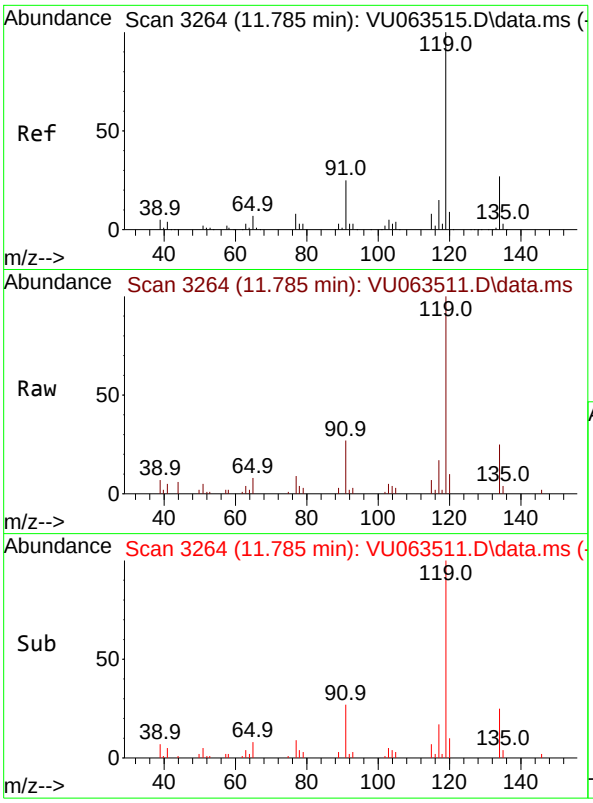


#80
Nitrobenzene
Concen: 2.628 ug/l
RT: 13.229 min Scan# 3713
Delta R.T. 0.026 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 77 Resp: 131

Ion	Ratio	Lower	Upper
77	100		
123	0.0	16.9	59.7#
65	0.0	16.5	20.9#

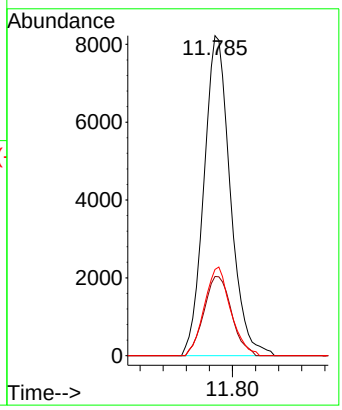




#81
p-Isopropyltoluene
Concen: 0.433 ug/l
RT: 11.785 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:119 Resp: 1300

Ion	Ratio	Lower	Upper
119	100		
134	26.0	21.1	31.7
91	27.6	19.8	29.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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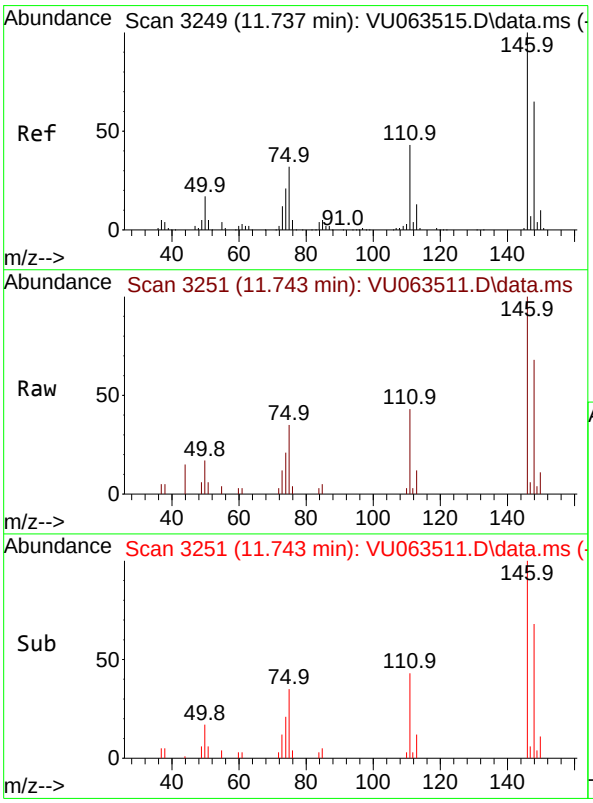
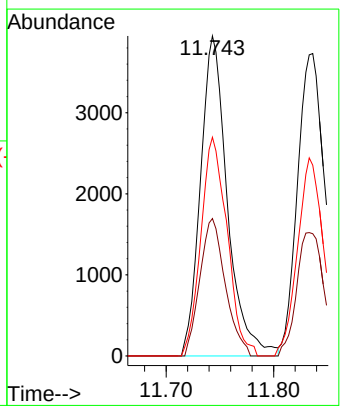
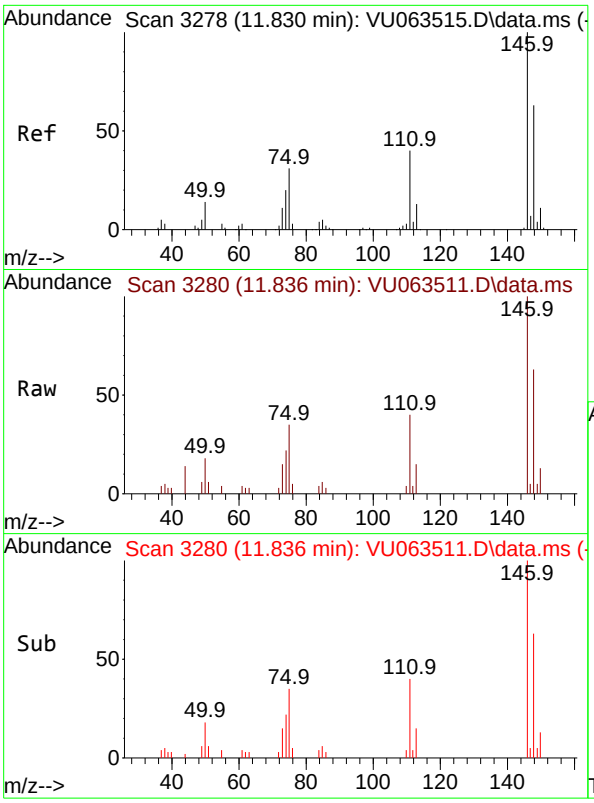


#82
1,3-Dichlorobenzene
Concen: 0.455 ug/l
RT: 11.743 min Scan# 3251
Delta R.T. 0.007 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:146 Resp: 6856

Ion	Ratio	Lower	Upper
146	100		
111	40.7	33.8	50.6
148	66.7	51.5	77.3

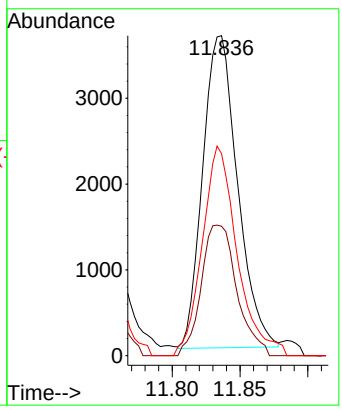




#83
1,4-Dichlorobenzene
Concen: 0.432 ug/l
RT: 11.836 min Scan# 3
Delta R.T. 0.007 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:146 Resp: 651

Ion	Ratio	Lower	Upper
146	100		
111	42.7	32.0	48.0
148	67.1	50.2	75.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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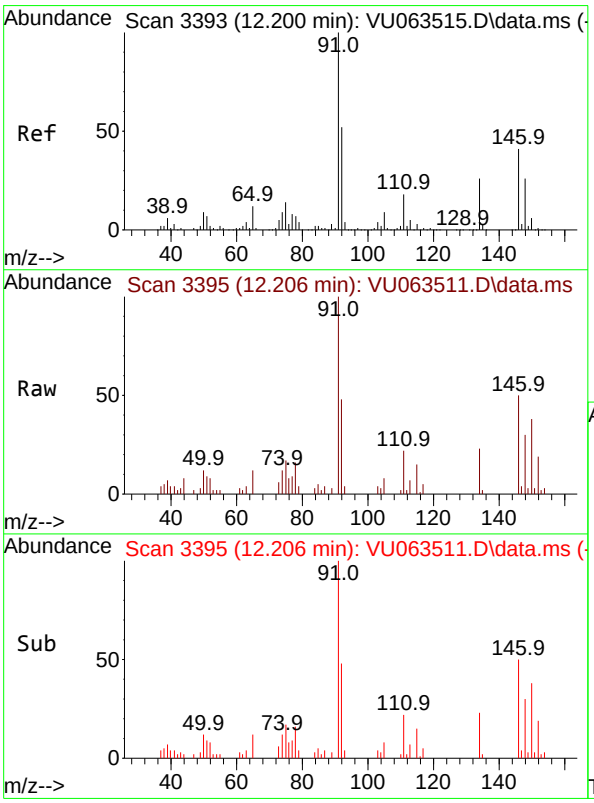
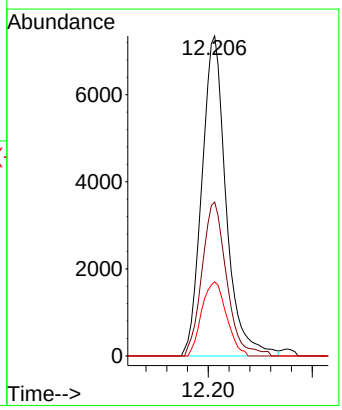
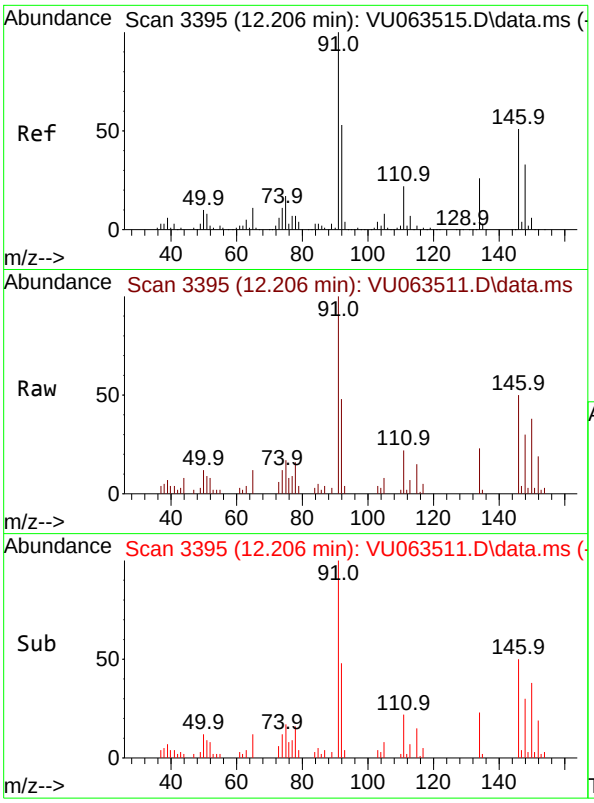


#84
n-Butylbenzene
Concen: 0.427 ug/l
RT: 12.206 min Scan# 3395
Delta R.T. 0.006 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 91 Resp: 11864

Ion	Ratio	Lower	Upper
91	100		
92	49.0	41.5	62.3
134	23.6	20.6	30.8

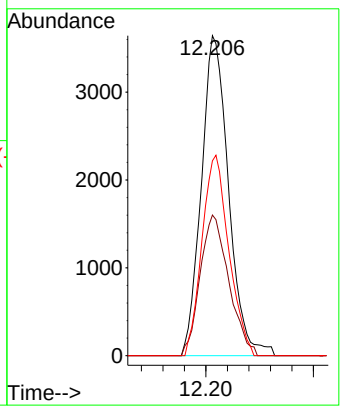




#85
1,2-Dichlorobenzene
Concen: 0.452 ug/l
RT: 12.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:146 Resp: 640

Ion	Ratio	Lower	Upper
146	100		
111	46.3	21.7	65.1
148	61.8	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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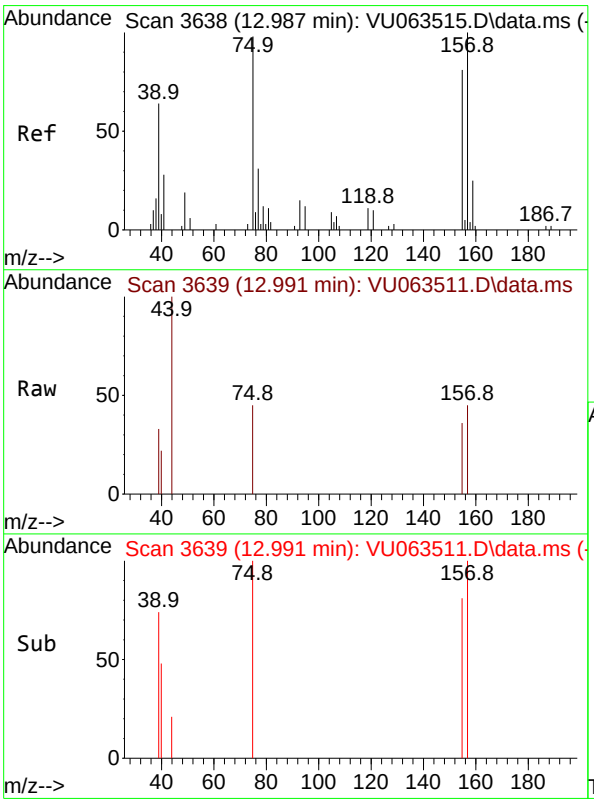
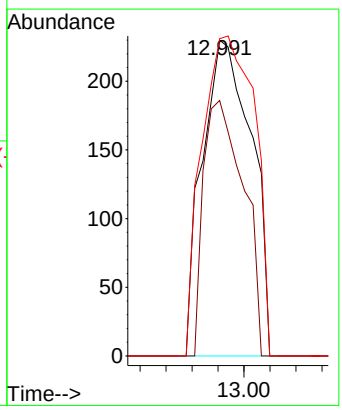
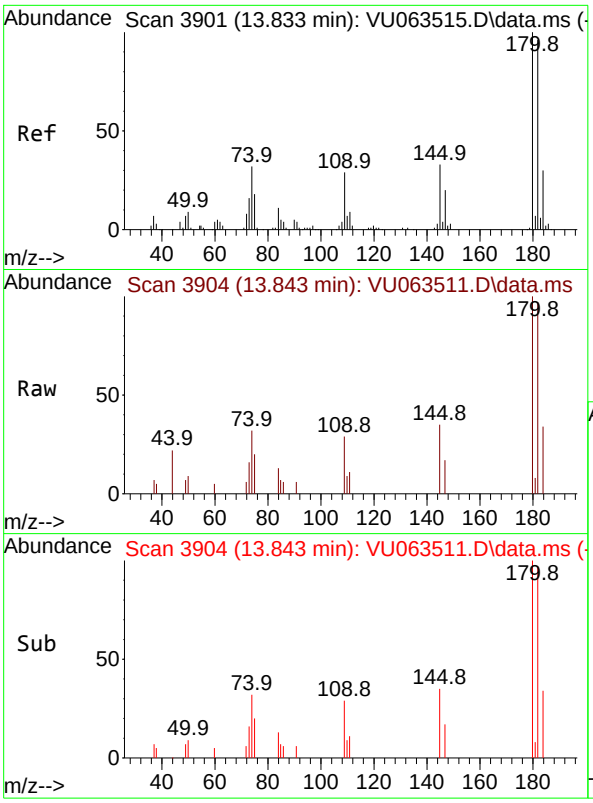


#86
1,2-Dibromo-3-Chloropropane
Concen: 0.533 ug/l
RT: 12.991 min Scan# 3639
Delta R.T. 0.004 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion: 75 Resp: 302

Ion	Ratio	Lower	Upper
75	100		
155	65.9	65.8	98.6
157	108.6	81.4	122.2

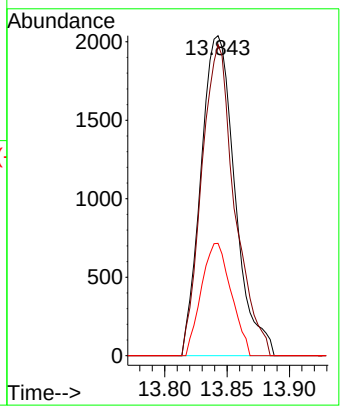




#87
1,2,4-Trichlorobenzene
Concen: 0.439 ug/l
RT: 13.843 min Scan# 3
Delta R.T. 0.010 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:180 Resp: 386

Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.2	114.4
145	30.8	26.2	39.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

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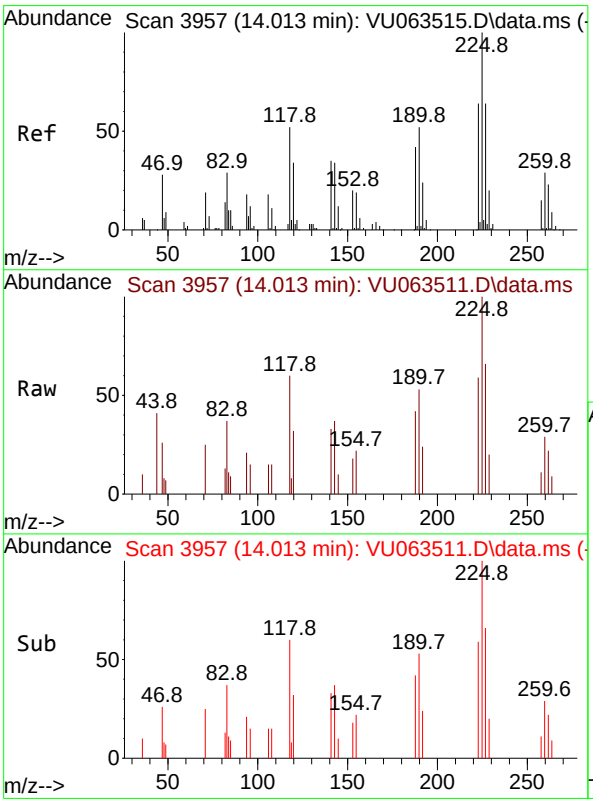
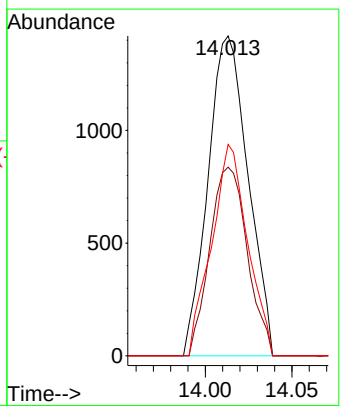
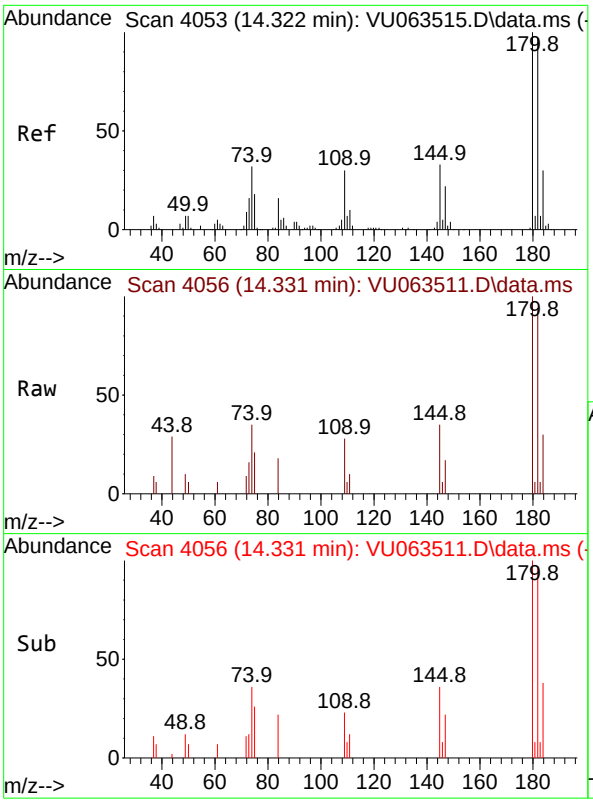


#88
Hexachlorobutadiene
Concen: 0.456 ug/l
RT: 14.013 min Scan# 3957
Delta R.T. 0.000 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:225 Resp: 2280

Ion	Ratio	Lower	Upper
225	100		
223	55.3	50.8	76.2
227	59.5	51.0	76.6

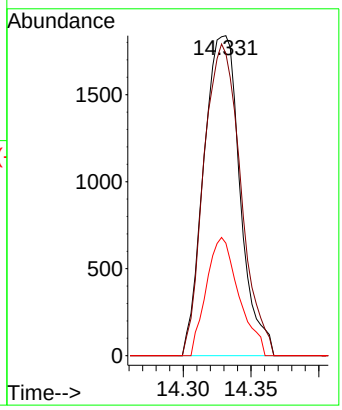




#90
1,2,3-Trichlorobenzene
Concen: 0.420 ug/l
RT: 14.331 min Scan# 4
Delta R.T. 0.010 min
Lab File: VU063511.D
Acq: 16 Jul 2025 09:24

Tgt Ion:180 Resp: 342

Ion	Ratio	Lower	Upper
180	100		
182	98.9	78.0	117.0
145	33.1	27.3	40.9



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063512.D
Acq On : 16 Jul 2025 09:54
Operator : MD/SY
Sample : VSTDICC001
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:22:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.097	96	22455	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	9200	1.082	ug/l	0.00
Spiked Amount 1.000			Recovery = 108.000%			
68) 1,2-Dichlorobenzene-d4	12.187	152	8165	1.038	ug/l	0.00
Spiked Amount 1.000			Recovery = 104.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.380	85	6462	0.976	ug/l	96
3) Chloromethane	1.518	50	6530	1.061	ug/l	98
4) Vinyl Chloride	1.599	62	7920	1.010	ug/l	100
5) Bromomethane	1.846	94	6488	1.098	ug/l	95
6) Chloroethane	1.927	64	4751	1.004	ug/l	98
7) Trichlorofluoromethane	2.129	101	11403	1.013	ug/l	99
8) 1,1,2-Trichloro-1,2,2-...	2.570	101	5996	1.019	ug/l	99
9) 1,1-Dichloroethene	2.567	96	5877	1.008	ug/l	95
10) Iodomethane	2.708	142	5353	1.474	ug/l	98
11) Allyl Chloride	2.911	41	8367	0.993	ug/l	94
12) Acrylonitrile	3.306	53	3107	2.130	ug/l	95
13) Acetone	2.618	43	5459	4.673	ug/l	99
14) Carbon Disulfide	2.779	76	19044	1.011	ug/l	98
15) Methylene Chloride	3.030	84	7367	1.073	ug/l	91
16) trans-1,2-Dichloroethene	3.335	96	6995	1.056	ug/l	86
17) 1,1-Dichloroethane	3.849	63	12773	1.041	ug/l	99
18) 2-Butanone	4.714	43	9101	5.031	ug/l	99
19) Cyclohexane	5.354	56	11111	1.069	ug/l	99
20) Methylcyclohexane	6.743	83	9890	0.979	ug/l	98
21) 2,2-Dichloropropane	4.644	77	10936	1.047	ug/l	97
22) cis-1,2-Dichloroethene	4.644	96	7782	1.083	ug/l	96
23) Diethyl Ether	2.370	59	4538	1.022	ug/l #	89
24) tert-Butyl Alcohol	3.190	59	5615	10.471	ug/l	95
25) Methyl tert-Butyl Ether	3.361	73	15721	1.033	ug/l	96
26) Bromochloromethane	4.959	128	2951	0.984	ug/l	95
27) Chloroform	5.071	83	13121	1.048	ug/l	96
28) 1,1,1-Trichloroethane	5.293	97	10709	1.008	ug/l	98
29) 1,1-Dichloropropene	5.502	75	10221	1.038	ug/l	99
30) Carbon Tetrachloride	5.496	117	8599	1.005	ug/l	99
31) Isopropyl Ether	3.994	45	19202	1.037	ug/l	98
32) Ethyl-t-butyl ether	4.502	59	17970	1.048	ug/l	97
33) Tert-Amyl methyl ether	5.943	73	13496	0.907	ug/l	98
34) Propionitrile	4.779	54	2874	5.214	ug/l #	97
35) Benzene	5.756	78	22692	0.858	ug/l	99
36) 1,2-Dichloroethane	5.782	62	7451	0.906	ug/l #	85
37) Trichloroethene	6.528	130	6347	0.940	ug/l	99
38) 1,2-Dichloropropane	6.782	63	5862	0.947	ug/l	98
39) Methacrylonitrile	4.972	41	2368	0.979	ug/l	89
40) Methyl acrylate	4.843	55	3610	1.008	ug/l #	85
41) Tetrahydrofuran	5.065	42	2432	1.887	ug/l	93
42) 1-Chlorobutane	5.435	56	12913	0.987	ug/l	99
43) Dibromomethane	6.910	93	3011	0.939	ug/l	94
44) Bromodichloromethane	7.097	83	6824	0.943	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063512.D
Acq On : 16 Jul 2025 09:54
Operator : MD/SY
Sample : VSTDICC001
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:22:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 4-Methyl-2-Pentanone	7.798	43	16478	4.985	ug/l		96
46) t-1,4-Dichloro-2-butene	10.823	75	2681m	2.286	ug/l		
47) Methyl methacrylate	6.968	69	4791	1.779	ug/l		97
48) Ethyl methacrylate	8.338	69	4500	0.875	ug/l		84
49) Toluene	7.962	92	14592	1.010	ug/l		100
50) t-1,3-Dichloropropene	8.209	75	5194	0.915	ug/l		97
51) cis-1,3-Dichloropropene	7.602	75	6989	0.918	ug/l		99
52) 1,1,2-Trichloroethane	8.396	97	4414	1.022	ug/l		94
53) 1,3-Dichloropropane	8.569	76	7339	0.985	ug/l		100
54) 2-Hexanone	8.695	43	10847	4.940	ug/l		93
55) Dibromochloromethane	8.804	129	4122	0.903	ug/l		97
56) 1,2-Dibromoethane	8.920	107	3787	0.980	ug/l		99
58) Tetrachloroethene	8.541	164	6276	1.016	ug/l		97
59) Chlorobenzene	9.441	112	16495	0.994	ug/l		96
60) 1,1,1,2-Tetrachloroethane	9.524	131	5306	0.995	ug/l		98
61) Pentachloroethane	11.418	117	3370	0.894	ug/l		98
62) Hexachloroethane	12.466	117	3268	0.875	ug/l		97
63) Ethyl Benzene	9.563	91	28308	0.992	ug/l		98
64) m/p-Xylenes	9.688	106	21130	1.904	ug/l		97
65) o-Xylene	10.094	106	10385	0.974	ug/l		97
66) Styrene	10.110	104	16060	0.945	ug/l		98
67) Bromoform	10.286	173	1899	0.810	ug/l	#	94
69) Isopropylbenzene	10.476	105	25098	0.974	ug/l		99
70) 1,1,2,2-Tetrachloroethane	10.778	83	5141	0.978	ug/l	#	98
71) 1,2,3-Trichloropropane	10.817	75	4435m	1.034	ug/l		
72) Bromobenzene	10.778	156	6362	0.956	ug/l		96
73) n-propylbenzene	10.901	120	7341	0.946	ug/l		96
74) 2-Chlorotoluene	10.978	126	6695	0.976	ug/l		95
75) 1,3,5-Trimethylbenzene	11.081	105	23269	0.945	ug/l		99
76) 4-Chlorotoluene	11.094	126	6734	0.967	ug/l		99
77) tert-Butylbenzene	11.412	119	22171	0.942	ug/l		95
78) 1,2,4-Trimethylbenzene	11.463	105	23102	0.946	ug/l		100
79) sec-Butylbenzene	11.637	105	30908	0.974	ug/l		98
80) Nitrobenzene	13.232	77	400m	5.705	ug/l		
81) p-Isopropyltoluene	11.785	119	24799	0.936	ug/l		99
82) 1,3-Dichlorobenzene	11.743	146	12830	0.964	ug/l		98
83) 1,4-Dichlorobenzene	11.833	146	12848	0.964	ug/l		97
84) n-Butylbenzene	12.203	91	22541	0.917	ug/l		98
85) 1,2-Dichlorobenzene	12.206	146	12071	0.965	ug/l		98
86) 1,2-Dibromo-3-Chloropr...	12.991	75	603	0.991	ug/l		92
87) 1,2,4-Trichlorobenzene	13.839	180	7020	0.903	ug/l		98
88) Hexachlorobutadiene	14.013	225	4144	0.938	ug/l		98
89) Naphthalene	14.087	128	11965	0.859	ug/l		97
90) 1,2,3-Trichlorobenzene	14.325	180	6612	0.920	ug/l		99

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

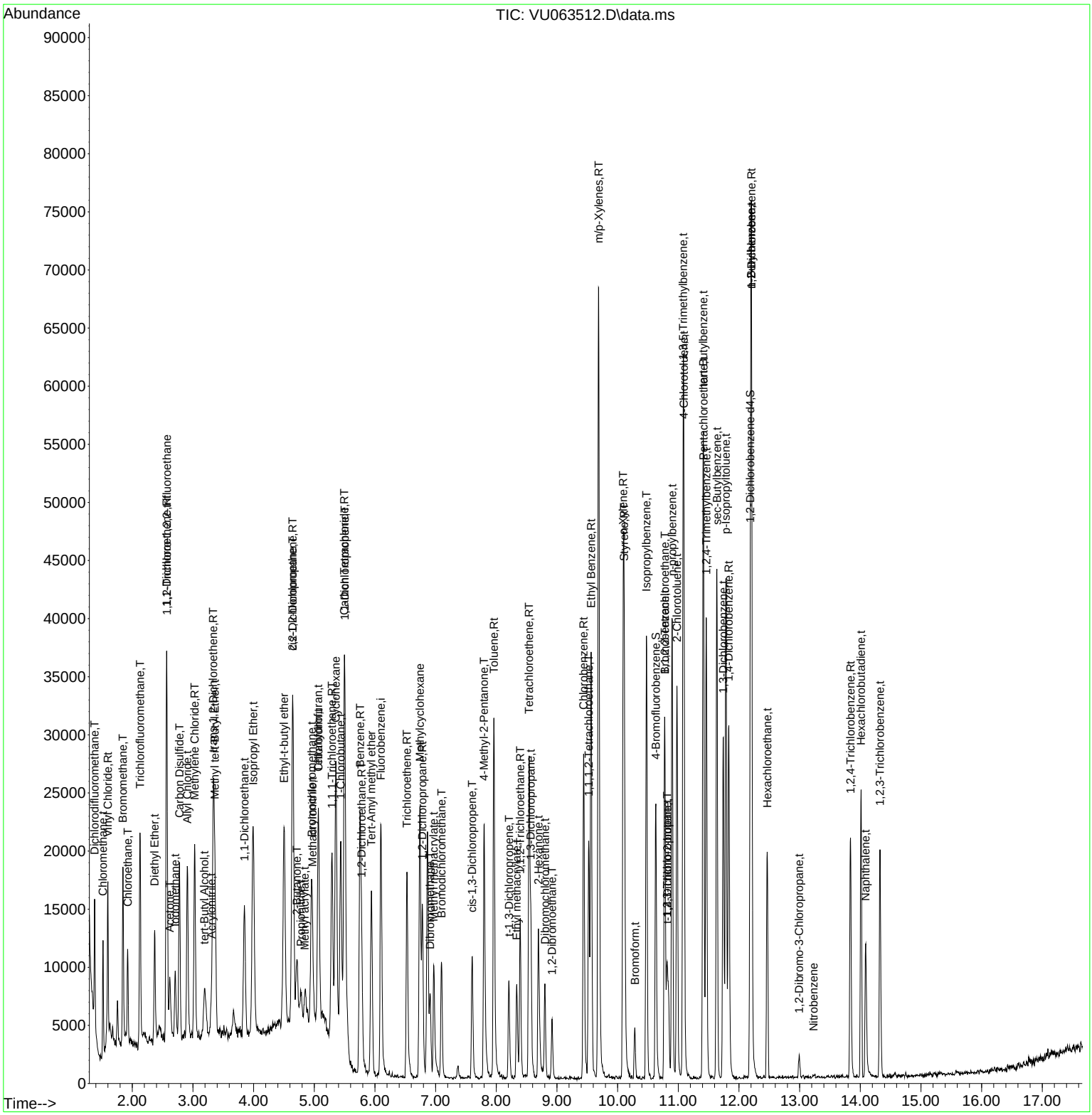
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063512.D
Acq On : 16 Jul 2025 09:54
Operator : MD/SY
Sample : VSTDICC001
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

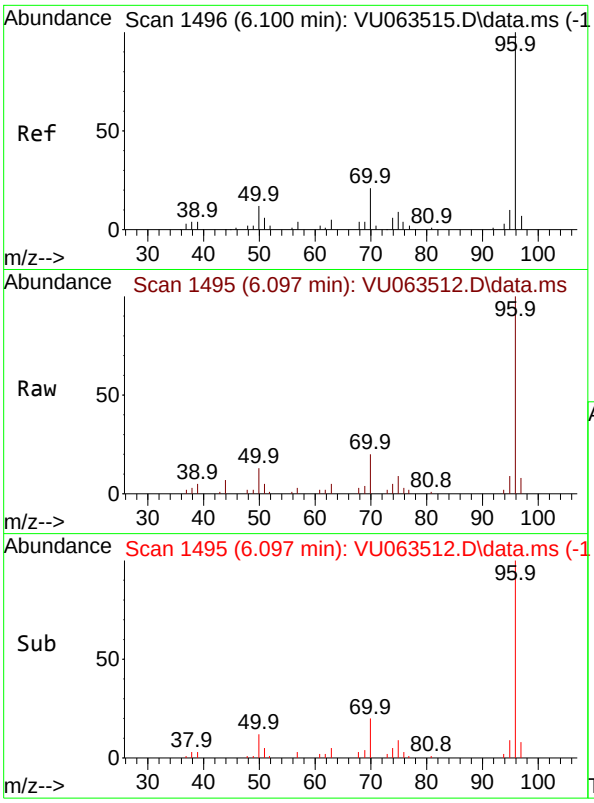
Quant Time: Jul 17 03:22:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

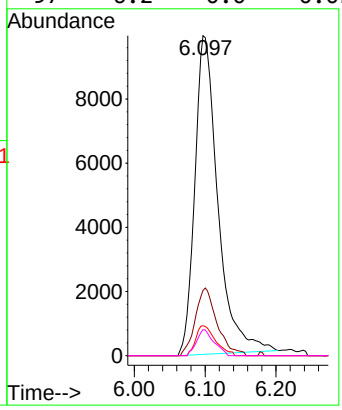




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.097 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 96 Resp: 2245

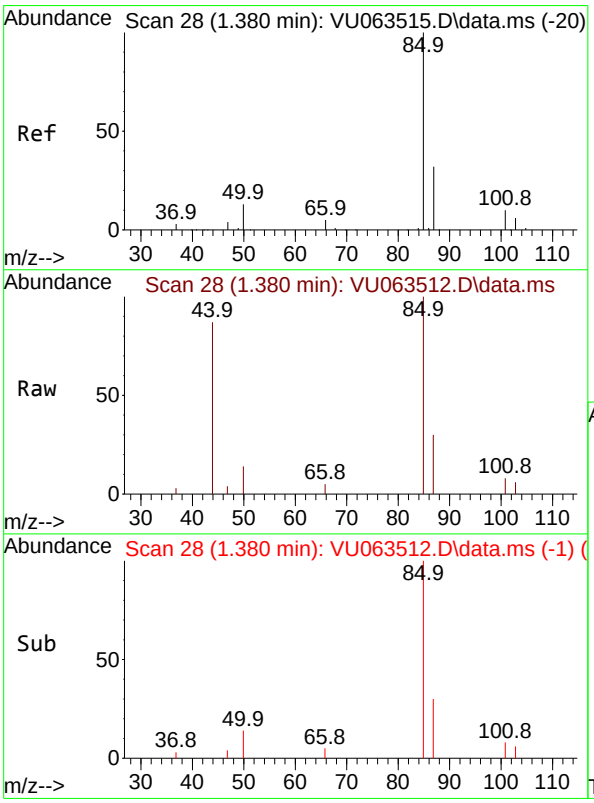
Ion	Ratio	Lower	Upper
96	100		
70	20.0	15.0	22.4
95	8.0	7.4	11.0
97	6.2	0.0	0.0#



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

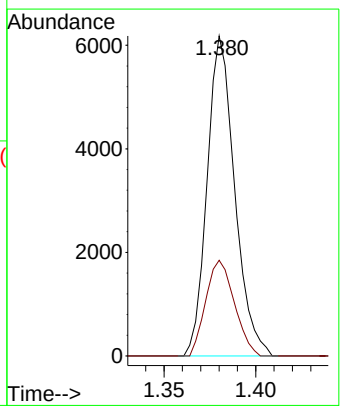
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

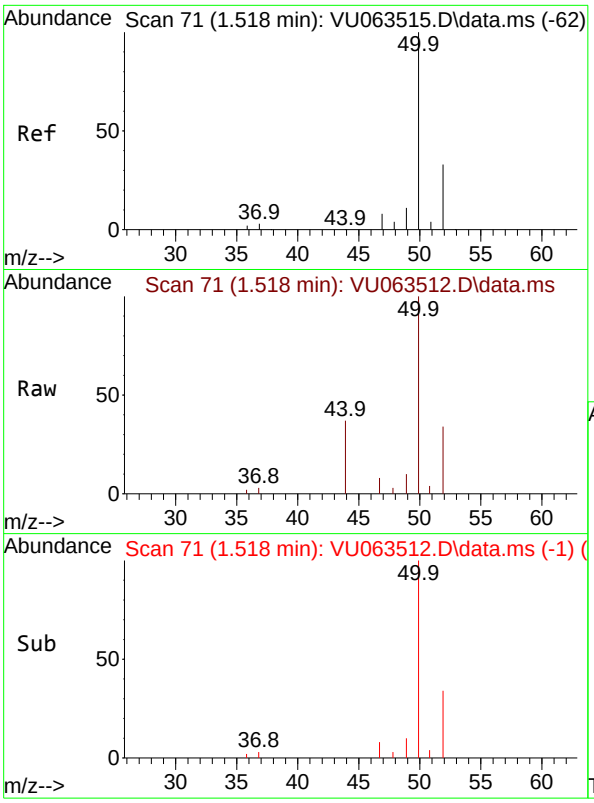


#2
Dichlorodifluoromethane
Concen: 0.976 ug/l
RT: 1.380 min Scan# 28
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 85 Resp: 6462

Ion	Ratio	Lower	Upper
85	100		
87	29.9	16.0	47.9

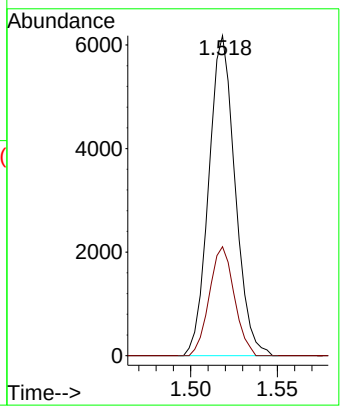




#3
Chloromethane
Concen: 1.061 ug/l
RT: 1.518 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 50 Resp: 653

Ion	Ratio	Lower	Upper
50	100		
52	34.1	26.3	39.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
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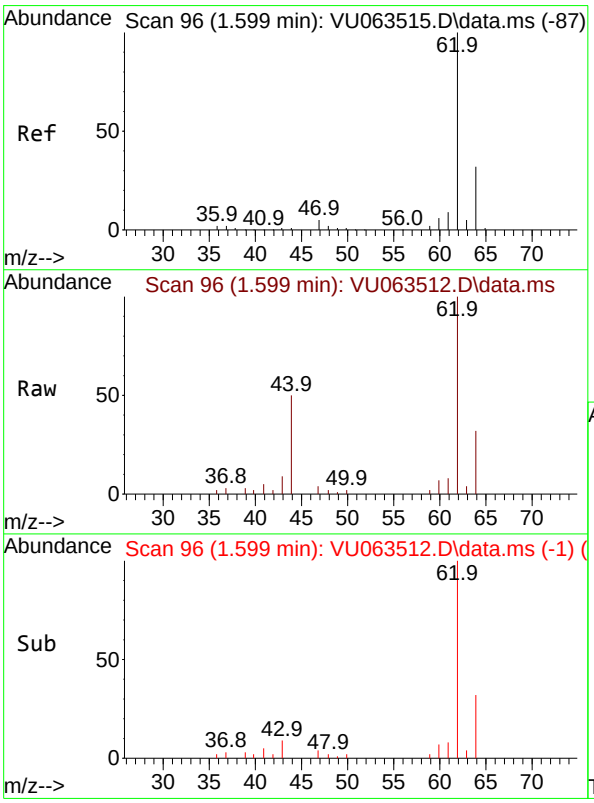
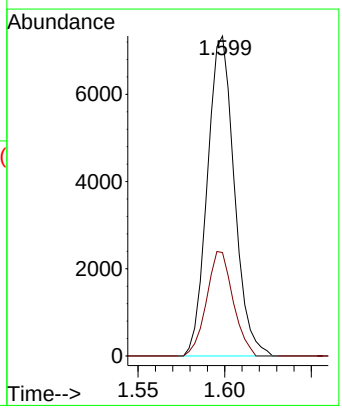
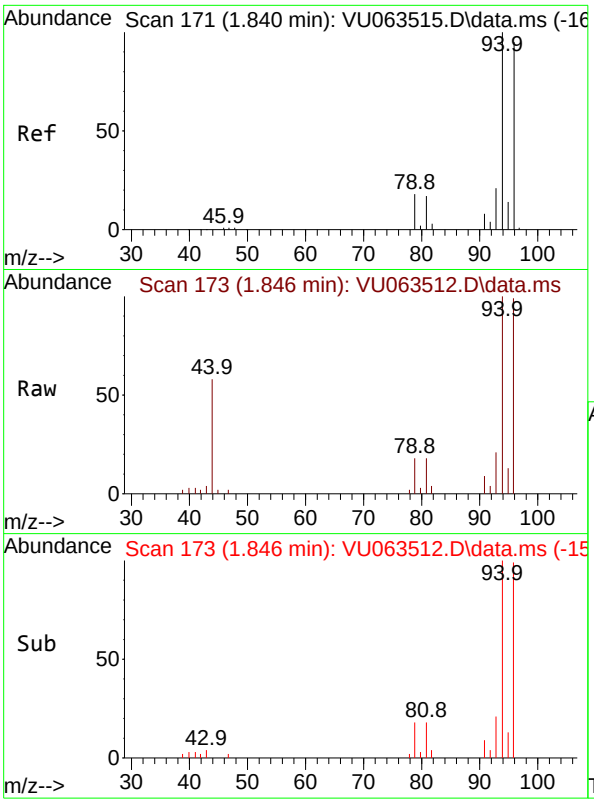


#4
Vinyl Chloride
Concen: 1.010 ug/l
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 62 Resp: 7920

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.7	38.5

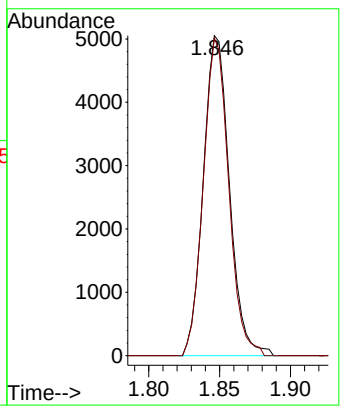




#5
Bromomethane
Concen: 1.098 ug/l
RT: 1.846 min Scan# 1
Delta R.T. 0.006 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 94 Resp: 648

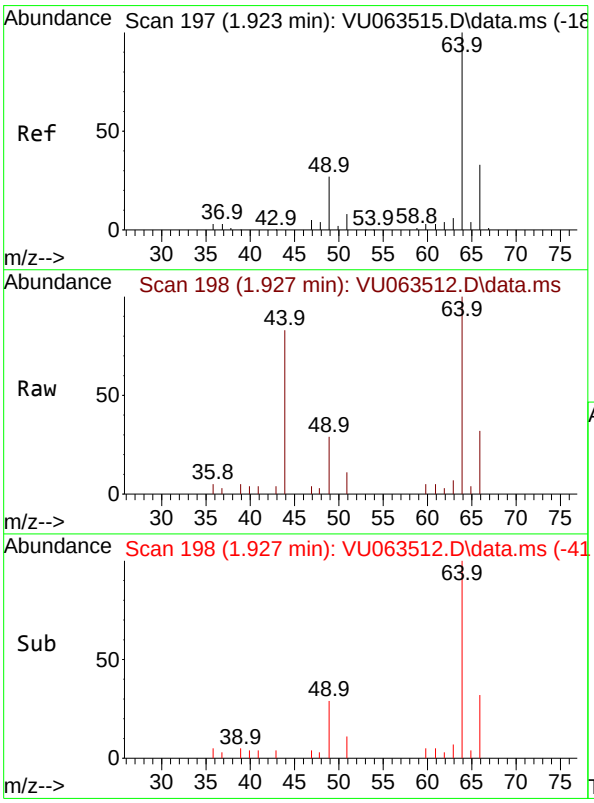
Ion	Ratio	Lower	Upper
94	100		
96	99.2	75.8	113.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

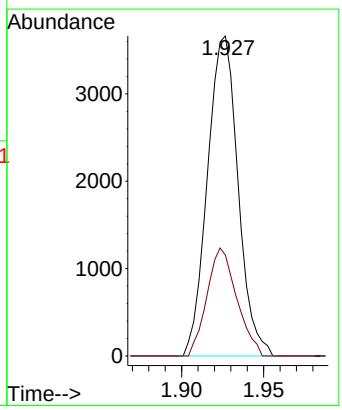
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

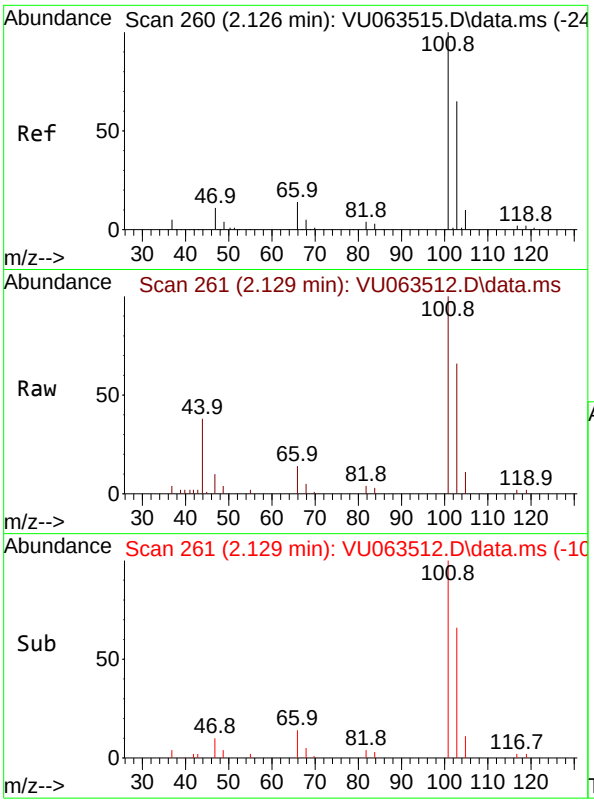


#6
Chloroethane
Concen: 1.004 ug/l
RT: 1.927 min Scan# 198
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 64 Resp: 4751

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.2	39.4





#7
Trichlorofluoromethane
Concen: 1.013 ug/l
RT: 2.129 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

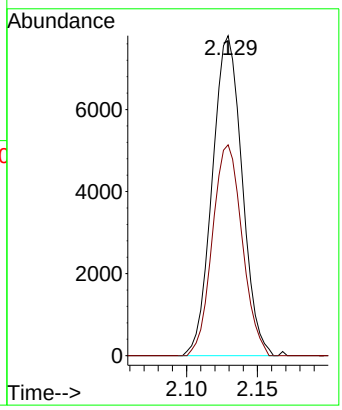
Tgt Ion:101 Resp: 1140

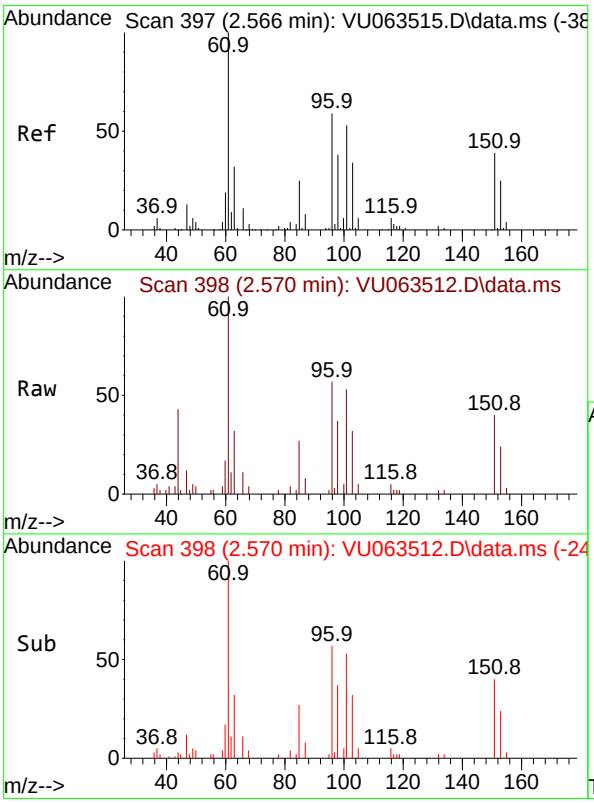
Ion	Ratio	Lower	Upper
101	100		
103	65.9	52.2	78.4

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

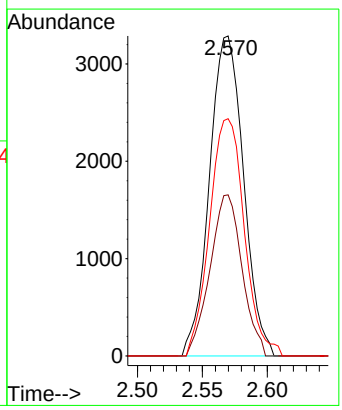


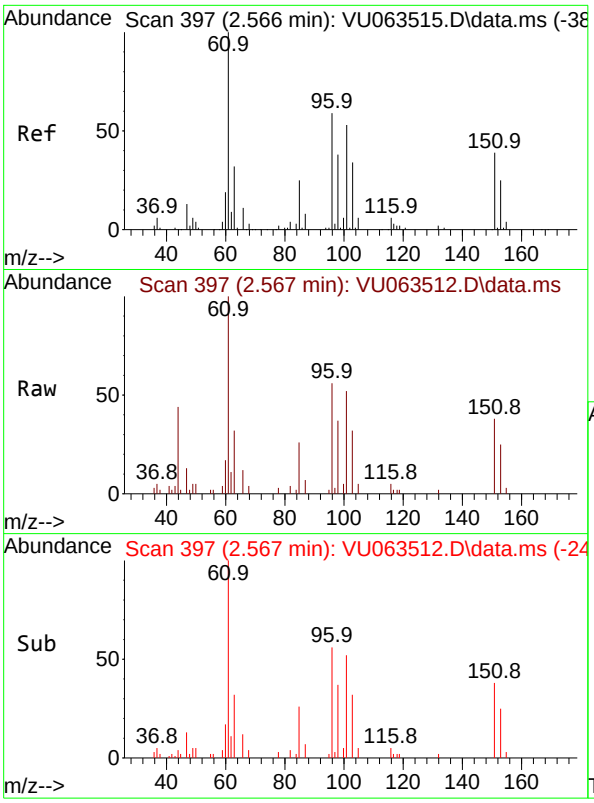


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.019 ug/l
RT: 2.570 min Scan# 398
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:101 Resp: 5996

Ion	Ratio	Lower	Upper
101	100		
85	47.3	37.8	56.6
151	75.6	59.2	88.8

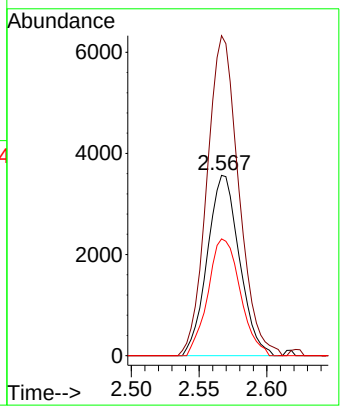




#9
1,1-Dichloroethene
Concen: 1.008 ug/l
RT: 2.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 96 Resp: 587

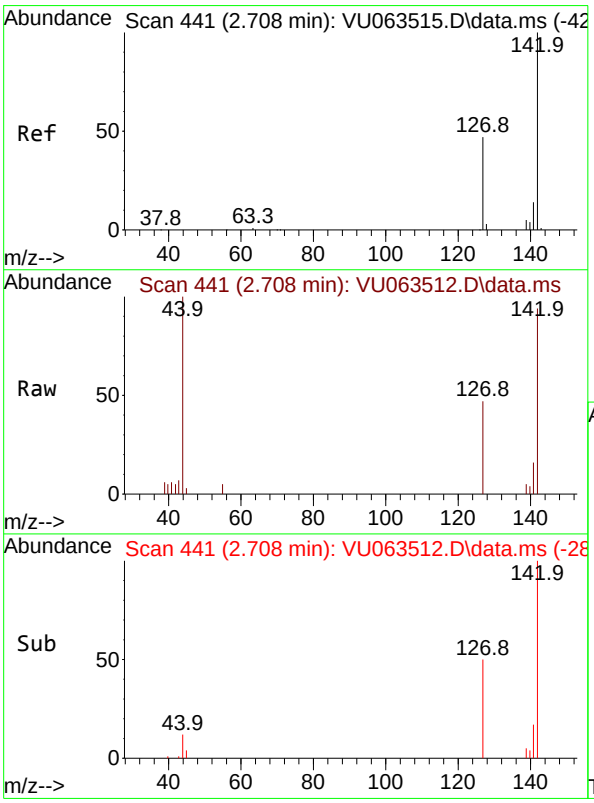
Ion	Ratio	Lower	Upper
96	100		
61	177.4	0.0	504.3
98	64.8	0.0	126.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

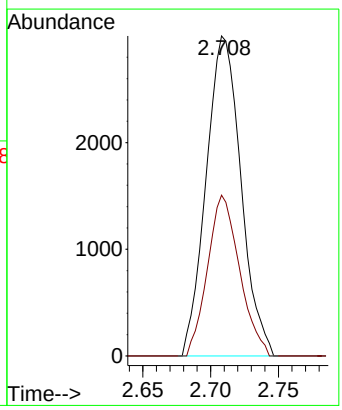
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

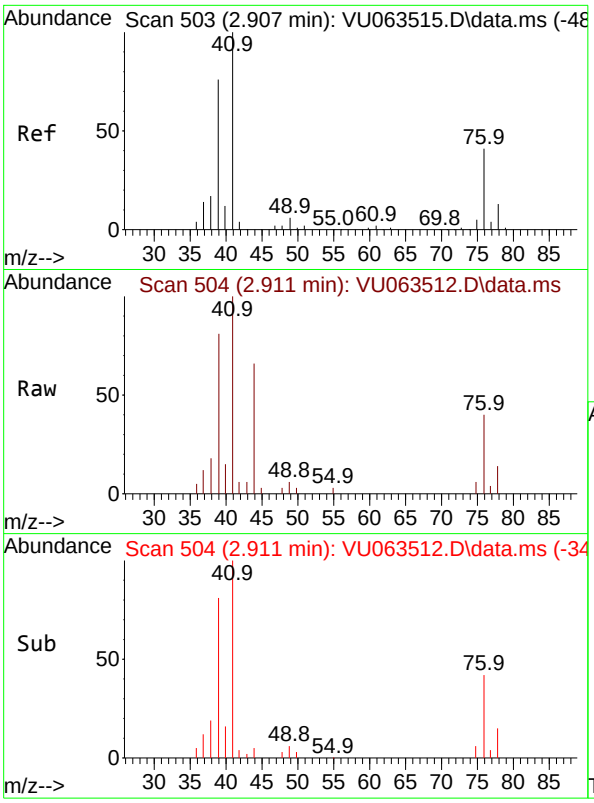


#10
Iodomethane
Concen: 1.474 ug/l
RT: 2.708 min Scan# 441
Delta R.T. -0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:142 Resp: 5353

Ion	Ratio	Lower	Upper
142	100		
127	46.2	37.9	56.9

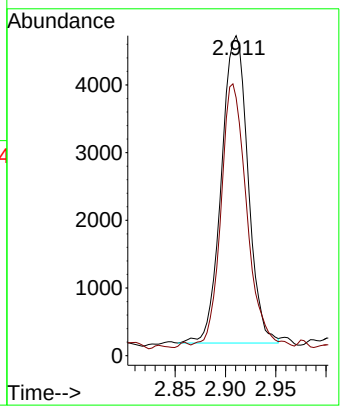




#11
Allyl Chloride
Concen: 0.993 ug/l
RT: 2.911 min Scan# 5
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 41 Resp: 836

Ion	Ratio	Lower	Upper
41	100		
39	82.2	61.5	92.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

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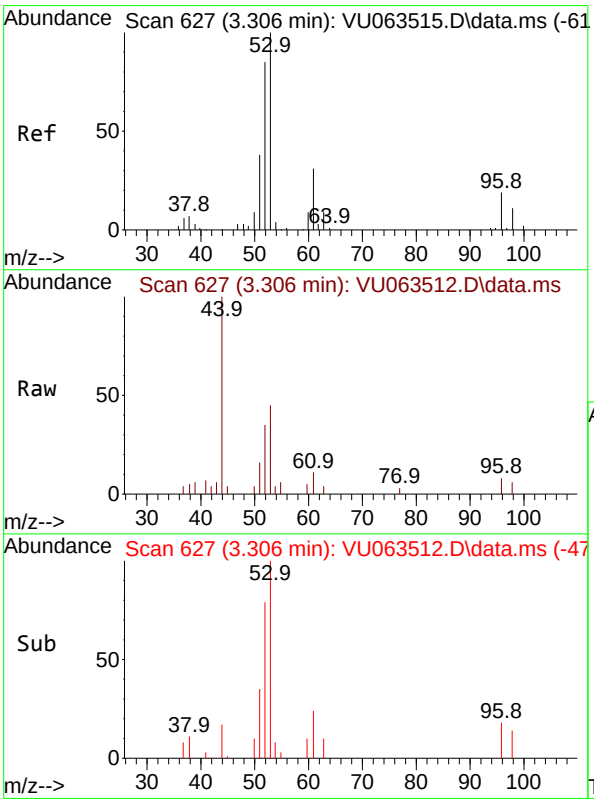
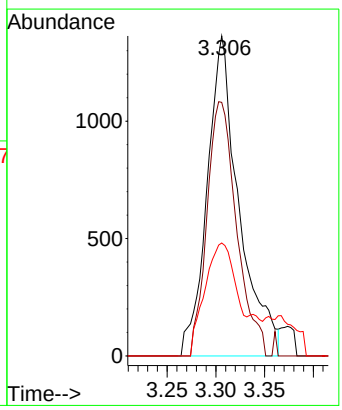
Supervised By :Semsettin Yesilyurt 07/17/2025

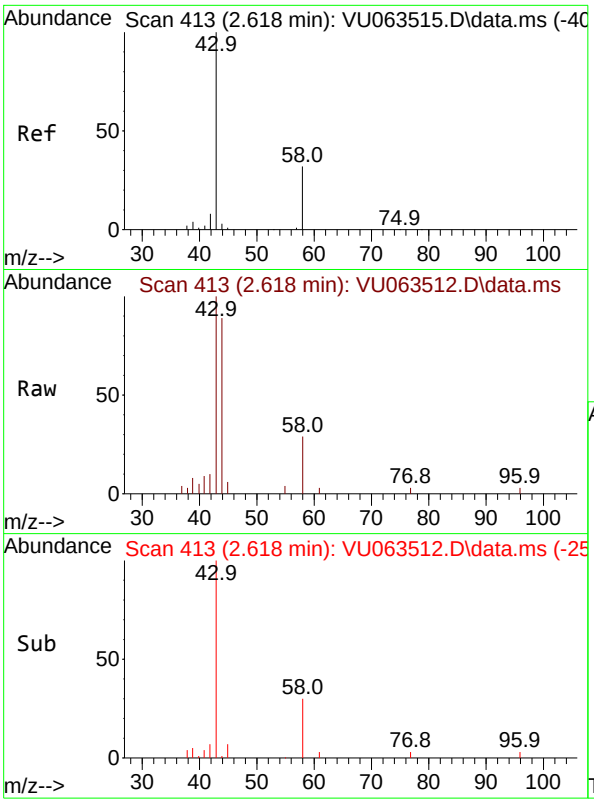


#12
Acrylonitrile
Concen: 2.130 ug/l
RT: 3.306 min Scan# 627
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 53 Resp: 3107

Ion	Ratio	Lower	Upper
53	100		
52	73.7	64.3	96.5
51	35.1	27.8	41.8





#13
Acetone
Concen: 4.673 ug/l
RT: 2.618 min Scan# 41
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 43 Resp: 545

Ion	Ratio	Lower	Upper
43	100		
58	31.3	25.4	38.0

Instrument :
MSVOA_U
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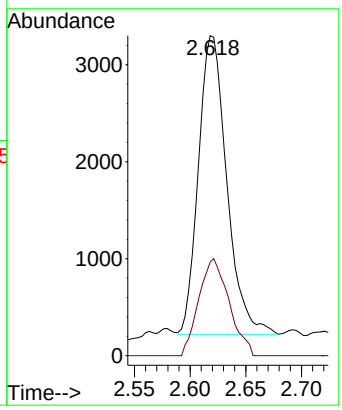
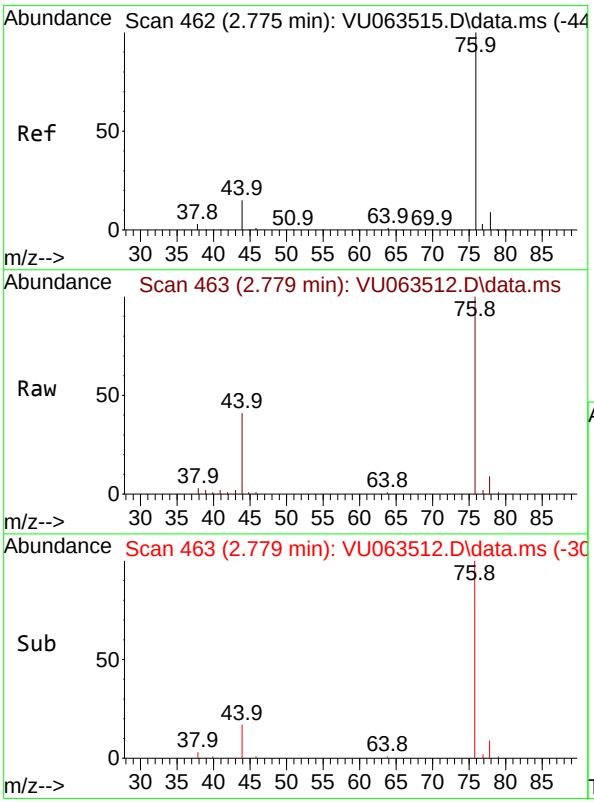
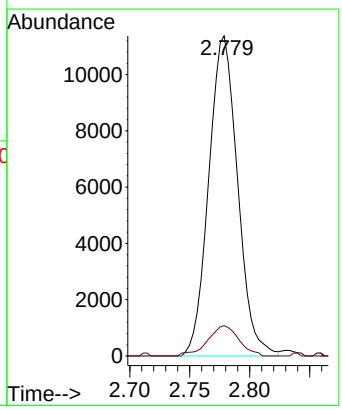


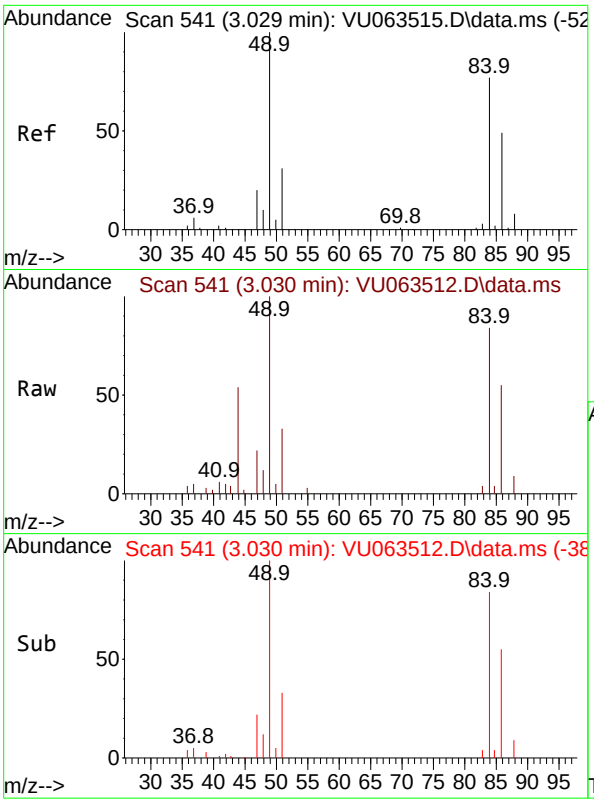


#14
Carbon Disulfide
Concen: 1.011 ug/l
RT: 2.779 min Scan# 463
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 76 Resp: 19044

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.0	10.6

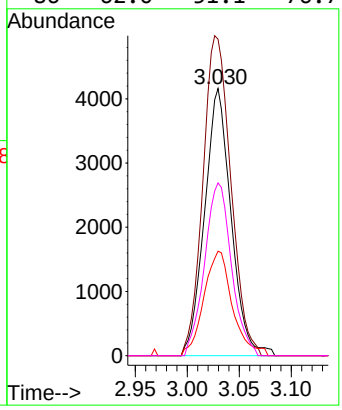




#15
Methylene Chloride
Concen: 1.073 ug/l
RT: 3.030 min Scan# 54
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 84 Resp: 736

Ion	Ratio	Lower	Upper
84	100		
49	113.7	103.8	155.8
51	37.5	0.0	80.4
86	62.0	51.1	76.7



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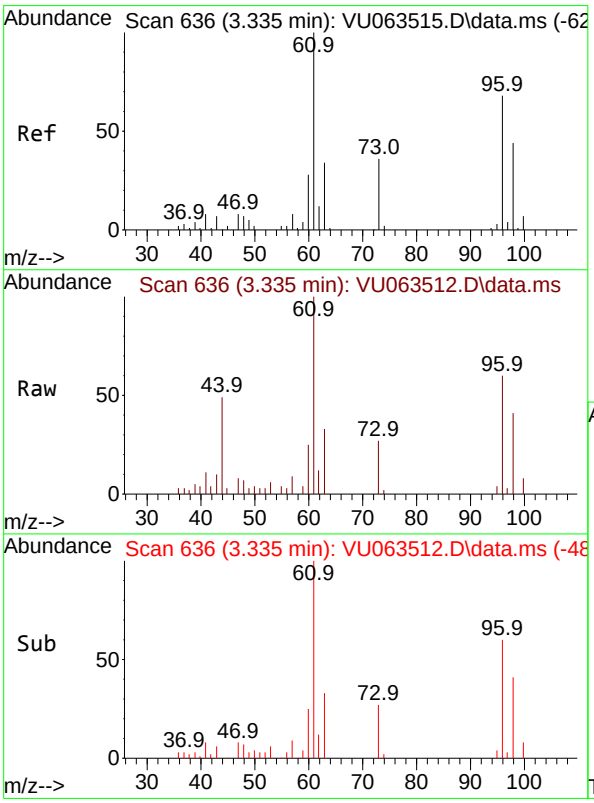
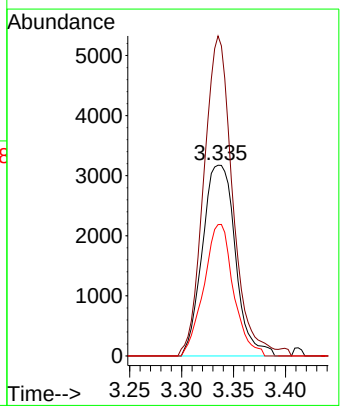
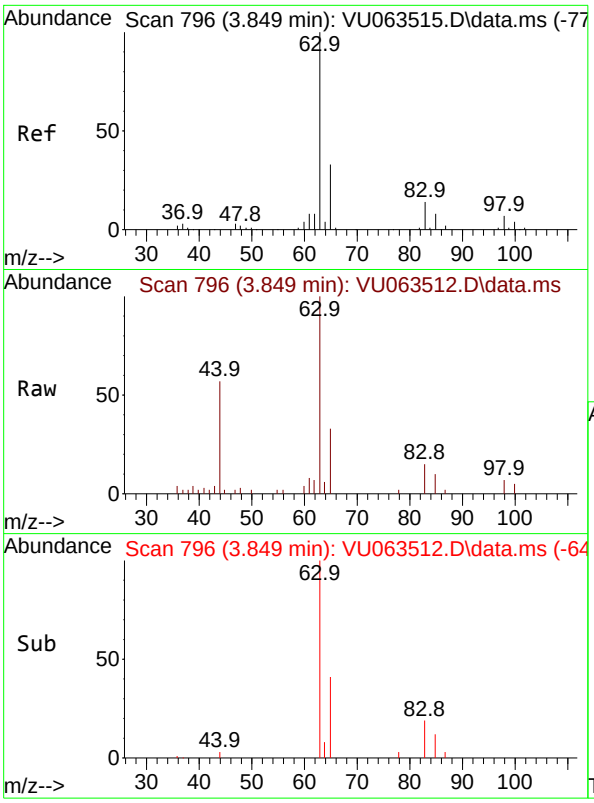


#16
trans-1,2-Dichloroethene
Concen: 1.056 ug/l
RT: 3.335 min Scan# 636
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 96 Resp: 6995

Ion	Ratio	Lower	Upper
96	100		
61	167.9	117.2	175.8
98	68.9	51.4	77.2

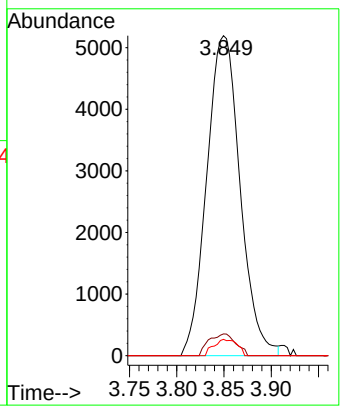




#17
1,1-Dichloroethane
Concen: 1.041 ug/l
RT: 3.849 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 63 Resp: 1277

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	5.1	2.1	6.2



Instrument :
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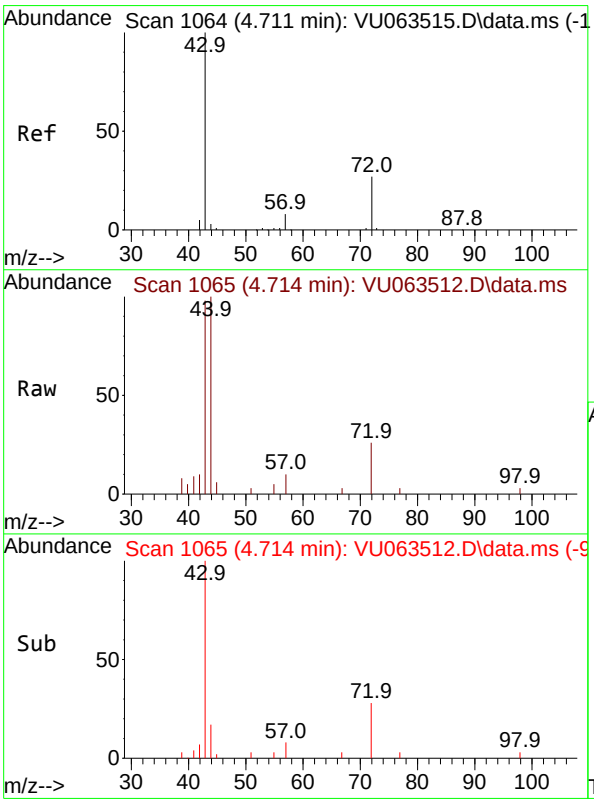
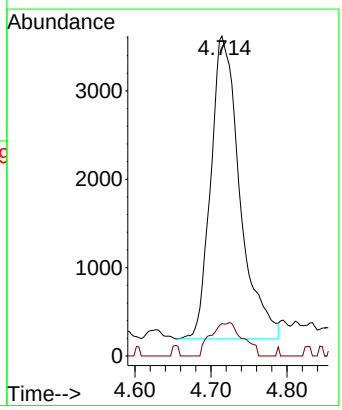
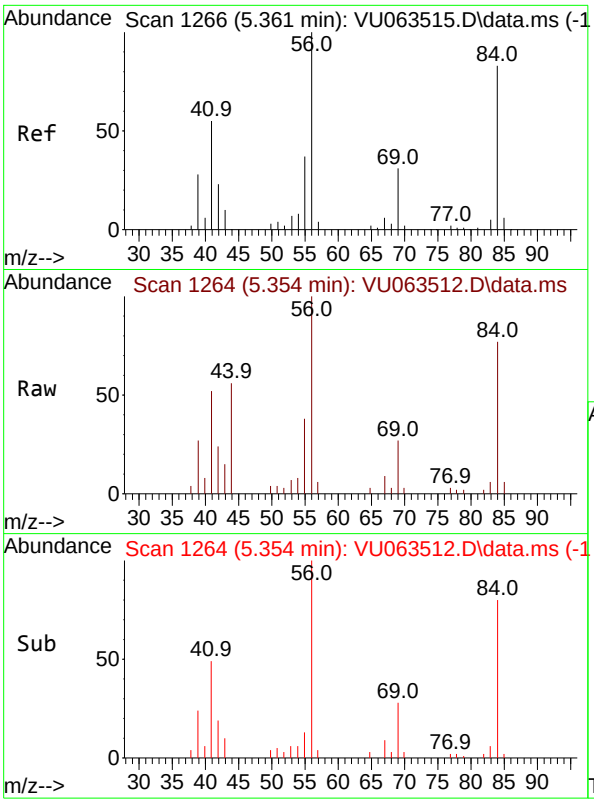


#18
2-Butanone
Concen: 5.031 ug/l
RT: 4.714 min Scan# 1065
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 43 Resp: 9101

Ion	Ratio	Lower	Upper
43	100		
57	7.7	0.0	16.4

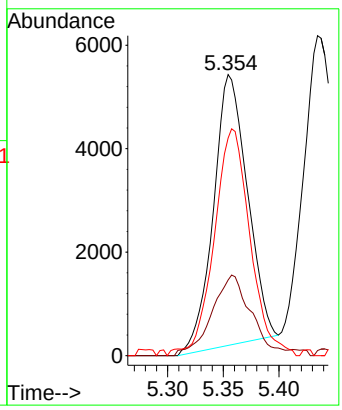




#19
Cyclohexane
Concen: 1.069 ug/l
RT: 5.354 min Scan# 1
Delta R.T. -0.006 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 56 Resp: 1111

Ion	Ratio	Lower	Upper
56	100		
69	31.3	26.6	39.8
84	88.5	71.0	106.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

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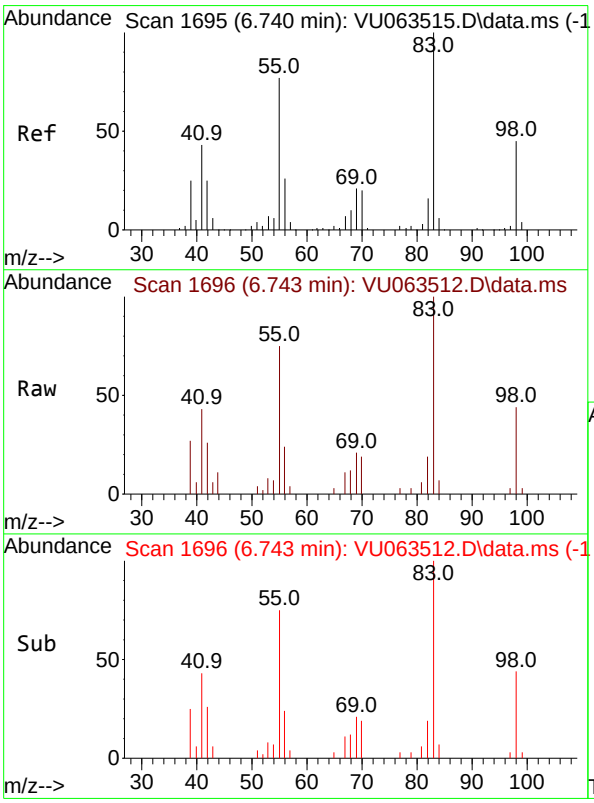
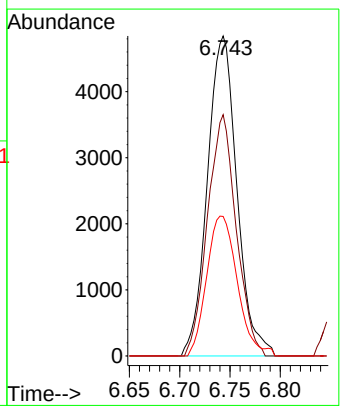
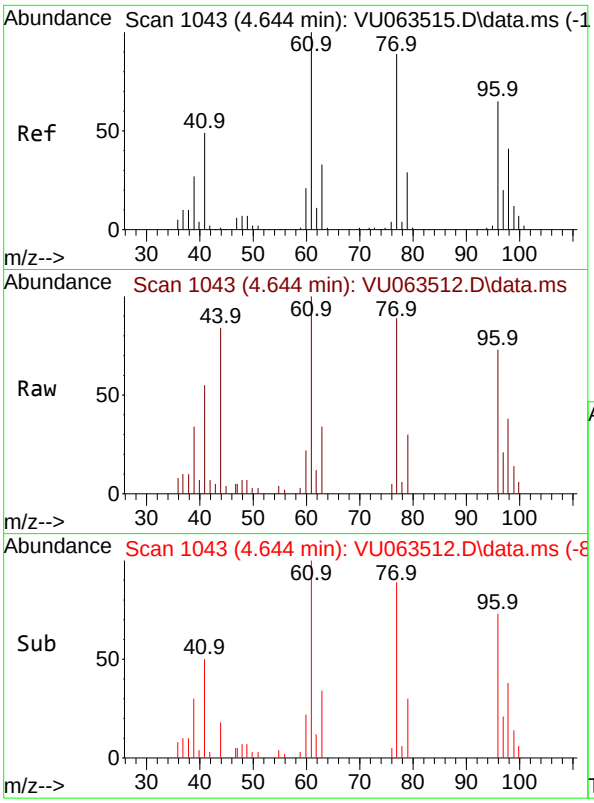


#20
Methylcyclohexane
Concen: 0.979 ug/l
RT: 6.743 min Scan# 1696
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 83 Resp: 9890

Ion	Ratio	Lower	Upper
83	100		
55	73.5	60.6	90.8
98	45.4	35.8	53.8

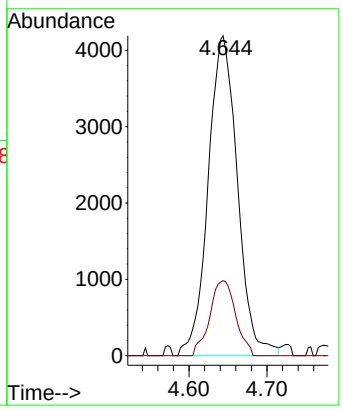




#21
2,2-Dichloropropane
Concen: 1.047 ug/l
RT: 4.644 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 77 Resp: 1093(

Ion	Ratio	Lower	Upper
77	100		
97	20.7	17.8	26.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

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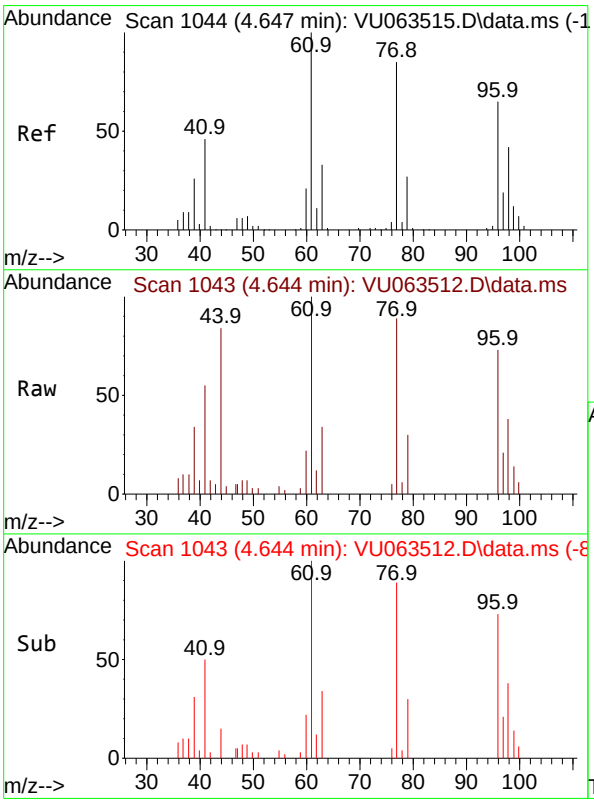
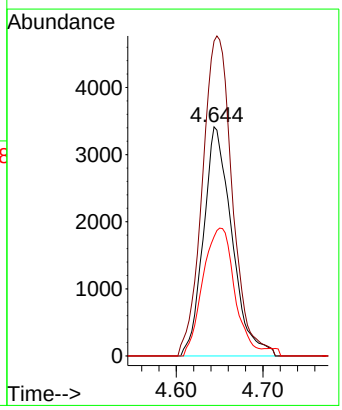
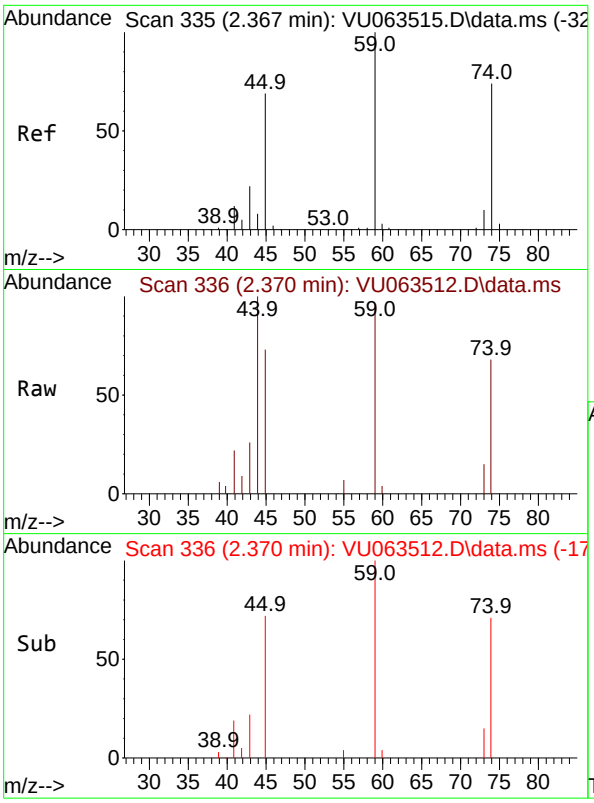


#22
cis-1,2-Dichloroethene
Concen: 1.083 ug/l
RT: 4.644 min Scan# 1043
Delta R.T. -0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 96 Resp: 7782

Ion	Ratio	Lower	Upper
96	100		
61	147.2	0.0	384.7
98	62.3	32.1	96.3

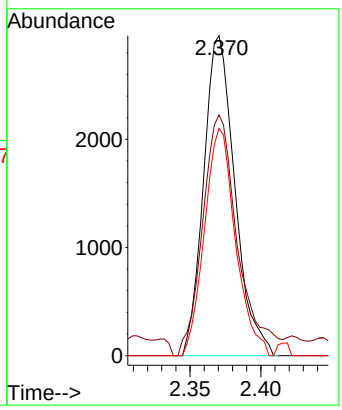




#23
Diethyl Ether
Concen: 1.022 ug/l
RT: 2.370 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 59 Resp: 453

Ion	Ratio	Lower	Upper
59	100		
45	84.9	55.1	82.7
74	70.6	58.2	87.4



Instrument :
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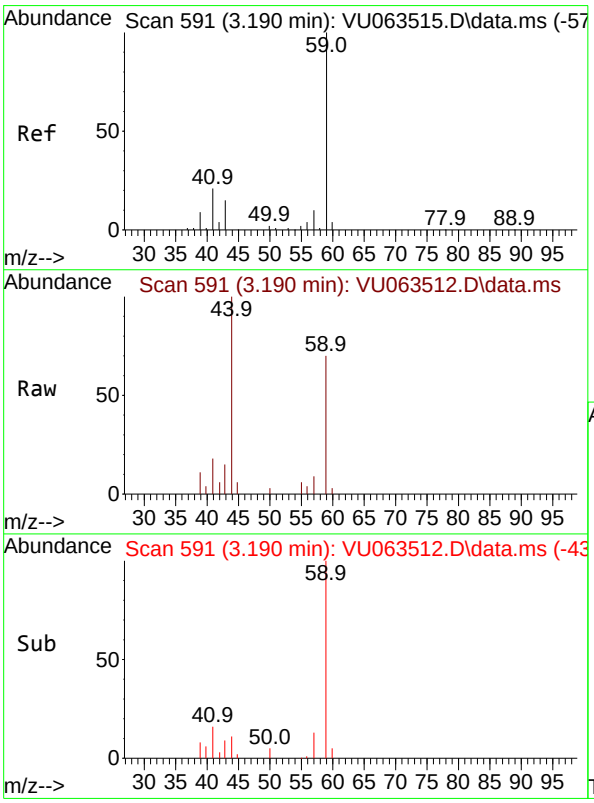
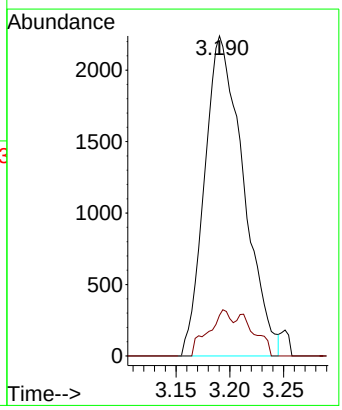
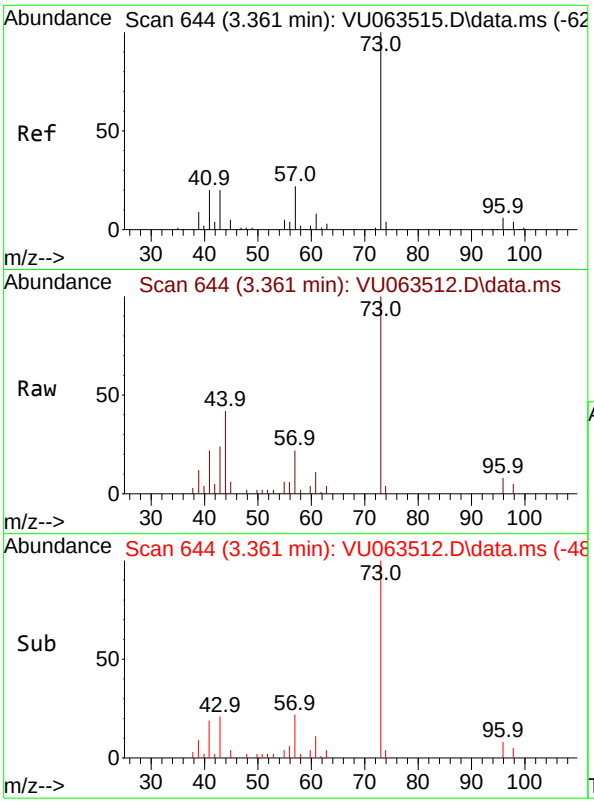


#24
tert-Butyl Alcohol
Concen: 10.471 ug/l
RT: 3.190 min Scan# 591
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 59 Resp: 5615

Ion	Ratio	Lower	Upper
59	100		
57	8.7	8.6	12.8





#25
Methyl tert-Butyl Ether
Concen: 1.033 ug/l
RT: 3.361 min Scan# 64
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 73 Resp: 1572

Ion	Ratio	Lower	Upper
73	100		
43	21.8	16.2	24.2

Instrument :
MSVOA_U
ClientSampleId :
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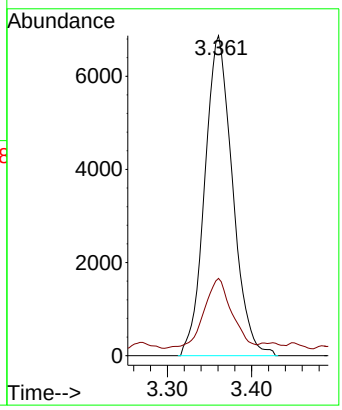
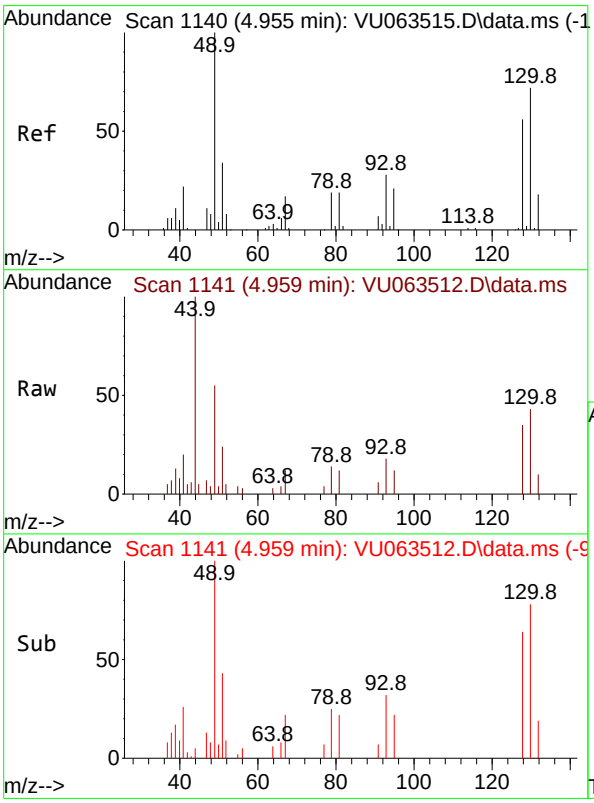
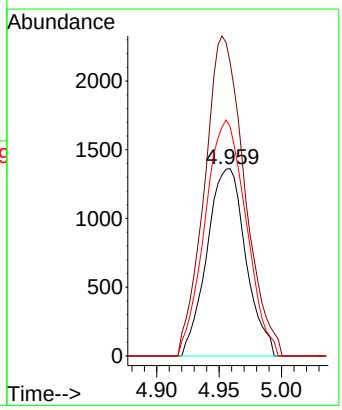


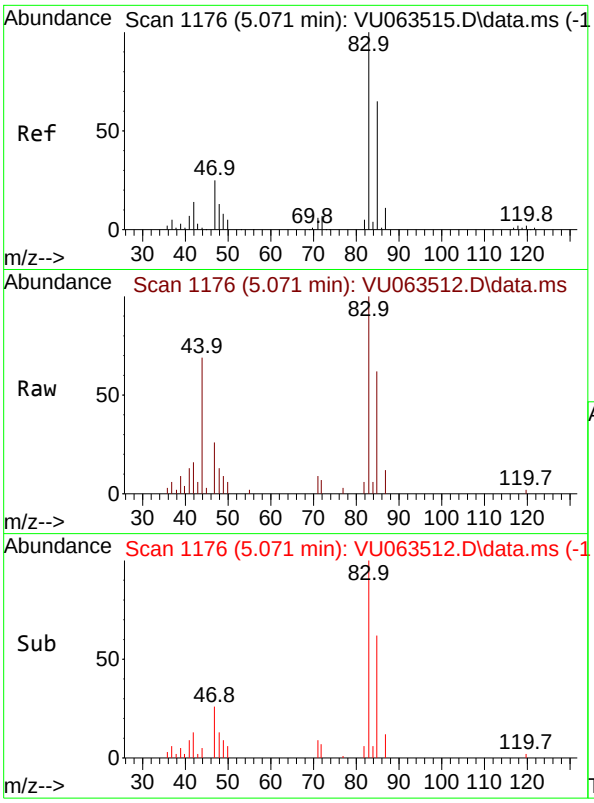


#26
Bromochloromethane
Concen: 0.984 ug/l
RT: 4.959 min Scan# 1141
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:128 Resp: 2951

Ion	Ratio	Lower	Upper
128	100		
49	175.9	0.0	340.8
130	133.8	100.5	150.7

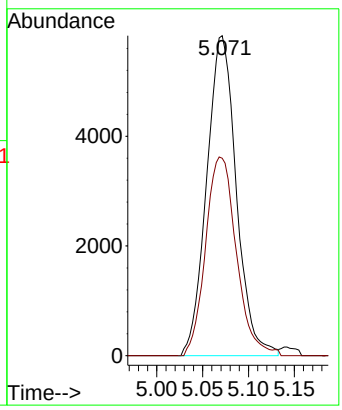




#27
Chloroform
Concen: 1.048 ug/l
RT: 5.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 83 Resp: 1312

Ion	Ratio	Lower	Upper
83	100		
85	61.7	0.0	130.0



Instrument :
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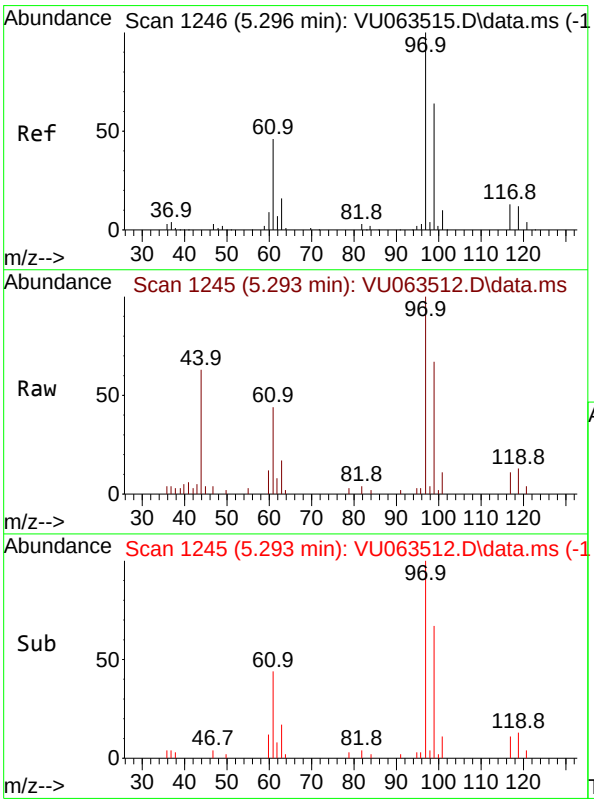
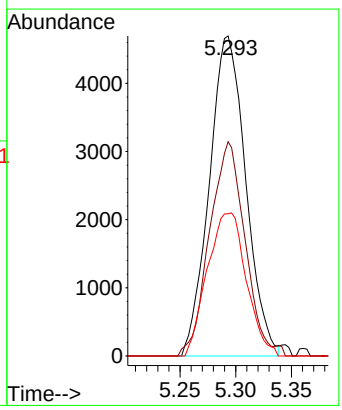
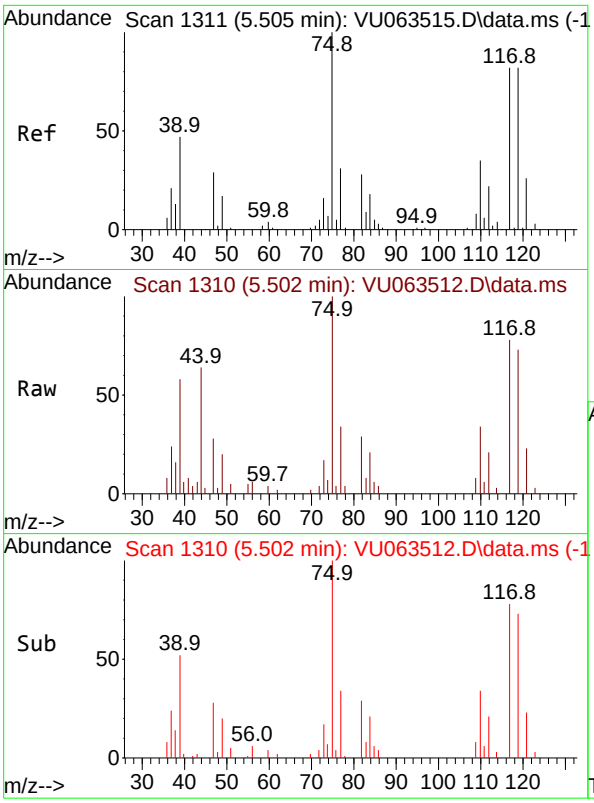


#28
1,1,1-Trichloroethane
Concen: 1.008 ug/l
RT: 5.293 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 97 Resp: 10709

Ion	Ratio	Lower	Upper
97	100		
99	65.0	31.8	95.3
61	47.7	23.3	69.9

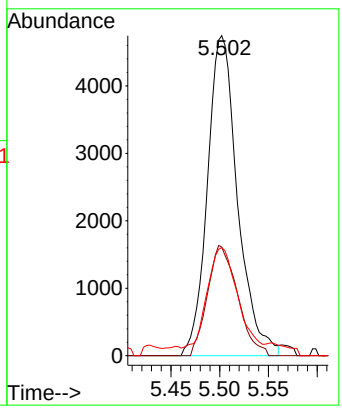




#29
1,1-Dichloropropene
Concen: 1.038 ug/l
RT: 5.502 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 75 Resp: 1022

Ion	Ratio	Lower	Upper
75	100		
110	34.3	17.8	53.4
77	30.5	24.6	37.0



Instrument :
MSVOA_U
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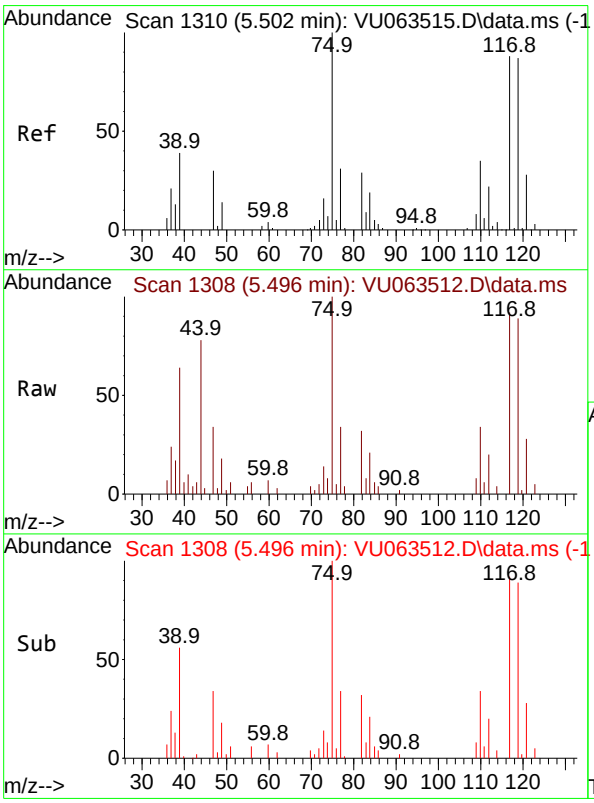
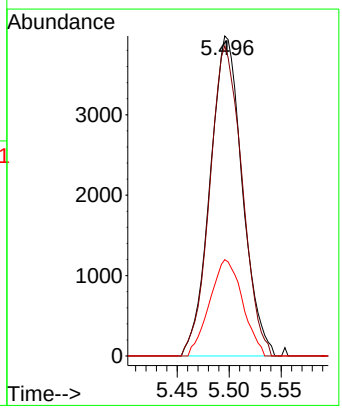
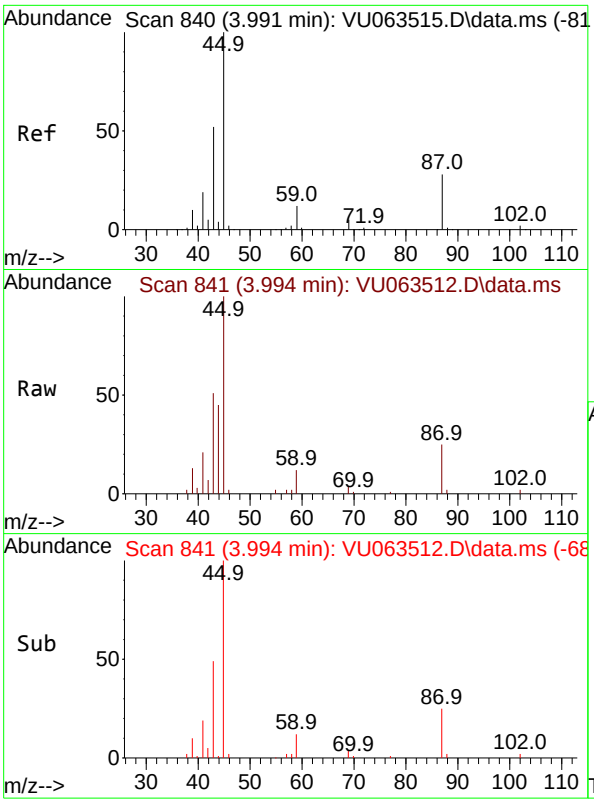


#30
Carbon Tetrachloride
Concen: 1.005 ug/l
RT: 5.496 min Scan# 1308
Delta R.T. -0.006 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:117 Resp: 8599

Ion	Ratio	Lower	Upper
117	100		
119	99.4	79.2	118.8
121	30.1	25.5	38.3

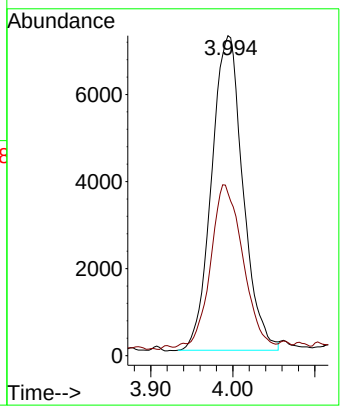




#31
Isopropyl Ether
Concen: 1.037 ug/l
RT: 3.994 min Scan# 84
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 45 Resp: 1920

Ion	Ratio	Lower	Upper
45	100		
43	52.6	25.7	77.0



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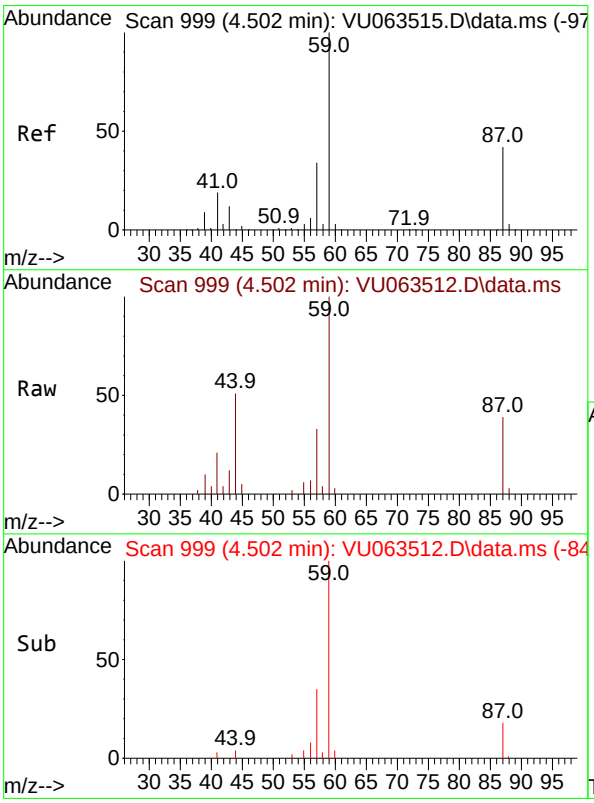
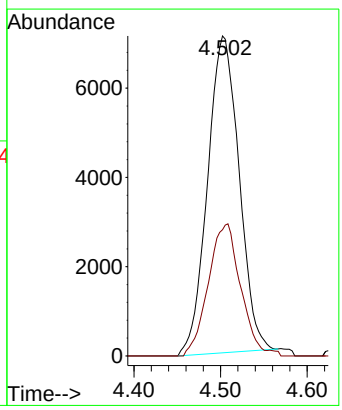
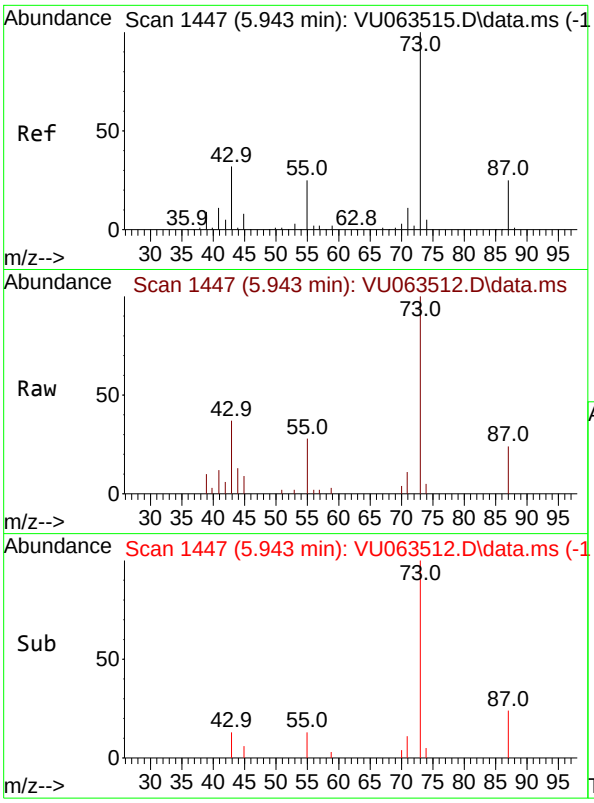


#32
Ethyl-t-butyl ether
Concen: 1.048 ug/l
RT: 4.502 min Scan# 999
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 59 Resp: 17970

Ion	Ratio	Lower	Upper
59	100		
87	42.8	32.6	49.0

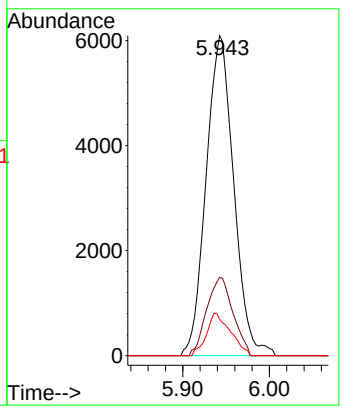




#33
Tert-Amyl methyl ether
Concen: 0.907 ug/l
RT: 5.943 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 73 Resp: 1349

Ion	Ratio	Lower	Upper
73	100		
87	23.3	19.4	29.2
71	11.5	8.9	13.3



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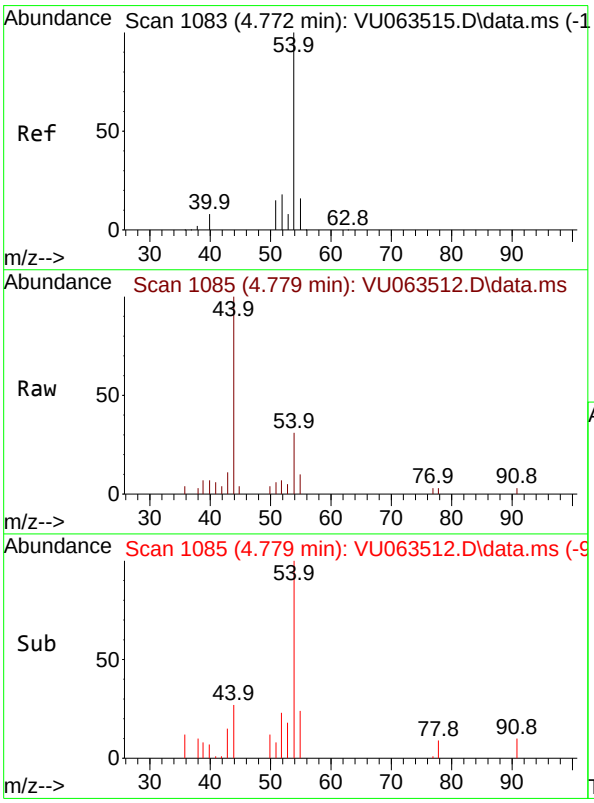
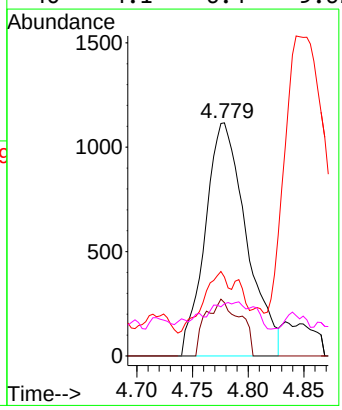
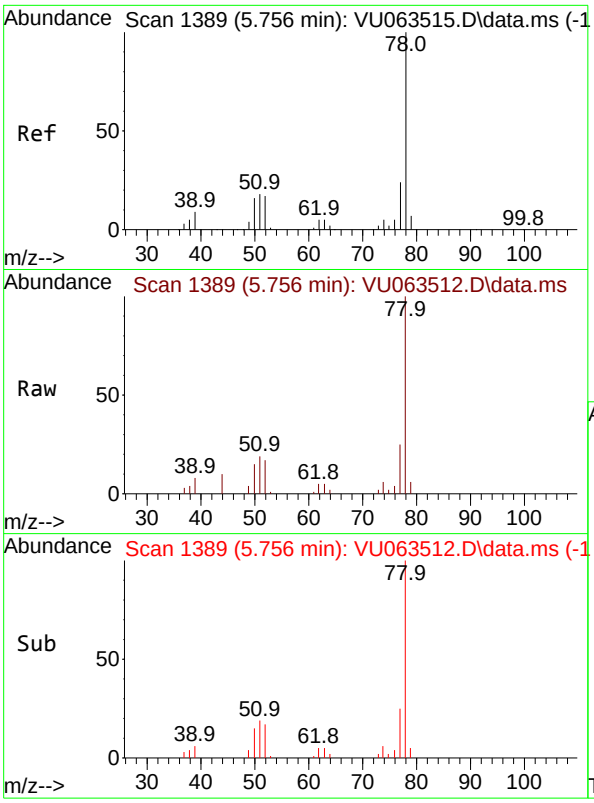


#34
Propionitrile
Concen: 5.214 ug/l
RT: 4.779 min Scan# 1085
Delta R.T. 0.006 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 54 Resp: 2874

Ion	Ratio	Lower	Upper
54	100		
52	20.1	17.0	25.4
55	16.6	13.6	20.4
40	4.1	6.4	9.6#

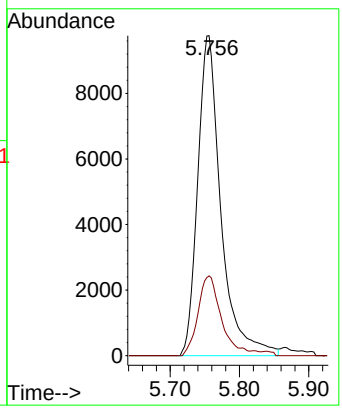




#35
Benzene
Concen: 0.858 ug/l
RT: 5.756 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 78 Resp: 2269

Ion	Ratio	Lower	Upper
78	100		
77	25.0	19.4	29.2



Instrument :
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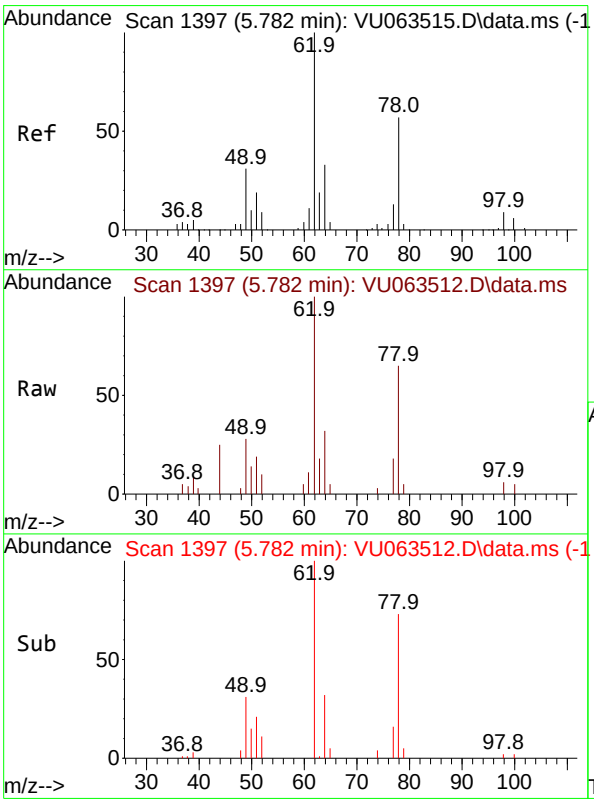
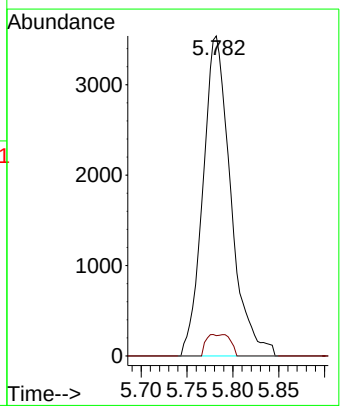
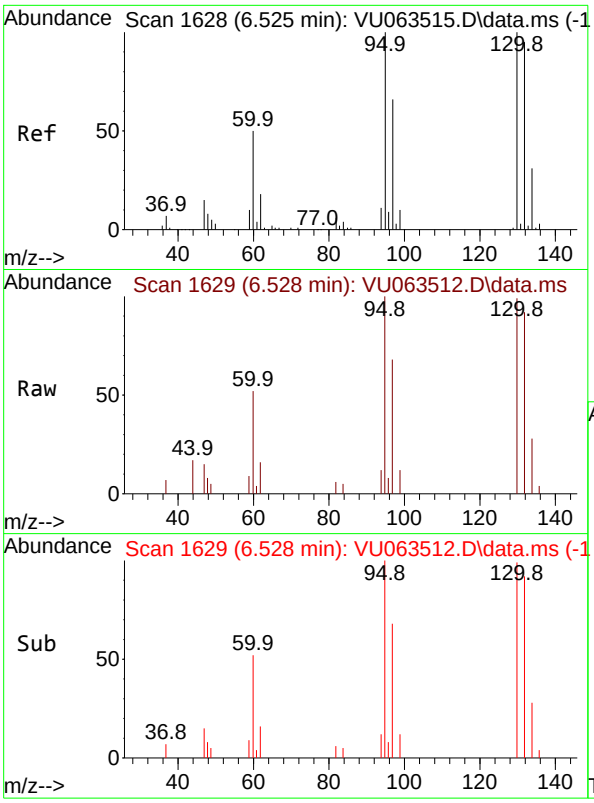


#36
1,2-Dichloroethane
Concen: 0.906 ug/l
RT: 5.782 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 62 Resp: 7451

Ion	Ratio	Lower	Upper
62	100		
98	2.7	6.4	9.6#

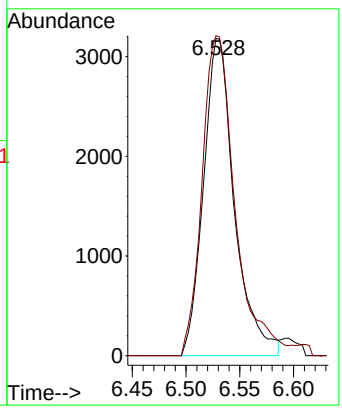




#37
Trichloroethene
Concen: 0.940 ug/l
RT: 6.528 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:130 Resp: 634

Ion	Ratio	Lower	Upper
130	100		
95	100.9	80.3	120.5



Instrument :
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ClientSampleId :
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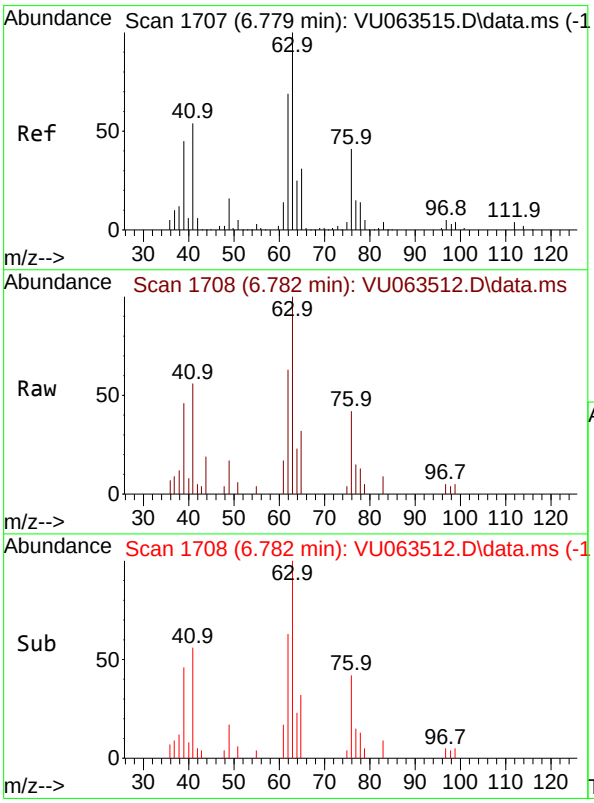
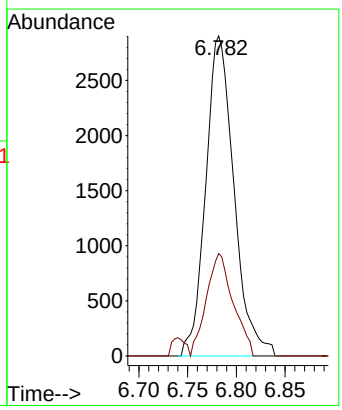
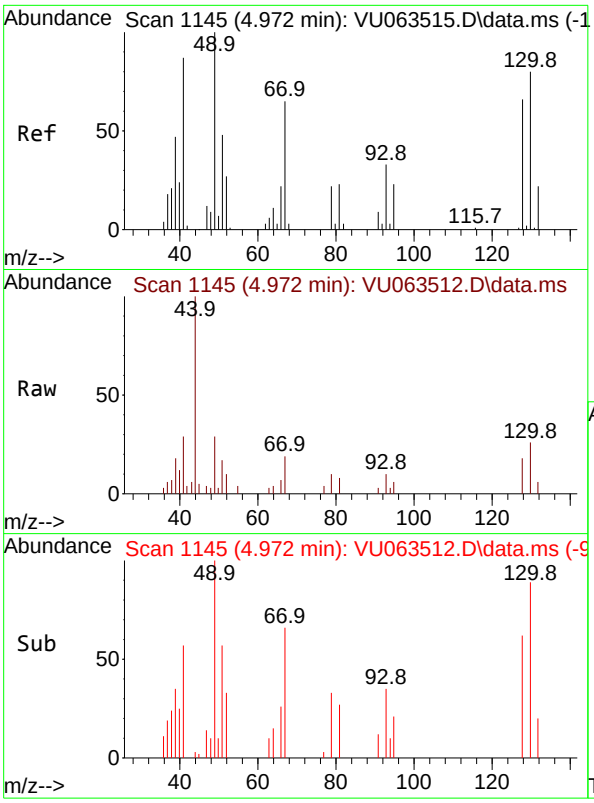


#38
1,2-Dichloropropane
Concen: 0.947 ug/l
RT: 6.782 min Scan# 1708
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 63 Resp: 5862

Ion	Ratio	Lower	Upper
63	100		
65	32.0	24.6	36.8

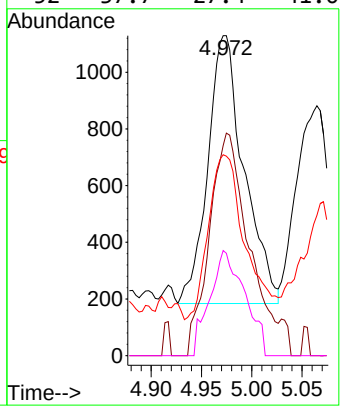




#39
Methacrylonitrile
Concen: 0.979 ug/l
RT: 4.972 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 41 Resp: 236

Ion	Ratio	Lower	Upper
41	100		
67	89.7	62.7	94.1
39	62.1	43.1	64.7
52	37.7	27.4	41.0



Instrument :
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ClientSampleId :
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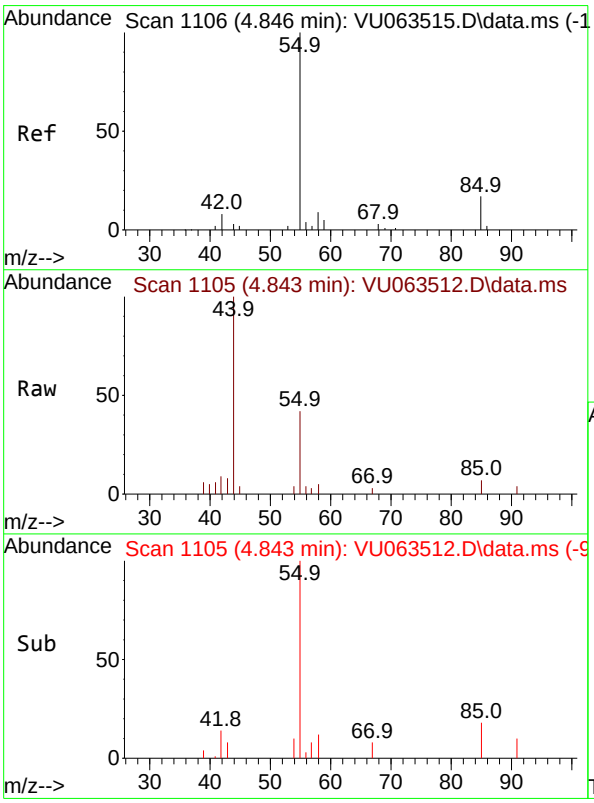
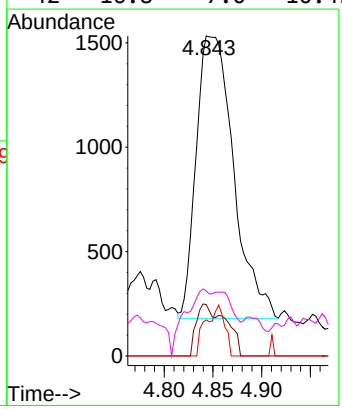
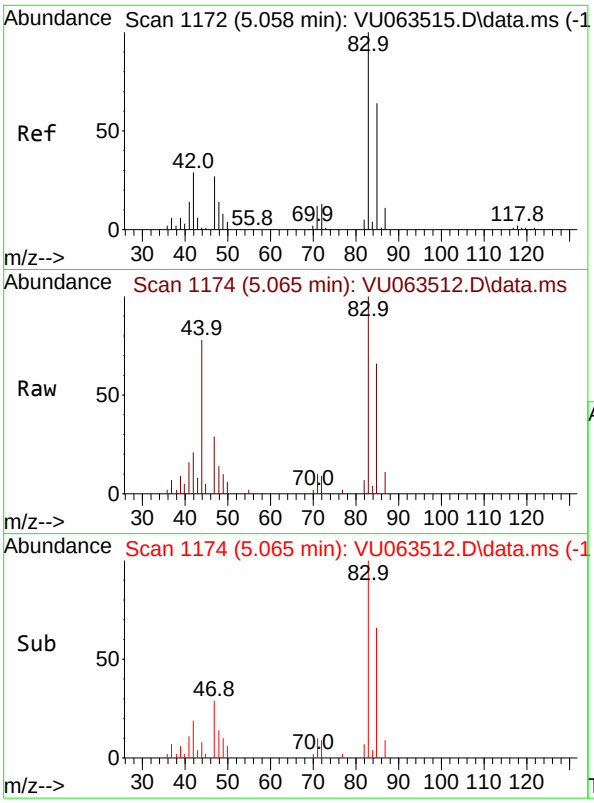


#40
Methyl acrylate
Concen: 1.008 ug/l
RT: 4.843 min Scan# 1105
Delta R.T. -0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 55 Resp: 3610

Ion	Ratio	Lower	Upper
55	100		
85	8.5	12.8	19.2#
58	9.1	7.0	10.4
42	16.8	7.0	10.4#





#41
Tetrahydrofuran
Concen: 1.887 ug/l
RT: 5.065 min Scan# 1
Delta R.T. 0.006 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 42 Resp: 243

Ion	Ratio	Lower	Upper
42	100		
72	45.0	39.2	58.8
71	49.1	34.8	52.2

Instrument :
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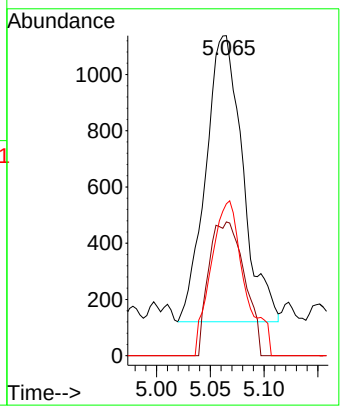
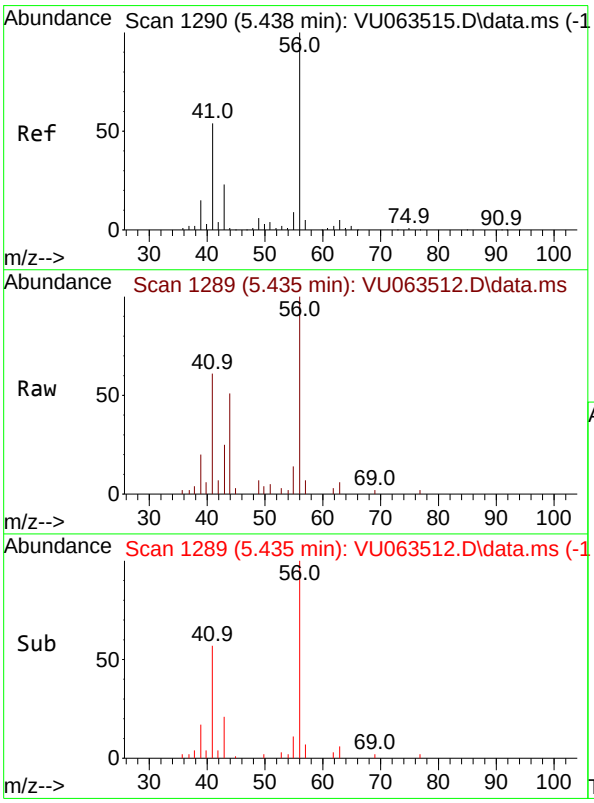
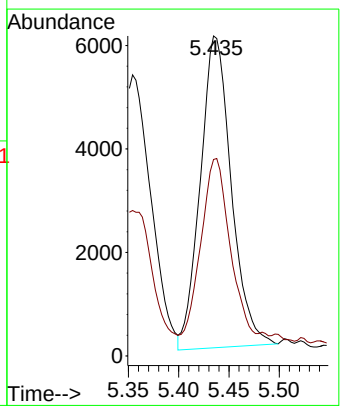


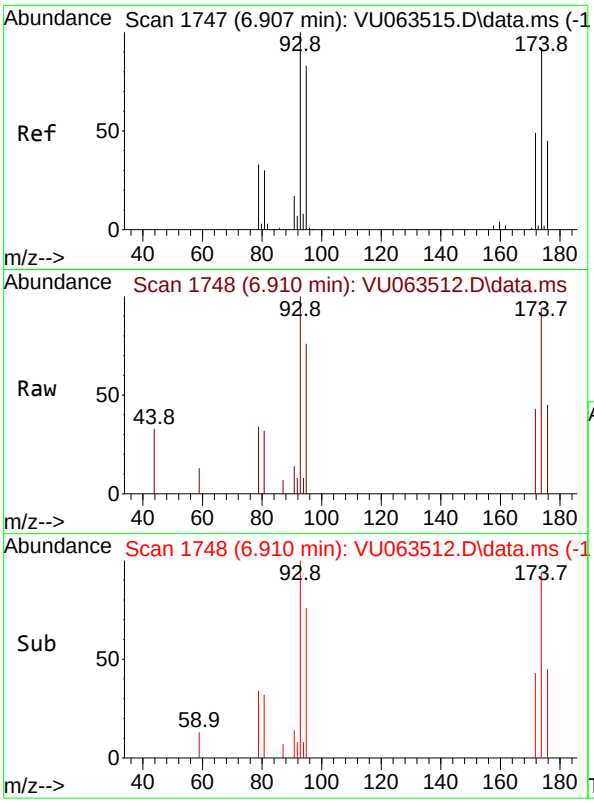


#42
1-Chlorobutane
Concen: 0.987 ug/l
RT: 5.435 min Scan# 1289
Delta R.T. -0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 56 Resp: 12913

Ion	Ratio	Lower	Upper
56	100		
41	52.5	26.7	80.0

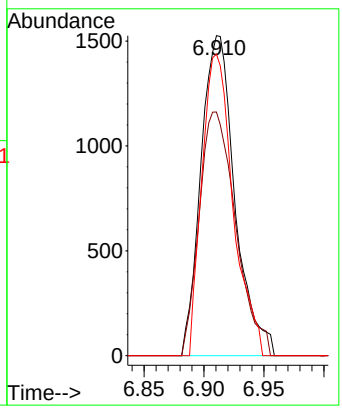




#43
Dibromomethane
Concen: 0.939 ug/l
RT: 6.910 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 93 Resp: 301

Ion	Ratio	Lower	Upper
93	100		
95	81.8	67.9	101.9
174	86.0	74.6	111.8



Instrument :
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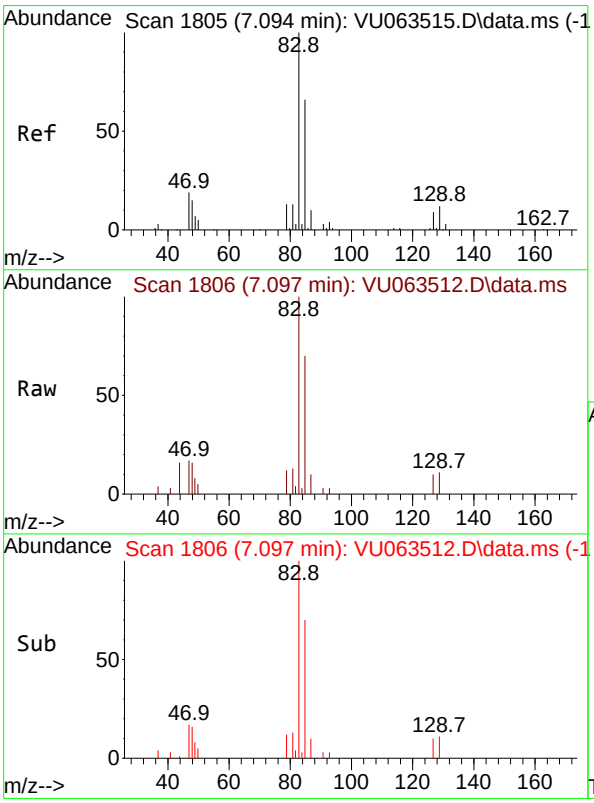
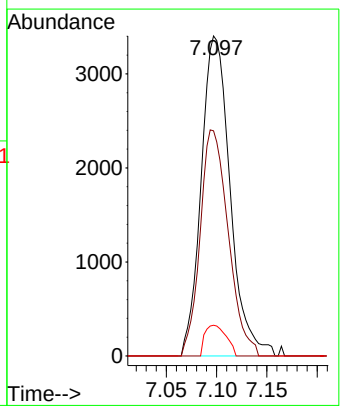
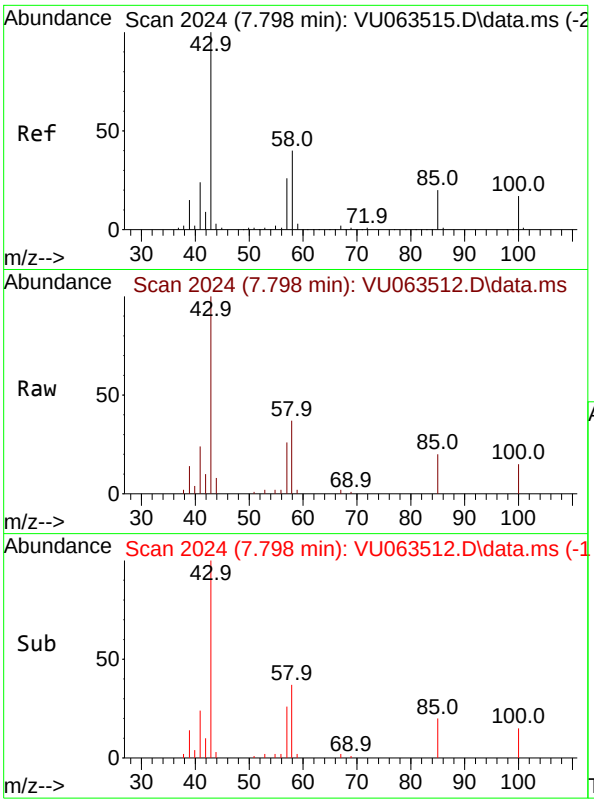


#44
Bromodichloromethane
Concen: 0.943 ug/l
RT: 7.097 min Scan# 1806
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 83 Resp: 6824

Ion	Ratio	Lower	Upper
83	100		
85	70.4	52.7	79.1
127	9.6	8.1	12.1

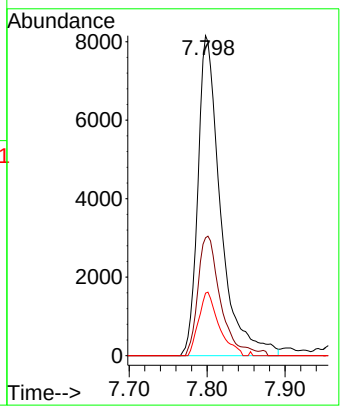




#45
4-Methyl-2-Pentanone
Concen: 4.985 ug/l
RT: 7.798 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 43 Resp: 1647

Ion	Ratio	Lower	Upper
43	100		
58	37.0	20.0	60.0
85	17.8	15.4	23.0



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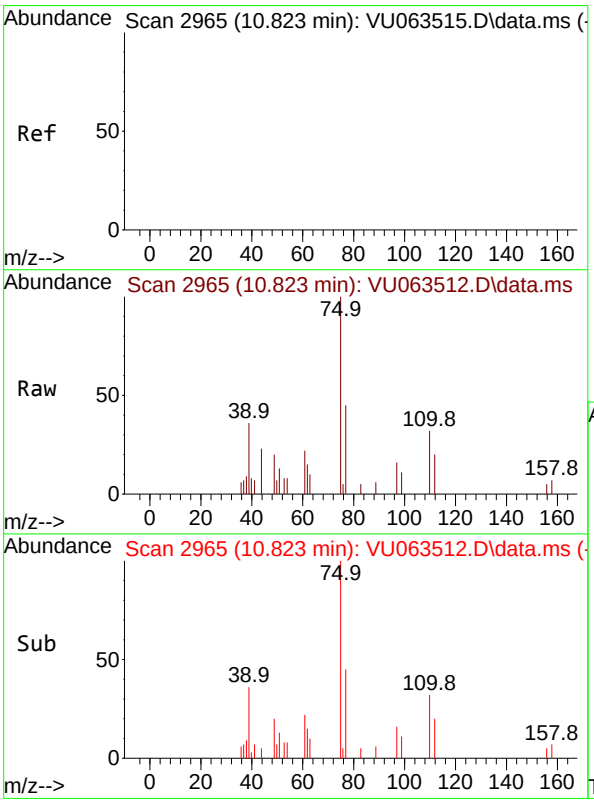
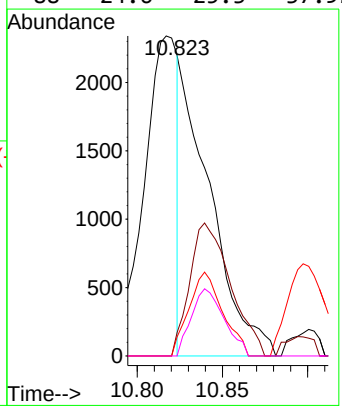
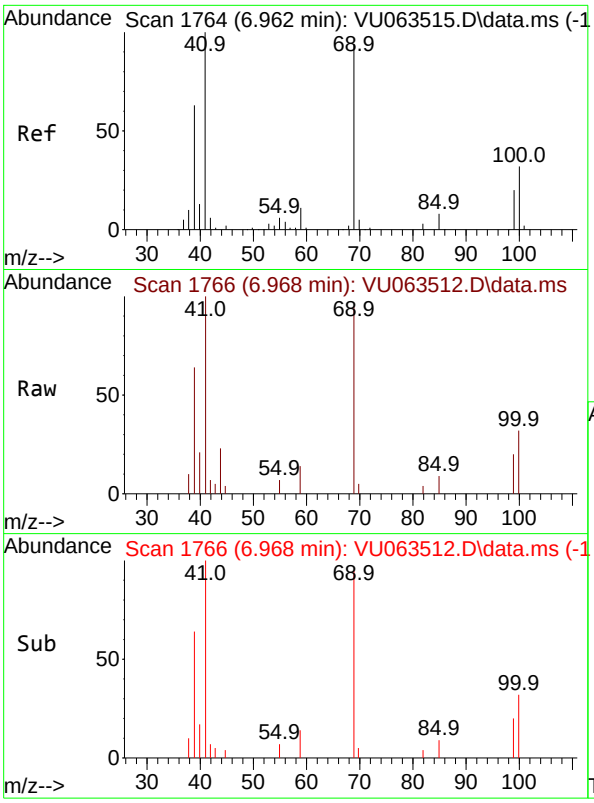


#46
t-1,4-Dichloro-2-butene
Concen: 2.286 ug/l m
RT: 10.823 min Scan# 2965
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 75 Resp: 2681

Ion	Ratio	Lower	Upper
75	100		
53	60.3	48.4	72.6
89	31.6	30.6	45.8
88	24.6	25.3	37.9#

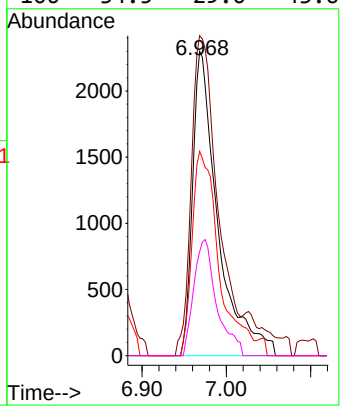




#47
Methyl methacrylate
Concen: 1.779 ug/l
RT: 6.968 min Scan# 1
Delta R.T. 0.006 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 69 Resp: 479

Ion	Ratio	Lower	Upper
69	100		
41	108.3	0.0	224.0
39	71.4	55.3	82.9
100	34.5	29.0	43.6



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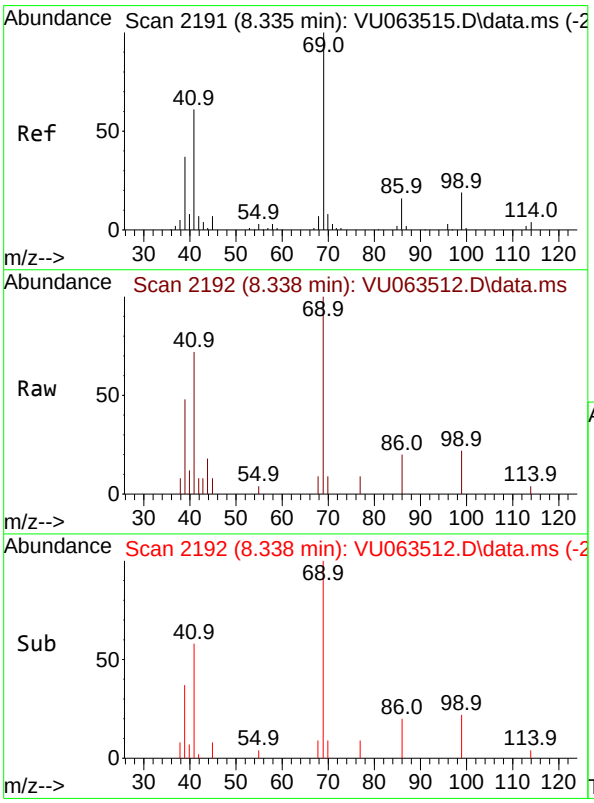
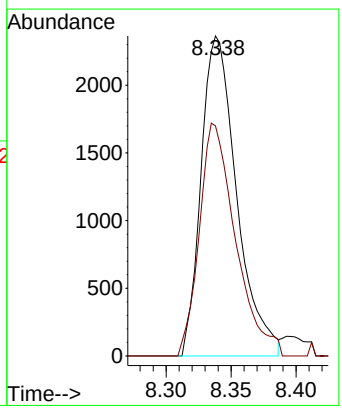
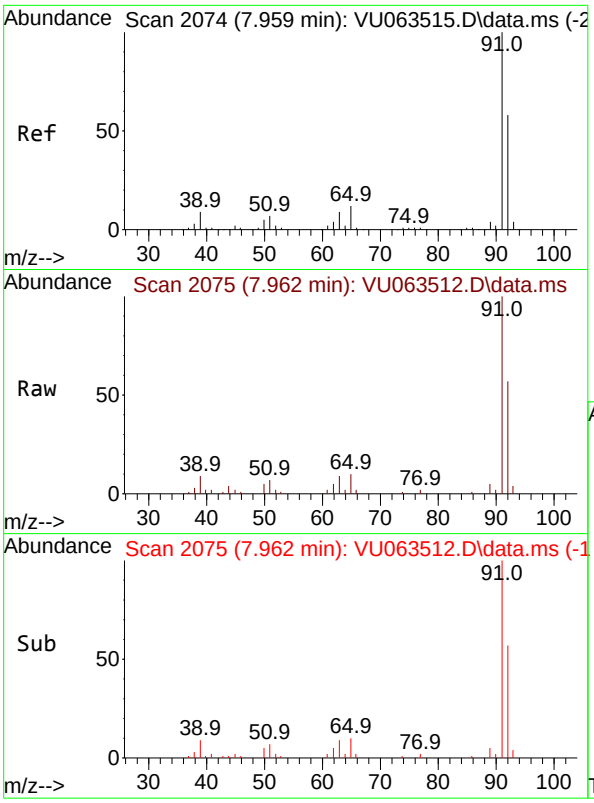


#48
Ethyl methacrylate
Concen: 0.875 ug/l
RT: 8.338 min Scan# 2192
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 69 Resp: 4500

Ion	Ratio	Lower	Upper
69	100		
41	73.9	30.8	92.4





#49
Toluene
Concen: 1.010 ug/l
RT: 7.962 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 92 Resp: 1459

Ion	Ratio	Lower	Upper
92	100		
91	175.8	140.4	210.6

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

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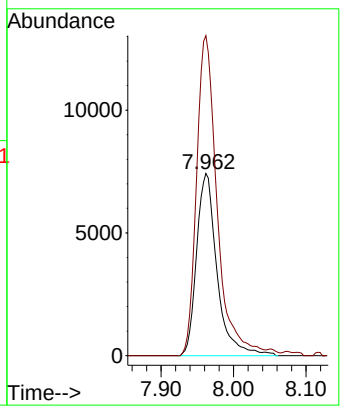
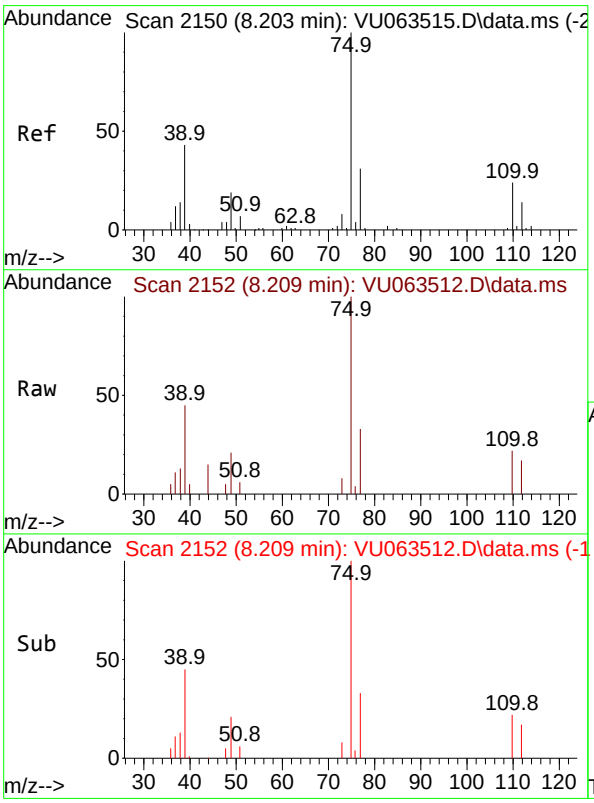
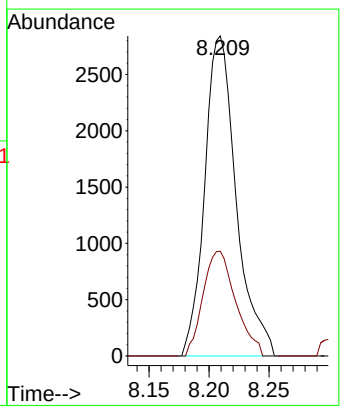


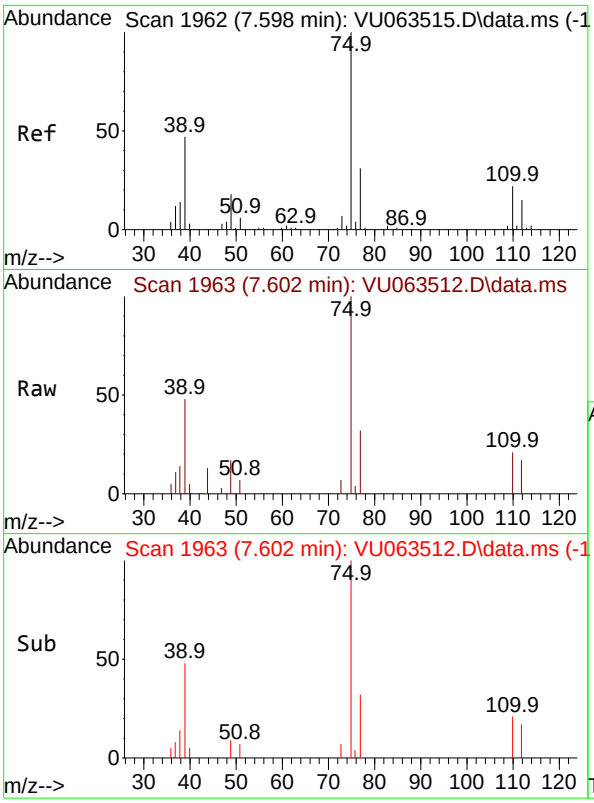


#50
t-1,3-Dichloropropene
Concen: 0.915 ug/l
RT: 8.209 min Scan# 2152
Delta R.T. 0.006 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 75 Resp: 5194

Ion	Ratio	Lower	Upper
75	100		
77	32.8	24.9	37.3

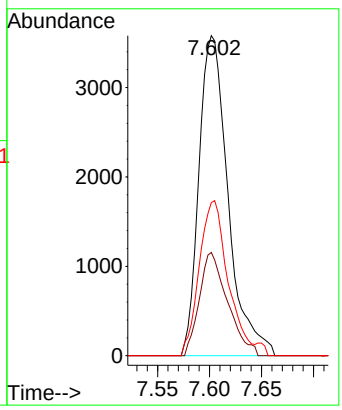




#51
cis-1,3-Dichloropropene
Concen: 0.918 ug/l
RT: 7.602 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 75 Resp: 698

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.1	37.7
39	47.8	37.8	56.6



Instrument :
MSVOA_U
ClientSampleId :
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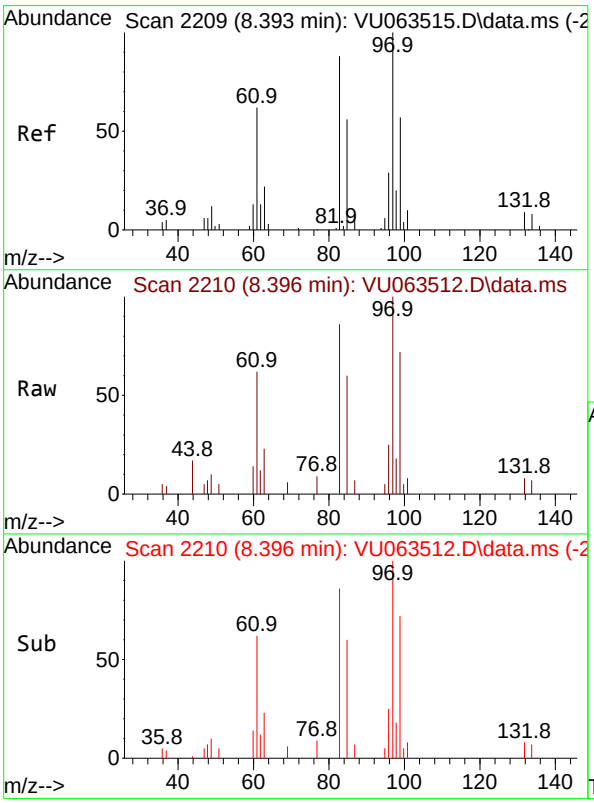
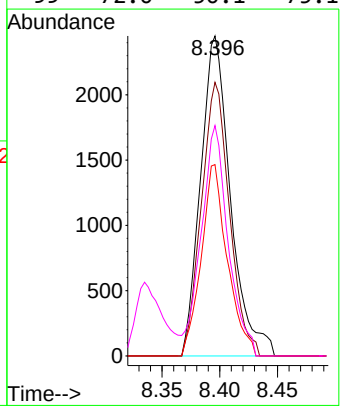
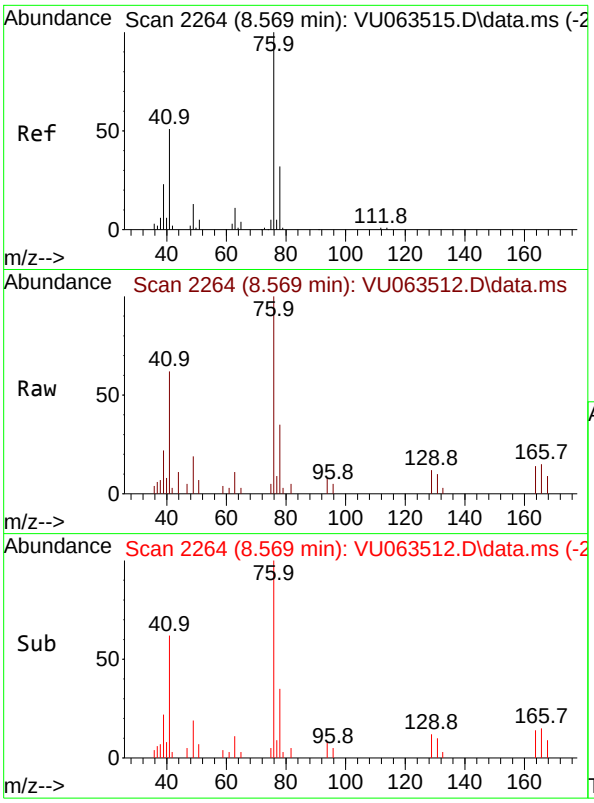


#52
1,1,2-Trichloroethane
Concen: 1.022 ug/l
RT: 8.396 min Scan# 2210
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 97 Resp: 4414

Ion	Ratio	Lower	Upper
97	100		
83	85.5	70.2	105.2
85	59.8	45.2	67.8
99	72.0	50.1	75.1

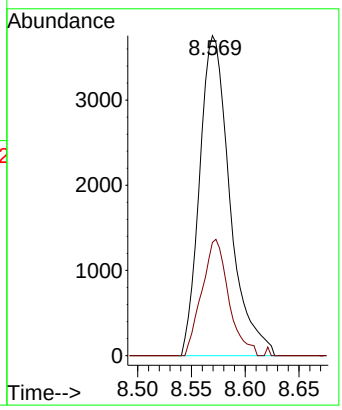




#53
1,3-Dichloropropane
Concen: 0.985 ug/l
RT: 8.569 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 76 Resp: 733

Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.0	39.0



Instrument :
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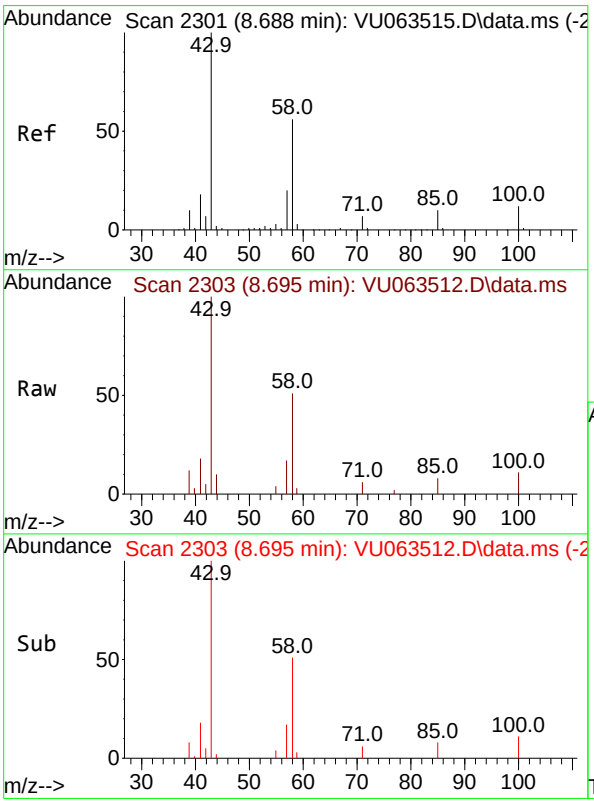
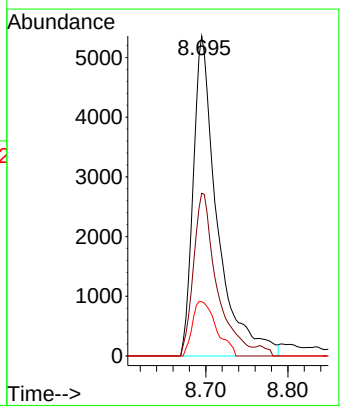
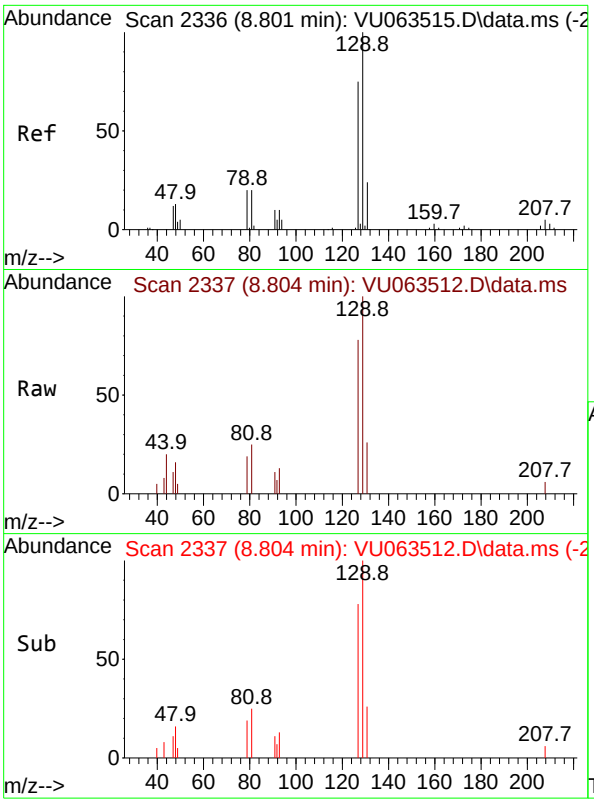


#54
2-Hexanone
Concen: 4.940 ug/l
RT: 8.695 min Scan# 2303
Delta R.T. 0.006 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 43 Resp: 10847

Ion	Ratio	Lower	Upper
43	100		
58	49.3	34.8	74.8
57	17.1	0.0	39.5

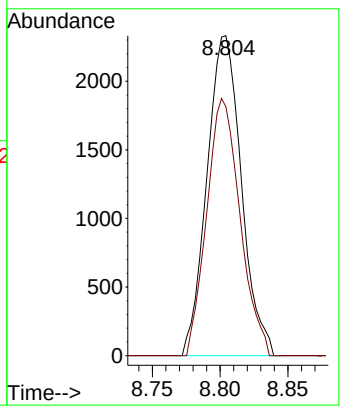




#55
Dibromochloromethane
Concen: 0.903 ug/l
RT: 8.804 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:129 Resp: 412

Ion	Ratio	Lower	Upper
129	100		
127	77.6	60.1	90.1



Instrument :
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ClientSampleId :
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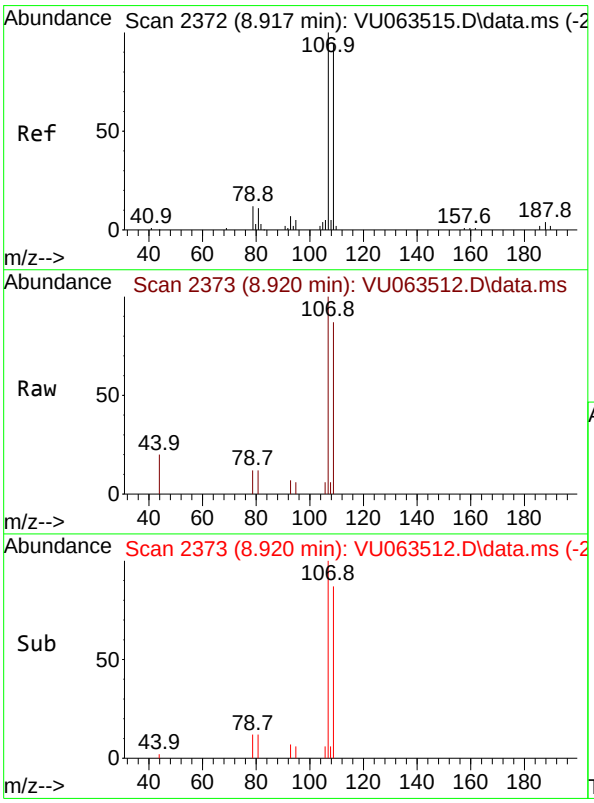
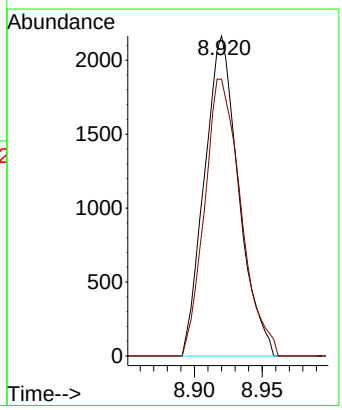
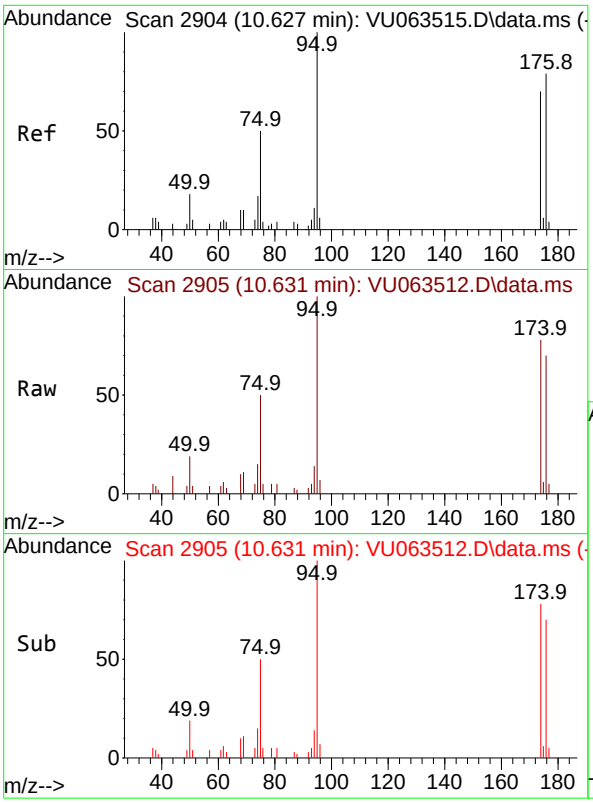


#56
1,2-Dibromoethane
Concen: 0.980 ug/l
RT: 8.920 min Scan# 2373
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:107 Resp: 3787

Ion	Ratio	Lower	Upper
107	100		
109	91.8	0.0	186.4

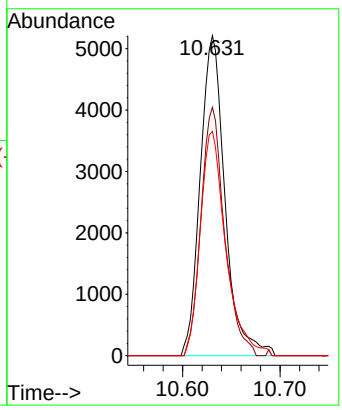




#57
4-Bromofluorobenzene
Concen: 1.082 ug/l
RT: 10.631 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 95 Resp: 920

Ion	Ratio	Lower	Upper
95	100		
174	73.9	59.8	89.8
176	72.1	61.8	92.8



Instrument :
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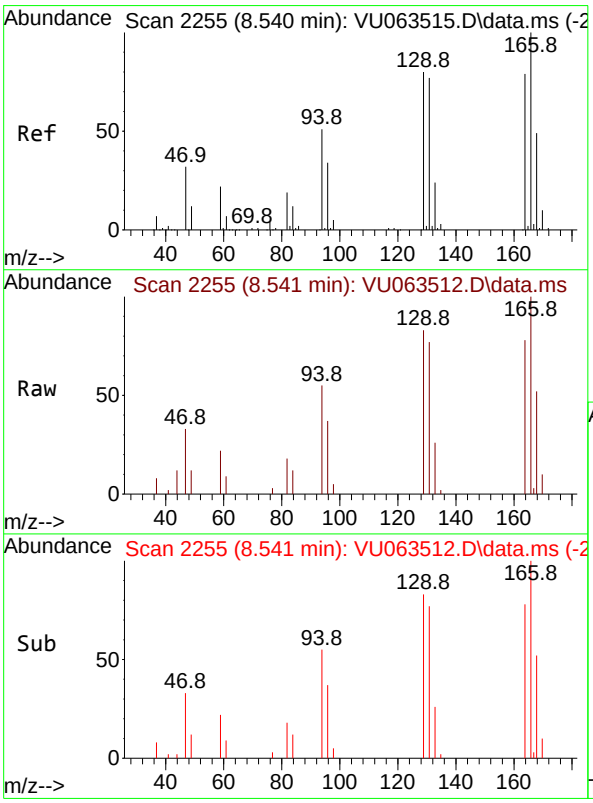
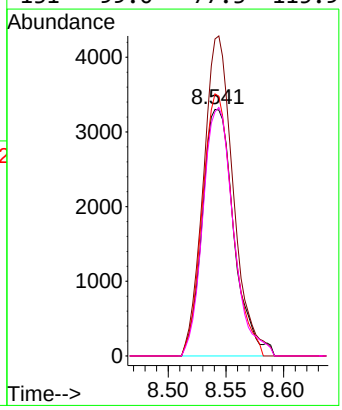
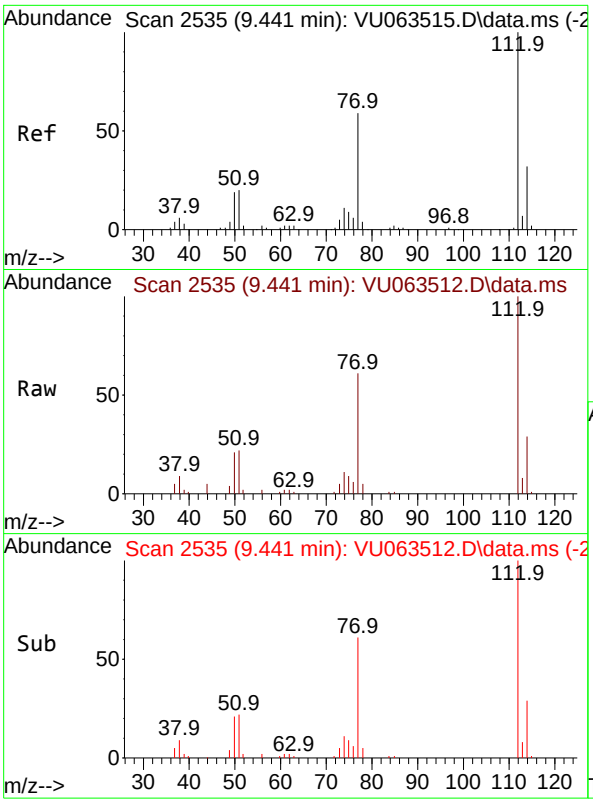


#58
Tetrachloroethene
Concen: 1.016 ug/l
RT: 8.541 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:164 Resp: 6276

Ion	Ratio	Lower	Upper
164	100		
166	128.5	100.7	151.1
129	106.3	80.6	120.8
131	99.0	77.3	115.9





#59
Chlorobenzene
Concen: 0.994 ug/l
RT: 9.441 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:112 Resp: 1649

Ion	Ratio	Lower	Upper
112	100		
114	29.5	25.4	38.2

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

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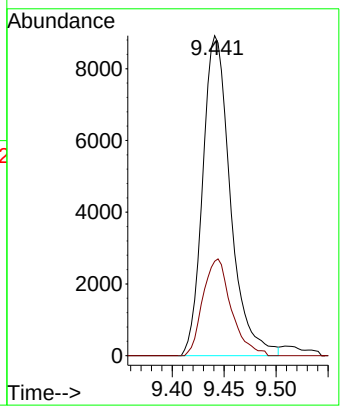
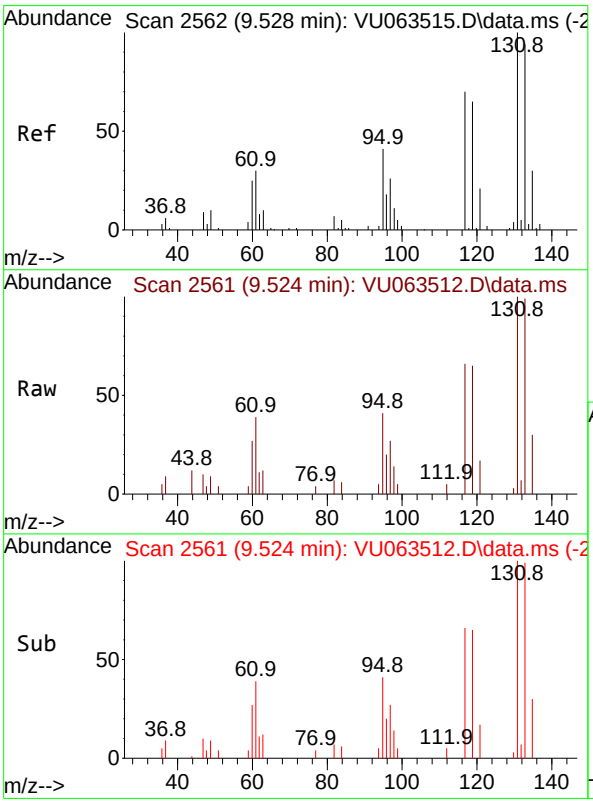
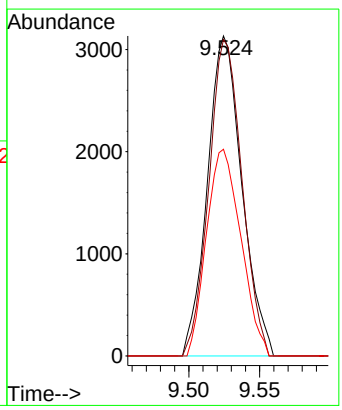


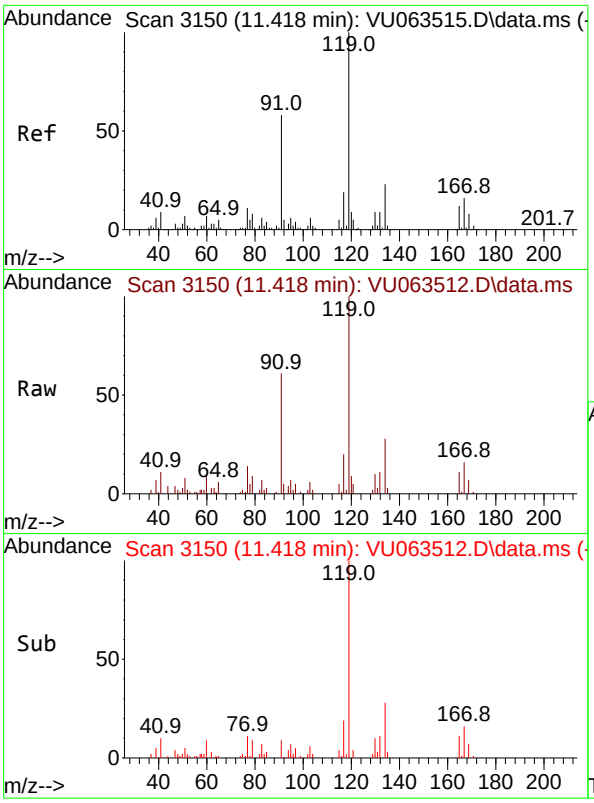


#60
1,1,1,2-Tetrachloroethane
Concen: 0.995 ug/l
RT: 9.524 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:131 Resp: 5306

Ion	Ratio	Lower	Upper
131	100		
133	94.8	74.7	112.1
119	64.5	53.0	79.4

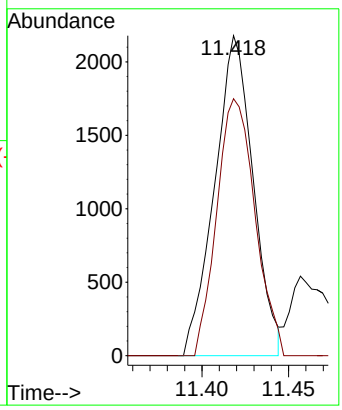




#61
Pentachloroethane
Concen: 0.894 ug/l
RT: 11.418 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:117 Resp: 337

Ion	Ratio	Lower	Upper
117	100		
167	79.7	65.0	97.6



Instrument :
MSVOA_U
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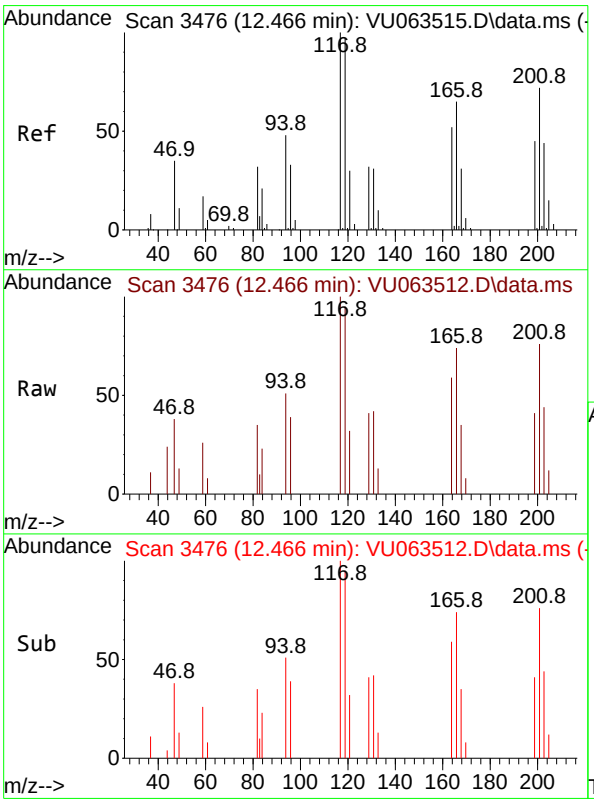
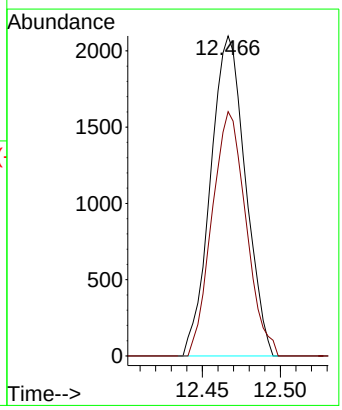
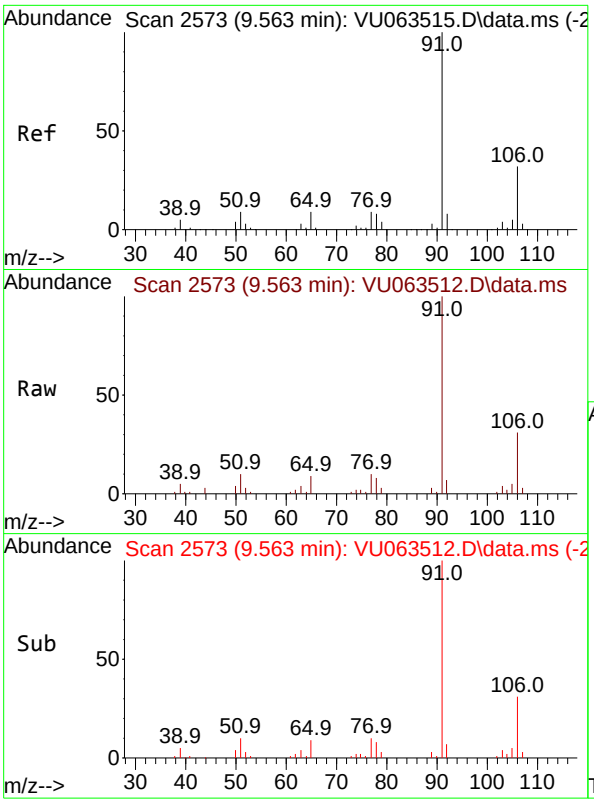


#62
Hexachloroethane
Concen: 0.875 ug/l
RT: 12.466 min Scan# 3476
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:117 Resp: 3268

Ion	Ratio	Lower	Upper
117	100		
201	74.5	57.4	86.0





#63
Ethyl Benzene
Concen: 0.992 ug/l
RT: 9.563 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 91 Resp: 2830

Ion	Ratio	Lower	Upper
91	100		
106	30.7	25.4	38.0

Instrument :
MSVOA_U
ClientSampleId :
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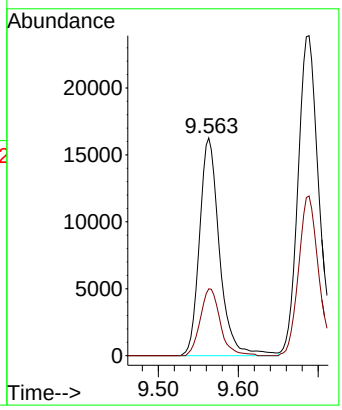
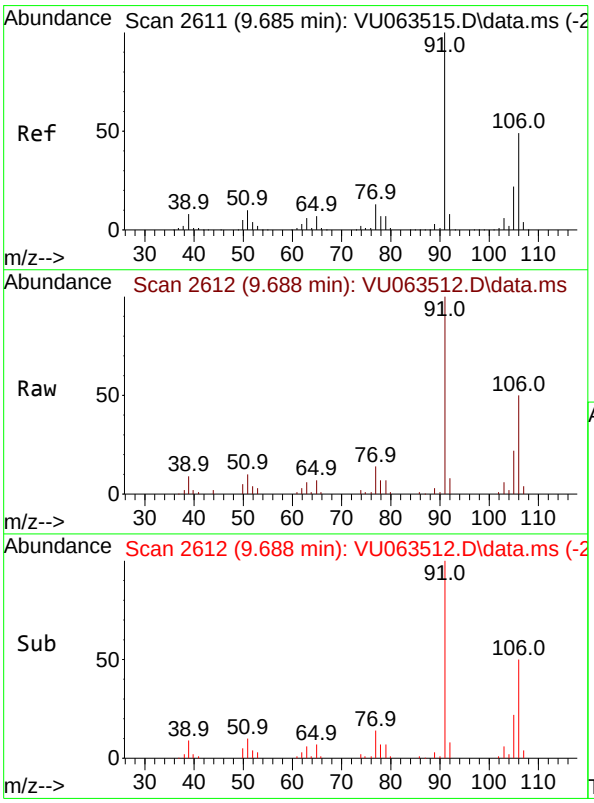
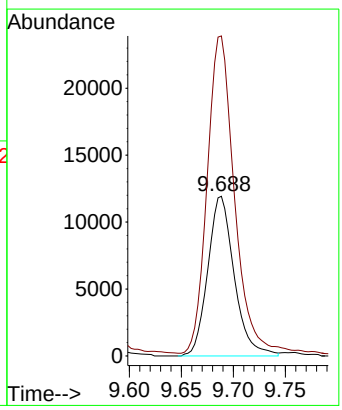


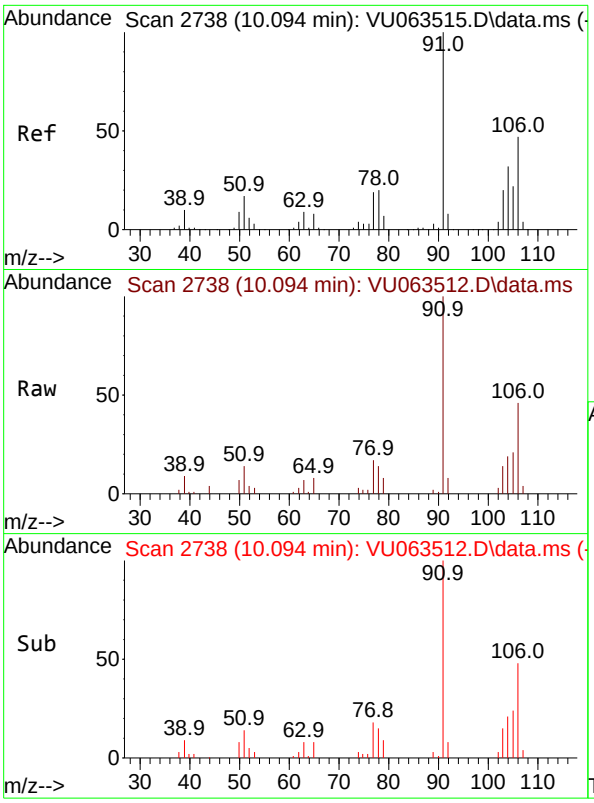


#64
m/p-Xylenes
Concen: 1.904 ug/l
RT: 9.688 min Scan# 2612
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:106 Resp: 21130

Ion	Ratio	Lower	Upper
106	100		
91	209.8	163.6	245.4

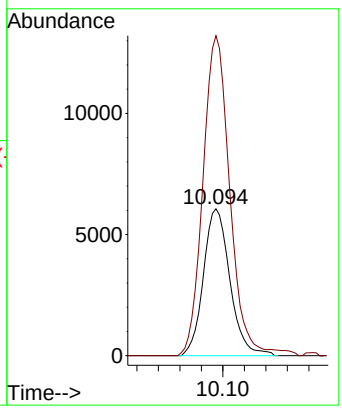




#65
o-Xylene
Concen: 0.974 ug/l
RT: 10.094 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:106 Resp: 1038

Ion	Ratio	Lower	Upper
106	100		
91	221.3	108.1	324.4



Instrument :
MSVOA_U
ClientSampleId :
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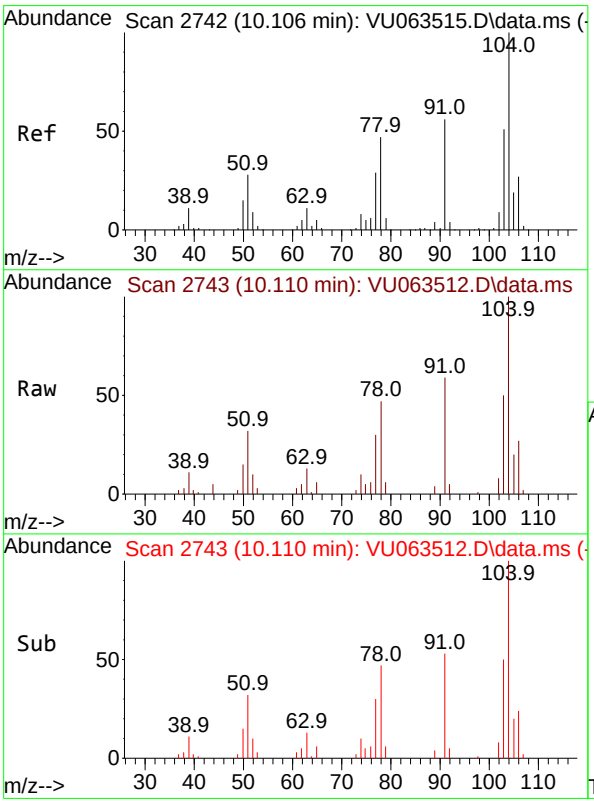
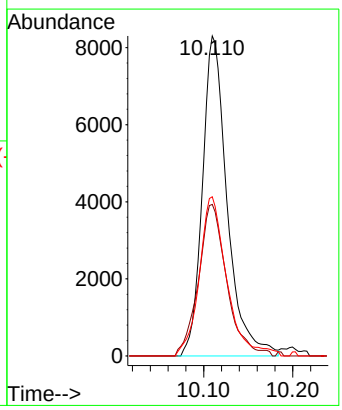
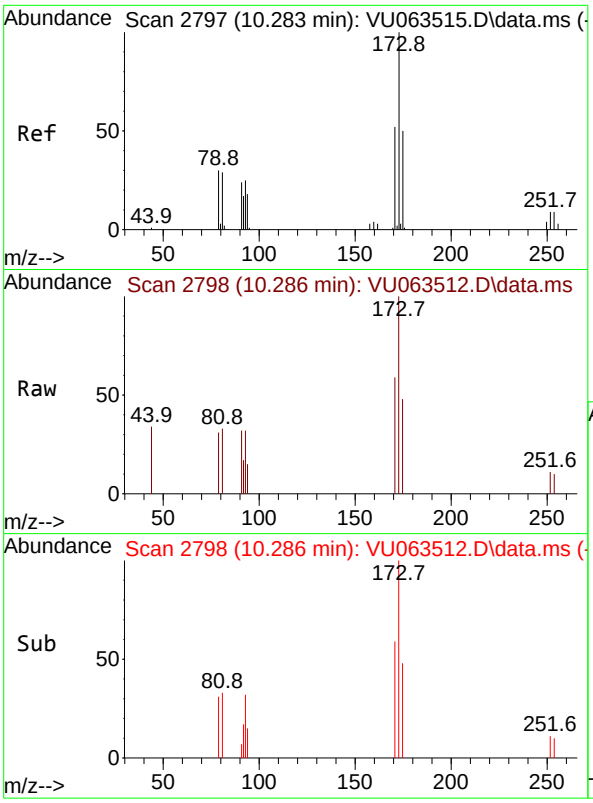


#66
Styrene
Concen: 0.945 ug/l
RT: 10.110 min Scan# 2743
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:104 Resp: 16060

Ion	Ratio	Lower	Upper
104	100		
78	53.8	41.3	61.9
103	55.0	43.6	65.4

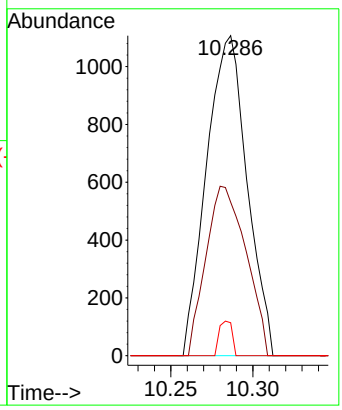




#67
Bromoform
Concen: 0.810 ug/l
RT: 10.286 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:173 Resp: 189

Ion	Ratio	Lower	Upper
173	100		
175	52.3	39.0	58.4
254	3.4	6.5	9.7#



Instrument :
MSVOA_U
ClientSampleId :
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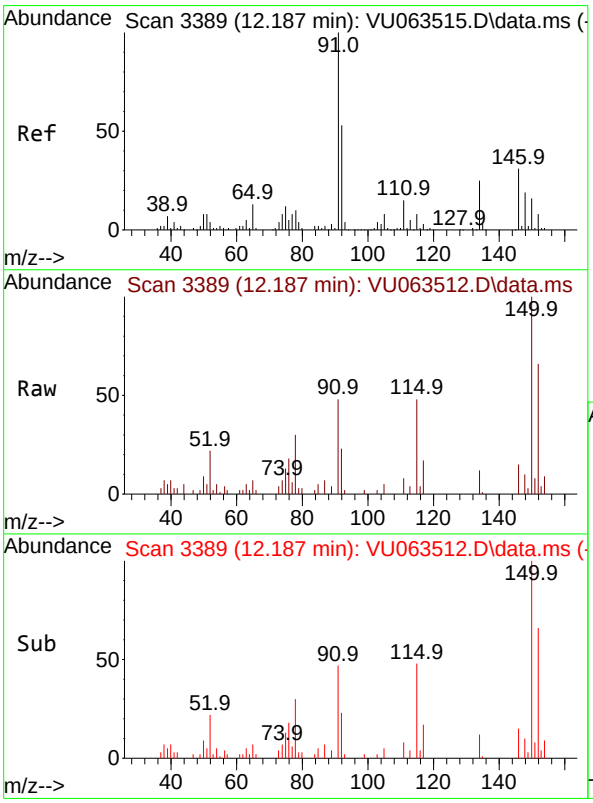
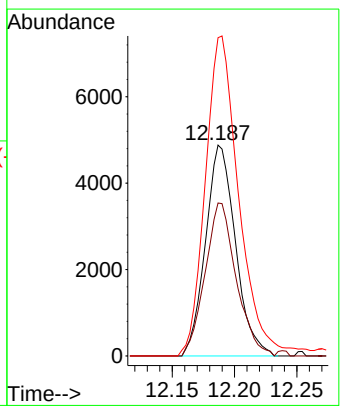
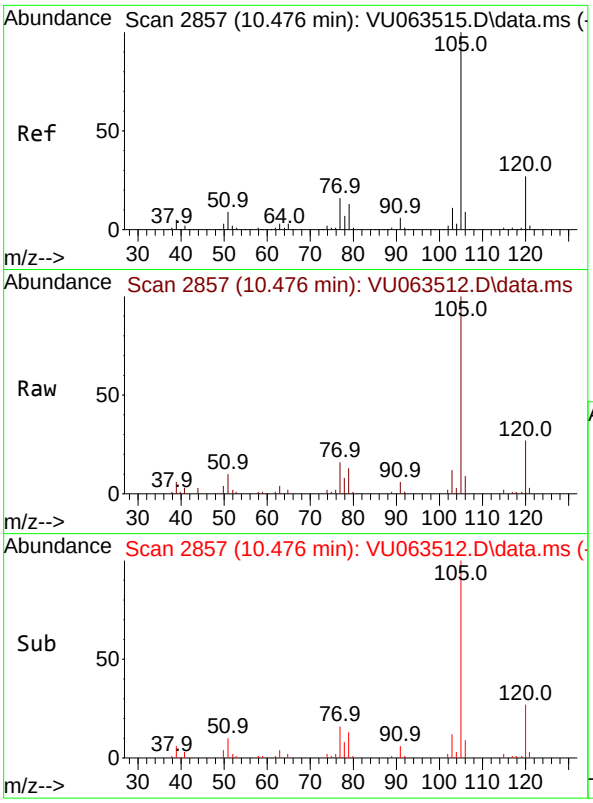


#68
1,2-Dichlorobenzene-d4
Concen: 1.038 ug/l
RT: 12.187 min Scan# 3389
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:152 Resp: 8165

Ion	Ratio	Lower	Upper
152	100		
115	75.3	0.0	262.2
150	170.7	0.0	651.2





#69
Isopropylbenzene
Concen: 0.974 ug/l
RT: 10.476 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:105 Resp: 2509

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.2	39.5

Instrument :
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ClientSampleId :
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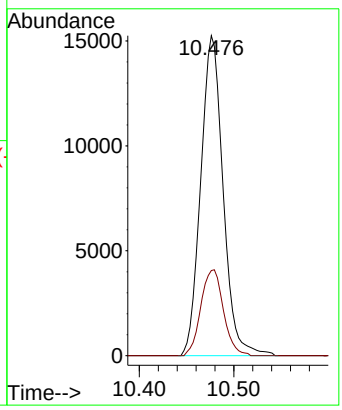
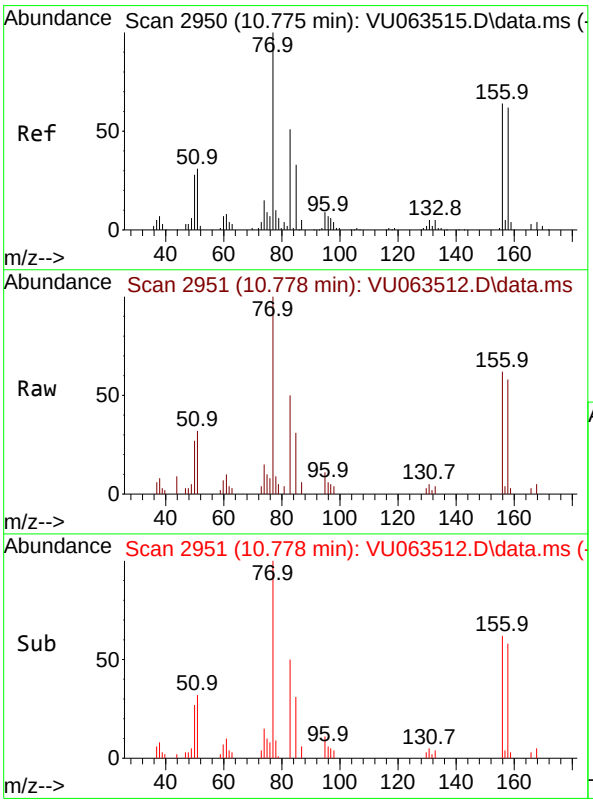
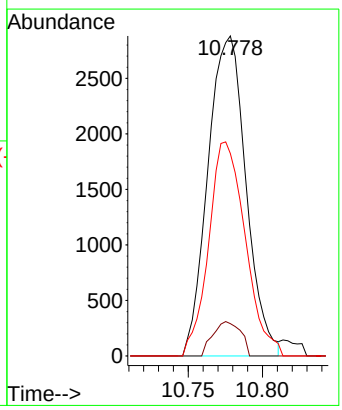


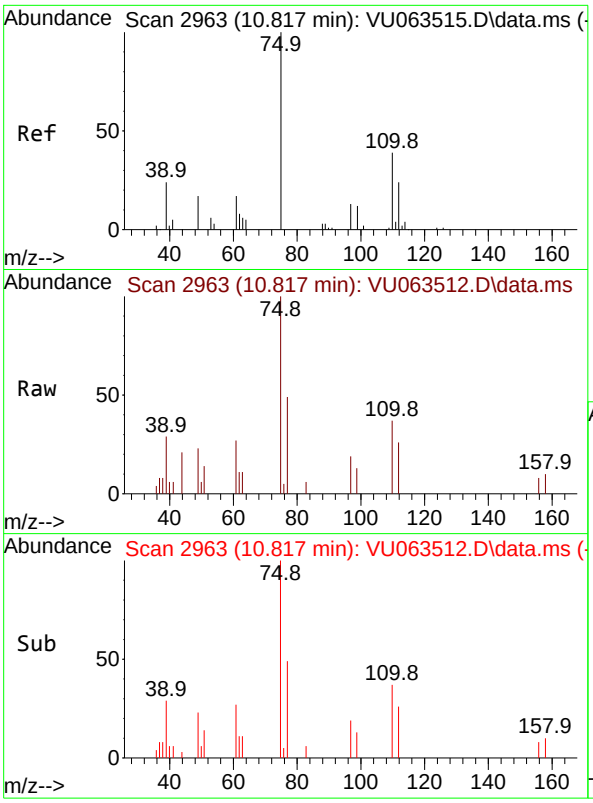


#70
1,1,2,2-Tetrachloroethane
Concen: 0.978 ug/l
RT: 10.778 min Scan# 2951
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 83 Resp: 5141

Ion	Ratio	Lower	Upper
83	100		
131	7.8	8.4	12.6#
85	64.3	51.9	77.9

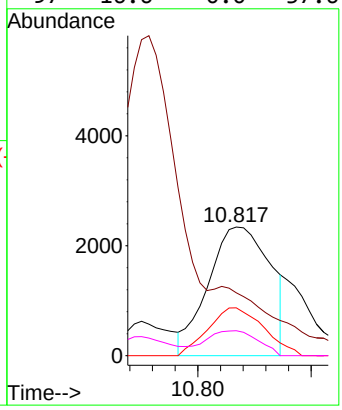




#71
1,2,3-Trichloropropane
Concen: 1.034 ug/l m
RT: 10.817 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 75 Resp: 443

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	33.5	0.0	73.2
97	16.6	0.0	37.6



Instrument :
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ClientSampleId :
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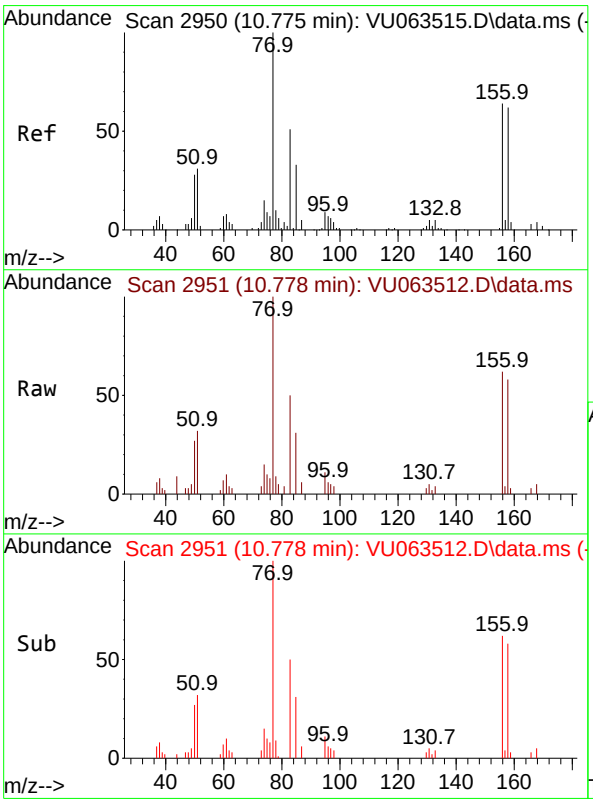
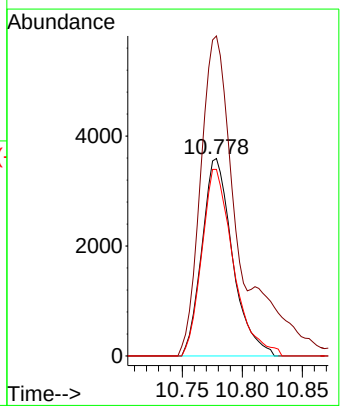
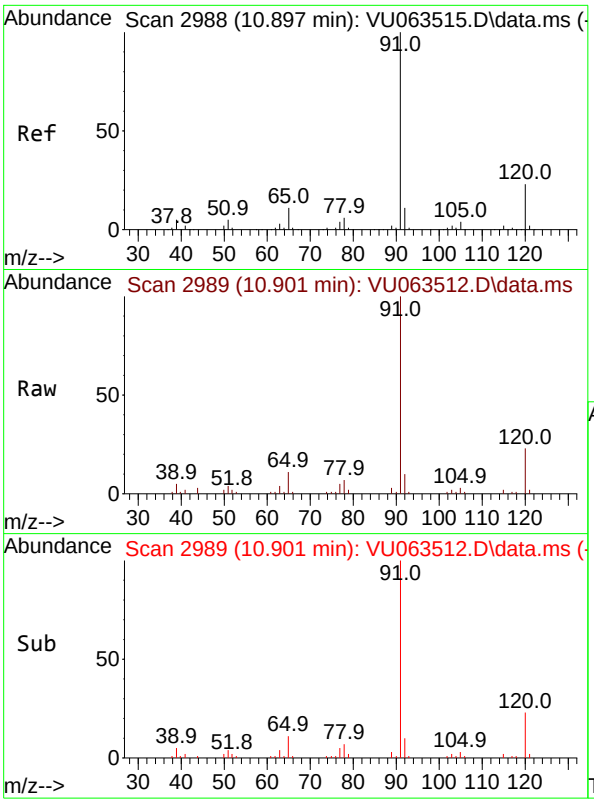


#72
Bromobenzene
Concen: 0.956 ug/l
RT: 10.778 min Scan# 2951
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:156 Resp: 6362

Ion	Ratio	Lower	Upper
156	100		
77	166.4	0.0	315.2
158	97.5	0.0	195.4

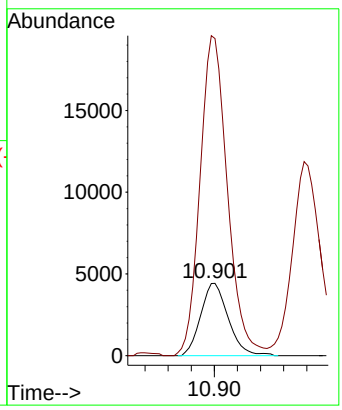




#73
n-propylbenzene
Concen: 0.946 ug/l
RT: 10.901 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:120 Resp: 734

Ion	Ratio	Lower	Upper
120	100		
91	439.3	343.1	514.7



Instrument :
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ClientSampleId :
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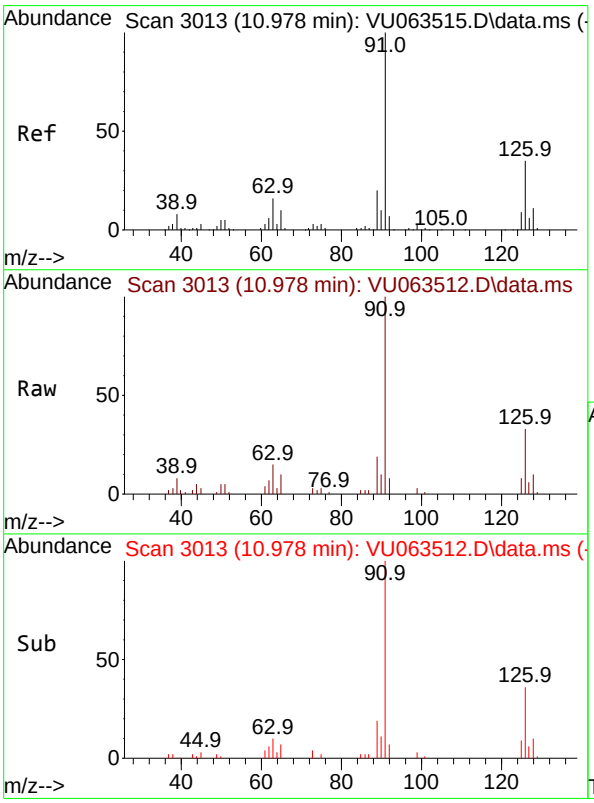
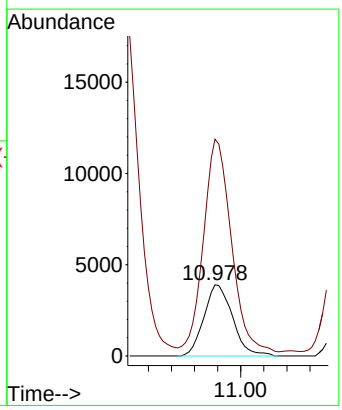
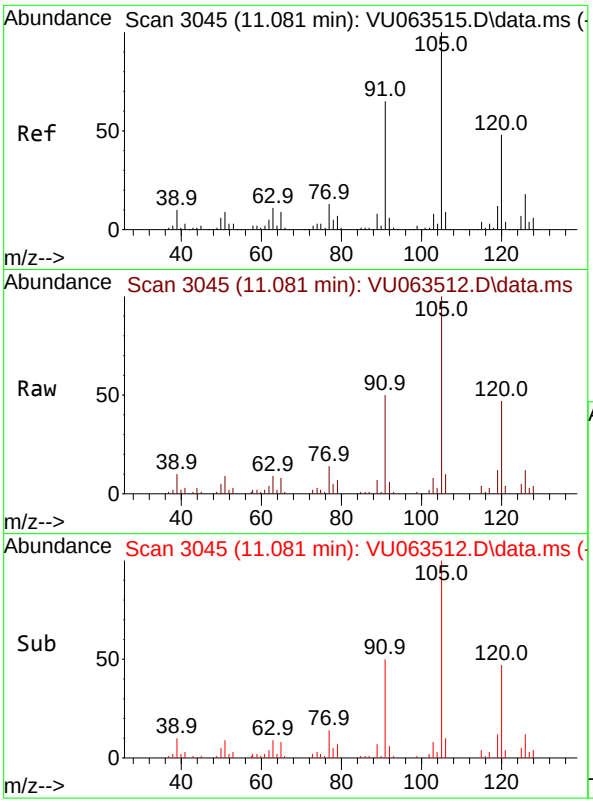


#74
2-Chlorotoluene
Concen: 0.976 ug/l
RT: 10.978 min Scan# 3013
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:126 Resp: 6695

Ion	Ratio	Lower	Upper
126	100		
91	293.8	0.0	606.0

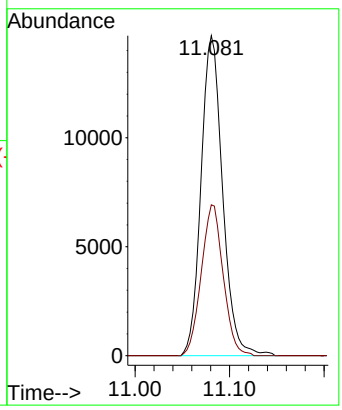




#75
1,3,5-Trimethylbenzene
Concen: 0.945 ug/l
RT: 11.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:105 Resp: 2326

Ion	Ratio	Lower	Upper
105	100		
120	47.9	37.8	56.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

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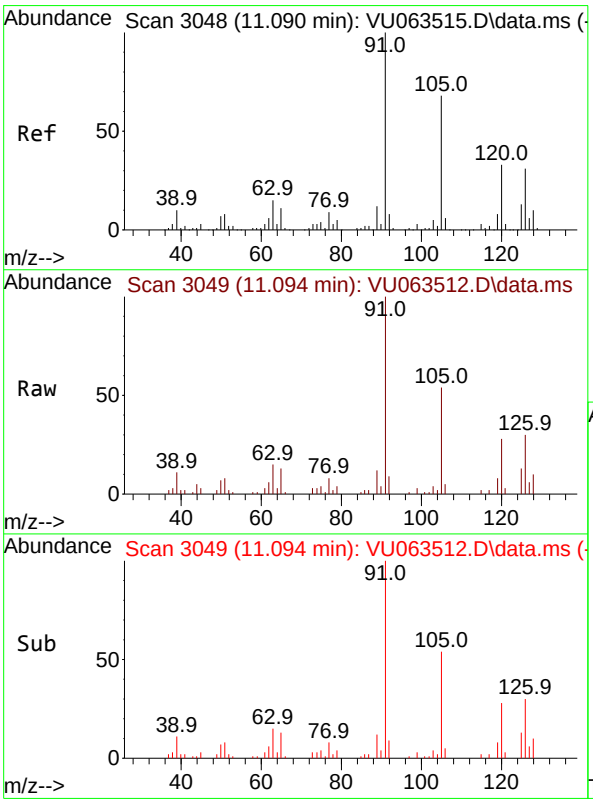
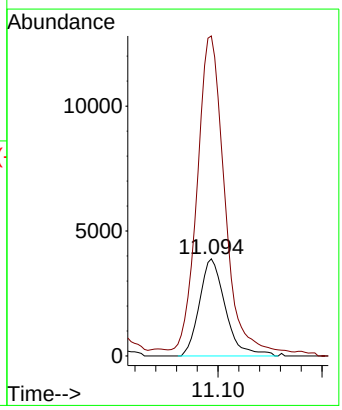
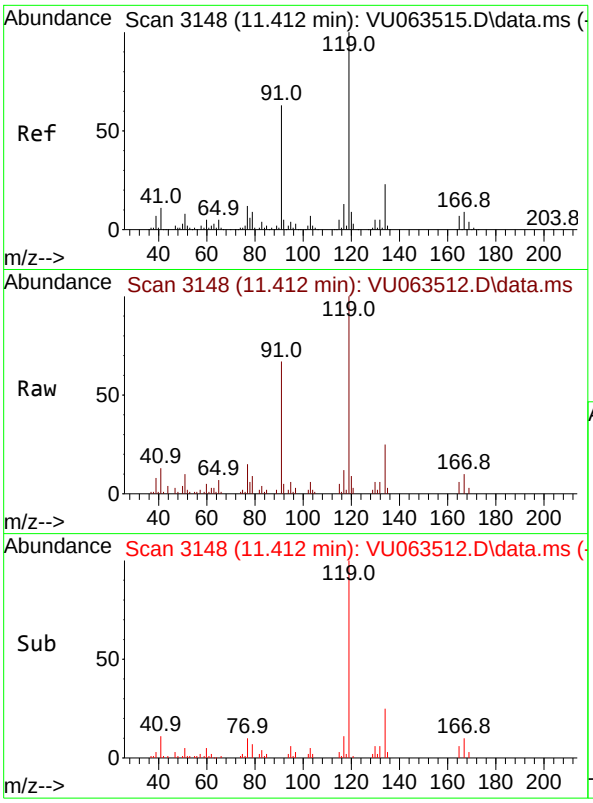


#76
4-Chlorotoluene
Concen: 0.967 ug/l
RT: 11.094 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:126 Resp: 6734

Ion	Ratio	Lower	Upper
126	100		
91	339.5	0.0	682.2

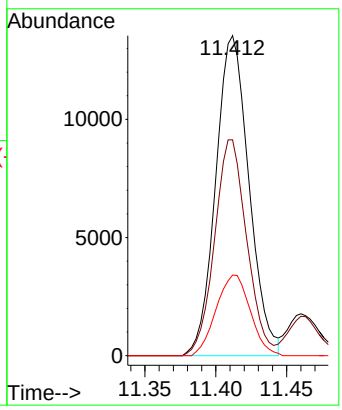




#77
tert-Butylbenzene
Concen: 0.942 ug/l
RT: 11.412 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:119 Resp: 2217

Ion	Ratio	Lower	Upper
119	100		
91	65.0	30.7	92.1
134	25.8	18.5	27.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

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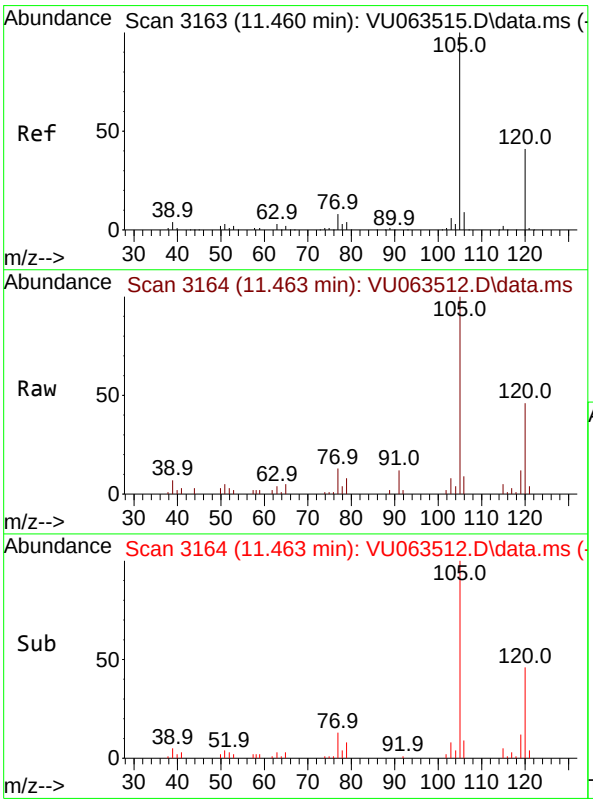
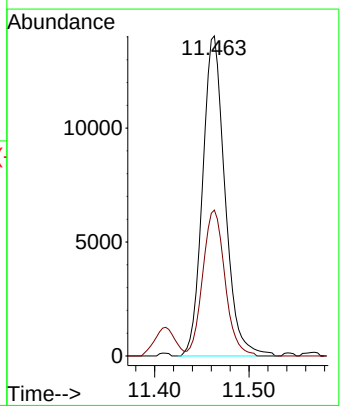
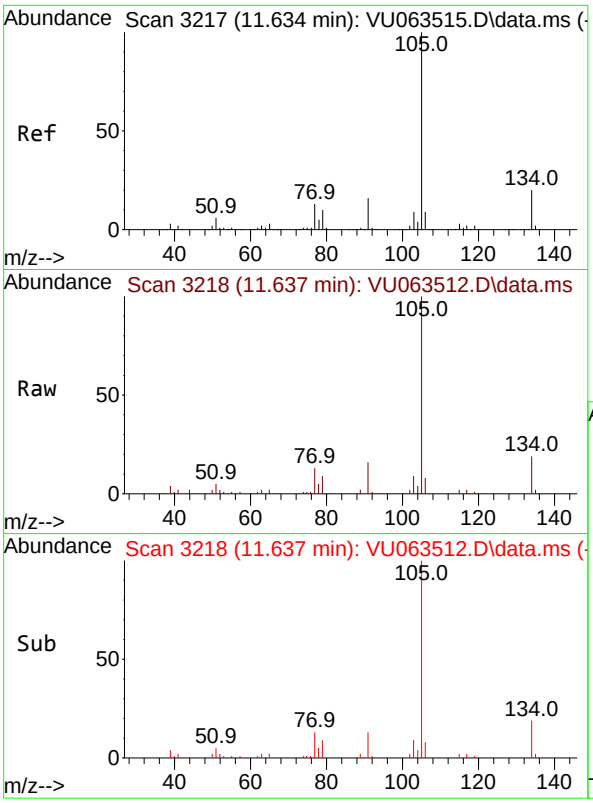


#78
1,2,4-Trimethylbenzene
Concen: 0.946 ug/l
RT: 11.463 min Scan# 3164
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:105 Resp: 23102

Ion	Ratio	Lower	Upper
105	100		
120	45.5	22.7	68.0

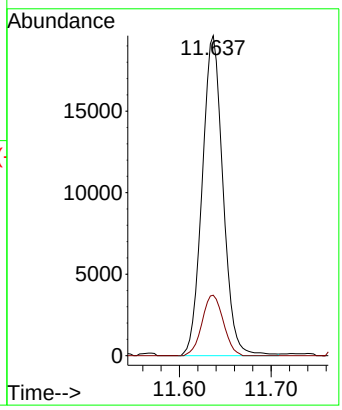




#79
sec-Butylbenzene
Concen: 0.974 ug/l
RT: 11.637 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:105 Resp: 3090

Ion	Ratio	Lower	Upper
105	100		
134	19.3	16.2	24.4



Instrument :
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ClientSampleId :
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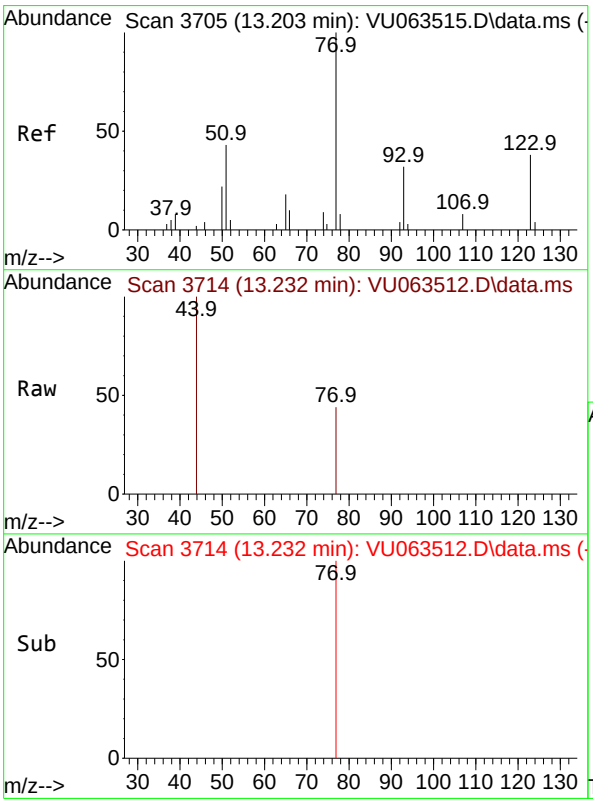
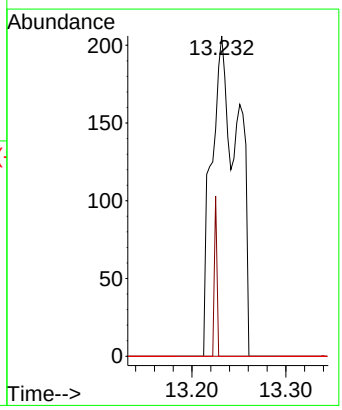
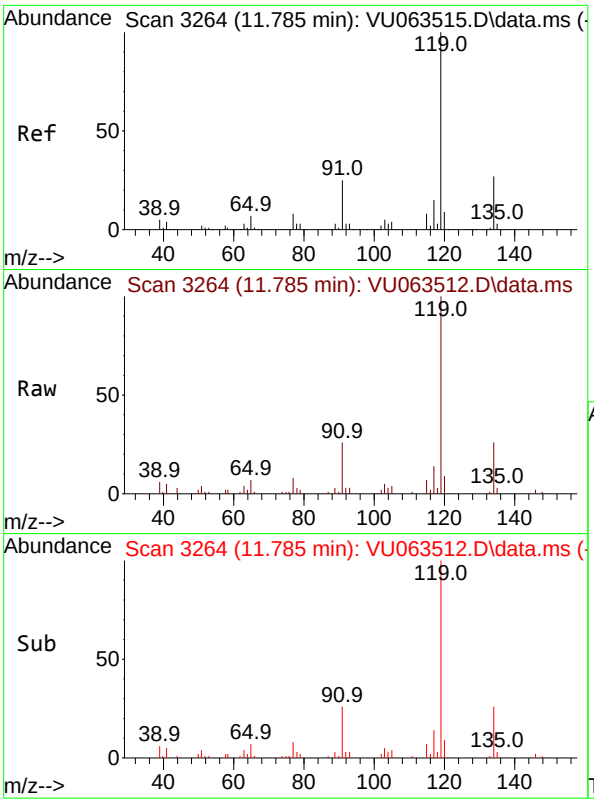


#80
Nitrobenzene
Concen: 5.705 ug/l m
RT: 13.232 min Scan# 3714
Delta R.T. 0.029 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 77 Resp: 400

Ion	Ratio	Lower	Upper
77	100		
123	5.0	16.9	59.7#
65	0.0	16.5	20.9#

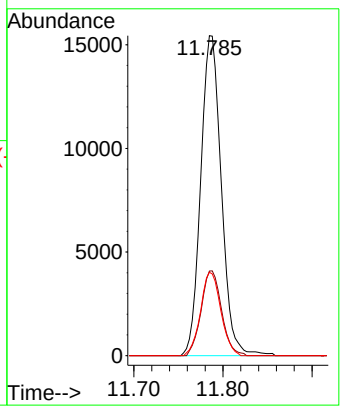




#81
p-Isopropyltoluene
Concen: 0.936 ug/l
RT: 11.785 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:119 Resp: 2479

Ion	Ratio	Lower	Upper
119	100		
134	26.2	21.1	31.7
91	25.6	19.8	29.8



Instrument :
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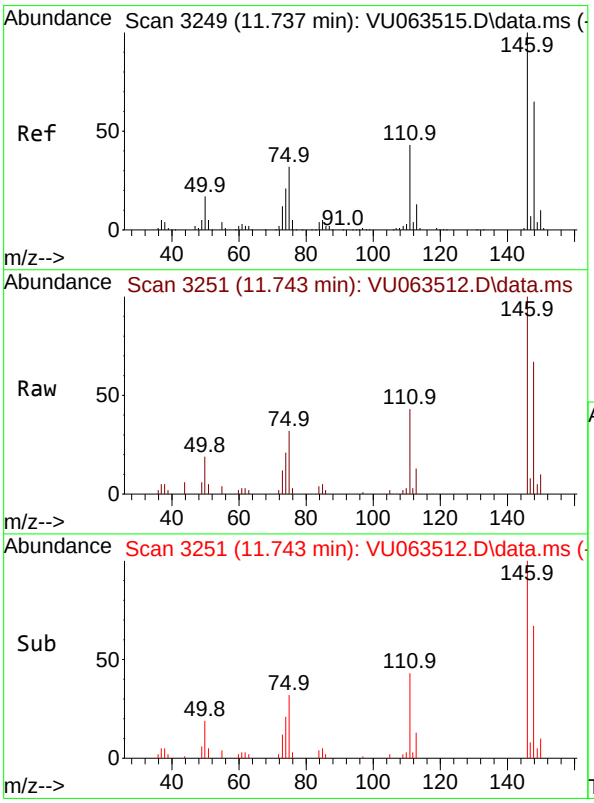
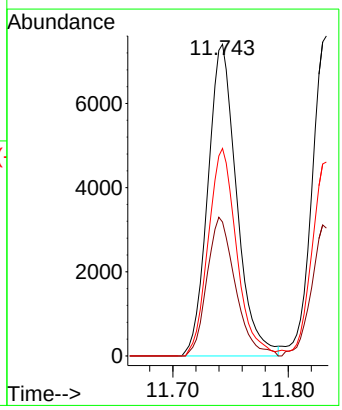
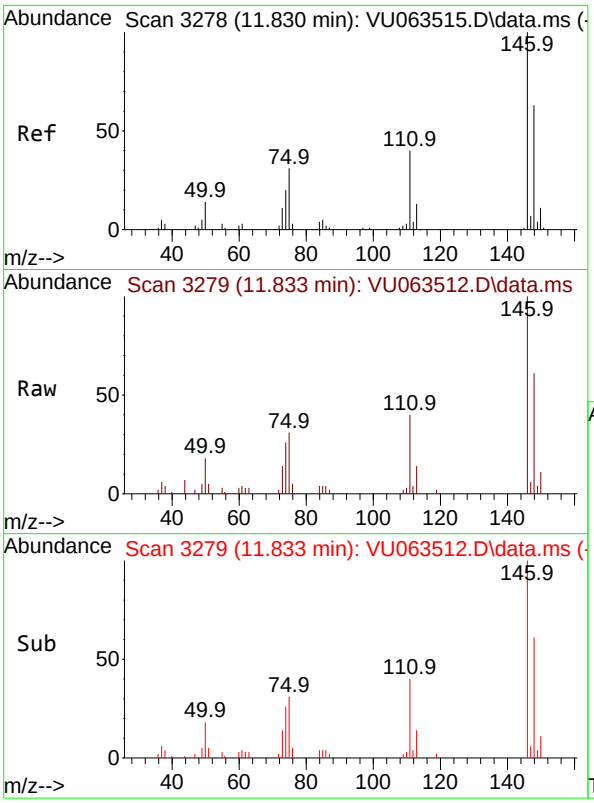


#82
1,3-Dichlorobenzene
Concen: 0.964 ug/l
RT: 11.743 min Scan# 3251
Delta R.T. 0.006 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:146 Resp: 12830

Ion	Ratio	Lower	Upper
146	100		
111	43.7	33.8	50.6
148	65.6	51.5	77.3

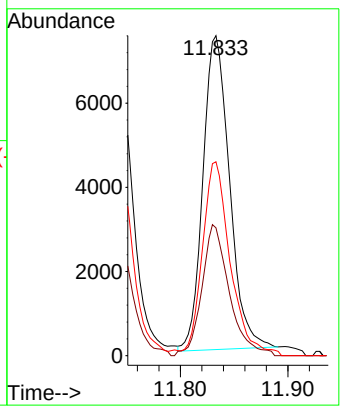




#83
1,4-Dichlorobenzene
Concen: 0.964 ug/l
RT: 11.833 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:146 Resp: 1284

Ion	Ratio	Lower	Upper
146	100		
111	42.8	32.0	48.0
148	64.6	50.2	75.2



Instrument :
MSVOA_U
ClientSampleId :
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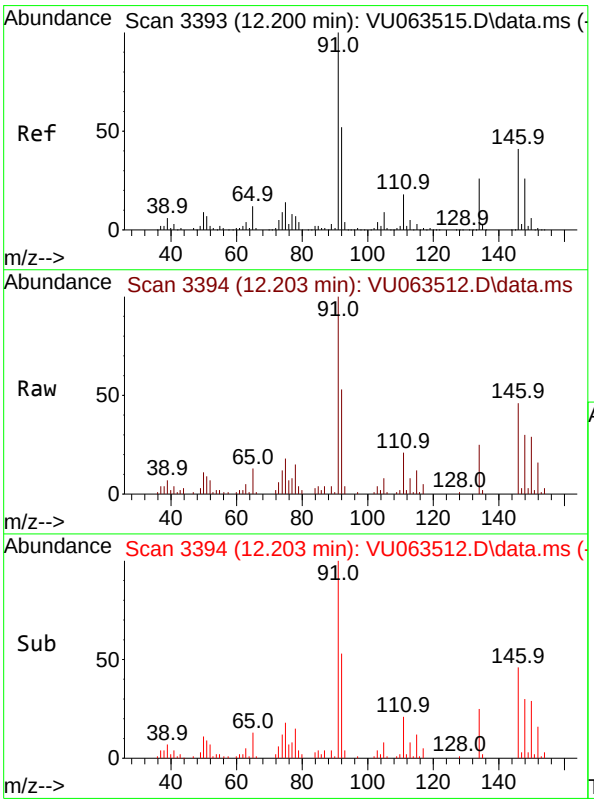
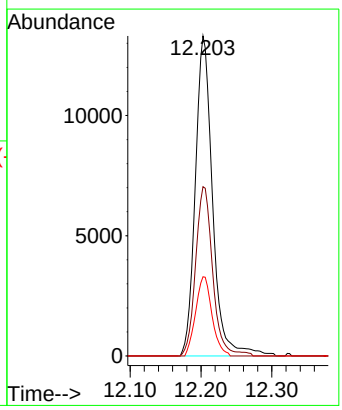
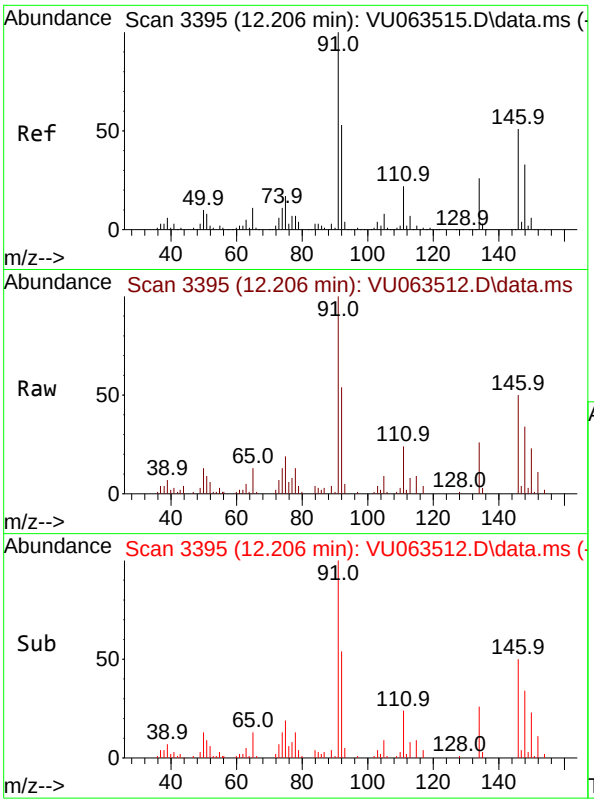


#84
n-Butylbenzene
Concen: 0.917 ug/l
RT: 12.203 min Scan# 3394
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 91 Resp: 22541

Ion	Ratio	Lower	Upper
91	100		
92	52.3	41.5	62.3
134	23.4	20.6	30.8

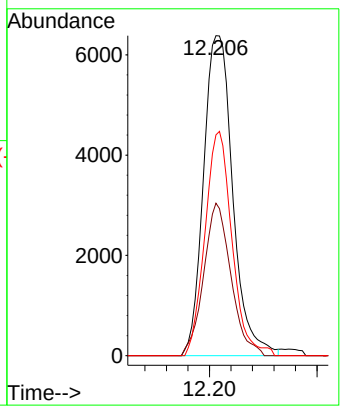




#85
1,2-Dichlorobenzene
Concen: 0.965 ug/l
RT: 12.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:146 Resp: 1207

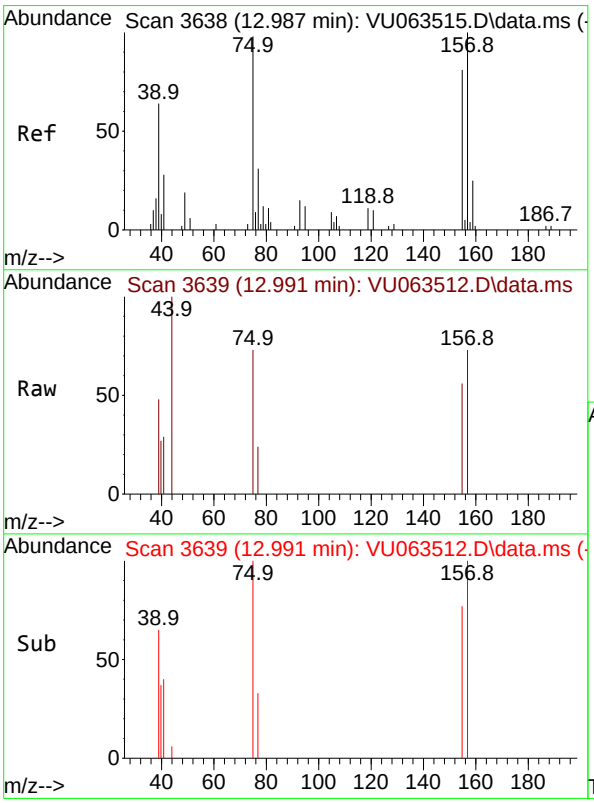
Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.7	65.1
148	64.8	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

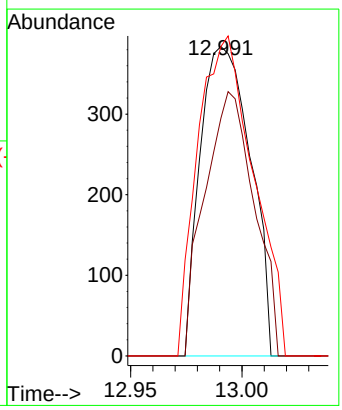
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

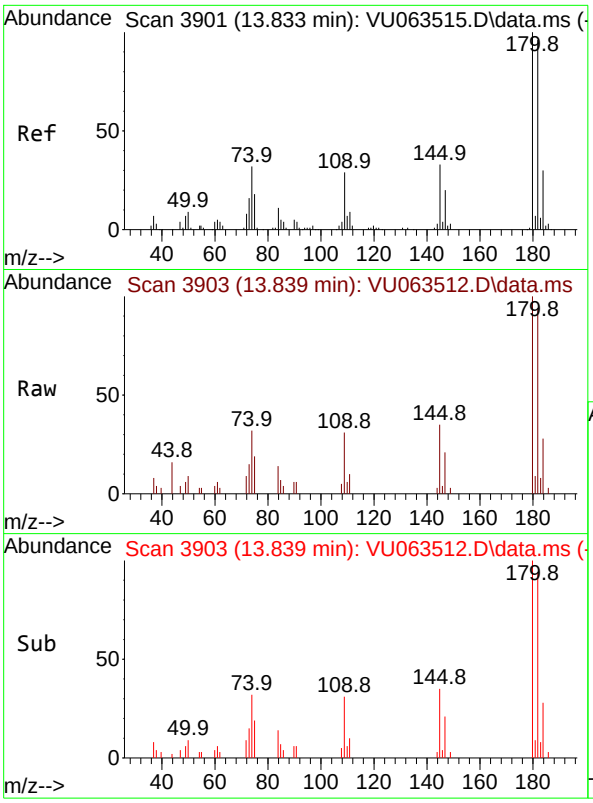


#86
1,2-Dibromo-3-Chloropropane
Concen: 0.991 ug/l
RT: 12.991 min Scan# 3639
Delta R.T. 0.004 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion: 75 Resp: 603

Ion	Ratio	Lower	Upper
75	100		
155	84.2	65.8	98.6
157	114.8	81.4	122.2

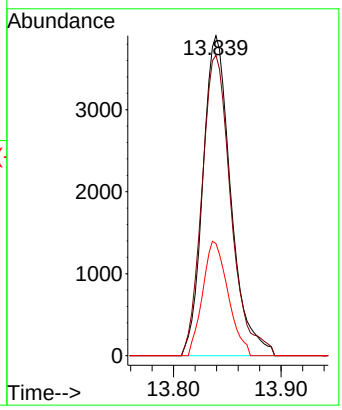




#87
1,2,4-Trichlorobenzene
Concen: 0.903 ug/l
RT: 13.839 min Scan# 3
Delta R.T. 0.006 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:180 Resp: 702

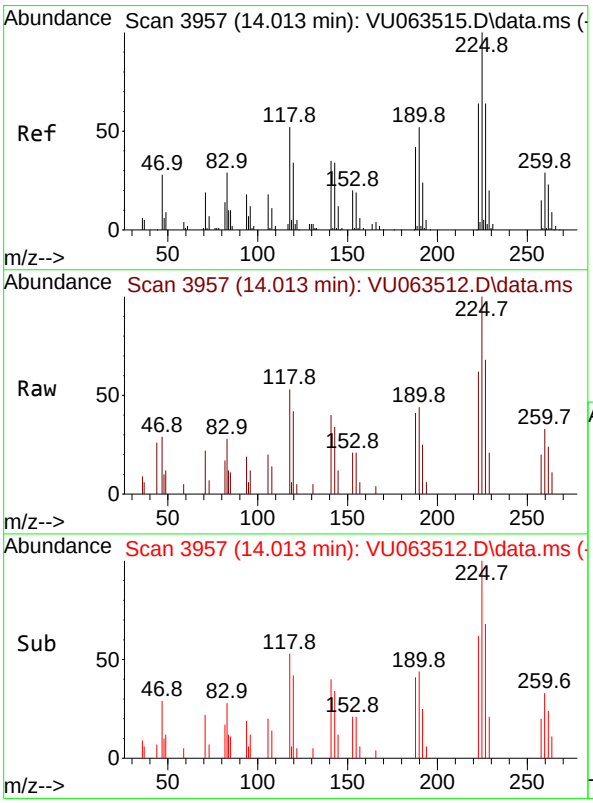
Ion	Ratio	Lower	Upper
180	100		
182	97.5	76.2	114.4
145	32.6	26.2	39.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

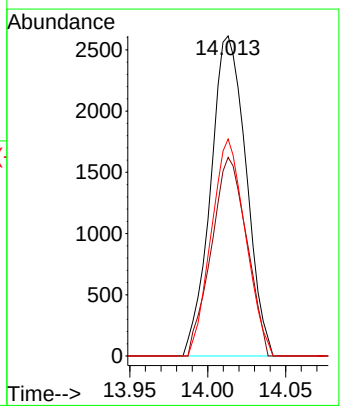
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

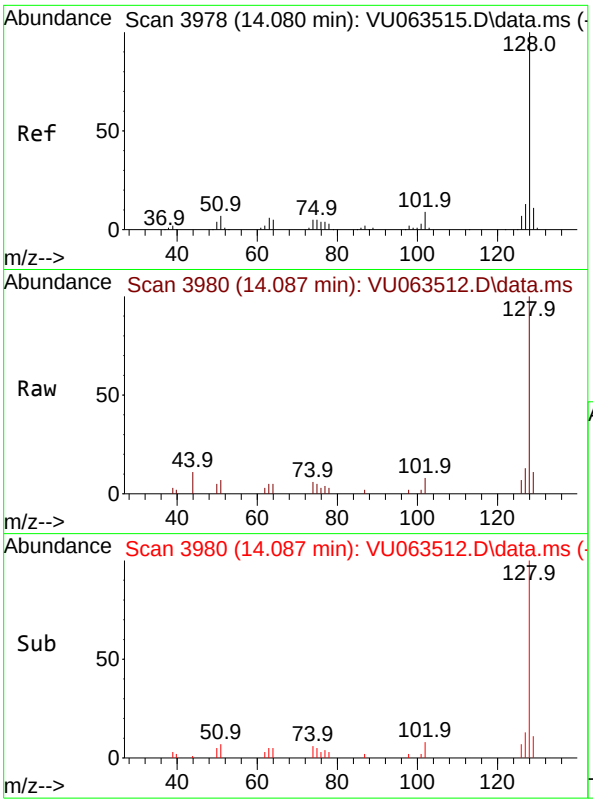


#88
Hexachlorobutadiene
Concen: 0.938 ug/l
RT: 14.013 min Scan# 3957
Delta R.T. 0.000 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:225 Resp: 4144

Ion	Ratio	Lower	Upper
225	100		
223	61.8	50.8	76.2
227	65.3	51.0	76.6

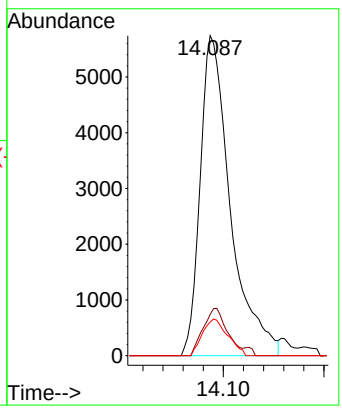




#89
Naphthalene
Concen: 0.859 ug/l
RT: 14.087 min Scan# 3
Delta R.T. 0.007 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:128 Resp: 1196

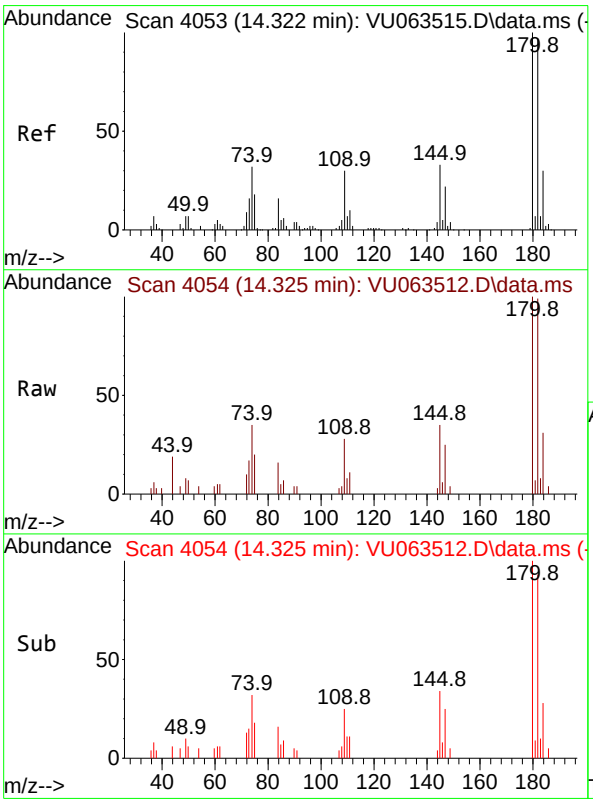
Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.2	15.4
129	9.6	8.8	13.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

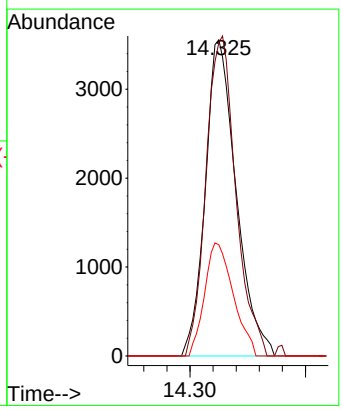
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#90
1,2,3-Trichlorobenzene
Concen: 0.920 ug/l
RT: 14.325 min Scan# 4054
Delta R.T. 0.003 min
Lab File: VU063512.D
Acq: 16 Jul 2025 09:54

Tgt Ion:180 Resp: 6612

Ion	Ratio	Lower	Upper
180	100		
182	97.4	78.0	117.0
145	33.1	27.3	40.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063513.D
Acq On : 16 Jul 2025 10:27
Operator : MD/SY
Sample : VSTDICC002
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:23:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.097	96	24713	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	8919	0.953	ug/l	0.00
Spiked Amount 1.000			Recovery = 95.000%			
68) 1,2-Dichlorobenzene-d4	12.187	152	8064	0.932	ug/l	0.00
Spiked Amount 1.000			Recovery = 93.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.380	85	13901	1.908	ug/l	99
3) Chloromethane	1.515	50	12922	1.908	ug/l	96
4) Vinyl Chloride	1.596	62	16476	1.910	ug/l	95
5) Bromomethane	1.846	94	13182	2.026	ug/l	99
6) Chloroethane	1.924	64	9817	1.885	ug/l	99
7) Trichlorofluoromethane	2.126	101	23274	1.879	ug/l	99
8) 1,1,2-Trichloro-1,2,2-...	2.567	101	12436	1.921	ug/l	99
9) 1,1-Dichloroethene	2.567	96	11909	1.856	ug/l	98
10) Iodomethane	2.708	142	11910	2.044	ug/l	99
11) Allyl Chloride	2.908	41	19248	2.077	ug/l	94
12) Acrylonitrile	3.306	53	6375m	3.971	ug/l	
13) Acetone	2.618	43	12988	10.102	ug/l	99
14) Carbon Disulfide	2.776	76	38838	1.874	ug/l	97
15) Methylene Chloride	3.030	84	14190	1.878	ug/l	97
16) trans-1,2-Dichloroethene	3.335	96	13749	1.887	ug/l	99
17) 1,1-Dichloroethane	3.846	63	25721	1.904	ug/l	99
18) 2-Butanone	4.715	43	19497	9.792	ug/l	98
19) Cyclohexane	5.358	56	21512	1.881	ug/l	98
20) Methylcyclohexane	6.743	83	19848	1.786	ug/l	97
21) 2,2-Dichloropropane	4.644	77	22099	1.922	ug/l	98
22) cis-1,2-Dichloroethene	4.647	96	14739	1.864	ug/l	98
23) Diethyl Ether	2.367	59	9590	1.962	ug/l	97
24) tert-Butyl Alcohol	3.190	59	11035	18.698	ug/l #	93
25) Methyl tert-Butyl Ether	3.361	73	31927	1.906	ug/l	98
26) Bromochloromethane	4.956	128	6299	1.908	ug/l	95
27) Chloroform	5.071	83	26561	1.927	ug/l	99
28) 1,1,1-Trichloroethane	5.293	97	22170	1.895	ug/l	99
29) 1,1-Dichloropropene	5.502	75	21342	1.970	ug/l	95
30) Carbon Tetrachloride	5.499	117	17885	1.900	ug/l	93
31) Isopropyl Ether	3.988	45	39017	1.914	ug/l	99
32) Ethyl-t-butyl ether	4.502	59	36341	1.926	ug/l	100
33) Tert-Amyl methyl ether	5.943	73	32364	1.977	ug/l	99
34) Propionitrile	4.772	54	5922	9.762	ug/l	98
35) Benzene	5.753	78	57563	1.977	ug/l	100
36) 1,2-Dichloroethane	5.782	62	17934	1.982	ug/l	100
37) Trichloroethene	6.528	130	13293	1.790	ug/l	97
38) 1,2-Dichloropropane	6.782	63	12386	1.818	ug/l	97
39) Methacrylonitrile	4.968	41	5277	1.982	ug/l	93
40) Methyl acrylate	4.846	55	6918	1.755	ug/l	96
41) Tetrahydrofuran	5.065	42	5330	3.757	ug/l	96
42) 1-Chlorobutane	5.438	56	27320	1.896	ug/l	100
43) Dibromomethane	6.907	93	6494	1.840	ug/l	94
44) Bromodichloromethane	7.097	83	14822	1.862	ug/l #	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063513.D
Acq On : 16 Jul 2025 10:27
Operator : MD/SY
Sample : VSTDICC002
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:23:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 4-Methyl-2-Pentanone	7.798	43	33590	9.233	ug/l		100
46) t-1,4-Dichloro-2-butene	10.824	75	4957m	3.841	ug/l		
47) Methyl methacrylate	6.968	69	10710	3.613	ug/l		96
48) Ethyl methacrylate	8.335	69	10760	1.902	ug/l		97
49) Toluene	7.959	92	29457	1.853	ug/l		97
50) t-1,3-Dichloropropene	8.206	75	11035	1.767	ug/l		99
51) cis-1,3-Dichloropropene	7.602	75	14409	1.719	ug/l		99
52) 1,1,2-Trichloroethane	8.393	97	8889	1.871	ug/l		98
53) 1,3-Dichloropropane	8.570	76	15693	1.913	ug/l		99
54) 2-Hexanone	8.692	43	21569	8.926	ug/l		98
55) Dibromochloromethane	8.801	129	9158	1.824	ug/l		99
56) 1,2-Dibromoethane	8.920	107	7956	1.871	ug/l		99
58) Tetrachloroethene	8.541	164	13165	1.936	ug/l		95
59) Chlorobenzene	9.441	112	33922	1.858	ug/l		99
60) 1,1,1,2-Tetrachloroethane	9.525	131	10771	1.835	ug/l		98
61) Pentachloroethane	11.418	117	7292	1.758	ug/l		93
62) Hexachloroethane	12.467	117	7073	1.722	ug/l		93
63) Ethyl Benzene	9.563	91	58862	1.874	ug/l		100
64) m/p-Xylenes	9.685	106	45864	3.756	ug/l		97
65) o-Xylene	10.094	106	21340	1.819	ug/l		98
66) Styrene	10.110	104	34112	1.824	ug/l		96
67) Bromoform	10.283	173	4536	1.759	ug/l	#	92
69) Isopropylbenzene	10.476	105	52260	1.842	ug/l		99
70) 1,1,2,2-Tetrachloroethane	10.775	83	10710	1.852	ug/l		97
71) 1,2,3-Trichloropropane	10.817	75	8980m	1.903	ug/l		
72) Bromobenzene	10.775	156	13109	1.791	ug/l		79
73) n-propylbenzene	10.901	120	15950	1.868	ug/l		98
74) 2-Chlorotoluene	10.978	126	14070	1.864	ug/l		98
75) 1,3,5-Trimethylbenzene	11.081	105	50061	1.847	ug/l		98
76) 4-Chlorotoluene	11.094	126	14644	1.911	ug/l		91
77) tert-Butylbenzene	11.412	119	48176	1.860	ug/l		99
78) 1,2,4-Trimethylbenzene	11.460	105	49637	1.846	ug/l		99
79) sec-Butylbenzene	11.634	105	64443	1.845	ug/l		98
80) Nitrobenzene	13.219	77	861	9.644	ug/l	#	78
81) p-Isopropyltoluene	11.785	119	53922	1.850	ug/l		99
82) 1,3-Dichlorobenzene	11.740	146	26844	1.833	ug/l		99
83) 1,4-Dichlorobenzene	11.833	146	26650	1.818	ug/l		98
84) n-Butylbenzene	12.203	91	48694	1.801	ug/l		99
85) 1,2-Dichlorobenzene	12.206	146	24834	1.805	ug/l		99
86) 1,2-Dibromo-3-Chloropr...	12.994	75	1550	2.046	ug/l		91
87) 1,2,4-Trichlorobenzene	13.836	180	15327	1.791	ug/l		97
88) Hexachlorobutadiene	14.013	225	8872	1.826	ug/l		98
89) Naphthalene	14.087	128	25691	1.675	ug/l		98
90) 1,2,3-Trichlorobenzene	14.325	180	13999	1.770	ug/l		99

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

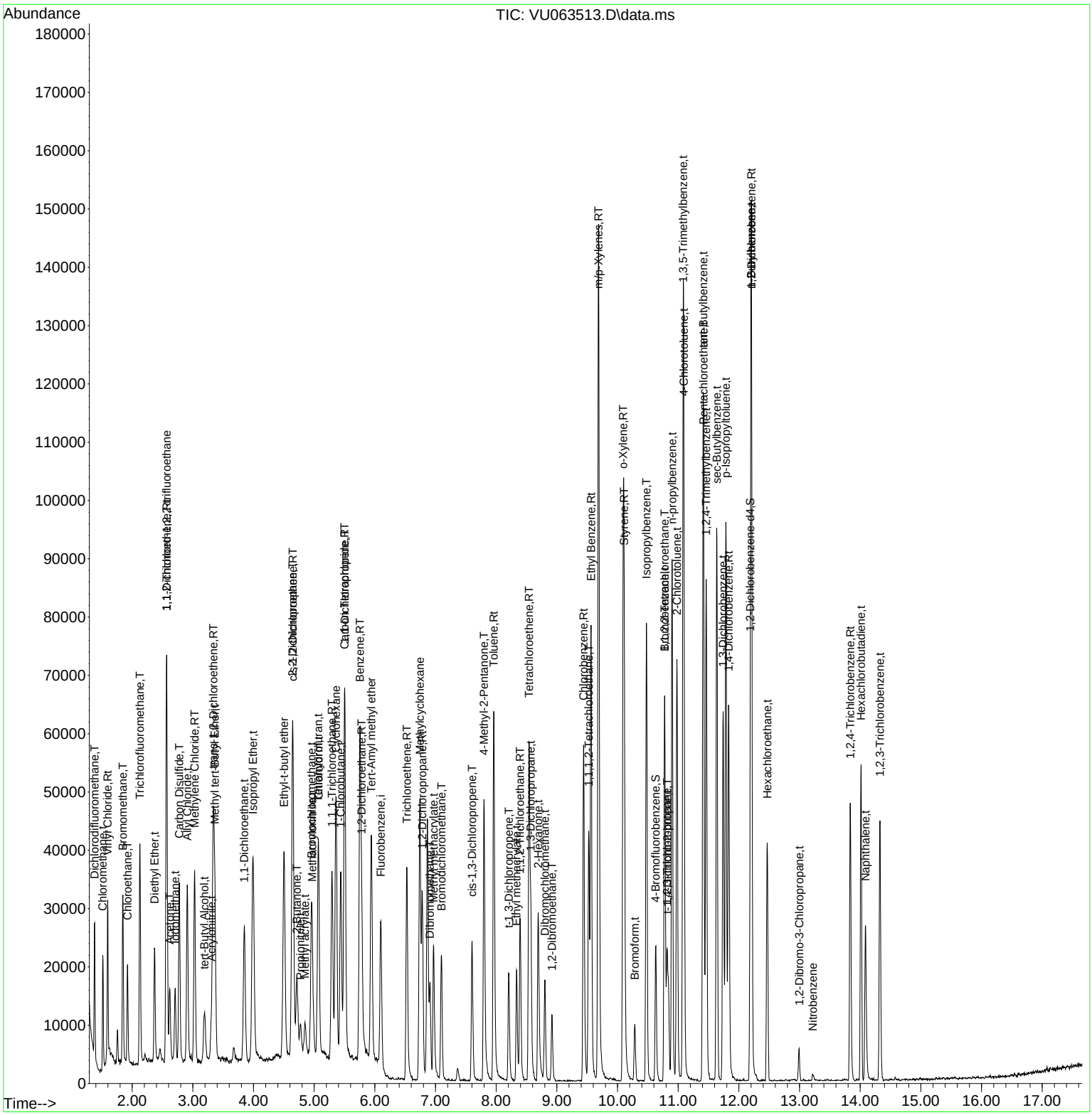
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063513.D
Acq On : 16 Jul 2025 10:27
Operator : MD/SY
Sample : VSTDICC002
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

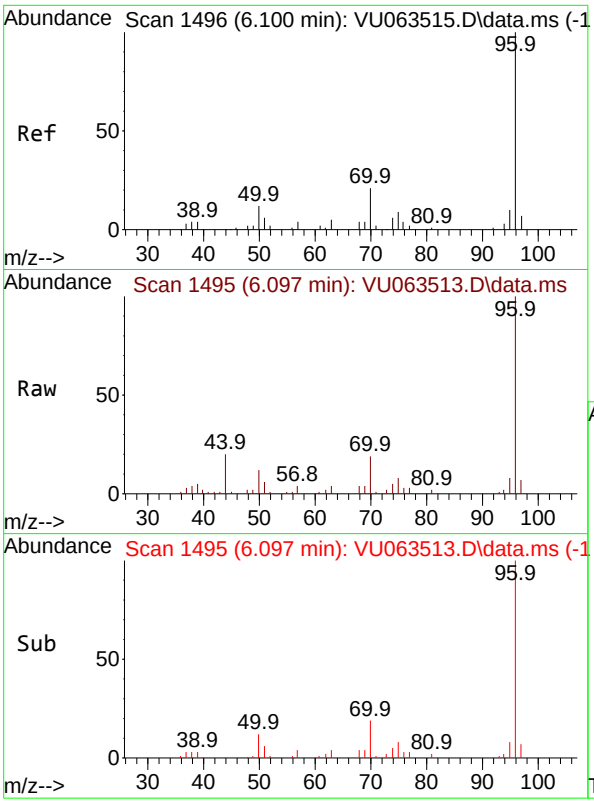
Quant Time: Jul 17 03:23:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

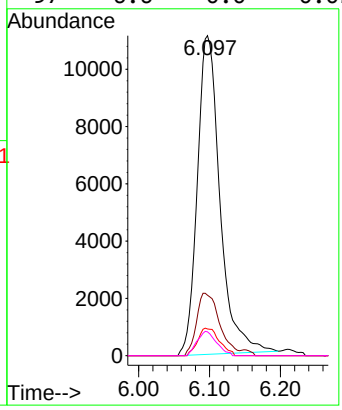




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.097 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 96 Resp: 2471

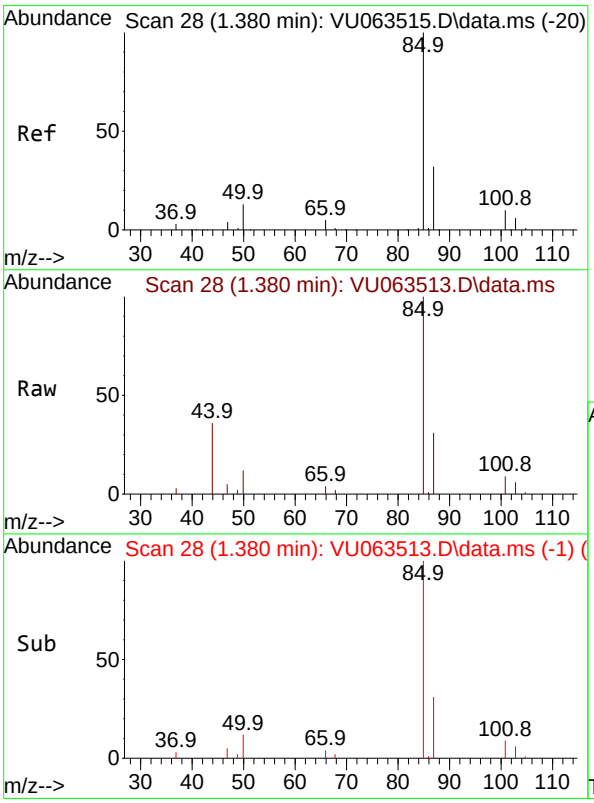
Ion	Ratio	Lower	Upper
96	100		
70	18.2	15.0	22.4
95	8.2	7.4	11.0
97	6.6	0.0	0.0#



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

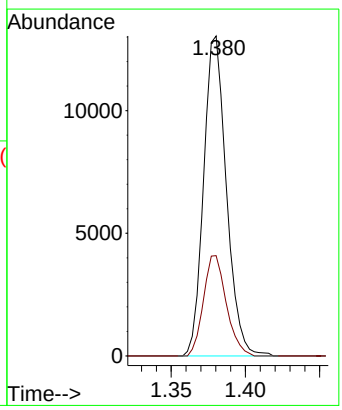
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

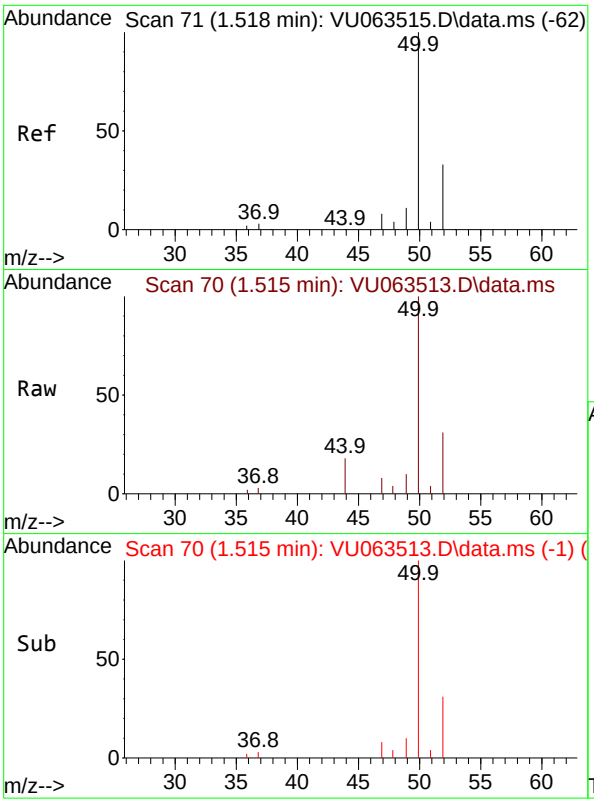


#2
Dichlorodifluoromethane
Concen: 1.908 ug/l
RT: 1.380 min Scan# 28
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 85 Resp: 13901

Ion	Ratio	Lower	Upper
85	100		
87	31.3	16.0	47.9

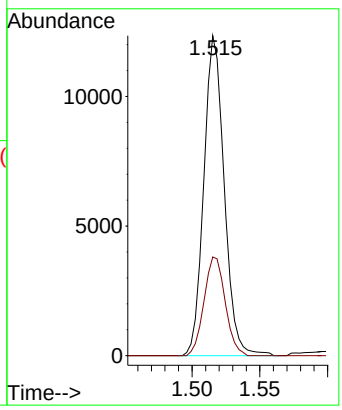




#3
Chloromethane
Concen: 1.908 ug/l
RT: 1.515 min Scan# 7
Delta R.T. -0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 50 Resp: 1292

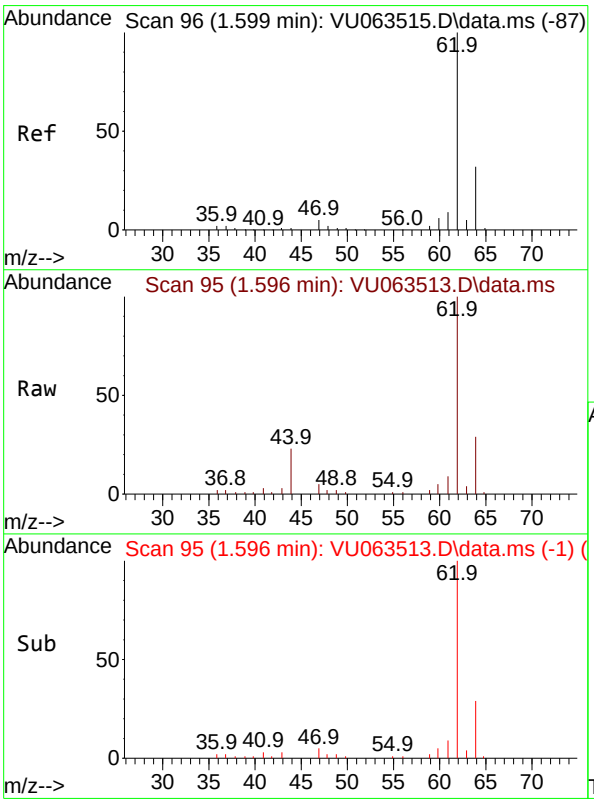
Ion	Ratio	Lower	Upper
50	100		
52	30.8	26.3	39.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

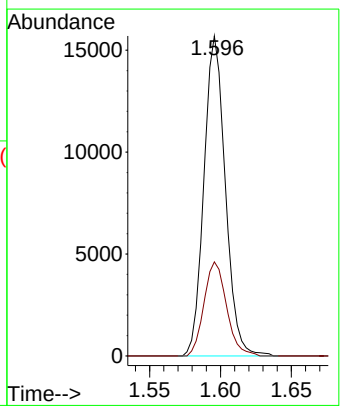
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

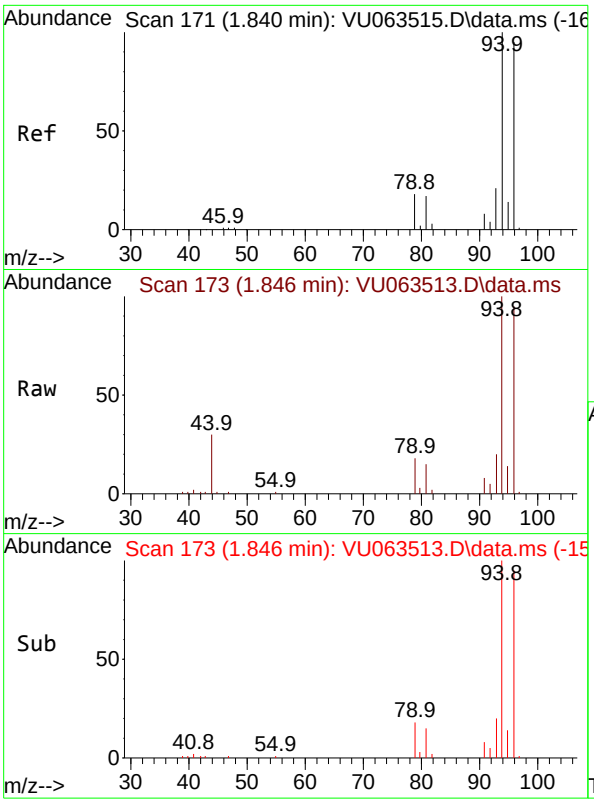


#4
Vinyl Chloride
Concen: 1.910 ug/l
RT: 1.596 min Scan# 95
Delta R.T. -0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 62 Resp: 16476

Ion	Ratio	Lower	Upper
62	100		
64	29.4	25.7	38.5

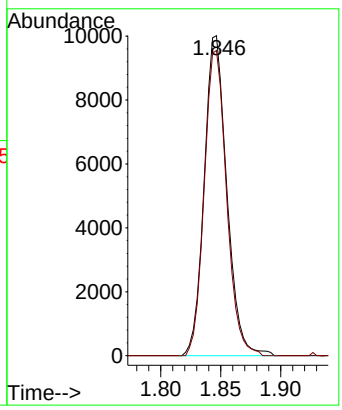




#5
Bromomethane
Concen: 2.026 ug/l
RT: 1.846 min Scan# 1
Delta R.T. 0.007 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 94 Resp: 1318

Ion	Ratio	Lower	Upper
94	100		
96	95.4	75.8	113.6



Instrument :
MSVOA_U
ClientSampleId :
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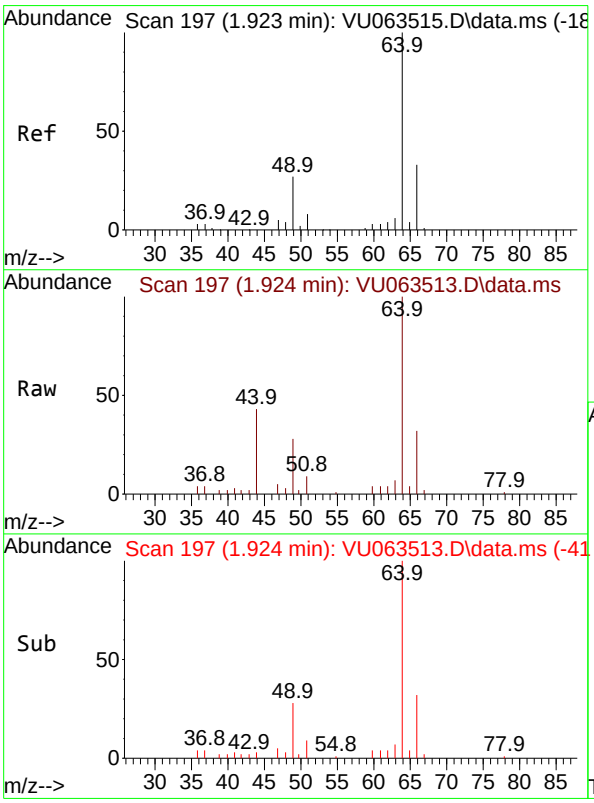
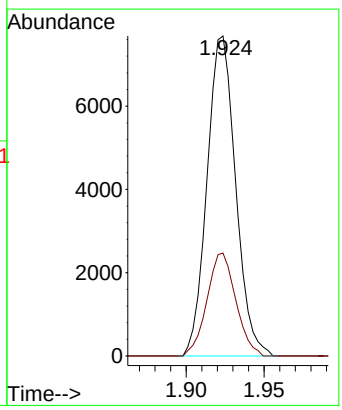
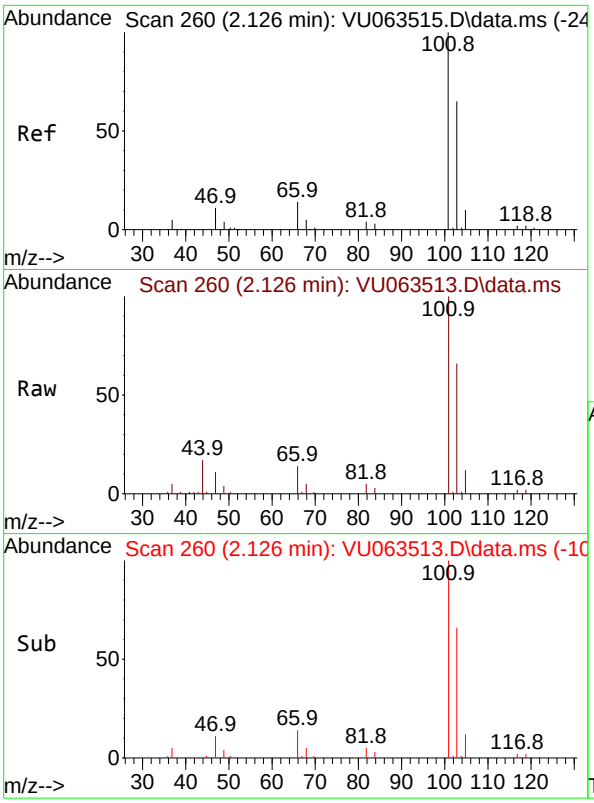


#6
Chloroethane
Concen: 1.885 ug/l
RT: 1.924 min Scan# 197
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 64 Resp: 9817

Ion	Ratio	Lower	Upper
64	100		
66	32.2	26.2	39.4

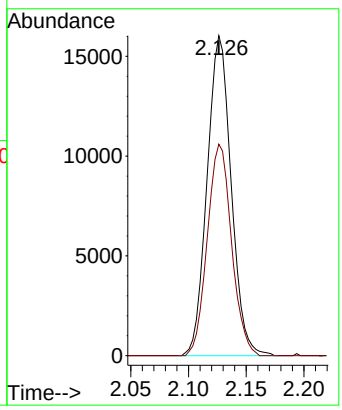




#7
Trichlorofluoromethane
Concen: 1.879 ug/l
RT: 2.126 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:101 Resp: 2327

Ion	Ratio	Lower	Upper
101	100		
103	66.1	52.2	78.4



Instrument :
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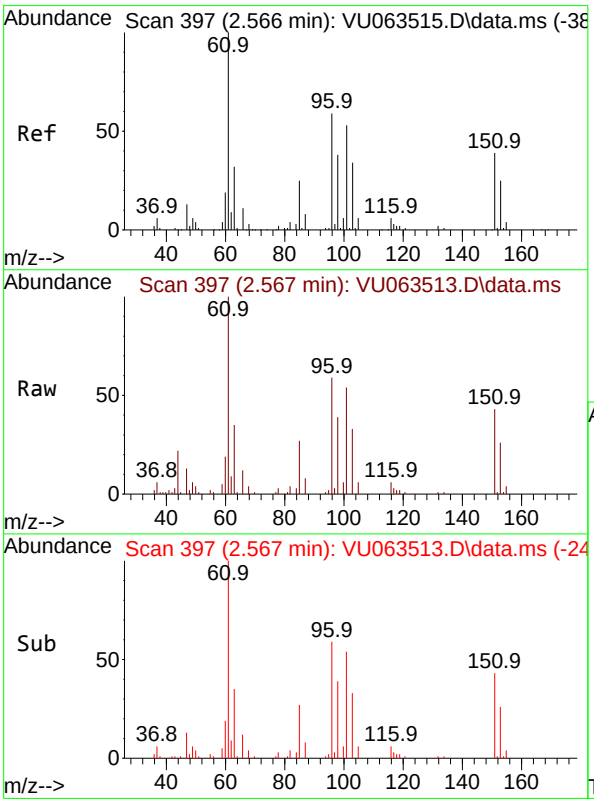
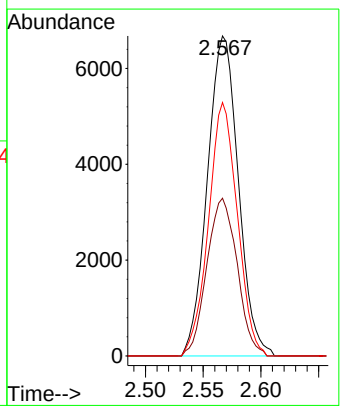
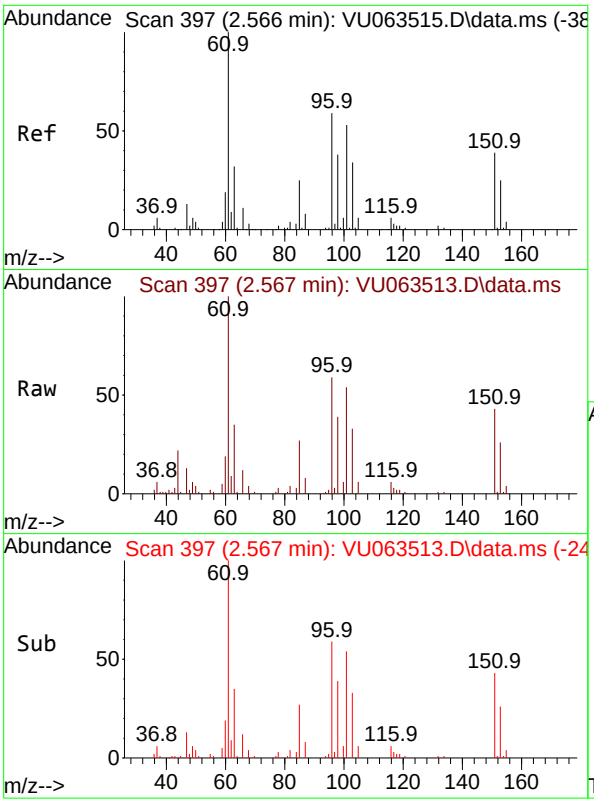


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.921 ug/l
RT: 2.567 min Scan# 397
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:101 Resp: 12436

Ion	Ratio	Lower	Upper
101	100		
85	48.4	37.8	56.6
151	74.0	59.2	88.8

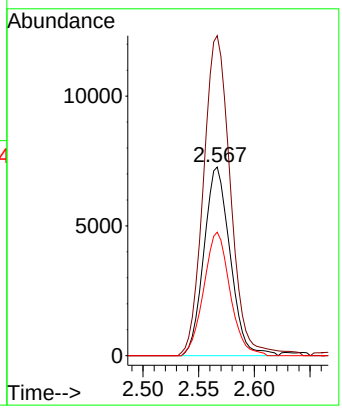




#9
1,1-Dichloroethene
Concen: 1.856 ug/l
RT: 2.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 96 Resp: 1190

Ion	Ratio	Lower	Upper
96	100		
61	169.6	0.0	504.3
98	65.5	0.0	126.8



Instrument :
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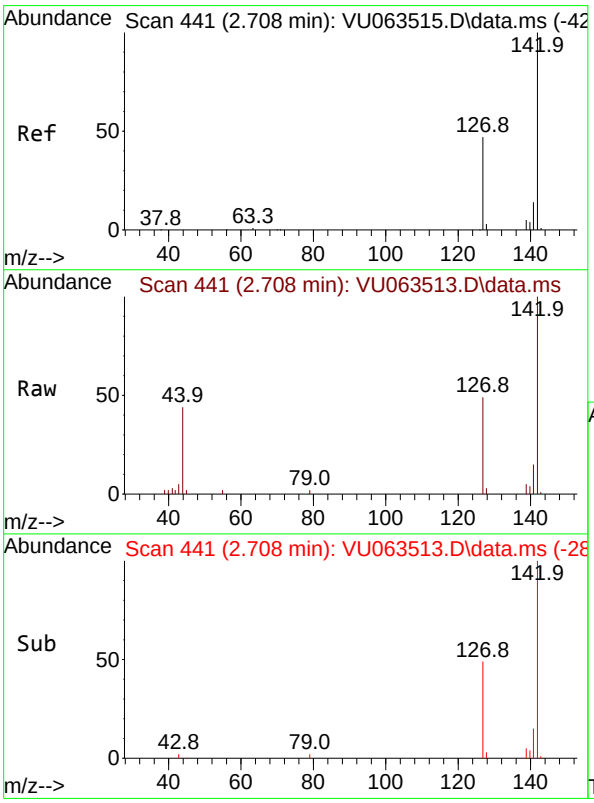
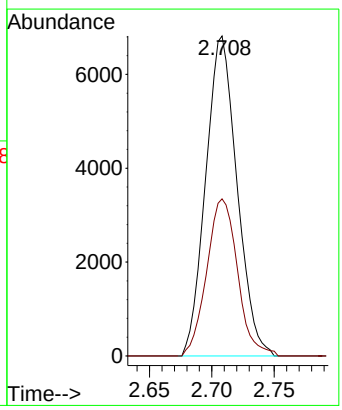
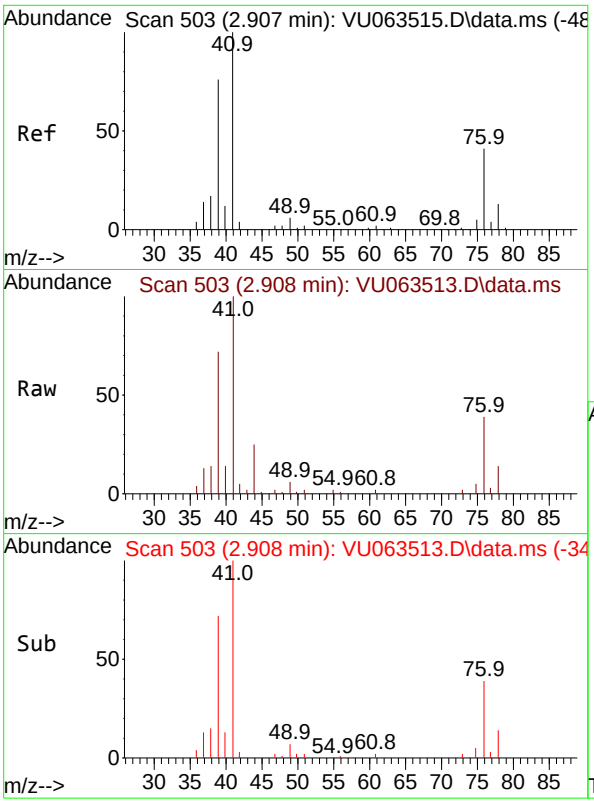


#10
Iodomethane
Concen: 2.044 ug/l
RT: 2.708 min Scan# 441
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:142 Resp: 11910

Ion	Ratio	Lower	Upper
142	100		
127	48.3	37.9	56.9

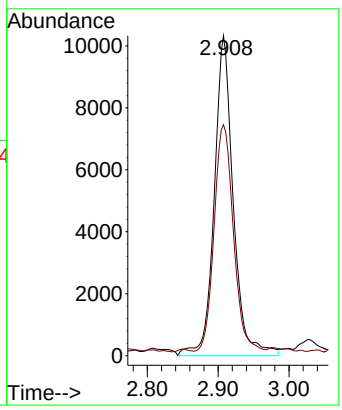




#11
Allyl Chloride
Concen: 2.077 ug/l
RT: 2.908 min Scan# 5
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 41 Resp: 1924

Ion	Ratio	Lower	Upper
41	100		
39	71.6	61.5	92.3



Instrument :
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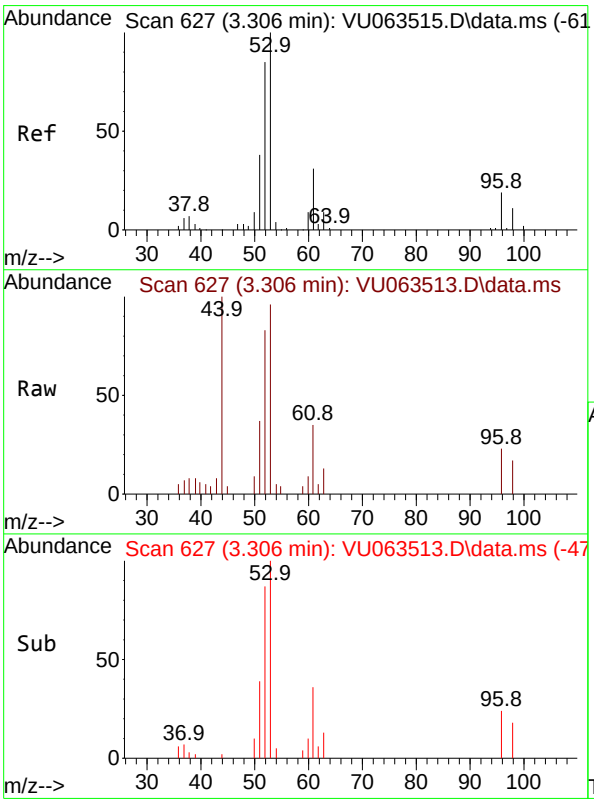
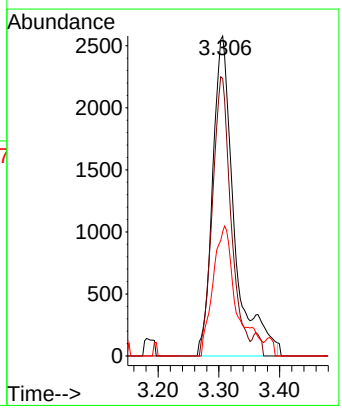
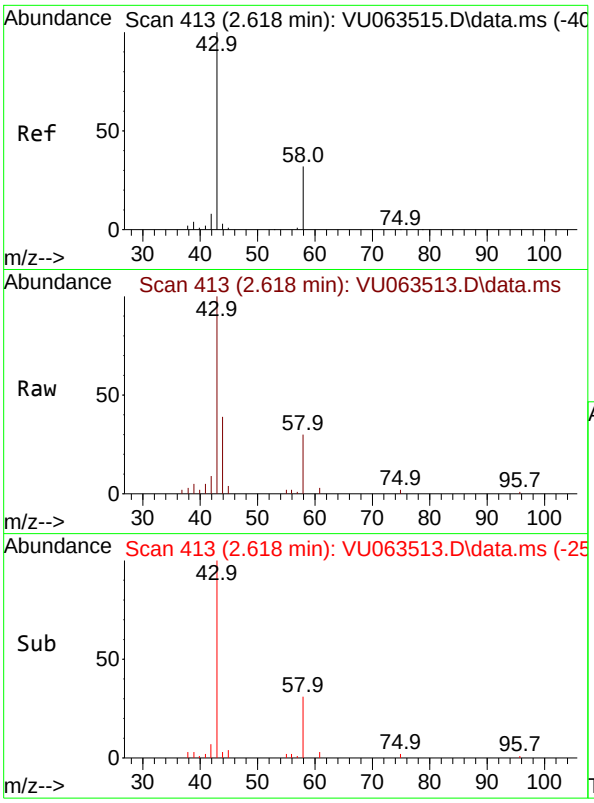


#12
Acrylonitrile
Concen: 3.971 ug/l m
RT: 3.306 min Scan# 627
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 53 Resp: 6375

Ion	Ratio	Lower	Upper
53	100		
52	74.6	64.3	96.5
51	44.0	27.8	41.8#

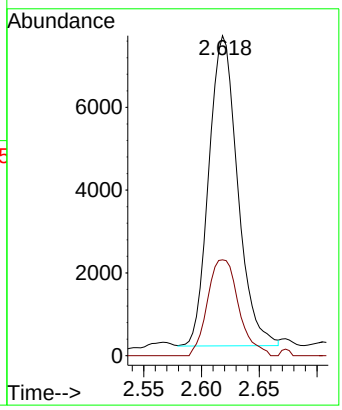




#13
Acetone
Concen: 10.102 ug/l
RT: 2.618 min Scan# 41
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 43 Resp: 1298

Ion	Ratio	Lower	Upper
43	100		
58	30.9	25.4	38.0



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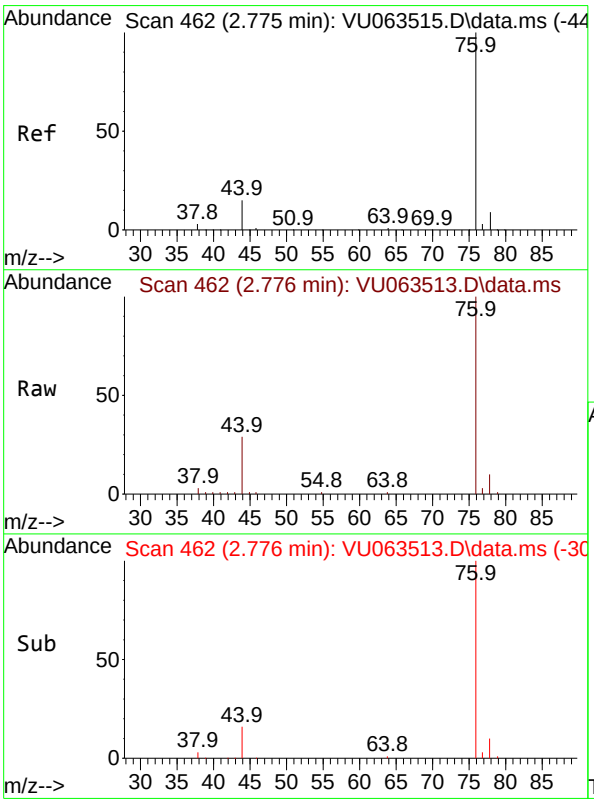
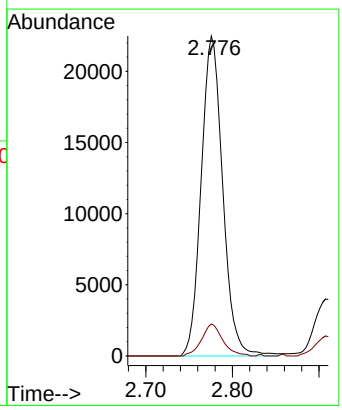
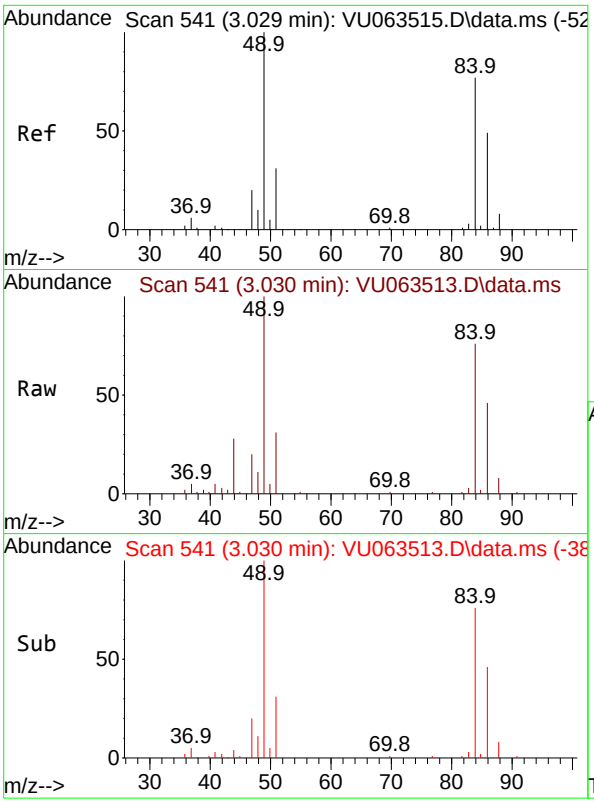


#14
Carbon Disulfide
Concen: 1.874 ug/l
RT: 2.776 min Scan# 462
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 76 Resp: 38838

Ion	Ratio	Lower	Upper
76	100		
78	10.0	7.0	10.6

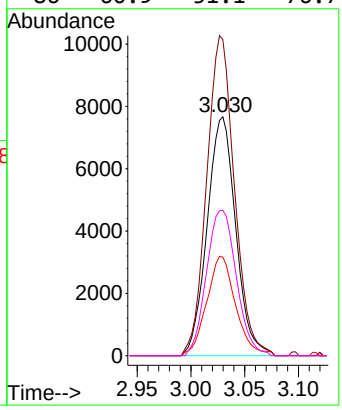




#15
Methylene Chloride
Concen: 1.878 ug/l
RT: 3.030 min Scan# 54
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 84 Resp: 1419

Ion	Ratio	Lower	Upper
84	100		
49	132.3	103.8	155.8
51	41.2	0.0	80.4
86	60.9	51.1	76.7



Instrument :
MSVOA_U
ClientSampleId :
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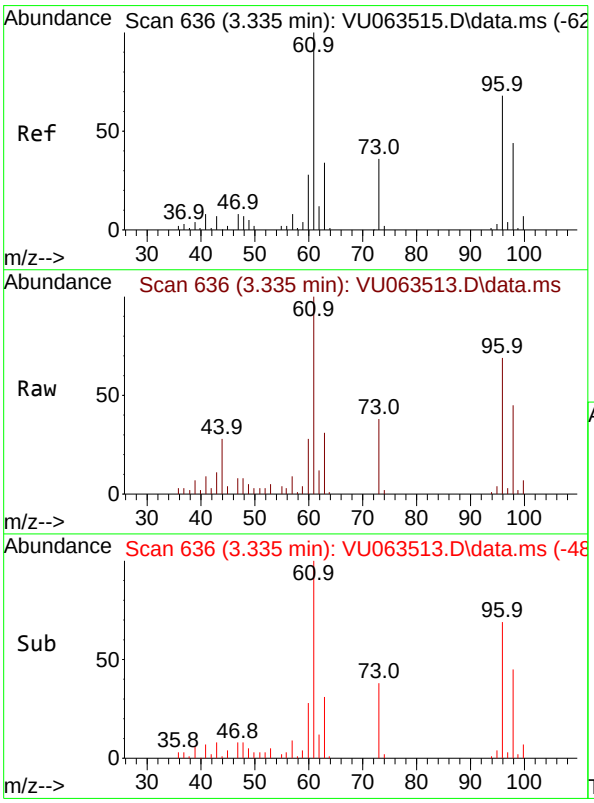
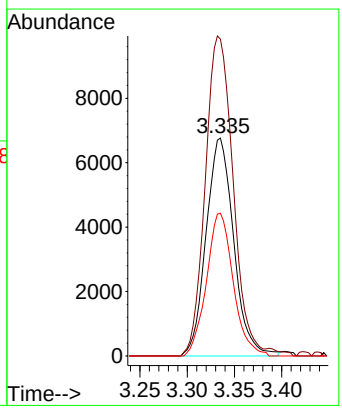
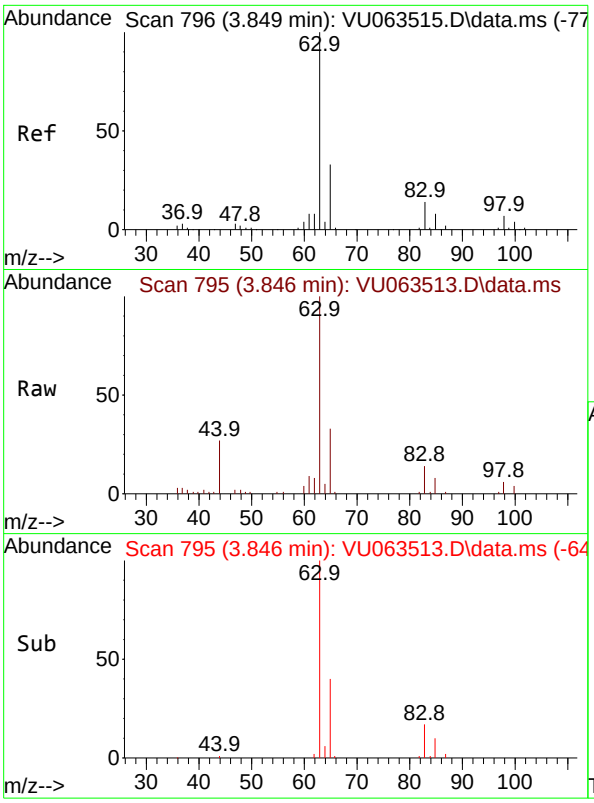


#16
trans-1,2-Dichloroethene
Concen: 1.887 ug/l
RT: 3.335 min Scan# 636
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 96 Resp: 13749

Ion	Ratio	Lower	Upper
96	100		
61	145.4	117.2	175.8
98	65.5	51.4	77.2

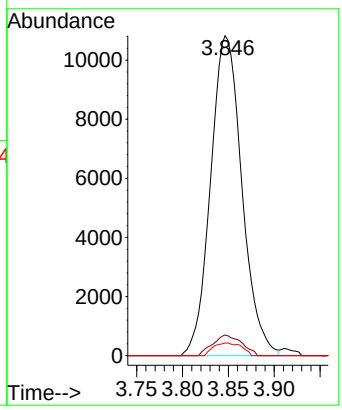




#17
1,1-Dichloroethane
Concen: 1.904 ug/l
RT: 3.846 min Scan# 7
Delta R.T. -0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 63 Resp: 2572

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.4	10.2
100	3.9	2.1	6.2



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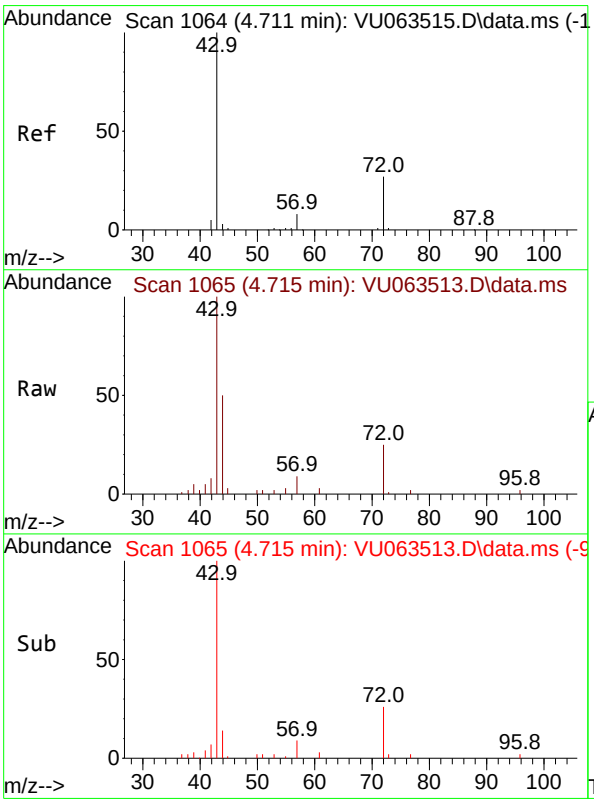
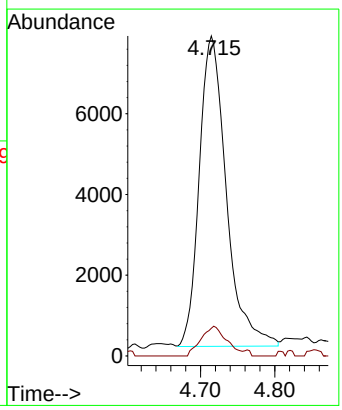
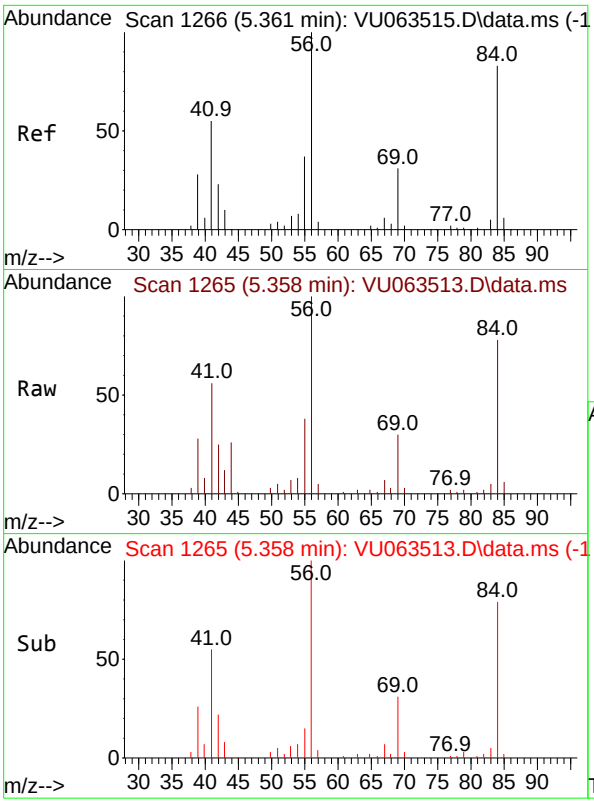


#18
2-Butanone
Concen: 9.792 ug/l
RT: 4.715 min Scan# 1065
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 43 Resp: 19497

Ion	Ratio	Lower	Upper
43	100		
57	8.9	0.0	16.4

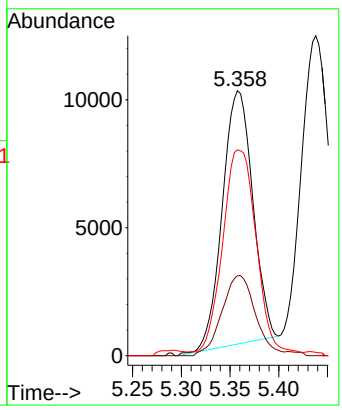




#19
Cyclohexane
Concen: 1.881 ug/l
RT: 5.358 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 56 Resp: 2151

Ion	Ratio	Lower	Upper
56	100		
69	32.7	26.6	39.8
84	86.3	71.0	106.4



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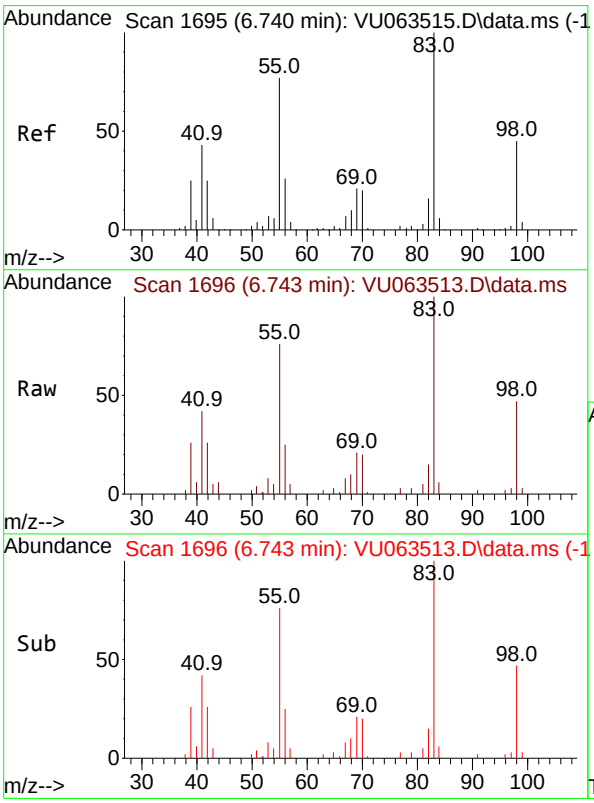
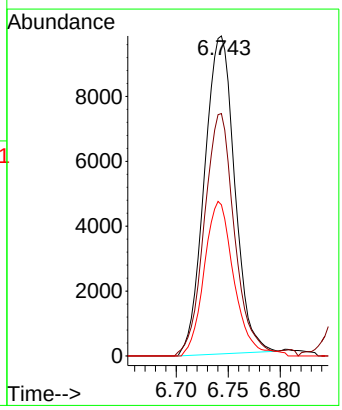
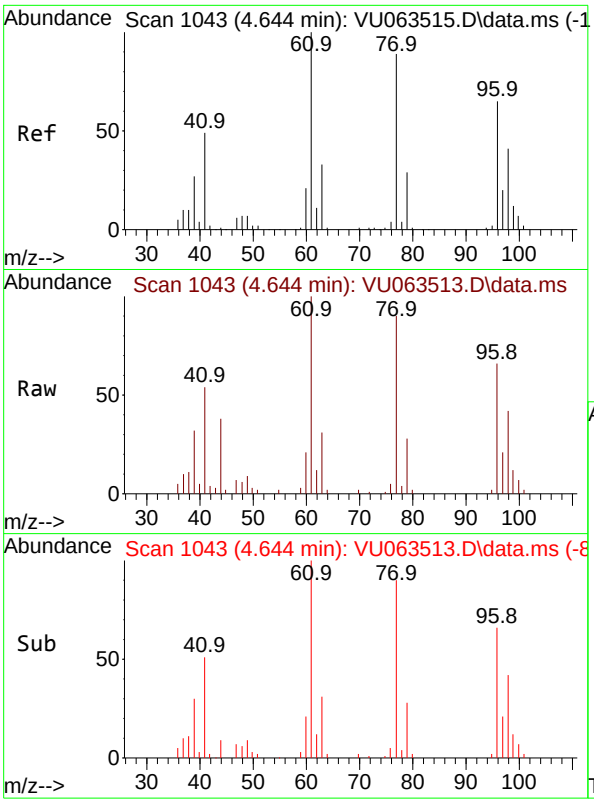


#20
Methylcyclohexane
Concen: 1.786 ug/l
RT: 6.743 min Scan# 1696
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 83 Resp: 19848

Ion	Ratio	Lower	Upper
83	100		
55	74.1	60.6	90.8
98	47.9	35.8	53.8

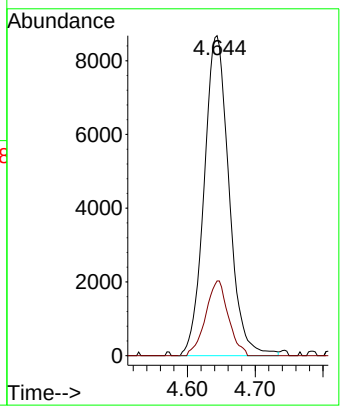




#21
2,2-Dichloropropane
Concen: 1.922 ug/l
RT: 4.644 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 77 Resp: 2209

Ion	Ratio	Lower	Upper
77	100		
97	21.4	17.8	26.8



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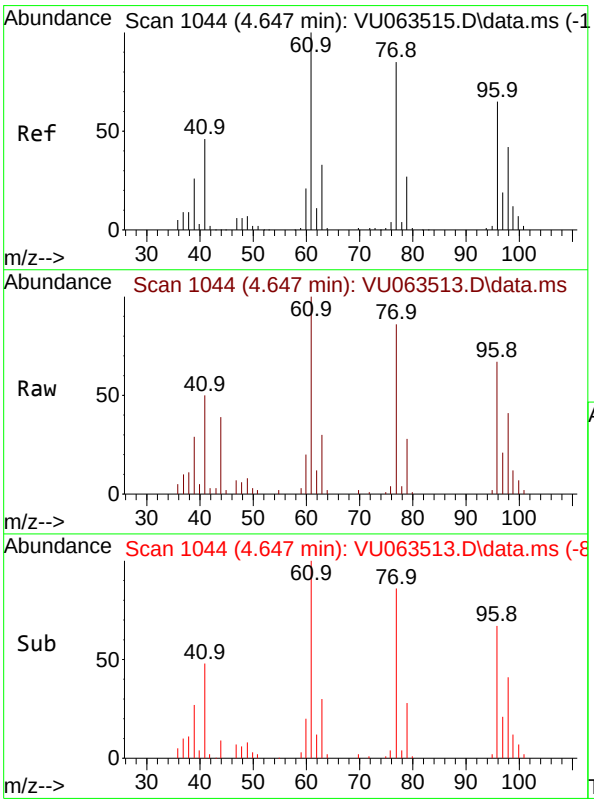
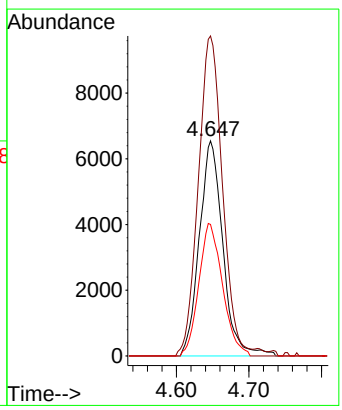
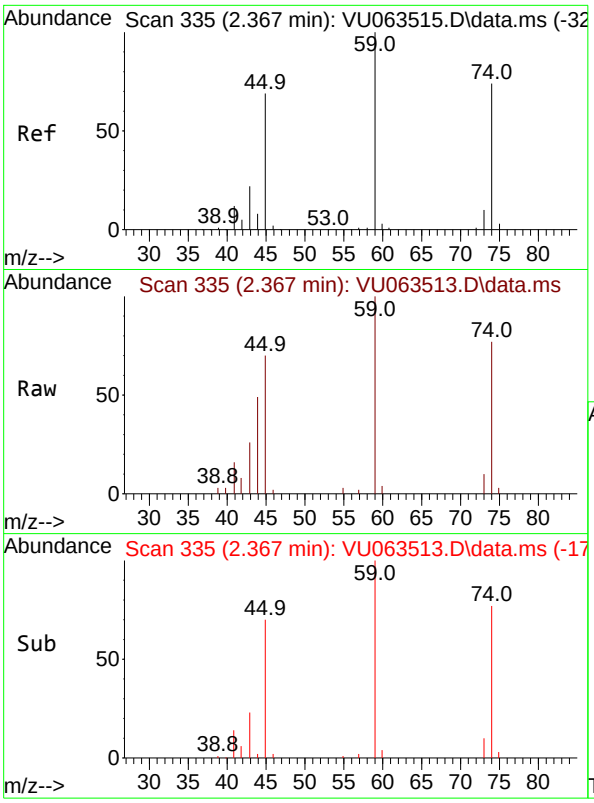


#22
cis-1,2-Dichloroethene
Concen: 1.864 ug/l
RT: 4.647 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 96 Resp: 14739

Ion	Ratio	Lower	Upper
96	100		
61	152.6	0.0	384.7
98	62.1	32.1	96.3

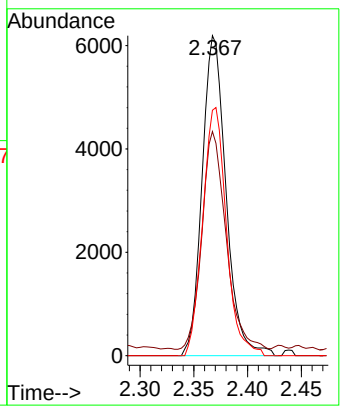




#23
Diethyl Ether
Concen: 1.962 ug/l
RT: 2.367 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 59 Resp: 959

Ion	Ratio	Lower	Upper
59	100		
45	68.4	55.1	82.7
74	76.9	58.2	87.4



Instrument :
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ClientSampleId :
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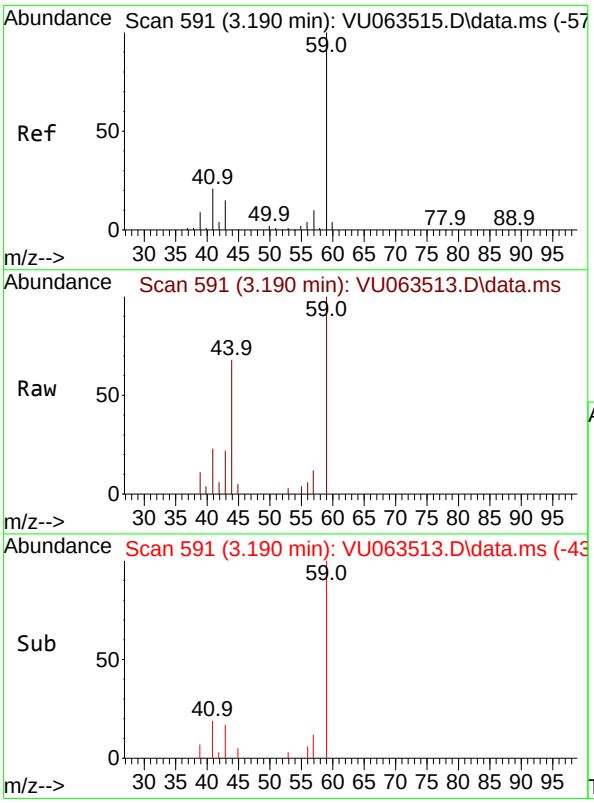
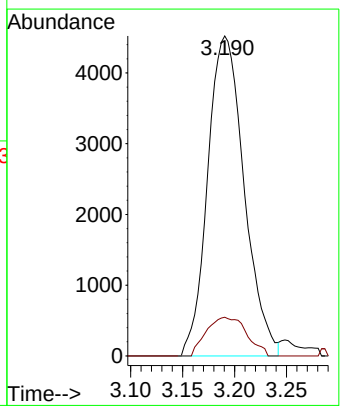
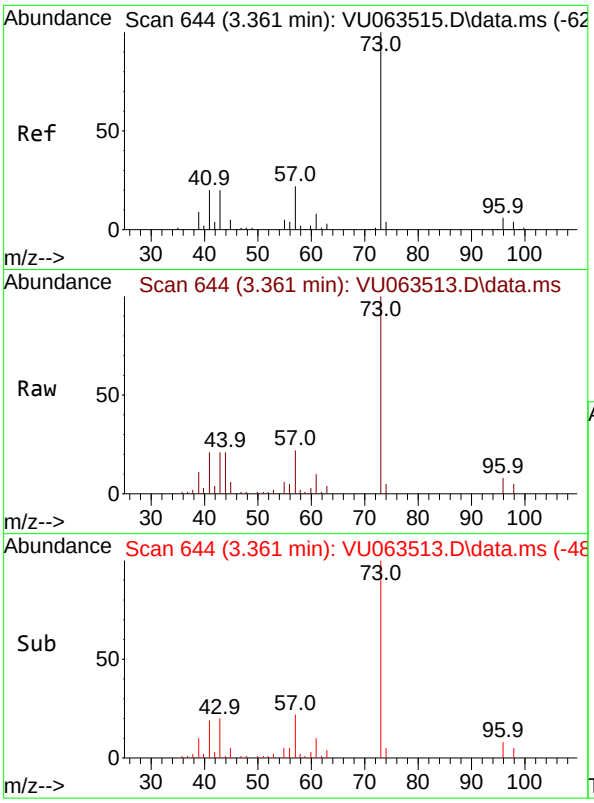


#24
tert-Butyl Alcohol
Concen: 18.698 ug/l
RT: 3.190 min Scan# 591
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 59 Resp: 11035

Ion	Ratio	Lower	Upper
59	100		
57	13.4	8.6	12.8#

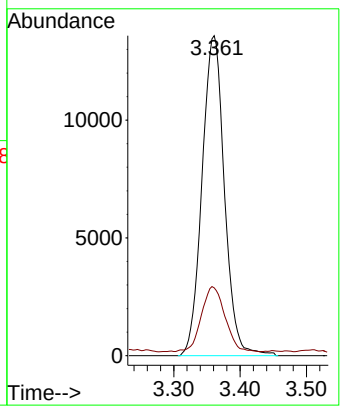




#25
Methyl tert-Butyl Ether
Concen: 1.906 ug/l
RT: 3.361 min Scan# 64
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 73 Resp: 3192

Ion	Ratio	Lower	Upper
73	100		
43	21.2	16.2	24.2



Instrument :
MSVOA_U
ClientSampleId :
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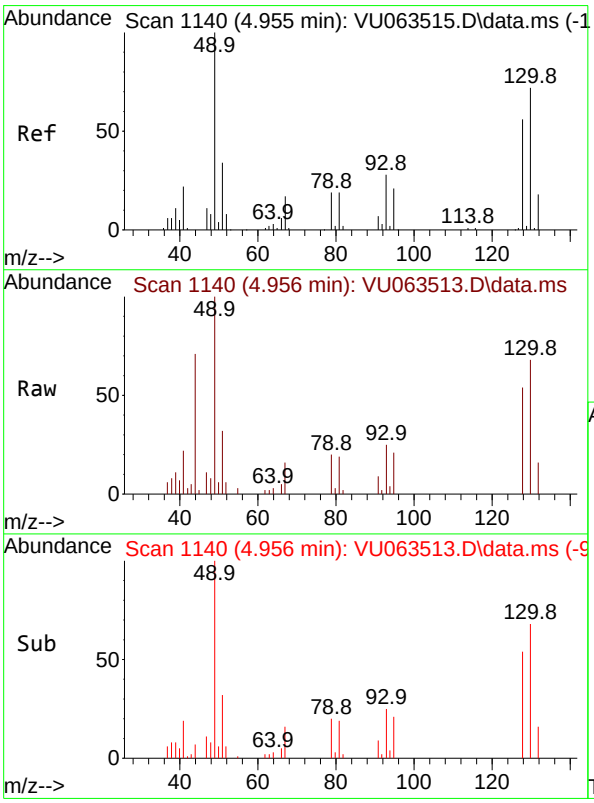
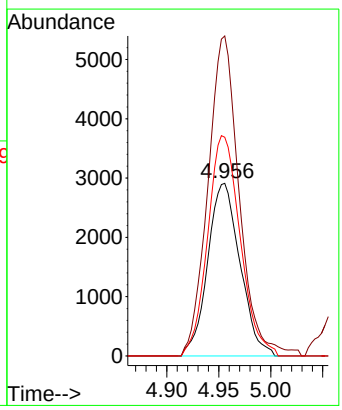
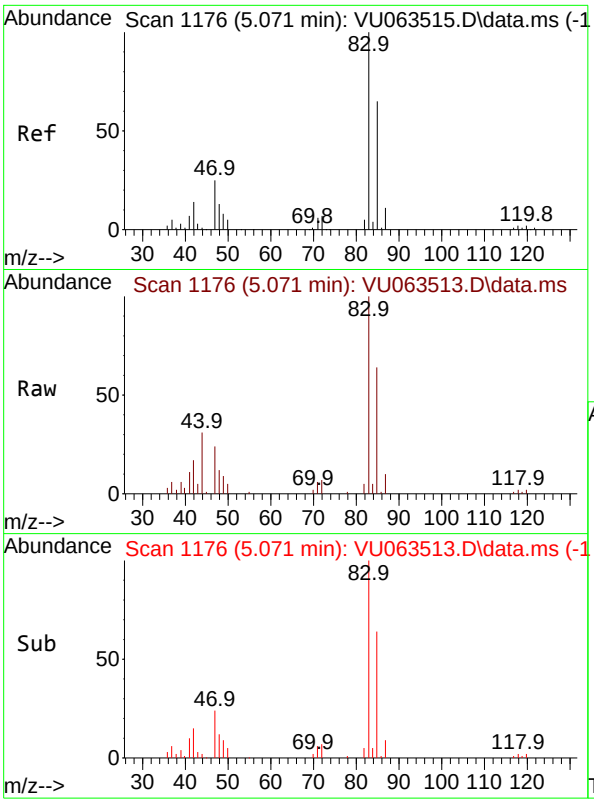


#26
Bromochloromethane
Concen: 1.908 ug/l
RT: 4.956 min Scan# 1140
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:128 Resp: 6299

Ion	Ratio	Lower	Upper
128	100		
49	179.5	0.0	340.8
130	128.5	100.5	150.7

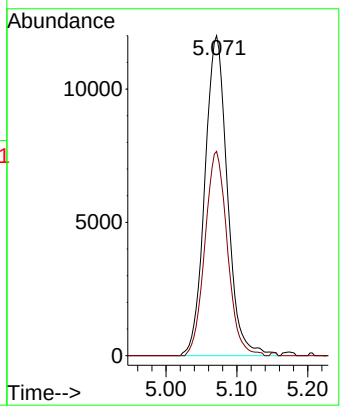




#27
Chloroform
Concen: 1.927 ug/l
RT: 5.071 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 83 Resp: 2656

Ion	Ratio	Lower	Upper
83	100		
85	63.9	0.0	130.0



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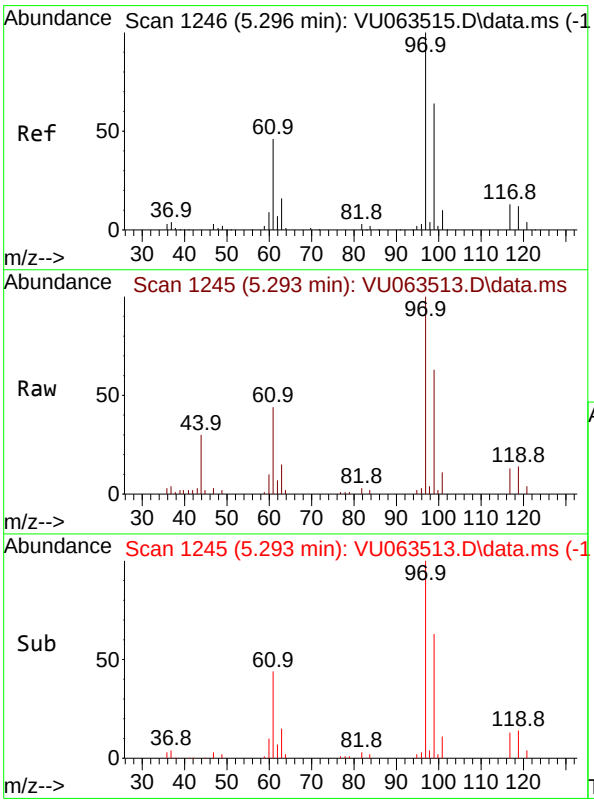
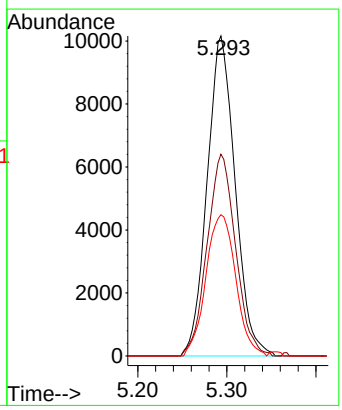
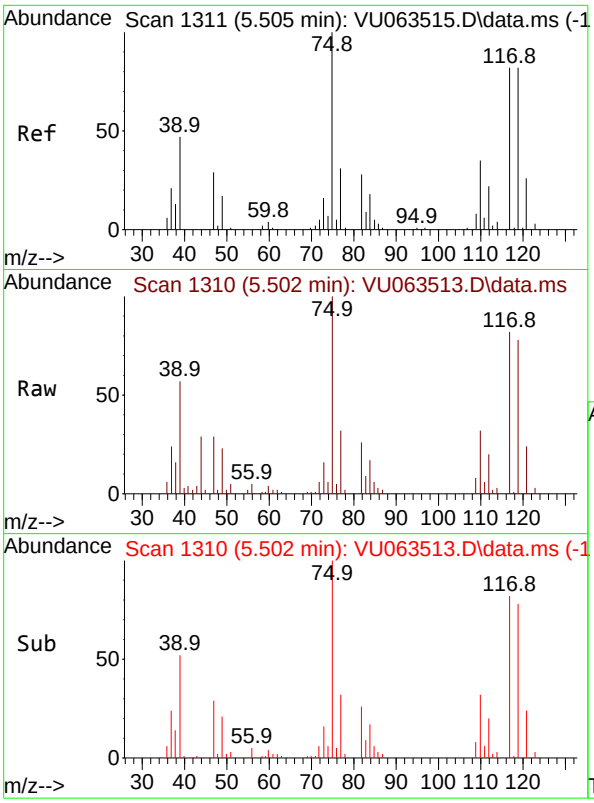


#28
1,1,1-Trichloroethane
Concen: 1.895 ug/l
RT: 5.293 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 97 Resp: 22170

Ion	Ratio	Lower	Upper
97	100		
99	64.2	31.8	95.3
61	47.0	23.3	69.9

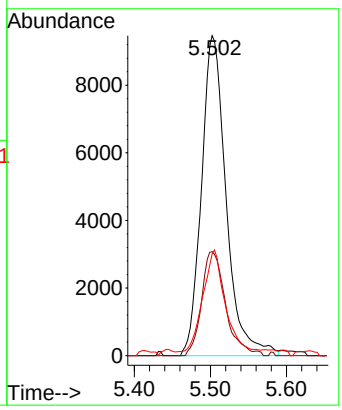




#29
1,1-Dichloropropene
Concen: 1.970 ug/l
RT: 5.502 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 75 Resp: 2134

Ion	Ratio	Lower	Upper
75	100		
110	31.6	17.8	53.4
77	29.0	24.6	37.0



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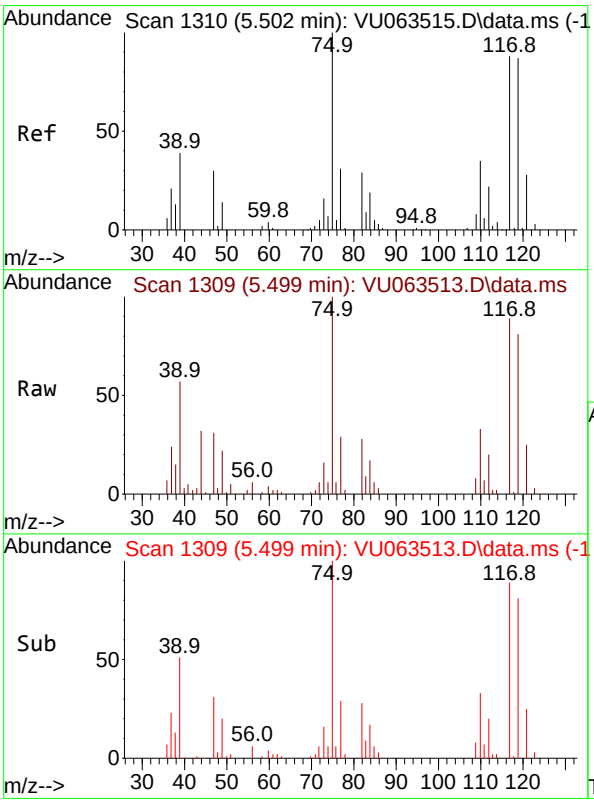
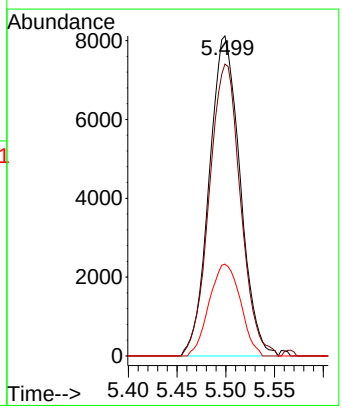
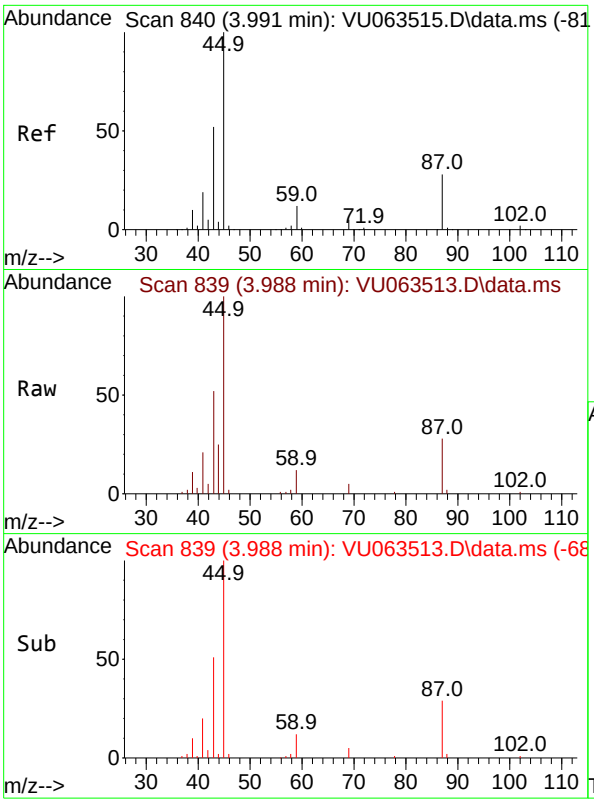


#30
Carbon Tetrachloride
Concen: 1.900 ug/l
RT: 5.499 min Scan# 1309
Delta R.T. -0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:117 Resp: 17885

Ion	Ratio	Lower	Upper
117	100		
119	91.2	79.2	118.8
121	28.7	25.5	38.3

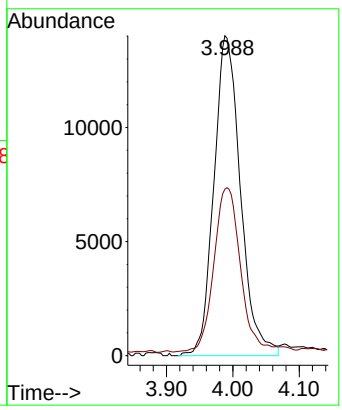




#31
Isopropyl Ether
Concen: 1.914 ug/l
RT: 3.988 min Scan# 8
Delta R.T. -0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 45 Resp: 3901

Ion	Ratio	Lower	Upper
45	100		
43	52.1	25.7	77.0



Instrument :
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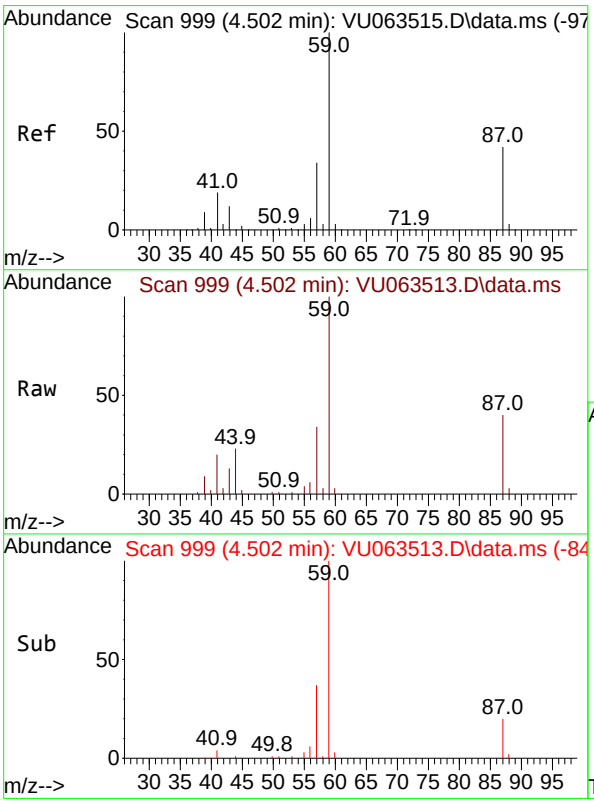
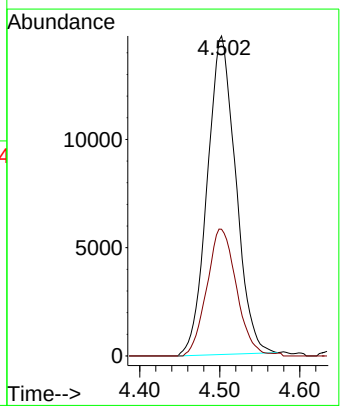
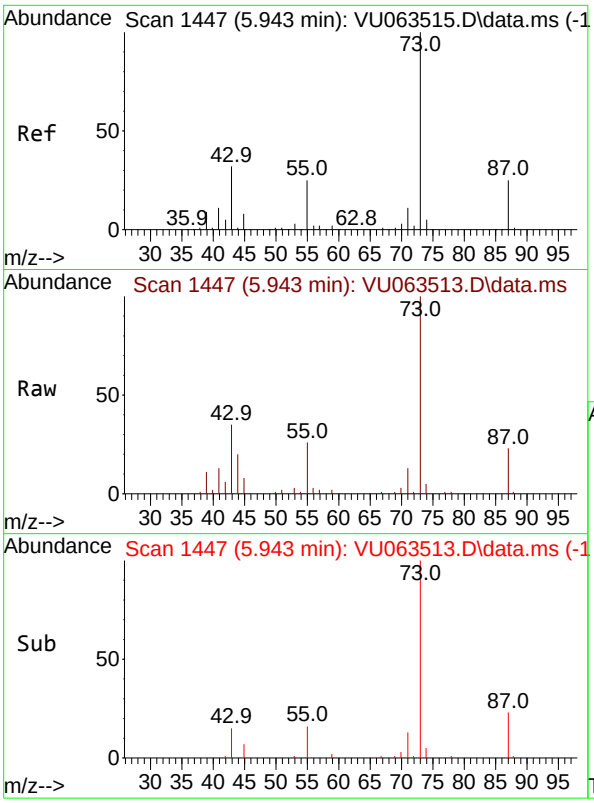


#32
Ethyl-t-butyl ether
Concen: 1.926 ug/l
RT: 4.502 min Scan# 999
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 59 Resp: 36341

Ion	Ratio	Lower	Upper
59	100		
87	40.5	32.6	49.0

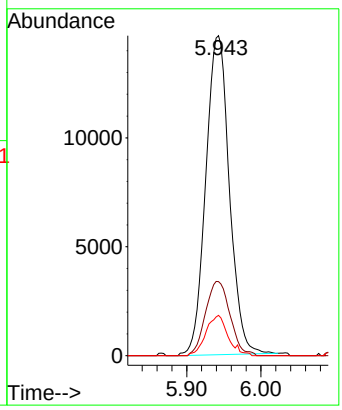




#33
Tert-Amyl methyl ether
Concen: 1.977 ug/l
RT: 5.943 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 73 Resp: 3236

Ion	Ratio	Lower	Upper
73	100		
87	24.1	19.4	29.2
71	11.8	8.9	13.3



Instrument :
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ClientSampleId :
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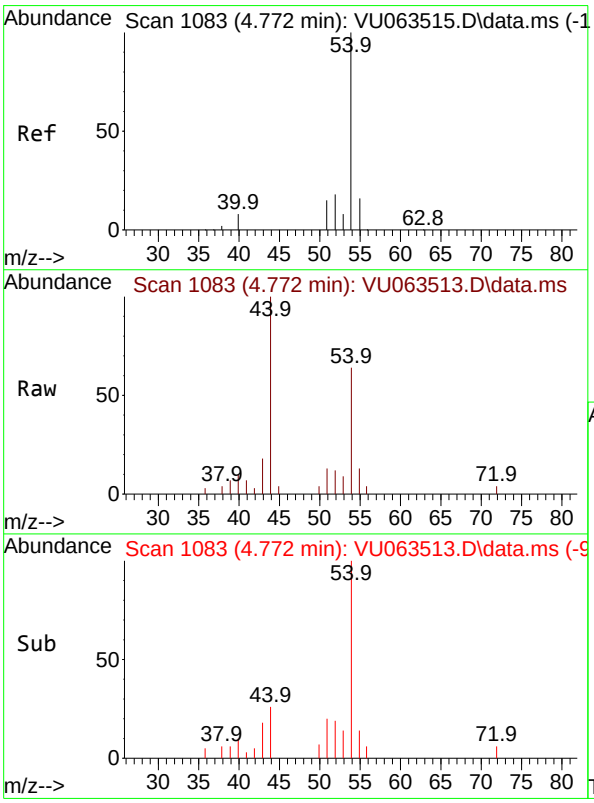
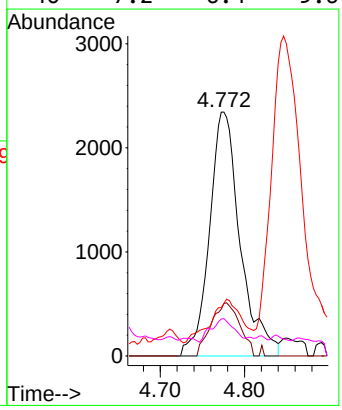
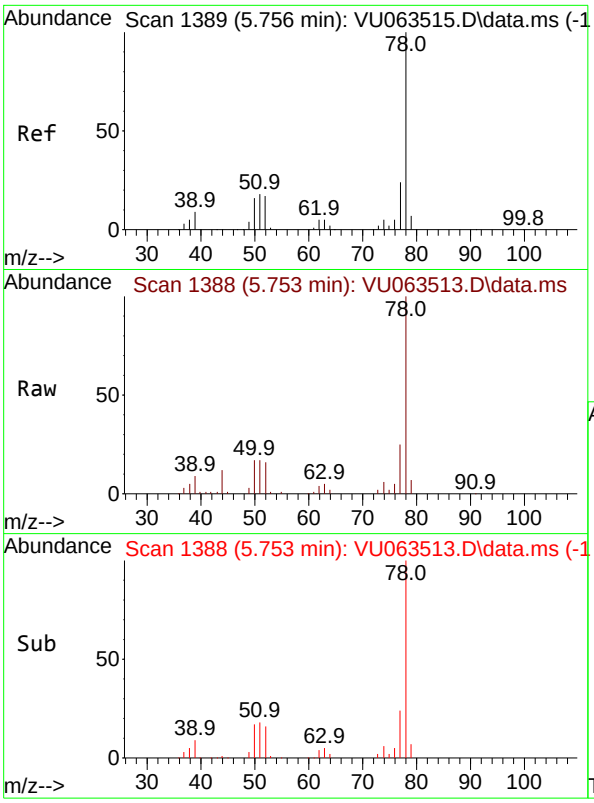


#34
Propionitrile
Concen: 9.762 ug/l
RT: 4.772 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 54 Resp: 5922

Ion	Ratio	Lower	Upper
54	100		
52	20.4	17.0	25.4
55	17.8	13.6	20.4
40	7.2	6.4	9.6

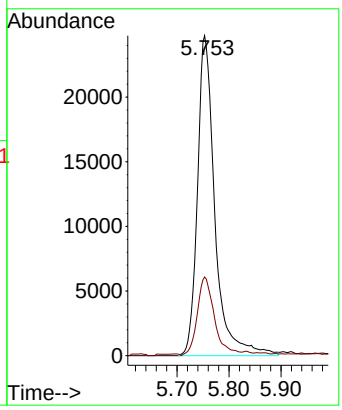




#35
Benzene
Concen: 1.977 ug/l
RT: 5.753 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 78 Resp: 5756

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.4	29.2



Instrument :
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ClientSampleId :
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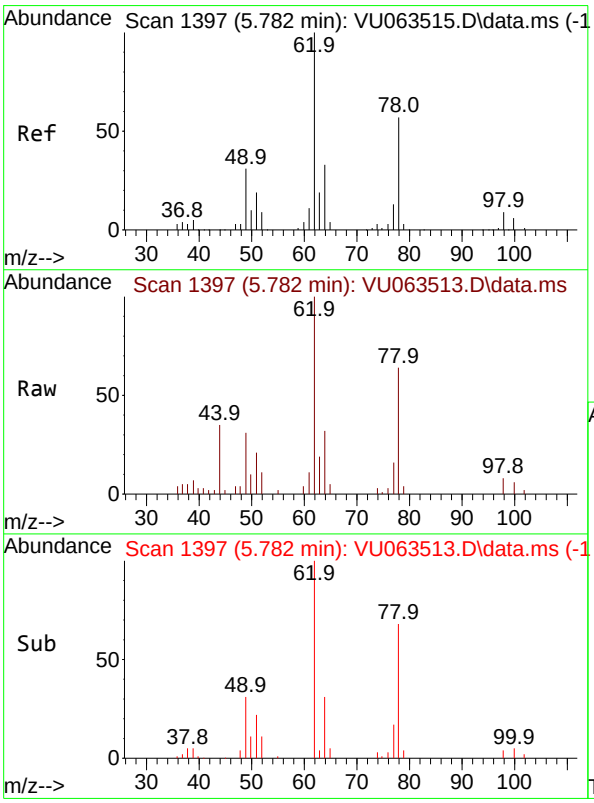
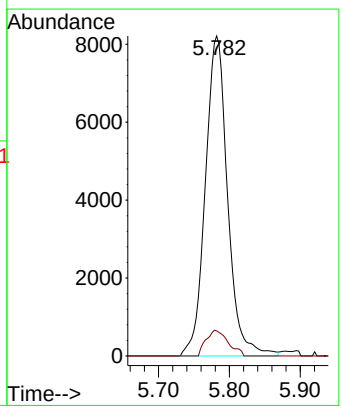
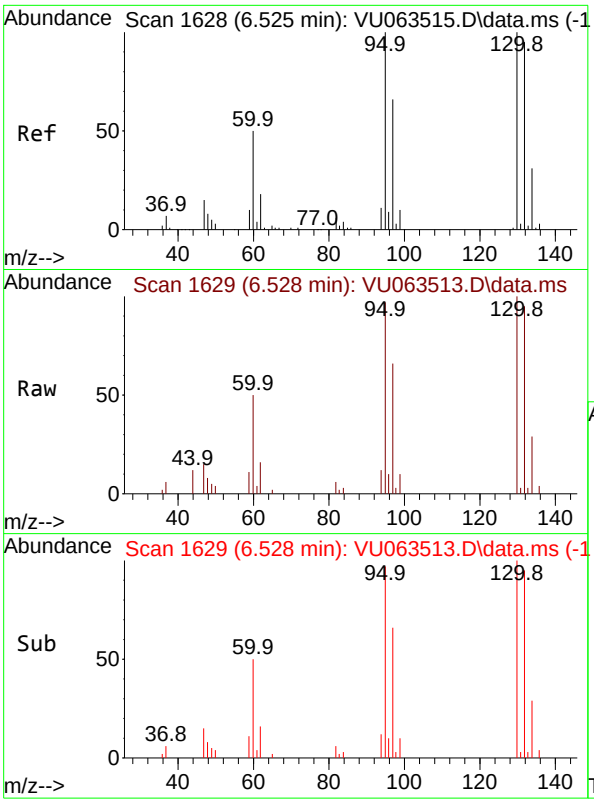


#36
1,2-Dichloroethane
Concen: 1.982 ug/l
RT: 5.782 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 62 Resp: 17934

Ion	Ratio	Lower	Upper
62	100		
98	8.0	6.4	9.6

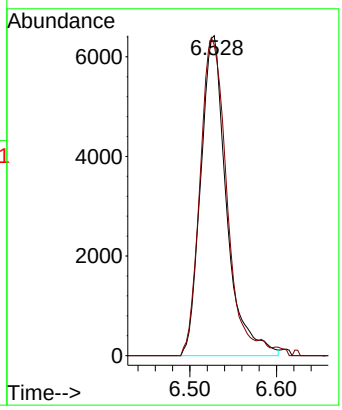




#37
Trichloroethene
Concen: 1.790 ug/l
RT: 6.528 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:130 Resp: 1329

Ion	Ratio	Lower	Upper
130	100		
95	97.1	80.3	120.5



Instrument :
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ClientSampleId :
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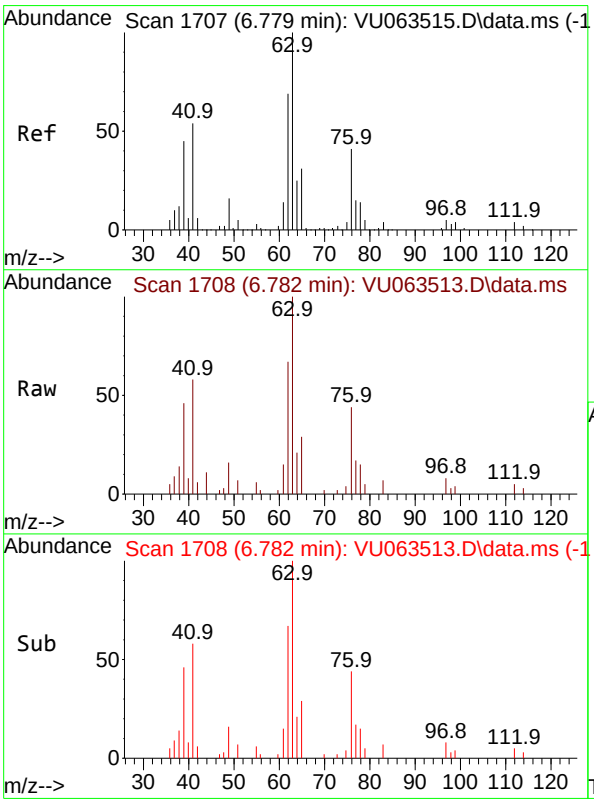
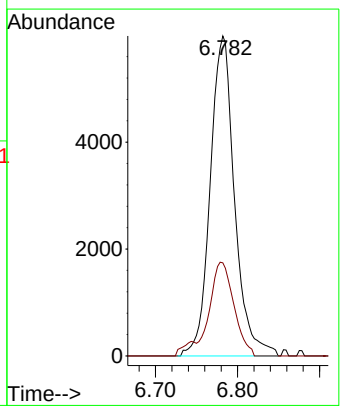
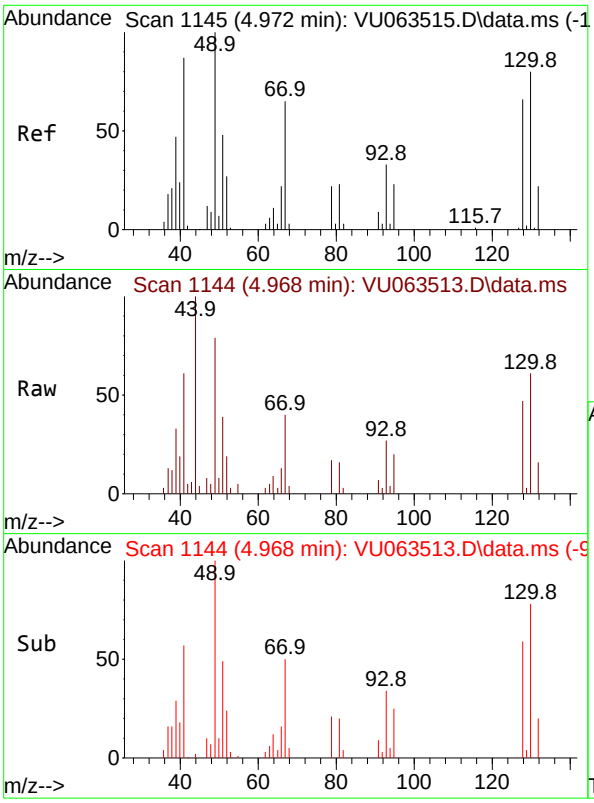


#38
1,2-Dichloropropane
Concen: 1.818 ug/l
RT: 6.782 min Scan# 1708
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 63 Resp: 12386

Ion	Ratio	Lower	Upper
63	100		
65	29.1	24.6	36.8

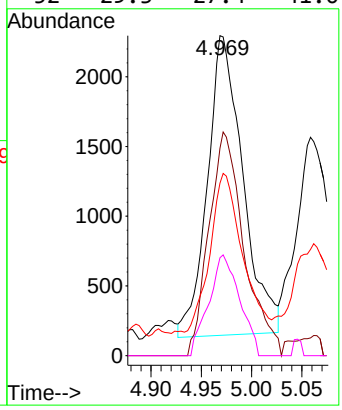




#39
Methacrylonitrile
Concen: 1.982 ug/l
RT: 4.968 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 41 Resp: 527

Ion	Ratio	Lower	Upper
41	100		
67	73.7	62.7	94.1
39	47.6	43.1	64.7
52	29.3	27.4	41.0



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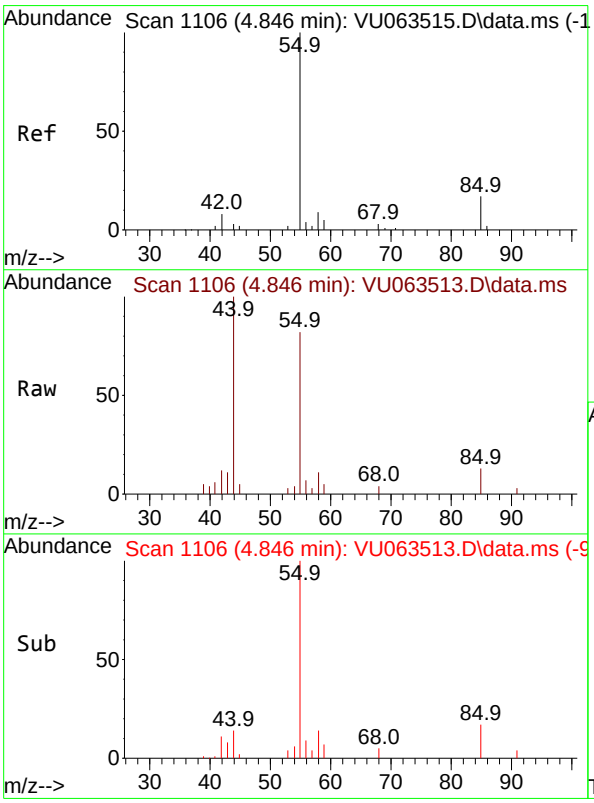
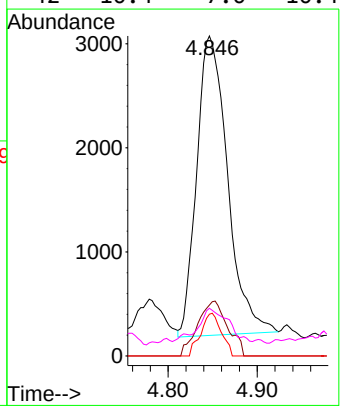
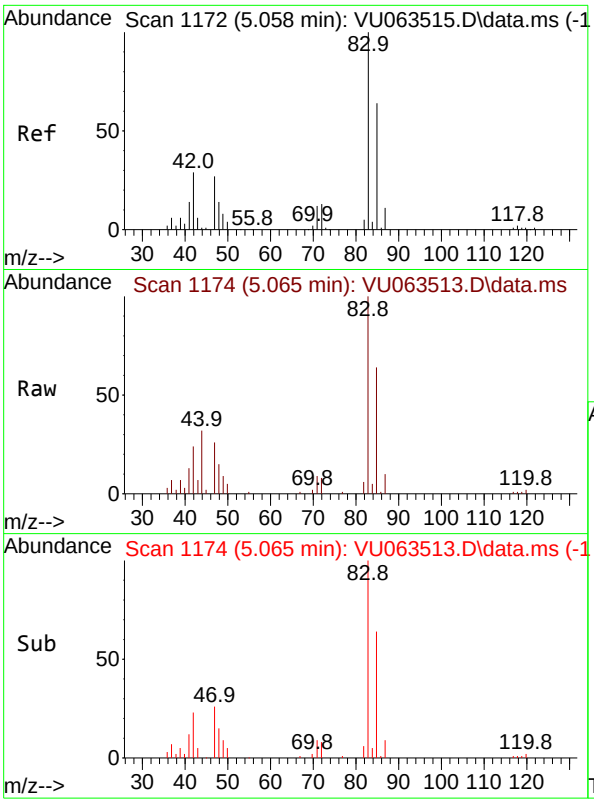


#40
Methyl acrylate
Concen: 1.755 ug/l
RT: 4.846 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 55 Resp: 6918

Ion	Ratio	Lower	Upper
55	100		
85	17.8	12.8	19.2
58	9.5	7.0	10.4
42	10.4	7.0	10.4

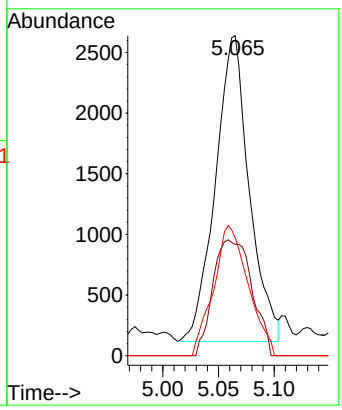




#41
Tetrahydrofuran
Concen: 3.757 ug/l
RT: 5.065 min Scan# 11
Delta R.T. 0.007 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 42 Resp: 533

Ion	Ratio	Lower	Upper
42	100		
72	43.7	39.2	58.8
71	43.7	34.8	52.2



Instrument :
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ClientSampleId :
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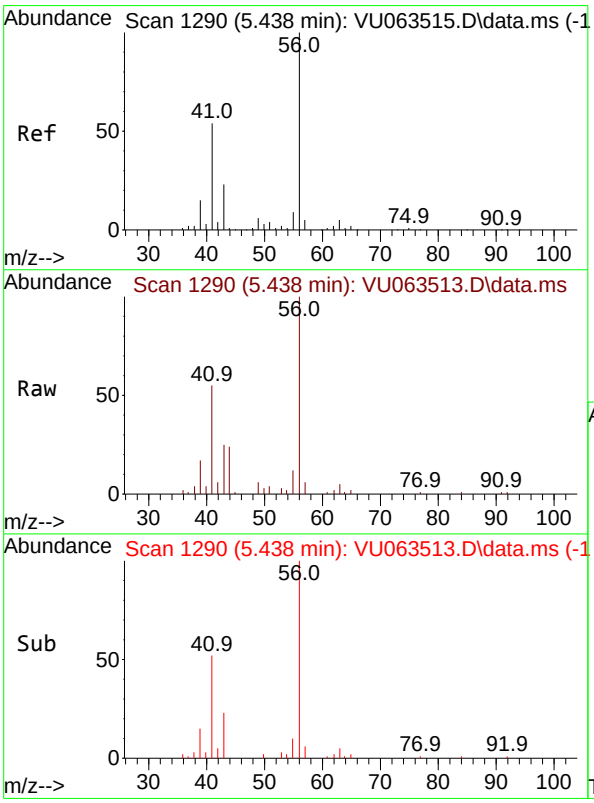
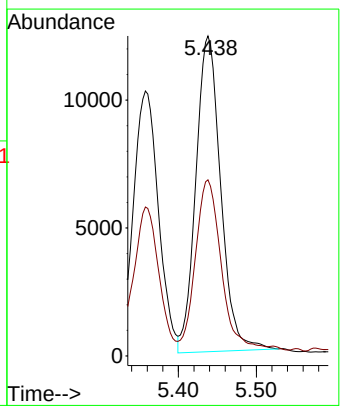
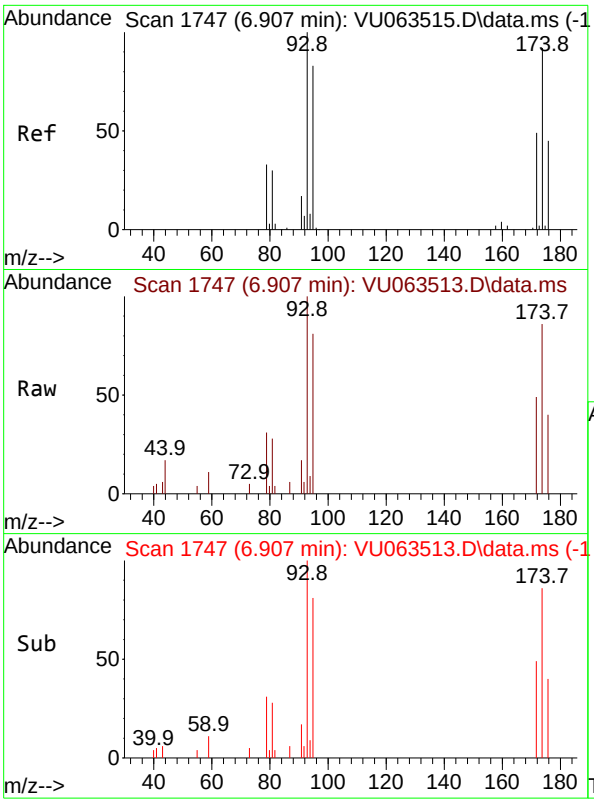


#42
1-Chlorobutane
Concen: 1.896 ug/l
RT: 5.438 min Scan# 1290
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 56 Resp: 27320

Ion	Ratio	Lower	Upper
56	100		
41	53.4	26.7	80.0

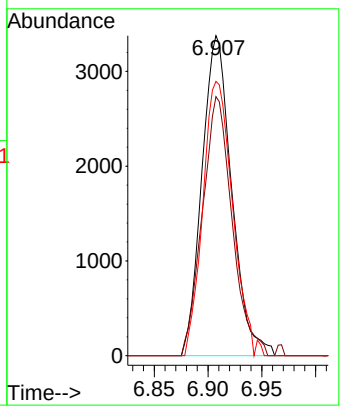




#43
Dibromomethane
Concen: 1.840 ug/l
RT: 6.907 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 93 Resp: 649

Ion	Ratio	Lower	Upper
93	100		
95	81.0	67.9	101.9
174	85.7	74.6	111.8



Instrument :
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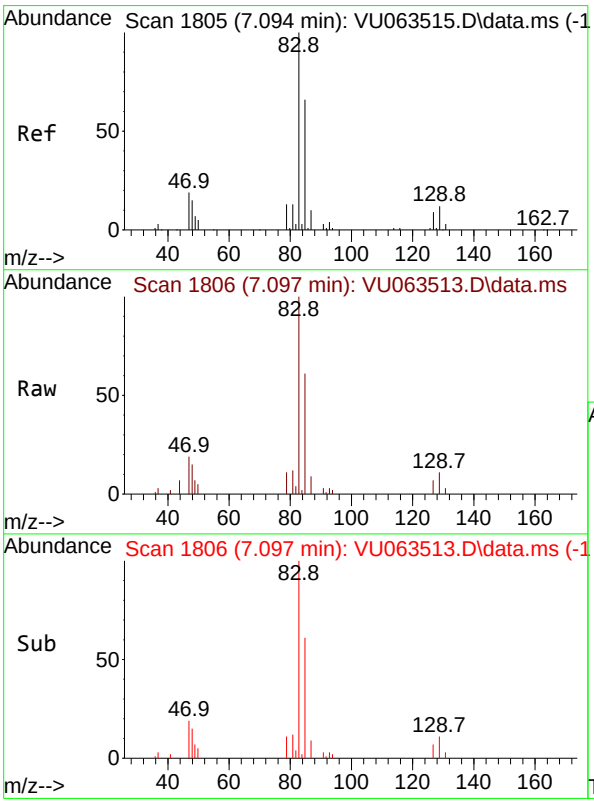
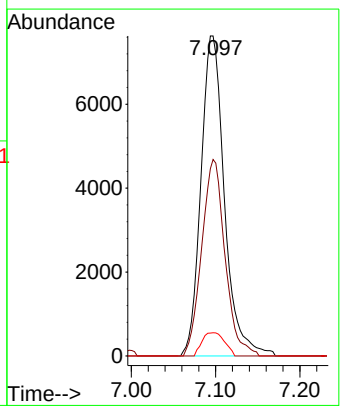
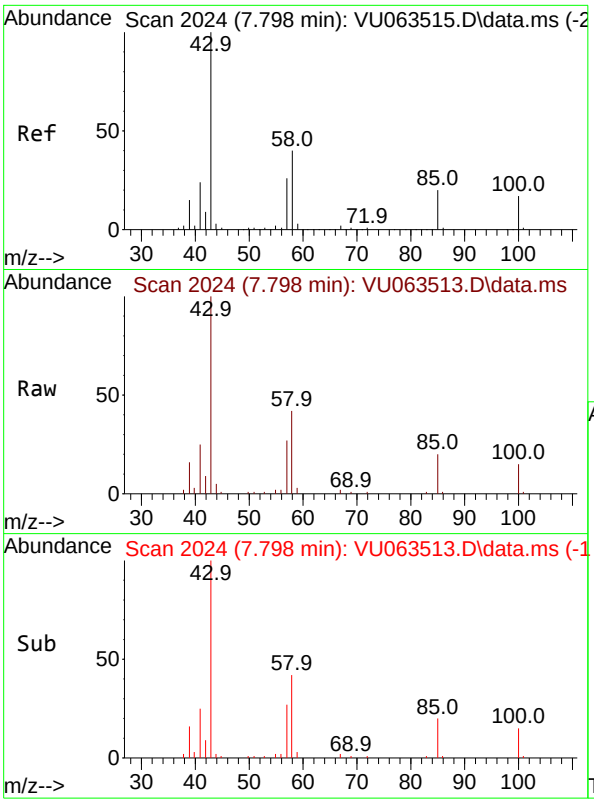


#44
Bromodichloromethane
Concen: 1.862 ug/l
RT: 7.097 min Scan# 1806
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 83 Resp: 14822

Ion	Ratio	Lower	Upper
83	100		
85	61.4	52.7	79.1
127	7.2	8.1	12.1#

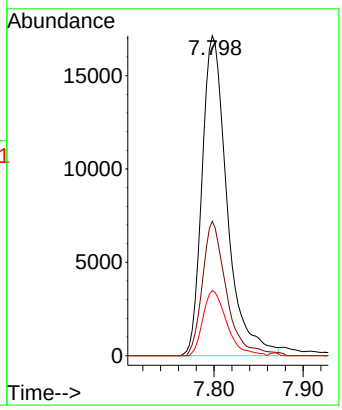




#45
4-Methyl-2-Pentanone
Concen: 9.233 ug/l
RT: 7.798 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 43 Resp: 3359

Ion	Ratio	Lower	Upper
43	100		
58	40.2	20.0	60.0
85	19.3	15.4	23.0



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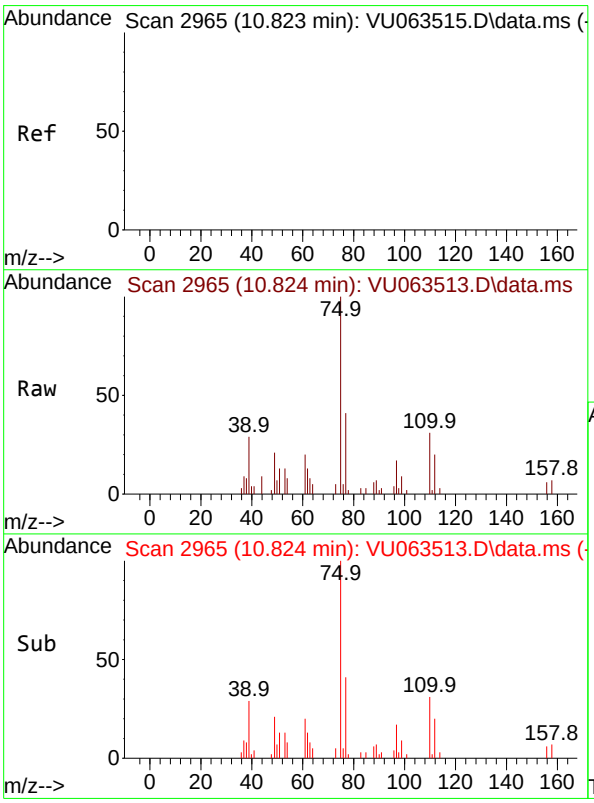
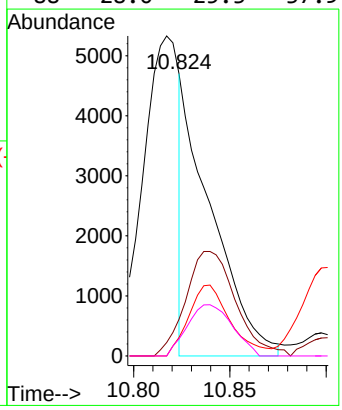
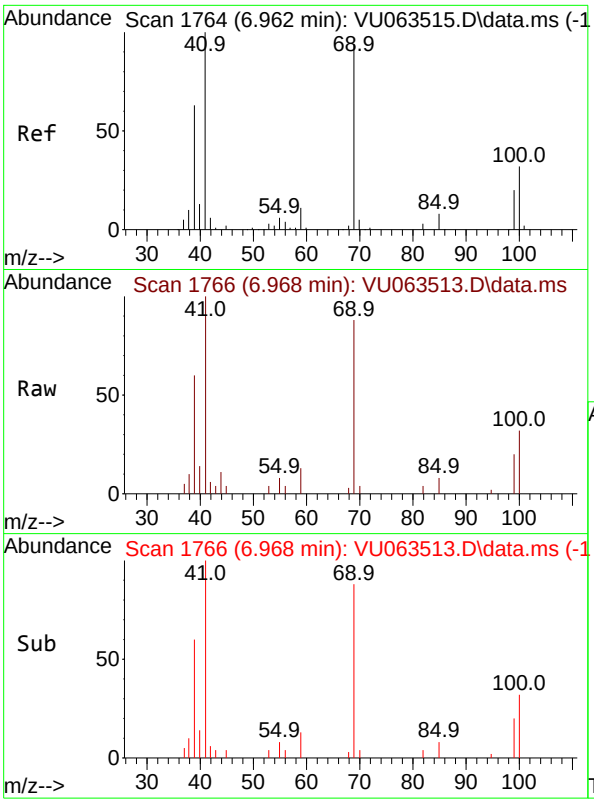


#46
t-1,4-Dichloro-2-butene
Concen: 3.841 ug/l m
RT: 10.824 min Scan# 2965
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 75 Resp: 4957

Ion	Ratio	Lower	Upper
75	100		
53	63.2	48.4	72.6
89	35.9	30.6	45.8
88	28.0	25.3	37.9

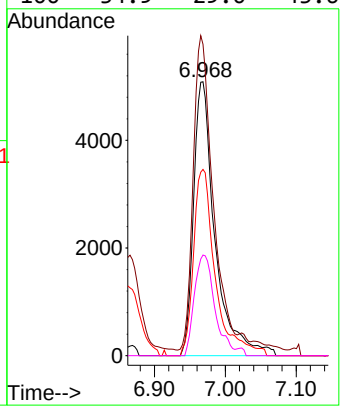




#47
Methyl methacrylate
Concen: 3.613 ug/l
RT: 6.968 min Scan# 1
Delta R.T. 0.007 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 69 Resp: 1071

Ion	Ratio	Lower	Upper
69	100		
41	104.8	0.0	224.0
39	69.0	55.3	82.9
100	34.9	29.0	43.6



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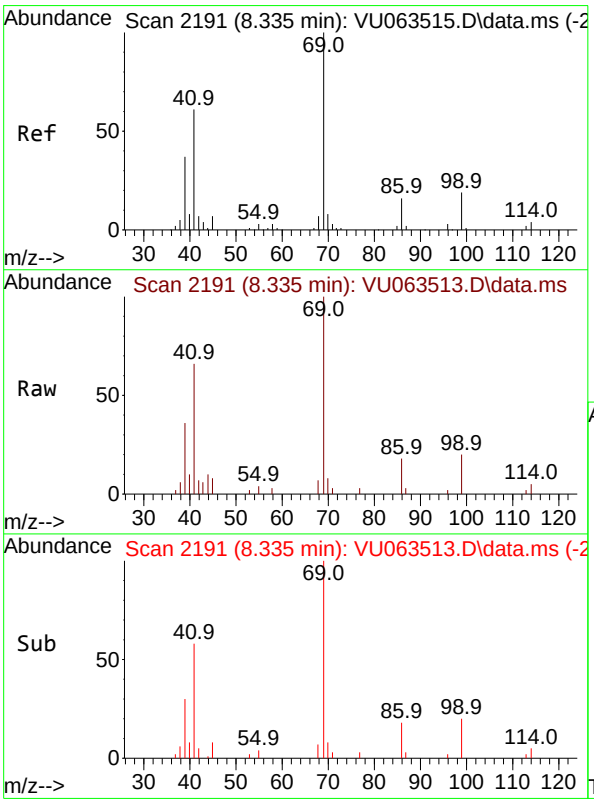
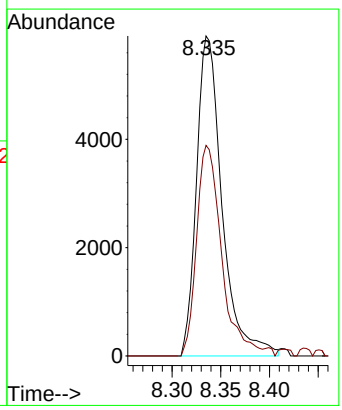
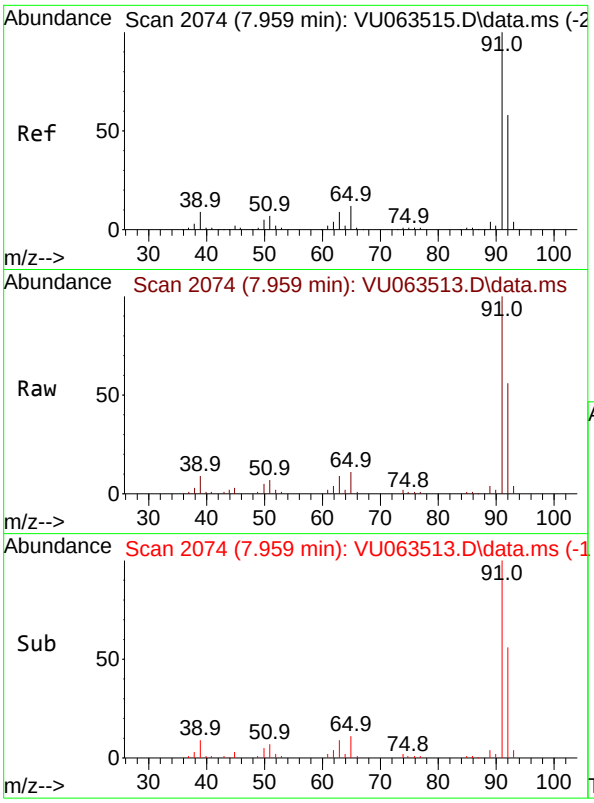


#48
Ethyl methacrylate
Concen: 1.902 ug/l
RT: 8.335 min Scan# 2191
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 69 Resp: 10760

Ion	Ratio	Lower	Upper
69	100		
41	64.3	30.8	92.4

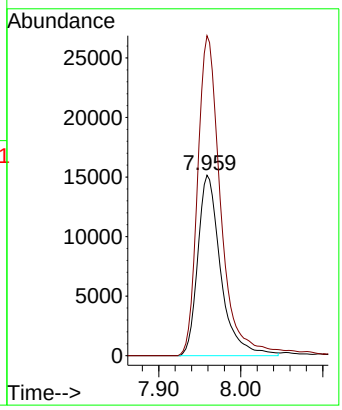




#49
Toluene
Concen: 1.853 ug/l
RT: 7.959 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 92 Resp: 2945

Ion	Ratio	Lower	Upper
92	100		
91	179.2	140.4	210.6



Instrument :
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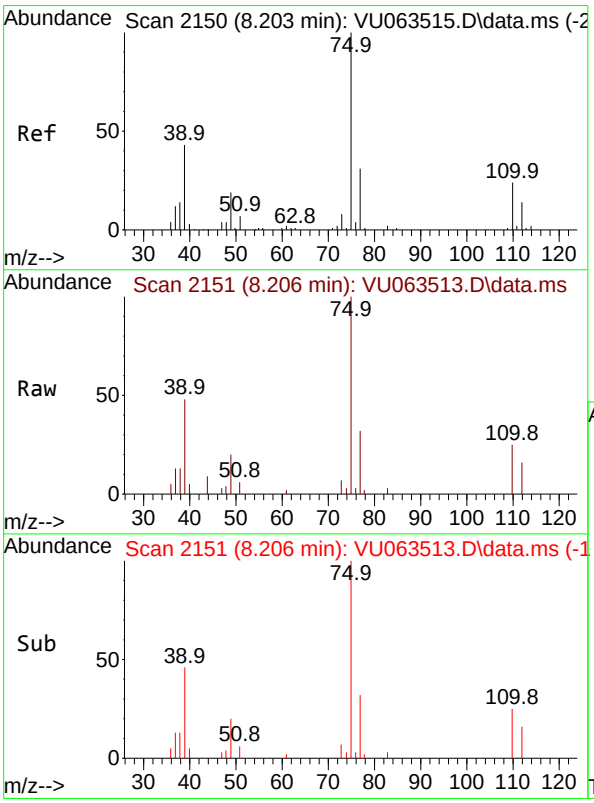
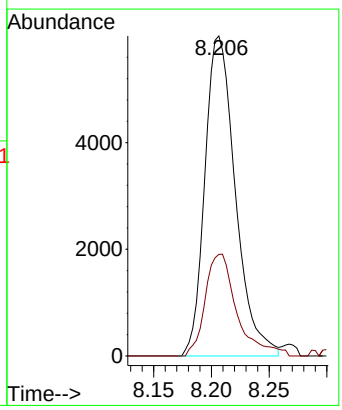
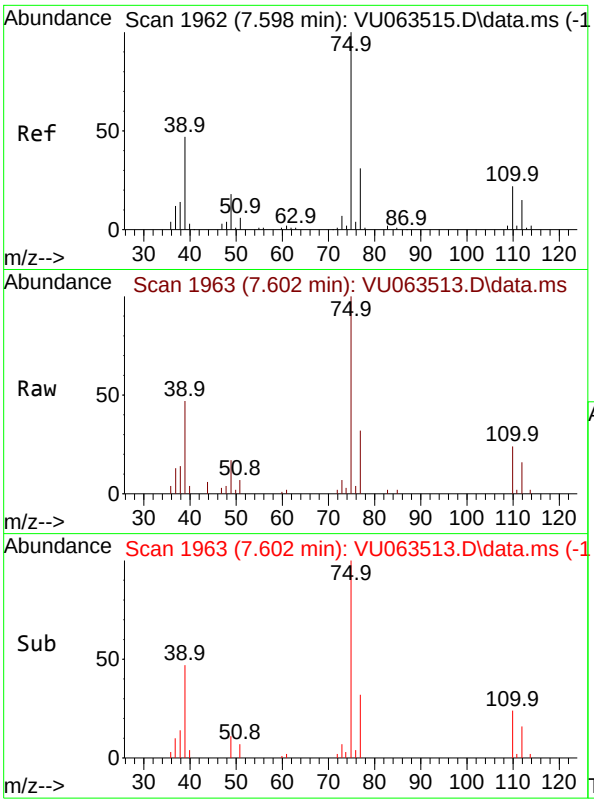


#50
t-1,3-Dichloropropene
Concen: 1.767 ug/l
RT: 8.206 min Scan# 2151
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 75 Resp: 11035

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.9	37.3

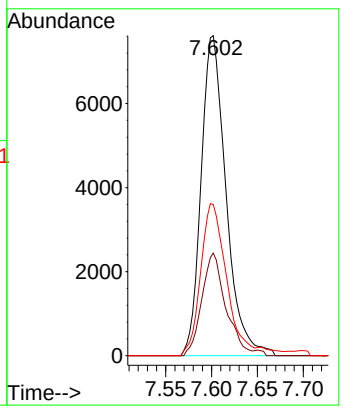




#51
cis-1,3-Dichloropropene
Concen: 1.719 ug/l
RT: 7.602 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 75 Resp: 1440

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.1	37.7
39	47.3	37.8	56.6



Instrument :
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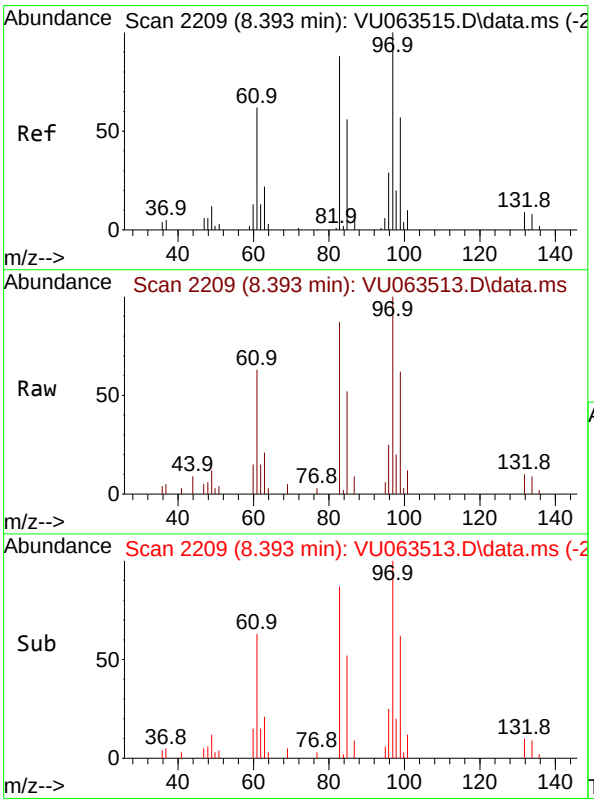
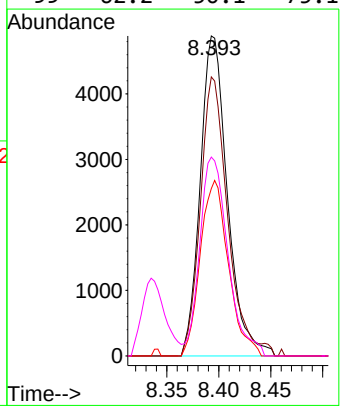
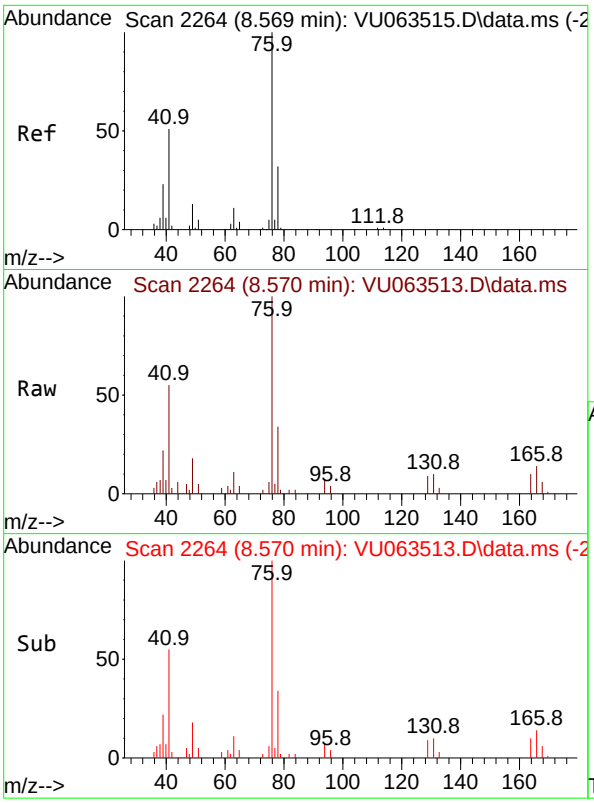


#52
1,1,2-Trichloroethane
Concen: 1.871 ug/l
RT: 8.393 min Scan# 2209
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 97 Resp: 8889

Ion	Ratio	Lower	Upper
97	100		
83	87.2	70.2	105.2
85	52.3	45.2	67.8
99	62.2	50.1	75.1

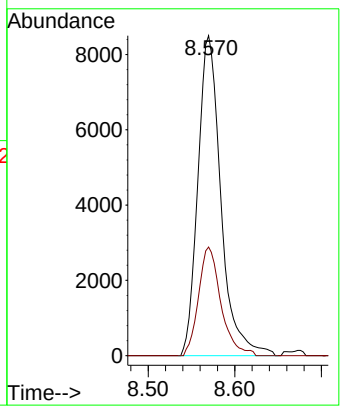




#53
1,3-Dichloropropane
Concen: 1.913 ug/l
RT: 8.570 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 76 Resp: 1569

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.0	39.0



Instrument :
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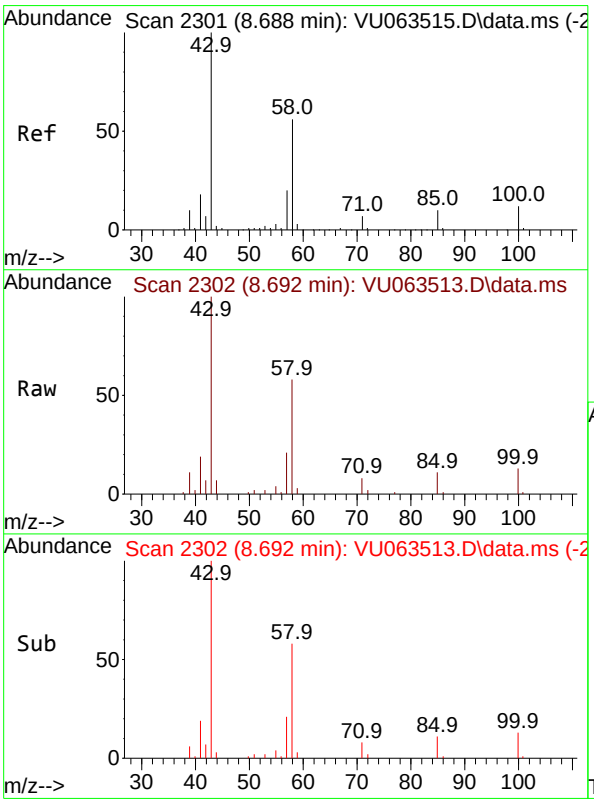
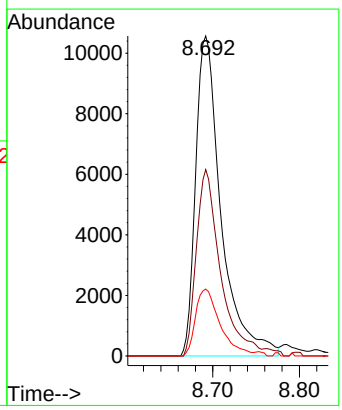
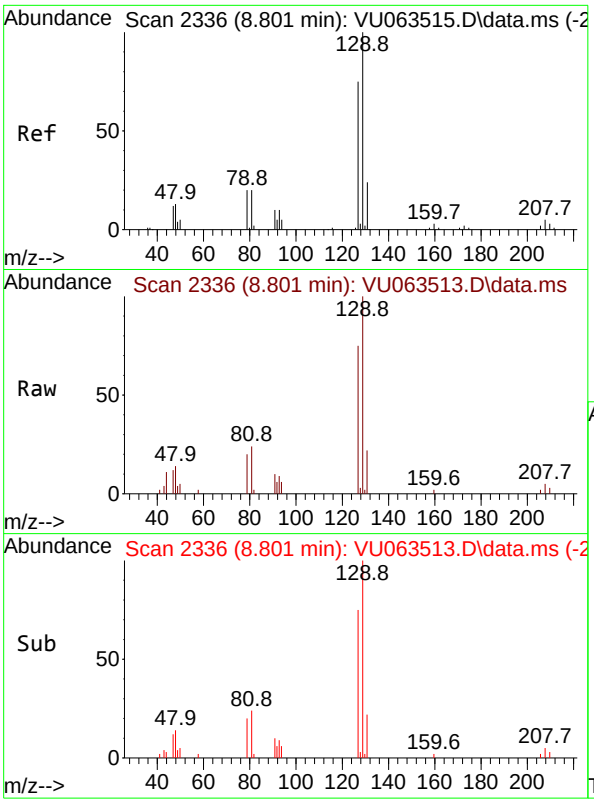


#54
2-Hexanone
Concen: 8.926 ug/l
RT: 8.692 min Scan# 2302
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 43 Resp: 21569

Ion	Ratio	Lower	Upper
43	100		
58	56.1	34.8	74.8
57	20.2	0.0	39.5

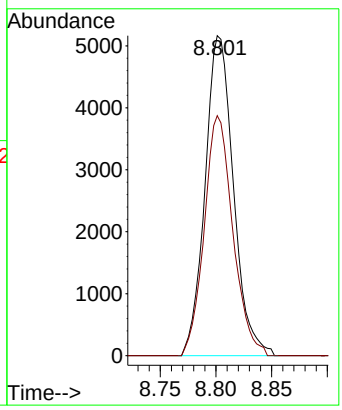




#55
Dibromochloromethane
Concen: 1.824 ug/l
RT: 8.801 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:129 Resp: 915

Ion	Ratio	Lower	Upper
129	100		
127	75.6	60.1	90.1



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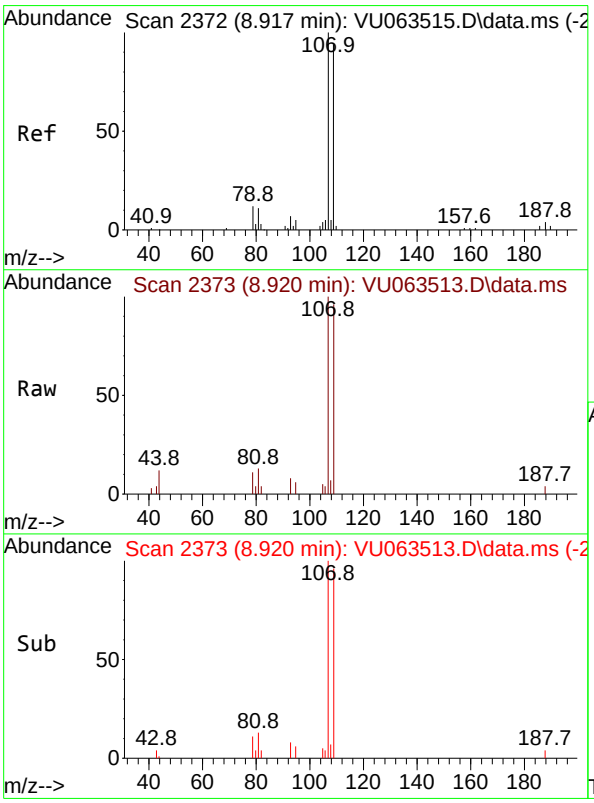
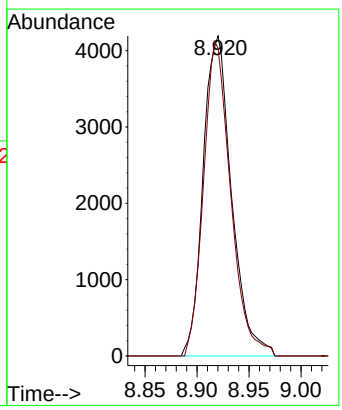
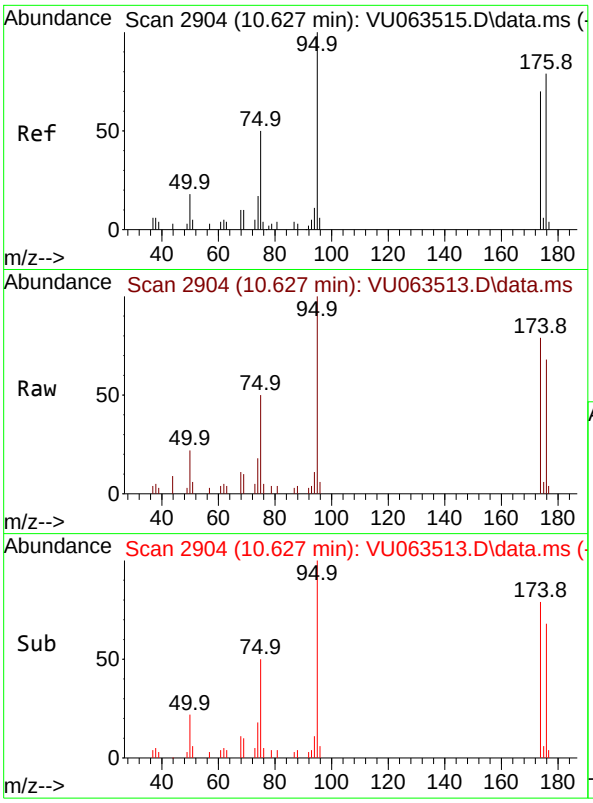


#56
1,2-Dibromoethane
Concen: 1.871 ug/l
RT: 8.920 min Scan# 2373
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:107 Resp: 7956

Ion	Ratio	Lower	Upper
107	100		
109	93.9	0.0	186.4

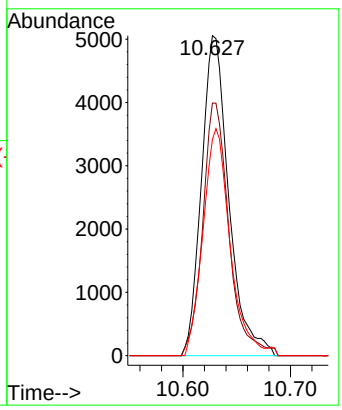




#57
4-Bromofluorobenzene
Concen: 0.953 ug/l
RT: 10.627 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 95 Resp: 891

Ion	Ratio	Lower	Upper
95	100		
174	75.9	59.8	89.8
176	70.1	61.8	92.8



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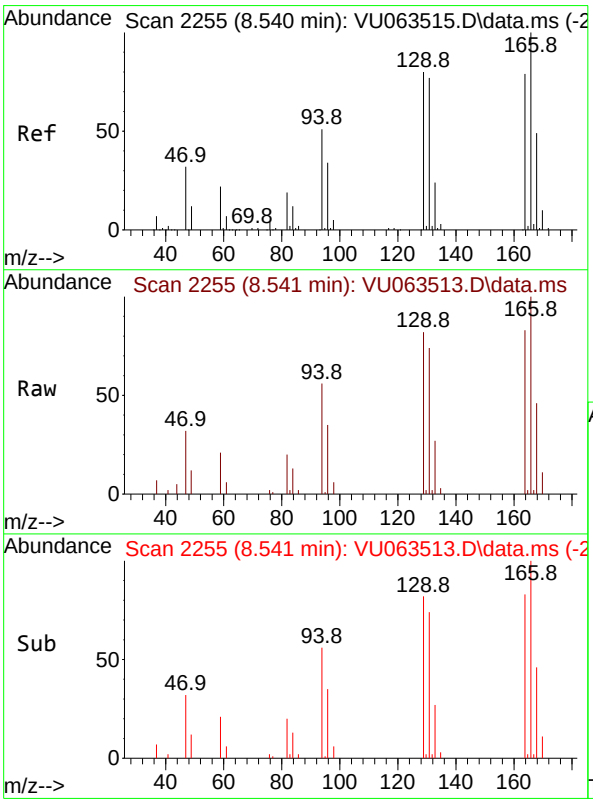
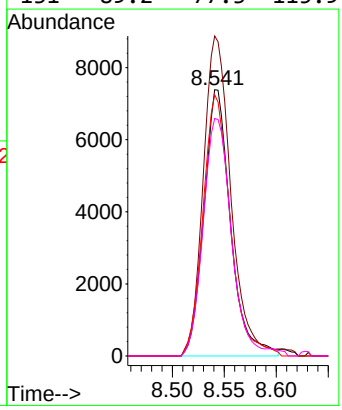
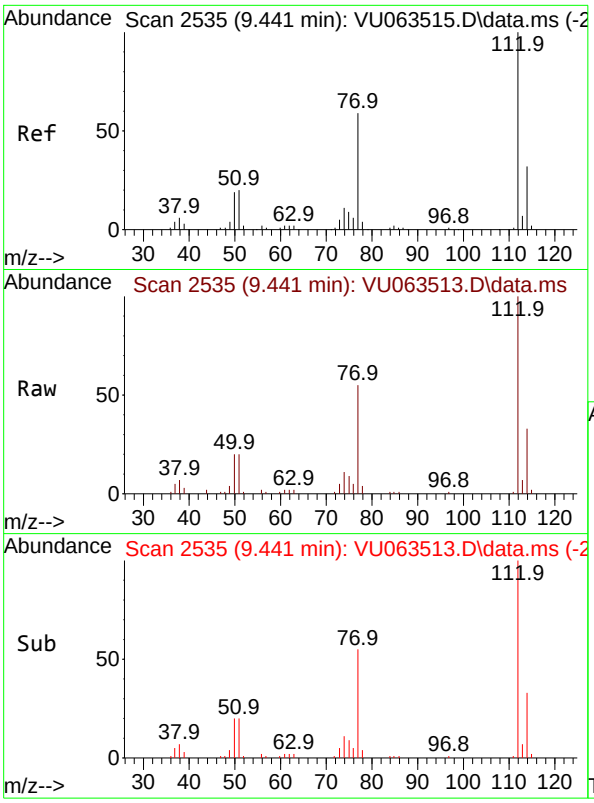


#58
Tetrachloroethene
Concen: 1.936 ug/l
RT: 8.541 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:164 Resp: 13165

Ion	Ratio	Lower	Upper
164	100		
166	120.2	100.7	151.1
129	98.1	80.6	120.8
131	89.2	77.3	115.9

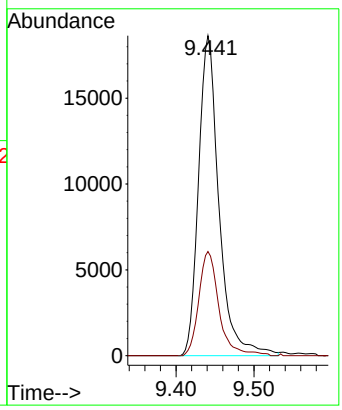




#59
Chlorobenzene
Concen: 1.858 ug/l
RT: 9.441 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:112 Resp: 3392

Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.4	38.2



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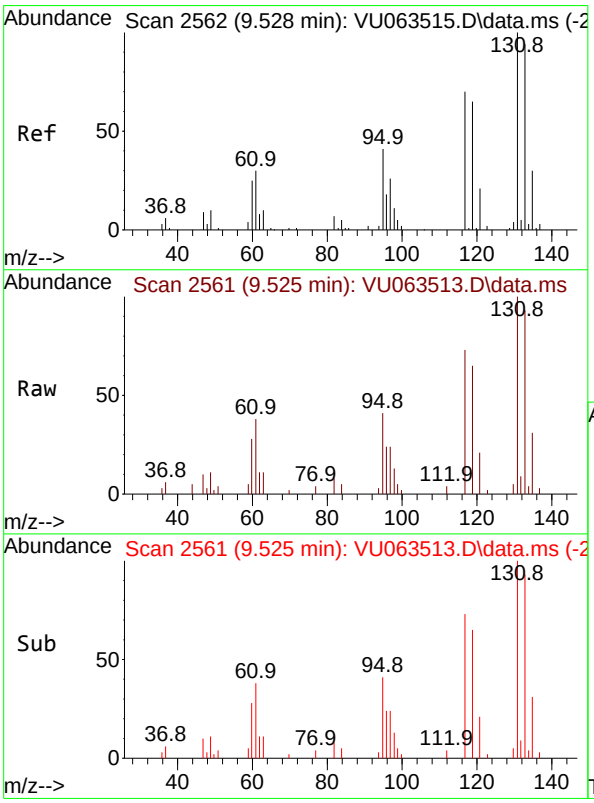
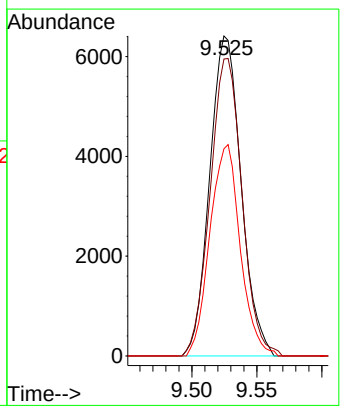
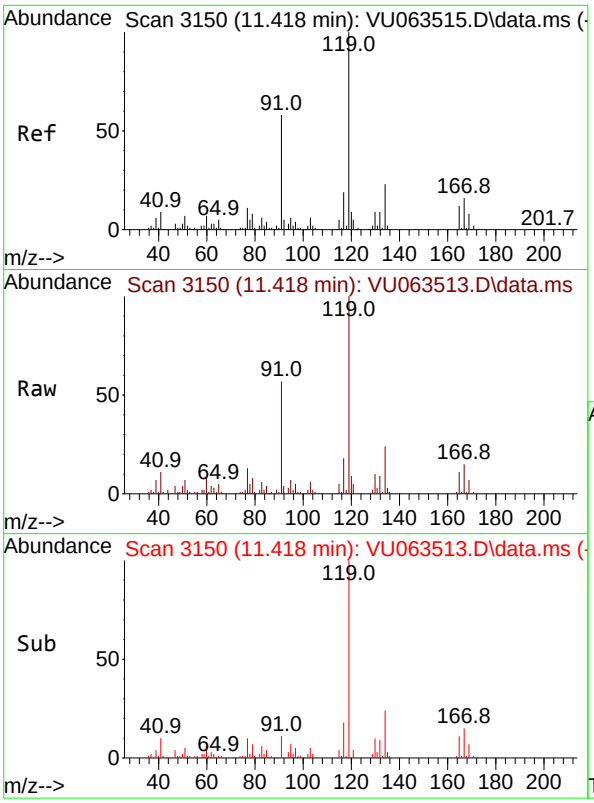


#60
1,1,1,2-Tetrachloroethane
Concen: 1.835 ug/l
RT: 9.525 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:131 Resp: 10771

Ion	Ratio	Lower	Upper
131	100		
133	94.5	74.7	112.1
119	63.8	53.0	79.4

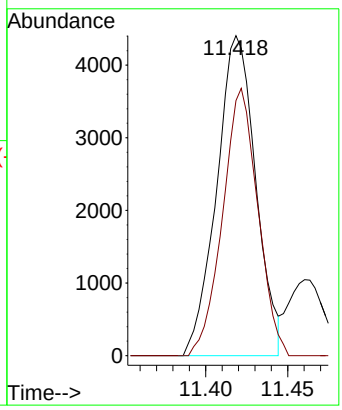




#61
Pentachloroethane
Concen: 1.758 ug/l
RT: 11.418 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:117 Resp: 729

Ion	Ratio	Lower	Upper
117	100		
167	75.3	65.0	97.6



Instrument :
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ClientSampleId :
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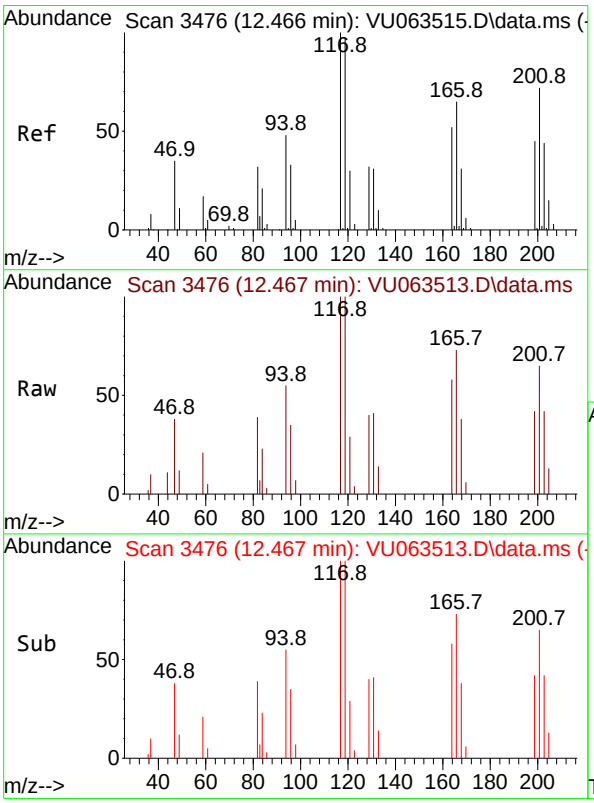
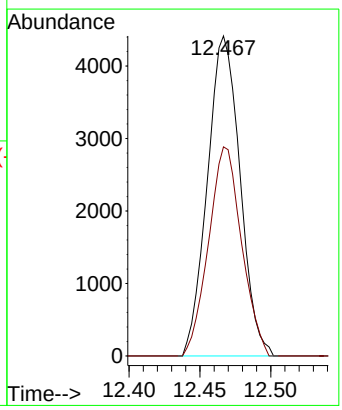
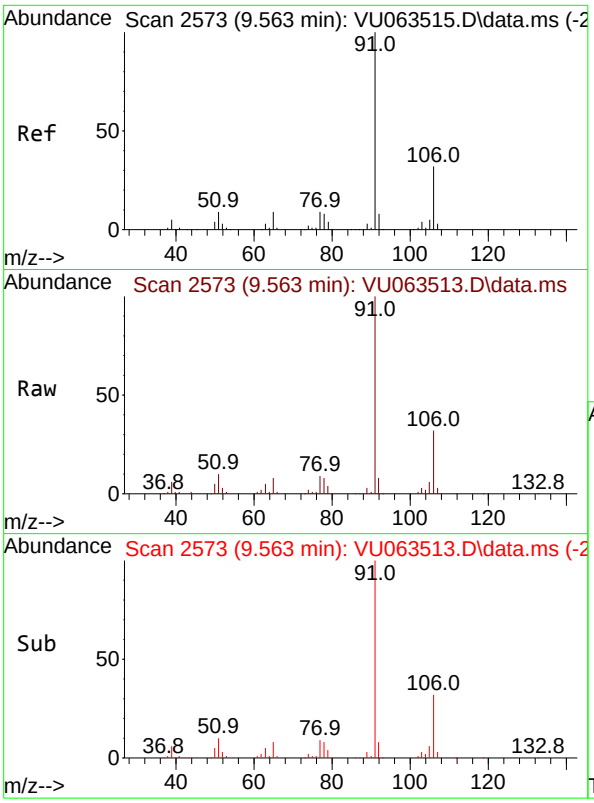


#62
Hexachloroethane
Concen: 1.722 ug/l
RT: 12.467 min Scan# 3476
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:117 Resp: 7073

Ion	Ratio	Lower	Upper
117	100		
201	66.1	57.4	86.0

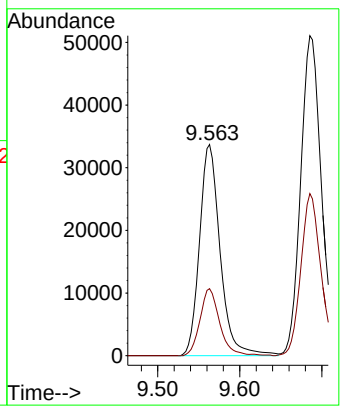




#63
Ethyl Benzene
Concen: 1.874 ug/l
RT: 9.563 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 91 Resp: 5886

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.4	38.0



Instrument :
MSVOA_U
ClientSampleId :
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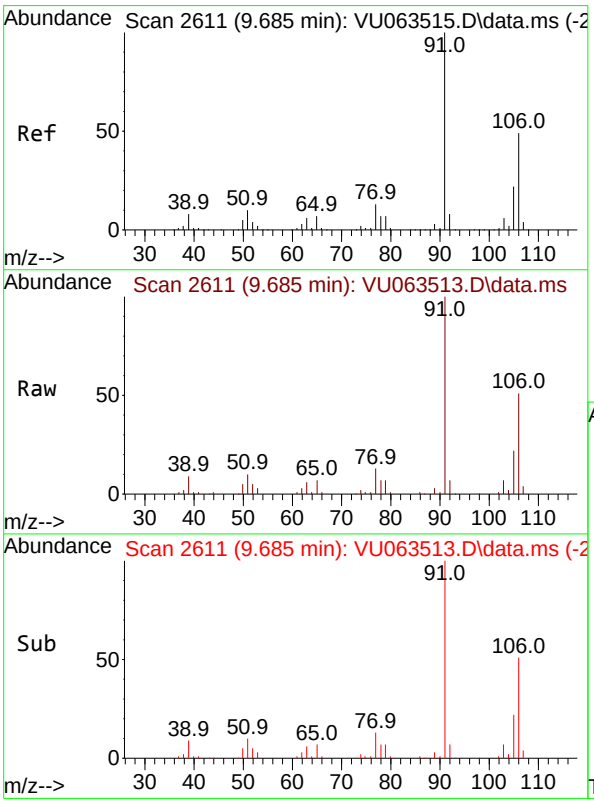
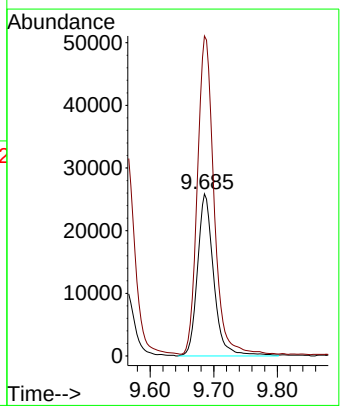
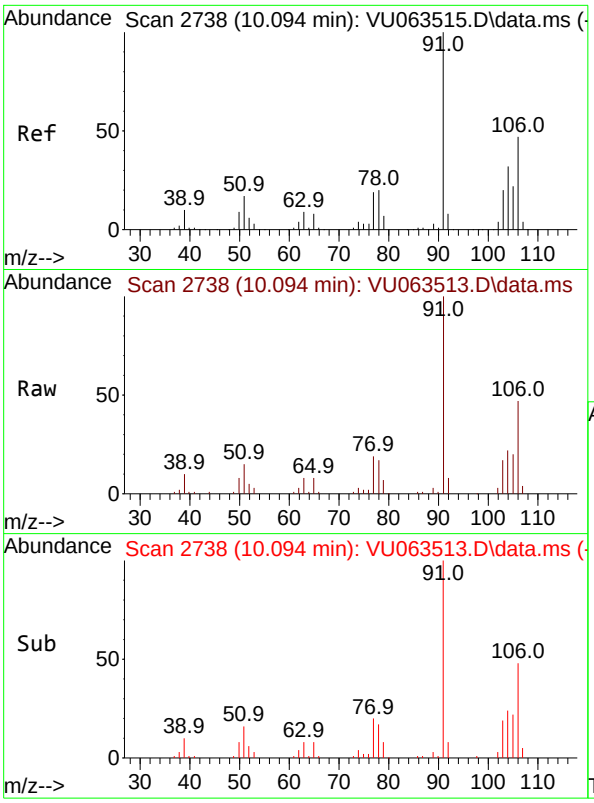


#64
m/p-Xylenes
Concen: 3.756 ug/l
RT: 9.685 min Scan# 2611
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:106 Resp: 45864

Ion	Ratio	Lower	Upper
106	100		
91	200.6	163.6	245.4

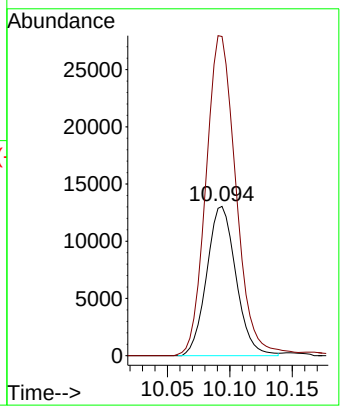




#65
o-Xylene
Concen: 1.819 ug/l
RT: 10.094 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:106 Resp: 2134

Ion	Ratio	Lower	Upper
106	100		
91	220.0	108.1	324.4



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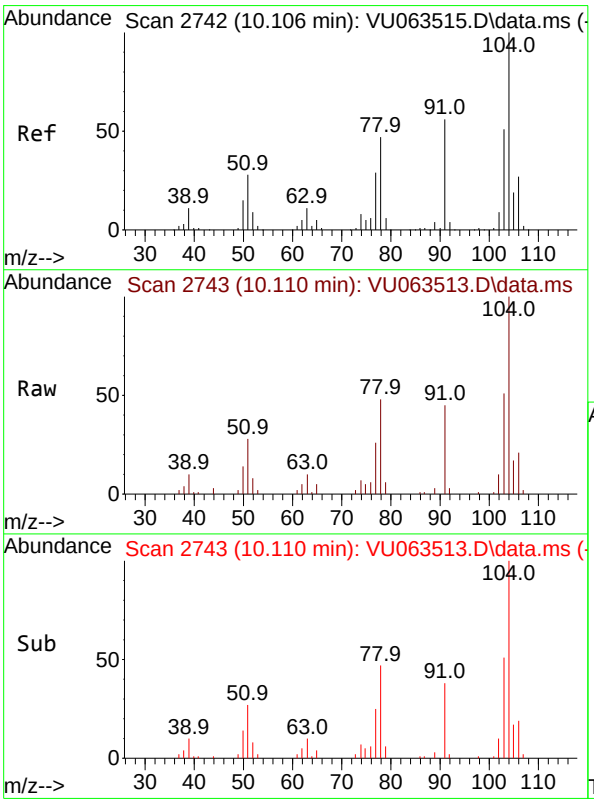
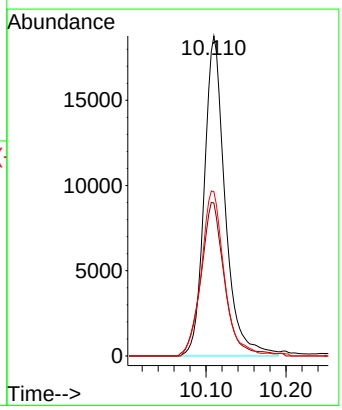
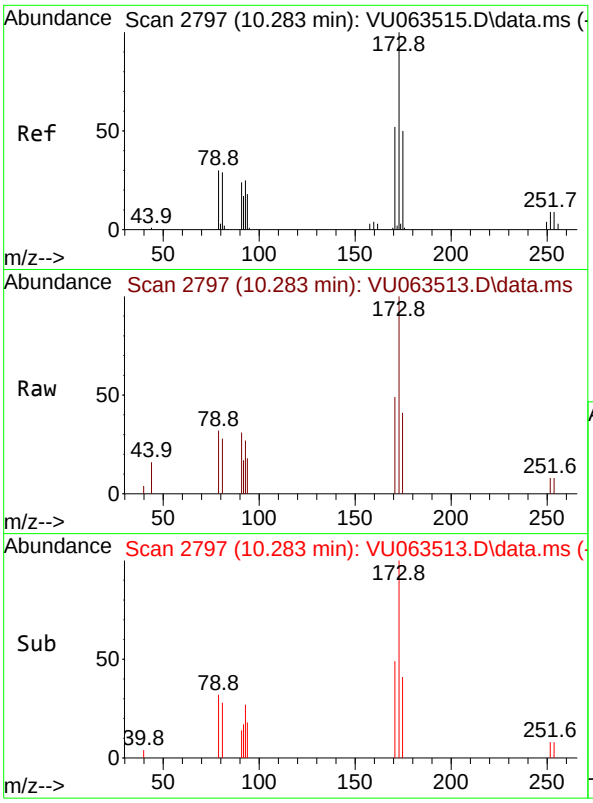


#66
Styrene
Concen: 1.824 ug/l
RT: 10.110 min Scan# 2743
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:104 Resp: 34112

Ion	Ratio	Lower	Upper
104	100		
78	54.5	41.3	61.9
103	56.6	43.6	65.4

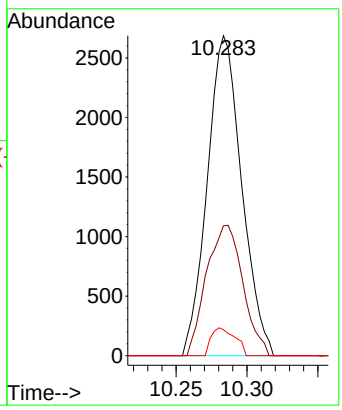




#67
Bromoform
Concen: 1.759 ug/l
RT: 10.283 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:173 Resp: 453

Ion	Ratio	Lower	Upper
173	100		
175	43.1	39.0	58.4
254	6.0	6.5	9.7



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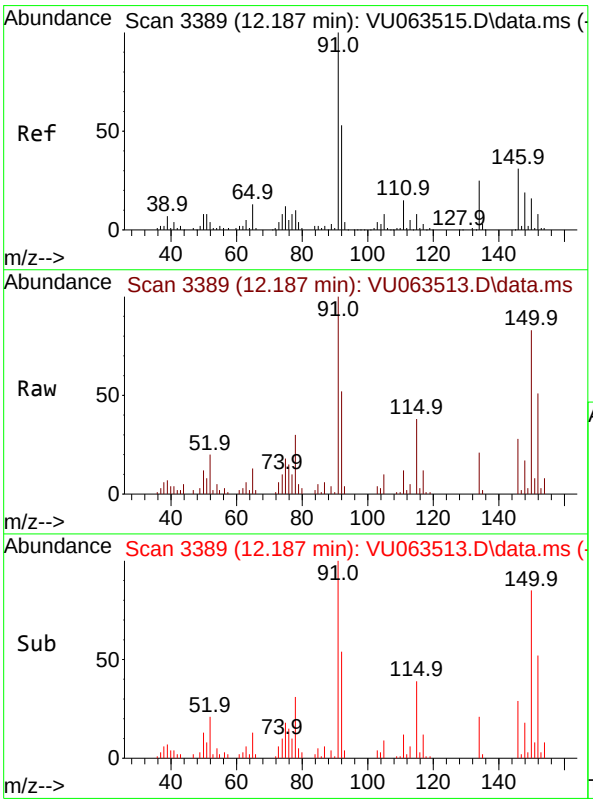
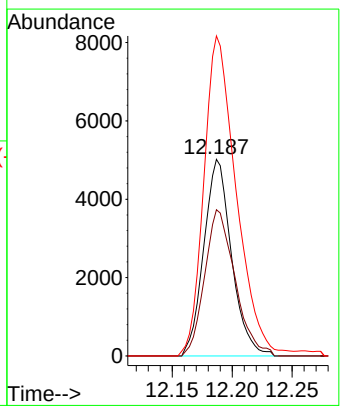
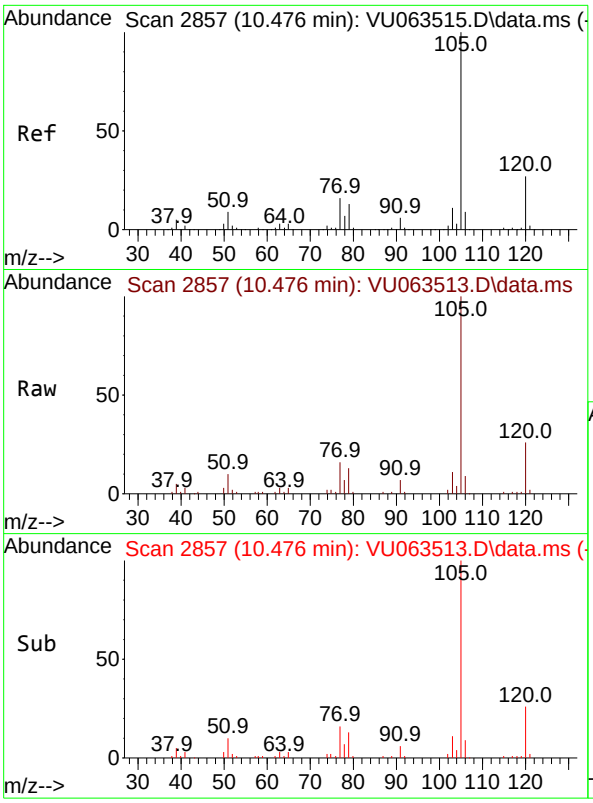


#68
1,2-Dichlorobenzene-d4
Concen: 0.932 ug/l
RT: 12.187 min Scan# 3389
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:152 Resp: 8064

Ion	Ratio	Lower	Upper
152	100		
115	81.3	0.0	262.2
150	189.8	0.0	651.2





#69
Isopropylbenzene
Concen: 1.842 ug/l
RT: 10.476 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:105 Resp: 5226

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

Instrument :
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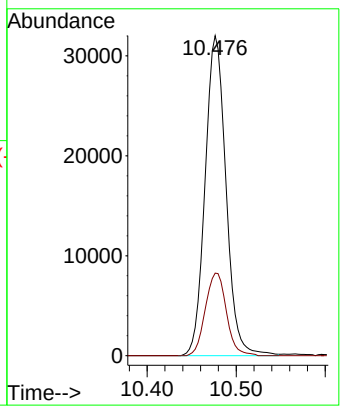
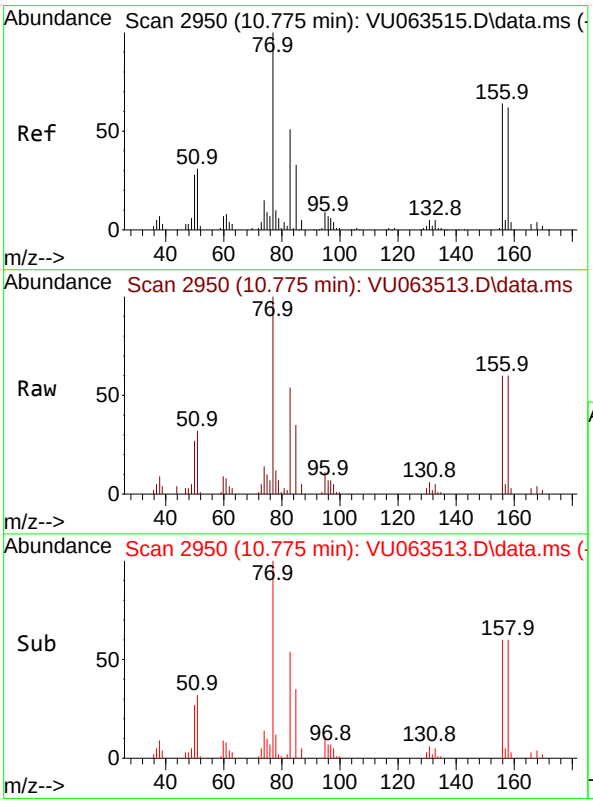
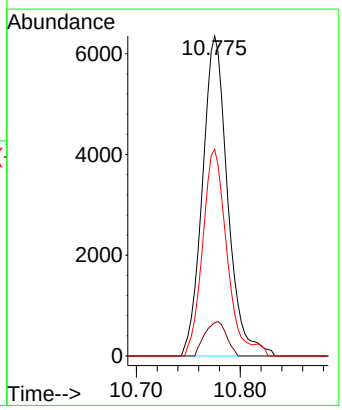


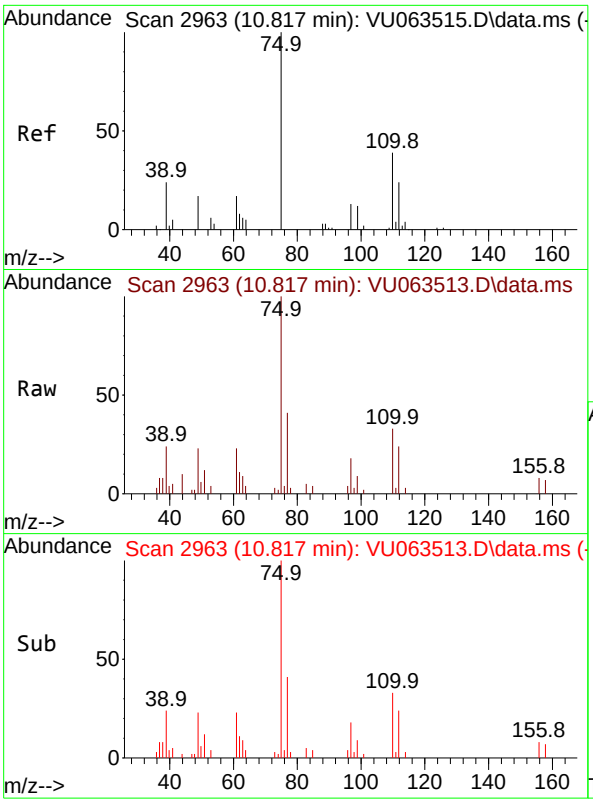


#70
1,1,2,2-Tetrachloroethane
Concen: 1.852 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 83 Resp: 10710

Ion	Ratio	Lower	Upper
83	100		
131	9.2	8.4	12.6
85	62.4	51.9	77.9

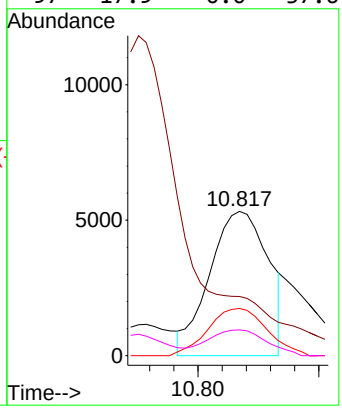




#71
1,2,3-Trichloropropane
Concen: 1.903 ug/l m
RT: 10.817 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 75 Resp: 898

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	32.8	0.0	73.2
97	17.9	0.0	37.6



Instrument :
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ClientSampleId :
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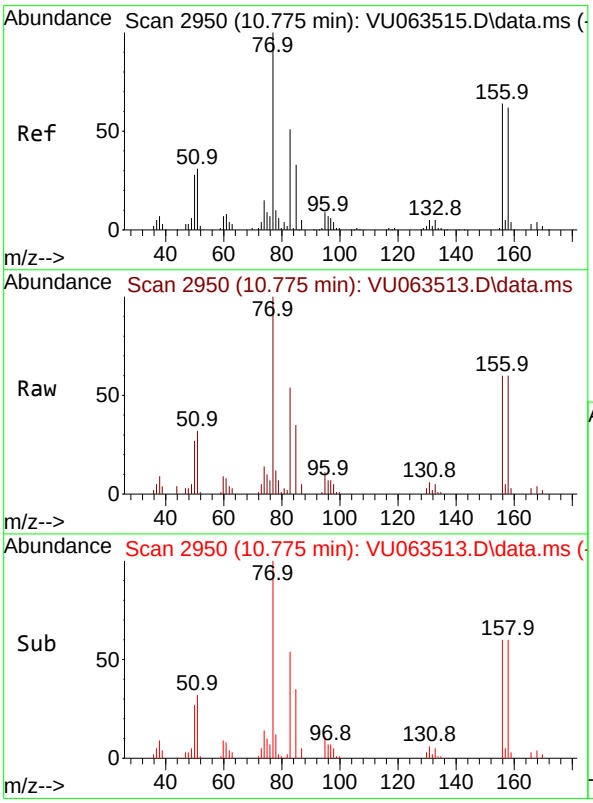
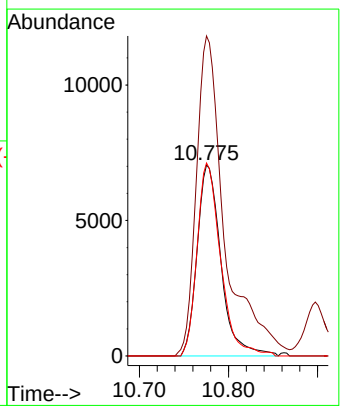
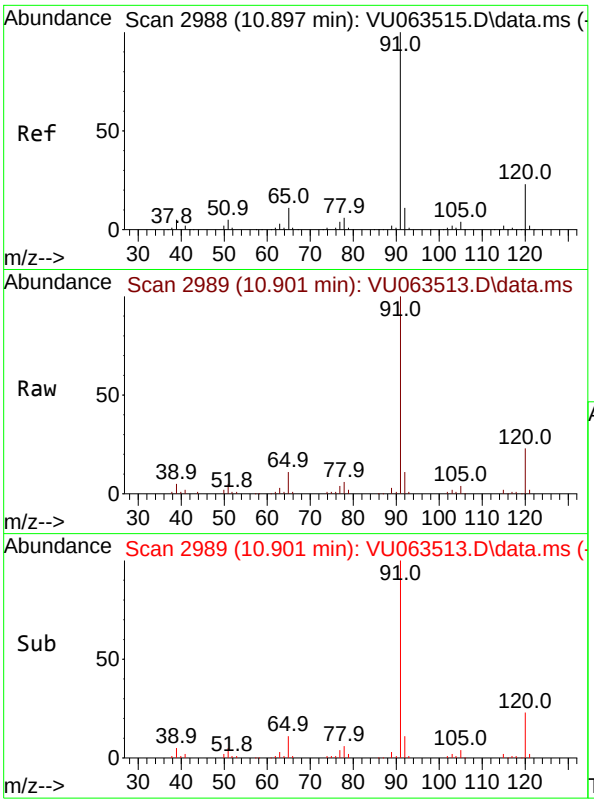


#72
Bromobenzene
Concen: 1.791 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:156 Resp: 13109

Ion	Ratio	Lower	Upper
156	100		
77	200.0	0.0	315.2
158	100.1	0.0	195.4

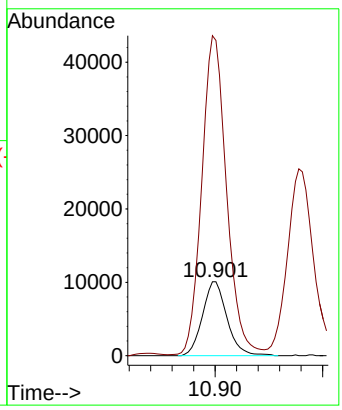




#73
n-propylbenzene
Concen: 1.868 ug/l
RT: 10.901 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:120 Resp: 1595

Ion	Ratio	Lower	Upper
120	100		
91	434.9	343.1	514.7



Instrument :
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VSTDICC002

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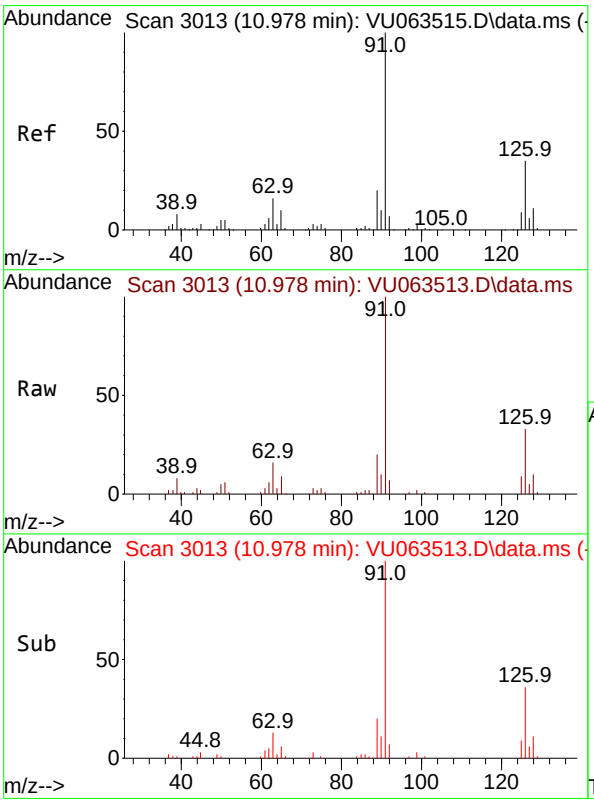
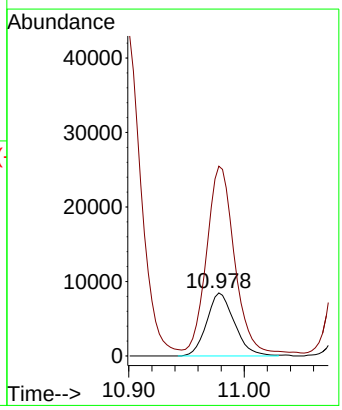
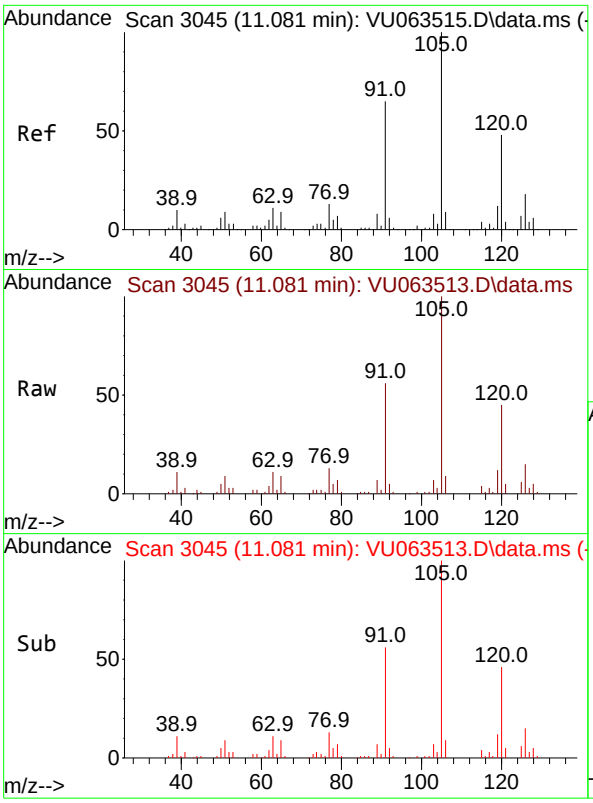


#74
2-Chlorotoluene
Concen: 1.864 ug/l
RT: 10.978 min Scan# 3013
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:126 Resp: 14070

Ion	Ratio	Lower	Upper
126	100		
91	299.8	0.0	606.0





#75
1,3,5-Trimethylbenzene
Concen: 1.847 ug/l
RT: 11.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:105 Resp: 5006

Ion	Ratio	Lower	Upper
105	100		
120	46.1	37.8	56.8

Instrument :
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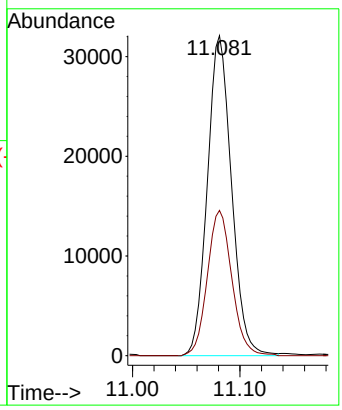
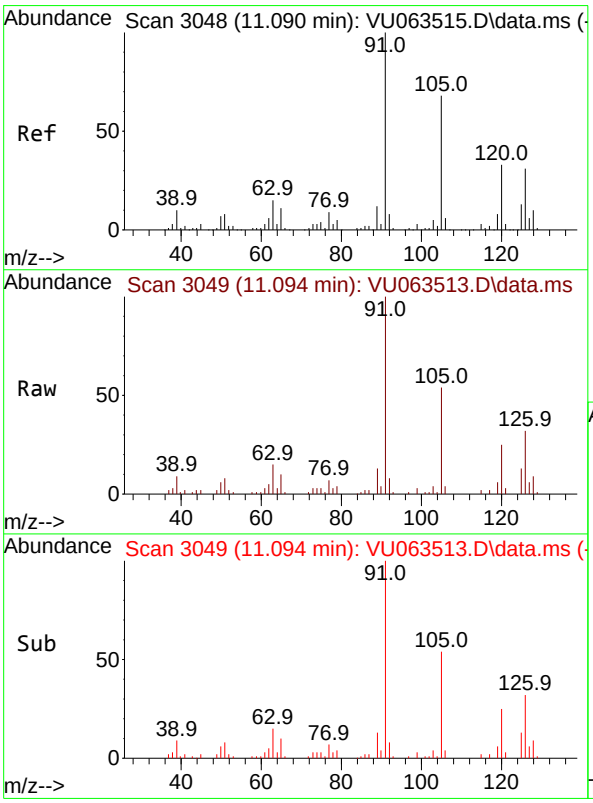
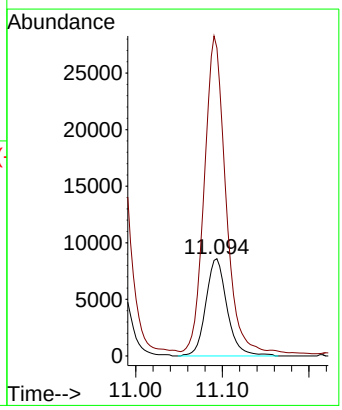


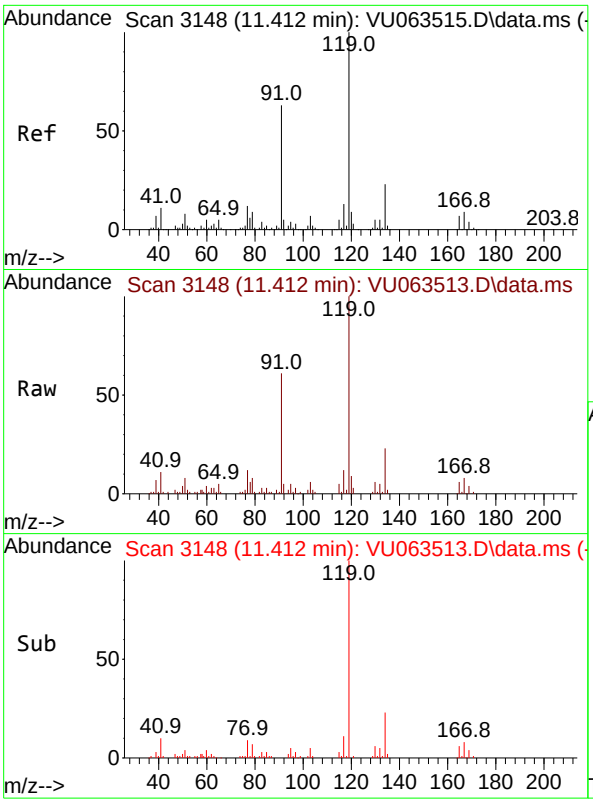


#76
4-Chlorotoluene
Concen: 1.911 ug/l
RT: 11.094 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:126 Resp: 14644

Ion	Ratio	Lower	Upper
126	100		
91	322.3	0.0	682.2

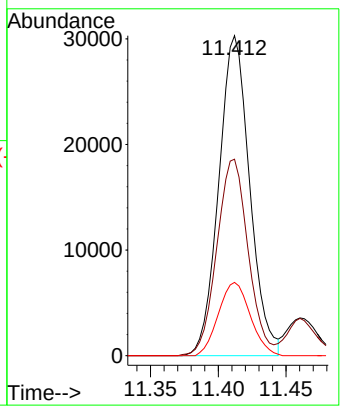




#77
tert-Butylbenzene
Concen: 1.860 ug/l
RT: 11.412 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:119 Resp: 4817

Ion	Ratio	Lower	Upper
119	100		
91	62.0	30.7	92.1
134	23.6	18.5	27.7



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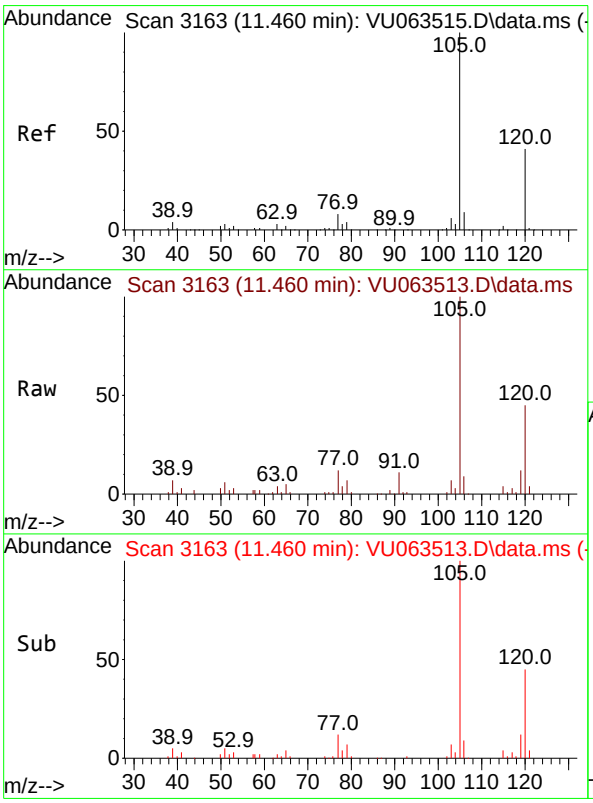
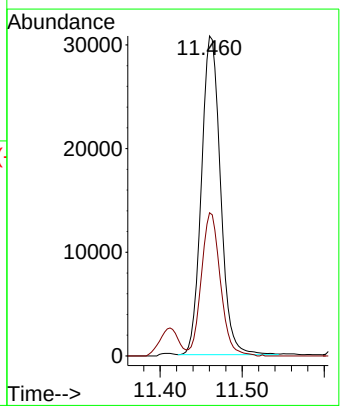
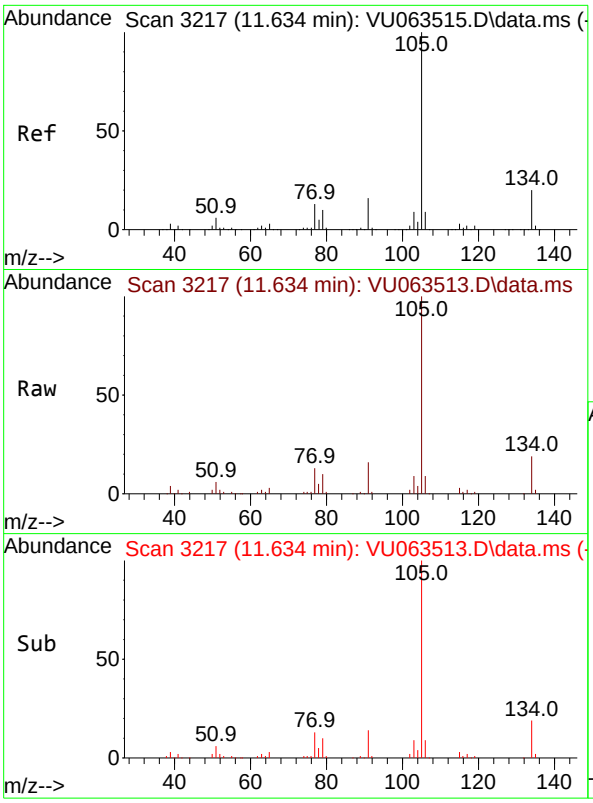


#78
1,2,4-Trimethylbenzene
Concen: 1.846 ug/l
RT: 11.460 min Scan# 3163
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:105 Resp: 49637

Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.7	68.0

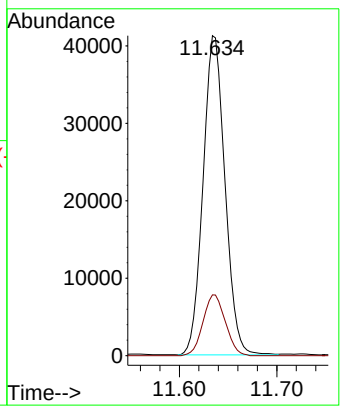




#79
sec-Butylbenzene
Concen: 1.845 ug/l
RT: 11.634 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:105 Resp: 6444

Ion	Ratio	Lower	Upper
105	100		
134	19.4	16.2	24.4



Instrument :
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ClientSampleId :
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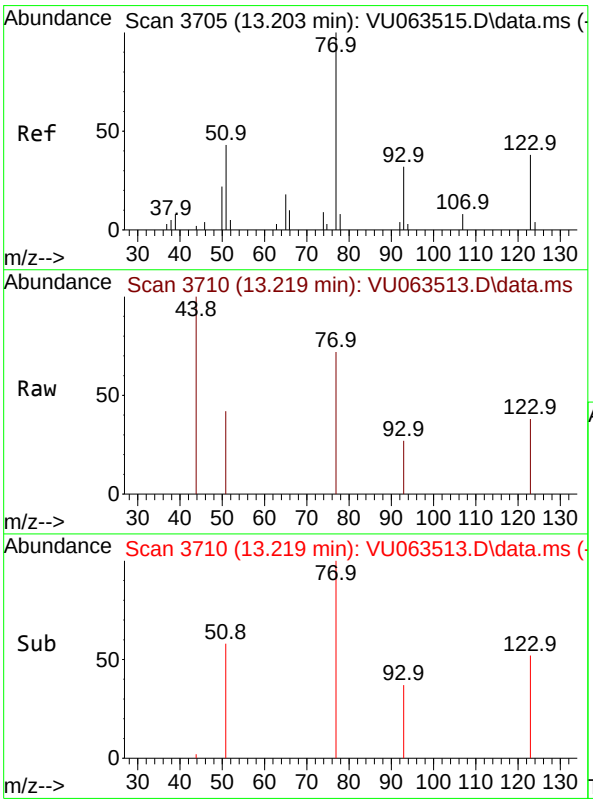
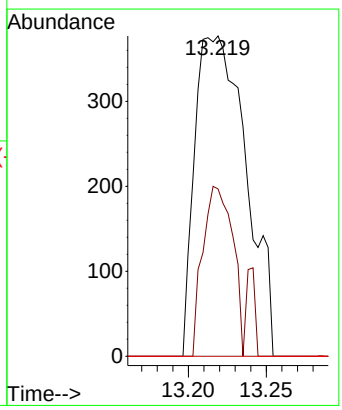
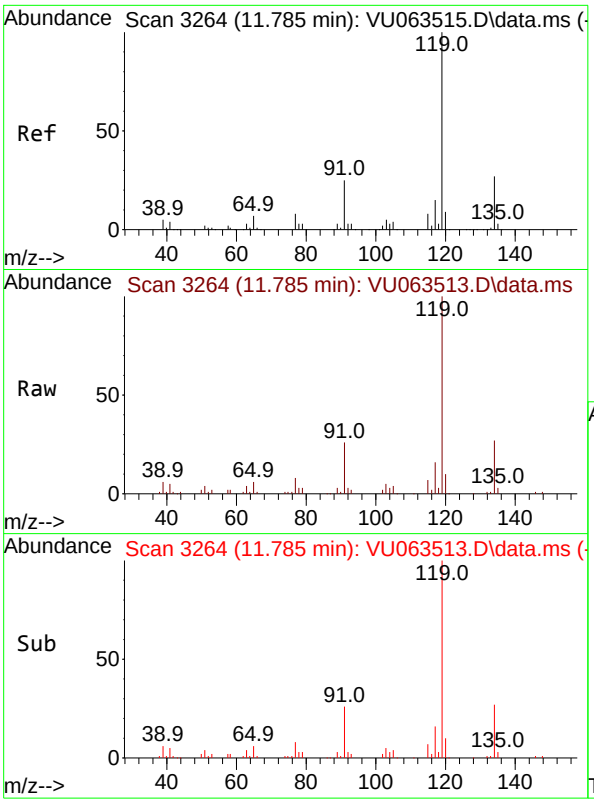


#80
Nitrobenzene
Concen: 9.644 ug/l
RT: 13.219 min Scan# 3710
Delta R.T. 0.016 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 77 Resp: 861

Ion	Ratio	Lower	Upper
77	100		
123	31.0	16.9	59.7
65	0.0	16.5	20.9#

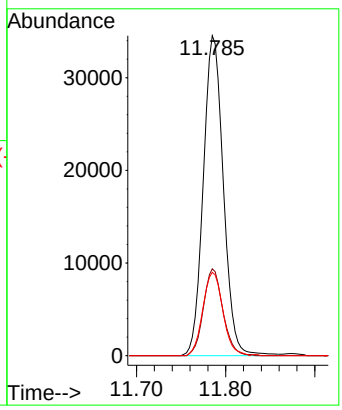




#81
p-Isopropyltoluene
Concen: 1.850 ug/l
RT: 11.785 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:119 Resp: 5392

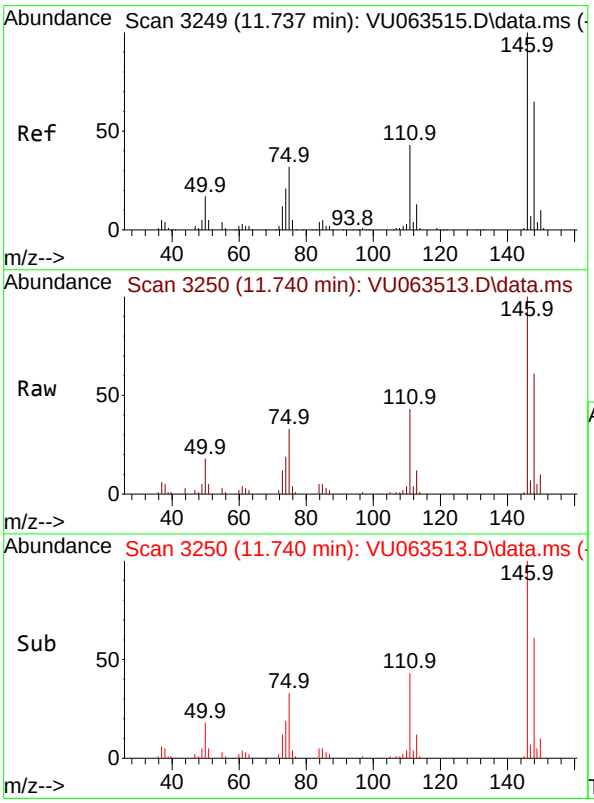
Ion	Ratio	Lower	Upper
119	100		
134	26.3	21.1	31.7
91	26.0	19.8	29.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

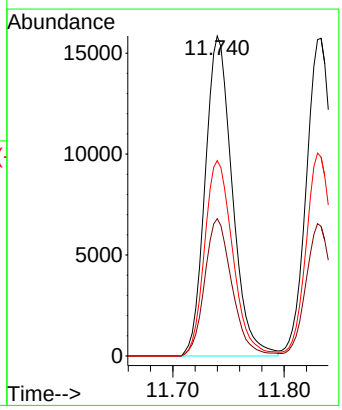
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

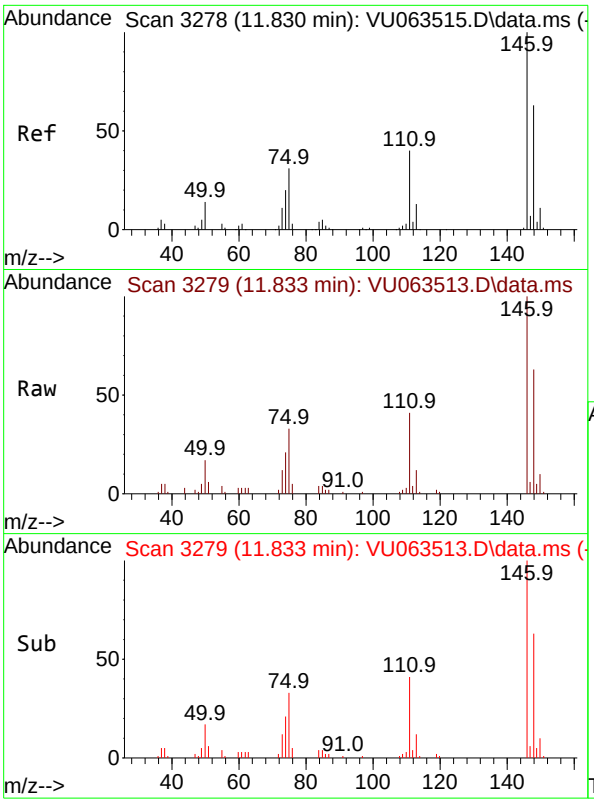


#82
1,3-Dichlorobenzene
Concen: 1.833 ug/l
RT: 11.740 min Scan# 3250
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:146 Resp: 26844

Ion	Ratio	Lower	Upper
146	100		
111	43.2	33.8	50.6
148	63.5	51.5	77.3

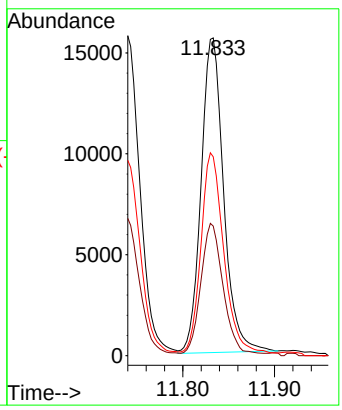




#83
1,4-Dichlorobenzene
Concen: 1.818 ug/l
RT: 11.833 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:146 Resp: 2665

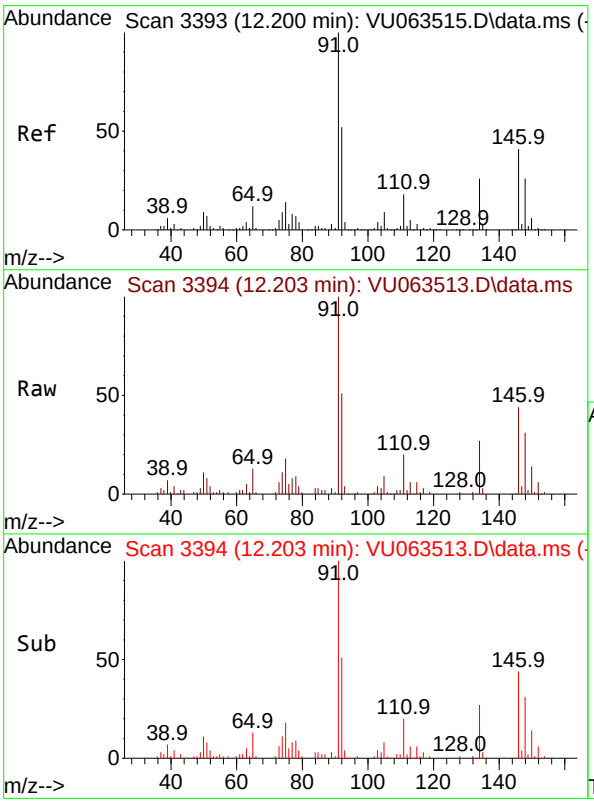
Ion	Ratio	Lower	Upper
146	100		
111	40.4	32.0	48.0
148	64.6	50.2	75.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

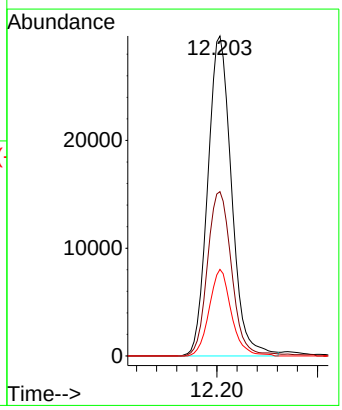
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

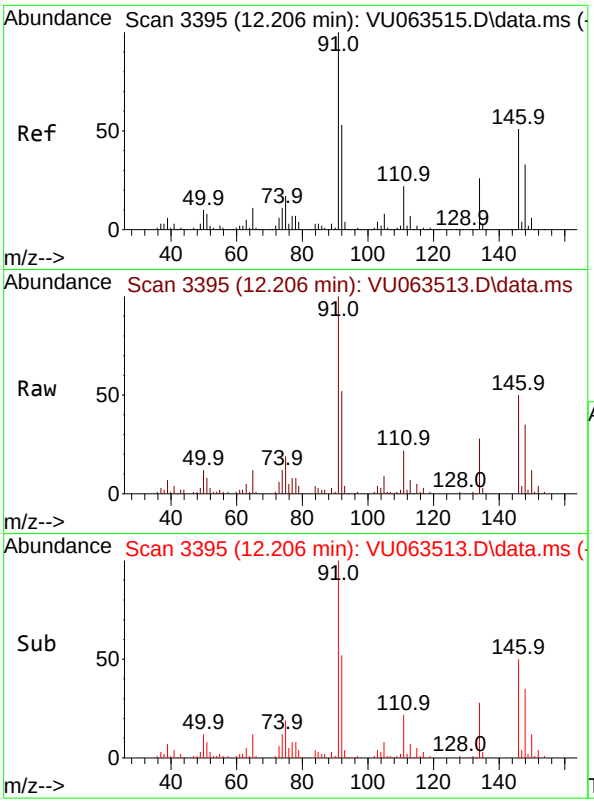


#84
n-Butylbenzene
Concen: 1.801 ug/l
RT: 12.203 min Scan# 3394
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 91 Resp: 48694

Ion	Ratio	Lower	Upper
91	100		
92	52.6	41.5	62.3
134	25.2	20.6	30.8

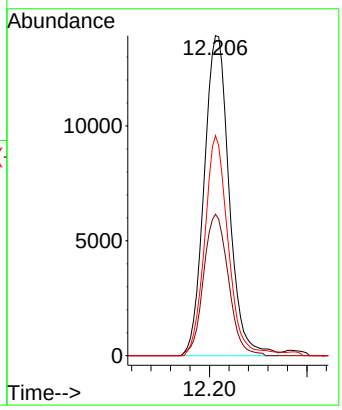




#85
1,2-Dichlorobenzene
Concen: 1.805 ug/l
RT: 12.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:146 Resp: 2483

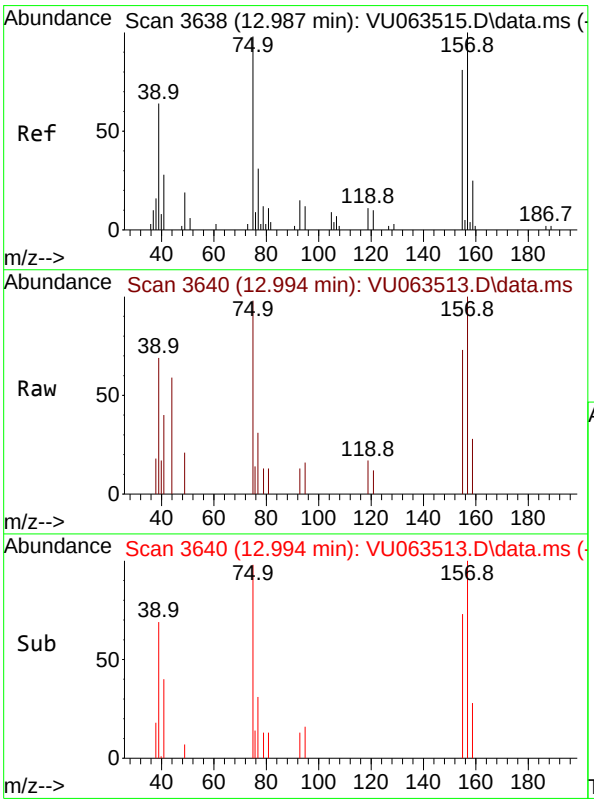
Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.7	65.1
148	64.9	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

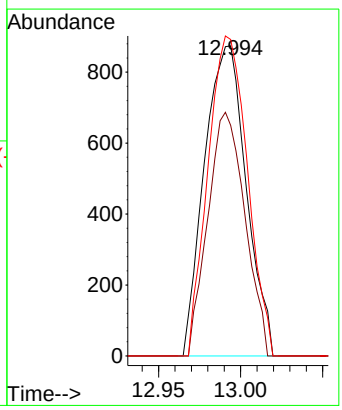
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

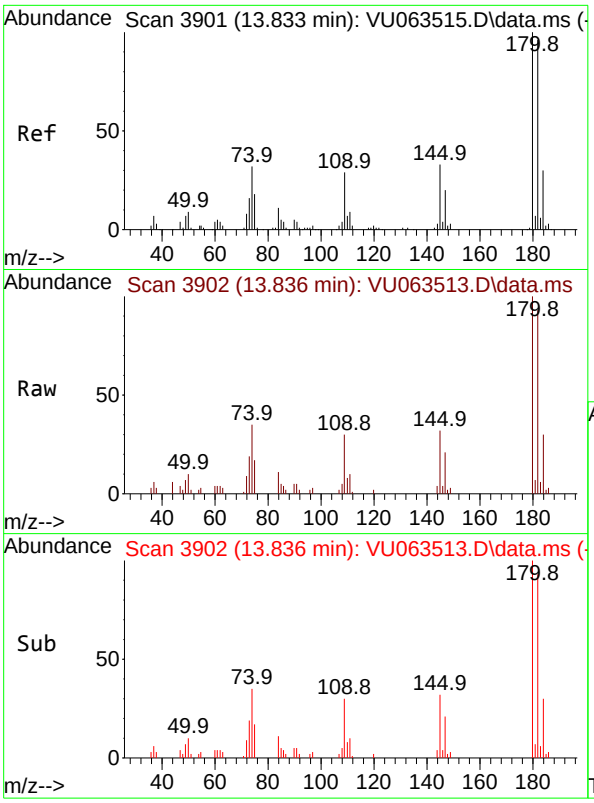


#86
1,2-Dibromo-3-Chloropropane
Concen: 2.046 ug/l
RT: 12.994 min Scan# 3640
Delta R.T. 0.007 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion: 75 Resp: 1550

Ion	Ratio	Lower	Upper
75	100		
155	69.8	65.8	98.6
157	97.1	81.4	122.2

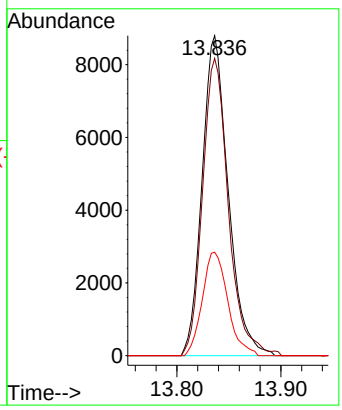




#87
1,2,4-Trichlorobenzene
Concen: 1.791 ug/l
RT: 13.836 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:180 Resp: 1532

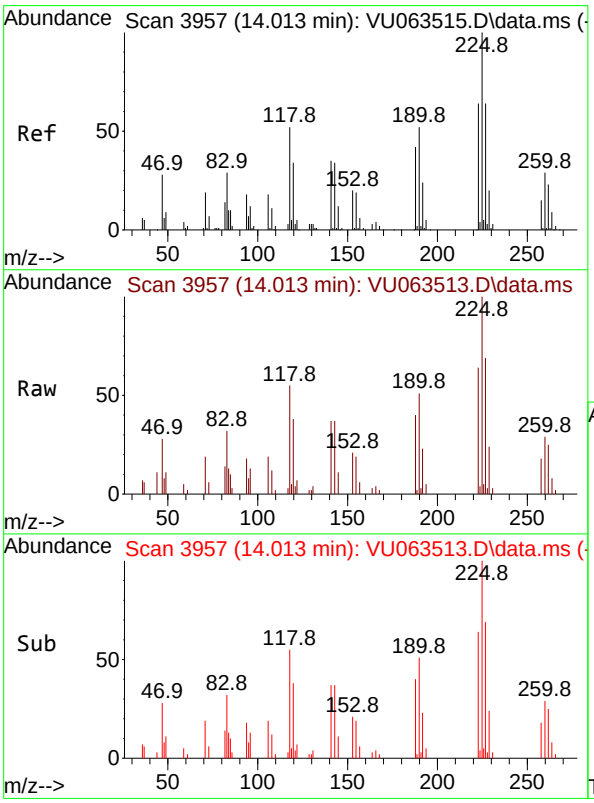
Ion	Ratio	Lower	Upper
180	100		
182	91.9	76.2	114.4
145	31.6	26.2	39.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

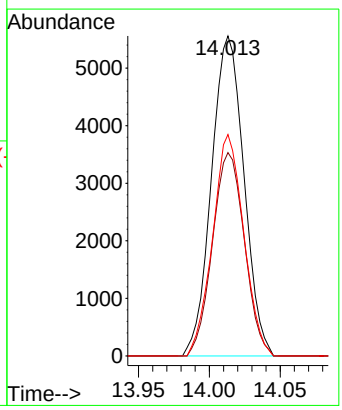
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

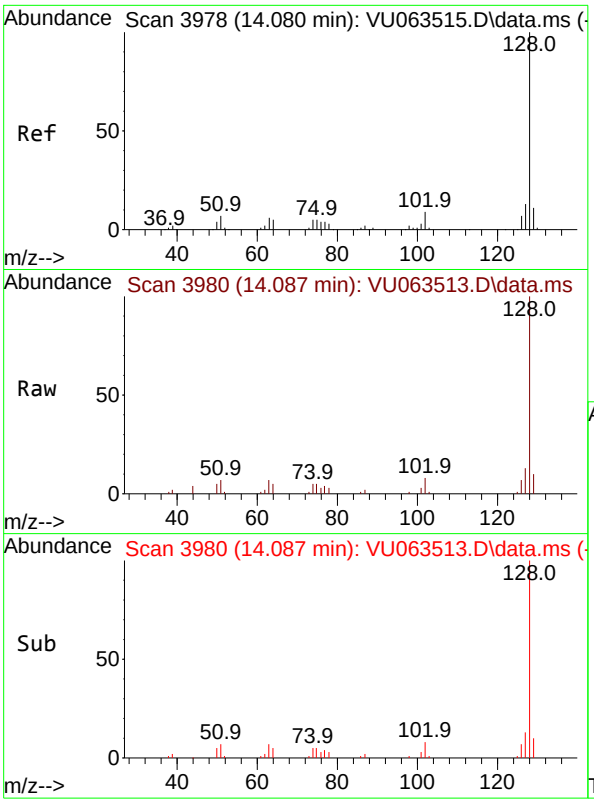


#88
Hexachlorobutadiene
Concen: 1.826 ug/l
RT: 14.013 min Scan# 3957
Delta R.T. 0.000 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:225 Resp: 8872

Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.8	76.2
227	66.2	51.0	76.6

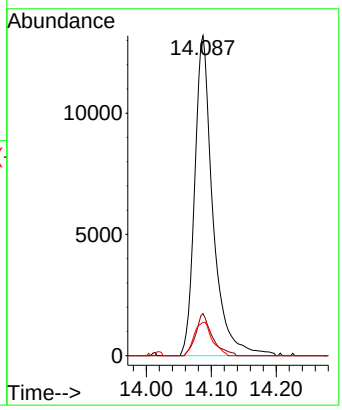




#89
Naphthalene
Concen: 1.675 ug/l
RT: 14.087 min Scan# 3
Delta R.T. 0.007 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:128 Resp: 2569

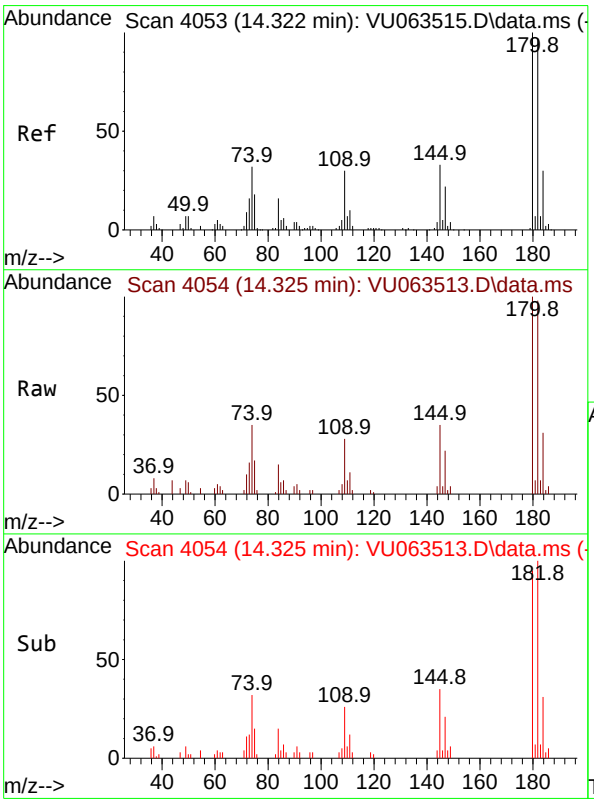
Ion	Ratio	Lower	Upper
128	100		
127	11.9	10.2	15.4
129	10.4	8.8	13.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

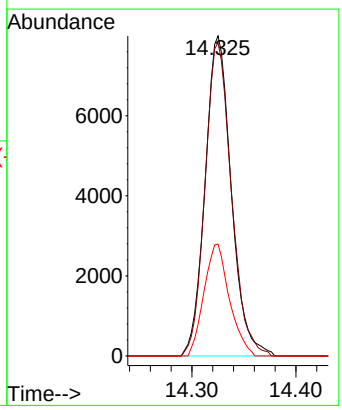
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#90
1,2,3-Trichlorobenzene
Concen: 1.770 ug/l
RT: 14.325 min Scan# 4054
Delta R.T. 0.003 min
Lab File: VU063513.D
Acq: 16 Jul 2025 10:27

Tgt Ion:180 Resp: 13999

Ion	Ratio	Lower	Upper
180	100		
182	98.2	78.0	117.0
145	33.8	27.3	40.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063514.D
Acq On : 16 Jul 2025 11:00
Operator : MD/SY
Sample : VSTDICC005
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:24:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.097	96	26058	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	9401	0.953	ug/l	0.00
Spiked Amount 1.000			Recovery = 95.000%			
68) 1,2-Dichlorobenzene-d4	12.187	152	8923	0.978	ug/l	0.00
Spiked Amount 1.000			Recovery = 98.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.380	85	37785	4.918	ug/l	100
3) Chloromethane	1.518	50	35181	4.926	ug/l	99
4) Vinyl Chloride	1.599	62	44244	4.864	ug/l	99
5) Bromomethane	1.846	94	32799	4.782	ug/l	100
6) Chloroethane	1.923	64	26955	4.908	ug/l	99
7) Trichlorofluoromethane	2.129	101	64344	4.927	ug/l	99
8) 1,1,2-Trichloro-1,2,2-...	2.566	101	34008	4.983	ug/l	99
9) 1,1-Dichloroethene	2.566	96	33329	4.927	ug/l	98
10) Iodomethane	2.708	142	39902	4.500	ug/l	99
11) Allyl Chloride	2.907	41	46826	4.791	ug/l	97
12) Acrylonitrile	3.306	53	16229	9.586	ug/l	99
13) Acetone	2.618	43	29387	21.677	ug/l	98
14) Carbon Disulfide	2.779	76	106742	4.885	ug/l	99
15) Methylene Chloride	3.029	84	37774	4.742	ug/l	99
16) trans-1,2-Dichloroethene	3.335	96	37017	4.818	ug/l	96
17) 1,1-Dichloroethane	3.849	63	70167	4.927	ug/l	98
18) 2-Butanone	4.714	43	48390	23.049	ug/l	100
19) Cyclohexane	5.361	56	58522	4.854	ug/l	100
20) Methylcyclohexane	6.740	83	52941	4.517	ug/l	98
21) 2,2-Dichloropropane	4.644	77	56419	4.653	ug/l	99
22) cis-1,2-Dichloroethene	4.650	96	40321	4.836	ug/l	99
23) Diethyl Ether	2.370	59	25929	5.030	ug/l	99
24) tert-Butyl Alcohol	3.190	59	29561	47.503	ug/l	99
25) Methyl tert-Butyl Ether	3.361	73	86741	4.911	ug/l	98
26) Bromochloromethane	4.955	128	17243	4.953	ug/l	95
27) Chloroform	5.071	83	70739	4.868	ug/l	100
28) 1,1,1-Trichloroethane	5.293	97	61347	4.974	ug/l	99
29) 1,1-Dichloropropene	5.505	75	55976	4.899	ug/l	99
30) Carbon Tetrachloride	5.499	117	49682	5.005	ug/l	100
31) Isopropyl Ether	3.994	45	105534	4.909	ug/l	99
32) Ethyl-t-butyl ether	4.502	59	94505	4.751	ug/l	99
33) Tert-Amyl methyl ether	5.943	73	84936	4.920	ug/l	99
34) Propionitrile	4.775	54	16304	25.489	ug/l	96
35) Benzene	5.753	78	156970	5.113	ug/l	96
36) 1,2-Dichloroethane	5.782	62	48312	5.065	ug/l	100
37) Trichloroethene	6.525	130	35295	4.506	ug/l	94
38) 1,2-Dichloropropane	6.782	63	33611	4.678	ug/l	98
39) Methacrylonitrile	4.972	41	12545	4.468	ug/l	96
40) Methyl acrylate	4.846	55	19739	4.749	ug/l	98
41) Tetrahydrofuran	5.058	42	13119	8.771	ug/l	99
42) 1-Chlorobutane	5.438	56	75929	4.999	ug/l	93
43) Dibromomethane	6.907	93	17942	4.821	ug/l	95
44) Bromodichloromethane	7.094	83	40349	4.807	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063514.D
Acq On : 16 Jul 2025 11:00
Operator : MD/SY
Sample : VSTDICC005
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:24:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 4-Methyl-2-Pentanone	7.798	43	95213	24.821	ug/l		99
46) t-1,4-Dichloro-2-butene	10.823	75	13369m	9.823	ug/l		
47) Methyl methacrylate	6.965	69	30554	9.775	ug/l		97
48) Ethyl methacrylate	8.335	69	29487	4.943	ug/l		95
49) Toluene	7.959	92	83681	4.993	ug/l		100
50) t-1,3-Dichloropropene	8.206	75	32573	4.946	ug/l		98
51) cis-1,3-Dichloropropene	7.602	75	43517	4.923	ug/l		99
52) 1,1,2-Trichloroethane	8.393	97	24935	4.976	ug/l		98
53) 1,3-Dichloropropane	8.569	76	42938	4.964	ug/l		98
54) 2-Hexanone	8.688	43	62636	24.583	ug/l		99
55) Dibromochloromethane	8.801	129	26834	5.067	ug/l		98
56) 1,2-Dibromoethane	8.917	107	22293	4.971	ug/l		100
58) Tetrachloroethene	8.544	164	35190	4.909	ug/l		98
59) Chlorobenzene	9.441	112	95389	4.955	ug/l		99
60) 1,1,1,2-Tetrachloroethane	9.524	131	30337	4.901	ug/l		98
61) Pentachloroethane	11.418	117	21959	5.020	ug/l		96
62) Hexachloroethane	12.466	117	22137	5.110	ug/l		97
63) Ethyl Benzene	9.563	91	163996	4.951	ug/l		99
64) m/p-Xylenes	9.685	106	127196	9.878	ug/l		98
65) o-Xylene	10.090	106	61641	4.982	ug/l		98
66) Styrene	10.106	104	99507	5.046	ug/l		98
67) Bromoform	10.283	173	13680	5.030	ug/l		99
69) Isopropylbenzene	10.476	105	149628	5.002	ug/l		100
70) 1,1,2,2-Tetrachloroethane	10.775	83	29913	4.906	ug/l		99
71) 1,2,3-Trichloropropane	10.817	75	23113m	4.645	ug/l		
72) Bromobenzene	10.775	156	38144	4.941	ug/l		99
73) n-propylbenzene	10.897	120	44825	4.978	ug/l		96
74) 2-Chlorotoluene	10.978	126	39249	4.932	ug/l		94
75) 1,3,5-Trimethylbenzene	11.081	105	143599	5.025	ug/l		100
76) 4-Chlorotoluene	11.090	126	40518	5.014	ug/l		100
77) tert-Butylbenzene	11.412	119	135731	4.970	ug/l		99
78) 1,2,4-Trimethylbenzene	11.460	105	142811	5.038	ug/l		99
79) sec-Butylbenzene	11.634	105	184683	5.015	ug/l		100
80) Nitrobenzene	13.206	77	2721	23.955	ug/l	#	90
81) p-Isopropyltoluene	11.785	119	156566	5.093	ug/l		99
82) 1,3-Dichlorobenzene	11.740	146	77340	5.007	ug/l		98
83) 1,4-Dichlorobenzene	11.830	146	76910	4.975	ug/l		99
84) n-Butylbenzene	12.200	91	145033	5.087	ug/l		100
85) 1,2-Dichlorobenzene	12.206	146	71942	4.958	ug/l		99
86) 1,2-Dibromo-3-Chloropr...	12.987	75	4378	4.863	ug/l		95
87) 1,2,4-Trichlorobenzene	13.833	180	44492	4.931	ug/l		99
88) Hexachlorobutadiene	14.013	225	25355	4.948	ug/l		99
89) Naphthalene	14.081	128	76448	4.728	ug/l		100
90) 1,2,3-Trichlorobenzene	14.322	180	41834	5.017	ug/l		99

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

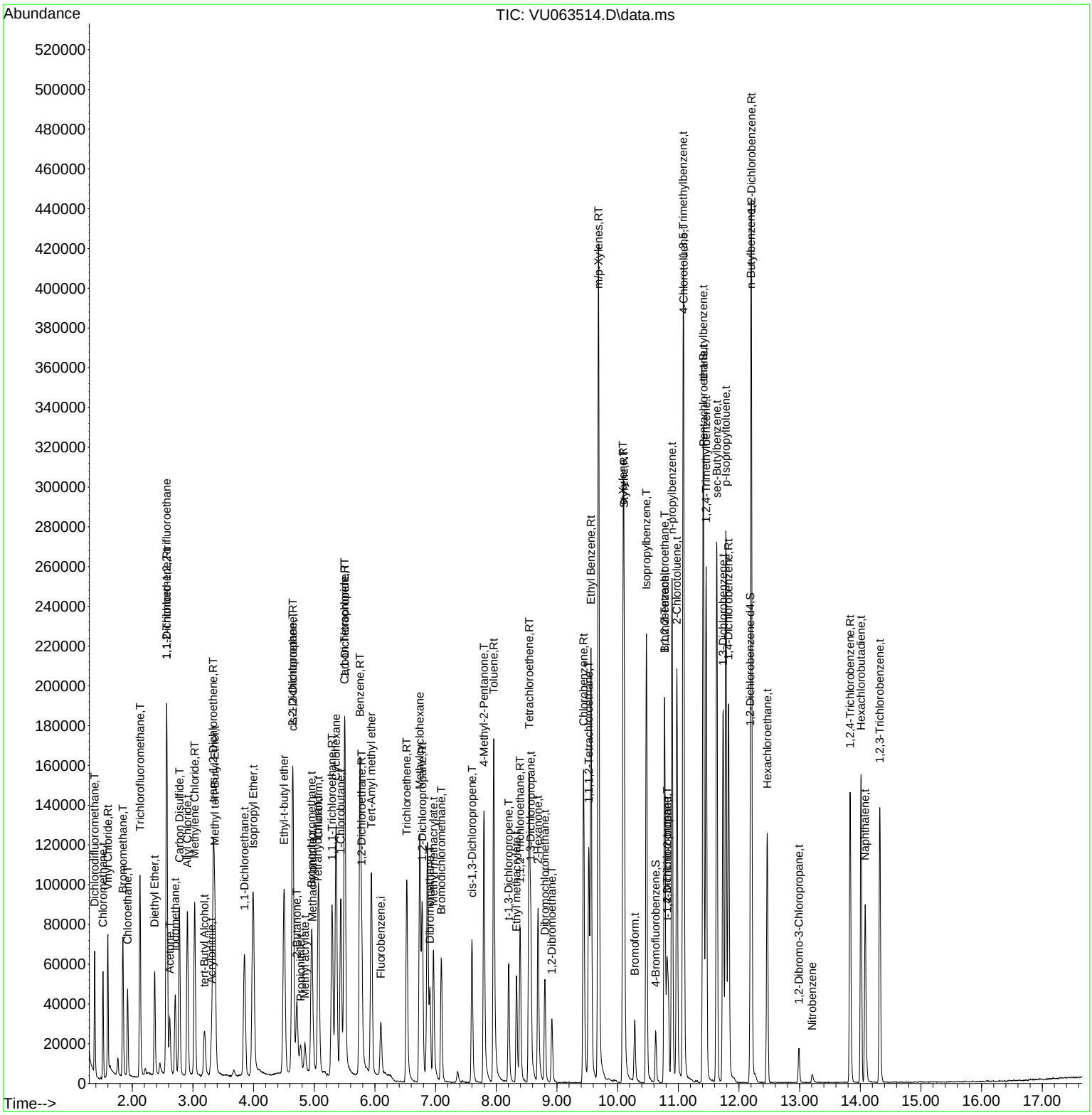
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063514.D
Acq On : 16 Jul 2025 11:00
Operator : MD/SY
Sample : VSTDICC005
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

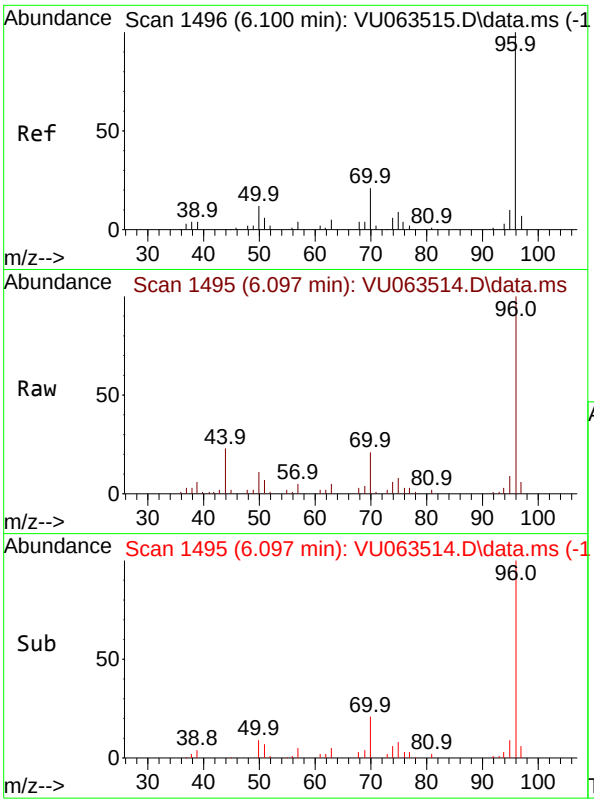
Quant Time: Jul 17 03:24:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

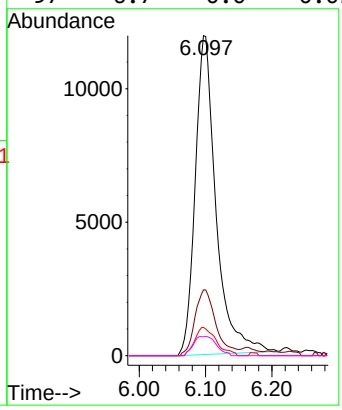




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.097 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 96 Resp: 2605

Ion	Ratio	Lower	Upper
96	100		
70	18.6	15.0	22.4
95	9.1	7.4	11.0
97	6.7	0.0	0.0#



Instrument :
MSVOA_U
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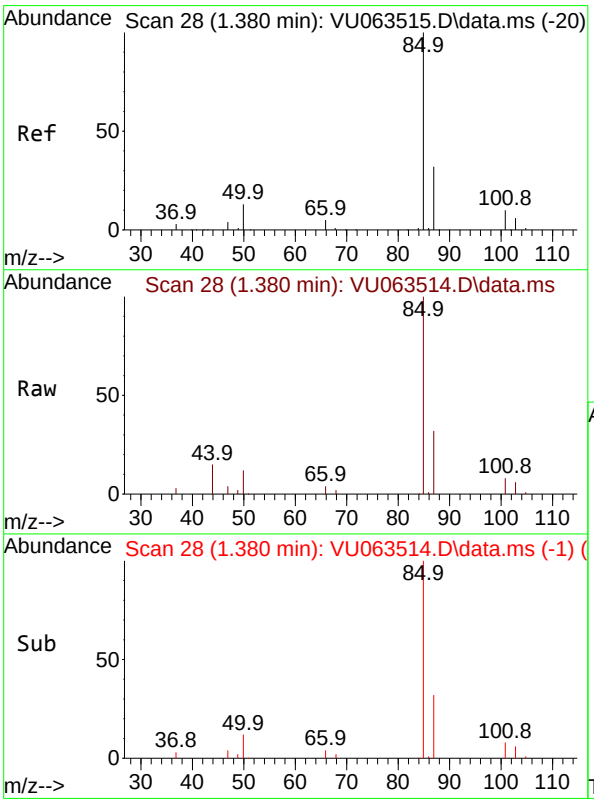
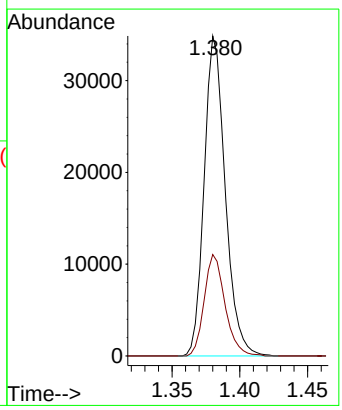
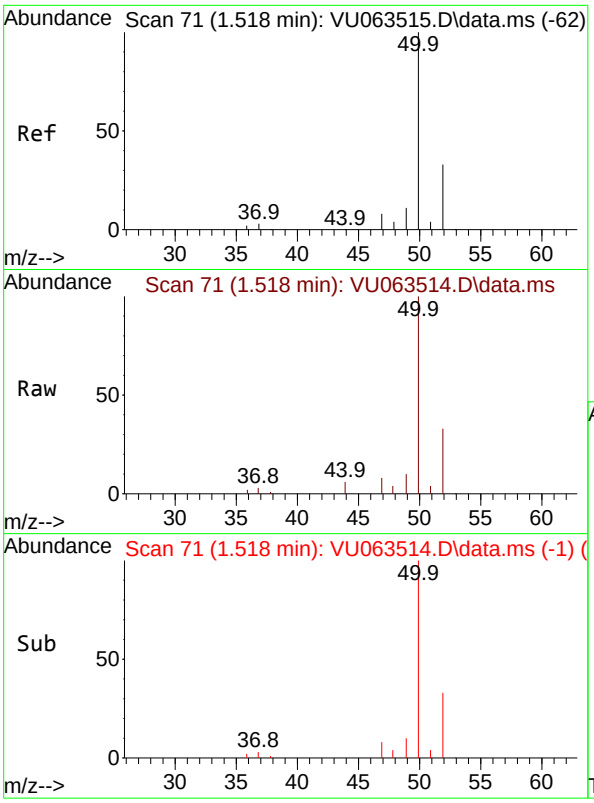


#2
Dichlorodifluoromethane
Concen: 4.918 ug/l
RT: 1.380 min Scan# 28
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 85 Resp: 37785

Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.0	47.9

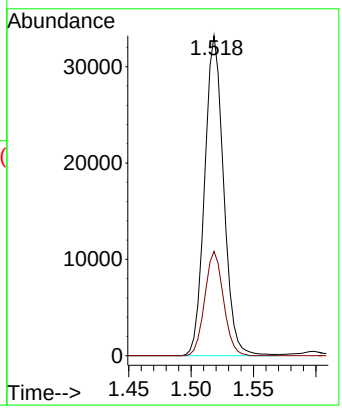




#3
Chloromethane
Concen: 4.926 ug/l
RT: 1.518 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 50 Resp: 3518

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.3	39.5



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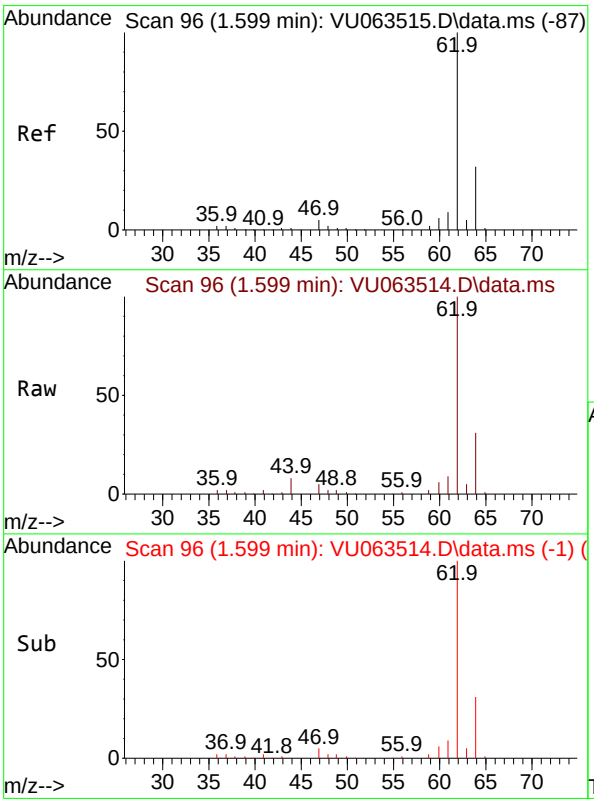
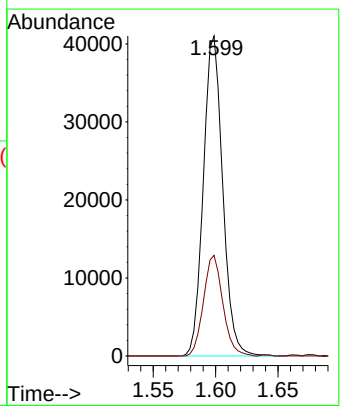
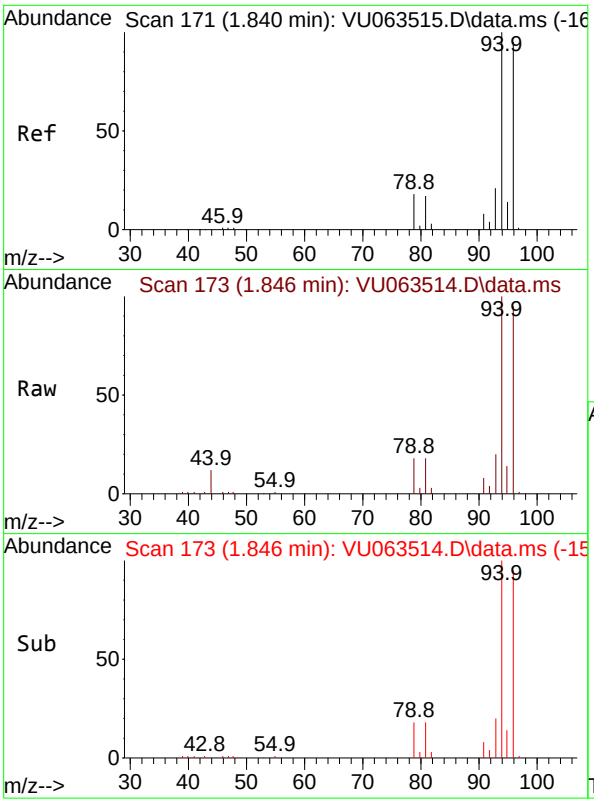


#4
Vinyl Chloride
Concen: 4.864 ug/l
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 62 Resp: 44244

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.7	38.5

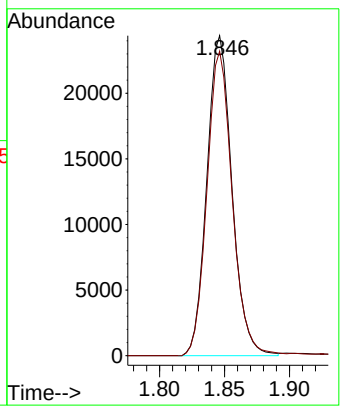




#5
Bromomethane
Concen: 4.782 ug/l
RT: 1.846 min Scan# 1
Delta R.T. 0.006 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 94 Resp: 3279

Ion	Ratio	Lower	Upper
94	100		
96	95.1	75.8	113.6



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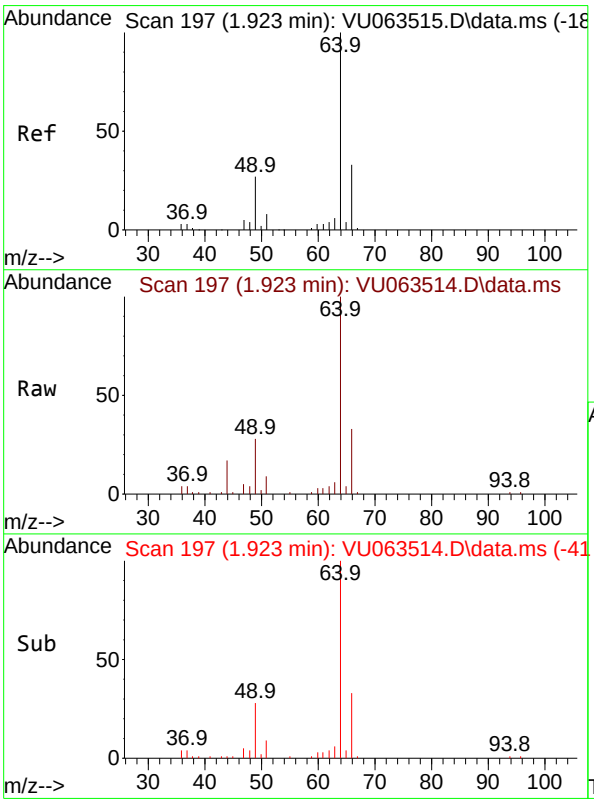
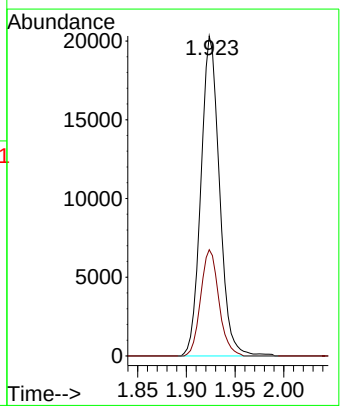
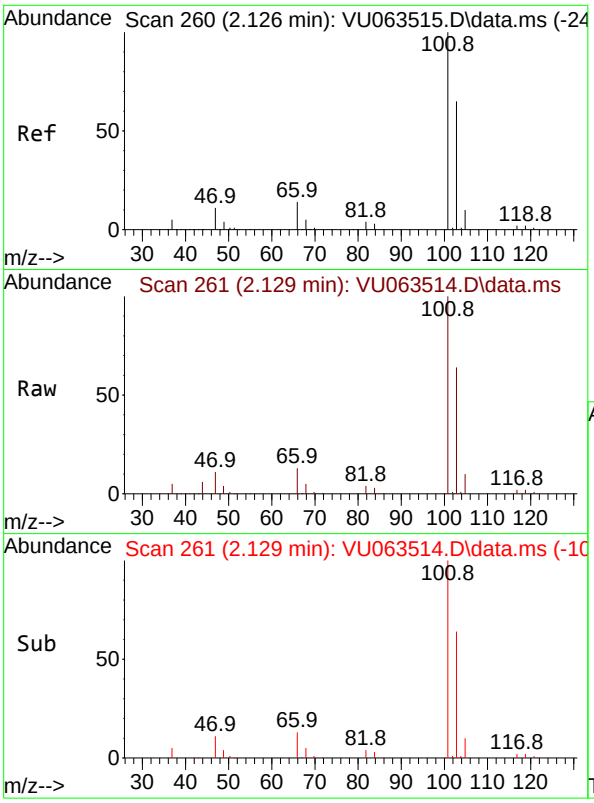


#6
Chloroethane
Concen: 4.908 ug/l
RT: 1.923 min Scan# 197
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 64 Resp: 26955

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.2	39.4





#7
Trichlorofluoromethane
Concen: 4.927 ug/l
RT: 2.129 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:101 Resp: 6434

Ion	Ratio	Lower	Upper
101	100		
103	64.2	52.2	78.4

Instrument :
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ClientSampleId :
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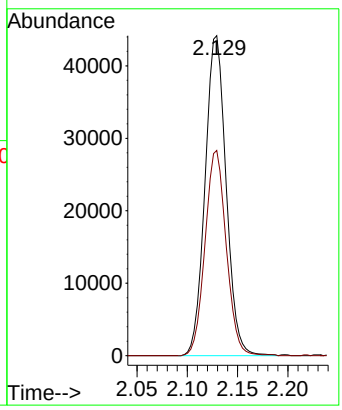
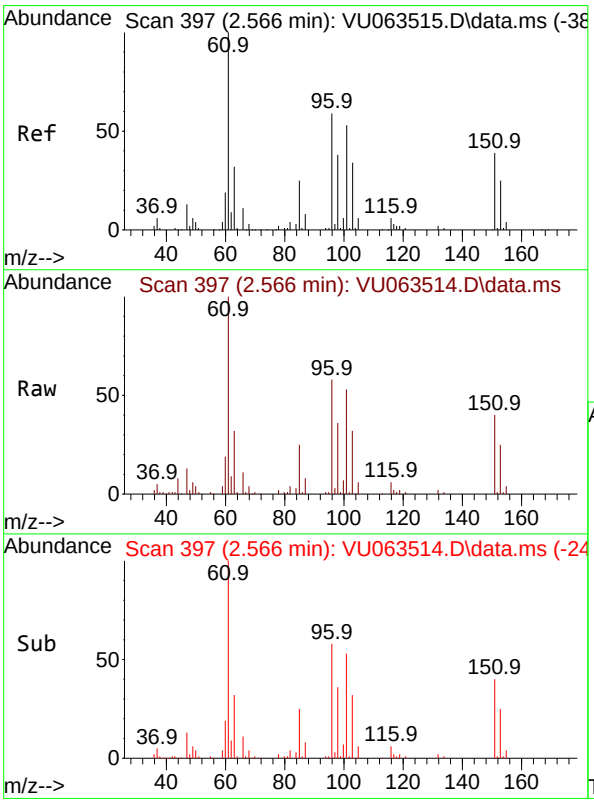
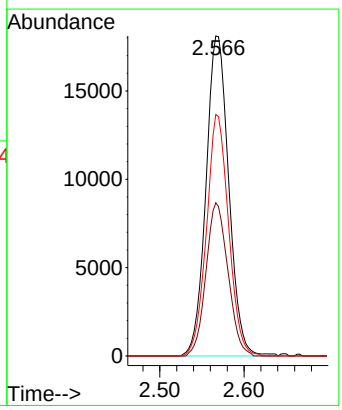


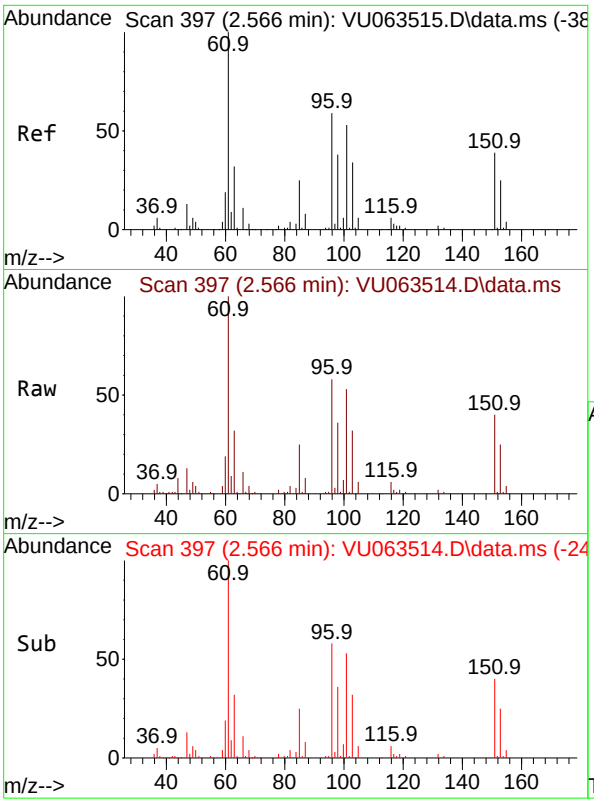


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 4.983 ug/l
RT: 2.566 min Scan# 397
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:101 Resp: 34008

Ion	Ratio	Lower	Upper
101	100		
85	46.3	37.8	56.6
151	73.2	59.2	88.8

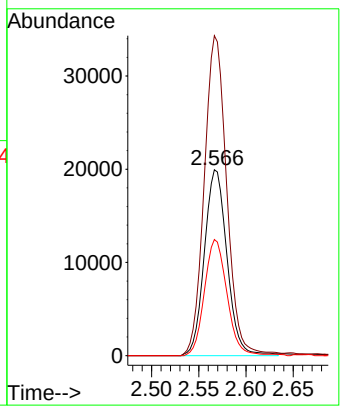




#9
1,1-Dichloroethene
Concen: 4.927 ug/l
RT: 2.566 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 96 Resp: 3332

Ion	Ratio	Lower	Upper
96	100		
61	172.1	0.0	504.3
98	62.5	0.0	126.8



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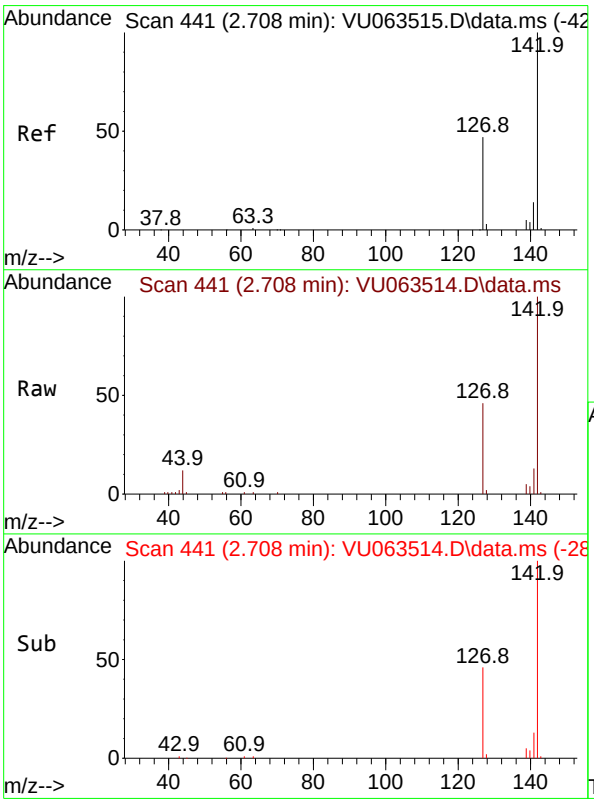
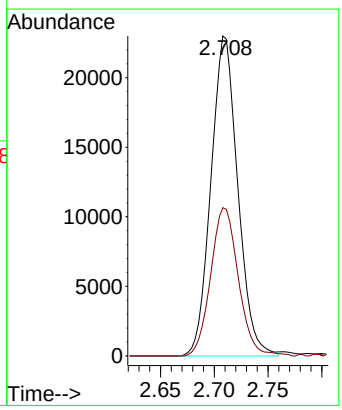
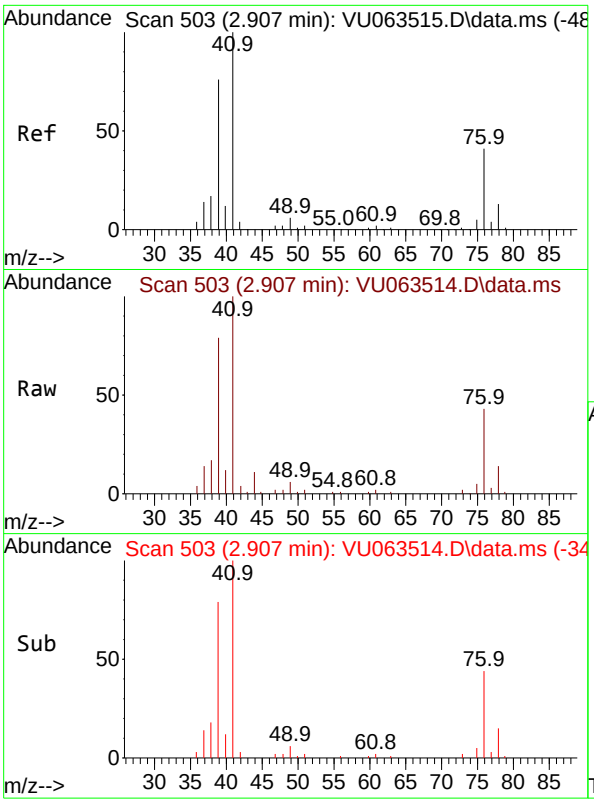


#10
Iodomethane
Concen: 4.500 ug/l
RT: 2.708 min Scan# 441
Delta R.T. -0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:142 Resp: 39902

Ion	Ratio	Lower	Upper
142	100		
127	47.8	37.9	56.9

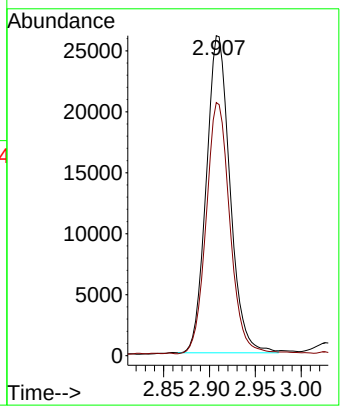




#11
Allyl Chloride
Concen: 4.791 ug/l
RT: 2.907 min Scan# 5
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 41 Resp: 4682

Ion	Ratio	Lower	Upper
41	100		
39	79.6	61.5	92.3



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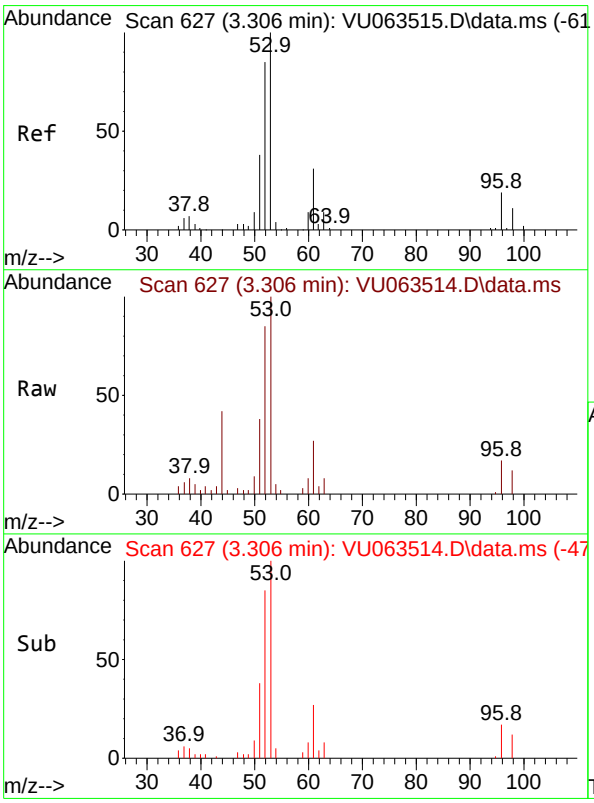
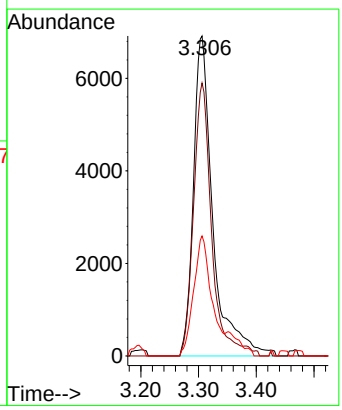
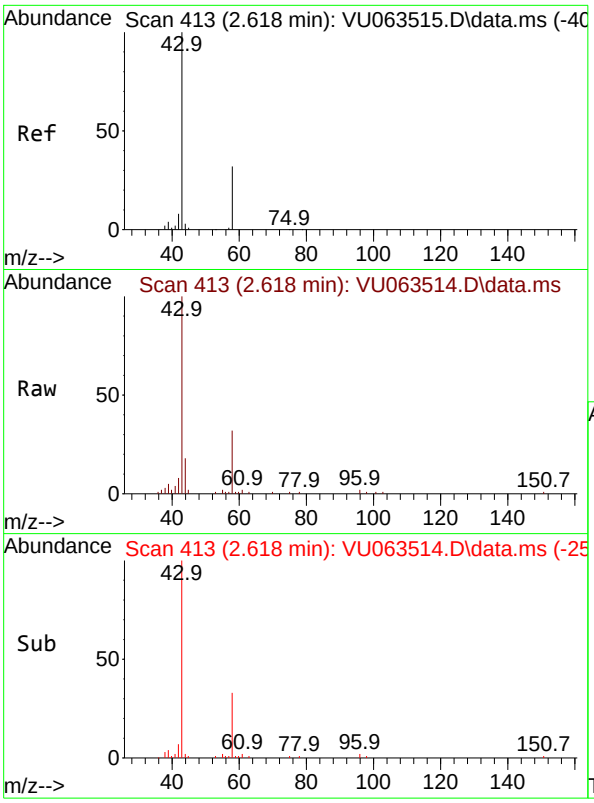


#12
Acrylonitrile
Concen: 9.586 ug/l
RT: 3.306 min Scan# 627
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 53 Resp: 16229

Ion	Ratio	Lower	Upper
53	100		
52	79.2	64.3	96.5
51	34.4	27.8	41.8





#13
Acetone
Concen: 21.677 ug/l
RT: 2.618 min Scan# 41
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 43 Resp: 2938

Ion	Ratio	Lower	Upper
43	100		
58	32.9	25.4	38.0

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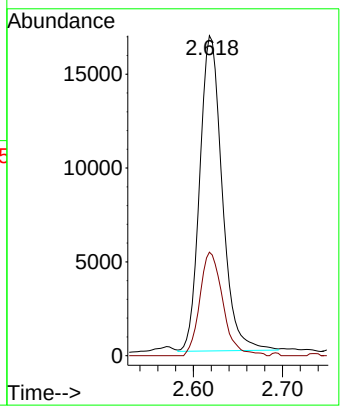
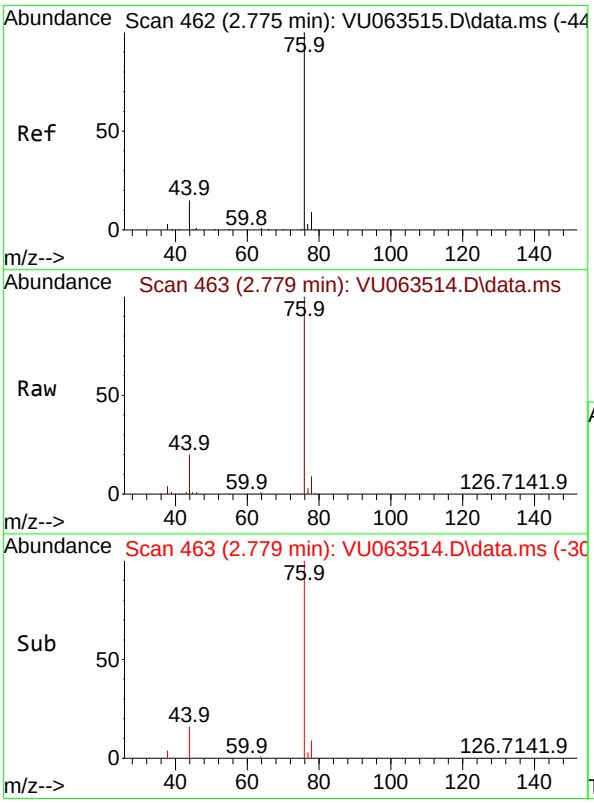
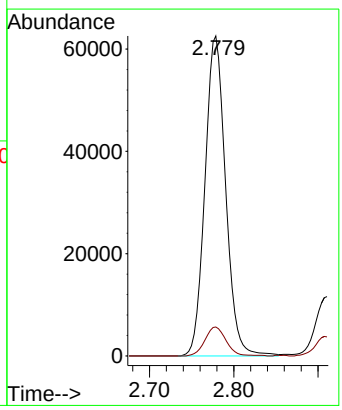


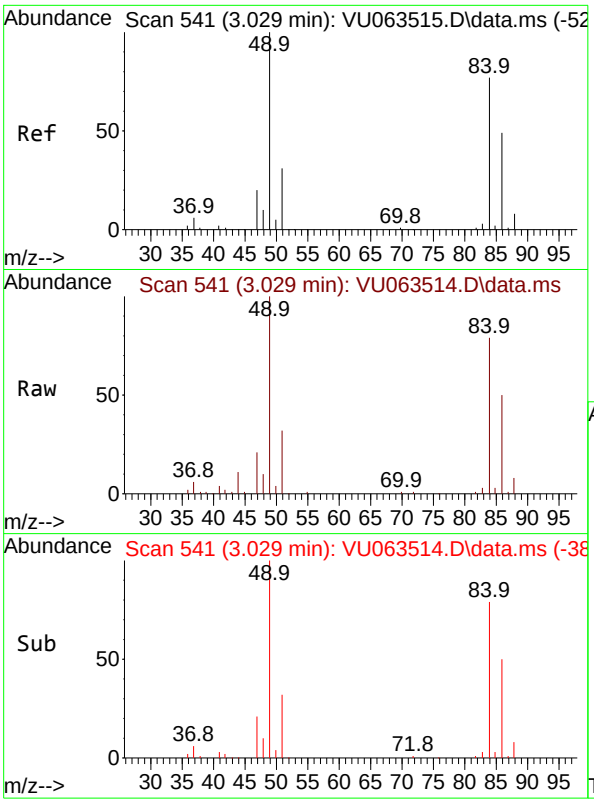


#14
Carbon Disulfide
Concen: 4.885 ug/l
RT: 2.779 min Scan# 463
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 76 Resp: 106742

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.6

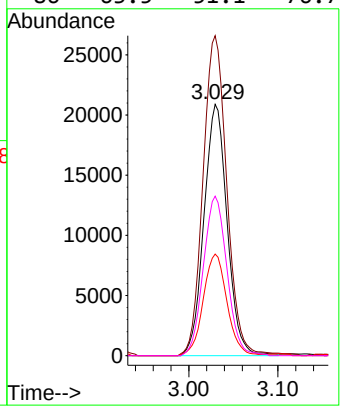




#15
Methylene Chloride
Concen: 4.742 ug/l
RT: 3.029 min Scan# 54
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 84 Resp: 3777

Ion	Ratio	Lower	Upper
84	100		
49	127.3	103.8	155.8
51	40.4	0.0	80.4
86	63.5	51.1	76.7



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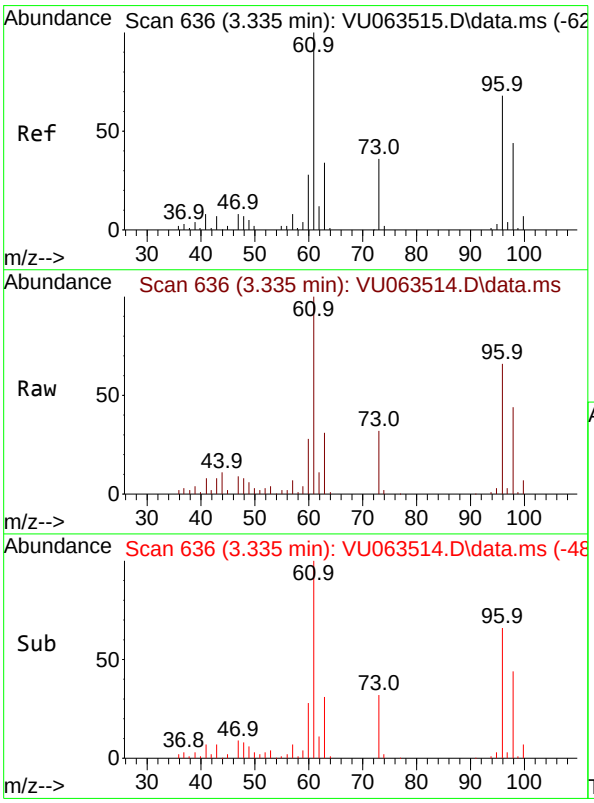
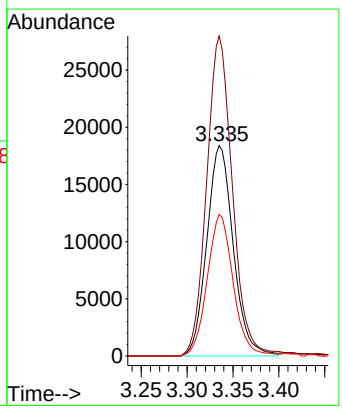
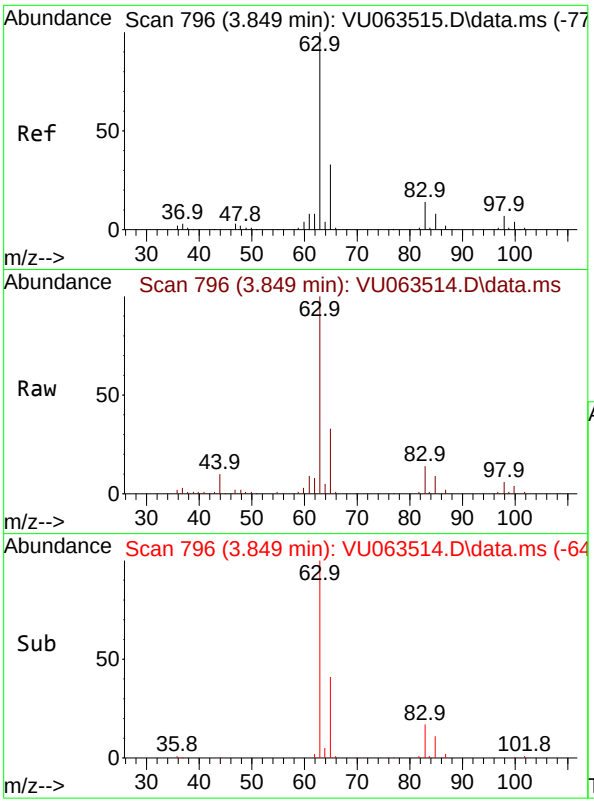


#16
trans-1,2-Dichloroethene
Concen: 4.818 ug/l
RT: 3.335 min Scan# 636
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 96 Resp: 37017

Ion	Ratio	Lower	Upper
96	100		
61	152.1	117.2	175.8
98	67.3	51.4	77.2

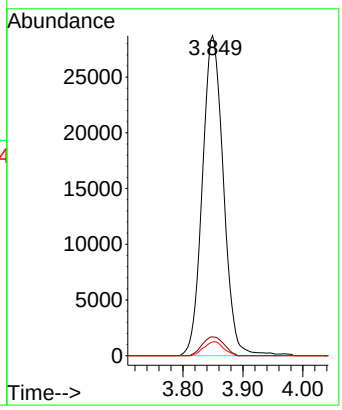




#17
1,1-Dichloroethane
Concen: 4.927 ug/l
RT: 3.849 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 63 Resp: 7016

Ion	Ratio	Lower	Upper
63	100		
98	5.8	3.4	10.2
100	4.3	2.1	6.2



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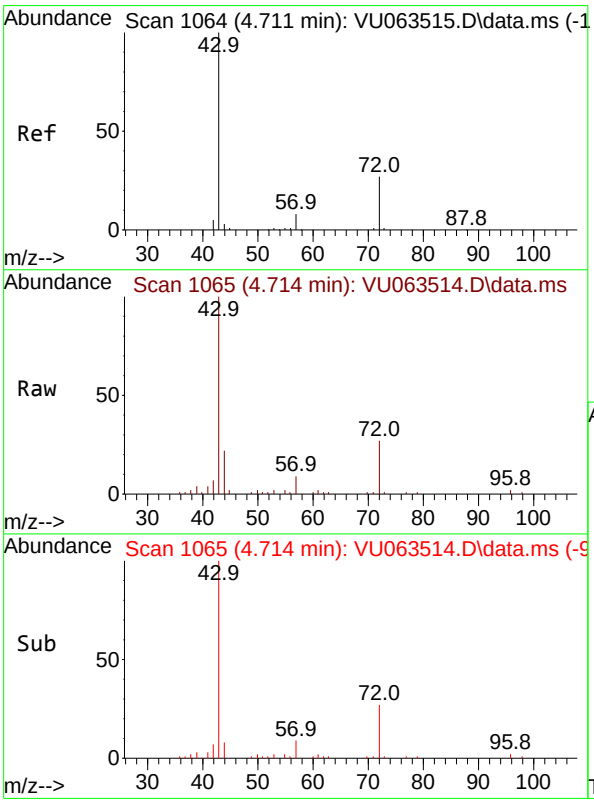
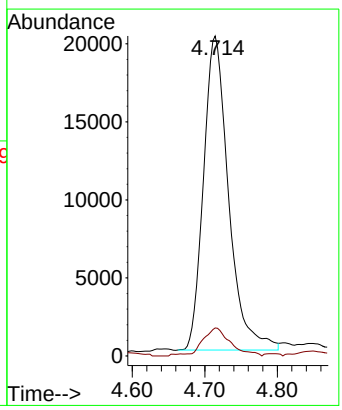
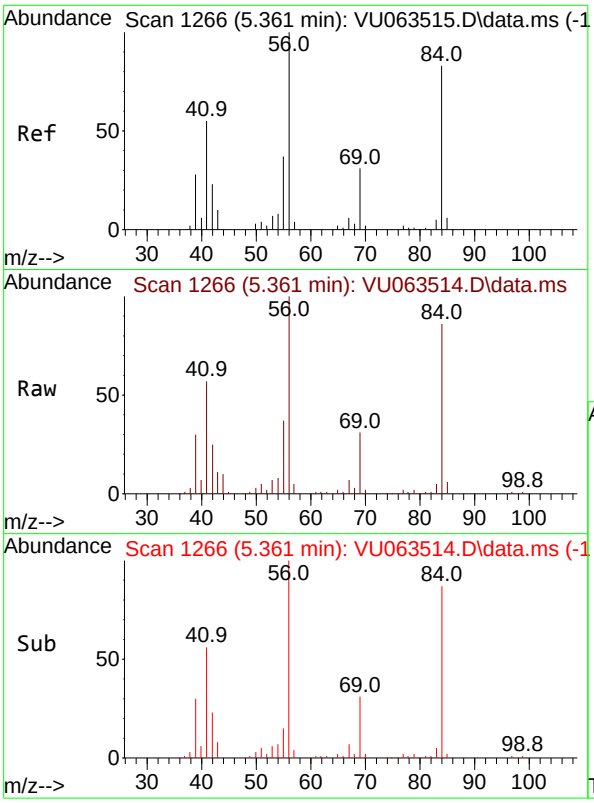


#18
2-Butanone
Concen: 23.049 ug/l
RT: 4.714 min Scan# 1065
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 43 Resp: 48390

Ion	Ratio	Lower	Upper
43	100		
57	8.3	0.0	16.4

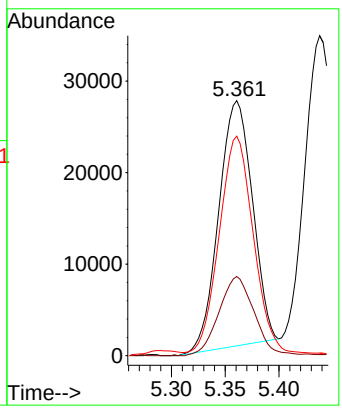




#19
Cyclohexane
Concen: 4.854 ug/l
RT: 5.361 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 56 Resp: 5852

Ion	Ratio	Lower	Upper
56	100		
69	32.7	26.6	39.8
84	88.7	71.0	106.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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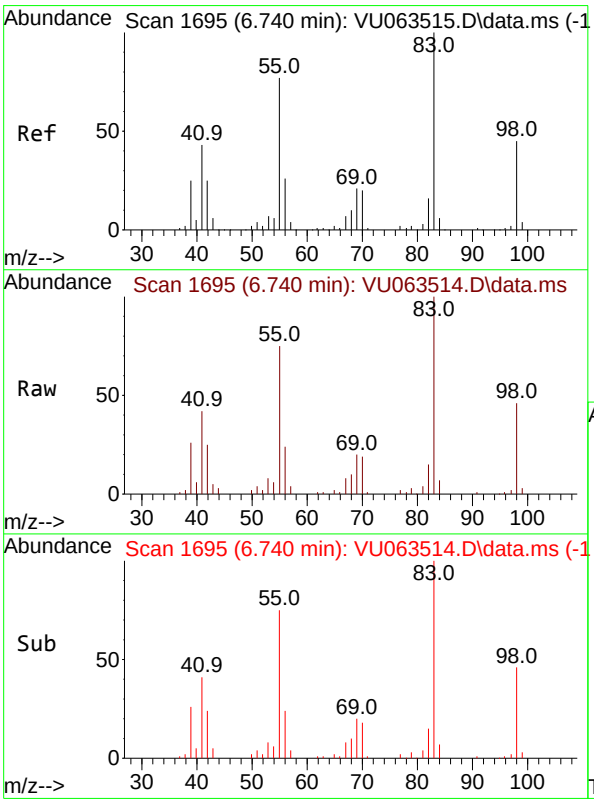
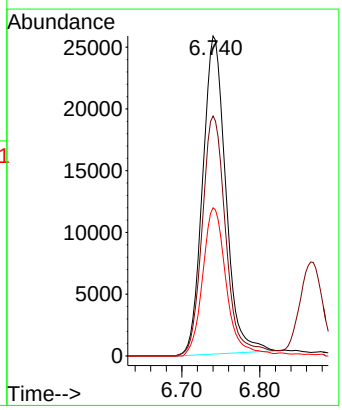
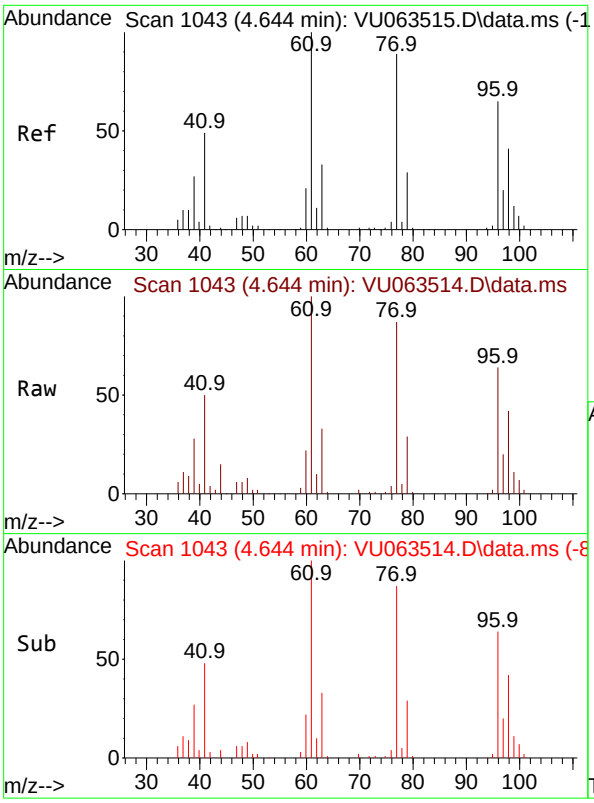


#20
Methylcyclohexane
Concen: 4.517 ug/l
RT: 6.740 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 83 Resp: 52941

Ion	Ratio	Lower	Upper
83	100		
55	74.8	60.6	90.8
98	46.5	35.8	53.8

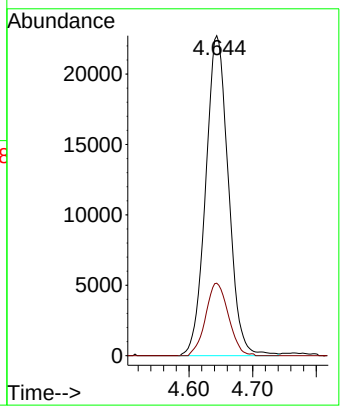




#21
2,2-Dichloropropane
Concen: 4.653 ug/l
RT: 4.644 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 77 Resp: 5641

Ion	Ratio	Lower	Upper
77	100		
97	22.8	17.8	26.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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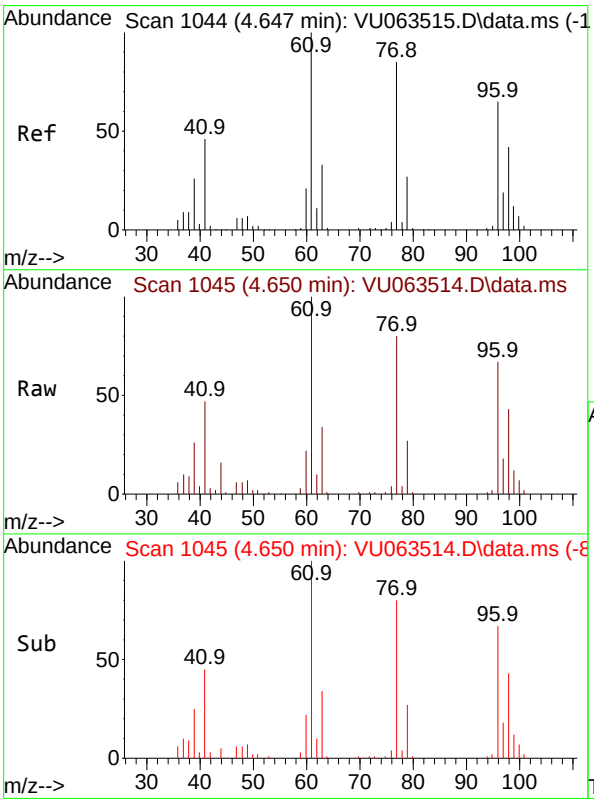
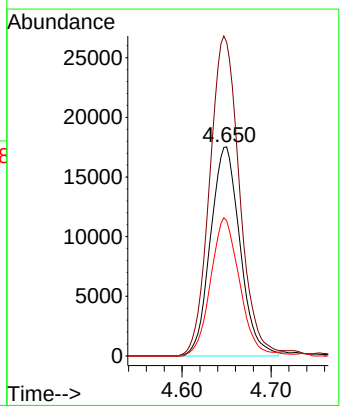
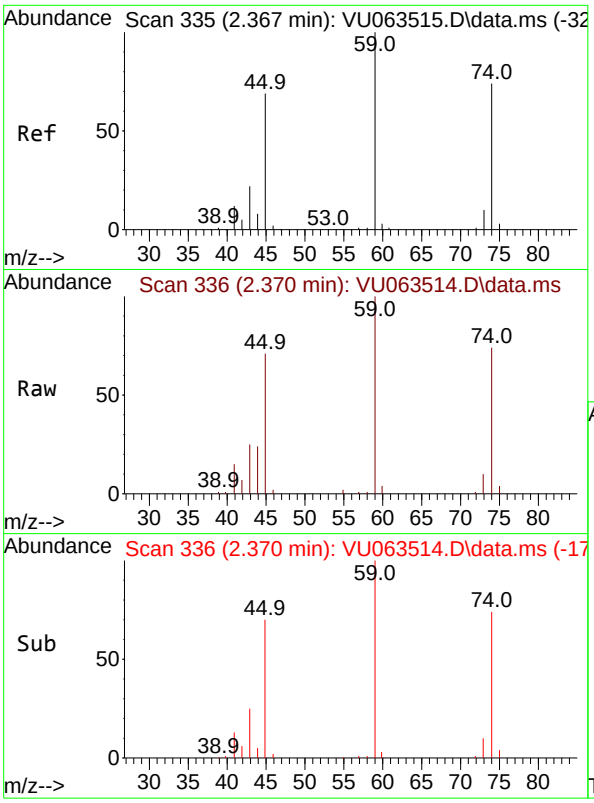


#22
cis-1,2-Dichloroethene
Concen: 4.836 ug/l
RT: 4.650 min Scan# 1045
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 96 Resp: 40321

Ion	Ratio	Lower	Upper
96	100		
61	155.3	0.0	384.7
98	65.0	32.1	96.3

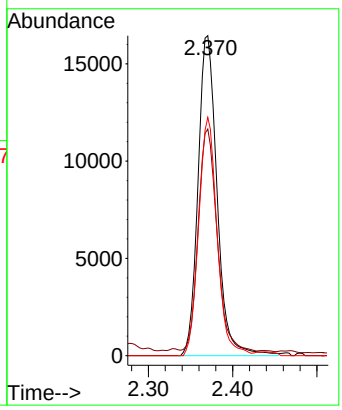




#23
Diethyl Ether
Concen: 5.030 ug/l
RT: 2.370 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 59 Resp: 2592

Ion	Ratio	Lower	Upper
59	100		
45	68.2	55.1	82.7
74	71.8	58.2	87.4



Instrument :
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ClientSampleId :
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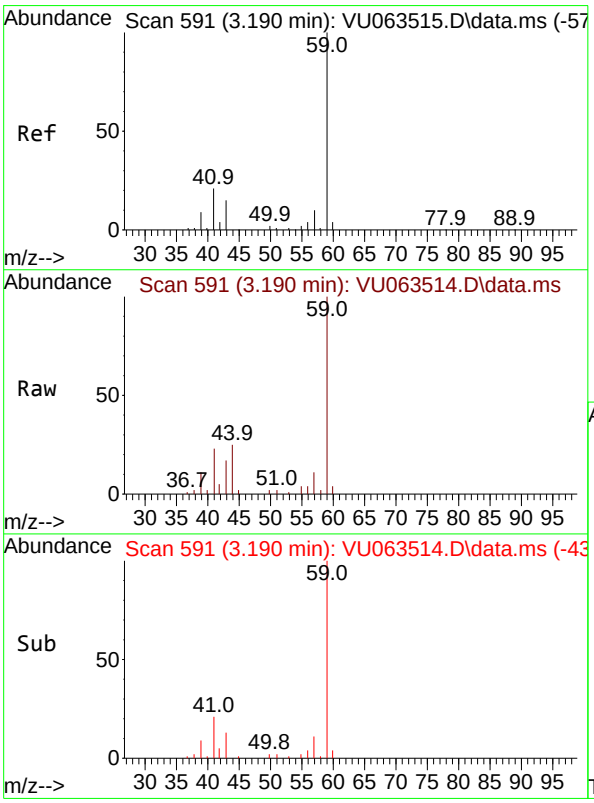
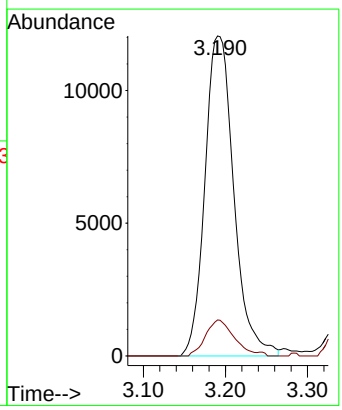
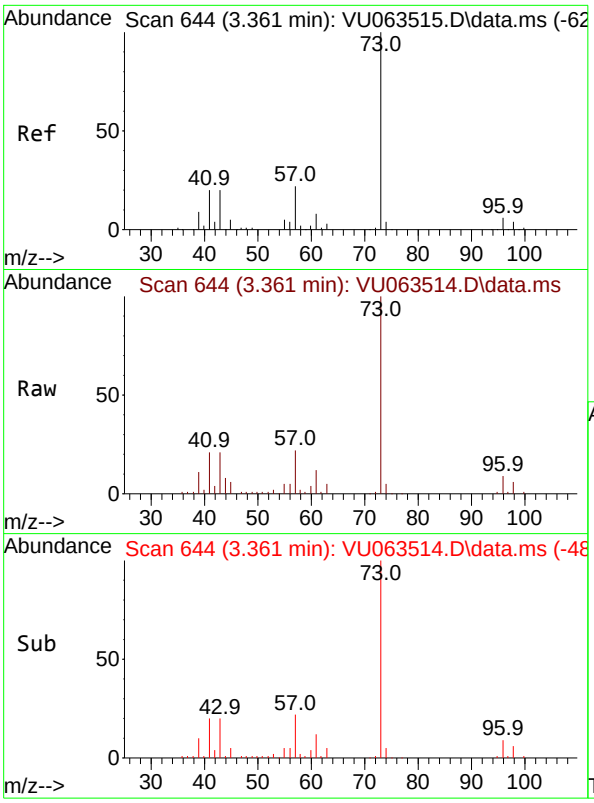


#24
tert-Butyl Alcohol
Concen: 47.503 ug/l
RT: 3.190 min Scan# 591
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 59 Resp: 29561

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	12.8





#25
Methyl tert-Butyl Ether
Concen: 4.911 ug/l
RT: 3.361 min Scan# 64
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 73 Resp: 8674

Ion	Ratio	Lower	Upper
73	100		
43	20.9	16.2	24.2

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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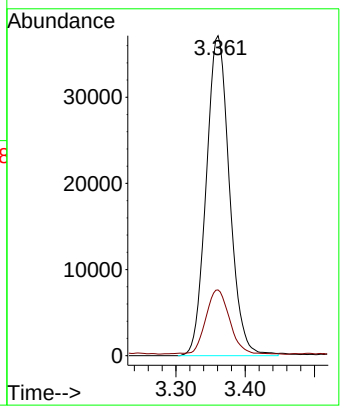
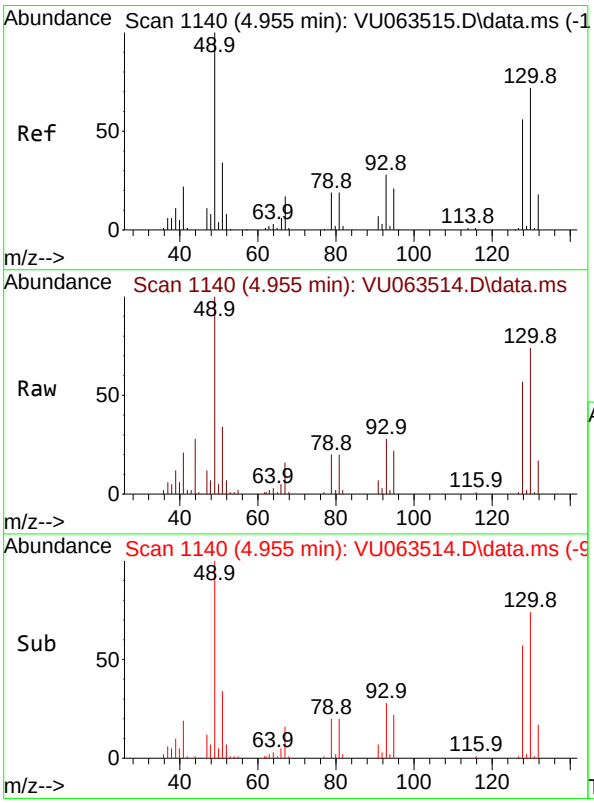
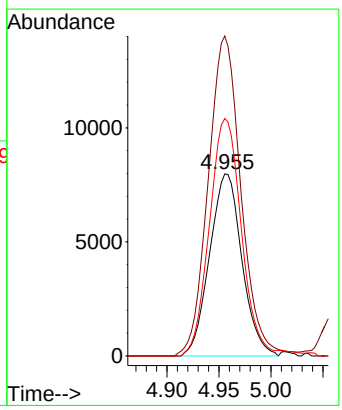


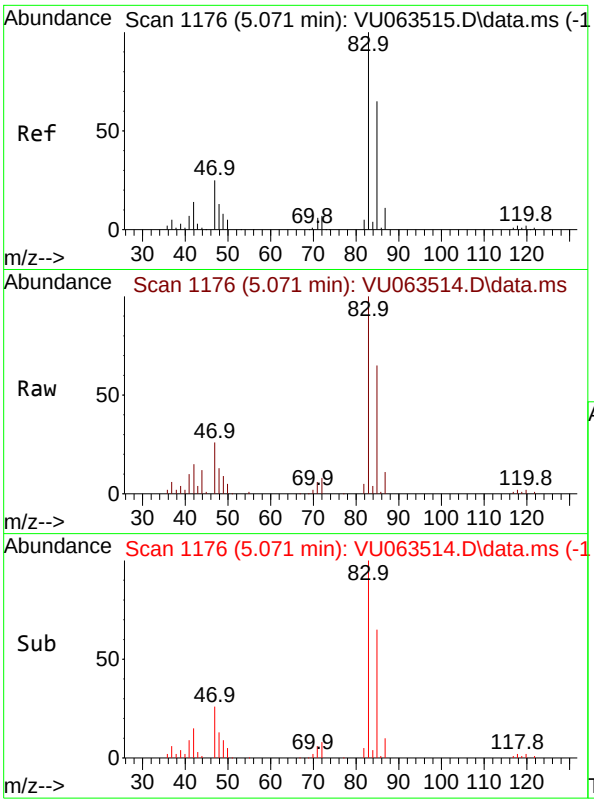


#26
Bromochloromethane
Concen: 4.953 ug/l
RT: 4.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:128 Resp: 17243

Ion	Ratio	Lower	Upper
128	100		
49	178.1	0.0	340.8
130	130.2	100.5	150.7





#27
Chloroform
Concen: 4.868 ug/l
RT: 5.071 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 83 Resp: 7073

Ion	Ratio	Lower	Upper
83	100		
85	64.9	0.0	130.0

Instrument :
MSVOA_U
ClientSampleId :
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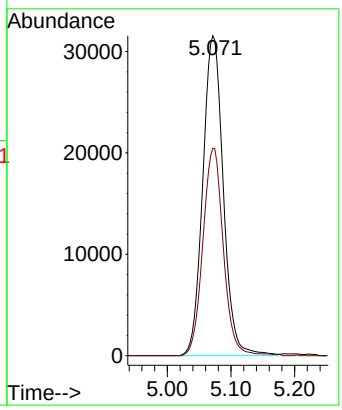
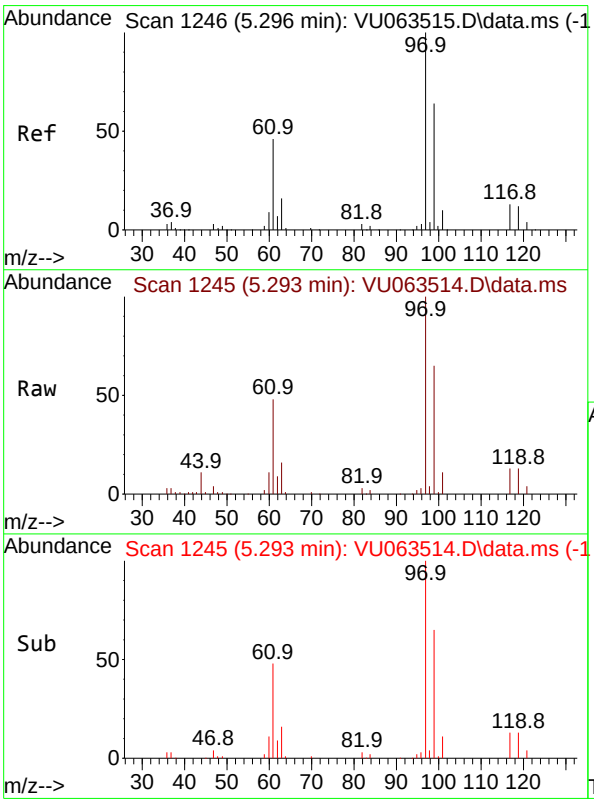
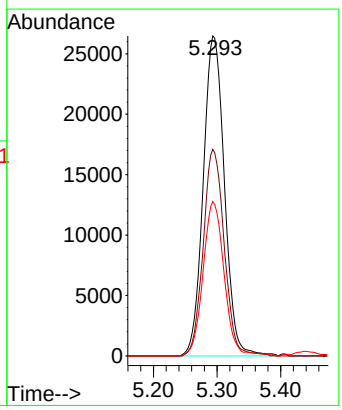


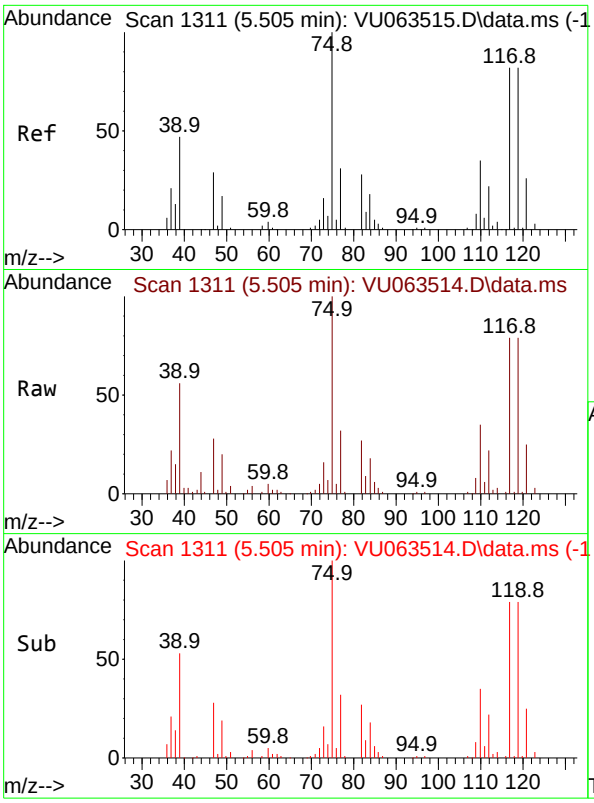


#28
1,1,1-Trichloroethane
Concen: 4.974 ug/l
RT: 5.293 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 97 Resp: 61347

Ion	Ratio	Lower	Upper
97	100		
99	63.9	31.8	95.3
61	48.0	23.3	69.9

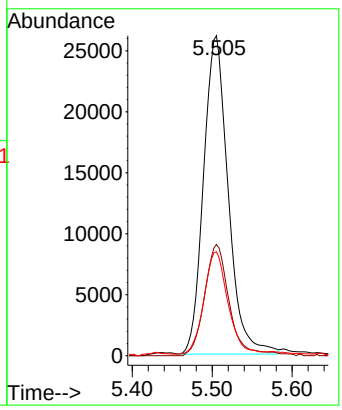




#29
1,1-Dichloropropene
Concen: 4.899 ug/l
RT: 5.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 75 Resp: 5597

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.8	53.4
77	31.0	24.6	37.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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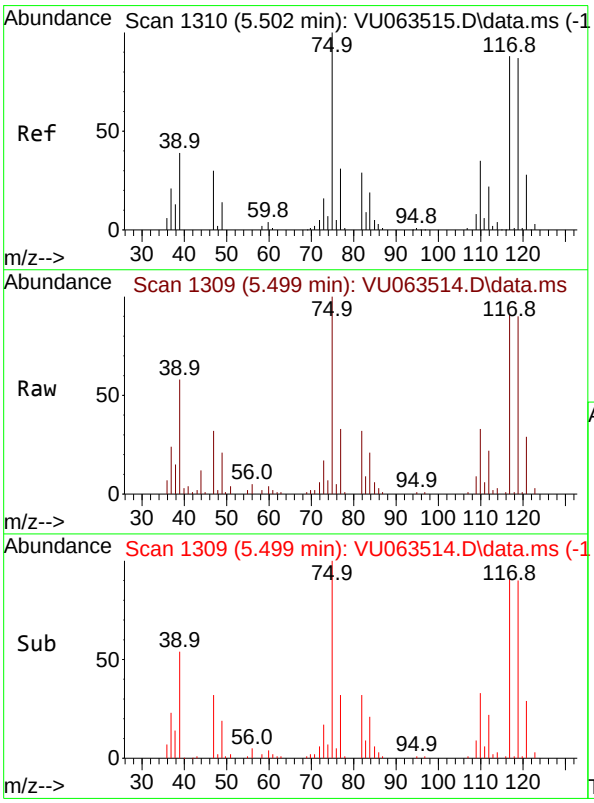
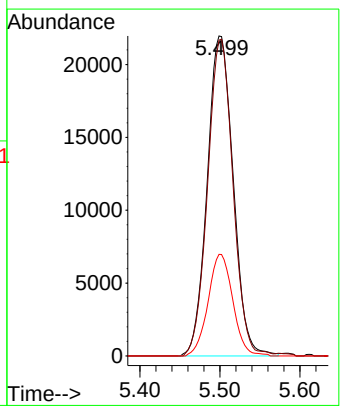
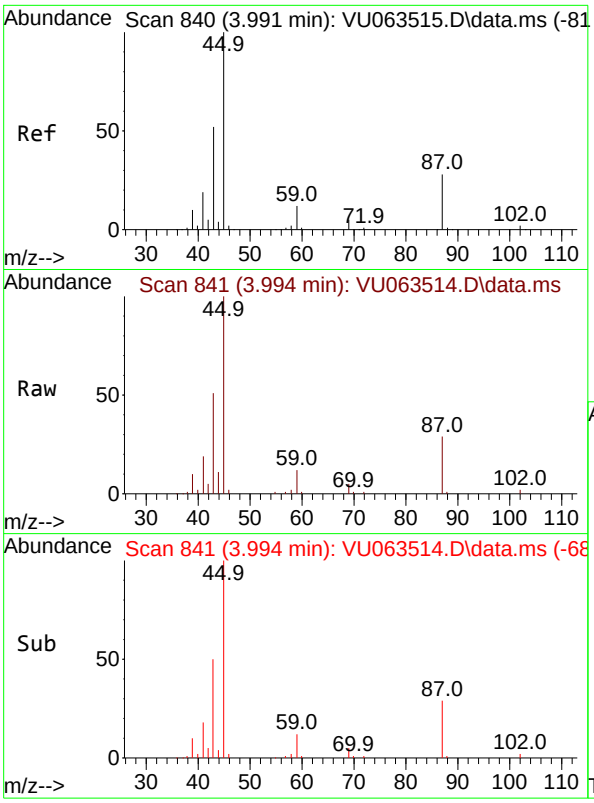


#30
Carbon Tetrachloride
Concen: 5.005 ug/l
RT: 5.499 min Scan# 1309
Delta R.T. -0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:117 Resp: 49682

Ion	Ratio	Lower	Upper
117	100		
119	98.7	79.2	118.8
121	31.8	25.5	38.3

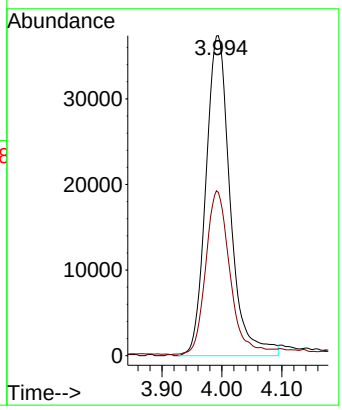




#31
Isopropyl Ether
Concen: 4.909 ug/l
RT: 3.994 min Scan# 84
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 45 Resp: 10553

Ion	Ratio	Lower	Upper
45	100		
43	50.6	25.7	77.0



Instrument :
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ClientSampleId :
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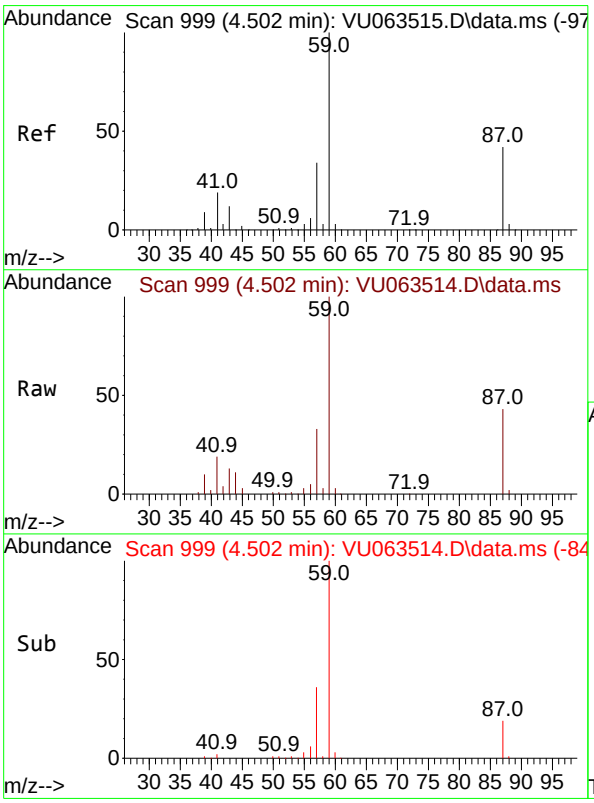
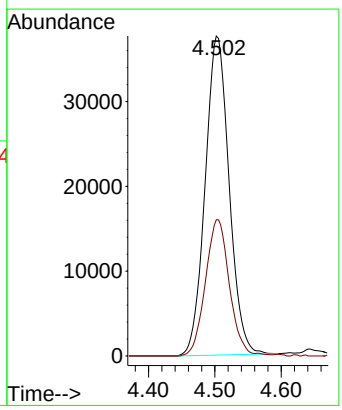
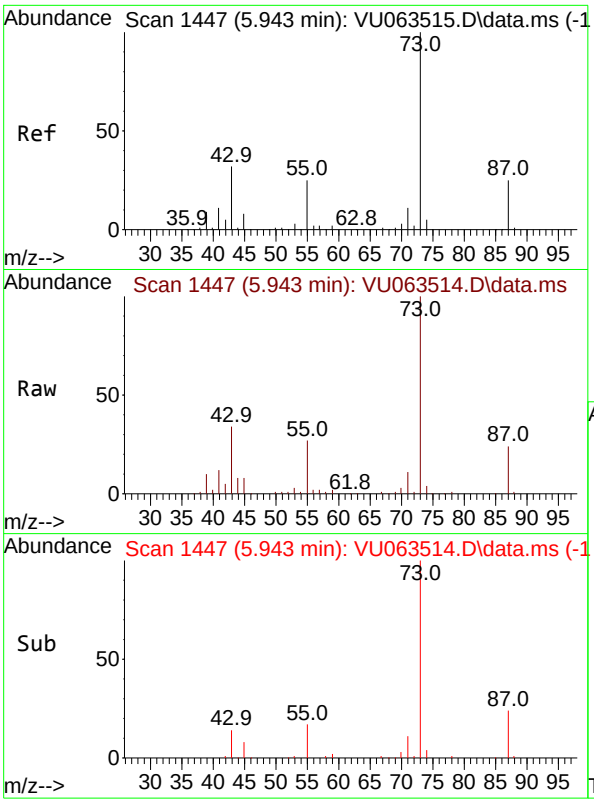


#32
Ethyl-t-butyl ether
Concen: 4.751 ug/l
RT: 4.502 min Scan# 999
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 59 Resp: 94505

Ion	Ratio	Lower	Upper
59	100		
87	41.5	32.6	49.0

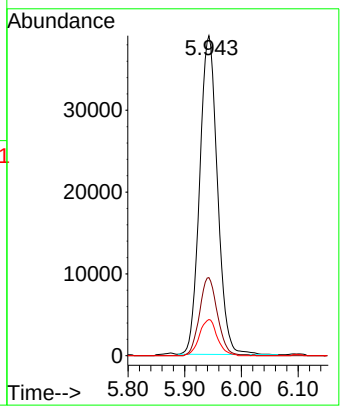




#33
Tert-Amyl methyl ether
Concen: 4.920 ug/l
RT: 5.943 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 73 Resp: 8493

Ion	Ratio	Lower	Upper
73	100		
87	24.8	19.4	29.2
71	11.4	8.9	13.3



Instrument :
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ClientSampleId :
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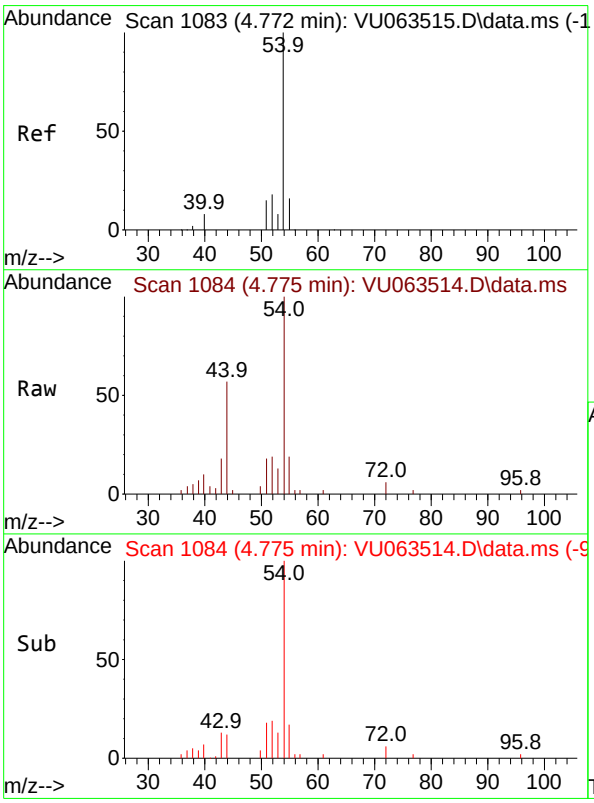
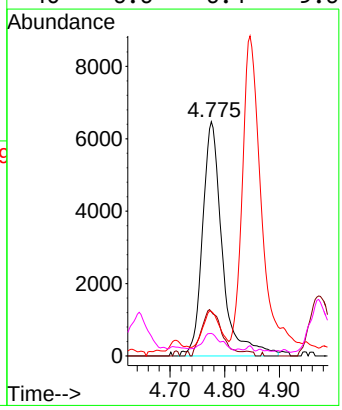
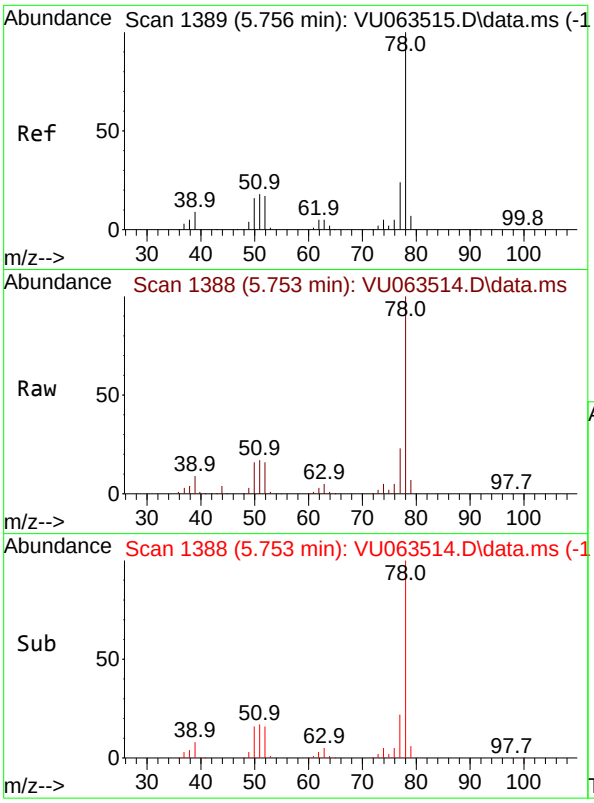


#34
Propionitrile
Concen: 25.489 ug/l
RT: 4.775 min Scan# 1084
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 54 Resp: 16304

Ion	Ratio	Lower	Upper
54	100		
52	20.2	17.0	25.4
55	13.8	13.6	20.4
40	6.6	6.4	9.6

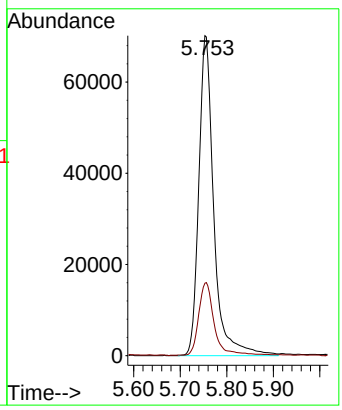




#35
Benzene
Concen: 5.113 ug/l
RT: 5.753 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 78 Resp: 15697

Ion	Ratio	Lower	Upper
78	100		
77	22.5	19.4	29.2



Instrument :
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ClientSampleId :
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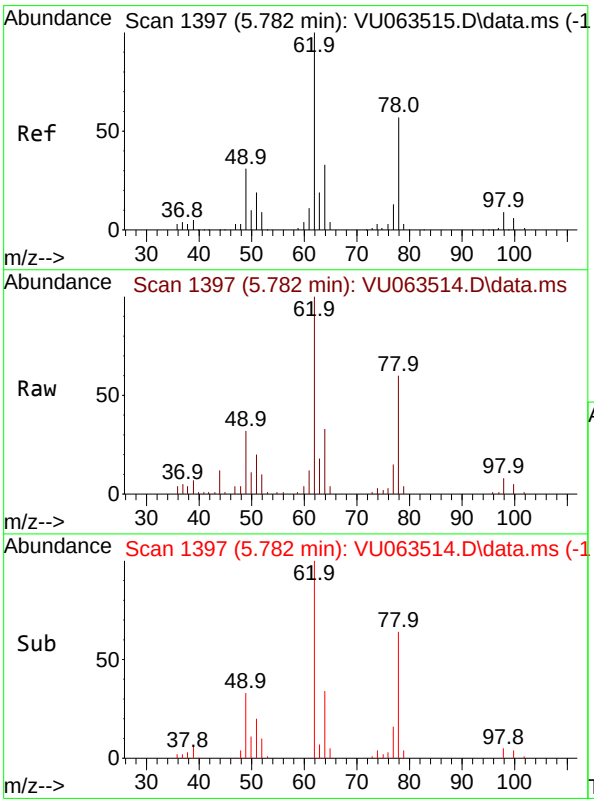
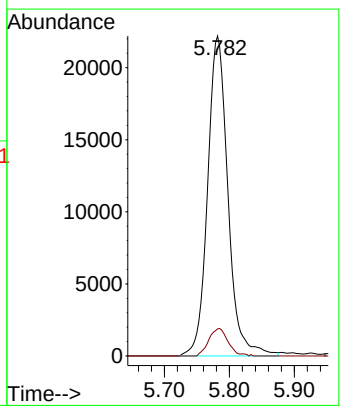
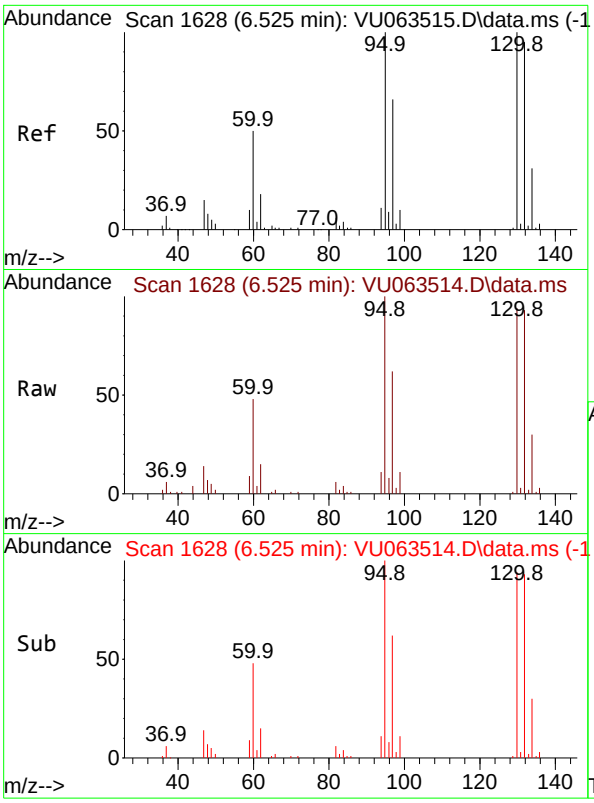


#36
1,2-Dichloroethane
Concen: 5.065 ug/l
RT: 5.782 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 62 Resp: 48312

Ion	Ratio	Lower	Upper
62	100		
98	8.2	6.4	9.6

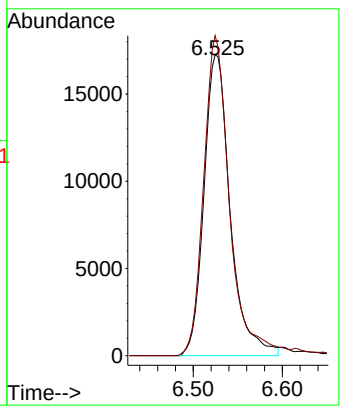




#37
Trichloroethene
Concen: 4.506 ug/l
RT: 6.525 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:130 Resp: 3529

Ion	Ratio	Lower	Upper
130	100		
95	106.3	80.3	120.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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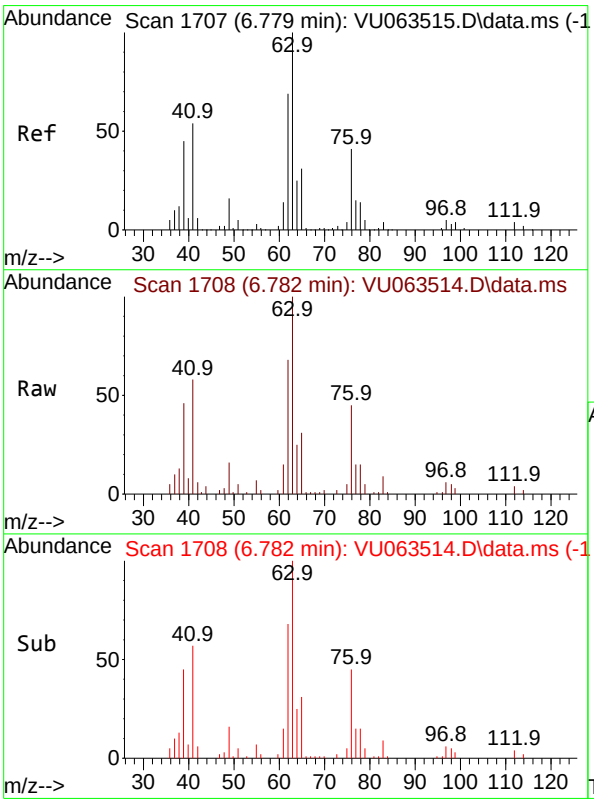
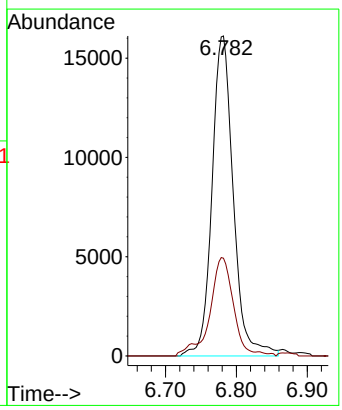
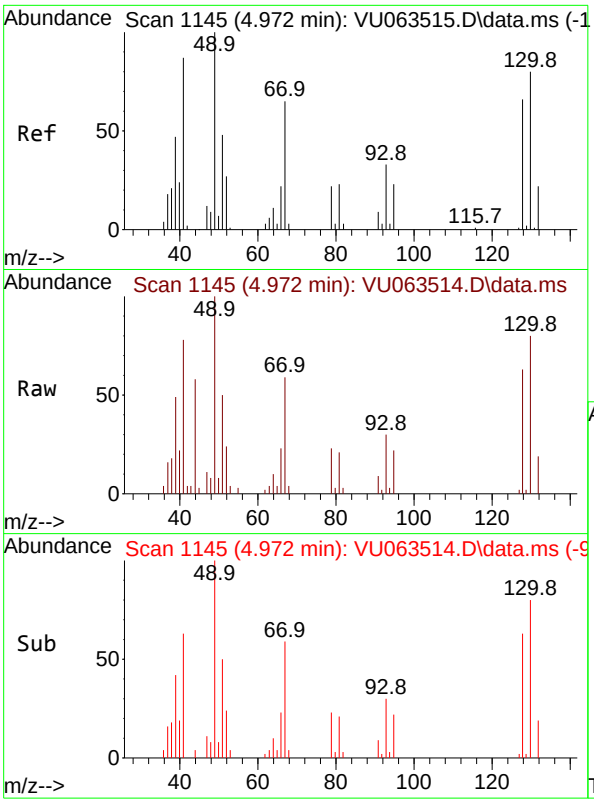


#38
1,2-Dichloropropane
Concen: 4.678 ug/l
RT: 6.782 min Scan# 1708
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 63 Resp: 33611

Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.6	36.8

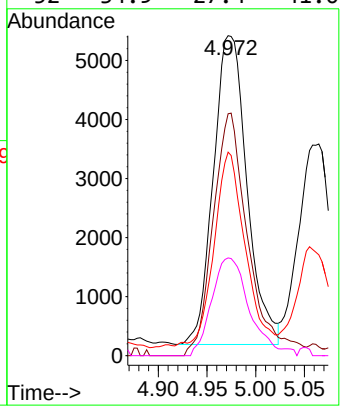




#39
Methacrylonitrile
Concen: 4.468 ug/l
RT: 4.972 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 41 Resp: 1254

Ion	Ratio	Lower	Upper
41	100		
67	82.1	62.7	94.1
39	57.1	43.1	64.7
52	34.9	27.4	41.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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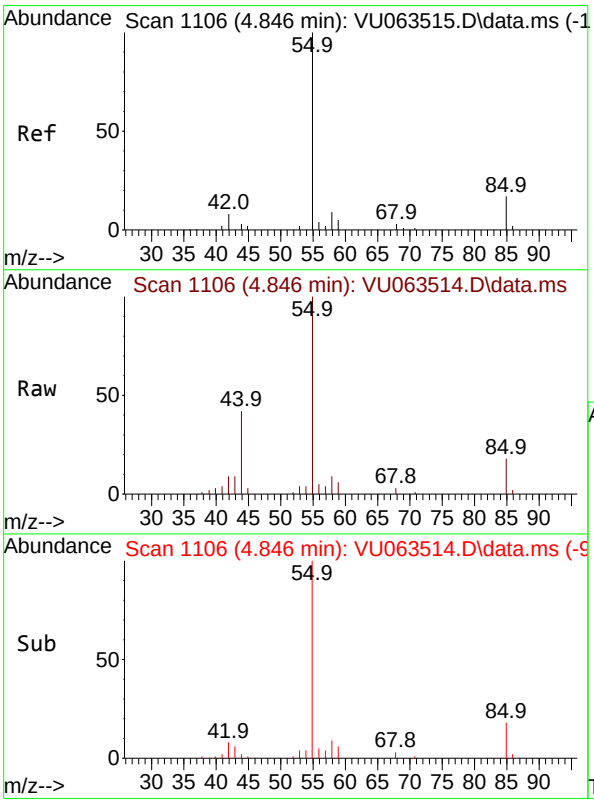
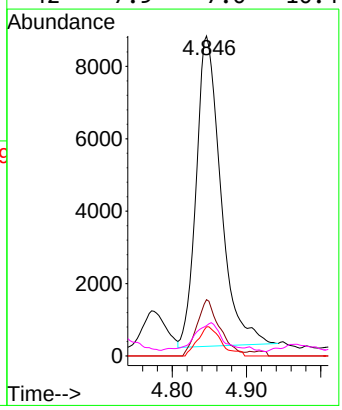
Supervised By :Semsettin Yesilyurt 07/17/2025

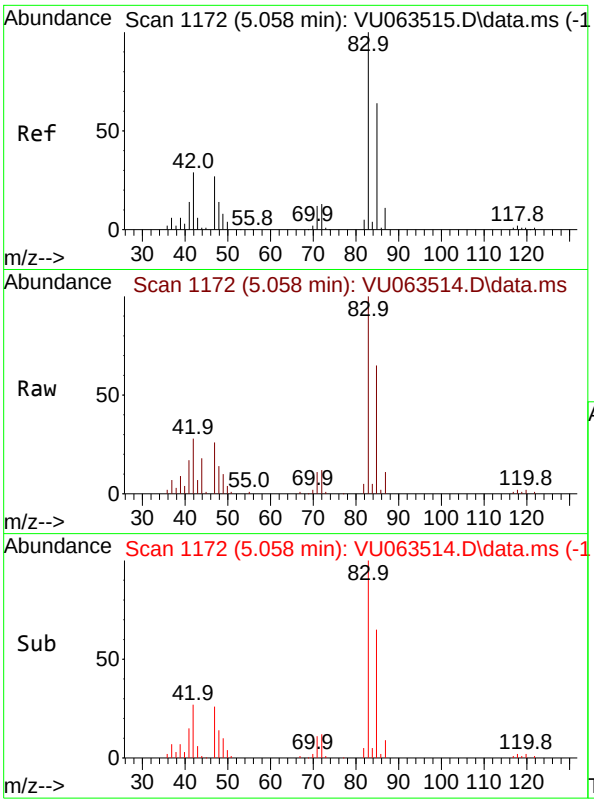


#40
Methyl acrylate
Concen: 4.749 ug/l
RT: 4.846 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 55 Resp: 19739

Ion	Ratio	Lower	Upper
55	100		
85	16.8	12.8	19.2
58	9.0	7.0	10.4
42	7.9	7.0	10.4

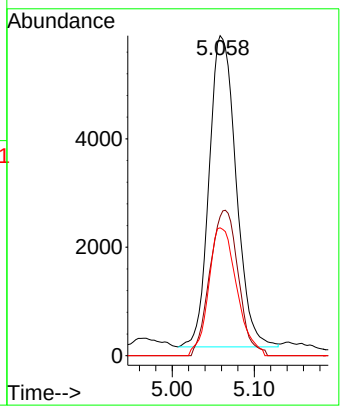




#41
Tetrahydrofuran
Concen: 8.771 ug/l
RT: 5.058 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 42 Resp: 1311

Ion	Ratio	Lower	Upper
42	100		
72	49.2	39.2	58.8
71	42.8	34.8	52.2



Instrument :
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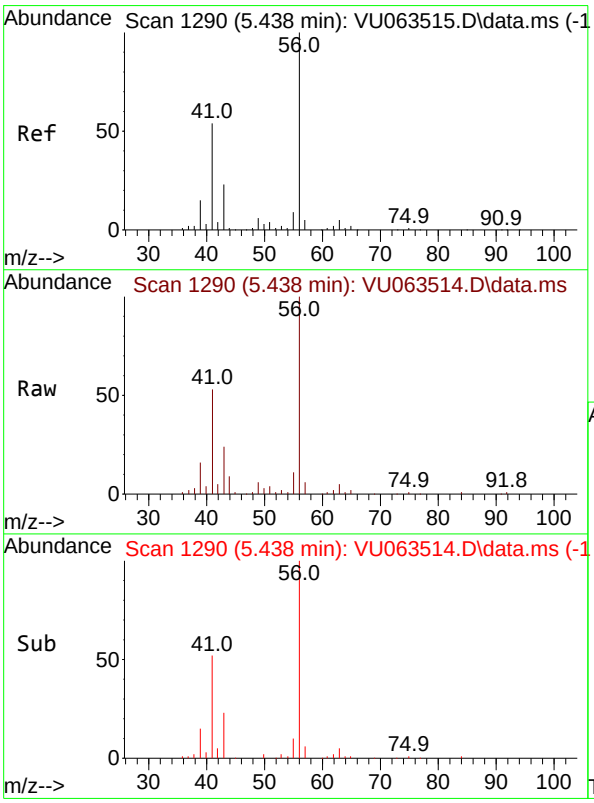
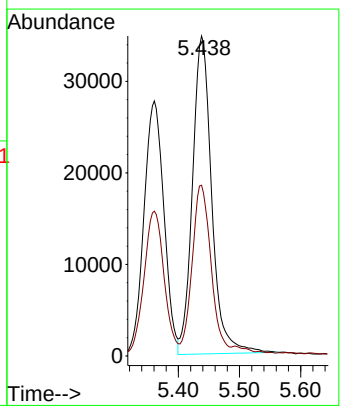
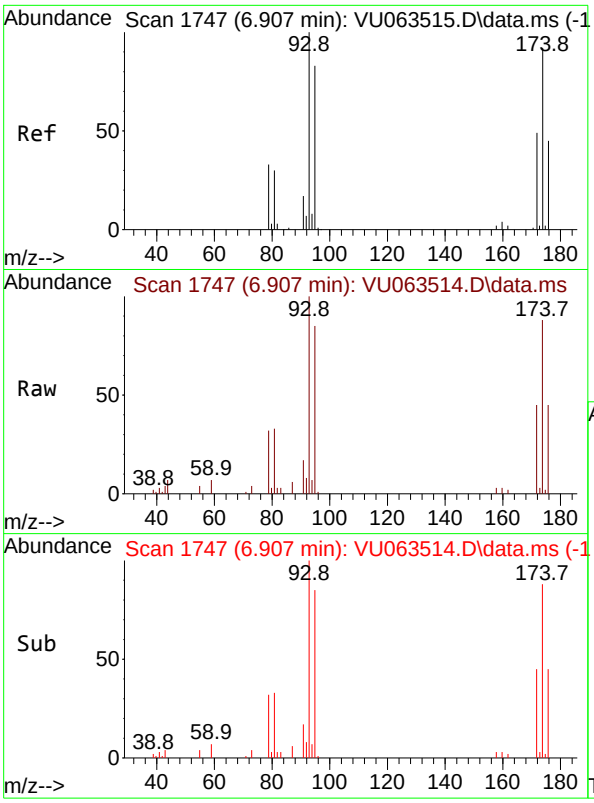


#42
1-Chlorobutane
Concen: 4.999 ug/l
RT: 5.438 min Scan# 1290
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 56 Resp: 75929

Ion	Ratio	Lower	Upper
56	100		
41	48.2	26.7	80.0

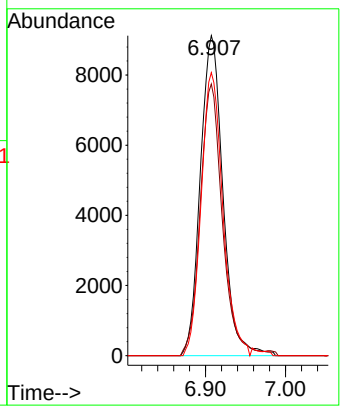




#43
Dibromomethane
Concen: 4.821 ug/l
RT: 6.907 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 93 Resp: 1794

Ion	Ratio	Lower	Upper
93	100		
95	83.0	67.9	101.9
174	85.0	74.6	111.8



Instrument :
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ClientSampleId :
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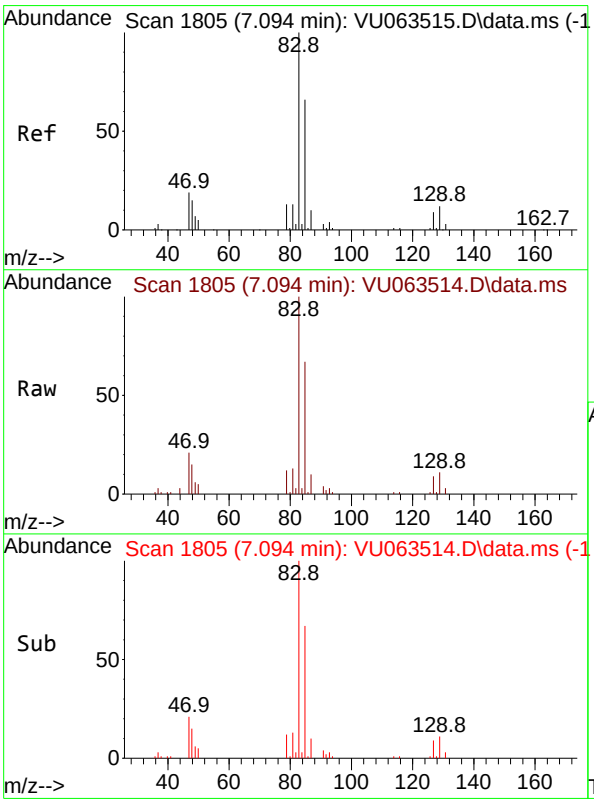
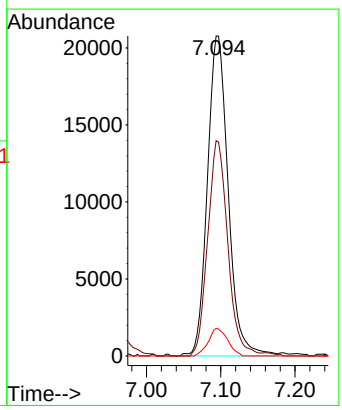
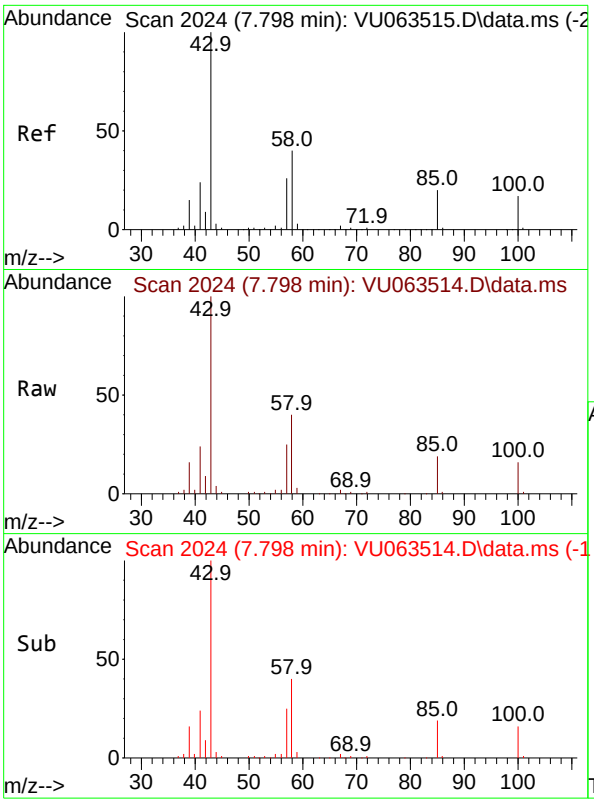


#44
Bromodichloromethane
Concen: 4.807 ug/l
RT: 7.094 min Scan# 1805
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 83 Resp: 40349

Ion	Ratio	Lower	Upper
83	100		
85	67.3	52.7	79.1
127	8.6	8.1	12.1

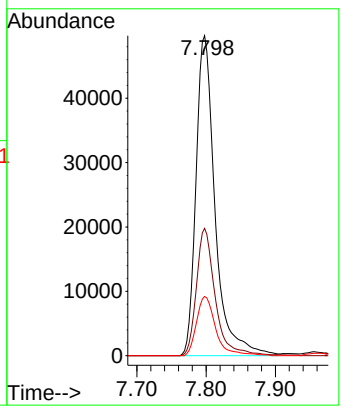




#45
4-Methyl-2-Pentanone
Concen: 24.821 ug/l
RT: 7.798 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 43 Resp: 9521

Ion	Ratio	Lower	Upper
43	100		
58	39.3	20.0	60.0
85	18.7	15.4	23.0



Instrument :
MSVOA_U
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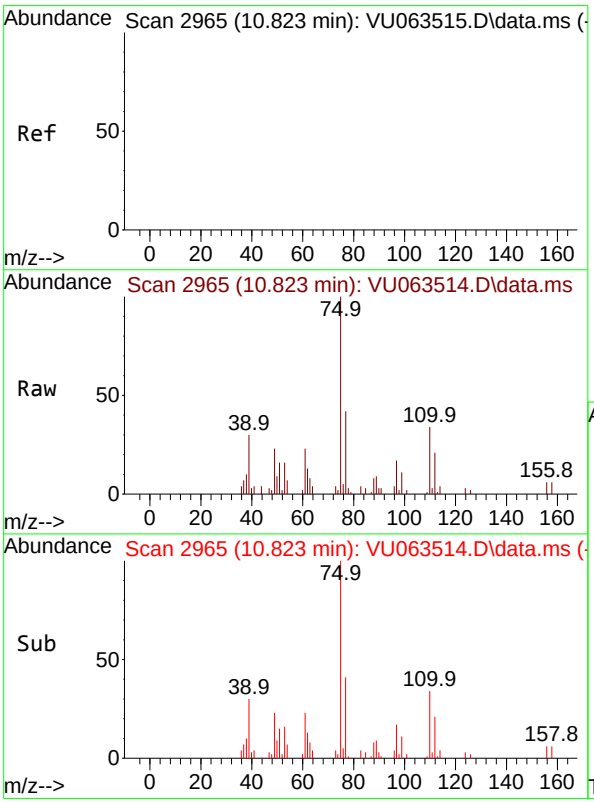
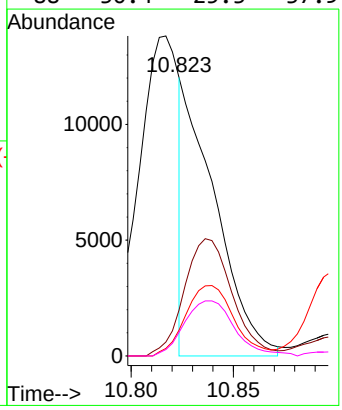
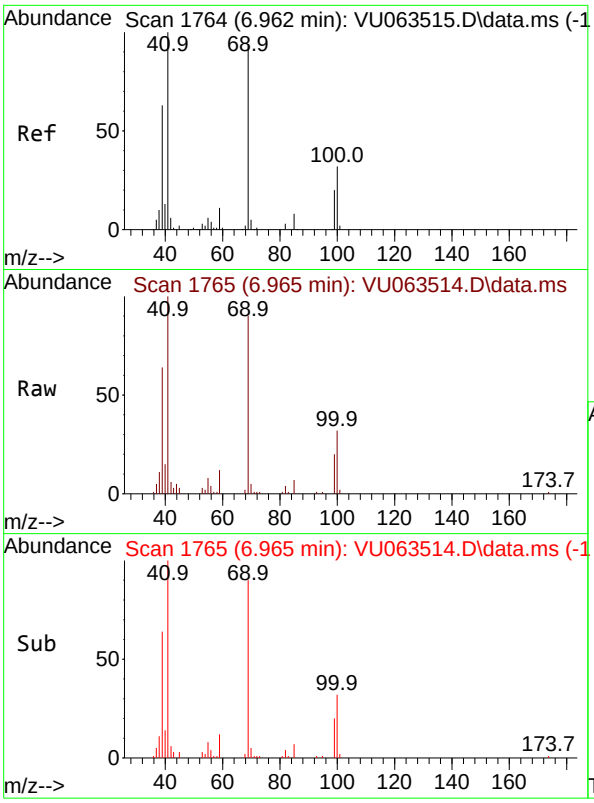


#46
t-1,4-Dichloro-2-butene
Concen: 9.823 ug/l m
RT: 10.823 min Scan# 2965
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 75 Resp: 13369

Ion	Ratio	Lower	Upper
75	100		
53	61.7	48.4	72.6
89	37.5	30.6	45.8
88	30.4	25.3	37.9

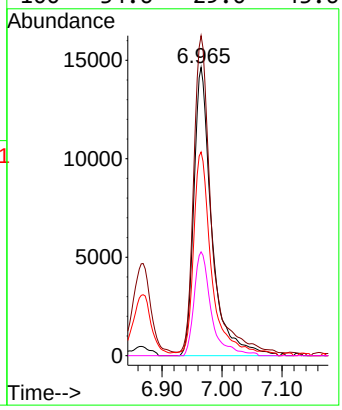




#47
Methyl methacrylate
Concen: 9.775 ug/l
RT: 6.965 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 69 Resp: 3055

Ion	Ratio	Lower	Upper
69	100		
41	108.9	0.0	224.0
39	66.7	55.3	82.9
100	34.6	29.0	43.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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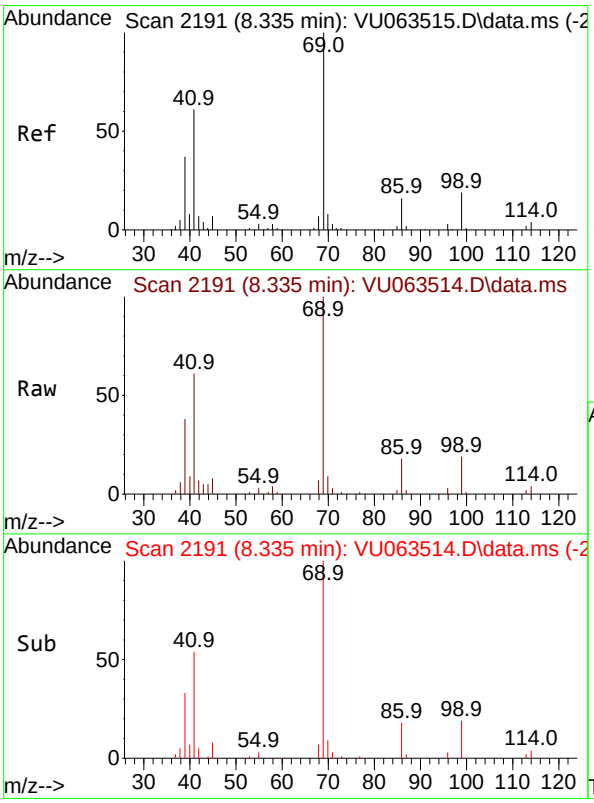
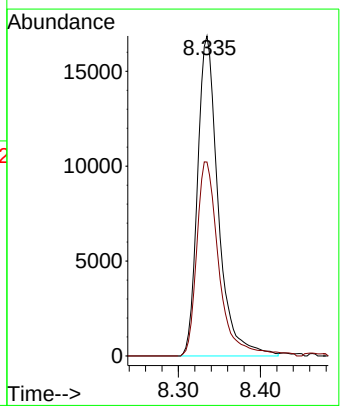
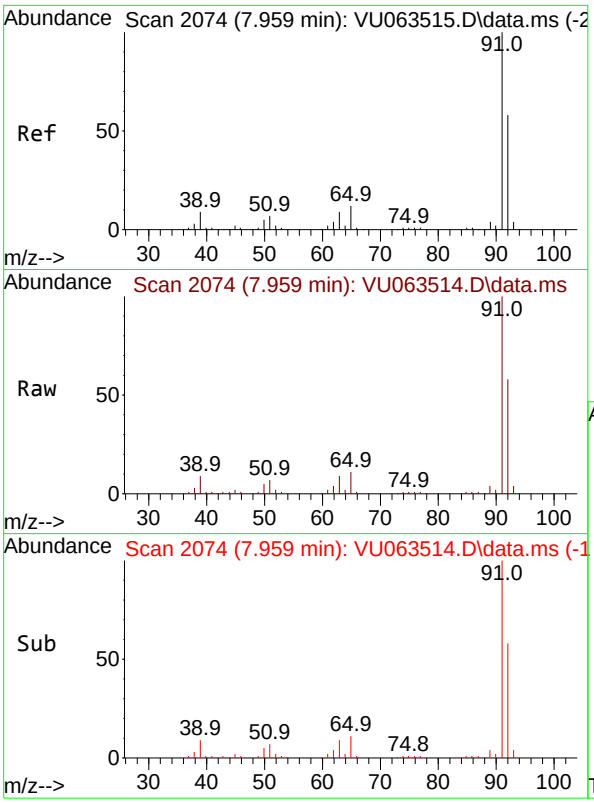


#48
Ethyl methacrylate
Concen: 4.943 ug/l
RT: 8.335 min Scan# 2191
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 69 Resp: 29487

Ion	Ratio	Lower	Upper
69	100		
41	65.3	30.8	92.4





#49
Toluene
Concen: 4.993 ug/l
RT: 7.959 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 92 Resp: 8368

Ion	Ratio	Lower	Upper
92	100		
91	175.3	140.4	210.6

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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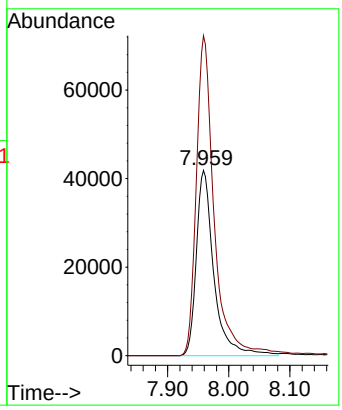
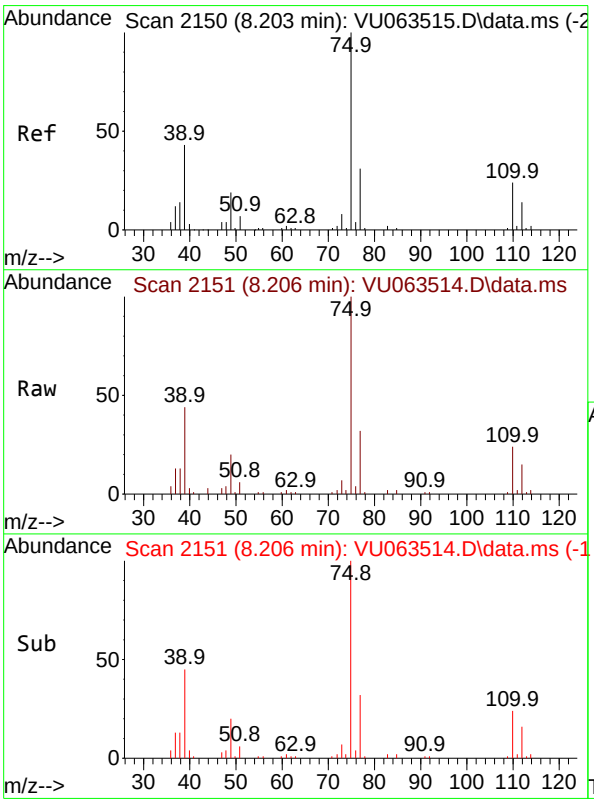
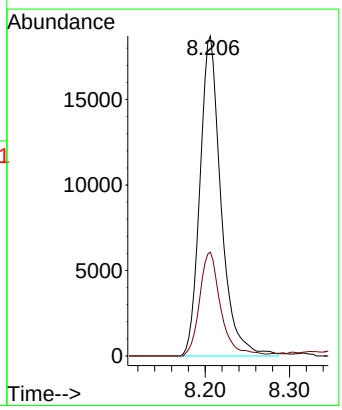


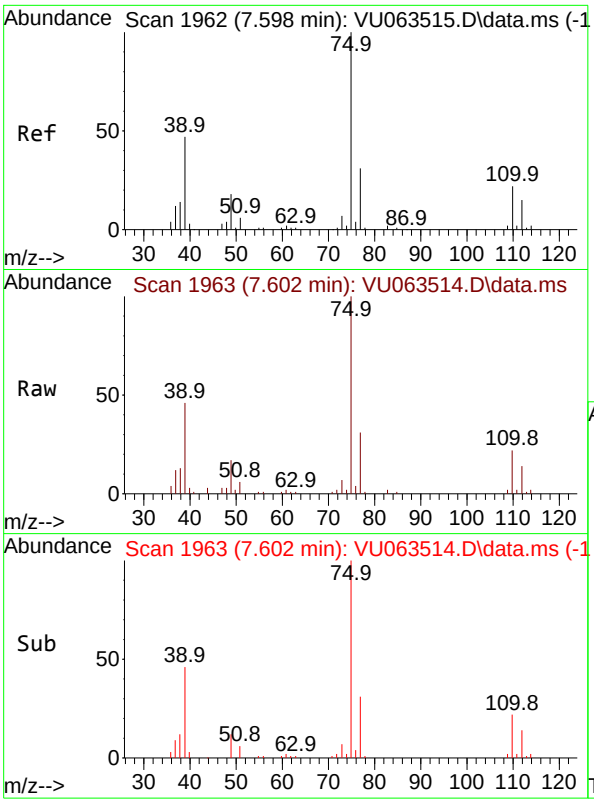


#50
t-1,3-Dichloropropene
Concen: 4.946 ug/l
RT: 8.206 min Scan# 2151
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 75 Resp: 32573

Ion	Ratio	Lower	Upper
75	100		
77	32.5	24.9	37.3

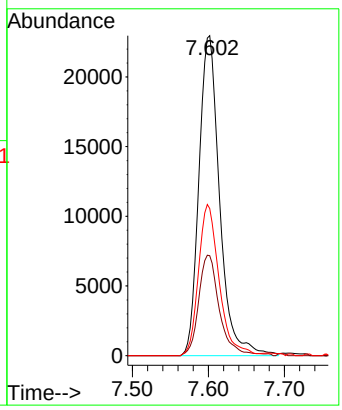




#51
cis-1,3-Dichloropropene
Concen: 4.923 ug/l
RT: 7.602 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 75 Resp: 4351

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.1	37.7
39	46.0	37.8	56.6



Instrument :
MSVOA_U
ClientSampleId :
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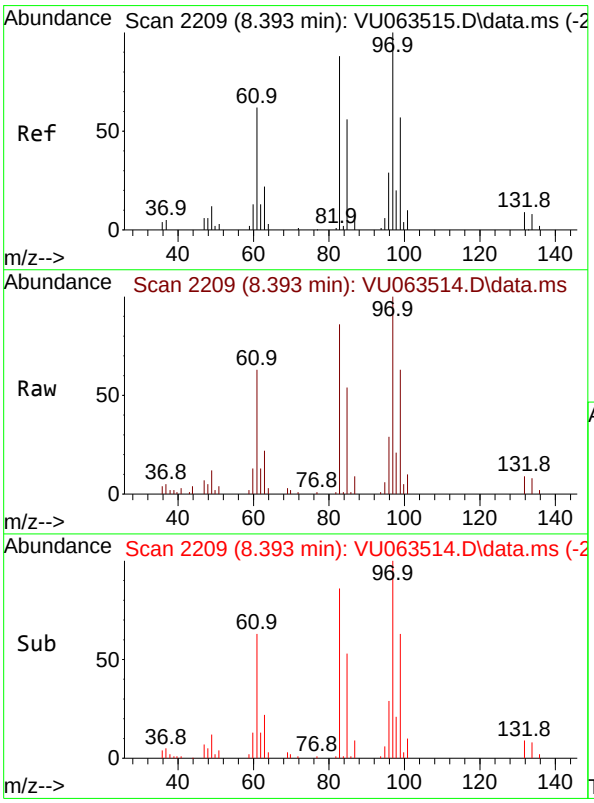
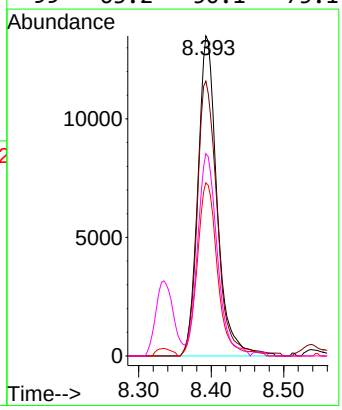
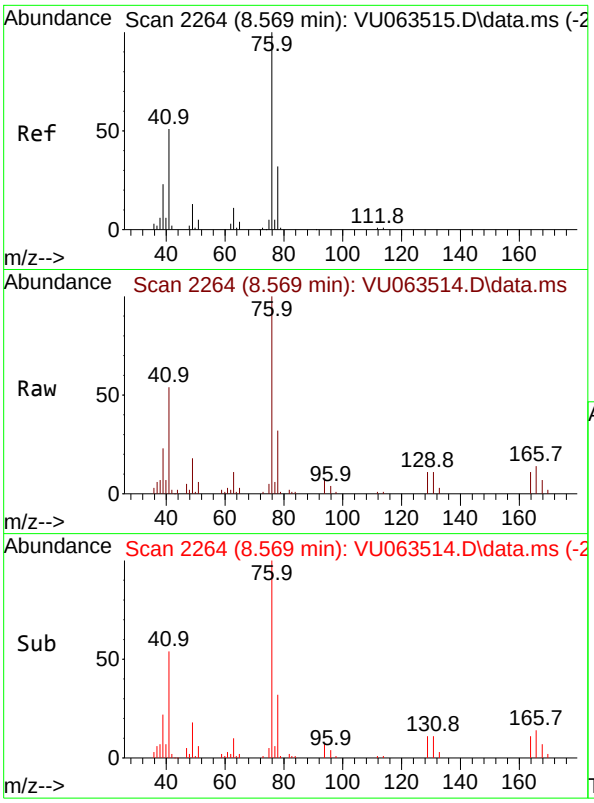


#52
1,1,2-Trichloroethane
Concen: 4.976 ug/l
RT: 8.393 min Scan# 2209
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 97 Resp: 24935

Ion	Ratio	Lower	Upper
97	100		
83	85.9	70.2	105.2
85	54.1	45.2	67.8
99	63.2	50.1	75.1

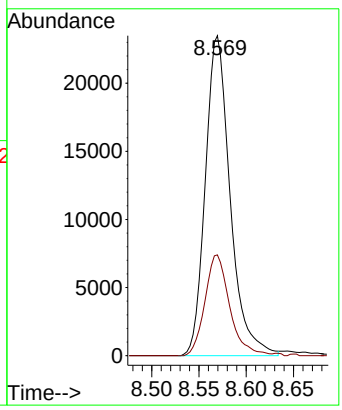




#53
1,3-Dichloropropane
Concen: 4.964 ug/l
RT: 8.569 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 76 Resp: 4293

Ion	Ratio	Lower	Upper
76	100		
78	31.4	26.0	39.0



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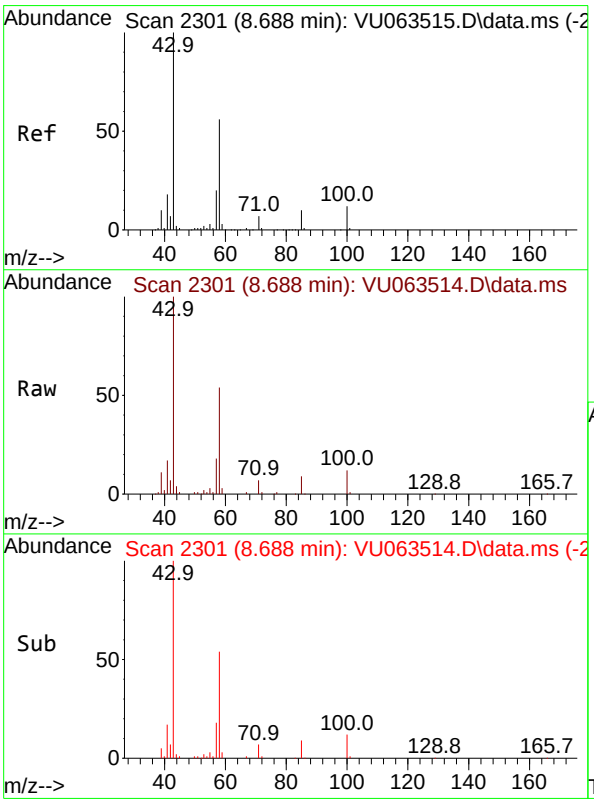
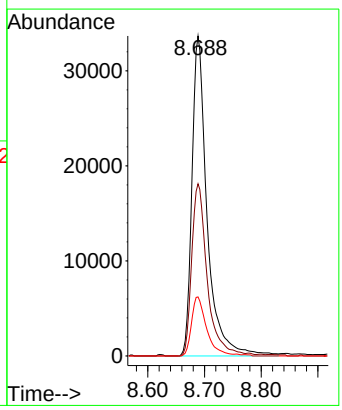
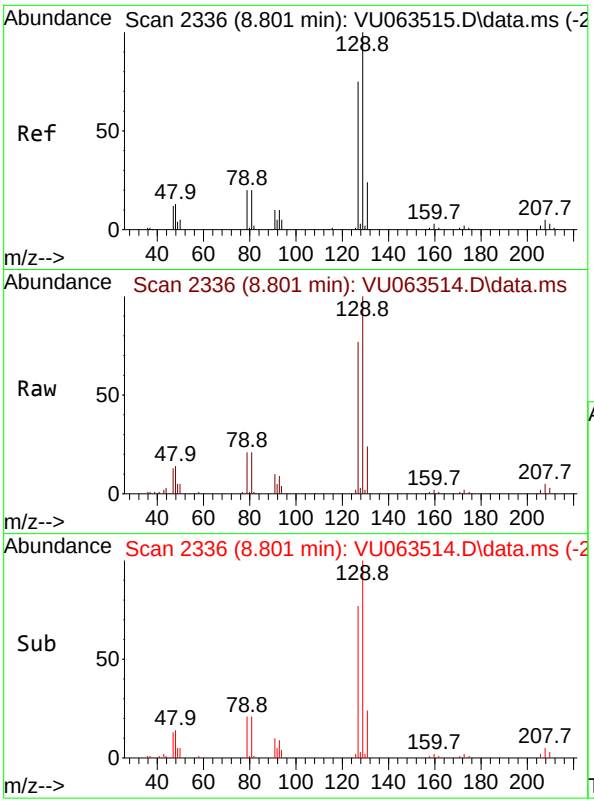


#54
2-Hexanone
Concen: 24.583 ug/l
RT: 8.688 min Scan# 2301
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 43 Resp: 62636

Ion	Ratio	Lower	Upper
43	100		
58	54.7	34.8	74.8
57	18.2	0.0	39.5

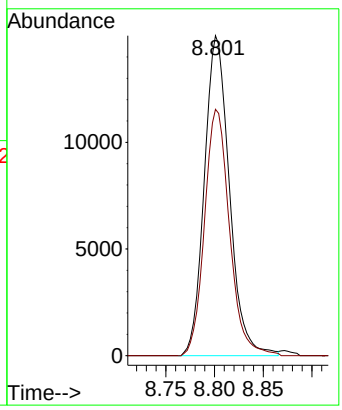




#55
Dibromochloromethane
Concen: 5.067 ug/l
RT: 8.801 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:129 Resp: 2683

Ion	Ratio	Lower	Upper
129	100		
127	76.8	60.1	90.1



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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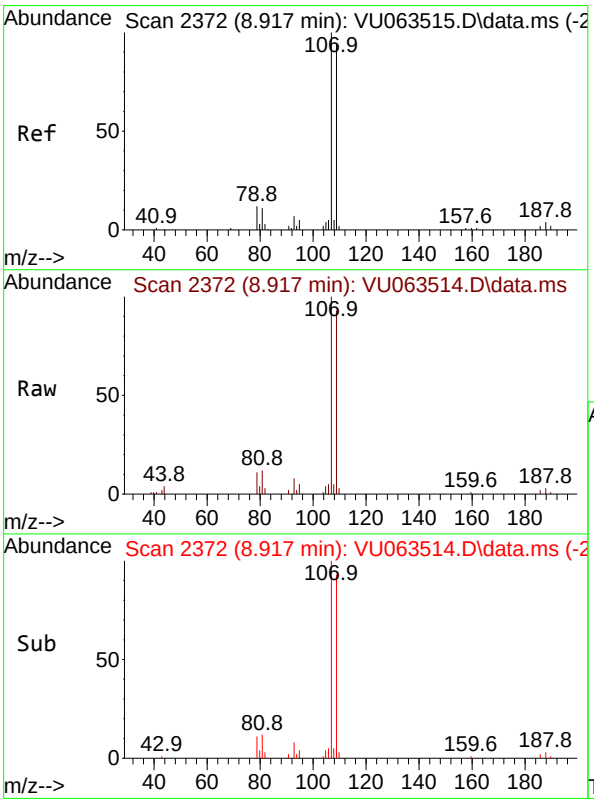
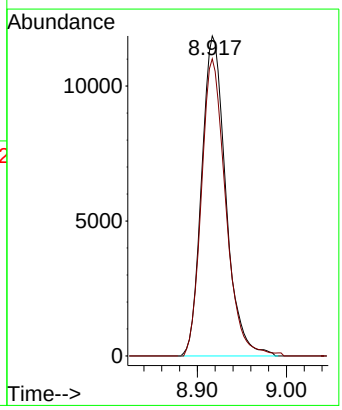
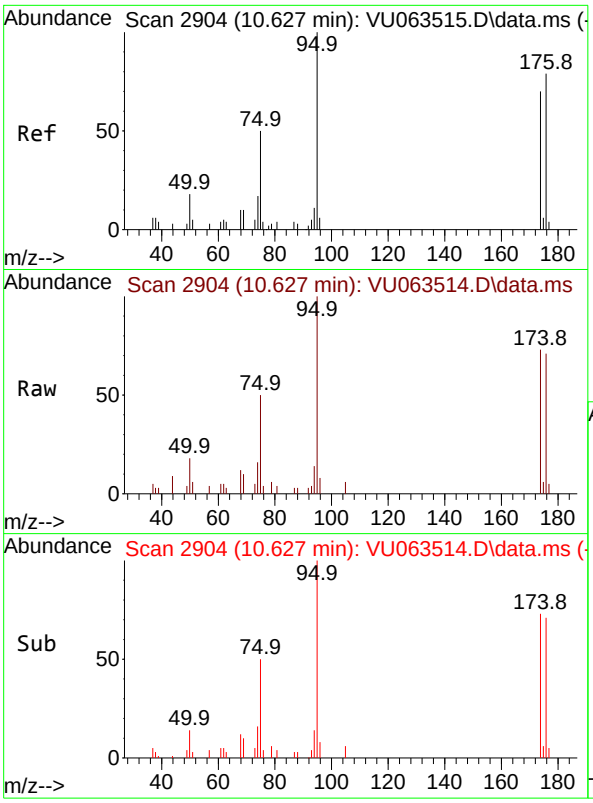


#56
1,2-Dibromoethane
Concen: 4.971 ug/l
RT: 8.917 min Scan# 2372
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:107 Resp: 22293

Ion	Ratio	Lower	Upper
107	100		
109	93.3	0.0	186.4

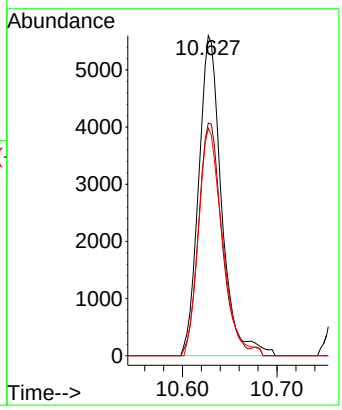




#57
4-Bromofluorobenzene
Concen: 0.953 ug/l
RT: 10.627 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 95 Resp: 940

Ion	Ratio	Lower	Upper
95	100		
174	74.4	59.8	89.8
176	74.1	61.8	92.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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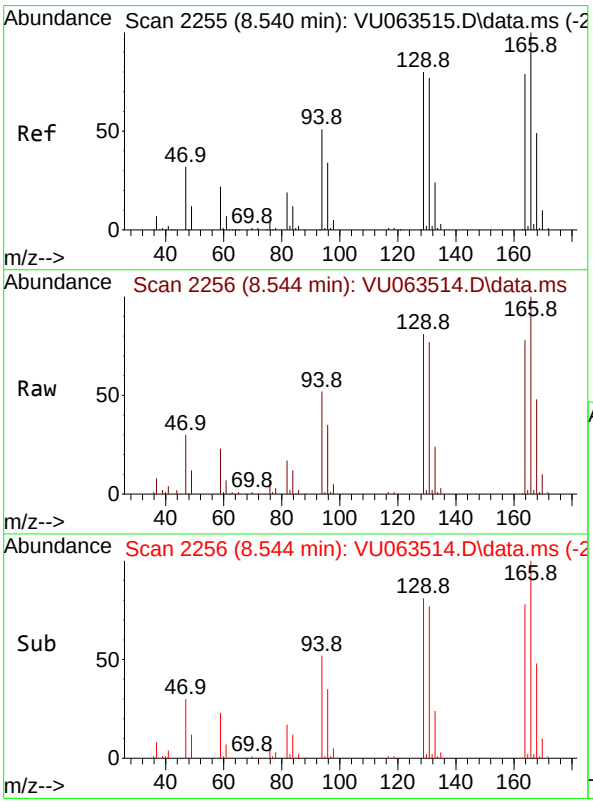
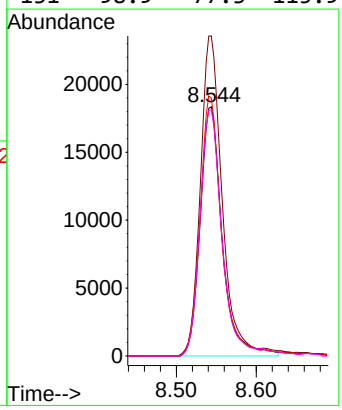
Supervised By :Semsettin Yesilyurt 07/17/2025

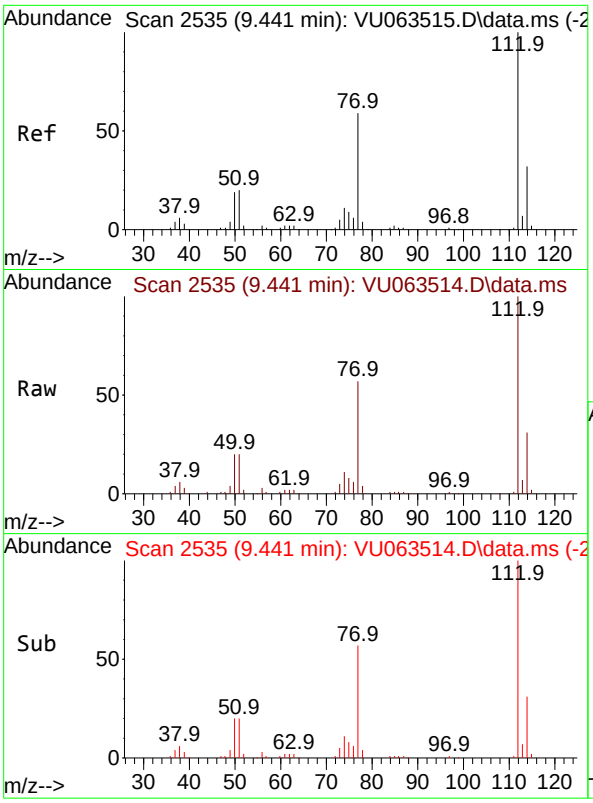


#58
Tetrachloroethene
Concen: 4.909 ug/l
RT: 8.544 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:164 Resp: 35190

Ion	Ratio	Lower	Upper
164	100		
166	128.5	100.7	151.1
129	103.5	80.6	120.8
131	98.9	77.3	115.9

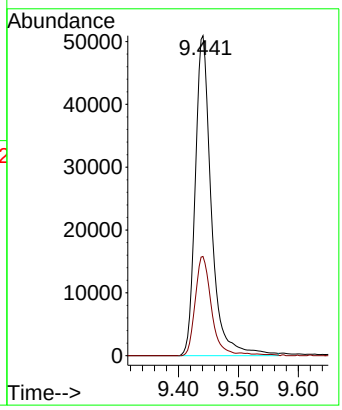




#59
Chlorobenzene
Concen: 4.955 ug/l
RT: 9.441 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:112 Resp: 9538

Ion	Ratio	Lower	Upper
112	100		
114	31.0	25.4	38.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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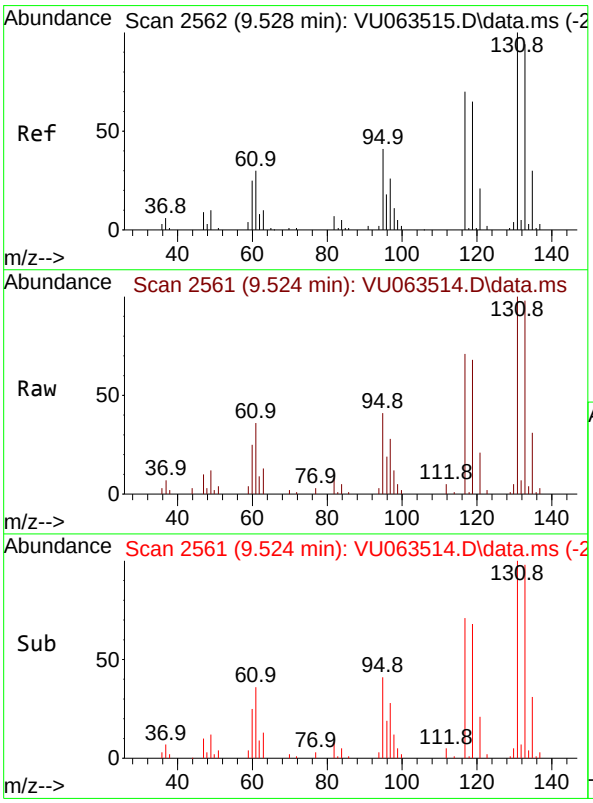
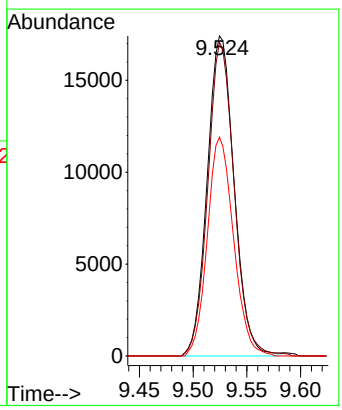
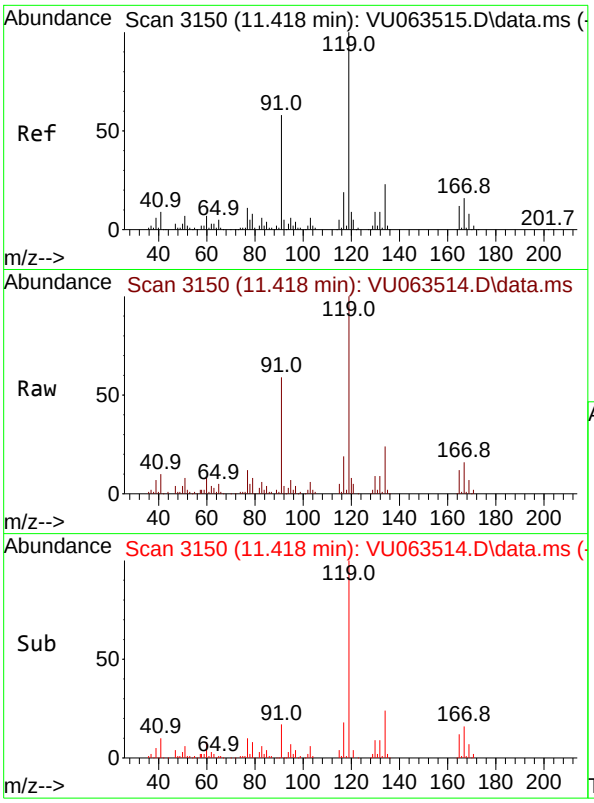


#60
1,1,1,2-Tetrachloroethane
Concen: 4.901 ug/l
RT: 9.524 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:131 Resp: 30337

Ion	Ratio	Lower	Upper
131	100		
133	96.2	74.7	112.1
119	66.6	53.0	79.4

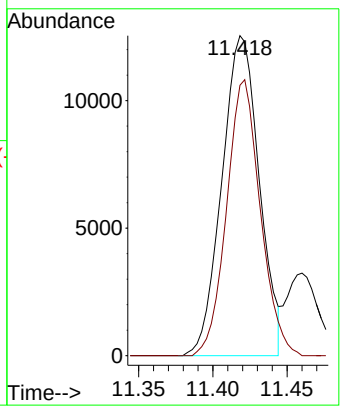




#61
Pentachloroethane
Concen: 5.020 ug/l
RT: 11.418 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:117 Resp: 2195

Ion	Ratio	Lower	Upper
117	100		
167	77.9	65.0	97.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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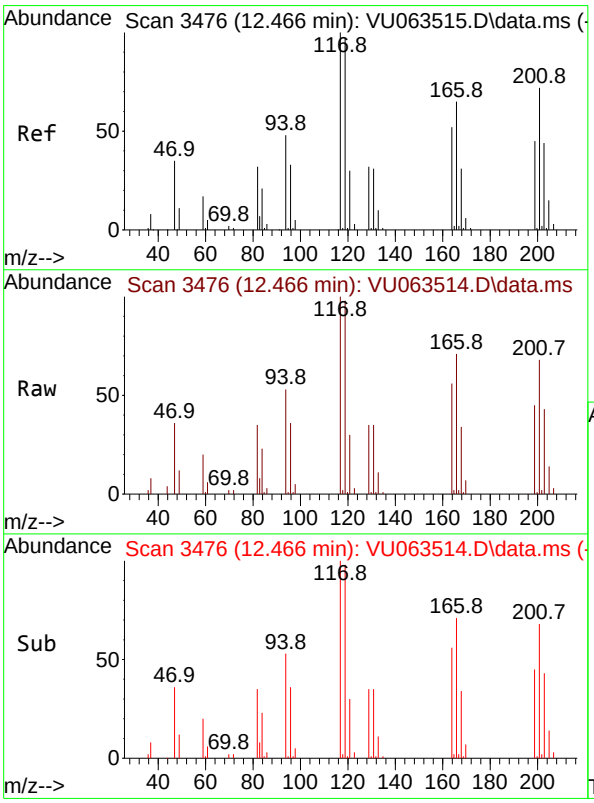
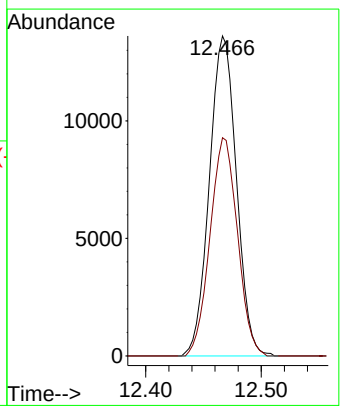
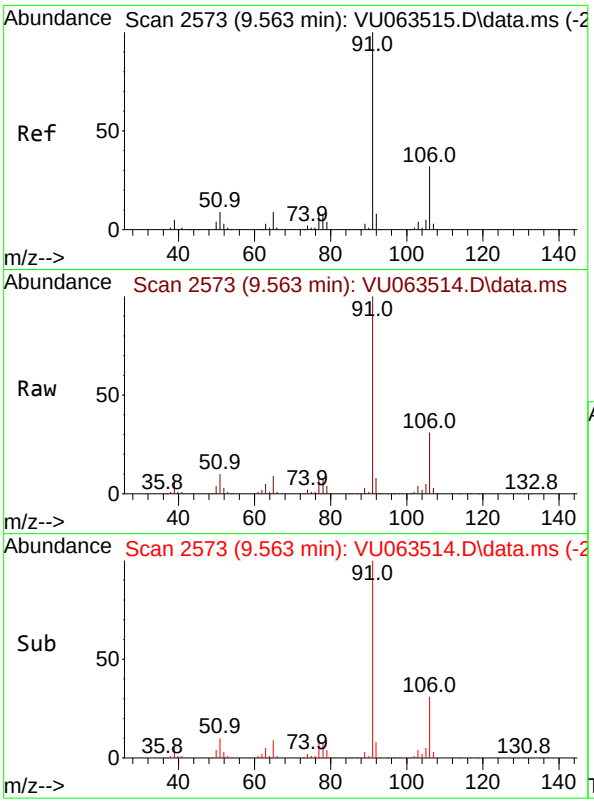


#62
Hexachloroethane
Concen: 5.110 ug/l
RT: 12.466 min Scan# 3476
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:117 Resp: 22137

Ion	Ratio	Lower	Upper
117	100		
201	69.3	57.4	86.0

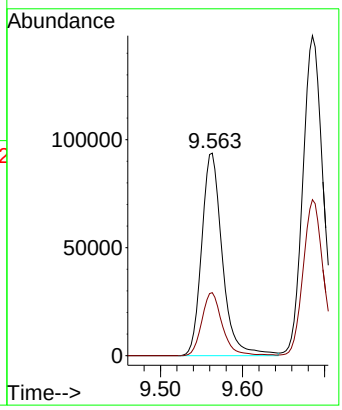




#63
Ethyl Benzene
Concen: 4.951 ug/l
RT: 9.563 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 91 Resp: 16399

Ion	Ratio	Lower	Upper
91	100		
106	31.1	25.4	38.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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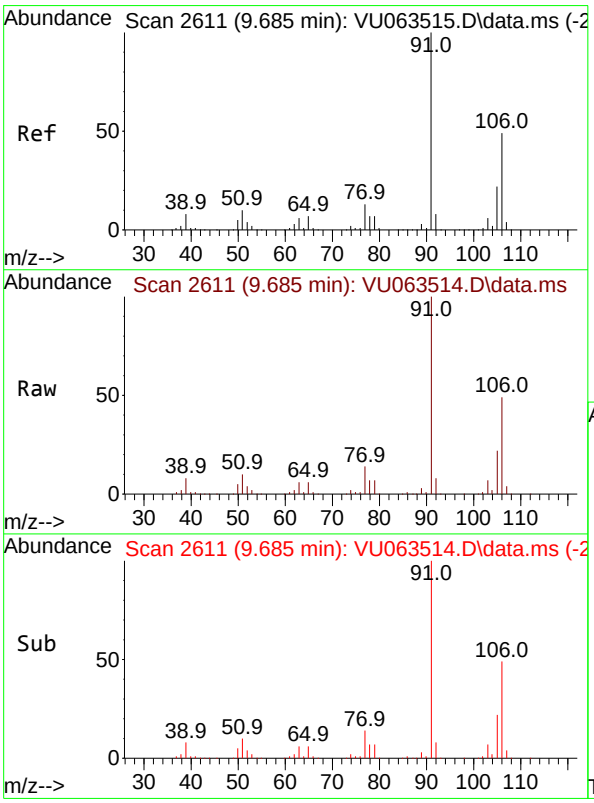
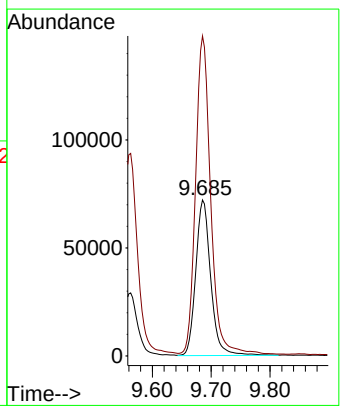
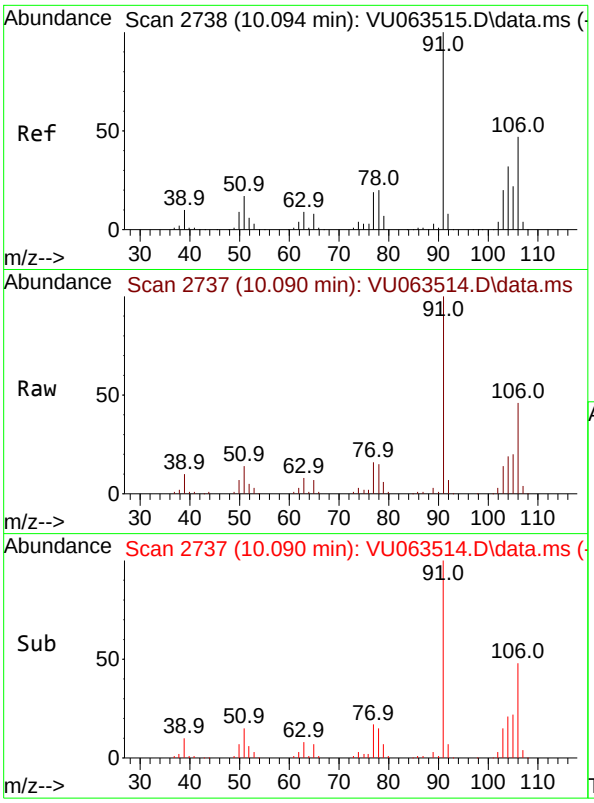


#64
m/p-Xylenes
Concen: 9.878 ug/l
RT: 9.685 min Scan# 2611
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:106 Resp: 127196

Ion	Ratio	Lower	Upper
106	100		
91	207.3	163.6	245.4

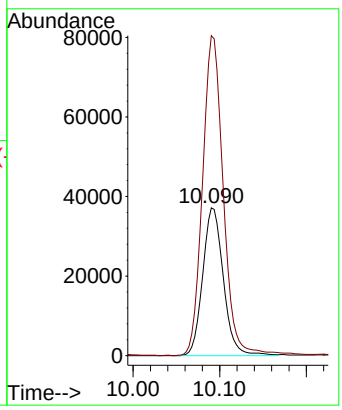




#65
o-Xylene
Concen: 4.982 ug/l
RT: 10.090 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:106 Resp: 6164

Ion	Ratio	Lower	Upper
106	100		
91	219.1	108.1	324.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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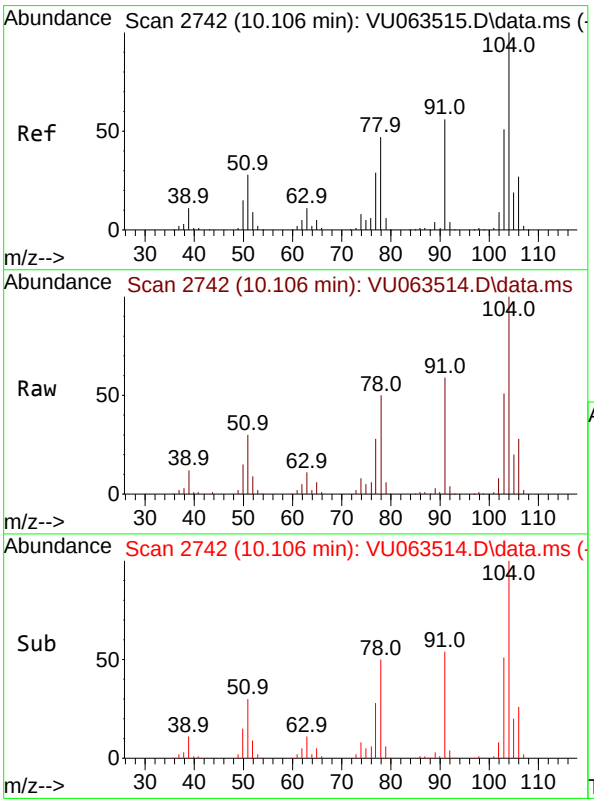
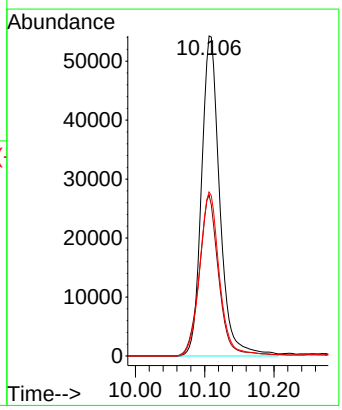
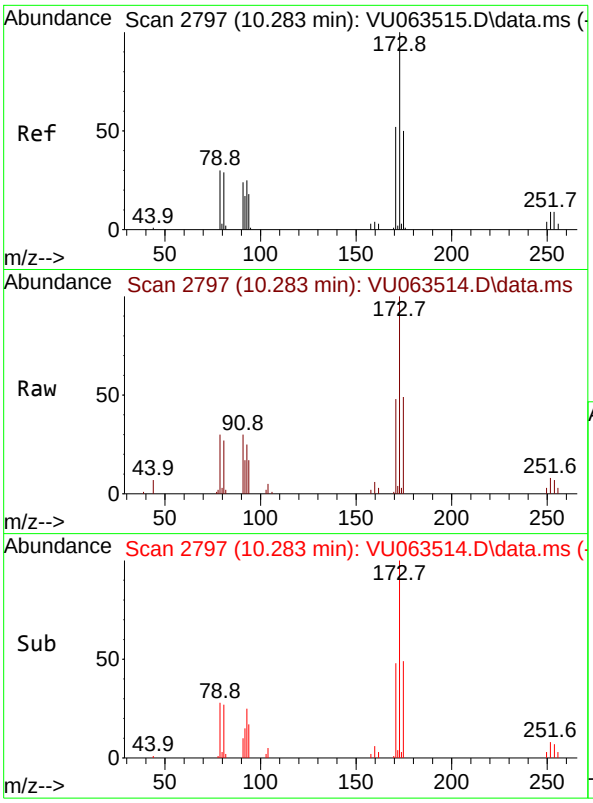


#66
Styrene
Concen: 5.046 ug/l
RT: 10.106 min Scan# 2742
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:104 Resp: 99507

Ion	Ratio	Lower	Upper
104	100		
78	53.2	41.3	61.9
103	55.4	43.6	65.4

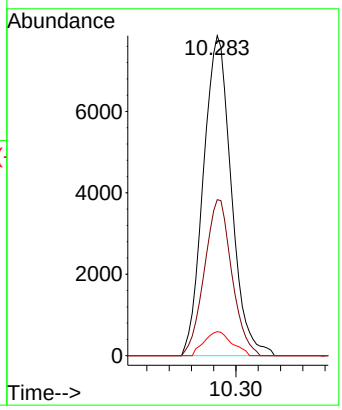




#67
Bromoform
Concen: 5.030 ug/l
RT: 10.283 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:173 Resp: 1368

Ion	Ratio	Lower	Upper
173	100		
175	47.9	39.0	58.4
254	7.4	6.5	9.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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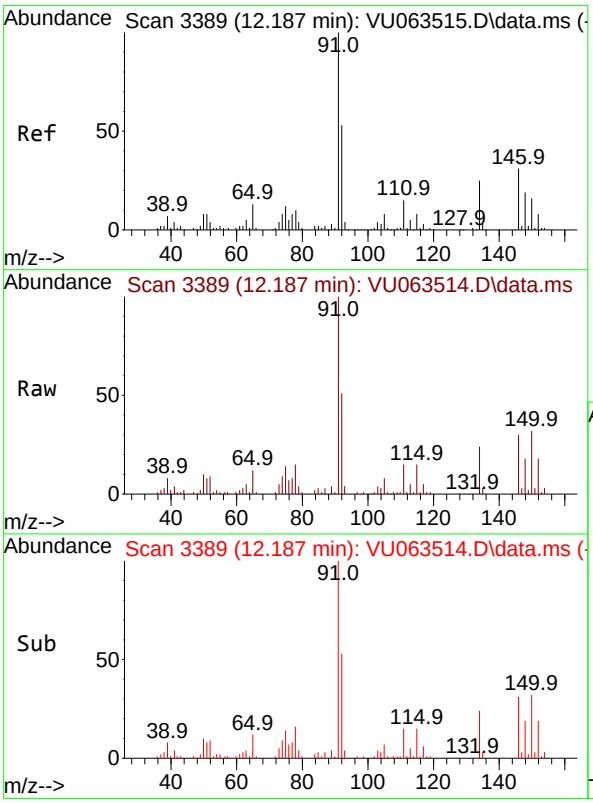
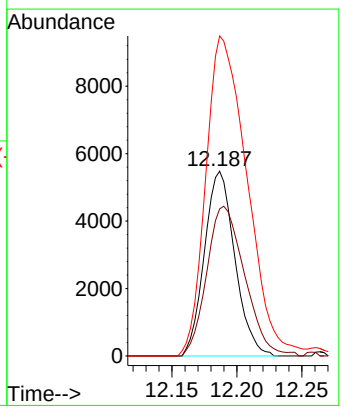
Supervised By :Semsettin Yesilyurt 07/17/2025

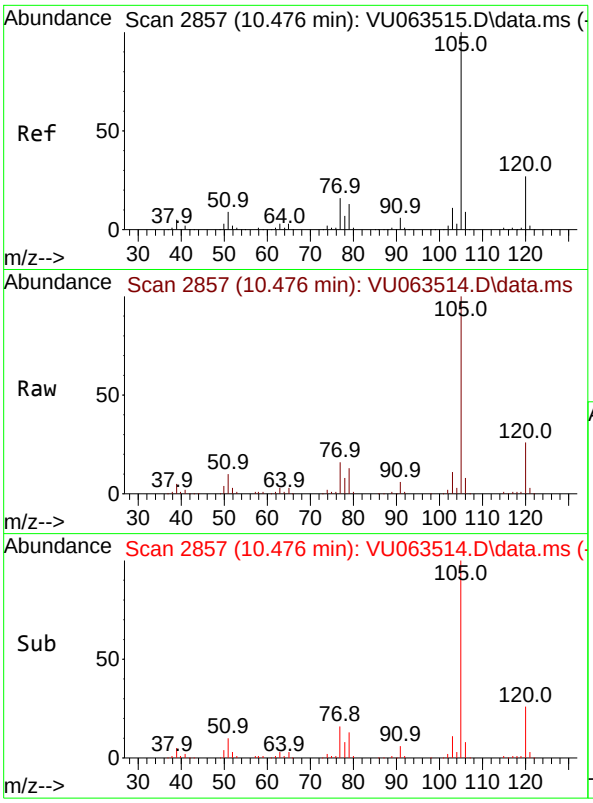


#68
1,2-Dichlorobenzene-d4
Concen: 0.978 ug/l
RT: 12.187 min Scan# 3389
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:152 Resp: 8923

Ion	Ratio	Lower	Upper
152	100		
115	100.6	0.0	262.2
150	234.6	0.0	651.2

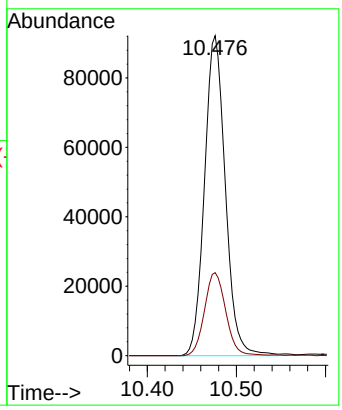




#69
Isopropylbenzene
Concen: 5.002 ug/l
RT: 10.476 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:105 Resp: 14962

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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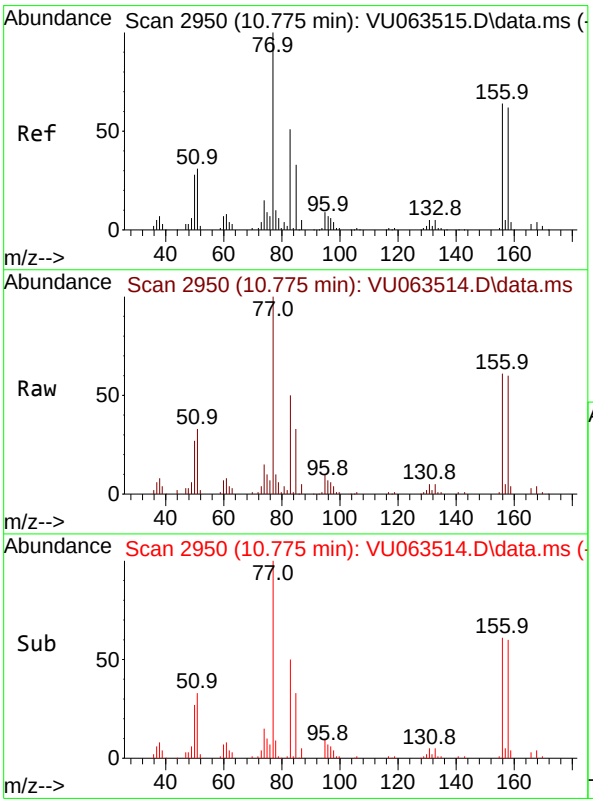
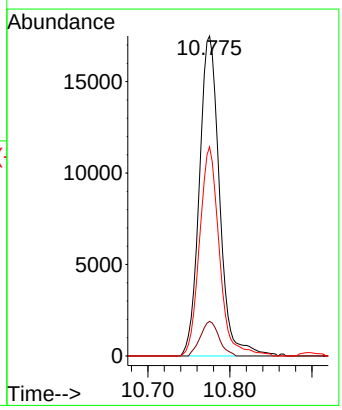
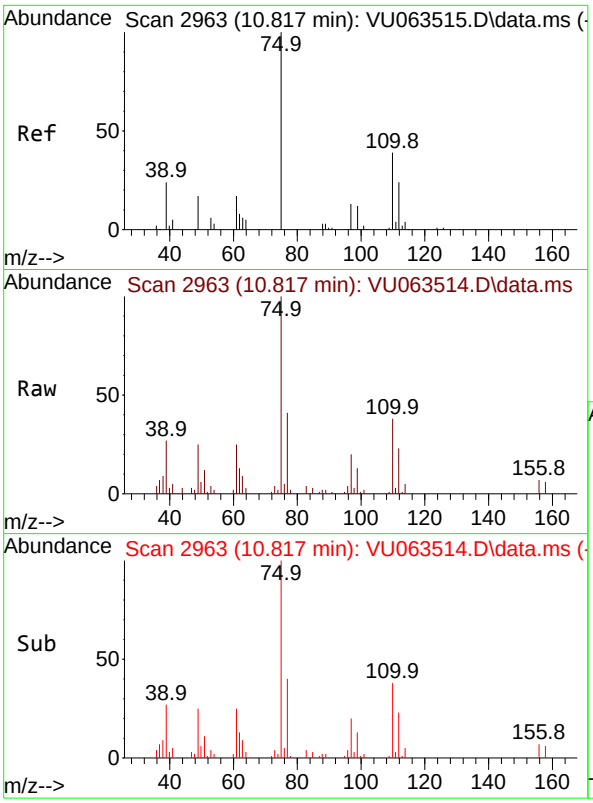


#70
1,1,2,2-Tetrachloroethane
Concen: 4.906 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 83 Resp: 29913

Ion	Ratio	Lower	Upper
83	100		
131	10.0	8.4	12.6
85	64.1	51.9	77.9

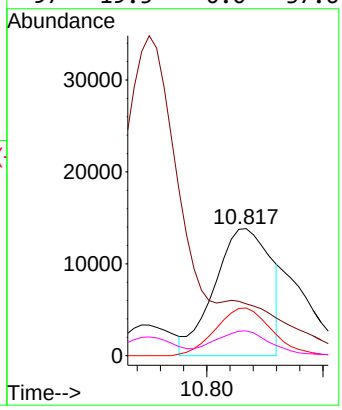




#71
1,2,3-Trichloropropane
Concen: 4.645 ug/l m
RT: 10.817 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 75 Resp: 2311

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	37.7	0.0	73.2
97	19.5	0.0	37.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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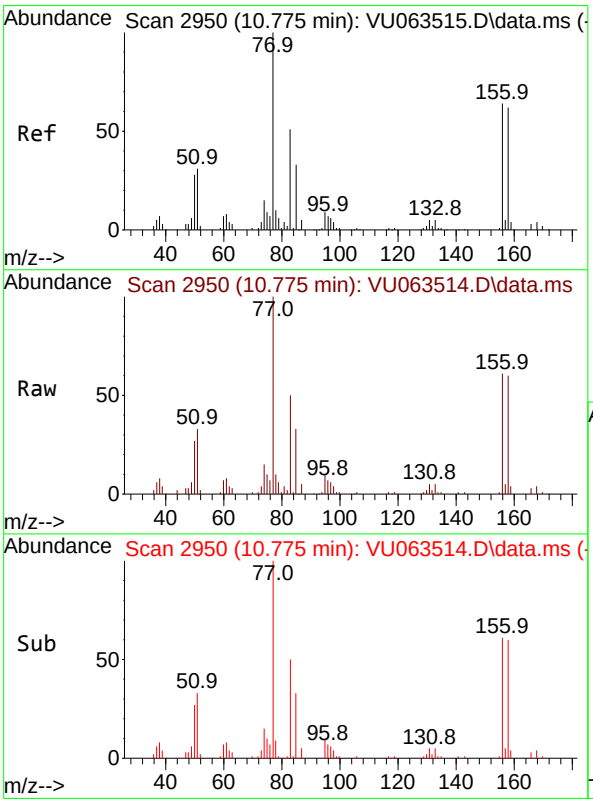
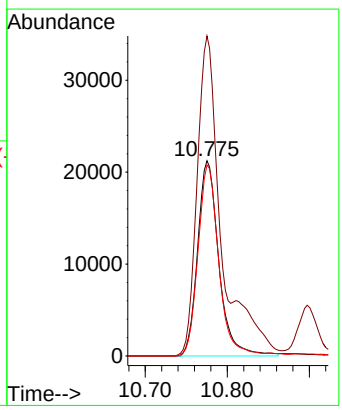
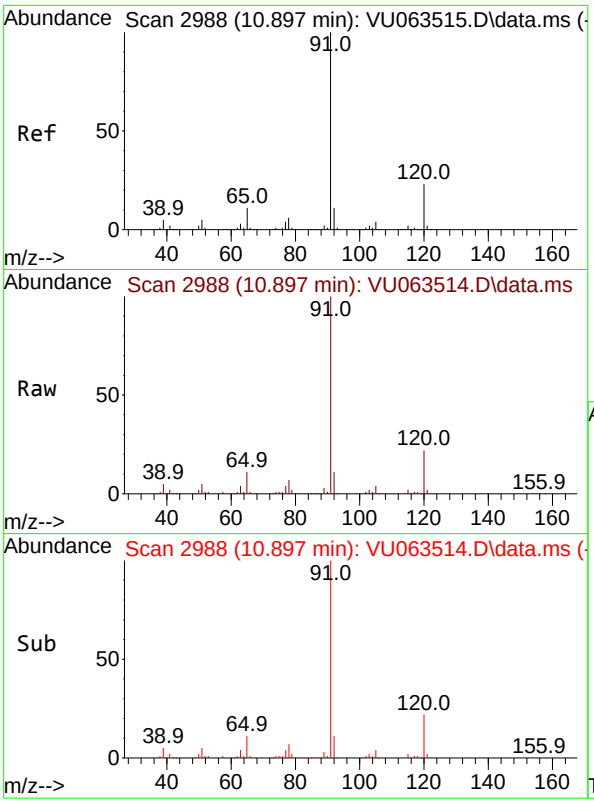


#72
Bromobenzene
Concen: 4.941 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:156 Resp: 38144

Ion	Ratio	Lower	Upper
156	100		
77	156.6	0.0	315.2
158	95.5	0.0	195.4

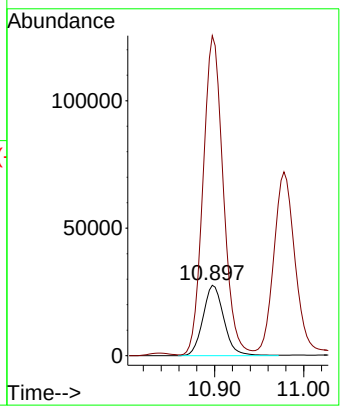




#73
n-propylbenzene
Concen: 4.978 ug/l
RT: 10.897 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:120 Resp: 4482

Ion	Ratio	Lower	Upper
120	100		
91	438.5	343.1	514.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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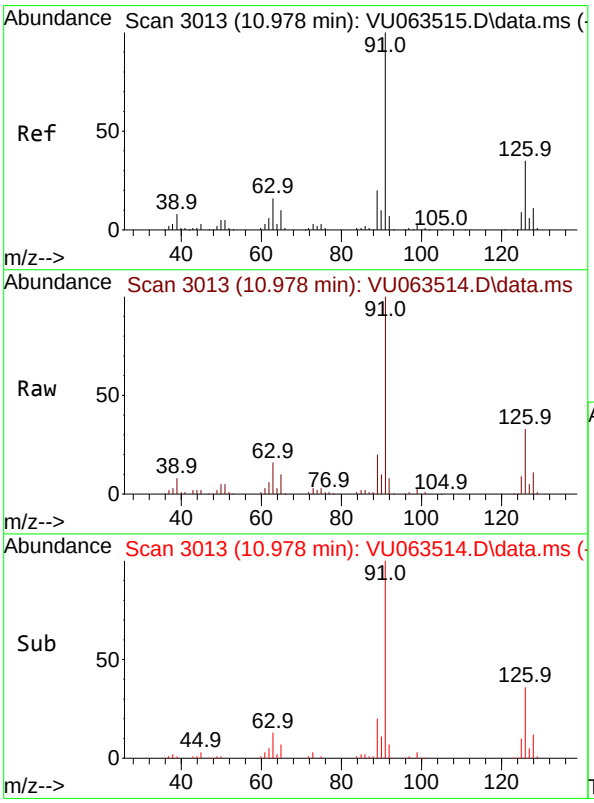
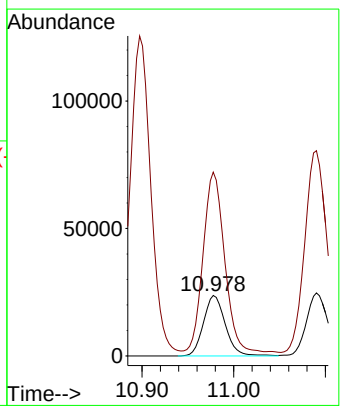
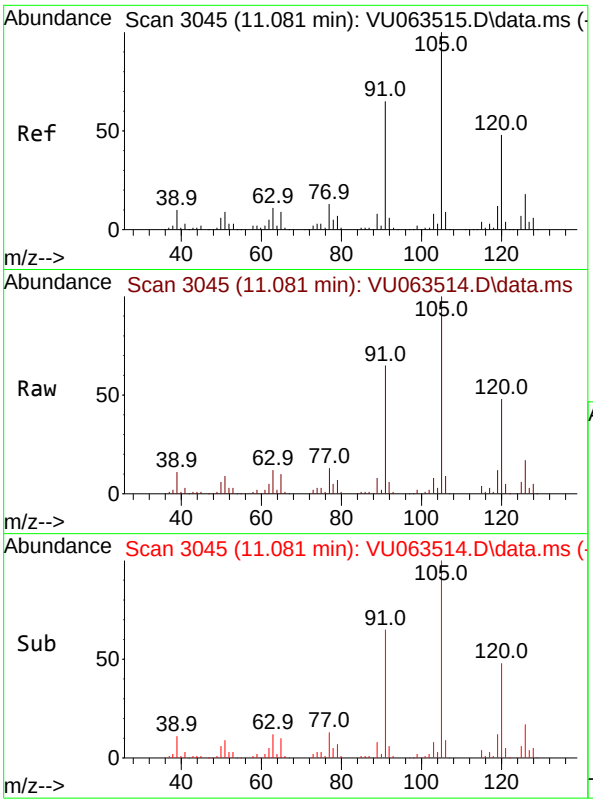


#74
2-Chlorotoluene
Concen: 4.932 ug/l
RT: 10.978 min Scan# 3013
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:126 Resp: 39249

Ion	Ratio	Lower	Upper
126	100		
91	292.1	0.0	606.0





#75
1,3,5-Trimethylbenzene
Concen: 5.025 ug/l
RT: 11.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

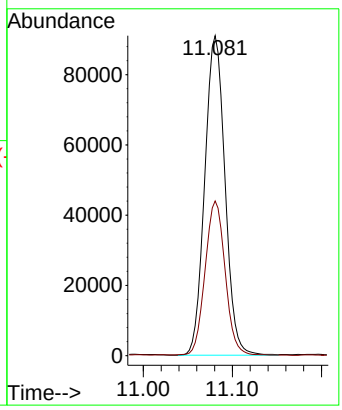
Tgt Ion:105 Resp: 14359

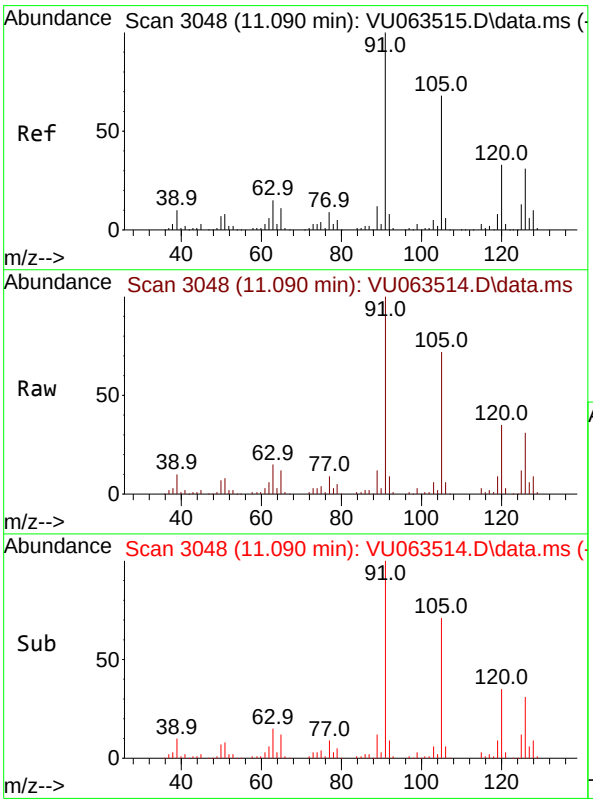
Ion	Ratio	Lower	Upper
105	100		
120	47.5	37.8	56.8

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

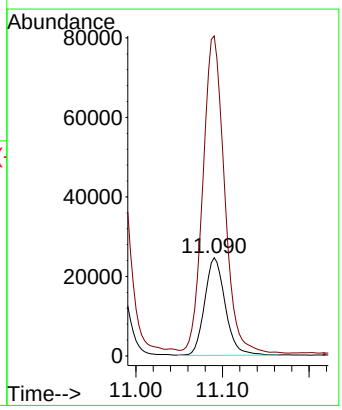


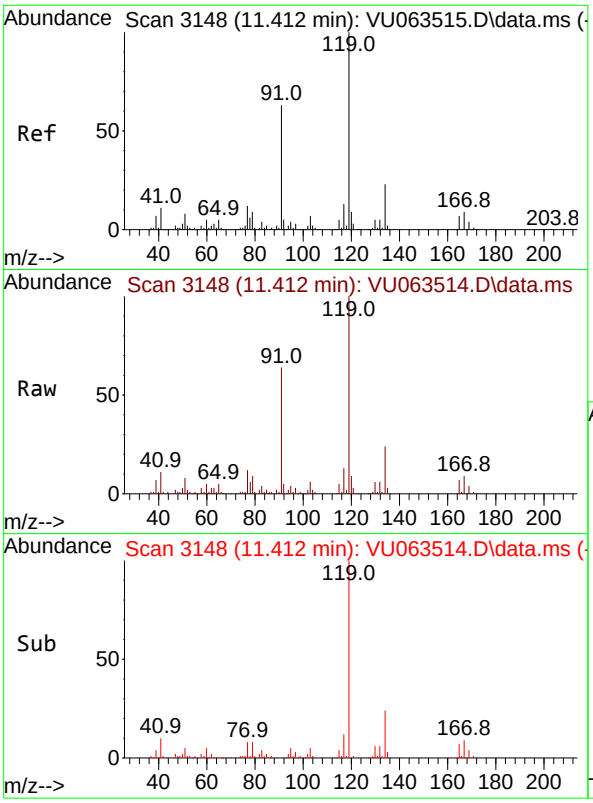


#76
4-Chlorotoluene
Concen: 5.014 ug/l
RT: 11.090 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:126 Resp: 40518

Ion	Ratio	Lower	Upper
126	100		
91	341.9	0.0	682.2

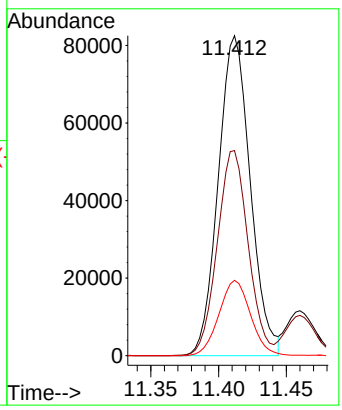




#77
tert-Butylbenzene
Concen: 4.970 ug/l
RT: 11.412 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:119 Resp: 13573

Ion	Ratio	Lower	Upper
119	100		
91	62.1	30.7	92.1
134	23.3	18.5	27.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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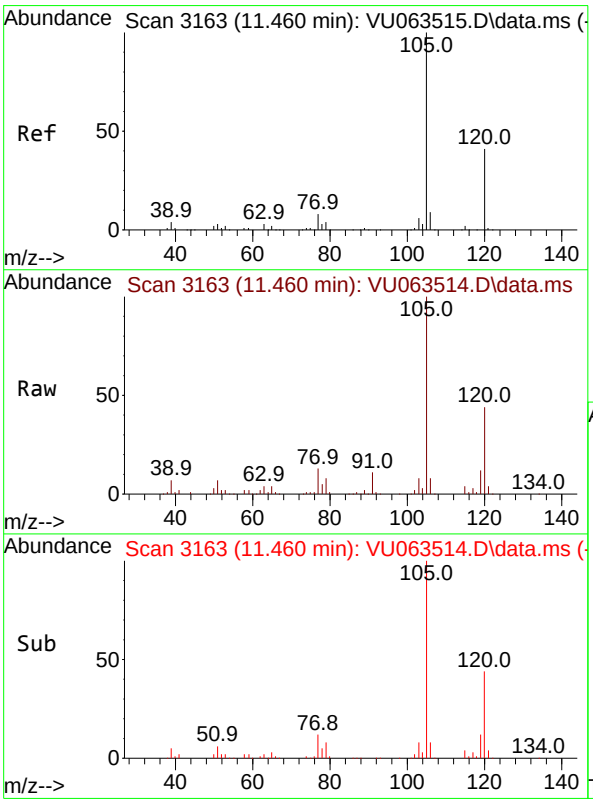
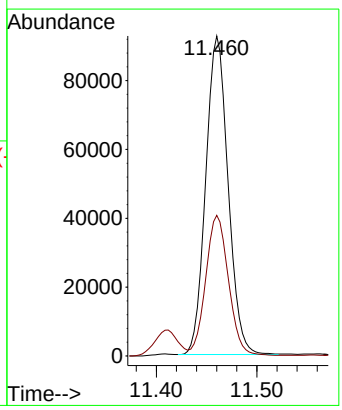
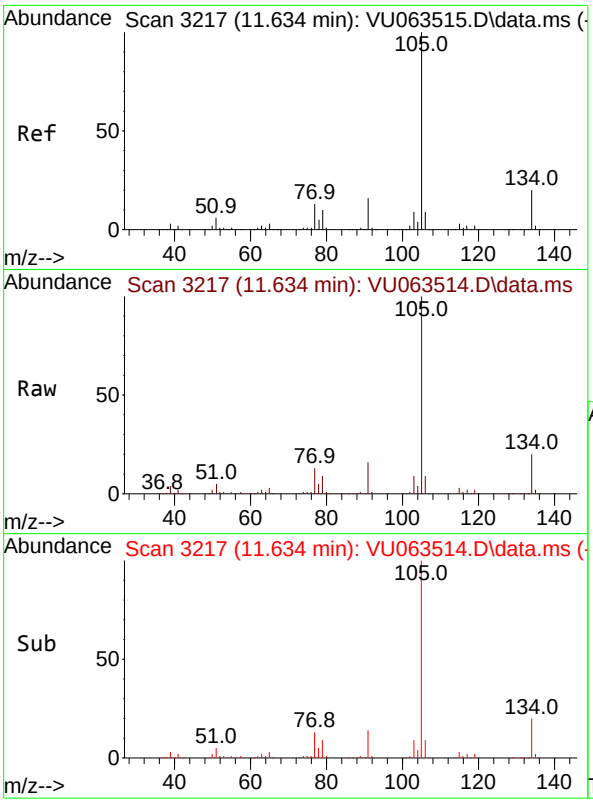


#78
1,2,4-Trimethylbenzene
Concen: 5.038 ug/l
RT: 11.460 min Scan# 3163
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:105 Resp: 142811

Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.7	68.0





#79
sec-Butylbenzene
Concen: 5.015 ug/l
RT: 11.634 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:105 Resp: 18468

Ion	Ratio	Lower	Upper
105	100		
134	20.1	16.2	24.4

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations
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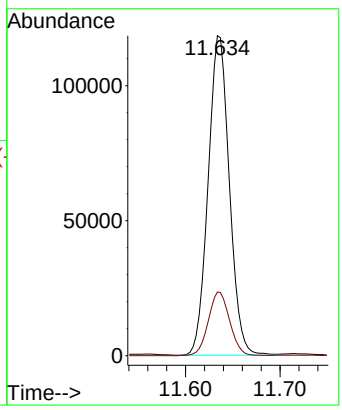
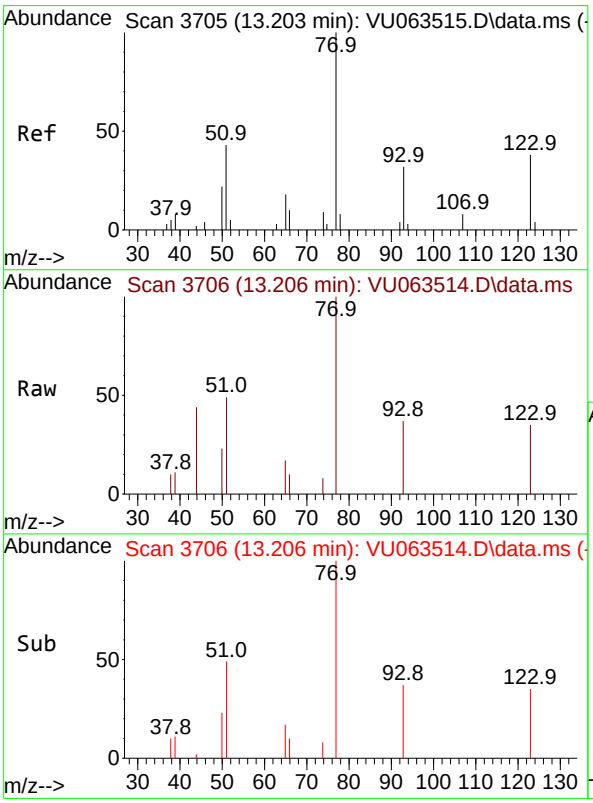
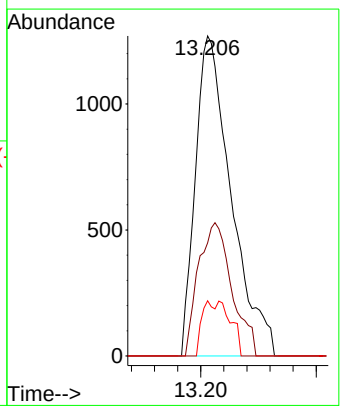


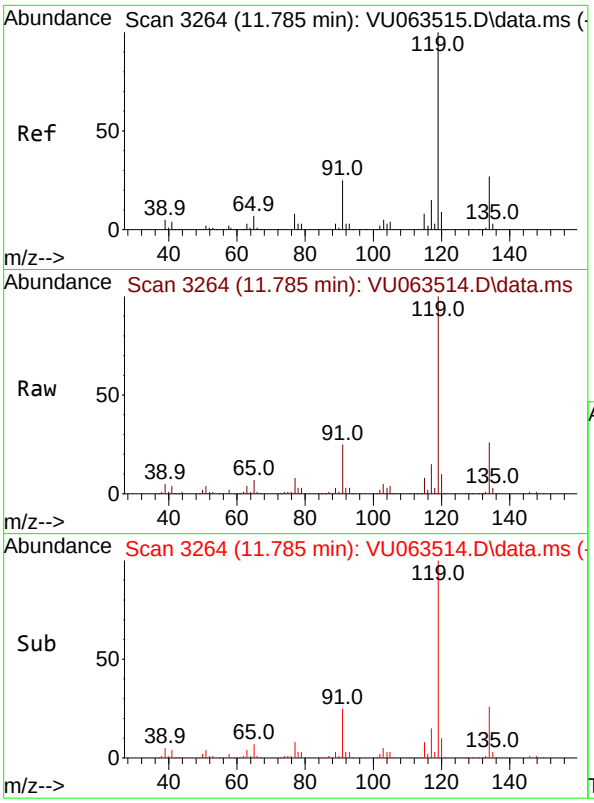


#80
Nitrobenzene
Concen: 23.955 ug/l
RT: 13.206 min Scan# 3706
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 77 Resp: 2721

Ion	Ratio	Lower	Upper
77	100		
123	39.0	16.9	59.7
65	6.5	16.5	20.9#

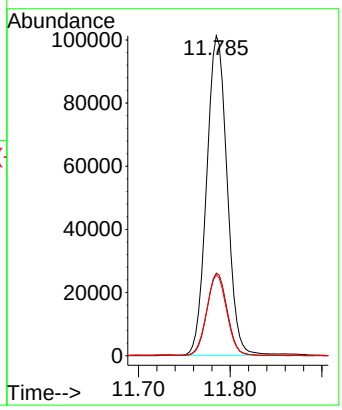




#81
p-Isopropyltoluene
Concen: 5.093 ug/l
RT: 11.785 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:119 Resp: 15656

Ion	Ratio	Lower	Upper
119	100		
134	25.3	21.1	31.7
91	24.6	19.8	29.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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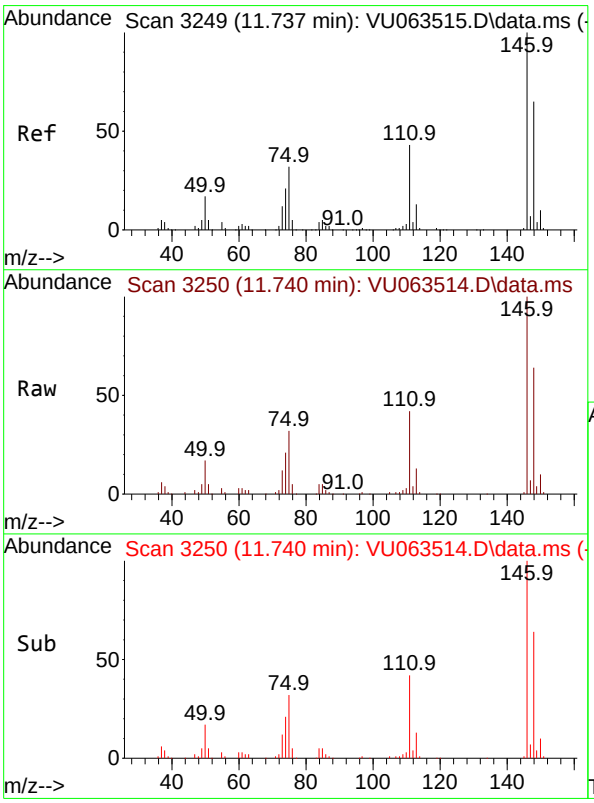
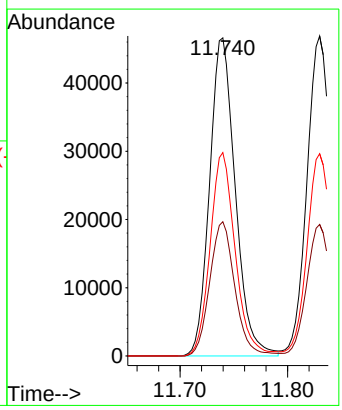
Supervised By :Semsettin Yesilyurt 07/17/2025

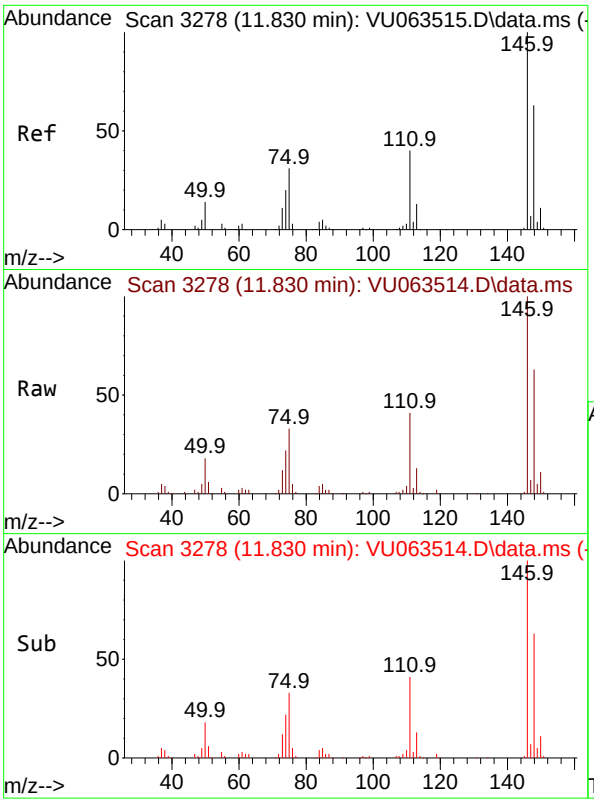


#82
1,3-Dichlorobenzene
Concen: 5.007 ug/l
RT: 11.740 min Scan# 3250
Delta R.T. 0.003 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:146 Resp: 77340

Ion	Ratio	Lower	Upper
146	100		
111	41.4	33.8	50.6
148	62.7	51.5	77.3

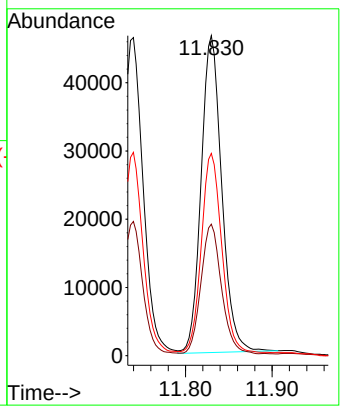




#83
1,4-Dichlorobenzene
Concen: 4.975 ug/l
RT: 11.830 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:146 Resp: 7691

Ion	Ratio	Lower	Upper
146	100		
111	40.9	32.0	48.0
148	63.1	50.2	75.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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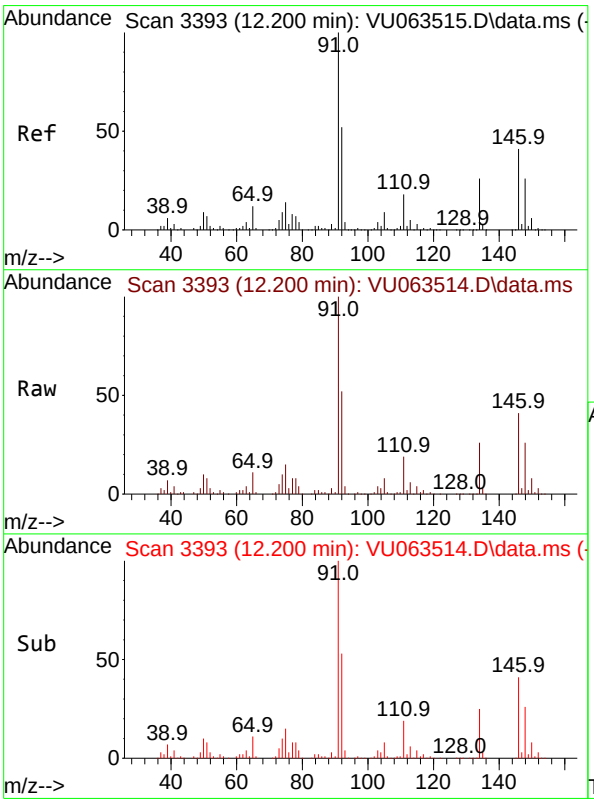
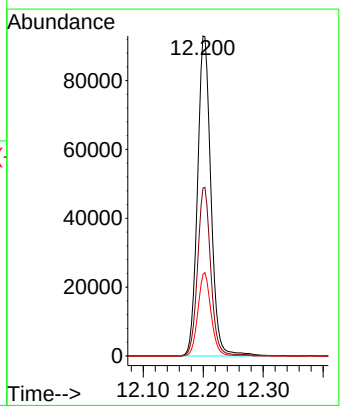
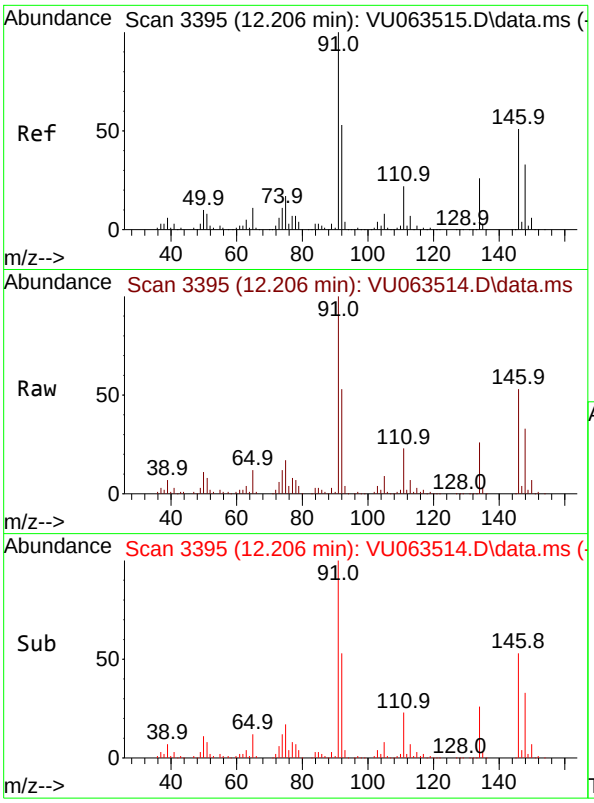


#84
n-Butylbenzene
Concen: 5.087 ug/l
RT: 12.200 min Scan# 3393
Delta R.T. -0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 91 Resp: 145033

Ion	Ratio	Lower	Upper
91	100		
92	52.0	41.5	62.3
134	25.4	20.6	30.8

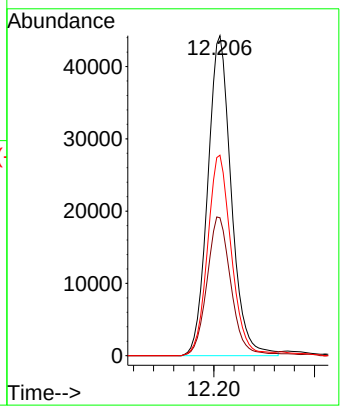




#85
1,2-Dichlorobenzene
Concen: 4.958 ug/l
RT: 12.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:146 Resp: 7194

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.7	65.1
148	63.3	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations
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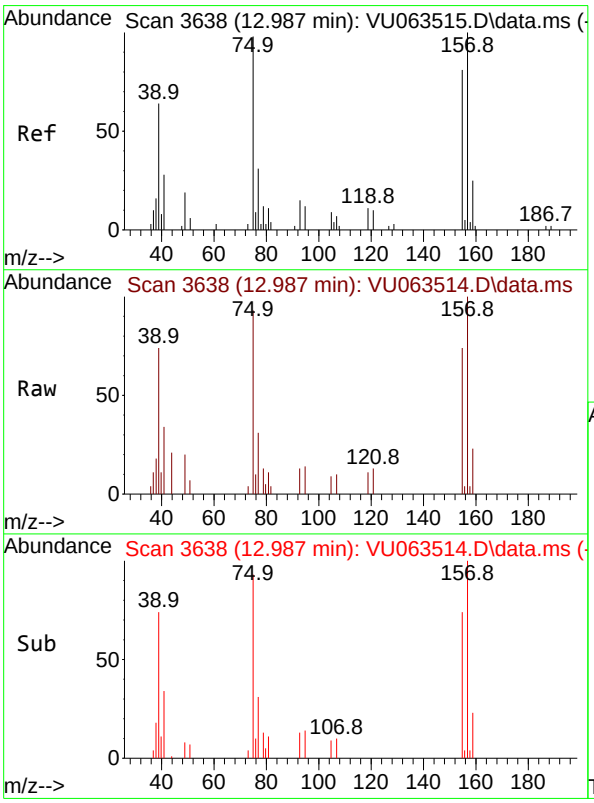
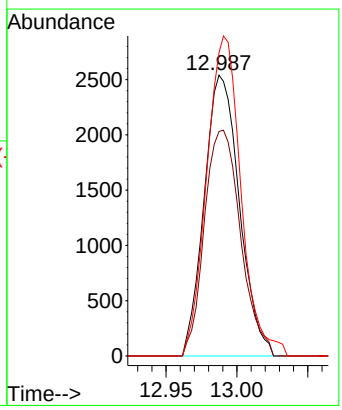
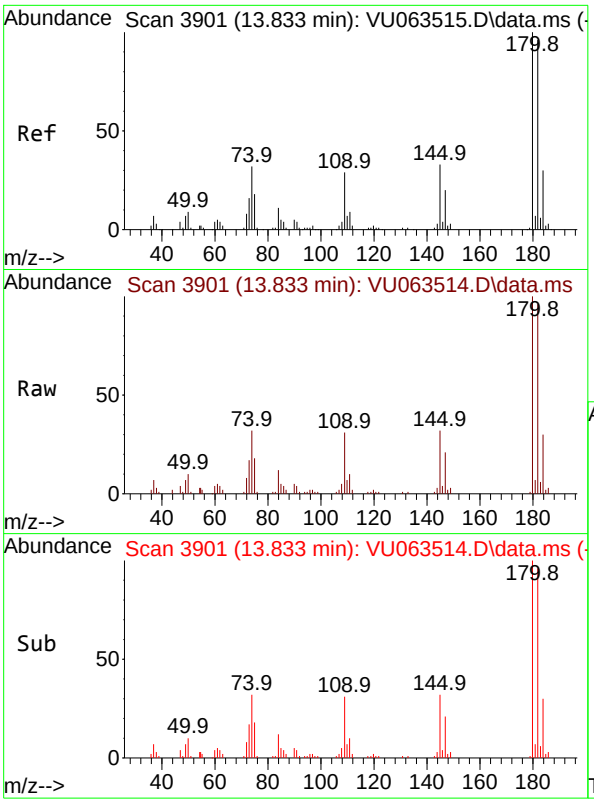


#86
1,2-Dibromo-3-Chloropropane
Concen: 4.863 ug/l
RT: 12.987 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion: 75 Resp: 4378

Ion	Ratio	Lower	Upper
75	100		
155	82.6	65.8	98.6
157	111.0	81.4	122.2

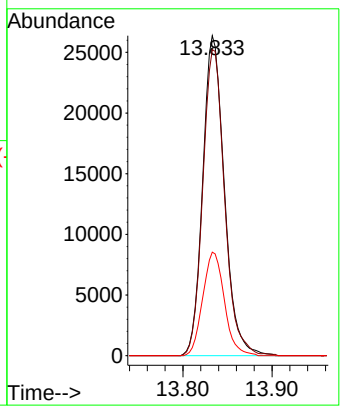




#87
1,2,4-Trichlorobenzene
Concen: 4.931 ug/l
RT: 13.833 min Scan# 3
Delta R.T. -0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:180 Resp: 4449

Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.2	114.4
145	32.3	26.2	39.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

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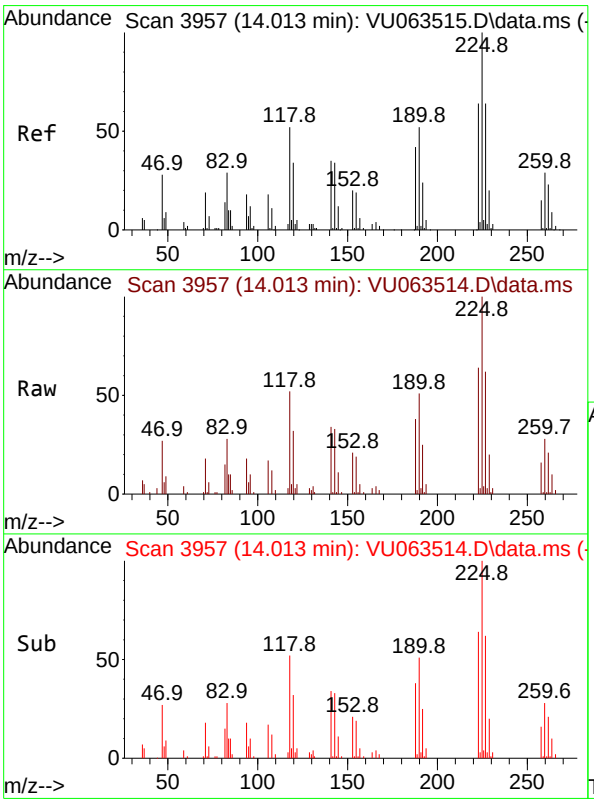
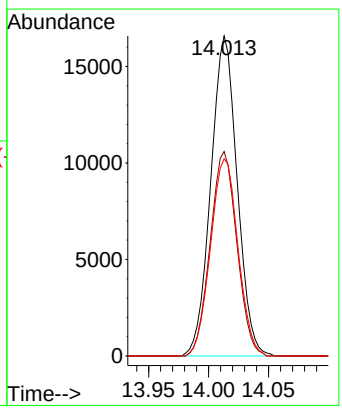
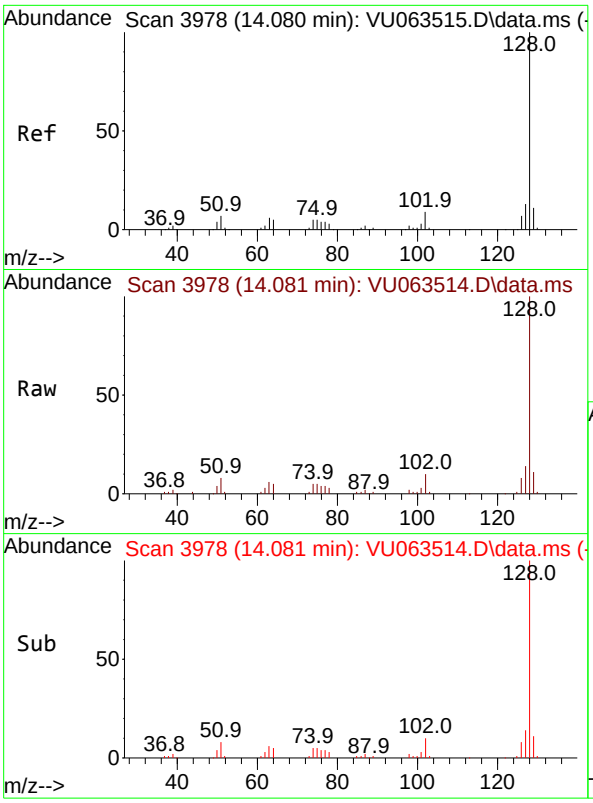


#88
Hexachlorobutadiene
Concen: 4.948 ug/l
RT: 14.013 min Scan# 3957
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:225 Resp: 25355

Ion	Ratio	Lower	Upper
225	100		
223	64.5	50.8	76.2
227	64.1	51.0	76.6





#89
Naphthalene
Concen: 4.728 ug/l
RT: 14.081 min Scan# 3
Delta R.T. 0.001 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:128 Resp: 7644

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	10.8	8.8	13.2

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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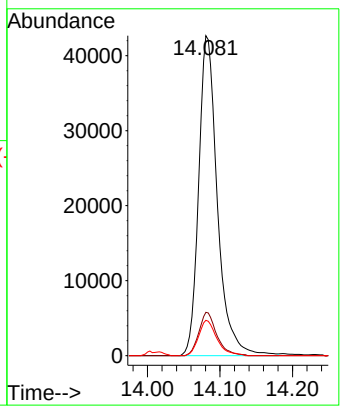
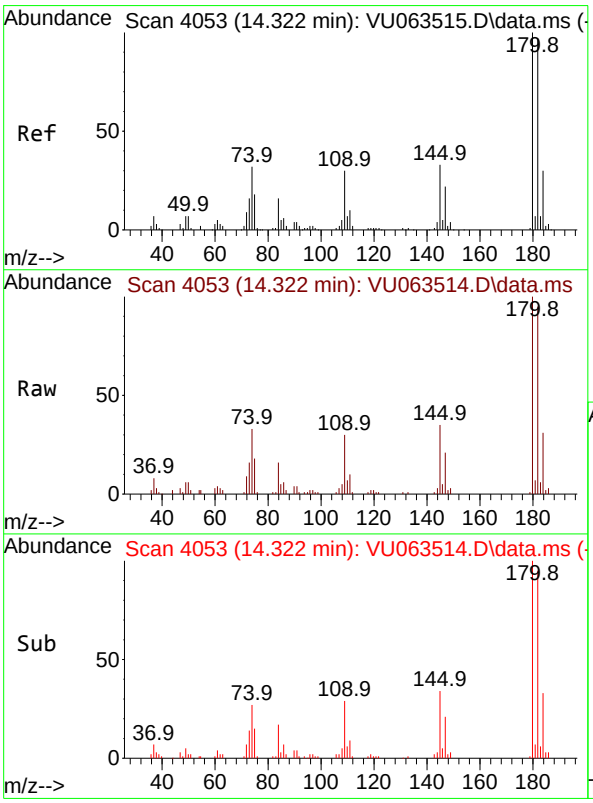
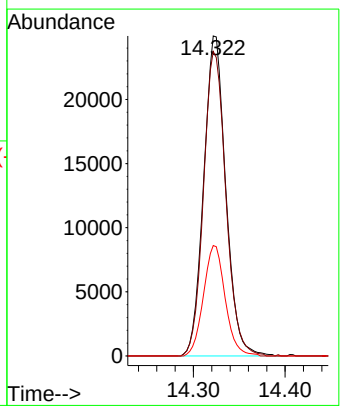




#90
1,2,3-Trichlorobenzene
Concen: 5.017 ug/l
RT: 14.322 min Scan# 4053
Delta R.T. 0.000 min
Lab File: VU063514.D
Acq: 16 Jul 2025 11:00

Tgt Ion:180 Resp: 41834

Ion	Ratio	Lower	Upper
180	100		
182	95.9	78.0	117.0
145	33.9	27.3	40.9



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Data File : VU063515.D
Acq On : 16 Jul 2025 11:37
Operator : MD/SY
Sample : VSTDICCC010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:25:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	25507	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	9419	0.975	ug/l	0.00
Spiked Amount 1.000			Recovery = 98.000%			
68) 1,2-Dichlorobenzene-d4	12.187	152	9149	1.024	ug/l	0.00
Spiked Amount 1.000			Recovery = 102.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.380	85	75576	10.049	ug/l	100
3) Chloromethane	1.518	50	68401	9.784	ug/l	100
4) Vinyl Chloride	1.599	62	90489	10.162	ug/l	100
5) Bromomethane	1.840	94	62116	9.251	ug/l	100
6) Chloroethane	1.923	64	54599	10.156	ug/l	100
7) Trichlorofluoromethane	2.126	101	129904	10.161	ug/l	100
8) 1,1,2-Trichloro-1,2,2-...	2.566	101	67855	10.156	ug/l	100
9) 1,1-Dichloroethene	2.566	96	67577	10.205	ug/l	100
10) Iodomethane	2.708	142	94216	9.560	ug/l	100
11) Allyl Chloride	2.907	41	97312	10.172	ug/l	100
12) Acrylonitrile	3.306	53	32316	19.501	ug/l	100
13) Acetone	2.618	43	63754	48.044	ug/l	100
14) Carbon Disulfide	2.775	76	219662	10.270	ug/l	100
15) Methylene Chloride	3.029	84	74766	9.590	ug/l	100
16) trans-1,2-Dichloroethene	3.335	96	76110	10.120	ug/l	100
17) 1,1-Dichloroethane	3.849	63	139986	10.042	ug/l	100
18) 2-Butanone	4.711	43	101743	49.509	ug/l	100
19) Cyclohexane	5.361	56	117794	9.980	ug/l	100
20) Methylcyclohexane	6.740	83	124959	10.893	ug/l	100
21) 2,2-Dichloropropane	4.644	77	115814	9.757	ug/l	100
22) cis-1,2-Dichloroethene	4.647	96	81707	10.012	ug/l	100
23) Diethyl Ether	2.367	59	52619	10.428	ug/l	100
24) tert-Butyl Alcohol	3.190	59	60952	100.062	ug/l	100
25) Methyl tert-Butyl Ether	3.361	73	176642	10.218	ug/l	100
26) Bromochloromethane	4.955	128	35072	10.293	ug/l	100
27) Chloroform	5.071	83	139474	9.805	ug/l	100
28) 1,1,1-Trichloroethane	5.296	97	122824	10.174	ug/l	100
29) 1,1-Dichloropropene	5.505	75	110654	9.894	ug/l	100
30) Carbon Tetrachloride	5.502	117	99861	10.277	ug/l	100
31) Isopropyl Ether	3.991	45	212065	10.078	ug/l	100
32) Ethyl-t-butyl ether	4.502	59	196224	10.077	ug/l	100
33) Tert-Amyl methyl ether	5.943	73	169757	10.045	ug/l	100
34) Propionitrile	4.772	54	29396	46.949	ug/l	100
35) Benzene	5.756	78	306660	10.205	ug/l	100
36) 1,2-Dichloroethane	5.782	62	95989	10.281	ug/l	100
37) Trichloroethene	6.525	130	82269	10.731	ug/l	100
38) 1,2-Dichloropropane	6.779	63	80452	11.439	ug/l	100
39) Methacrylonitrile	4.972	41	25859	9.408	ug/l	100
40) Methyl acrylate	4.846	55	42948	10.557	ug/l	100
41) Tetrahydrofuran	5.058	42	26672	18.218	ug/l	100
42) 1-Chlorobutane	5.438	56	150746	10.139	ug/l	100
43) Dibromomethane	6.907	93	39219	10.765	ug/l	100
44) Bromodichloromethane	7.094	83	83585	10.173	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063515.D
Acq On : 16 Jul 2025 11:37
Operator : MD/SY
Sample : VSTDICCC010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:25:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.798	43	194373	51.766	ug/l	100
46) t-1,4-Dichloro-2-butene	10.820	75	32073m	24.076	ug/l	
47) Methyl methacrylate	6.962	69	64875	21.203	ug/l	100
48) Ethyl methacrylate	8.335	69	64347	11.020	ug/l	100
49) Toluene	7.959	92	171146	10.432	ug/l	100
50) t-1,3-Dichloropropene	8.203	75	72787	11.292	ug/l	100
51) cis-1,3-Dichloropropene	7.598	75	92302	10.668	ug/l	100
52) 1,1,2-Trichloroethane	8.393	97	51547	10.510	ug/l	100
53) 1,3-Dichloropropane	8.569	76	87683	10.355	ug/l	100
54) 2-Hexanone	8.688	43	131332	52.658	ug/l	100
55) Dibromochloromethane	8.801	129	59098	11.401	ug/l	100
56) 1,2-Dibromoethane	8.917	107	45601	10.388	ug/l	100
58) Tetrachloroethene	8.540	164	72806	10.376	ug/l	100
59) Chlorobenzene	9.441	112	196780	10.443	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.528	131	64850	10.702	ug/l	100
61) Pentachloroethane	11.418	117	47516	11.097	ug/l	100
62) Hexachloroethane	12.466	117	49020	11.561	ug/l	100
63) Ethyl Benzene	9.563	91	335269	10.340	ug/l	100
64) m/p-Xylenes	9.685	106	264769	21.007	ug/l	100
65) o-Xylene	10.094	106	128634	10.621	ug/l	100
66) Styrene	10.106	104	209876	10.873	ug/l	100
67) Bromoform	10.283	173	30149	11.325	ug/l	100
69) Isopropylbenzene	10.476	105	313810	10.718	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.775	83	61909	10.373	ug/l	100
71) 1,2,3-Trichloropropane	10.817	75	53057m	10.893	ug/l	
72) Bromobenzene	10.775	156	78897	10.441	ug/l	100
73) n-propylbenzene	10.897	120	95656	10.853	ug/l	100
74) 2-Chlorotoluene	10.978	126	82104	10.540	ug/l	100
75) 1,3,5-Trimethylbenzene	11.081	105	301469	10.778	ug/l	100
76) 4-Chlorotoluene	11.090	126	84140	10.636	ug/l	100
77) tert-Butylbenzene	11.412	119	286405	10.714	ug/l	100
78) 1,2,4-Trimethylbenzene	11.460	105	300364	10.824	ug/l	100
79) sec-Butylbenzene	11.634	105	386577	10.724	ug/l	100
80) Nitrobenzene	13.203	77	6826	50.800	ug/l	100
81) p-Isopropyltoluene	11.785	119	325219	10.808	ug/l	100
82) 1,3-Dichlorobenzene	11.737	146	160312	10.603	ug/l	100
83) 1,4-Dichlorobenzene	11.830	146	161963	10.702	ug/l	100
84) n-Butylbenzene	12.200	91	308761	11.063	ug/l	100
85) 1,2-Dichlorobenzene	12.206	146	152208	10.716	ug/l	100
86) 1,2-Dibromo-3-Chloropr...	12.987	75	10205	10.093	ug/l	100
87) 1,2,4-Trichlorobenzene	13.833	180	98105	11.107	ug/l	100
88) Hexachlorobutadiene	14.013	225	53764	10.718	ug/l	100
89) Naphthalene	14.080	128	173115	10.937	ug/l	100
90) 1,2,3-Trichlorobenzene	14.322	180	89908	11.015	ug/l	100

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

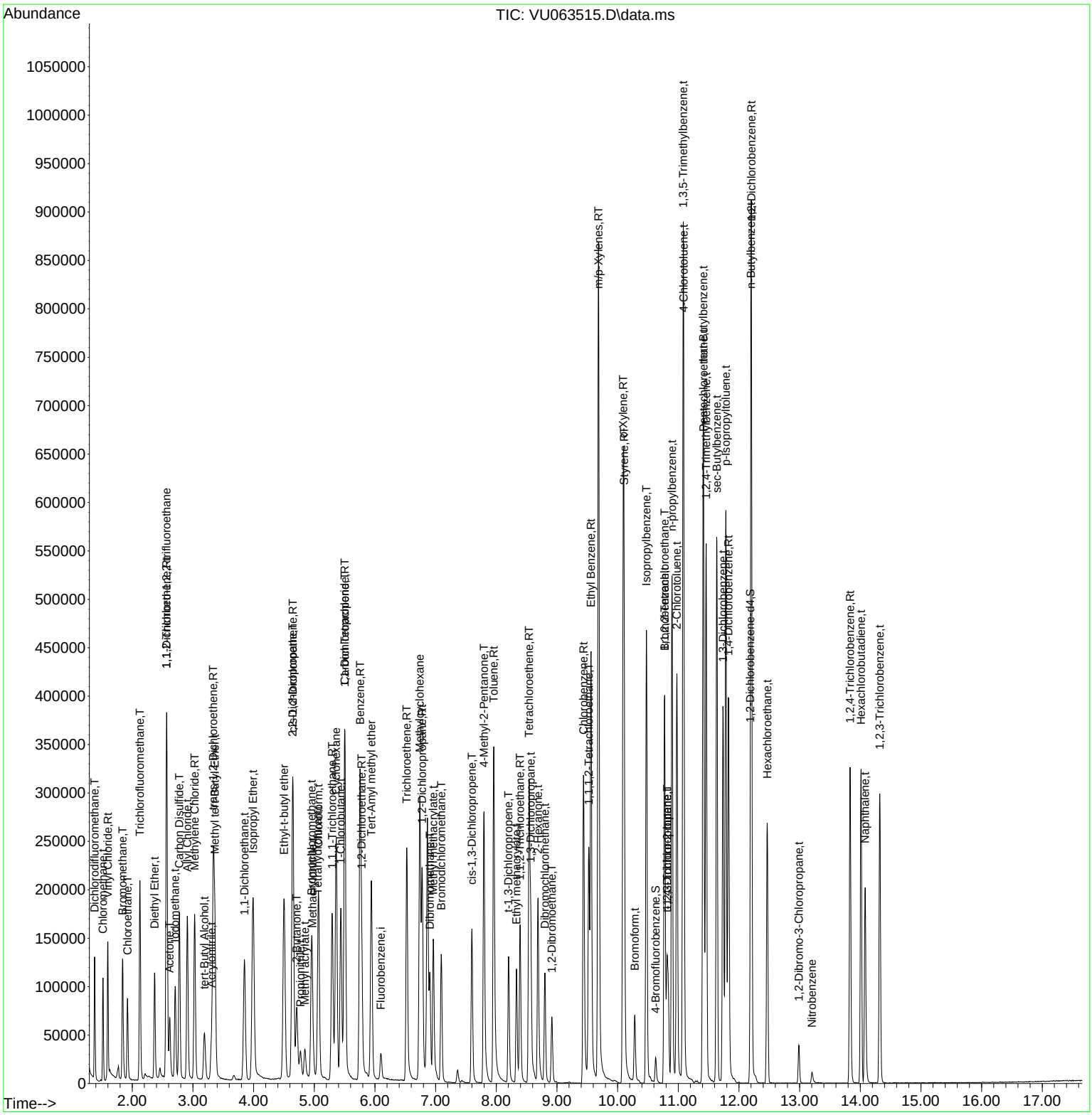
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063515.D
Acq On : 16 Jul 2025 11:37
Operator : MD/SY
Sample : VSTDICCC010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

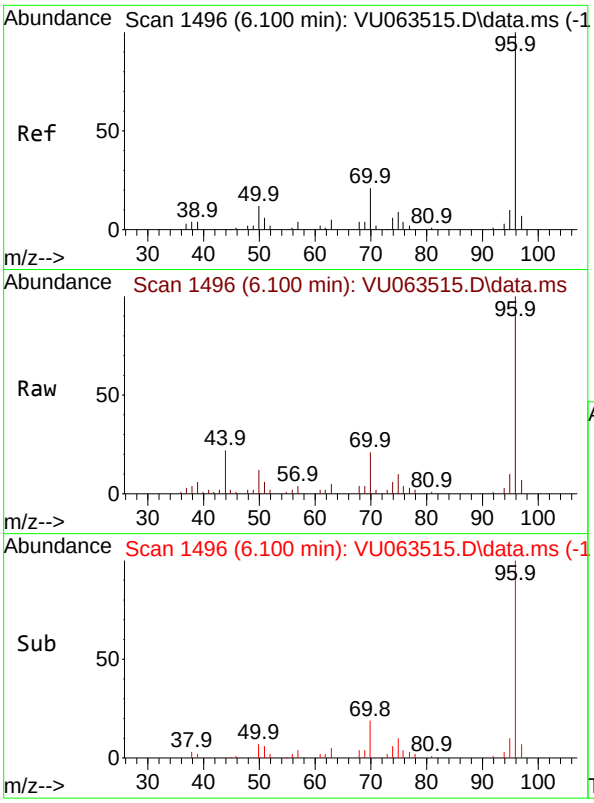
Quant Time: Jul 17 03:25:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

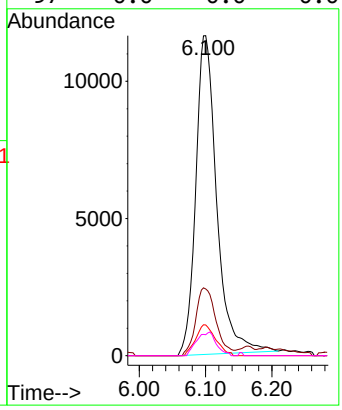




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.100 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 96 Resp: 2550

Ion	Ratio	Lower	Upper
96	100		
70	18.7	15.0	22.4
95	9.2	7.4	11.0
97	0.0	0.0	0.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

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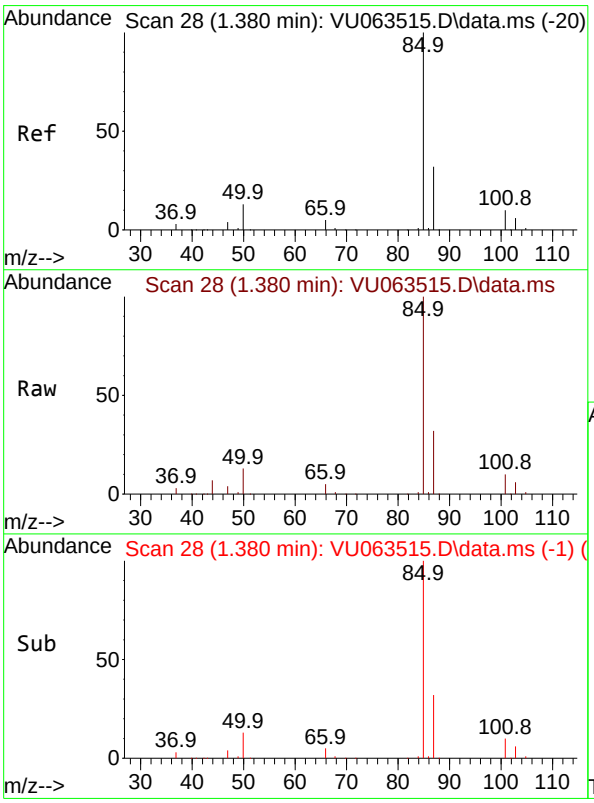
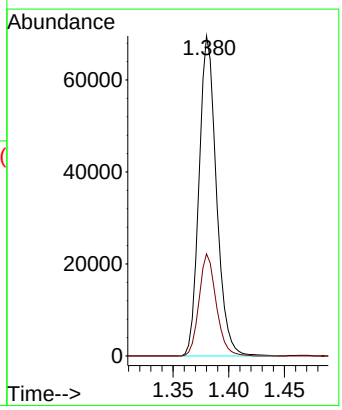
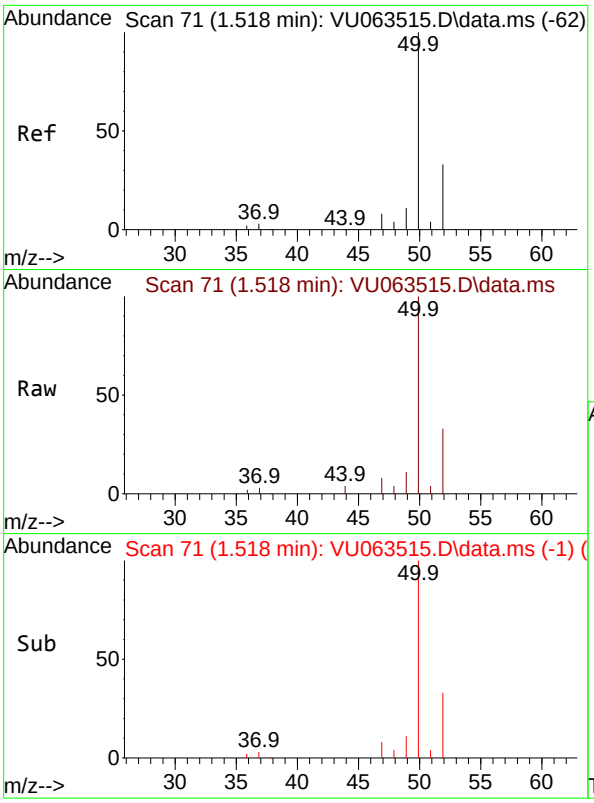


#2
Dichlorodifluoromethane
Concen: 10.049 ug/l
RT: 1.380 min Scan# 28
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 85 Resp: 75576

Ion	Ratio	Lower	Upper
85	100		
87	31.9	16.0	47.9

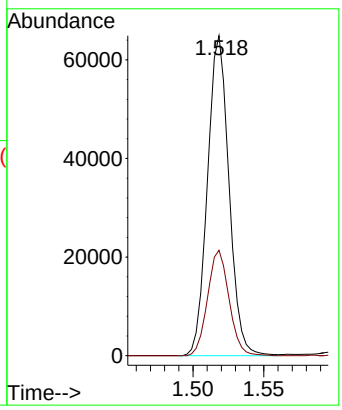




#3
Chloromethane
Concen: 9.784 ug/l
RT: 1.518 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 50 Resp: 6840

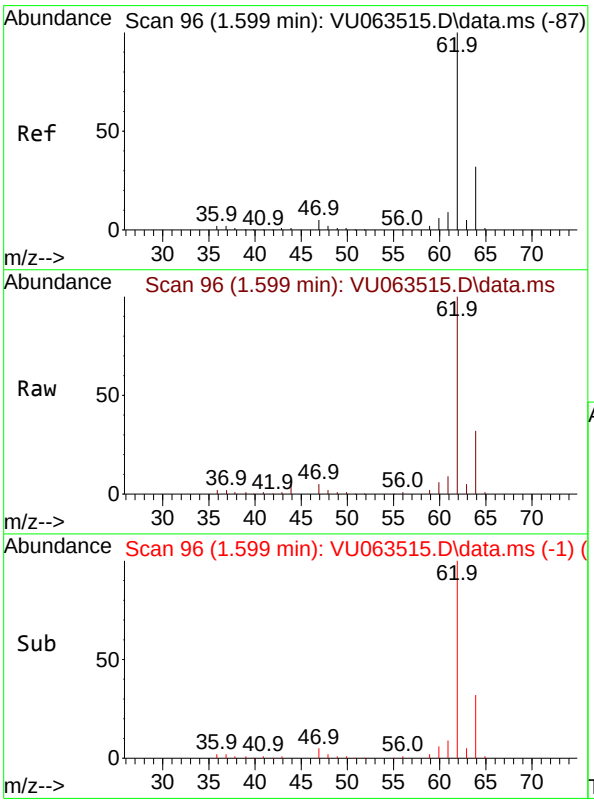
Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.3	39.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

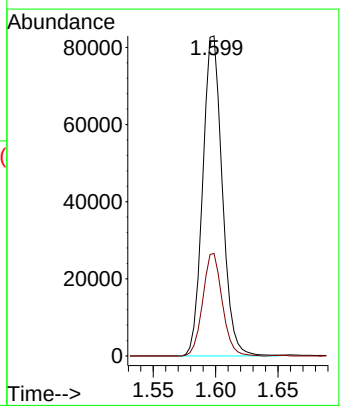
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

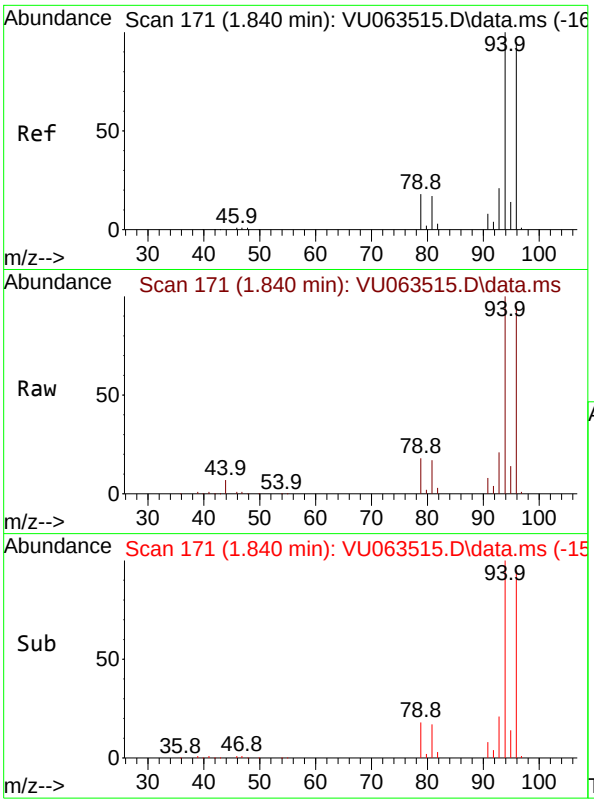


#4
Vinyl Chloride
Concen: 10.162 ug/l
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 62 Resp: 90489

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.7	38.5

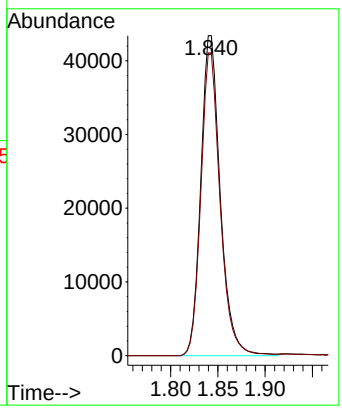




#5
Bromomethane
Concen: 9.251 ug/l
RT: 1.840 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 94 Resp: 6211

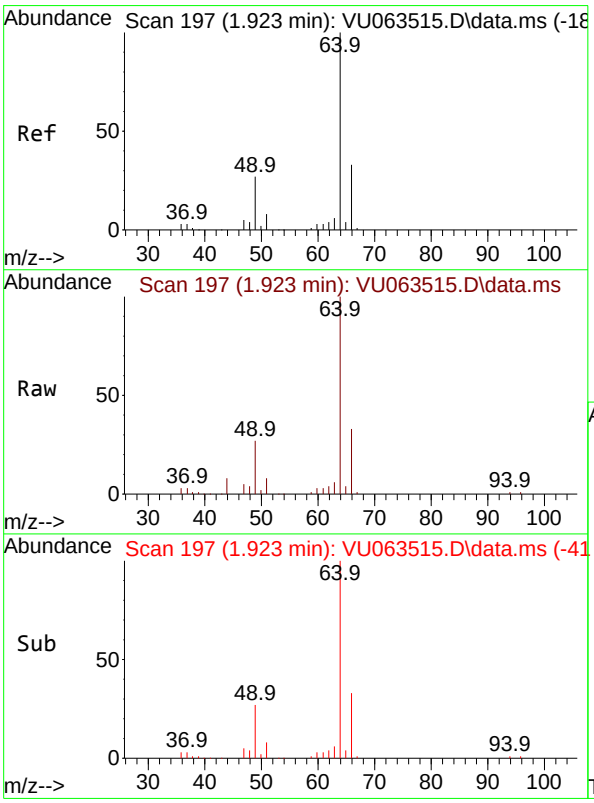
Ion	Ratio	Lower	Upper
94	100		
96	94.7	75.8	113.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

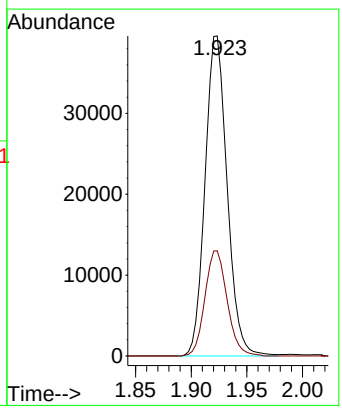
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

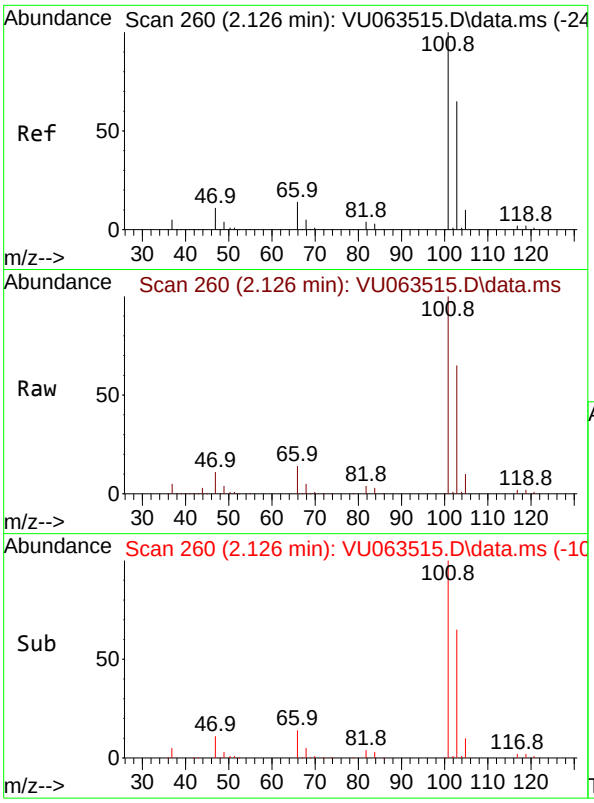


#6
Chloroethane
Concen: 10.156 ug/l
RT: 1.923 min Scan# 197
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 64 Resp: 54599

Ion	Ratio	Lower	Upper
64	100		
66	32.8	26.2	39.4





#7
Trichlorofluoromethane
Concen: 10.161 ug/l
RT: 2.126 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

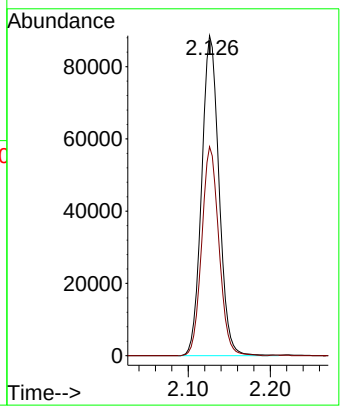
Tgt Ion:101 Resp: 12990

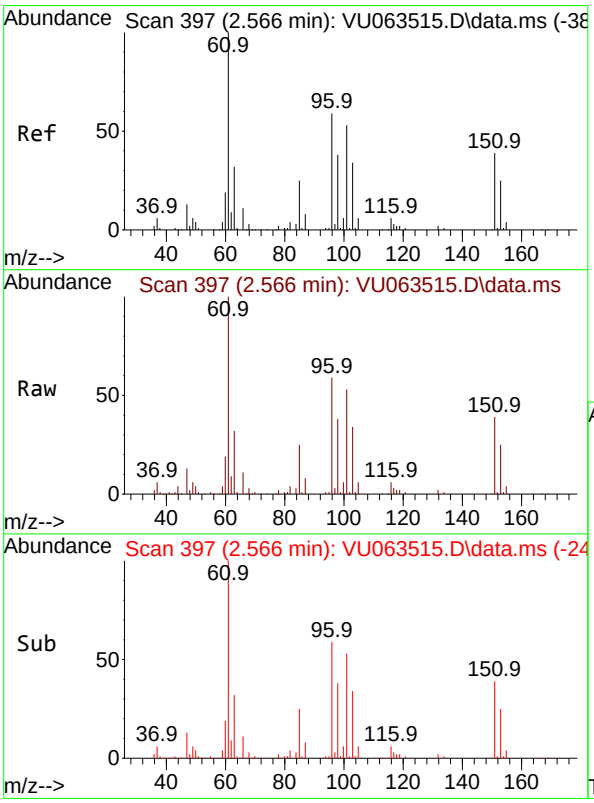
Ion	Ratio	Lower	Upper
101	100		
103	65.3	52.2	78.4

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

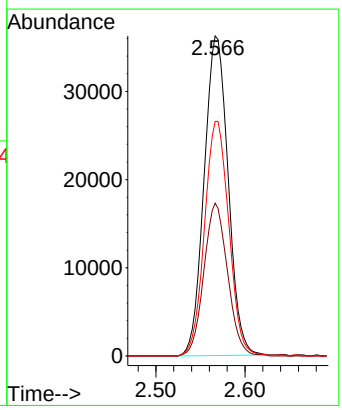


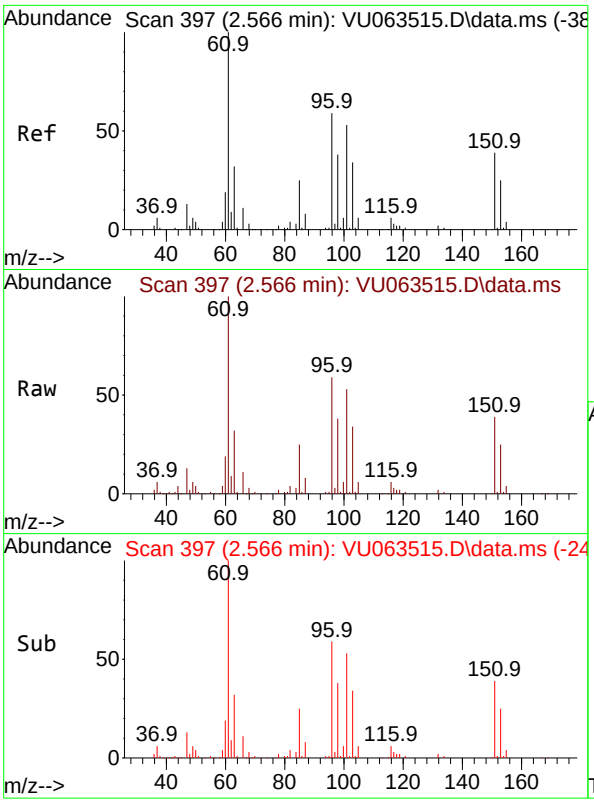


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 10.156 ug/l
RT: 2.566 min Scan# 397
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:101 Resp: 67855

Ion	Ratio	Lower	Upper
101	100		
85	47.2	37.8	56.6
151	74.0	59.2	88.8

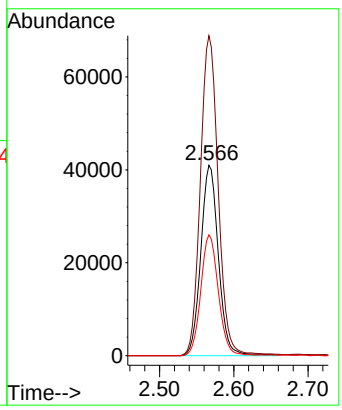




#9
1,1-Dichloroethene
Concen: 10.205 ug/l
RT: 2.566 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 96 Resp: 6757

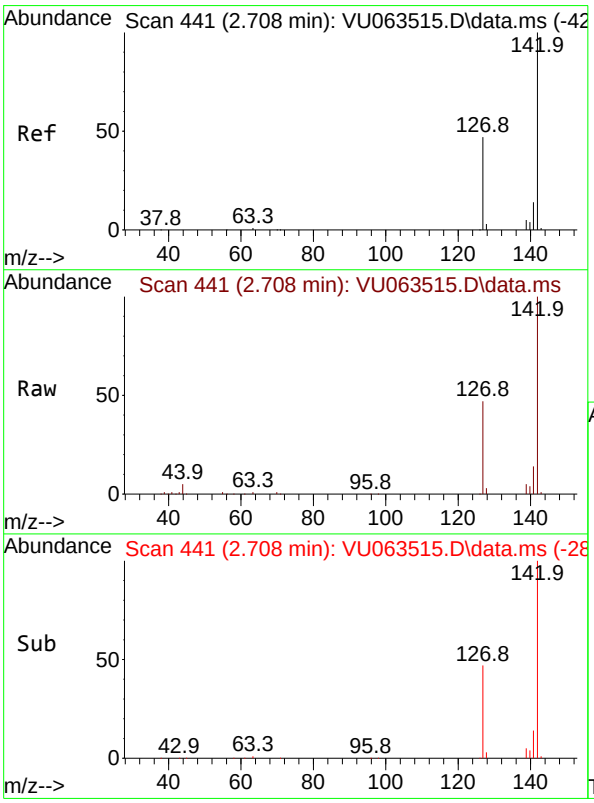
Ion	Ratio	Lower	Upper
96	100		
61	168.1	0.0	504.3
98	63.4	0.0	126.8



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

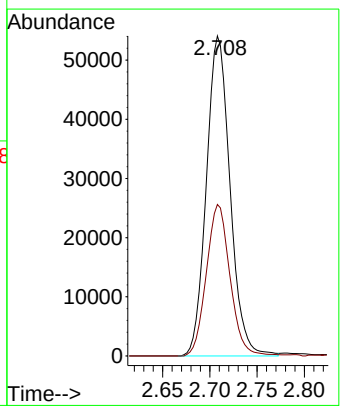
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

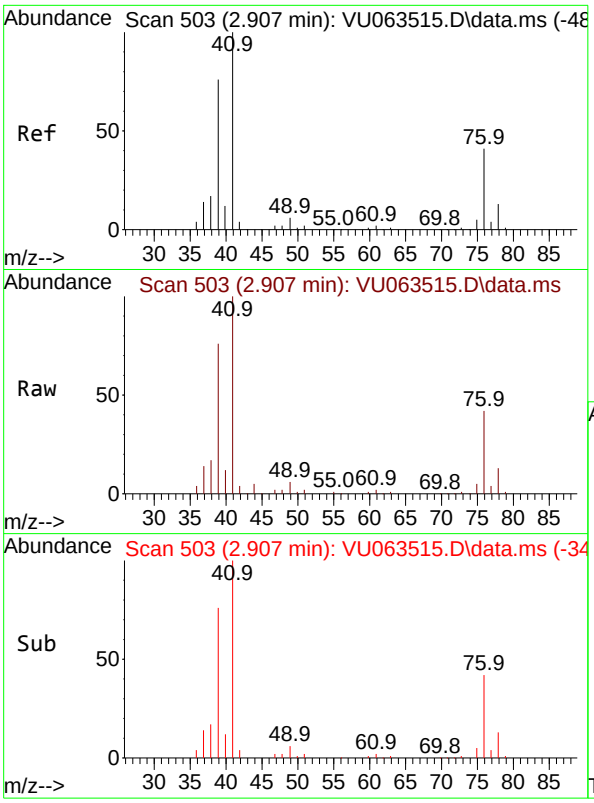


#10
Iodomethane
Concen: 9.560 ug/l
RT: 2.708 min Scan# 441
Delta R.T. -0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:142 Resp: 94216

Ion	Ratio	Lower	Upper
142	100		
127	47.4	37.9	56.9

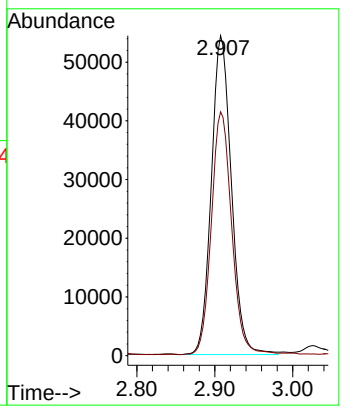




#11
Allyl Chloride
Concen: 10.172 ug/l
RT: 2.907 min Scan# 5
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 41 Resp: 9731

Ion	Ratio	Lower	Upper
41	100		
39	76.9	61.5	92.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

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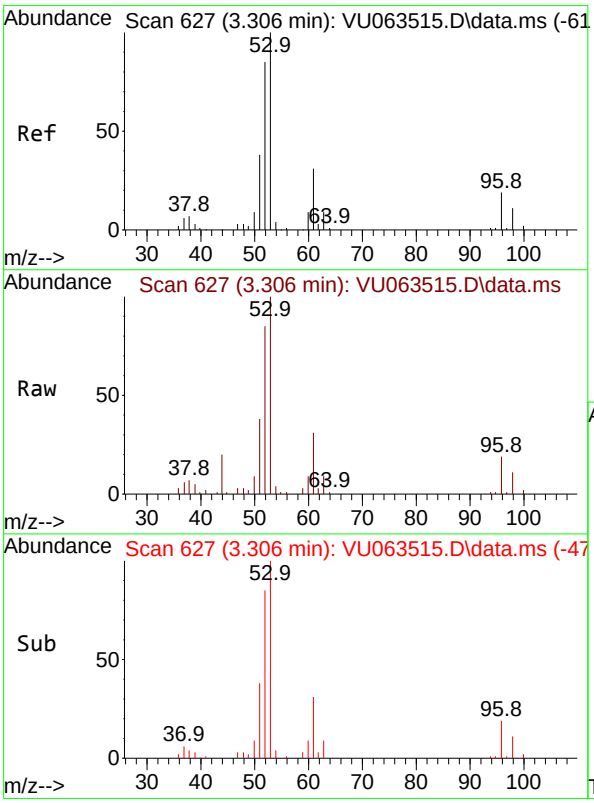
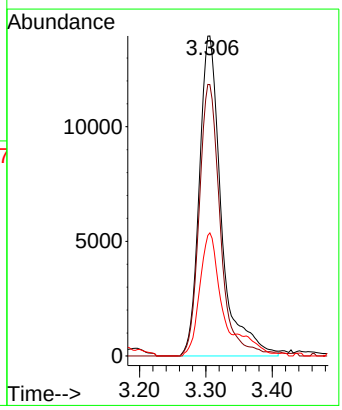
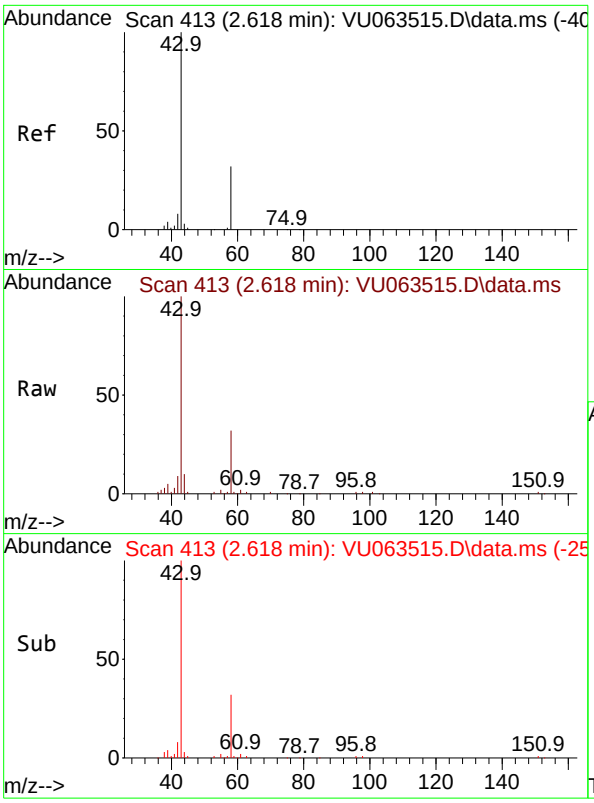


#12
Acrylonitrile
Concen: 19.501 ug/l
RT: 3.306 min Scan# 627
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 53 Resp: 32316

Ion	Ratio	Lower	Upper
53	100		
52	80.4	64.3	96.5
51	34.8	27.8	41.8

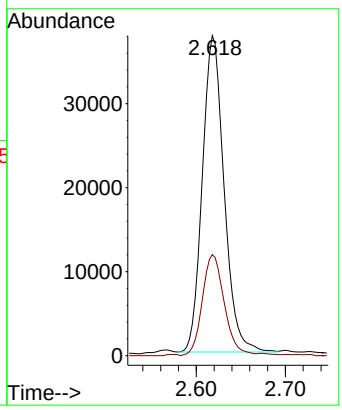




#13
Acetone
Concen: 48.044 ug/l
RT: 2.618 min Scan# 41
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 43 Resp: 6375

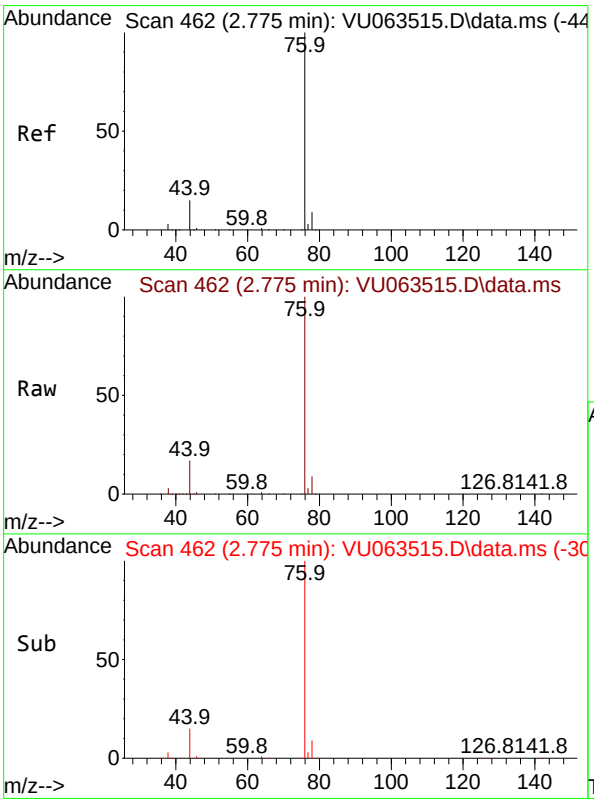
Ion	Ratio	Lower	Upper
43	100		
58	31.7	25.4	38.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

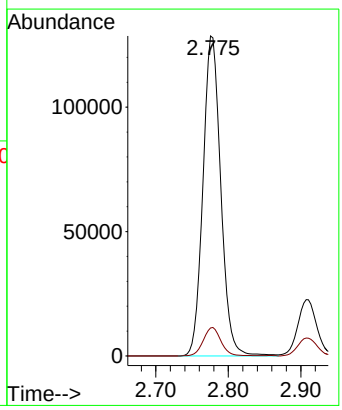
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

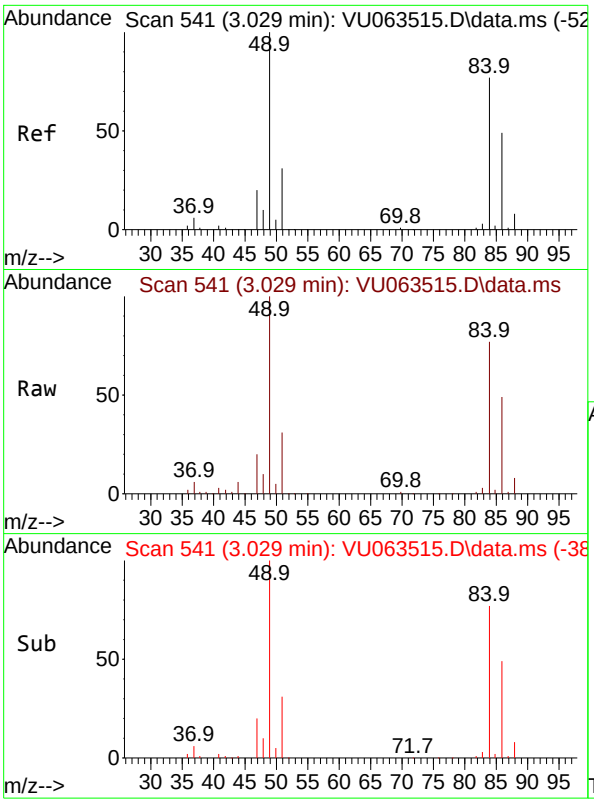


#14
Carbon Disulfide
Concen: 10.270 ug/l
RT: 2.775 min Scan# 462
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 76 Resp: 219662

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.6

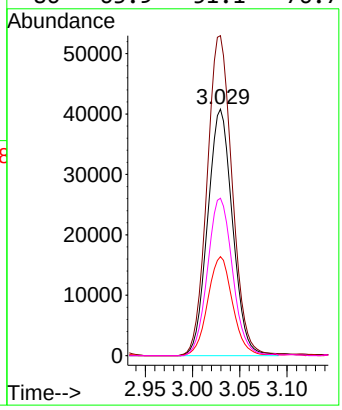




#15
Methylene Chloride
Concen: 9.590 ug/l
RT: 3.029 min Scan# 54
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 84 Resp: 7476

Ion	Ratio	Lower	Upper
84	100		
49	129.8	103.8	155.8
51	40.2	0.0	80.4
86	63.9	51.1	76.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

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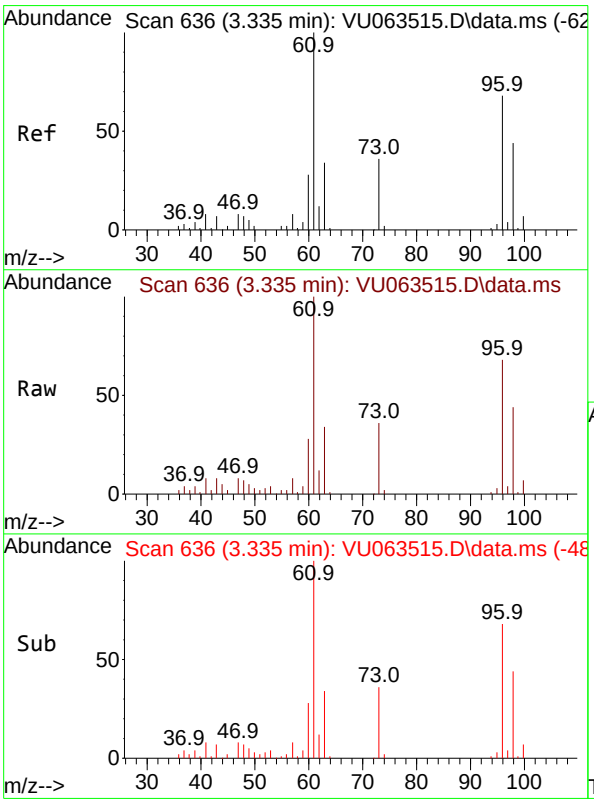
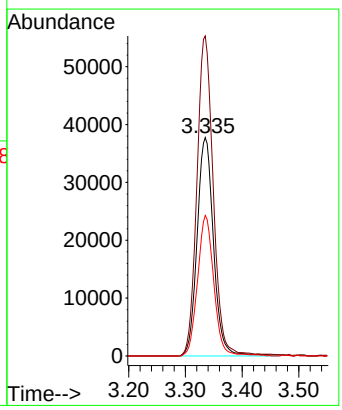
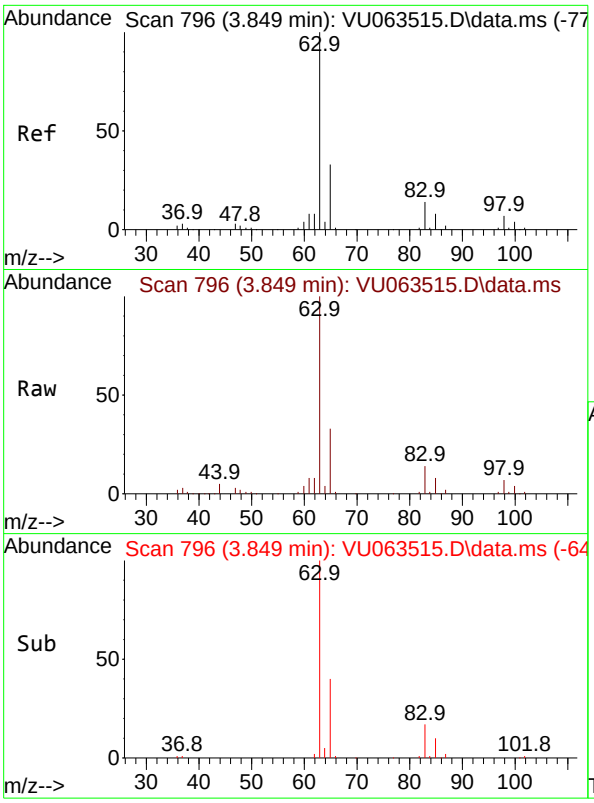


#16
trans-1,2-Dichloroethene
Concen: 10.120 ug/l
RT: 3.335 min Scan# 636
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 96 Resp: 76110

Ion	Ratio	Lower	Upper
96	100		
61	146.5	117.2	175.8
98	64.3	51.4	77.2

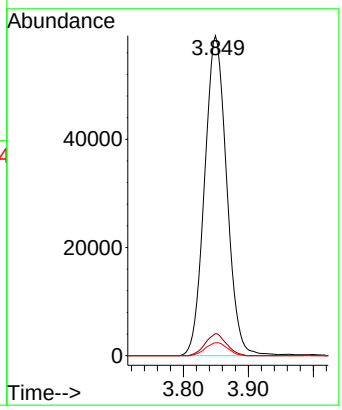




#17
1,1-Dichloroethane
Concen: 10.042 ug/l
RT: 3.849 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 63 Resp: 13998

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.1	2.1	6.2



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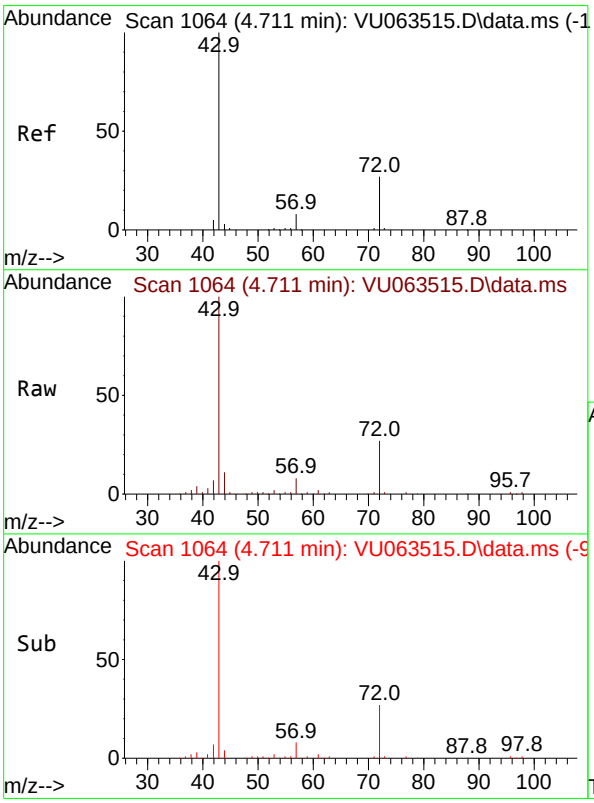
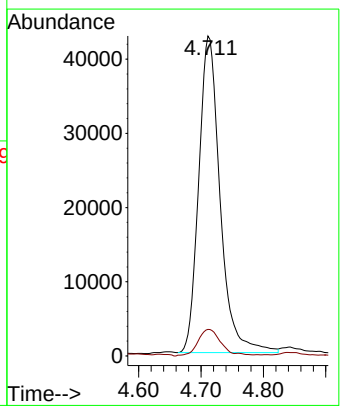
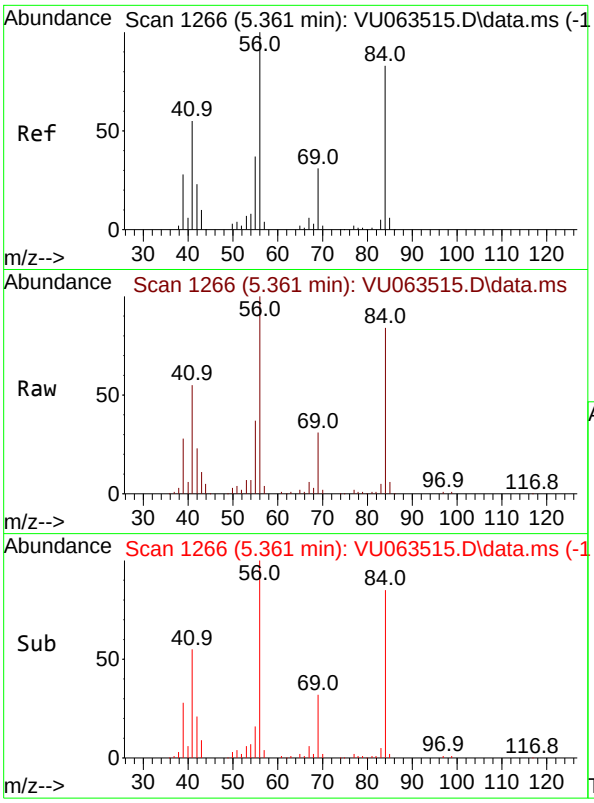


#18
2-Butanone
Concen: 49.509 ug/l
RT: 4.711 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 43 Resp: 101743

Ion	Ratio	Lower	Upper
43	100		
57	8.2	0.0	16.4

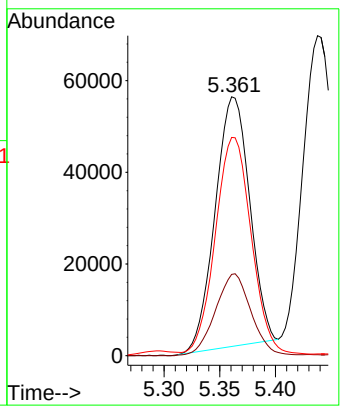




#19
Cyclohexane
Concen: 9.980 ug/l
RT: 5.361 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 56 Resp: 11779

Ion	Ratio	Lower	Upper
56	100		
69	33.2	26.6	39.8
84	88.7	71.0	106.4



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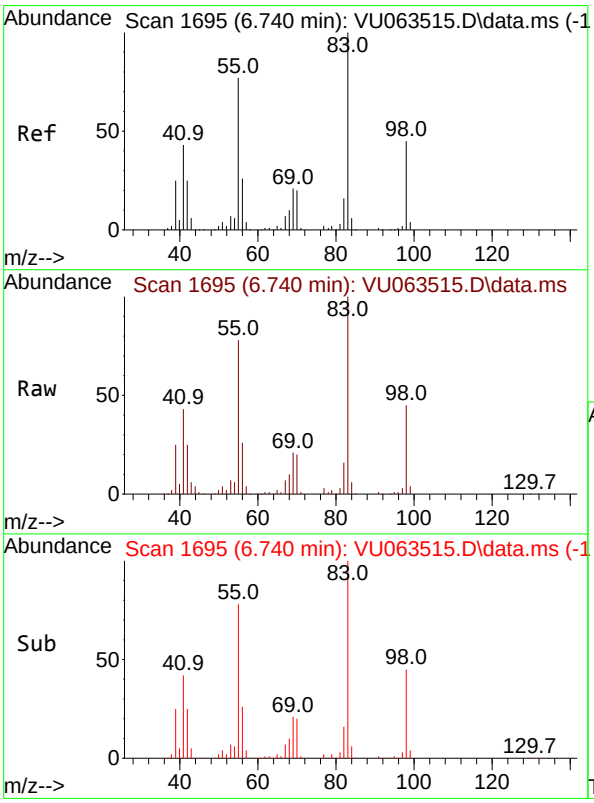
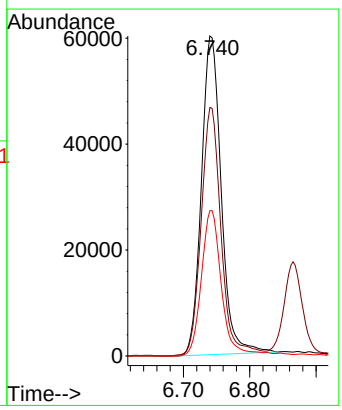
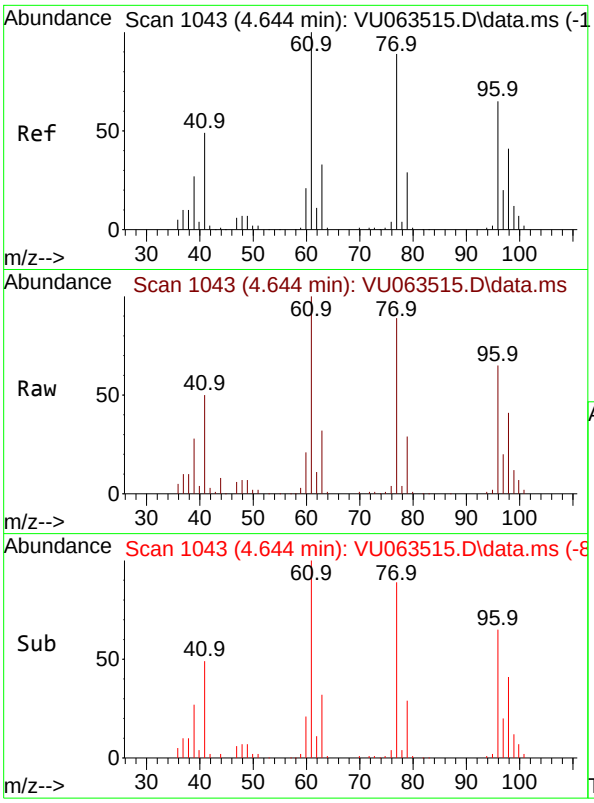


#20
Methylcyclohexane
Concen: 10.893 ug/l
RT: 6.740 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 83 Resp: 124959

Ion	Ratio	Lower	Upper
83	100		
55	75.7	60.6	90.8
98	44.8	35.8	53.8

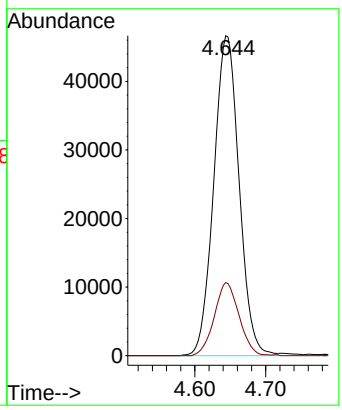




#21
2,2-Dichloropropane
Concen: 9.757 ug/l
RT: 4.644 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 77 Resp: 11581

Ion	Ratio	Lower	Upper
77	100		
97	22.3	17.8	26.8



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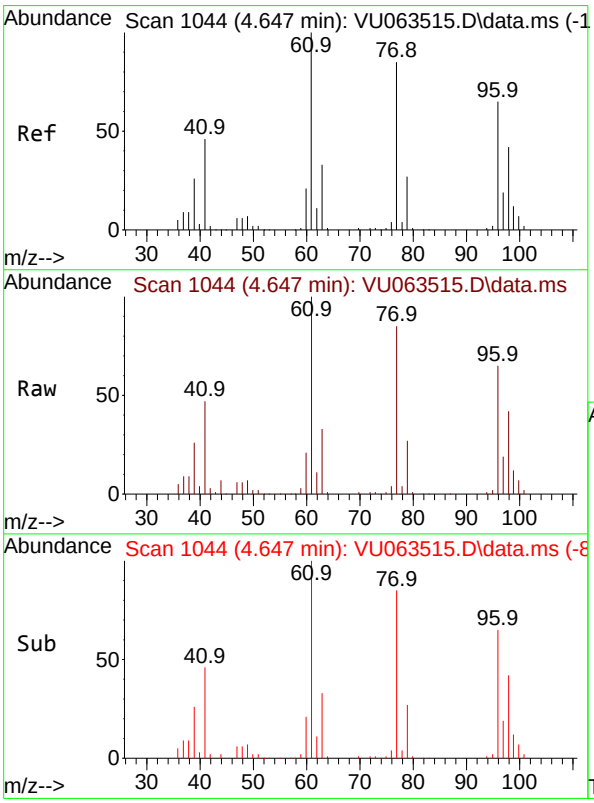
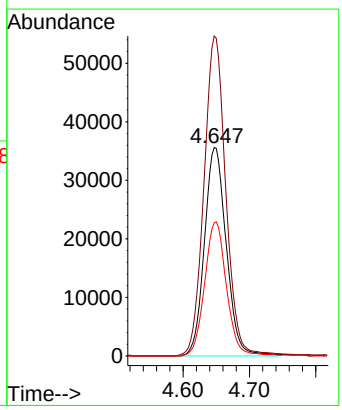
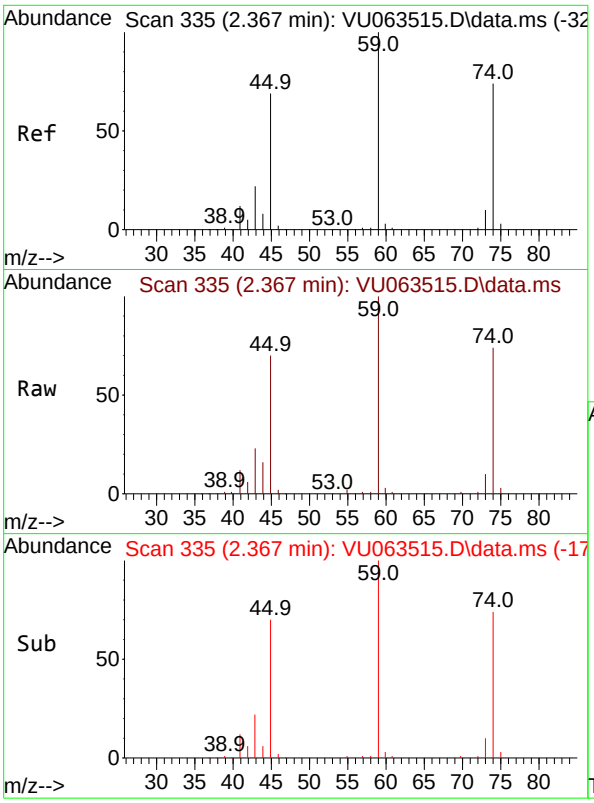


#22
cis-1,2-Dichloroethene
Concen: 10.012 ug/l
RT: 4.647 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 96 Resp: 81707

Ion	Ratio	Lower	Upper
96	100		
61	153.9	0.0	384.7
98	64.2	32.1	96.3

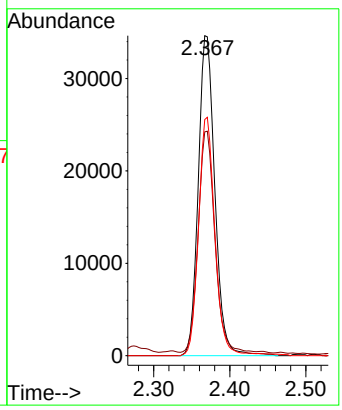




#23
Diethyl Ether
Concen: 10.428 ug/l
RT: 2.367 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 59 Resp: 5261

Ion	Ratio	Lower	Upper
59	100		
45	68.9	55.1	82.7
74	72.8	58.2	87.4



Instrument :
MSVOA_U
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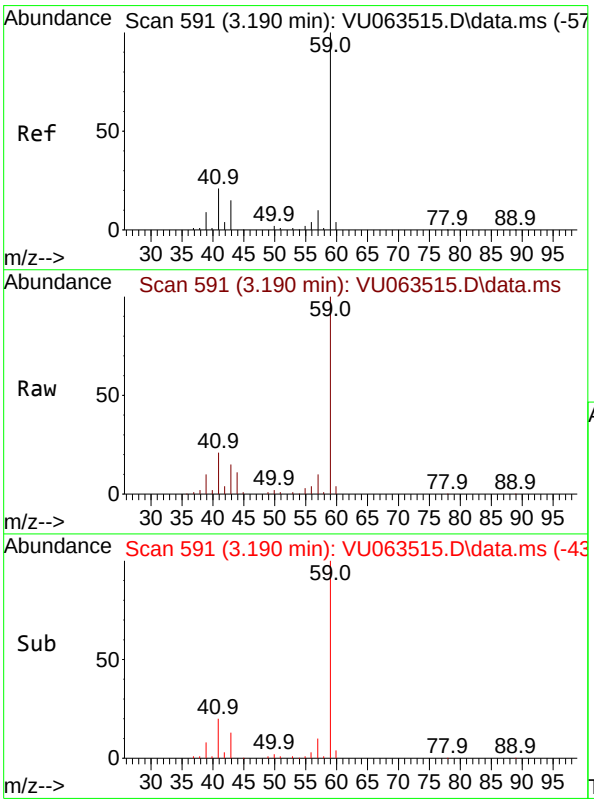
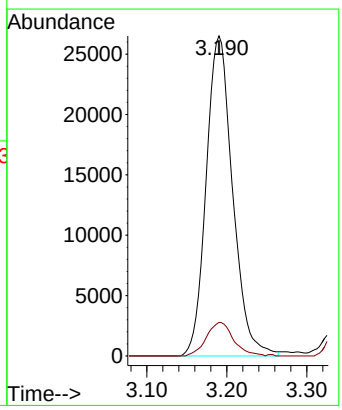
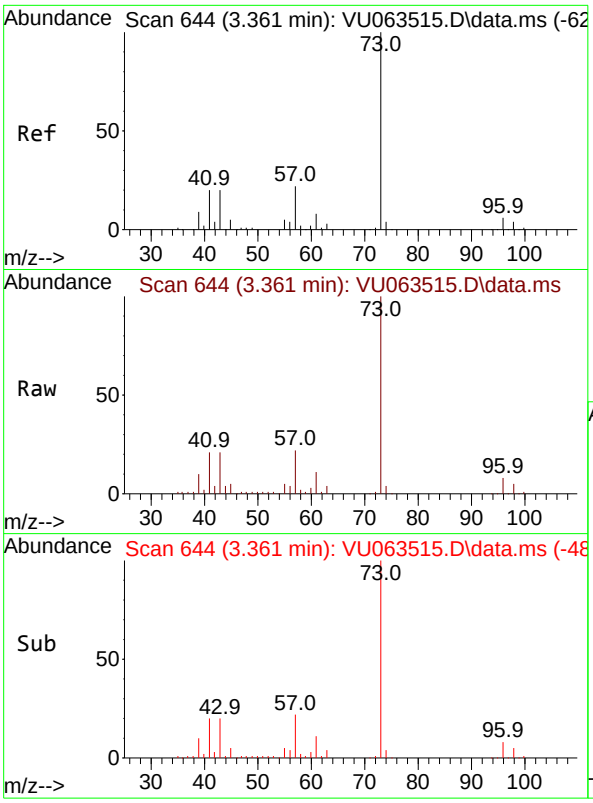


#24
tert-Butyl Alcohol
Concen: 100.062 ug/l
RT: 3.190 min Scan# 591
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 59 Resp: 60952

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	12.8





#25
Methyl tert-Butyl Ether
Concen: 10.218 ug/l
RT: 3.361 min Scan# 64
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 73 Resp: 17664

Ion	Ratio	Lower	Upper
73	100		
43	20.2	16.2	24.2

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

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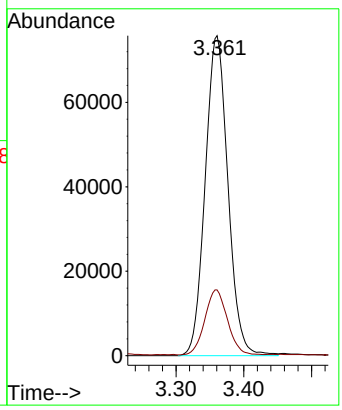
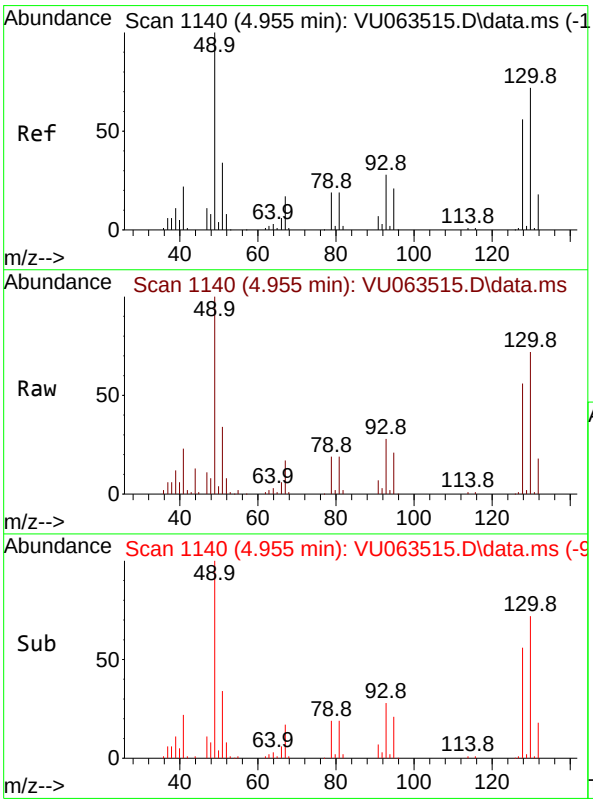
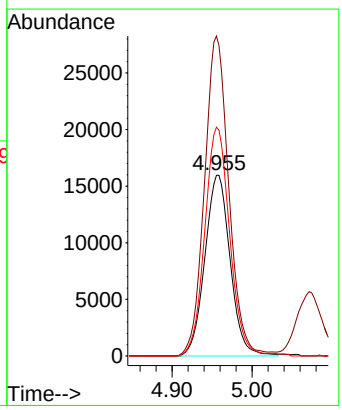


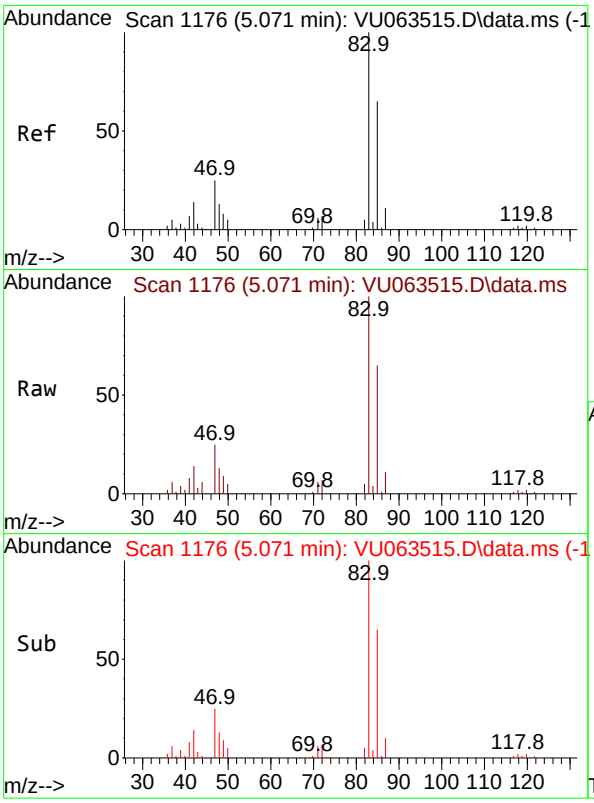


#26
Bromochloromethane
Concen: 10.293 ug/l
RT: 4.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:128 Resp: 35072

Ion	Ratio	Lower	Upper
128	100		
49	170.4	0.0	340.8
130	125.6	100.5	150.7

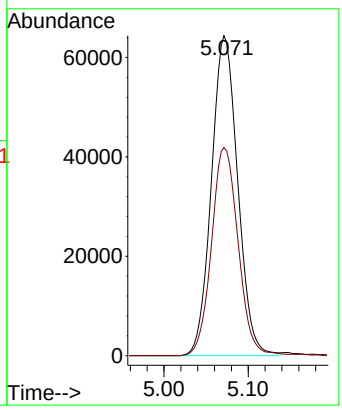




#27
Chloroform
Concen: 9.805 ug/l
RT: 5.071 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 83 Resp: 13947

Ion	Ratio	Lower	Upper
83	100		
85	65.0	0.0	130.0



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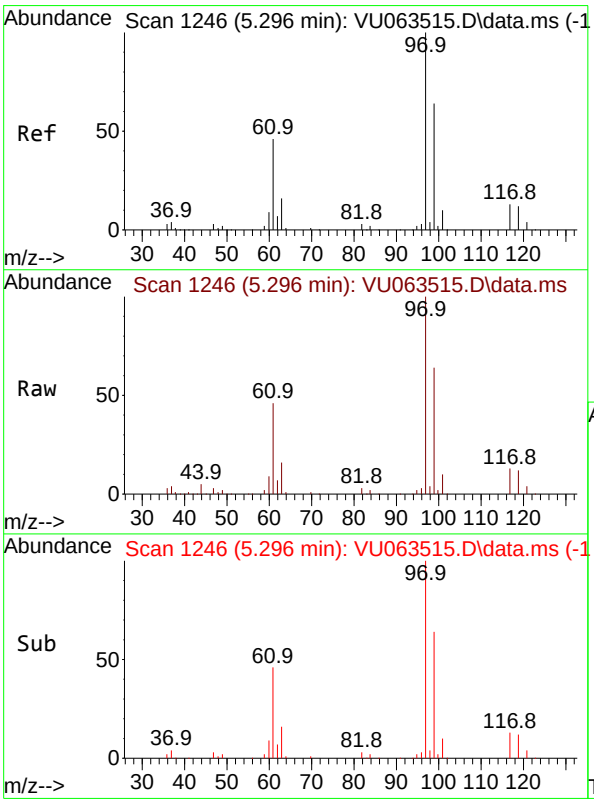
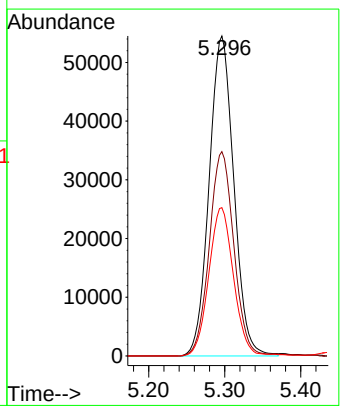
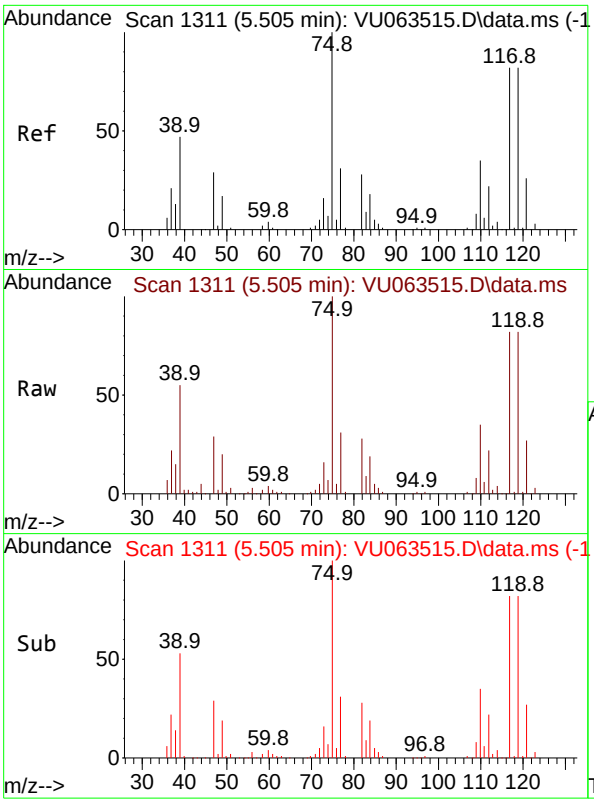


#28
1,1,1-Trichloroethane
Concen: 10.174 ug/l
RT: 5.296 min Scan# 1246
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 97 Resp: 122824

Ion	Ratio	Lower	Upper
97	100		
99	63.5	31.8	95.3
61	46.6	23.3	69.9

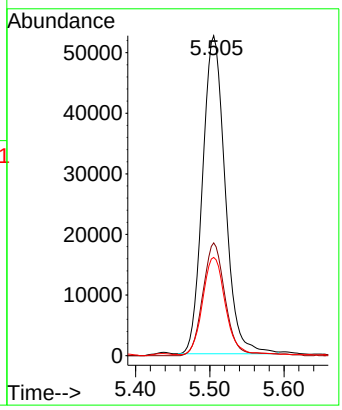




#29
1,1-Dichloropropene
Concen: 9.894 ug/l
RT: 5.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 75 Resp: 11065

Ion	Ratio	Lower	Upper
75	100		
110	35.6	17.8	53.4
77	30.8	24.6	37.0



Instrument :
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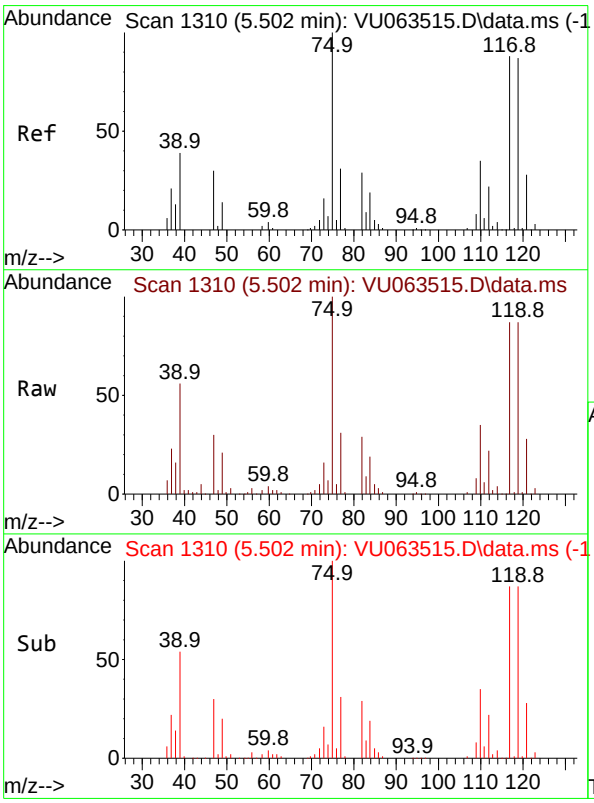
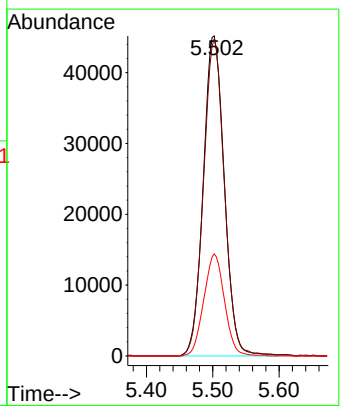
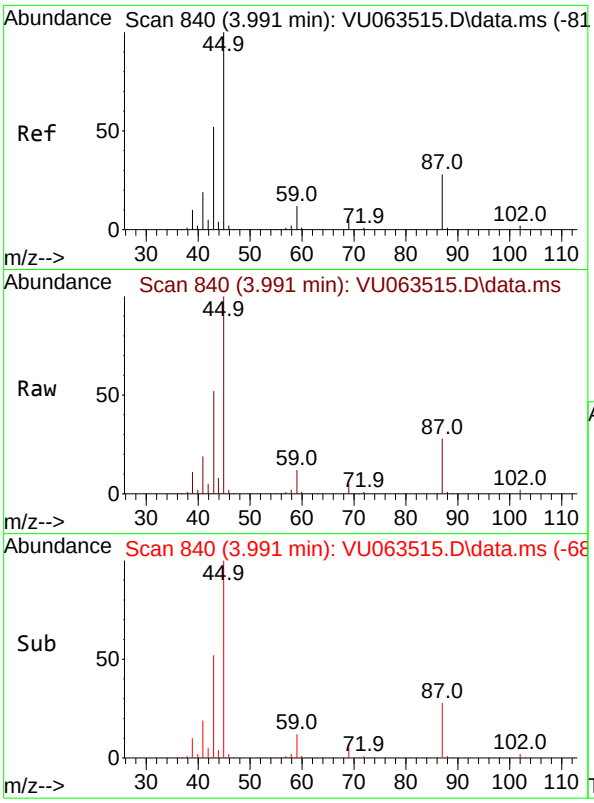


#30
Carbon Tetrachloride
Concen: 10.277 ug/l
RT: 5.502 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:117 Resp: 99861

Ion	Ratio	Lower	Upper
117	100		
119	99.0	79.2	118.8
121	31.9	25.5	38.3





#31
Isopropyl Ether
Concen: 10.078 ug/l
RT: 3.991 min Scan# 84
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 45 Resp: 21206

Ion	Ratio	Lower	Upper
45	100		
43	51.3	25.7	77.0

Instrument :
MSVOA_U
ClientSampleId :
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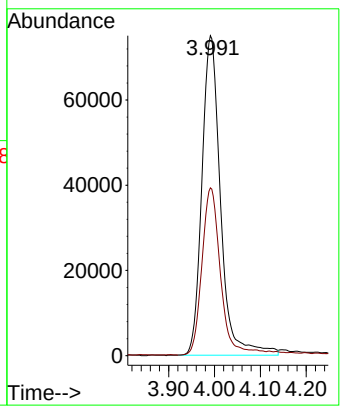
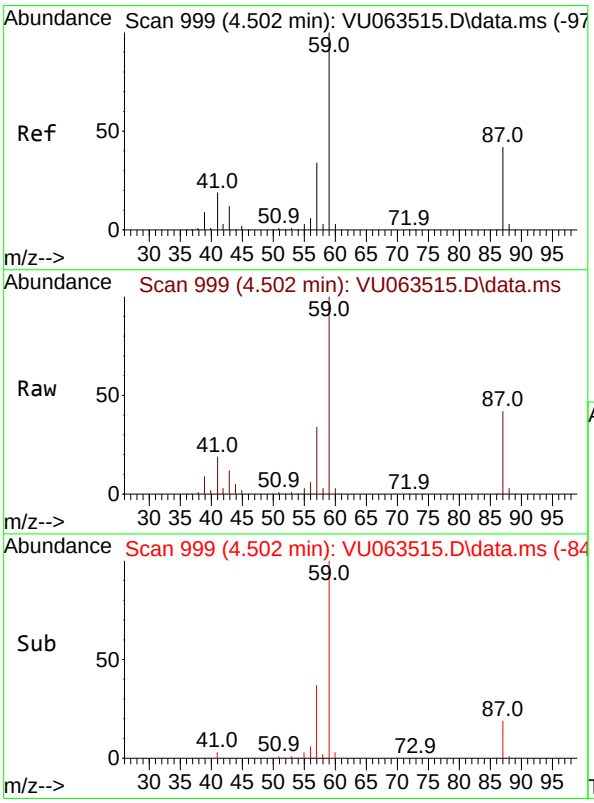
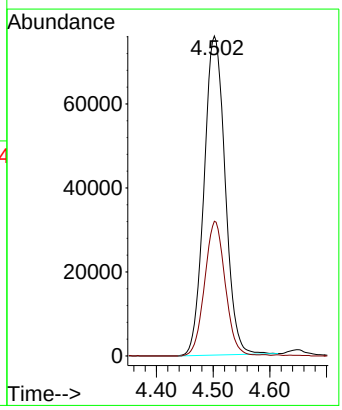


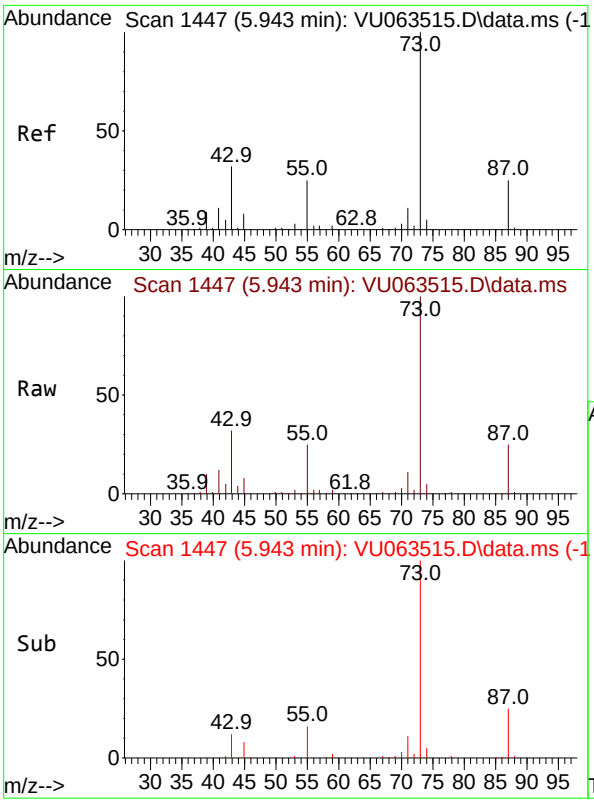


#32
Ethyl-t-butyl ether
Concen: 10.077 ug/l
RT: 4.502 min Scan# 999
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 59 Resp: 196224

Ion	Ratio	Lower	Upper
59	100		
87	40.8	32.6	49.0

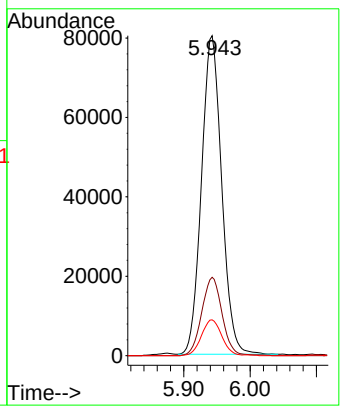




#33
Tert-Amyl methyl ether
Concen: 10.045 ug/l
RT: 5.943 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 73 Resp: 16975

Ion	Ratio	Lower	Upper
73	100		
87	24.3	19.4	29.2
71	11.1	8.9	13.3



Instrument :
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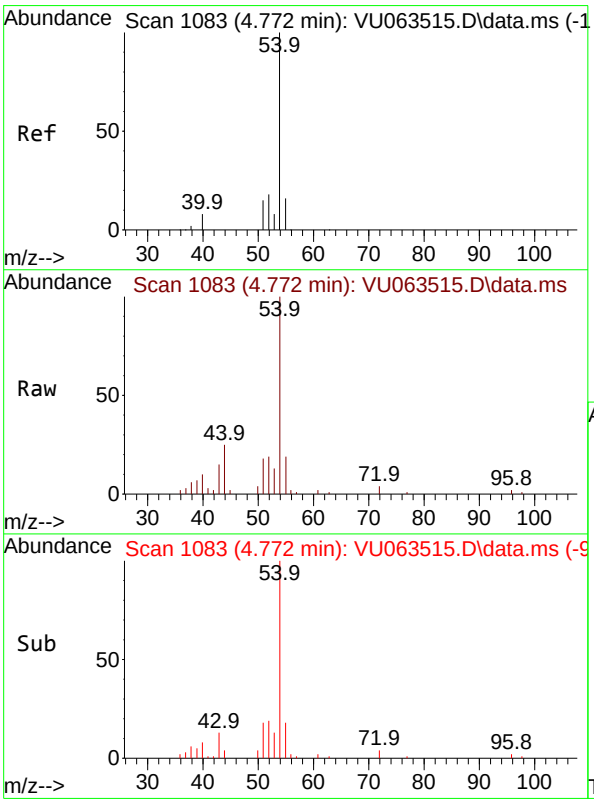
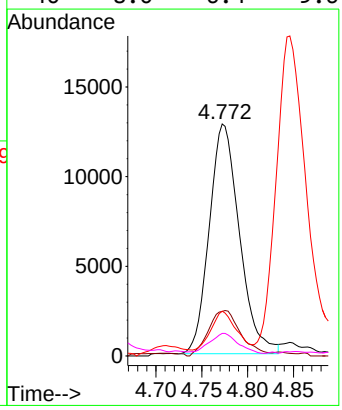
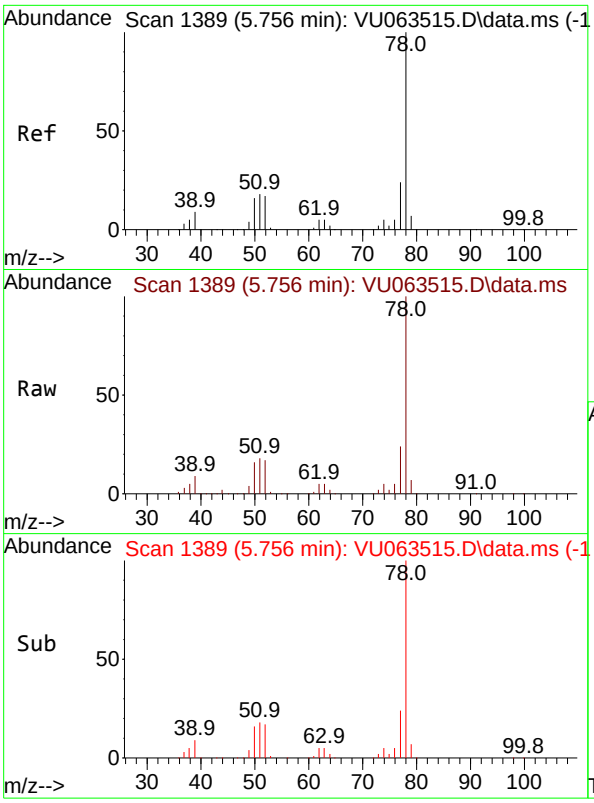


#34
Propionitrile
Concen: 46.949 ug/l
RT: 4.772 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 54 Resp: 29396

Ion	Ratio	Lower	Upper
54	100		
52	21.2	17.0	25.4
55	17.0	13.6	20.4
40	8.0	6.4	9.6

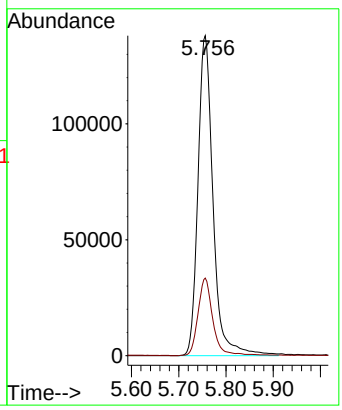




#35
Benzene
Concen: 10.205 ug/l
RT: 5.756 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 78 Resp: 30666

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.4	29.2



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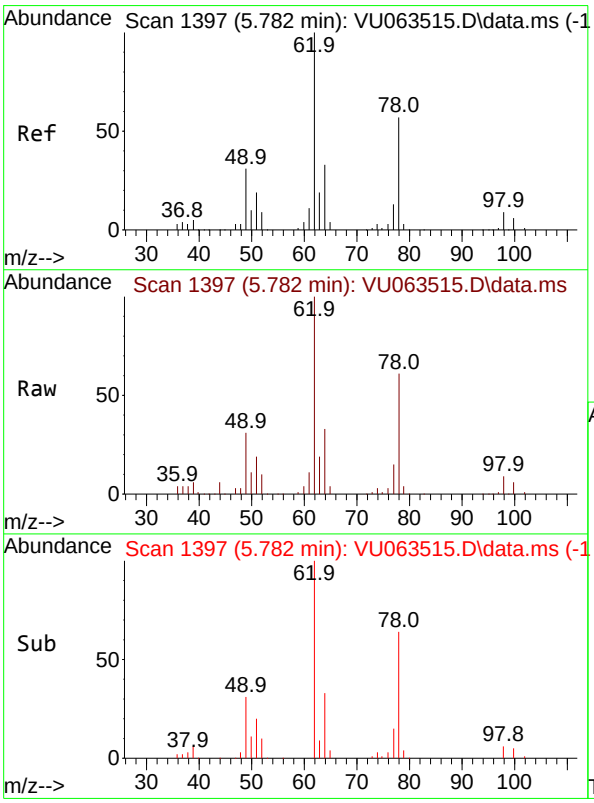
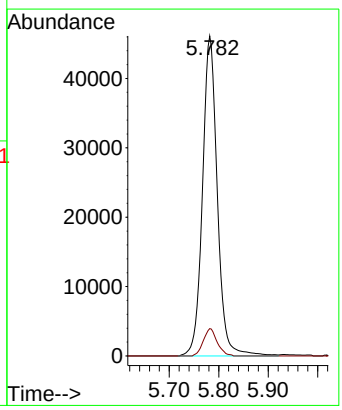
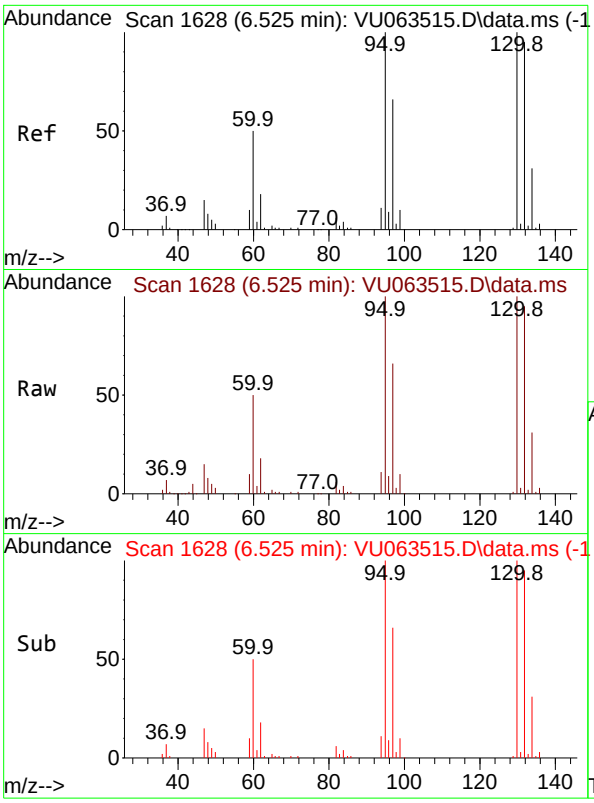


#36
1,2-Dichloroethane
Concen: 10.281 ug/l
RT: 5.782 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 62 Resp: 95989

Ion	Ratio	Lower	Upper
62	100		
98	8.0	6.4	9.6

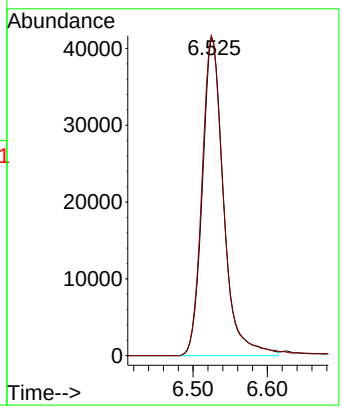




#37
Trichloroethene
Concen: 10.731 ug/l
RT: 6.525 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:130 Resp: 8226

Ion	Ratio	Lower	Upper
130	100		
95	100.4	80.3	120.5



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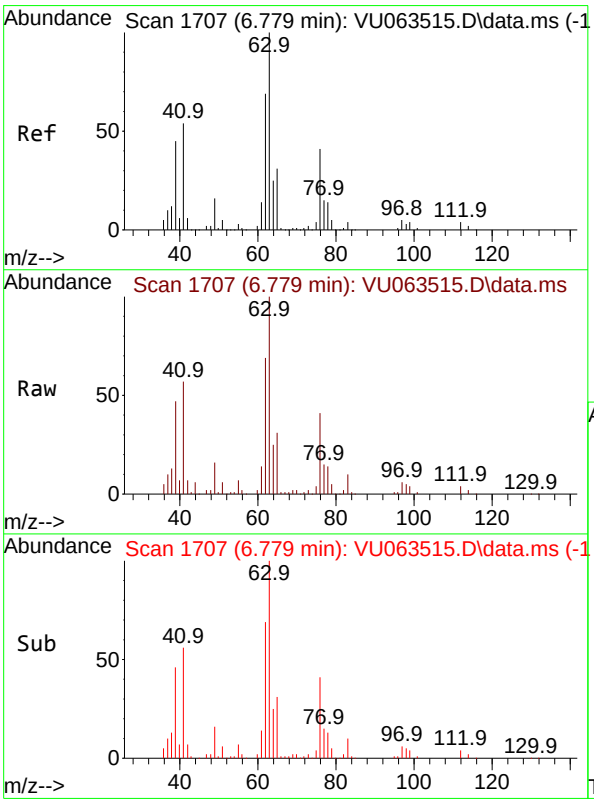
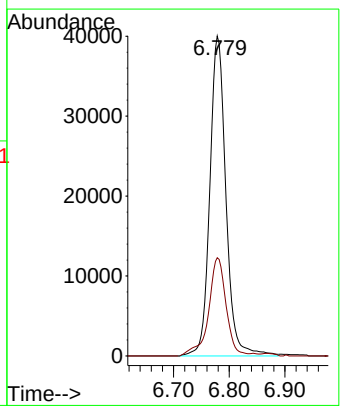
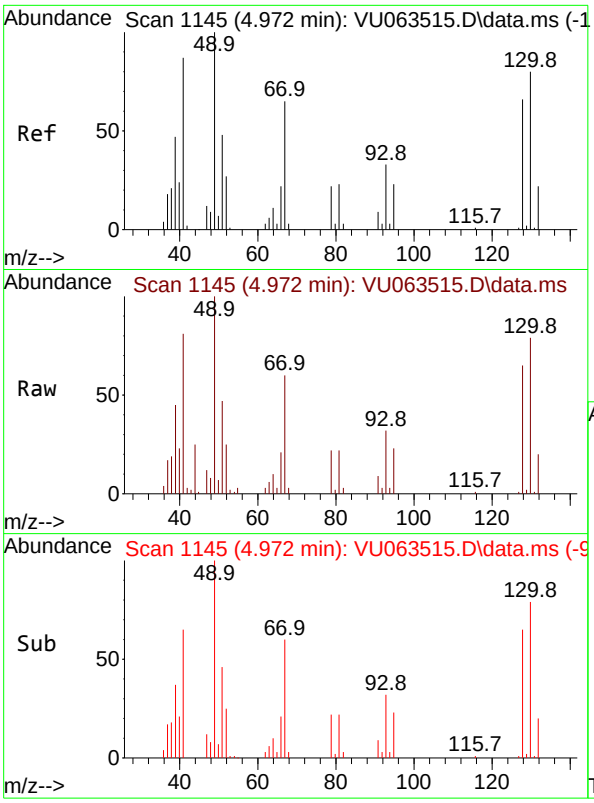


#38
1,2-Dichloropropane
Concen: 11.439 ug/l
RT: 6.779 min Scan# 1707
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 63 Resp: 80452

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.6	36.8

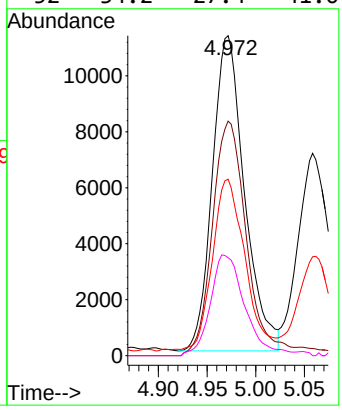




#39
Methacrylonitrile
Concen: 9.408 ug/l
RT: 4.972 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 41 Resp: 2585

Ion	Ratio	Lower	Upper
41	100		
67	78.4	62.7	94.1
39	53.9	43.1	64.7
52	34.2	27.4	41.0



Instrument :
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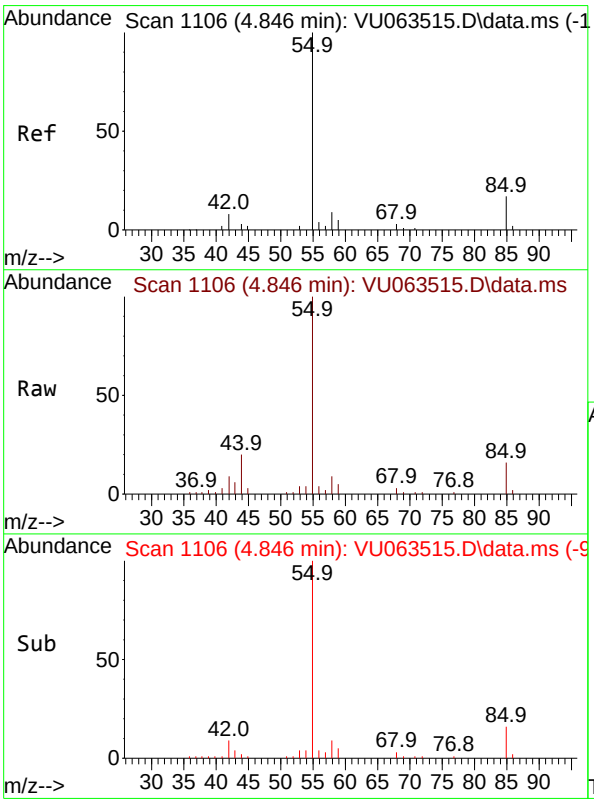
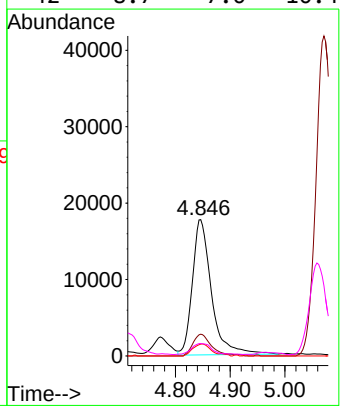
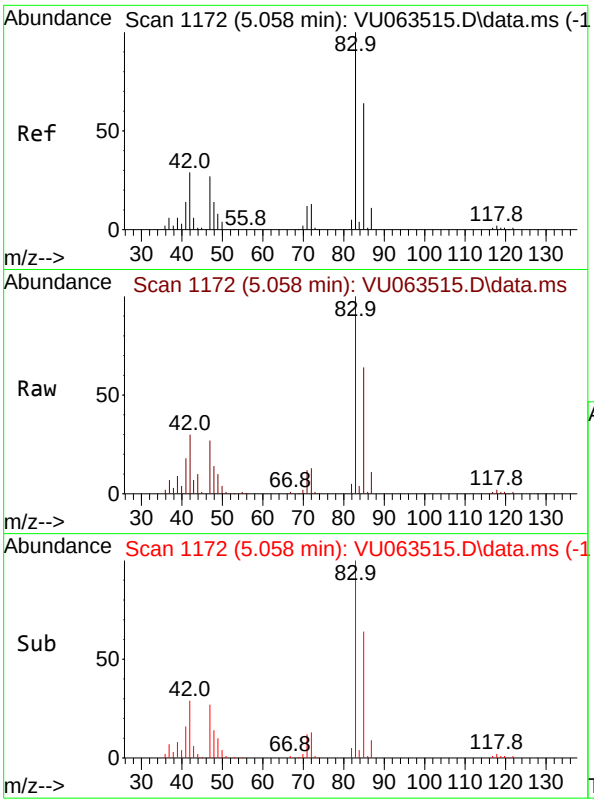


#40
Methyl acrylate
Concen: 10.557 ug/l
RT: 4.846 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 55 Resp: 42948

Ion	Ratio	Lower	Upper
55	100		
85	16.0	12.8	19.2
58	8.7	7.0	10.4
42	8.7	7.0	10.4

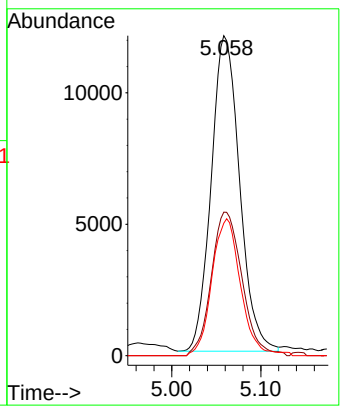




#41
Tetrahydrofuran
Concen: 18.218 ug/l
RT: 5.058 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 42 Resp: 2667

Ion	Ratio	Lower	Upper
42	100		
72	49.0	39.2	58.8
71	43.5	34.8	52.2



Instrument :
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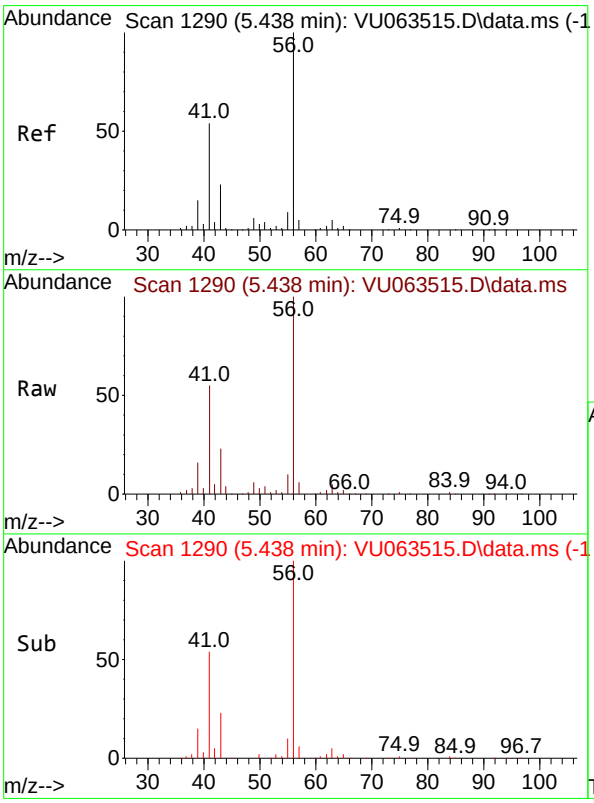
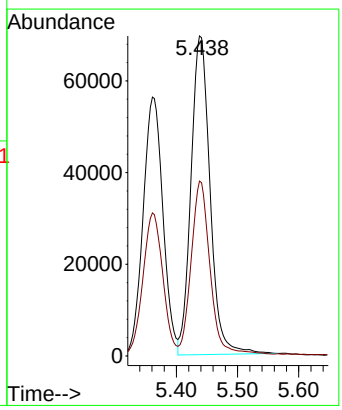
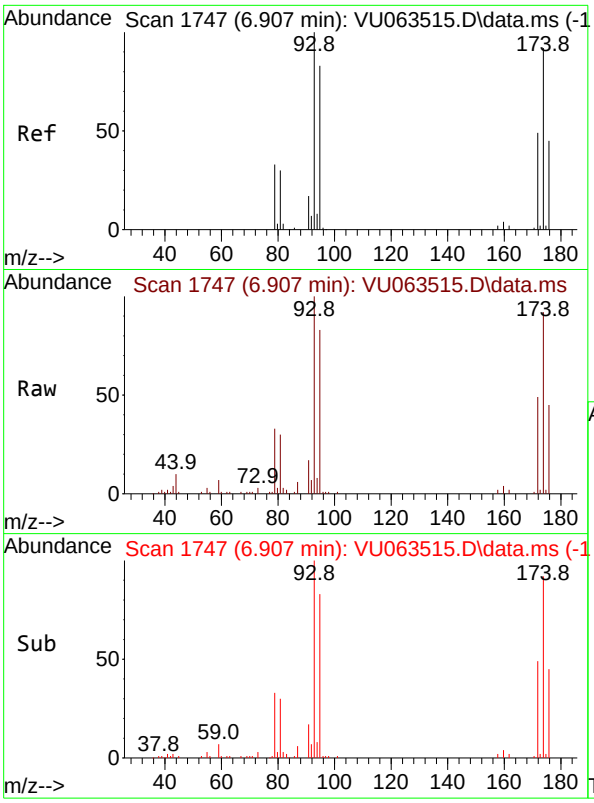


#42
1-Chlorobutane
Concen: 10.139 ug/l
RT: 5.438 min Scan# 1290
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 56 Resp: 150746

Ion	Ratio	Lower	Upper
56	100		
41	53.3	26.7	80.0

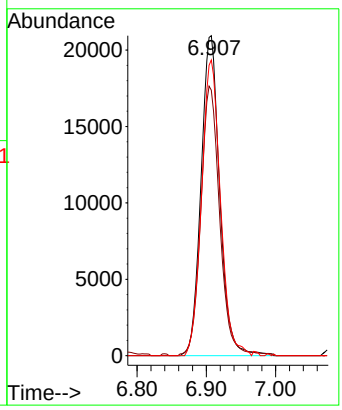




#43
Dibromomethane
Concen: 10.765 ug/l
RT: 6.907 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 93 Resp: 3921

Ion	Ratio	Lower	Upper
93	100		
95	84.9	67.9	101.9
174	93.2	74.6	111.8



Instrument :
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ClientSampleId :
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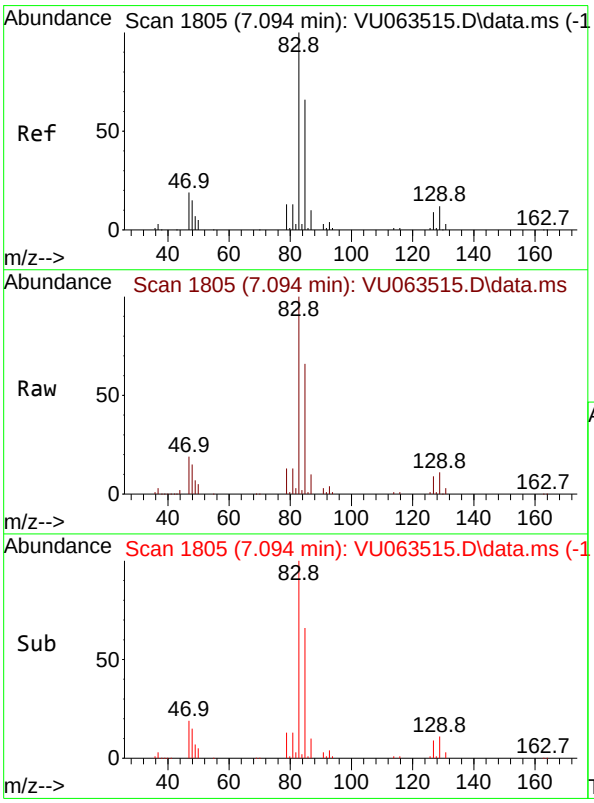
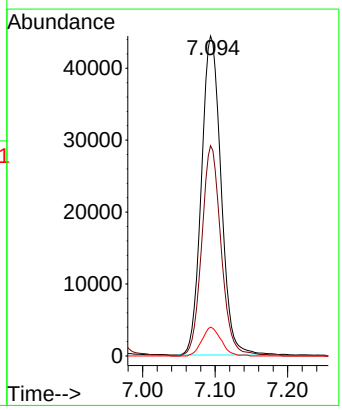
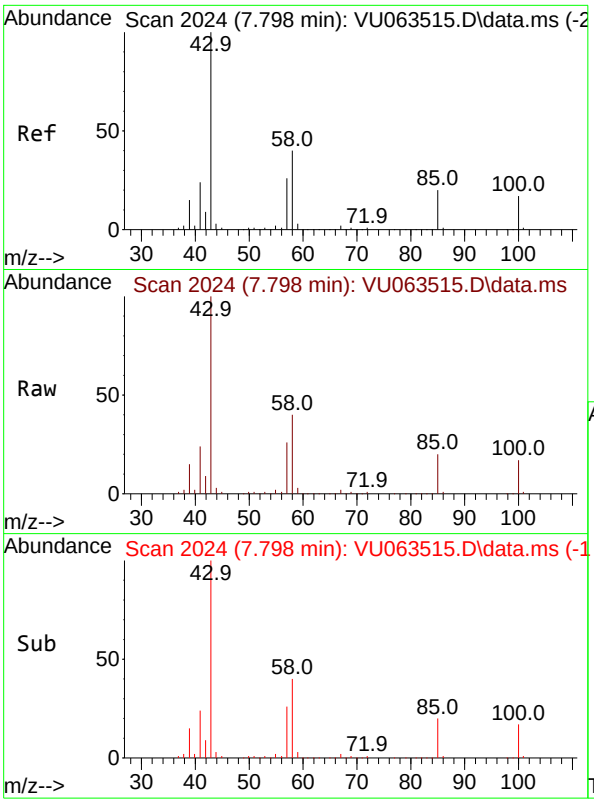


#44
Bromodichloromethane
Concen: 10.173 ug/l
RT: 7.094 min Scan# 1805
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 83 Resp: 83585

Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.7	79.1
127	10.1	8.1	12.1

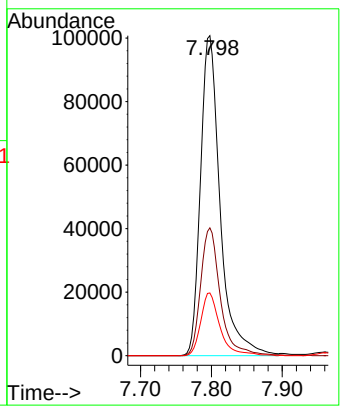




#45
4-Methyl-2-Pentanone
Concen: 51.766 ug/l
RT: 7.798 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 43 Resp: 19437

Ion	Ratio	Lower	Upper
43	100		
58	40.0	20.0	60.0
85	19.2	15.4	23.0



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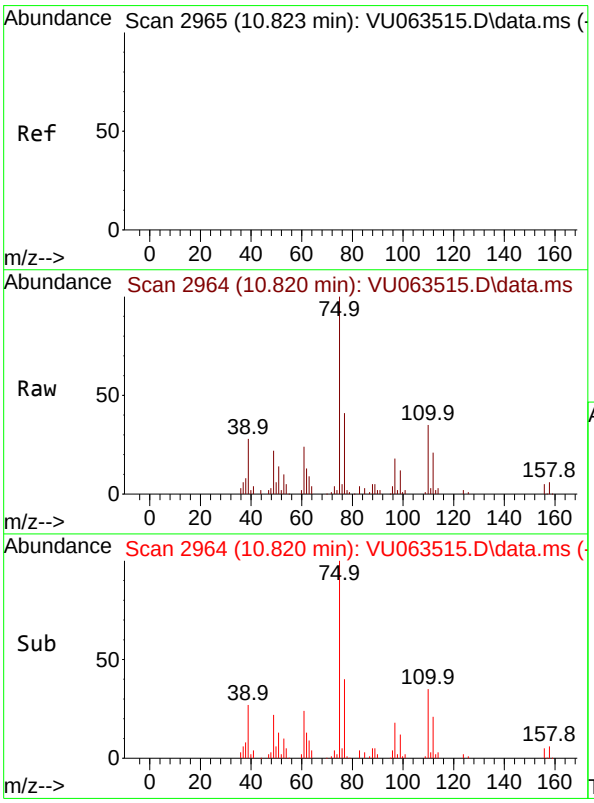
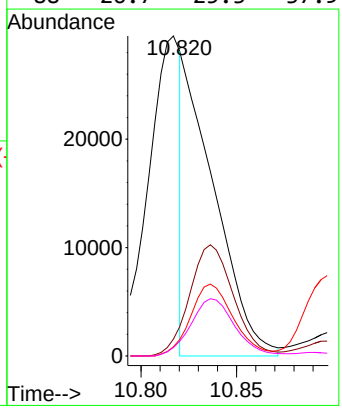
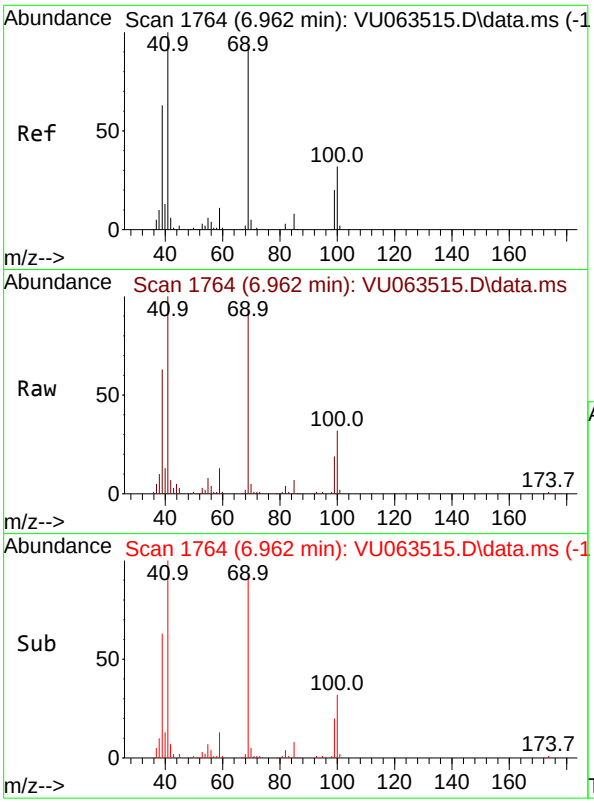


#46
t-1,4-Dichloro-2-butene
Concen: 24.076 ug/l m
RT: 10.820 min Scan# 2964
Delta R.T. -0.003 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 75 Resp: 32073

Ion	Ratio	Lower	Upper
75	100		
53	51.1	48.4	72.6
89	32.3	30.6	45.8
88	26.7	25.3	37.9

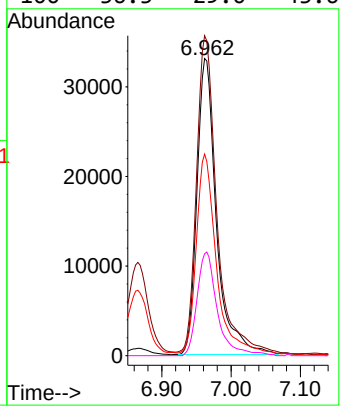




#47
Methyl methacrylate
Concen: 21.203 ug/l
RT: 6.962 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 69 Resp: 6487

Ion	Ratio	Lower	Upper
69	100		
41	112.0	0.0	224.0
39	69.1	55.3	82.9
100	36.3	29.0	43.6



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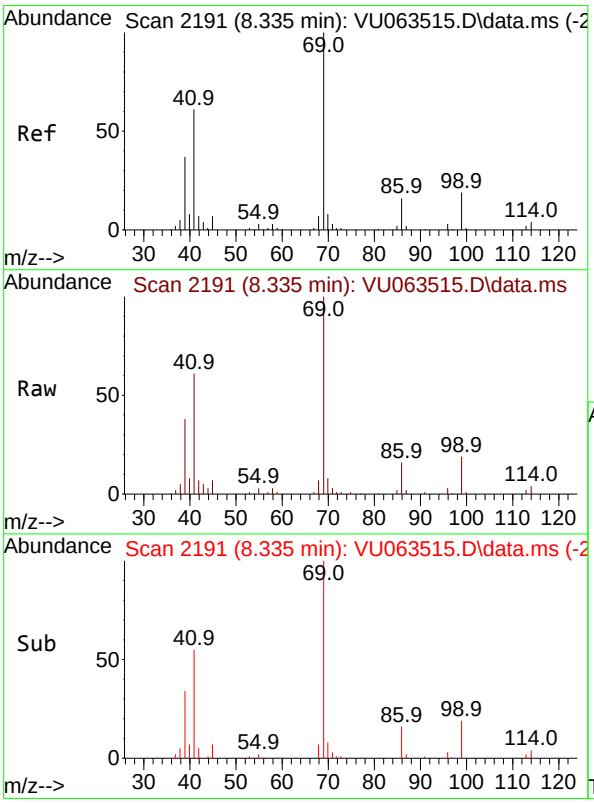
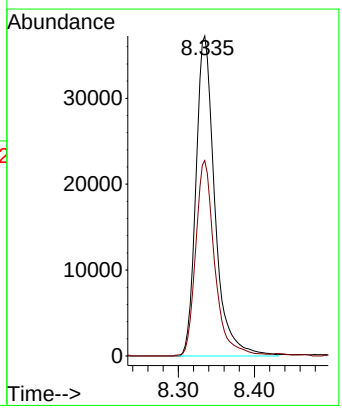
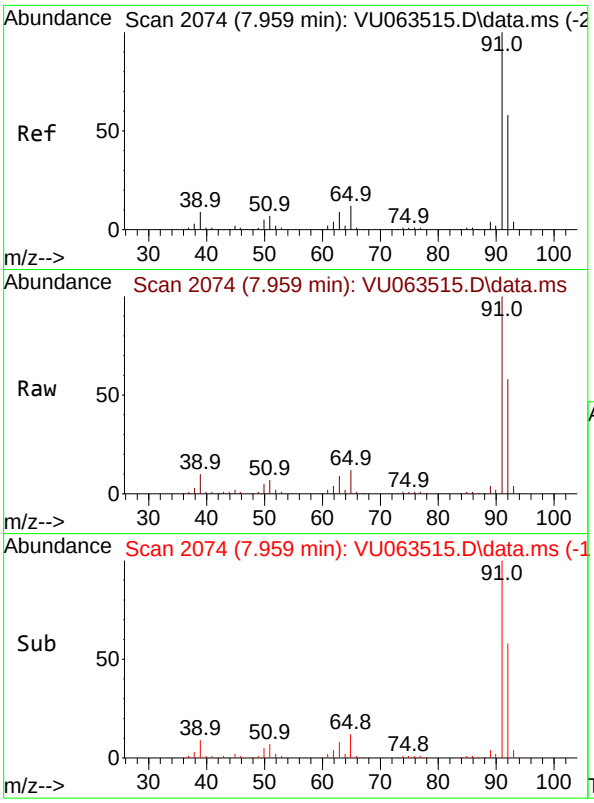


#48
Ethyl methacrylate
Concen: 11.020 ug/l
RT: 8.335 min Scan# 2191
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 69 Resp: 64347

Ion	Ratio	Lower	Upper
69	100		
41	61.6	30.8	92.4

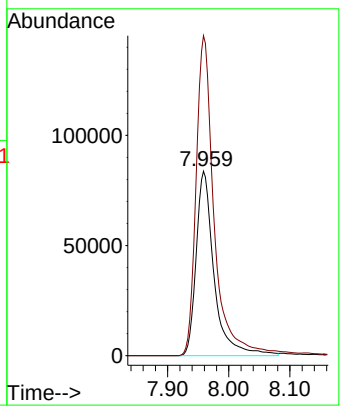




#49
Toluene
Concen: 10.432 ug/l
RT: 7.959 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 92 Resp: 17114

Ion	Ratio	Lower	Upper
92	100		
91	175.5	140.4	210.6



Instrument :
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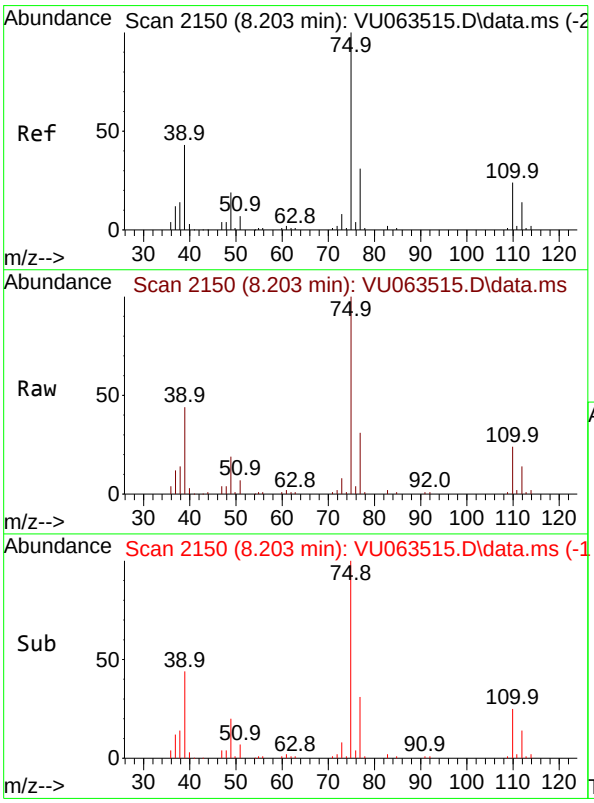
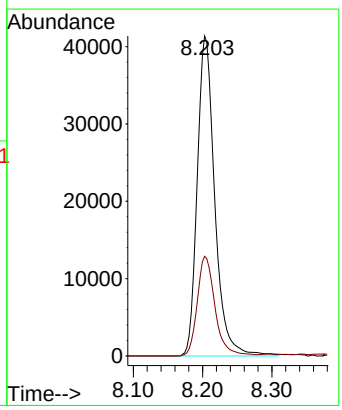
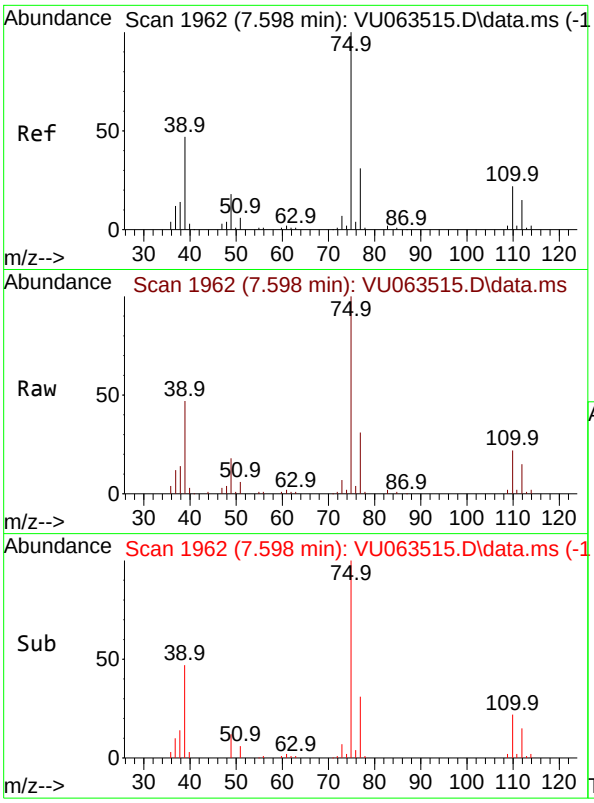


#50
t-1,3-Dichloropropene
Concen: 11.292 ug/l
RT: 8.203 min Scan# 2150
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 75 Resp: 72787

Ion	Ratio	Lower	Upper
75	100		
77	31.1	24.9	37.3

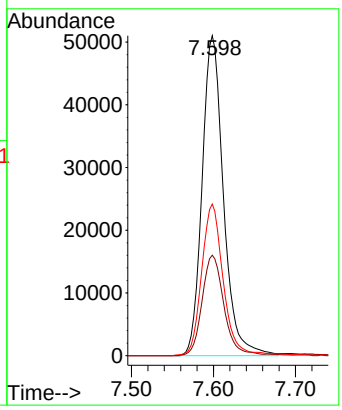




#51
cis-1,3-Dichloropropene
Concen: 10.668 ug/l
RT: 7.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 75 Resp: 9230

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.1	37.7
39	47.2	37.8	56.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

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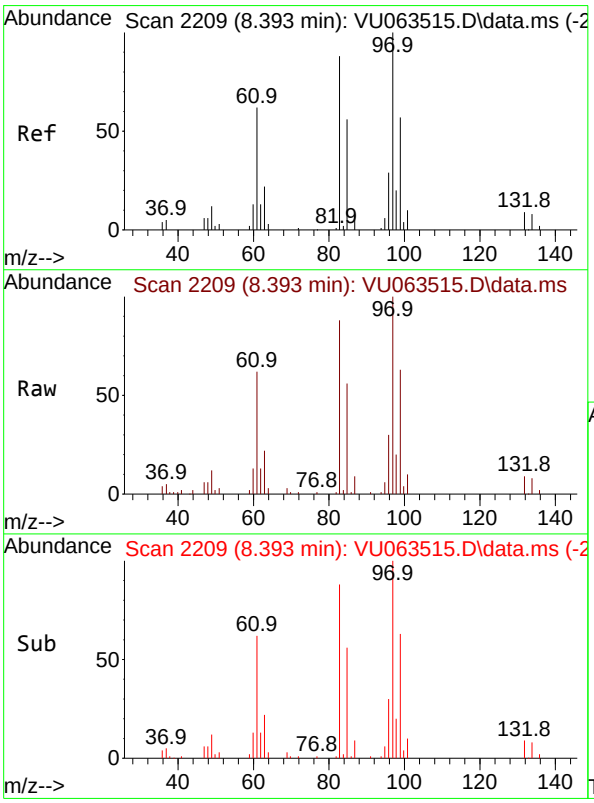
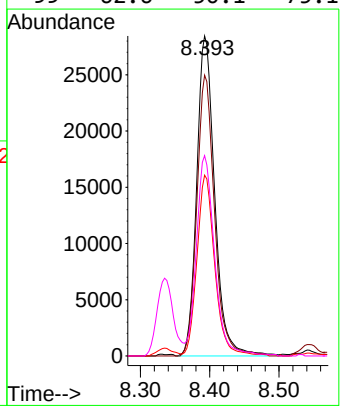
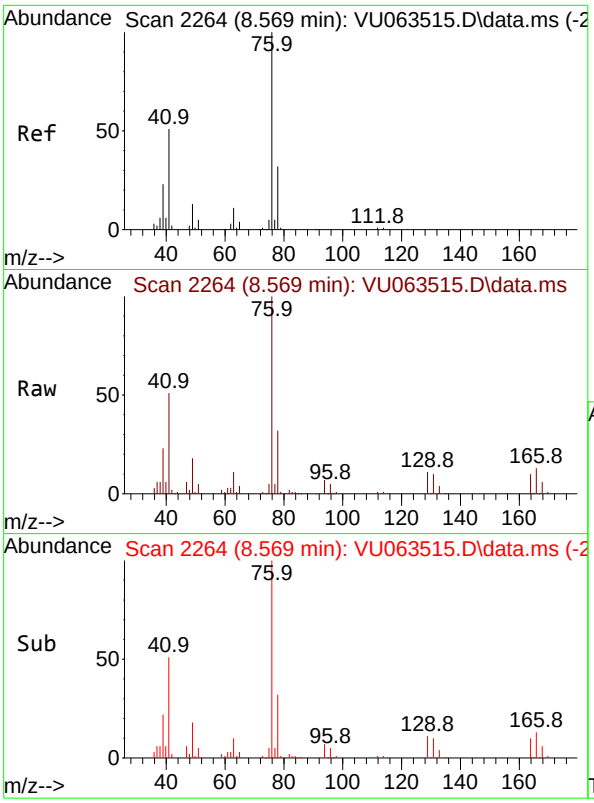


#52
1,1,2-Trichloroethane
Concen: 10.510 ug/l
RT: 8.393 min Scan# 2209
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 97 Resp: 51547

Ion	Ratio	Lower	Upper
97	100		
83	87.7	70.2	105.2
85	56.5	45.2	67.8
99	62.6	50.1	75.1

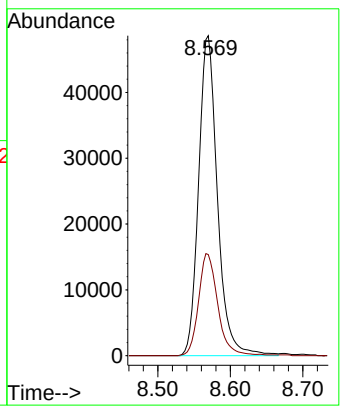




#53
1,3-Dichloropropane
Concen: 10.355 ug/l
RT: 8.569 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 76 Resp: 8768

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0



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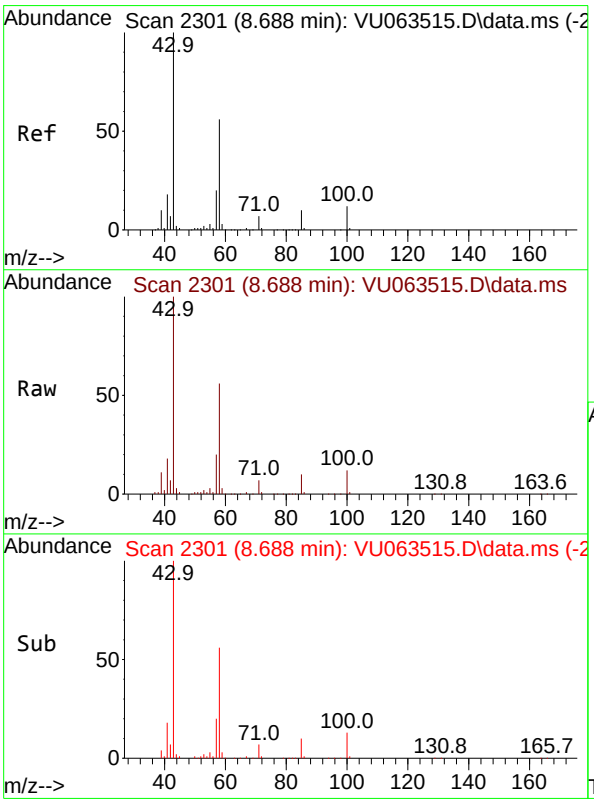
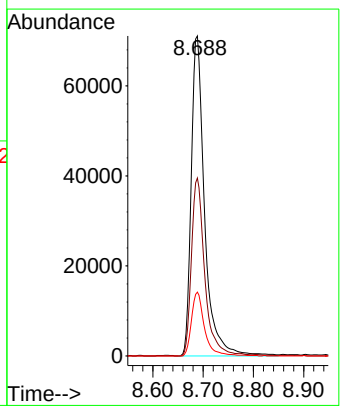
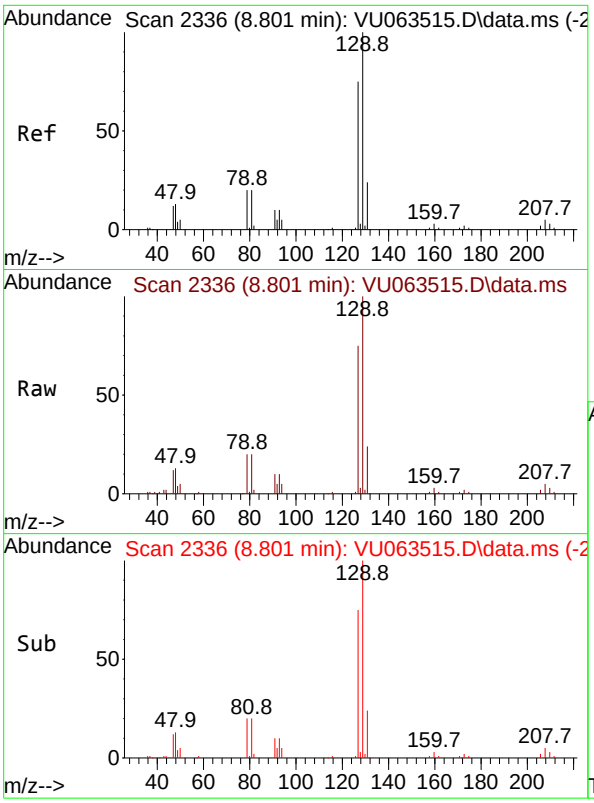


#54
2-Hexanone
Concen: 52.658 ug/l
RT: 8.688 min Scan# 2301
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 43 Resp: 131332

Ion	Ratio	Lower	Upper
43	100		
58	54.8	34.8	74.8
57	19.5	0.0	39.5

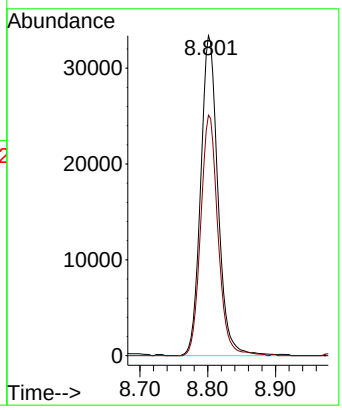




#55
Dibromochloromethane
Concen: 11.401 ug/l
RT: 8.801 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:129 Resp: 5909

Ion	Ratio	Lower	Upper
129	100		
127	75.1	60.1	90.1



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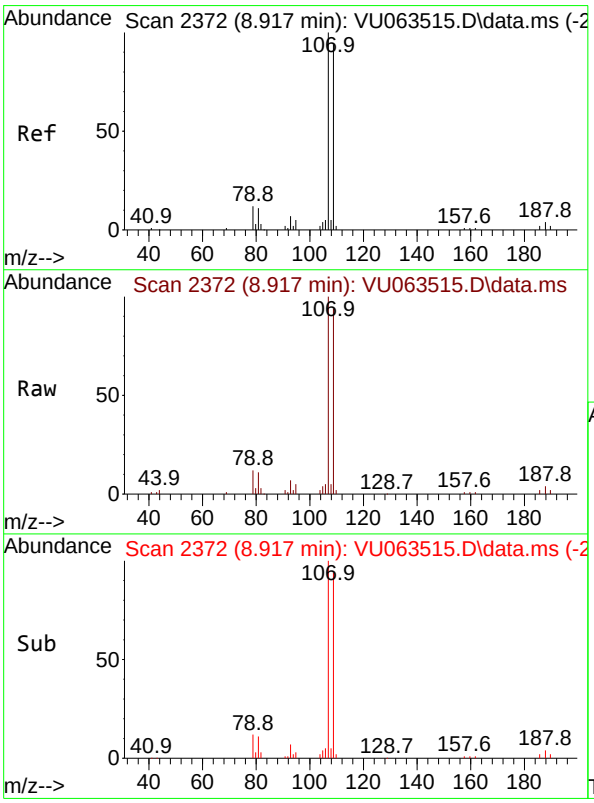
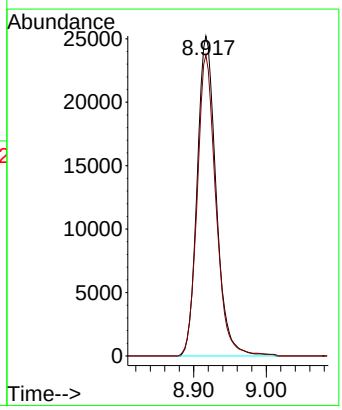
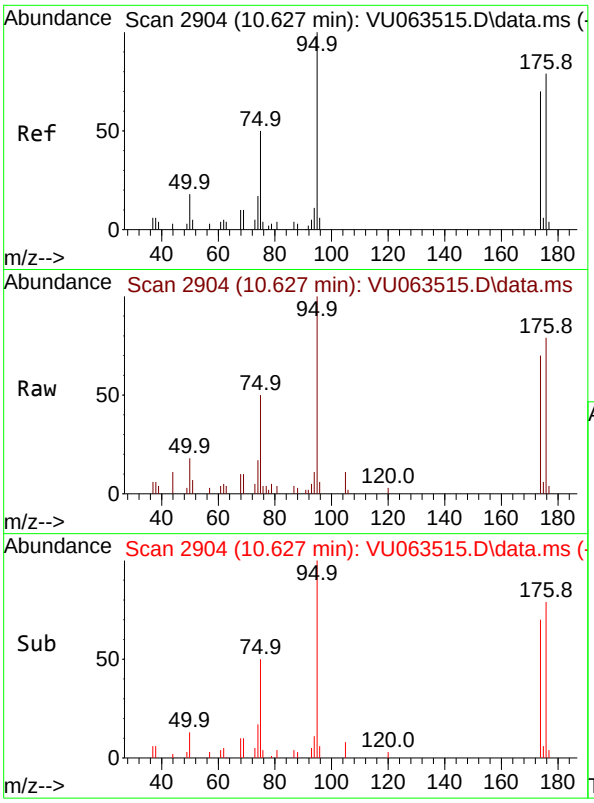


#56
1,2-Dibromoethane
Concen: 10.388 ug/l
RT: 8.917 min Scan# 2372
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:107 Resp: 45601

Ion	Ratio	Lower	Upper
107	100		
109	93.2	0.0	186.4

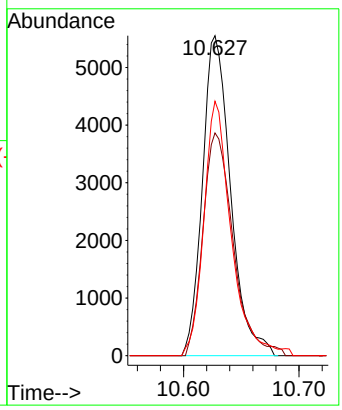




#57
4-Bromofluorobenzene
Concen: 0.975 ug/l
RT: 10.627 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 95 Resp: 941

Ion	Ratio	Lower	Upper
95	100		
174	74.8	59.8	89.8
176	77.3	61.8	92.8



Instrument :
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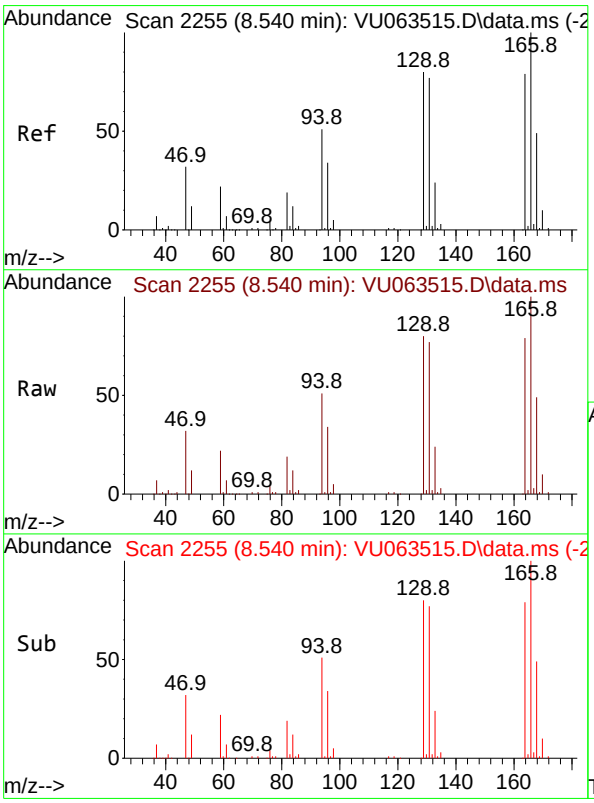
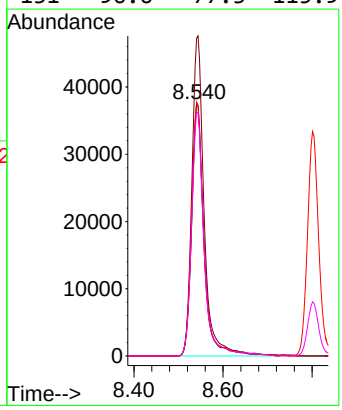
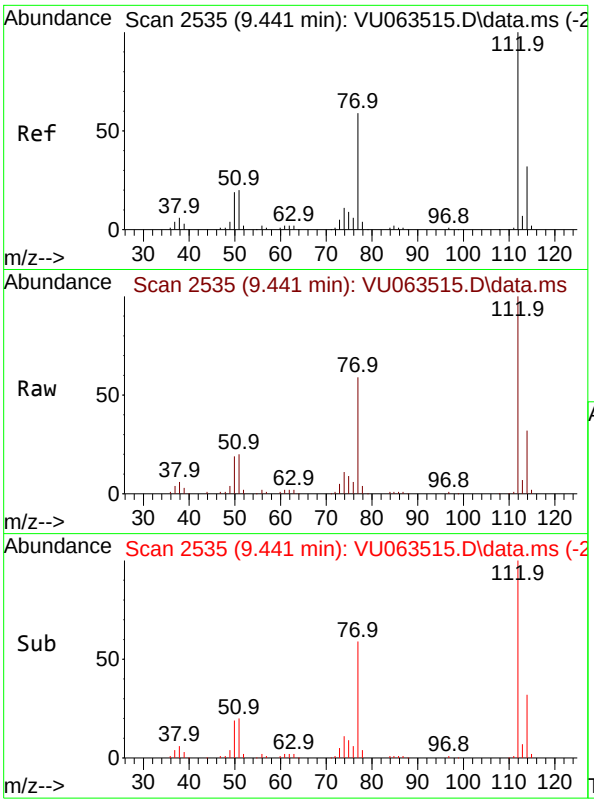


#58
Tetrachloroethene
Concen: 10.376 ug/l
RT: 8.540 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:164 Resp: 72806

Ion	Ratio	Lower	Upper
164	100		
166	125.9	100.7	151.1
129	100.7	80.6	120.8
131	96.6	77.3	115.9

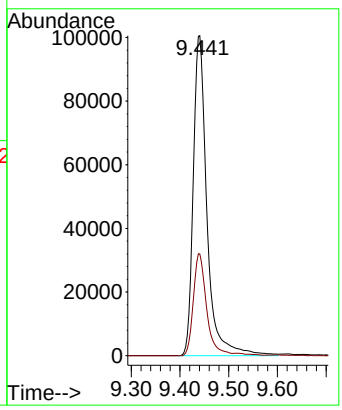




#59
Chlorobenzene
Concen: 10.443 ug/l
RT: 9.441 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:112 Resp: 19678

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.4	38.2



Instrument :
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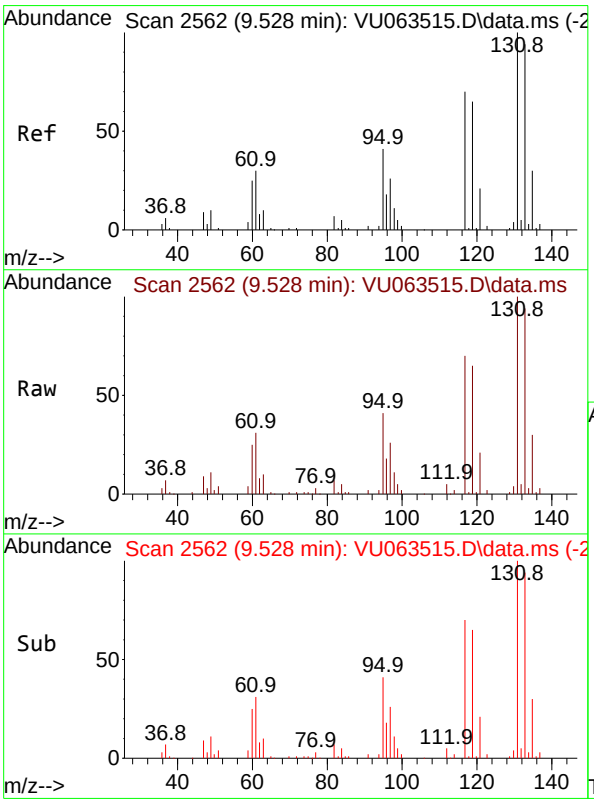
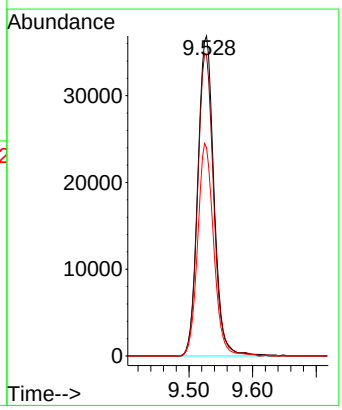
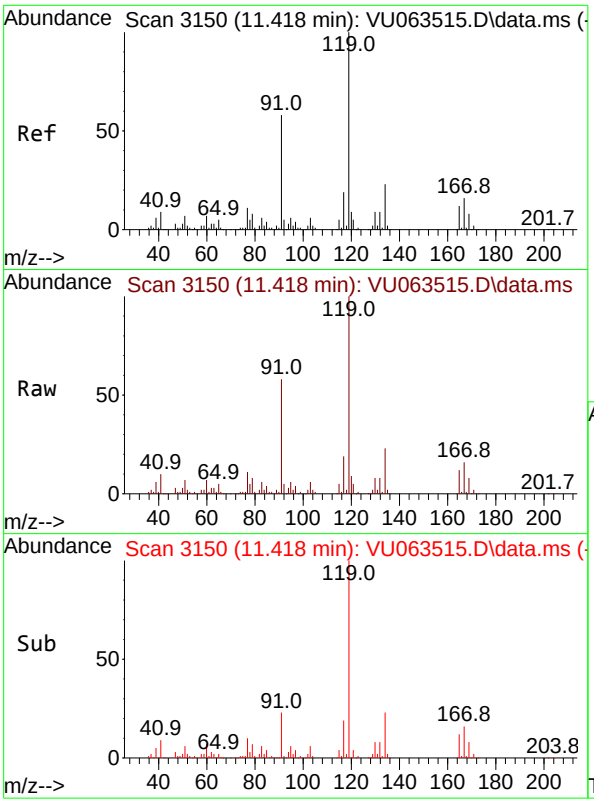


#60
1,1,1,2-Tetrachloroethane
Concen: 10.702 ug/l
RT: 9.528 min Scan# 2562
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:131 Resp: 64850

Ion	Ratio	Lower	Upper
131	100		
133	93.4	74.7	112.1
119	66.2	53.0	79.4





#61
Pentachloroethane
Concen: 11.097 ug/l
RT: 11.418 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:117 Resp: 4751

Ion	Ratio	Lower	Upper
117	100		
167	81.3	65.0	97.6

Instrument :
MSVOA_U
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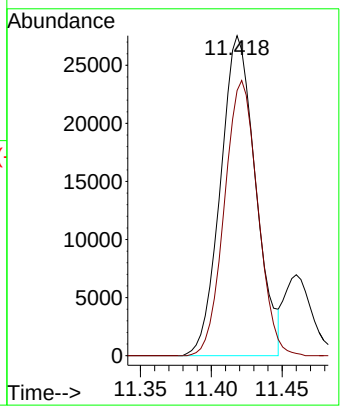
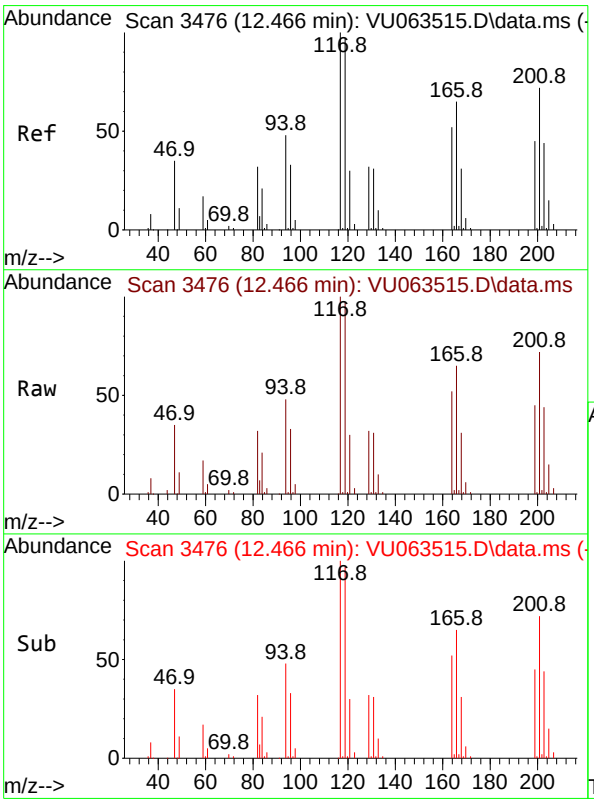
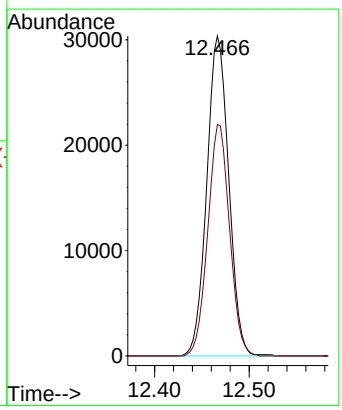


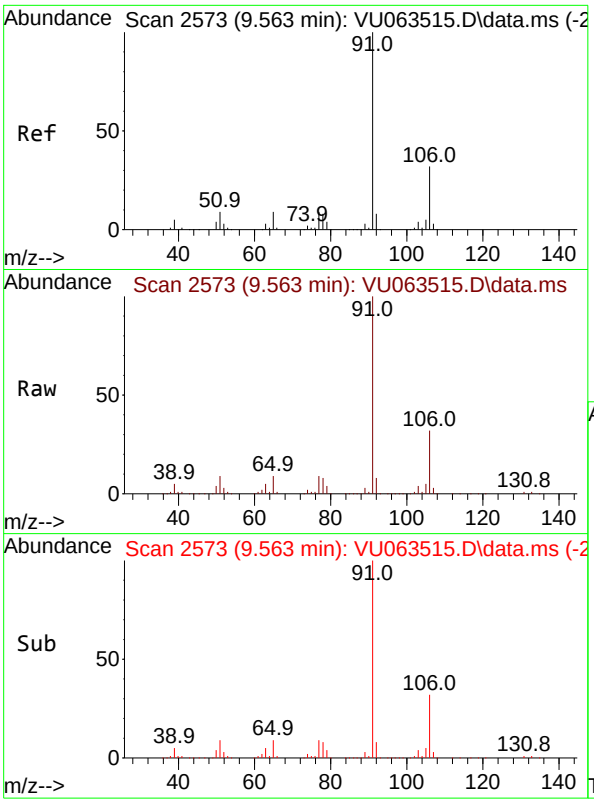


#62
Hexachloroethane
Concen: 11.561 ug/l
RT: 12.466 min Scan# 3476
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:117 Resp: 49020

Ion	Ratio	Lower	Upper
117	100		
201	71.7	57.4	86.0

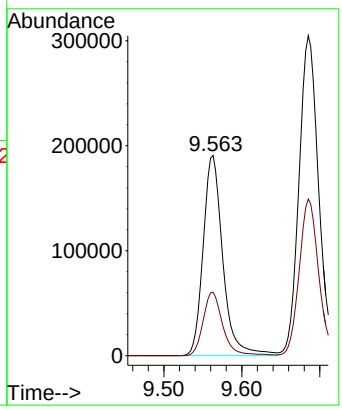




#63
Ethyl Benzene
Concen: 10.340 ug/l
RT: 9.563 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 91 Resp: 33526

Ion	Ratio	Lower	Upper
91	100		
106	31.7	25.4	38.0



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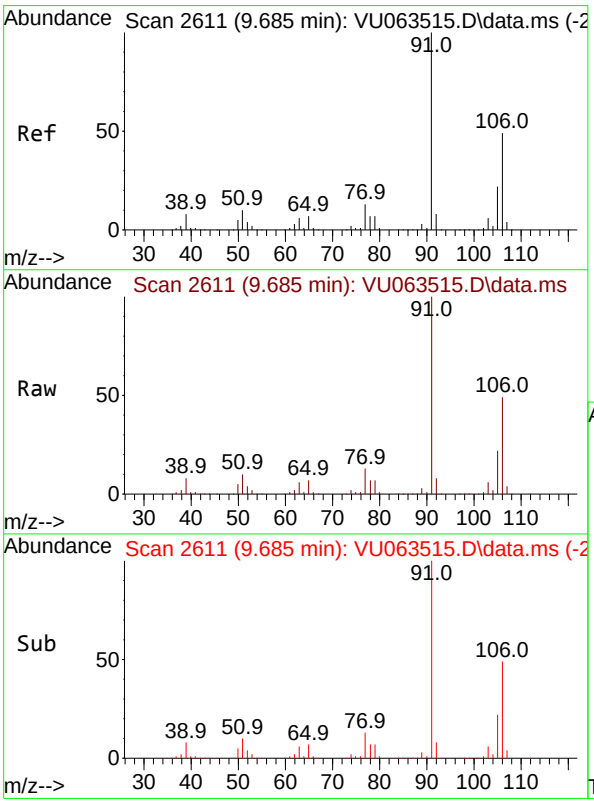
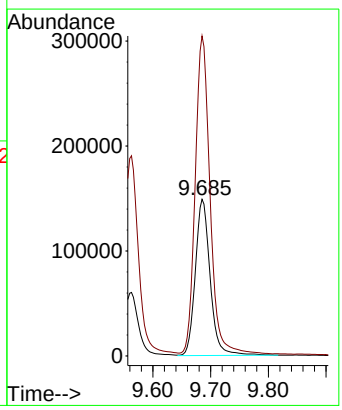
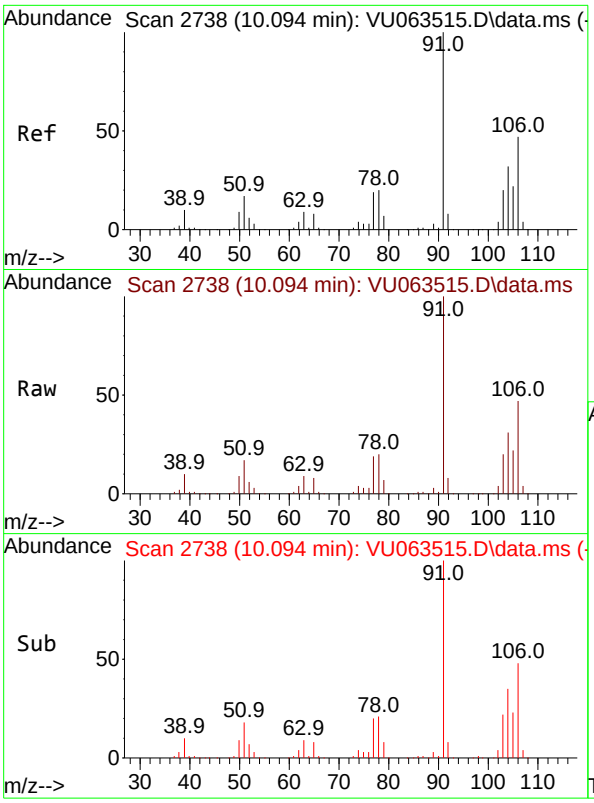


#64
m/p-Xylenes
Concen: 21.007 ug/l
RT: 9.685 min Scan# 2611
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:106 Resp: 264769

Ion	Ratio	Lower	Upper
106	100		
91	204.5	163.6	245.4

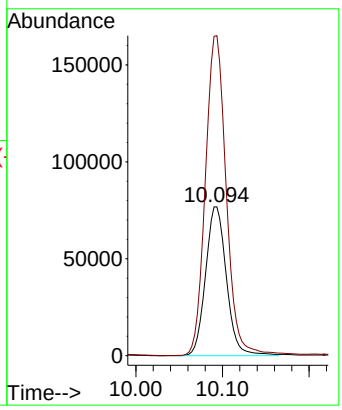




#65
o-Xylene
Concen: 10.621 ug/l
RT: 10.094 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:106 Resp: 12863

Ion	Ratio	Lower	Upper
106	100		
91	216.3	108.1	324.4



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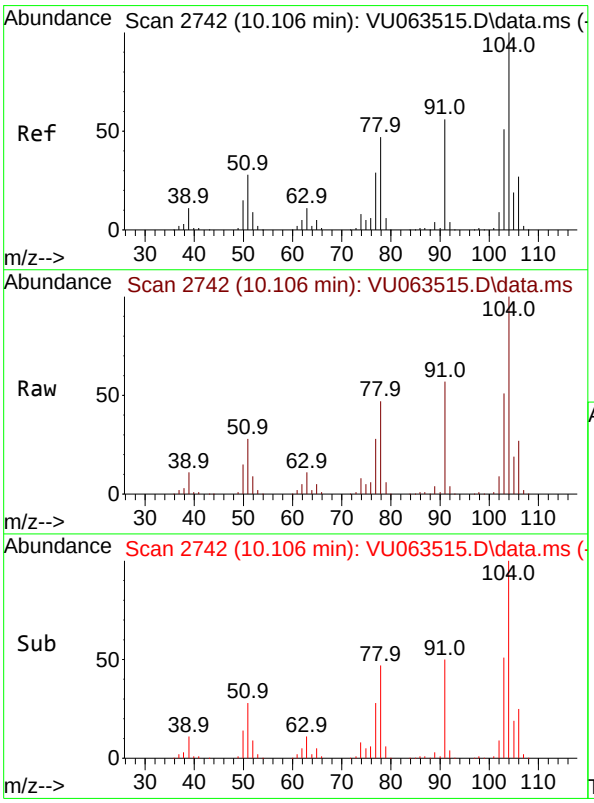
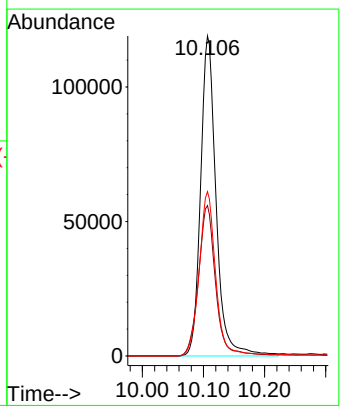
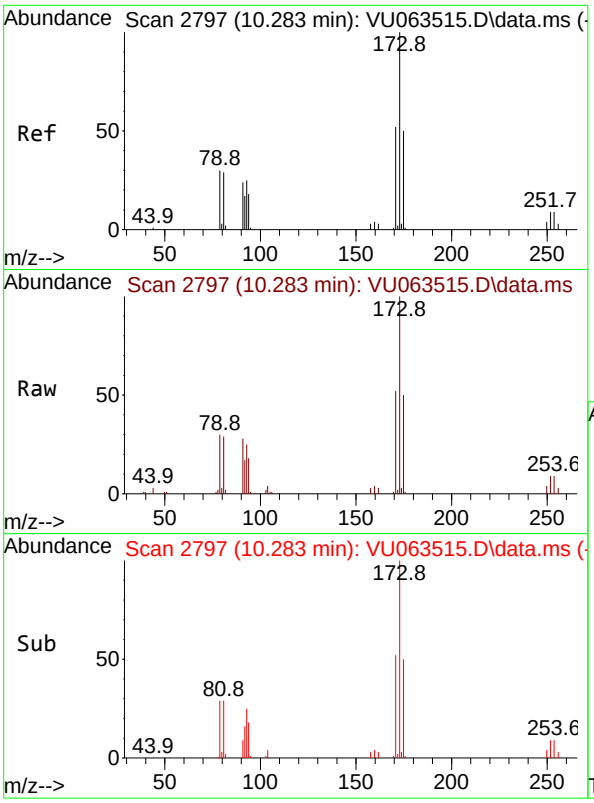


#66
Styrene
Concen: 10.873 ug/l
RT: 10.106 min Scan# 2742
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:104 Resp: 209876

Ion	Ratio	Lower	Upper
104	100		
78	51.6	41.3	61.9
103	54.5	43.6	65.4

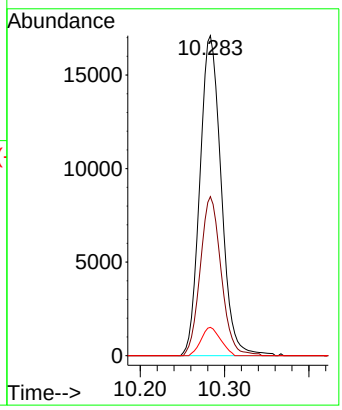




#67
Bromoform
Concen: 11.325 ug/l
RT: 10.283 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:173 Resp: 3014

Ion	Ratio	Lower	Upper
173	100		
175	48.7	39.0	58.4
254	8.1	6.5	9.7



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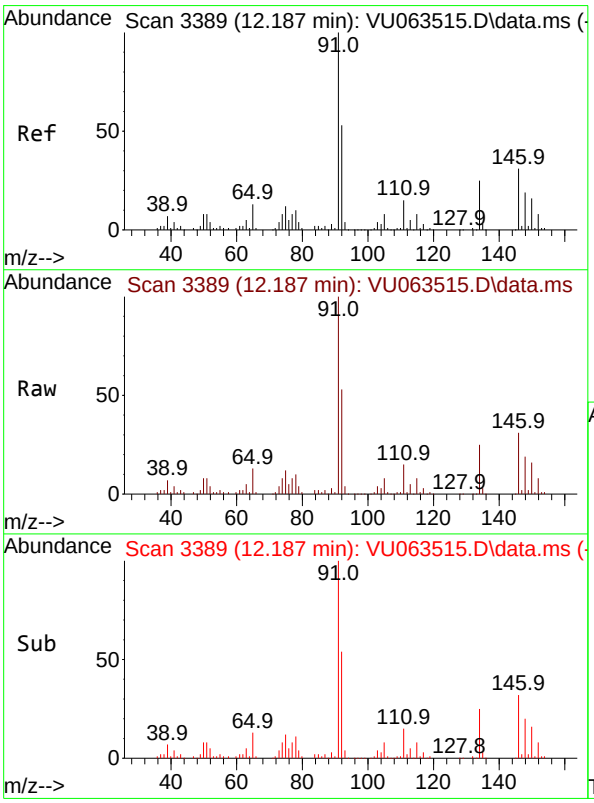
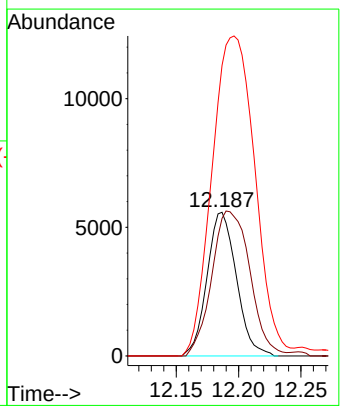
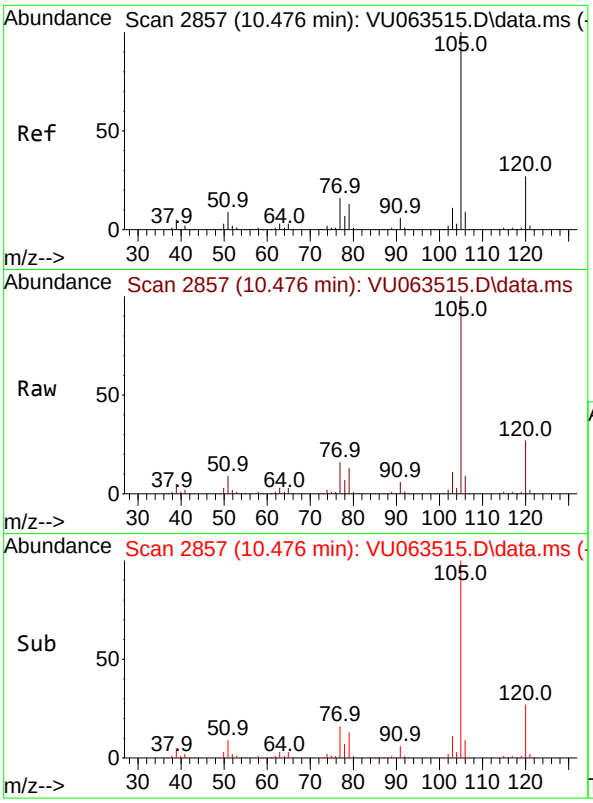


#68
1,2-Dichlorobenzene-d4
Concen: 1.024 ug/l
RT: 12.187 min Scan# 3389
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:152 Resp: 9149

Ion	Ratio	Lower	Upper
152	100		
115	131.1	0.0	262.2
150	325.6	0.0	651.2





#69
Isopropylbenzene
Concen: 10.718 ug/l
RT: 10.476 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:105 Resp: 31381

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5

Instrument :
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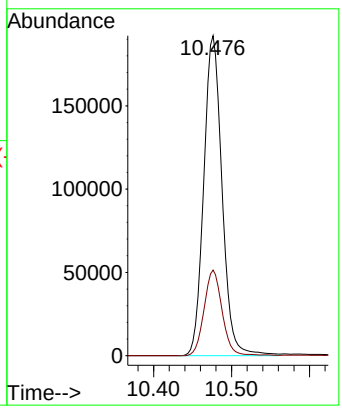
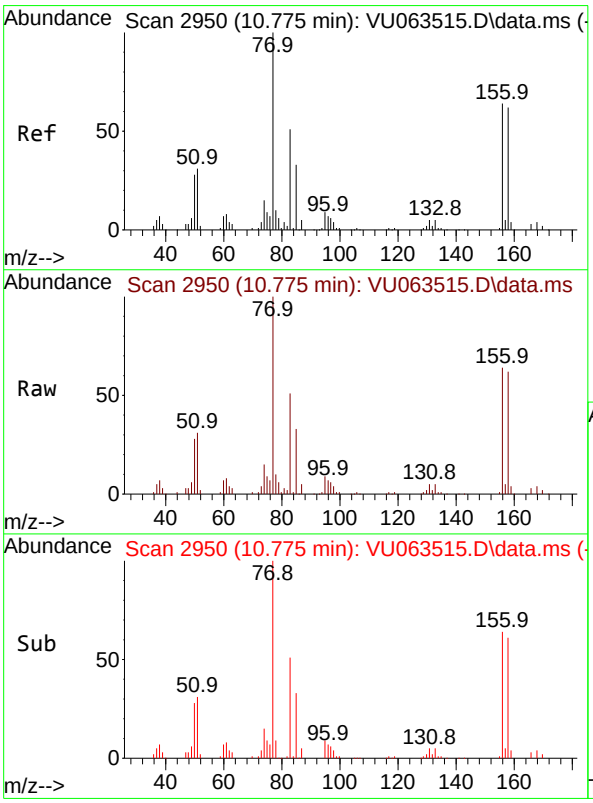
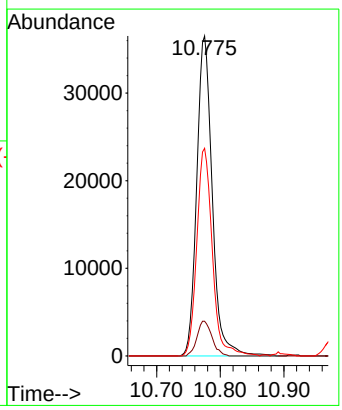


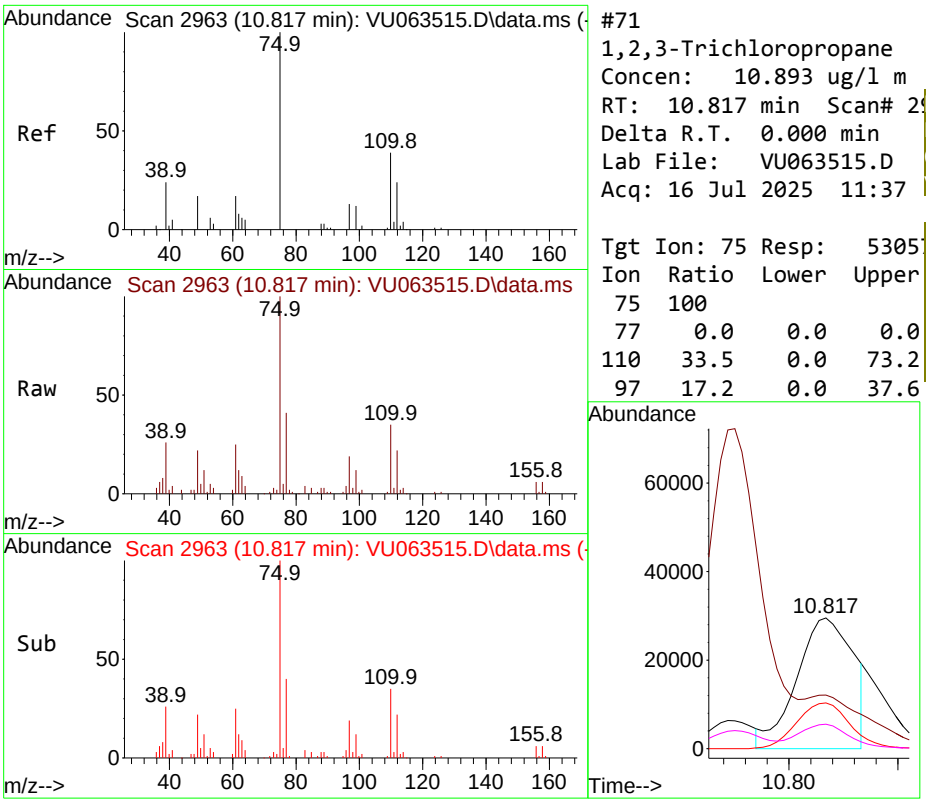


#70
1,1,2,2-Tetrachloroethane
Concen: 10.373 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 83 Resp: 61909

Ion	Ratio	Lower	Upper
83	100		
131	10.5	8.4	12.6
85	64.9	51.9	77.9





#71
1,2,3-Trichloropropane
Concen: 10.893 ug/l m
RT: 10.817 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 75 Resp: 5305

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	33.5	0.0	73.2
97	17.2	0.0	37.6

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

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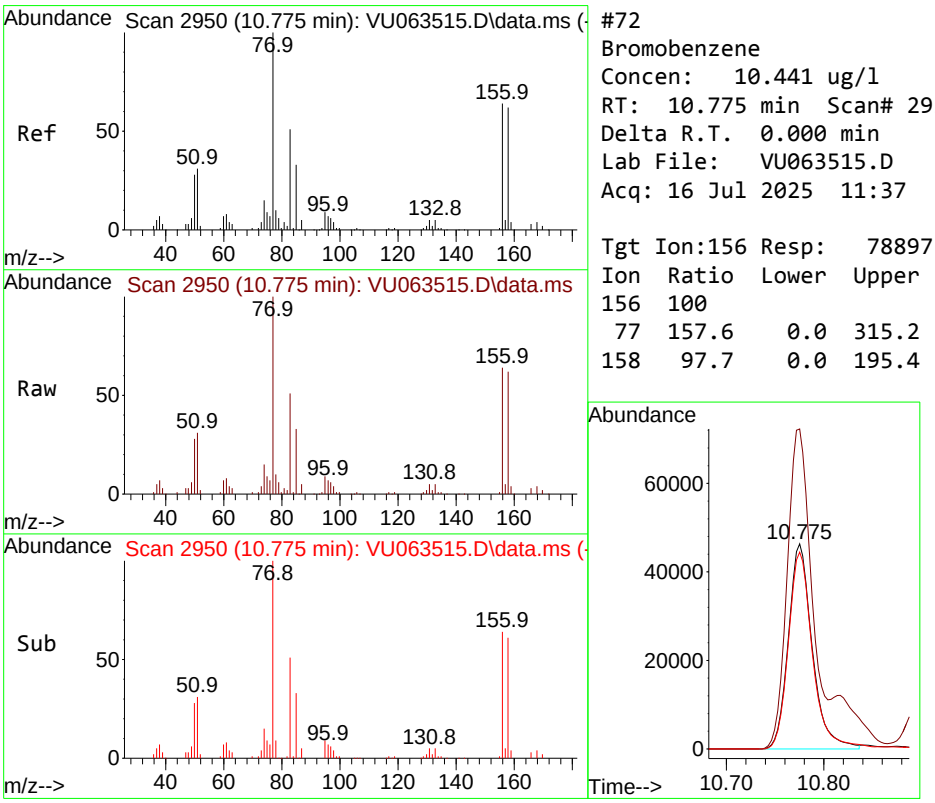
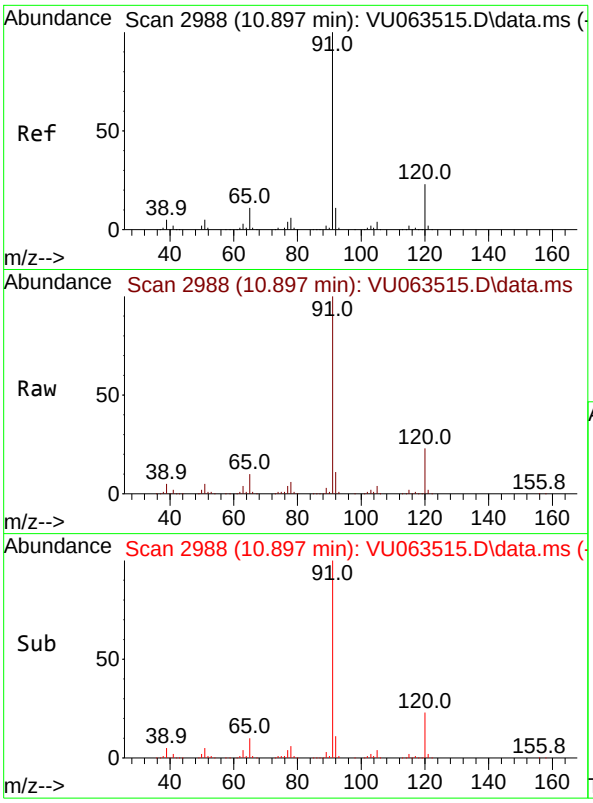


#72
Bromobenzene
Concen: 10.441 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:156 Resp: 78897

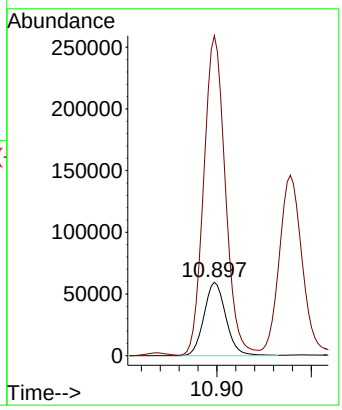
Ion	Ratio	Lower	Upper
156	100		
77	157.6	0.0	315.2
158	97.7	0.0	195.4



#73
n-propylbenzene
Concen: 10.853 ug/l
RT: 10.897 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:120 Resp: 9565

Ion	Ratio	Lower	Upper
120	100		
91	428.9	343.1	514.7



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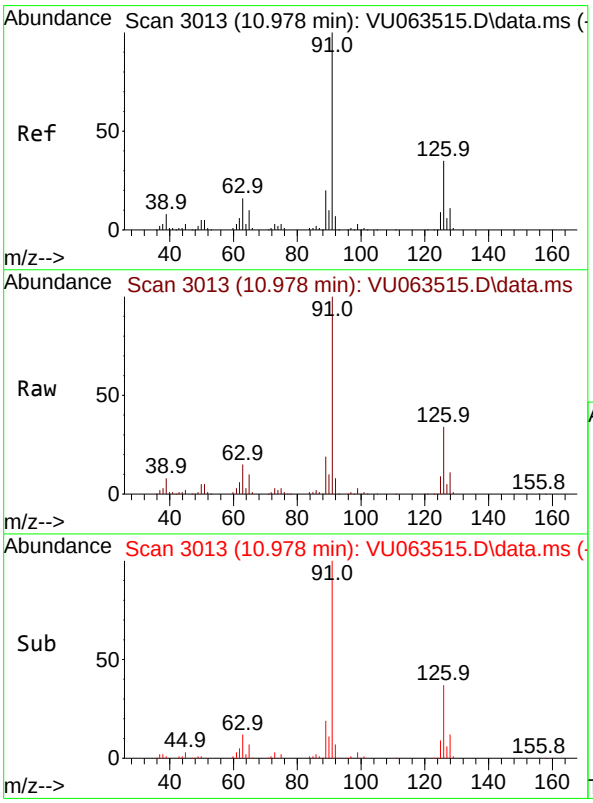
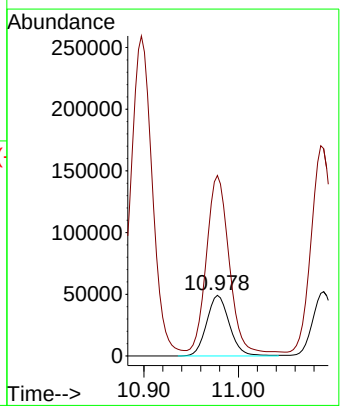
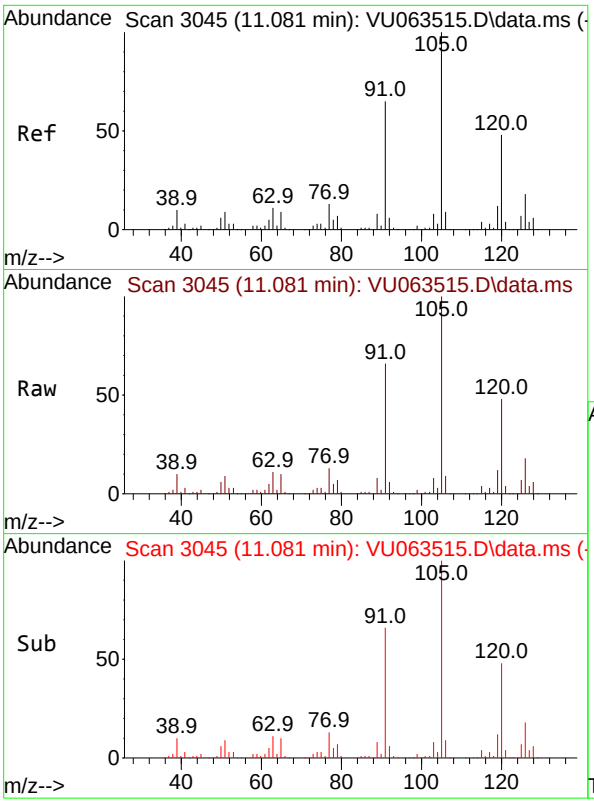


#74
2-Chlorotoluene
Concen: 10.540 ug/l
RT: 10.978 min Scan# 3013
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:126 Resp: 82104

Ion	Ratio	Lower	Upper
126	100		
91	303.0	0.0	606.0

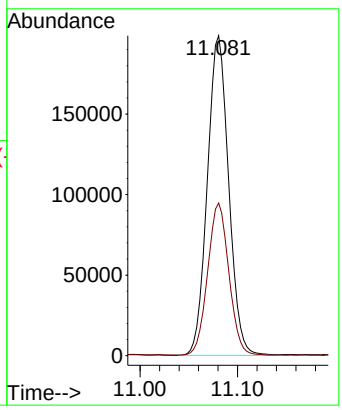




#75
1,3,5-Trimethylbenzene
Concen: 10.778 ug/l
RT: 11.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:105 Resp: 30146

Ion	Ratio	Lower	Upper
105	100		
120	47.3	37.8	56.8



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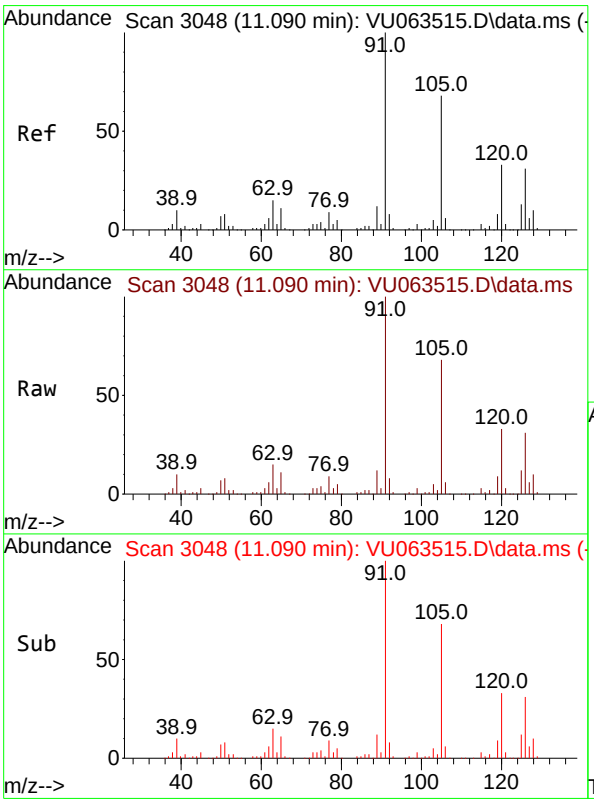
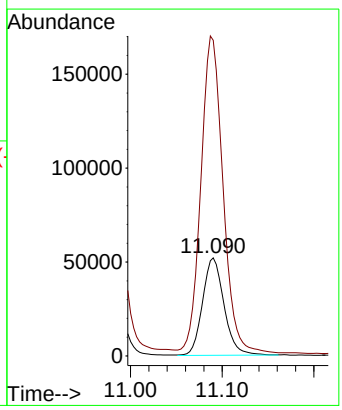
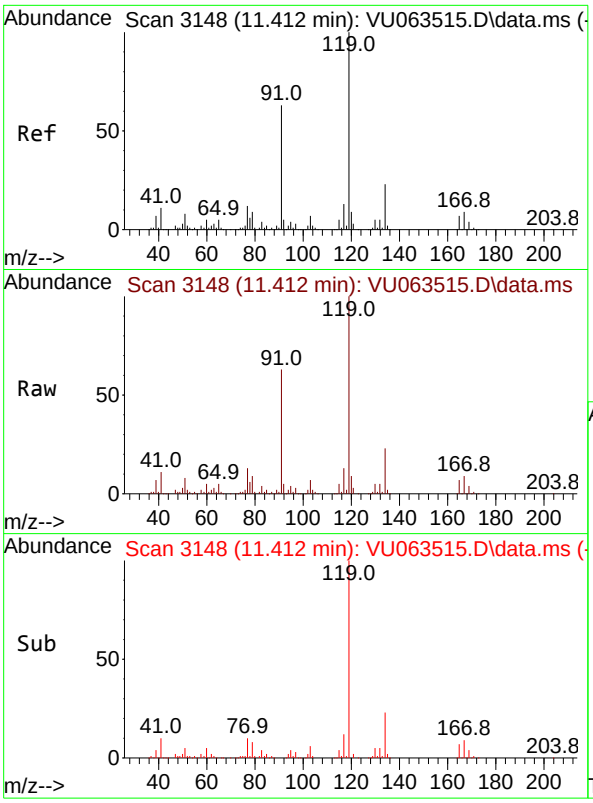


#76
4-Chlorotoluene
Concen: 10.636 ug/l
RT: 11.090 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:126 Resp: 84140

Ion	Ratio	Lower	Upper
126	100		
91	341.1	0.0	682.2

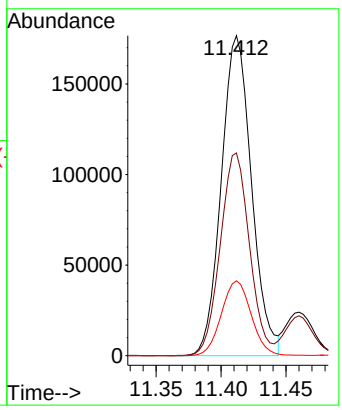




#77
tert-Butylbenzene
Concen: 10.714 ug/l
RT: 11.412 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:119 Resp: 28640

Ion	Ratio	Lower	Upper
119	100		
91	61.4	30.7	92.1
134	23.1	18.5	27.7



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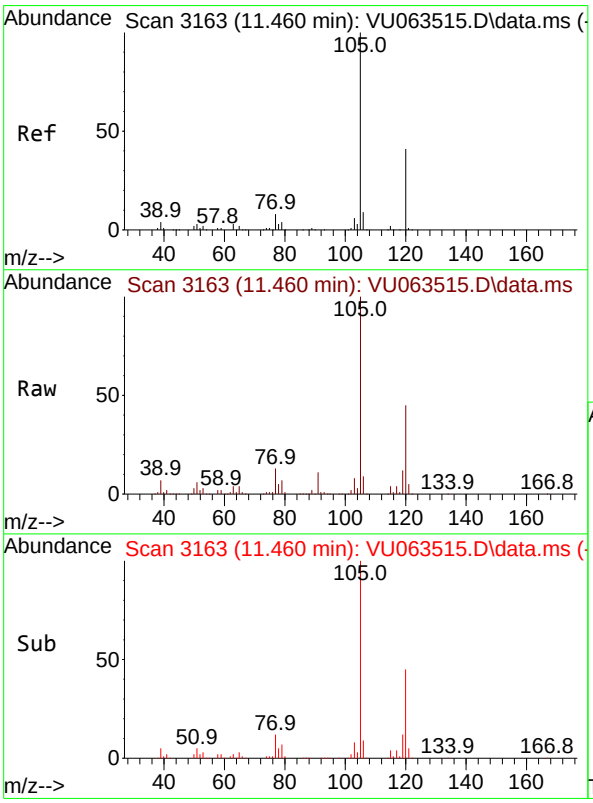
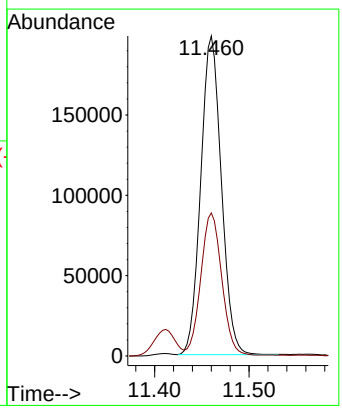
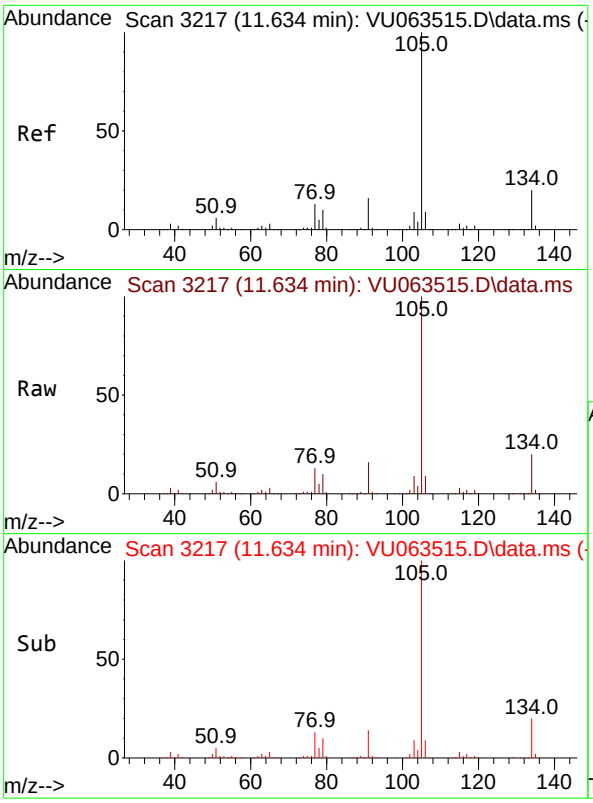


#78
1,2,4-Trimethylbenzene
Concen: 10.824 ug/l
RT: 11.460 min Scan# 3163
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:105 Resp: 300364

Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.7	68.0

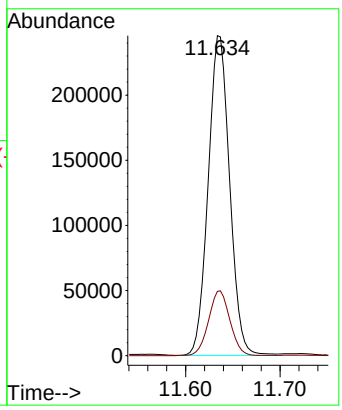




#79
sec-Butylbenzene
Concen: 10.724 ug/l
RT: 11.634 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:105 Resp: 38657

Ion	Ratio	Lower	Upper
105	100		
134	20.3	16.2	24.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

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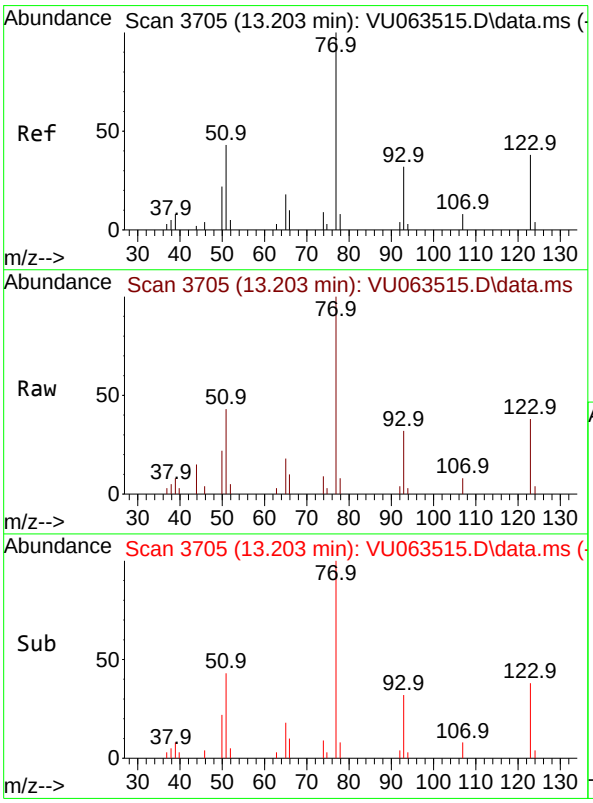
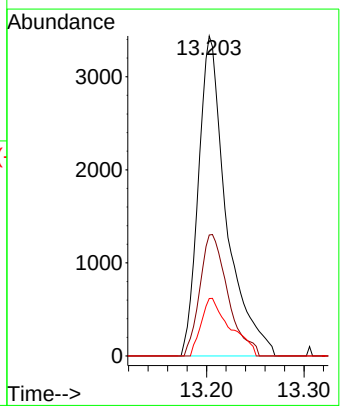
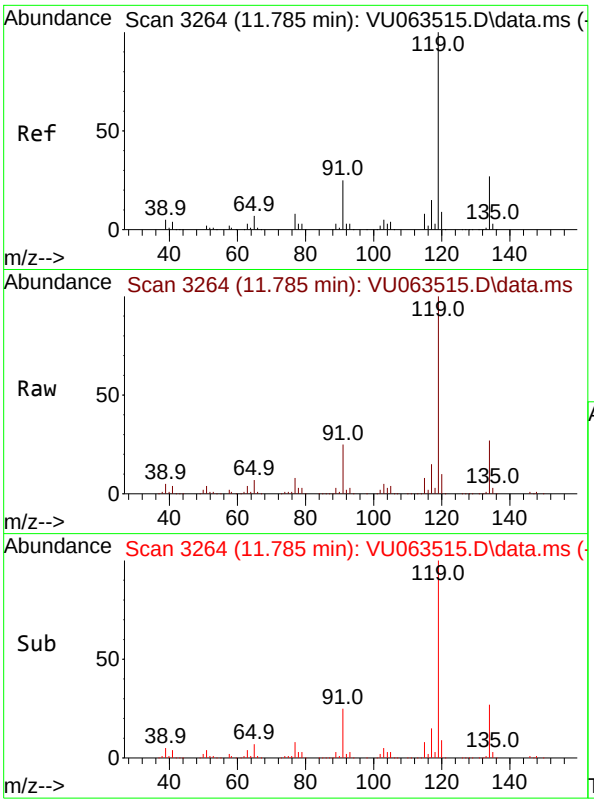


#80
Nitrobenzene
Concen: 50.800 ug/l
RT: 13.203 min Scan# 3705
Delta R.T. -0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 77 Resp: 6826

Ion	Ratio	Lower	Upper
77	100		
123	38.3	16.9	59.7
65	18.7	16.5	20.9

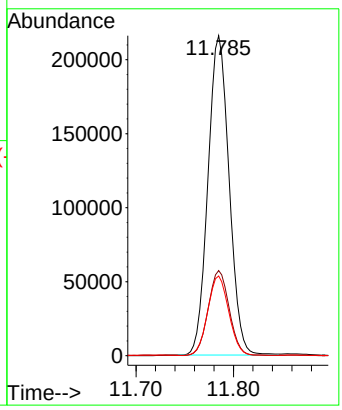




#81
p-Isopropyltoluene
Concen: 10.808 ug/l
RT: 11.785 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:119 Resp: 32521

Ion	Ratio	Lower	Upper
119	100		
134	26.4	21.1	31.7
91	24.8	19.8	29.8



Instrument :
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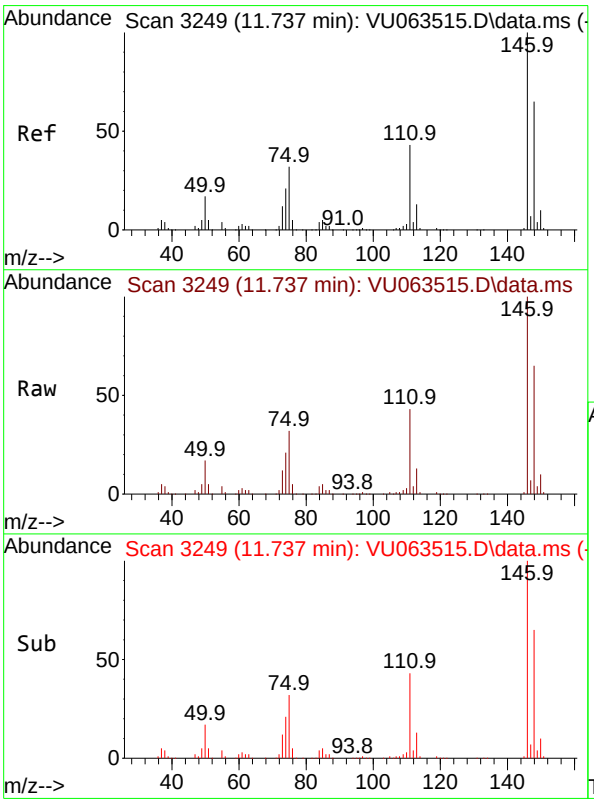
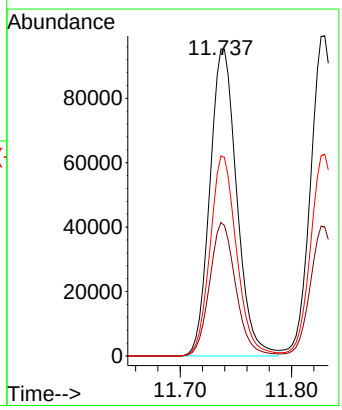
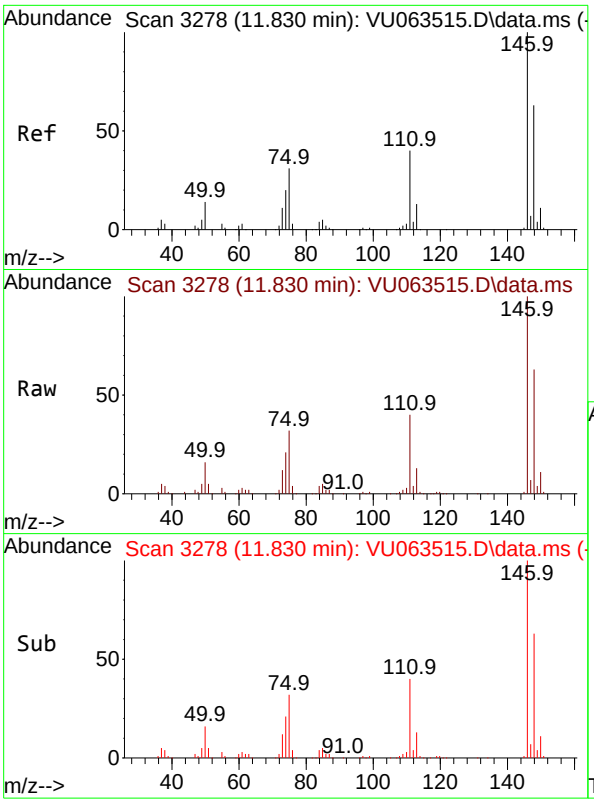


#82
1,3-Dichlorobenzene
Concen: 10.603 ug/l
RT: 11.737 min Scan# 3249
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:146 Resp: 160312

Ion	Ratio	Lower	Upper
146	100		
111	42.2	33.8	50.6
148	64.4	51.5	77.3





#83
1,4-Dichlorobenzene
Concen: 10.702 ug/l
RT: 11.830 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:146 Resp: 16196

Ion	Ratio	Lower	Upper
146	100		
111	40.0	32.0	48.0
148	62.7	50.2	75.2

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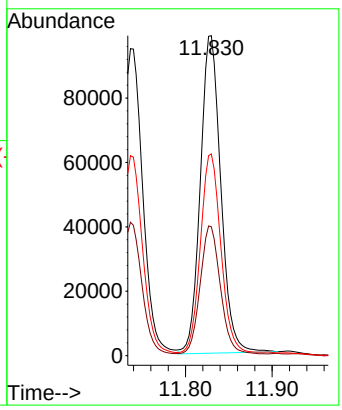
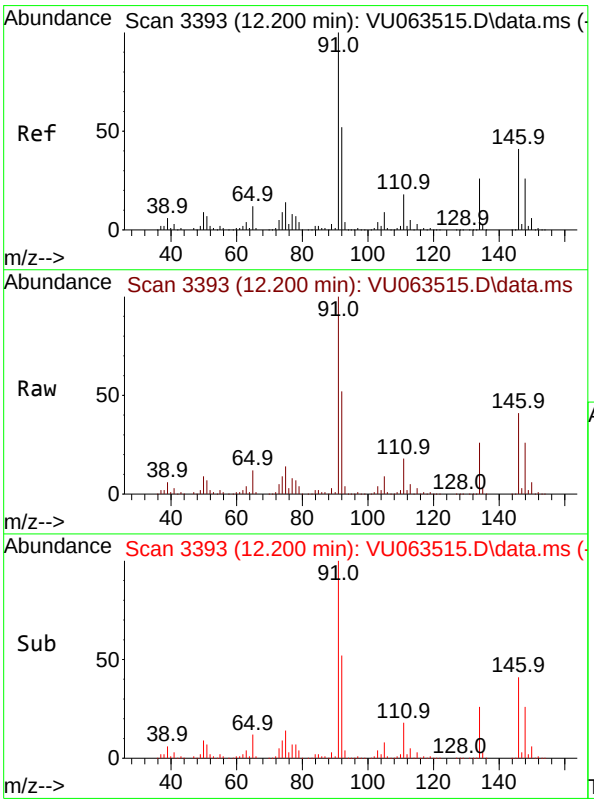
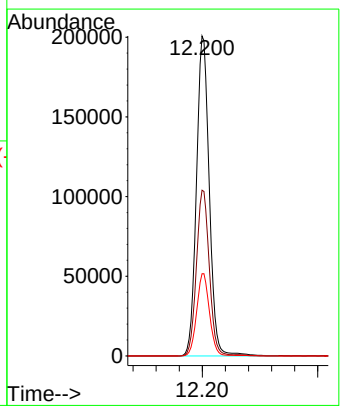


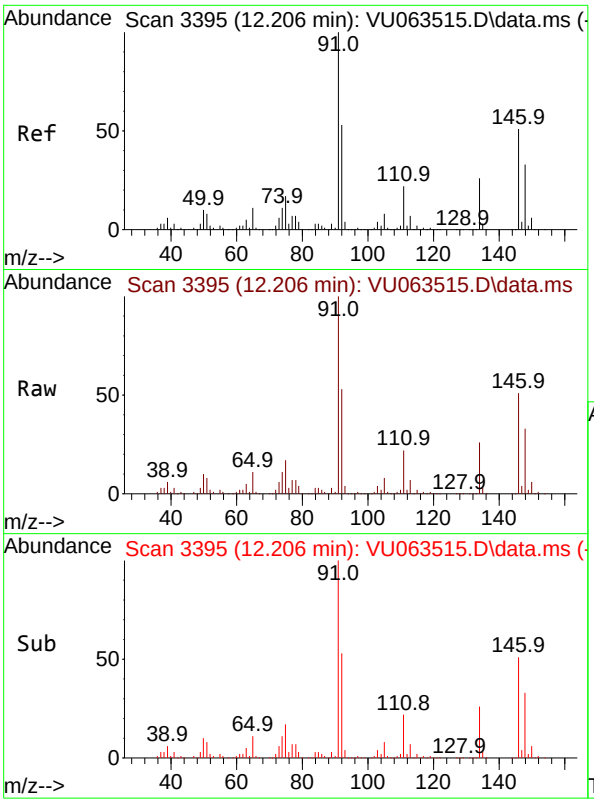


#84
n-Butylbenzene
Concen: 11.063 ug/l
RT: 12.200 min Scan# 3393
Delta R.T. -0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 91 Resp: 308761

Ion	Ratio	Lower	Upper
91	100		
92	51.9	41.5	62.3
134	25.7	20.6	30.8

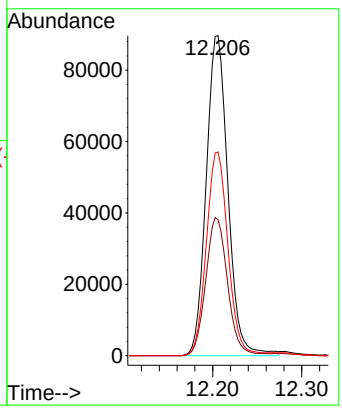




#85
1,2-Dichlorobenzene
Concen: 10.716 ug/l
RT: 12.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:146 Resp: 15220

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.7	65.1
148	63.5	31.8	95.3



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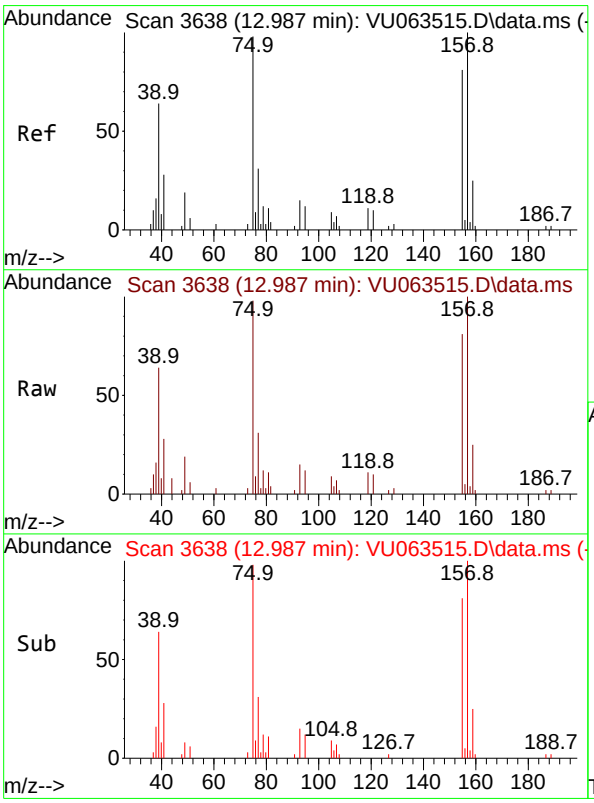
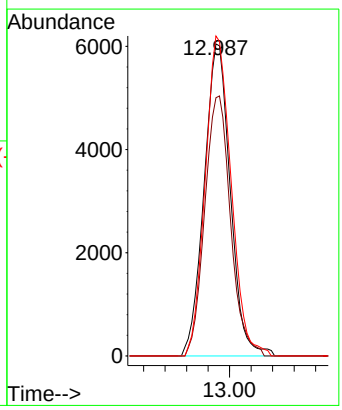
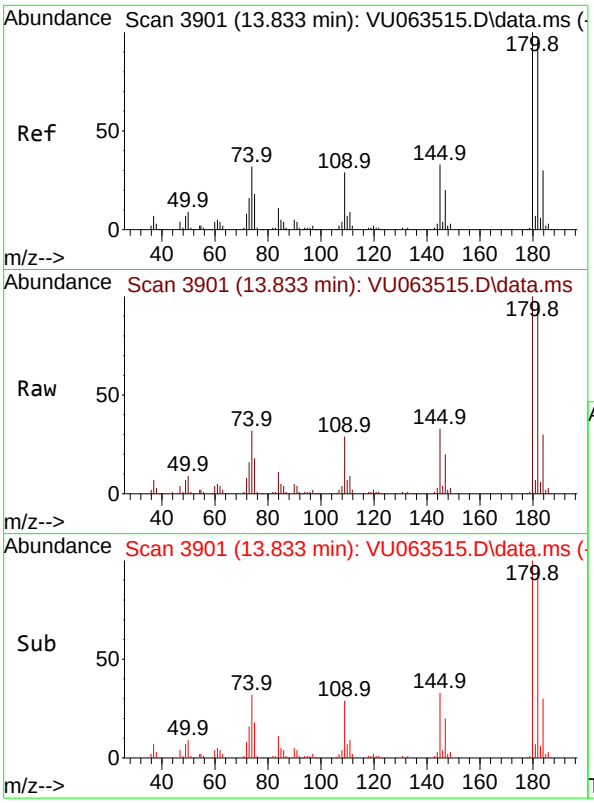


#86
1,2-Dibromo-3-Chloropropane
Concen: 10.093 ug/l
RT: 12.987 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 75 Resp: 10205

Ion	Ratio	Lower	Upper
75	100		
155	82.2	65.8	98.6
157	101.8	81.4	122.2

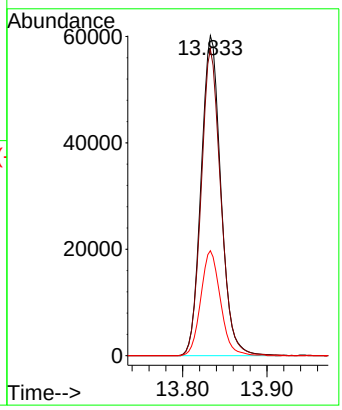




#87
1,2,4-Trichlorobenzene
Concen: 11.107 ug/l
RT: 13.833 min Scan# 3
Delta R.T. -0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:180 Resp: 9810

Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.4
145	32.7	26.2	39.2



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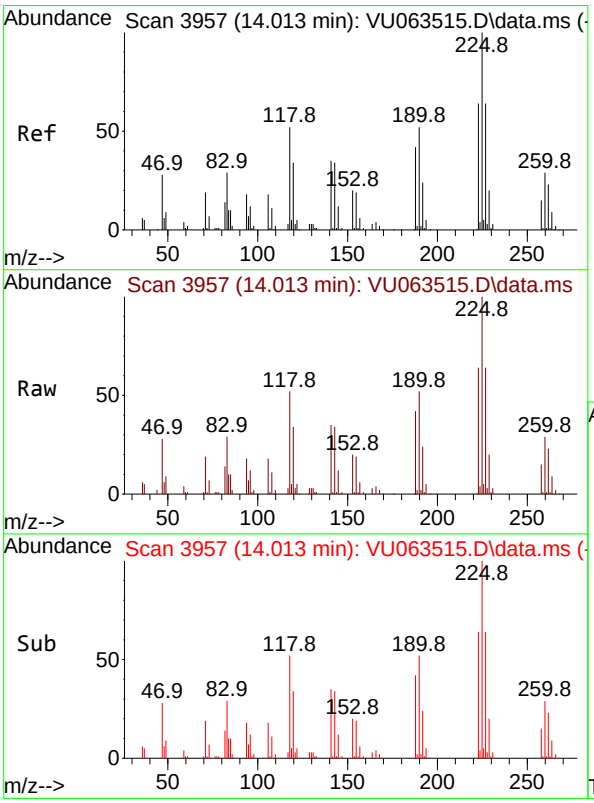
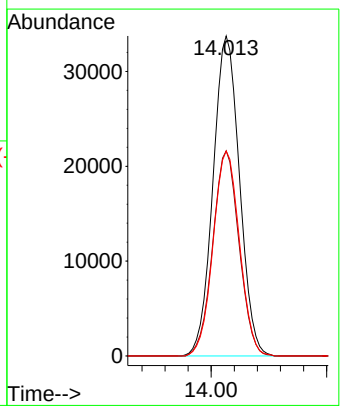
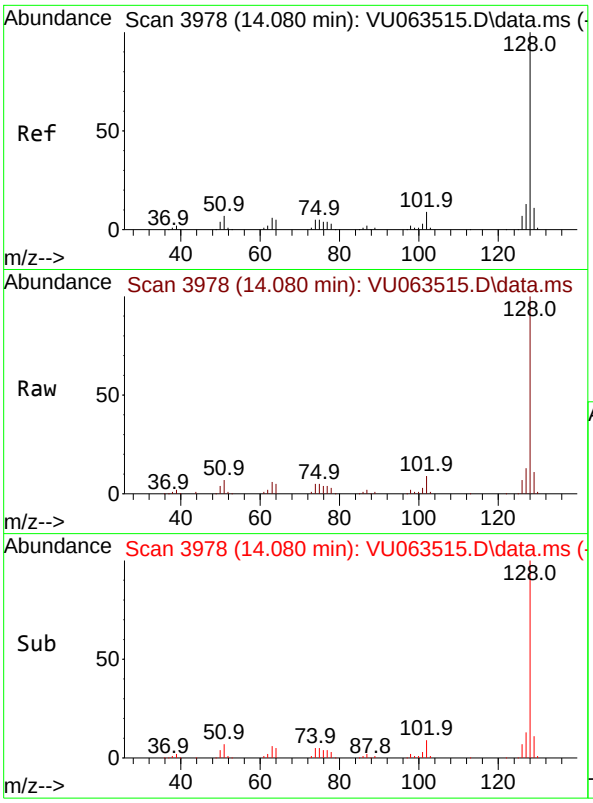


#88
Hexachlorobutadiene
Concen: 10.718 ug/l
RT: 14.013 min Scan# 3957
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:225 Resp: 53764

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.8	76.2
227	63.8	51.0	76.6

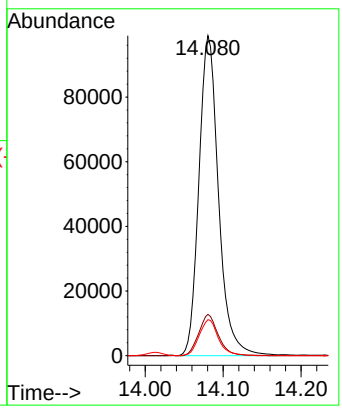




#89
Naphthalene
Concen: 10.937 ug/l
RT: 14.080 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:128 Resp: 17311

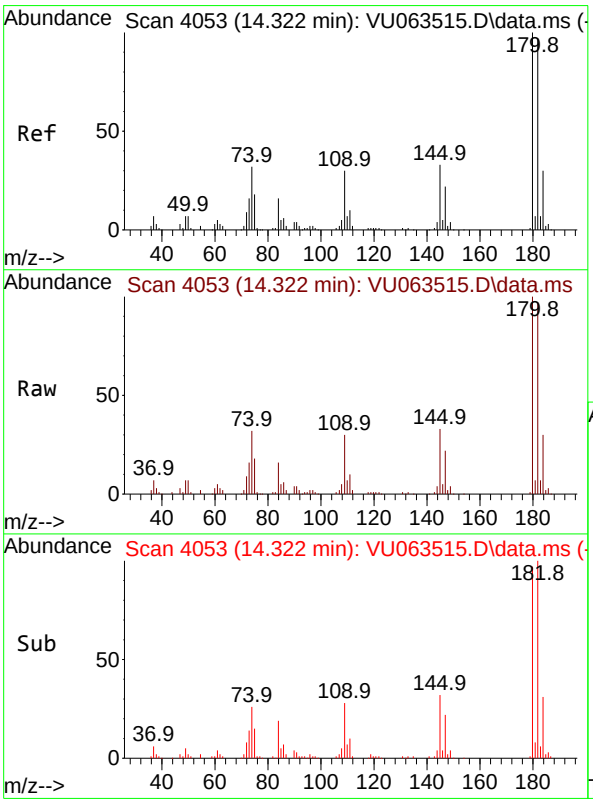
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	11.0	8.8	13.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

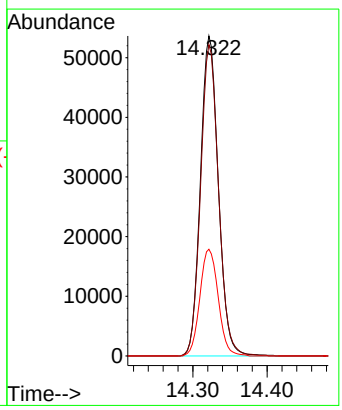
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#90
1,2,3-Trichlorobenzene
Concen: 11.015 ug/l
RT: 14.322 min Scan# 4053
Delta R.T. 0.000 min
Lab File: VU063515.D
Acq: 16 Jul 2025 11:37

Tgt Ion:180 Resp: 89908

Ion	Ratio	Lower	Upper
180	100		
182	97.5	78.0	117.0
145	34.1	27.3	40.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063516.D
Acq On : 16 Jul 2025 12:11
Operator : MD/SY
Sample : VSTDICC015
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:26:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	24893	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	9905	1.051	ug/l	0.00
Spiked Amount 1.000			Recovery = 105.000%			
68) 1,2-Dichlorobenzene-d4	12.187	152	9748	1.118	ug/l	0.00
Spiked Amount 1.000			Recovery = 112.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.380	85	118195	16.103	ug/l	100
3) Chloromethane	1.519	50	106285	15.578	ug/l	100
4) Vinyl Chloride	1.596	62	140324	16.148	ug/l	99
5) Bromomethane	1.837	94	94776	14.463	ug/l	99
6) Chloroethane	1.920	64	84236	16.055	ug/l	99
7) Trichlorofluoromethane	2.126	101	198726	15.928	ug/l	98
8) 1,1,2-Trichloro-1,2,2-...	2.567	101	103637	15.895	ug/l	99
9) 1,1-Dichloroethene	2.567	96	102475	15.857	ug/l	98
10) Iodomethane	2.708	142	154304	15.423	ug/l	99
11) Allyl Chloride	2.908	41	149875	16.053	ug/l	99
12) Acrylonitrile	3.303	53	46936	29.022	ug/l	96
13) Acetone	2.618	43	114282	88.245	ug/l	99
14) Carbon Disulfide	2.776	76	336090	16.100	ug/l	99
15) Methylene Chloride	3.030	84	115170	15.136	ug/l	99
16) trans-1,2-Dichloroethene	3.335	96	115592	15.749	ug/l	99
17) 1,1-Dichloroethane	3.850	63	213678	15.707	ug/l	99
18) 2-Butanone	4.708	43	167820	83.678	ug/l	100
19) Cyclohexane	5.364	56	180806	15.697	ug/l	98
20) Methylcyclohexane	6.743	83	193667	17.299	ug/l	99
21) 2,2-Dichloropropane	4.644	77	182585	15.761	ug/l	99
22) cis-1,2-Dichloroethene	4.650	96	125136	15.711	ug/l	99
23) Diethyl Ether	2.367	59	79700	16.184	ug/l	98
24) tert-Butyl Alcohol	3.187	59	95177	160.102	ug/l	99
25) Methyl tert-Butyl Ether	3.358	73	271458	16.090	ug/l	100
26) Bromochloromethane	4.956	128	54202	16.299	ug/l	99
27) Chloroform	5.071	83	217821	15.691	ug/l	99
28) 1,1,1-Trichloroethane	5.296	97	188574	16.005	ug/l	99
29) 1,1-Dichloropropene	5.505	75	174673	16.004	ug/l	98
30) Carbon Tetrachloride	5.502	117	162285	17.113	ug/l	96
31) Isopropyl Ether	3.991	45	323879	15.772	ug/l	98
32) Ethyl-t-butyl ether	4.502	59	302903	15.939	ug/l	98
33) Tert-Amyl methyl ether	5.940	73	268560	16.283	ug/l	99
34) Propionitrile	4.772	54	45659	74.722	ug/l	97
35) Benzene	5.756	78	473682	16.153	ug/l	99
36) 1,2-Dichloroethane	5.782	62	147295	16.165	ug/l	99
37) Trichloroethene	6.525	130	128676	17.198	ug/l	98
38) 1,2-Dichloropropane	6.779	63	124831	18.188	ug/l	100
39) Methacrylonitrile	4.972	41	39512	14.730	ug/l	99
40) Methyl acrylate	4.843	55	65123	16.402	ug/l	99
41) Tetrahydrofuran	5.059	42	40858	28.595	ug/l	100
42) 1-Chlorobutane	5.438	56	232046	15.991	ug/l	99
43) Dibromomethane	6.904	93	62716	17.639	ug/l	99
44) Bromodichloromethane	7.094	83	144794	18.058	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063516.D
Acq On : 16 Jul 2025 12:11
Operator : MD/SY
Sample : VSTDICC015
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:26:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.795	43	310822	84.821	ug/l	100
46) t-1,4-Dichloro-2-butene	10.824	75	41713m	32.085	ug/l	
47) Methyl methacrylate	6.962	69	114716	38.417	ug/l	98
48) Ethyl methacrylate	8.335	69	101021	17.728	ug/l	99
49) Toluene	7.959	92	268202	16.751	ug/l	99
50) t-1,3-Dichloropropene	8.203	75	116990	18.597	ug/l	97
51) cis-1,3-Dichloropropene	7.595	75	168909	20.004	ug/l	100
52) 1,1,2-Trichloroethane	8.393	97	78885	16.480	ug/l	99
53) 1,3-Dichloropropane	8.566	76	135862	16.441	ug/l	100
54) 2-Hexanone	8.689	43	213057	87.533	ug/l	99
55) Dibromochloromethane	8.801	129	92530	18.292	ug/l	98
56) 1,2-Dibromoethane	8.917	107	70483	16.452	ug/l	98
58) Tetrachloroethene	8.541	164	110328	16.111	ug/l	98
59) Chlorobenzene	9.441	112	309351	16.822	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.525	131	101862	17.225	ug/l	98
61) Pentachloroethane	11.418	117	77252	18.487	ug/l	99
62) Hexachloroethane	12.467	117	79431	19.195	ug/l	99
63) Ethyl Benzene	9.563	91	525757	16.614	ug/l	99
64) m/p-Xylenes	9.685	106	421278	34.249	ug/l	100
65) o-Xylene	10.091	106	205249	17.365	ug/l	98
66) Styrene	10.107	104	336001	17.837	ug/l	100
67) Bromoform	10.283	173	48978	18.852	ug/l	99
69) Isopropylbenzene	10.476	105	492082	17.221	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.775	83	98628	16.933	ug/l	100
71) 1,2,3-Trichloropropane	10.817	75	76288m	16.049	ug/l	
72) Bromobenzene	10.775	156	128042	17.363	ug/l	97
73) n-propylbenzene	10.898	120	149954	17.433	ug/l	100
74) 2-Chlorotoluene	10.978	126	130274	17.136	ug/l	98
75) 1,3,5-Trimethylbenzene	11.081	105	478010	17.511	ug/l	99
76) 4-Chlorotoluene	11.090	126	132384	17.147	ug/l	98
77) tert-Butylbenzene	11.412	119	450846	17.282	ug/l	100
78) 1,2,4-Trimethylbenzene	11.460	105	473538	17.485	ug/l	99
79) sec-Butylbenzene	11.634	105	612652	17.415	ug/l	99
80) Nitrobenzene	13.203	77	11188	74.783	ug/l	94
81) p-Isopropyltoluene	11.785	119	516607	17.591	ug/l	99
82) 1,3-Dichlorobenzene	11.737	146	254102	17.221	ug/l	99
83) 1,4-Dichlorobenzene	11.830	146	265531	17.978	ug/l	98
84) n-Butylbenzene	12.200	91	492464	18.081	ug/l	100
85) 1,2-Dichlorobenzene	12.203	146	242217	17.474	ug/l	100
86) 1,2-Dibromo-3-Chloropr...	12.988	75	16421	14.975	ug/l	98
87) 1,2,4-Trichlorobenzene	13.833	180	158574	18.396	ug/l	99
88) Hexachlorobutadiene	14.013	225	86303	17.630	ug/l	99
89) Naphthalene	14.077	128	292967	18.966	ug/l	100
90) 1,2,3-Trichlorobenzene	14.322	180	149249	18.735	ug/l	99

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

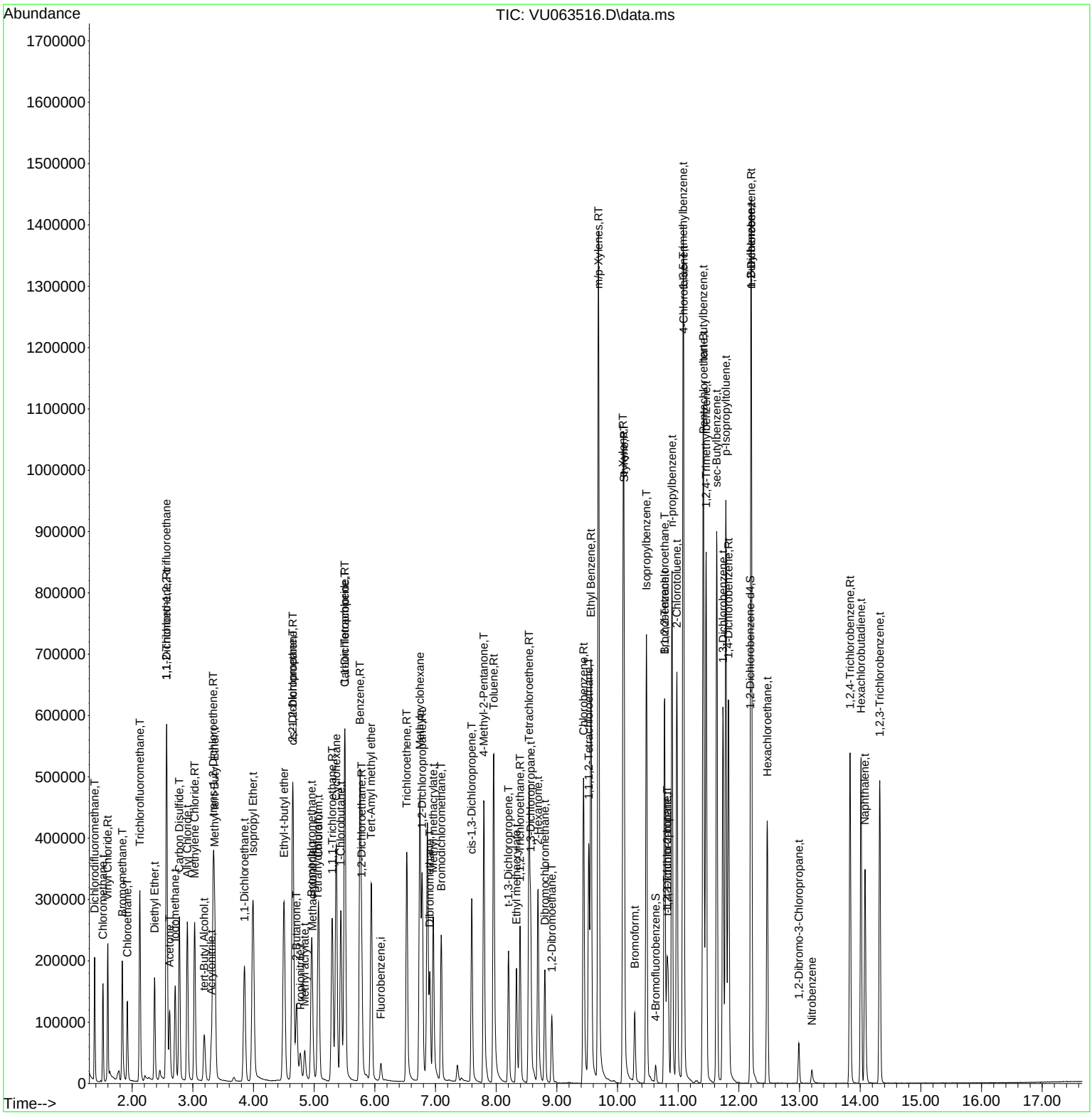
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063516.D
Acq On : 16 Jul 2025 12:11
Operator : MD/SY
Sample : VSTDICC015
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

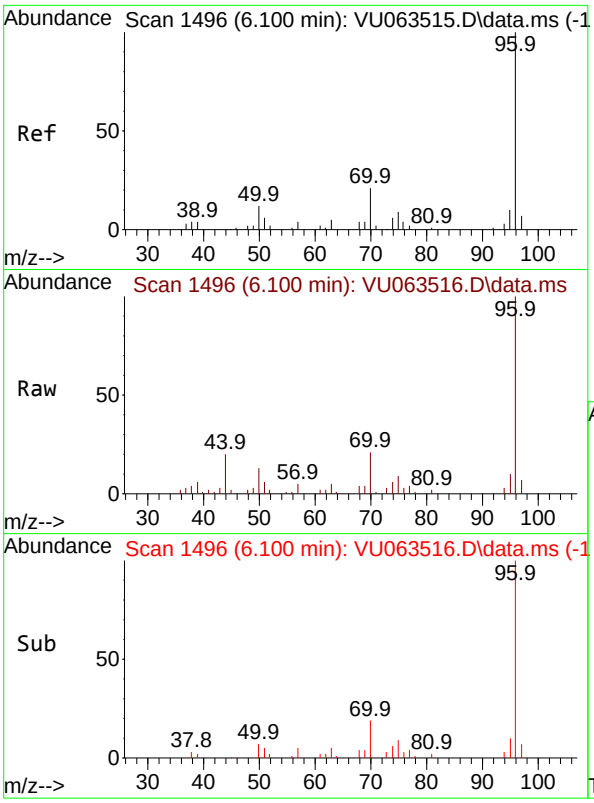
Quant Time: Jul 17 03:26:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

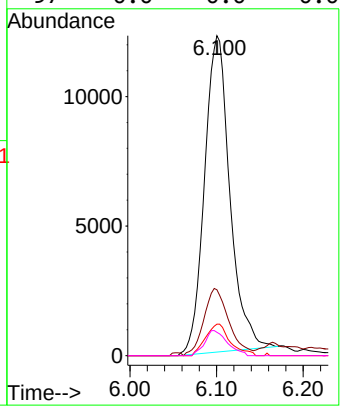




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.100 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 96 Resp: 2489

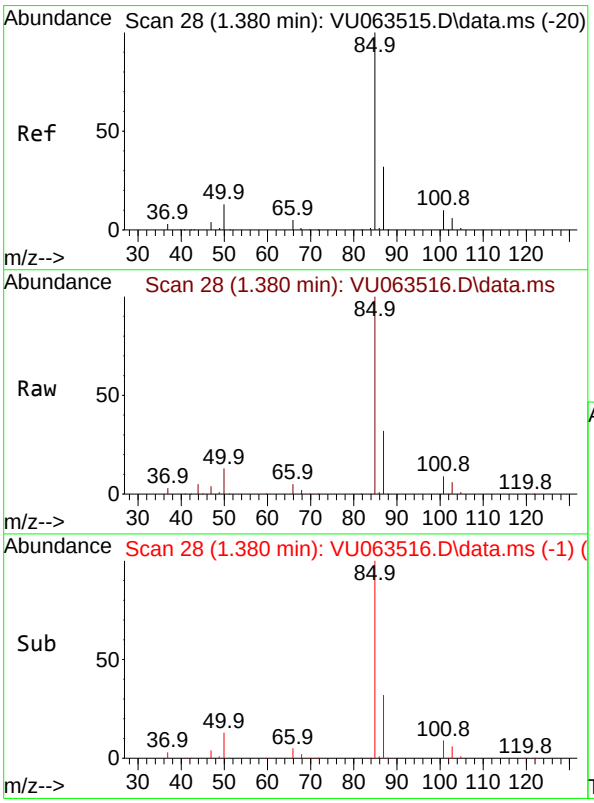
Ion	Ratio	Lower	Upper
96	100		
70	19.2	15.0	22.4
95	0.0	7.4	11.0#
97	0.0	0.0	0.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

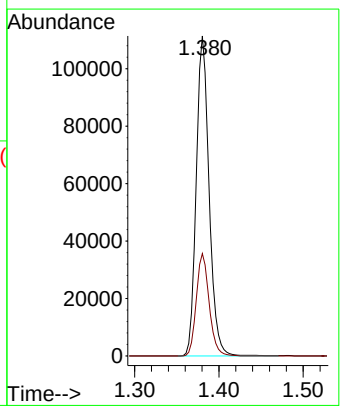
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

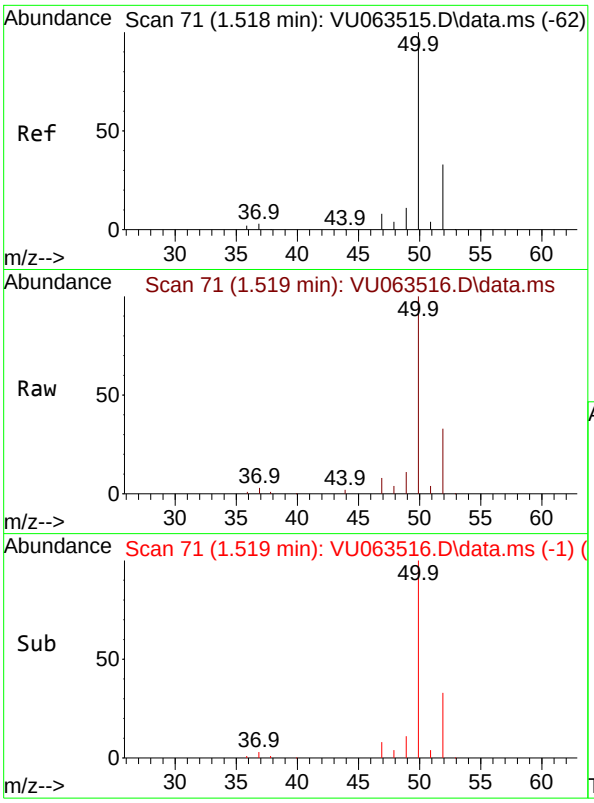


#2
Dichlorodifluoromethane
Concen: 16.103 ug/l
RT: 1.380 min Scan# 28
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 85 Resp: 118195

Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.0	47.9

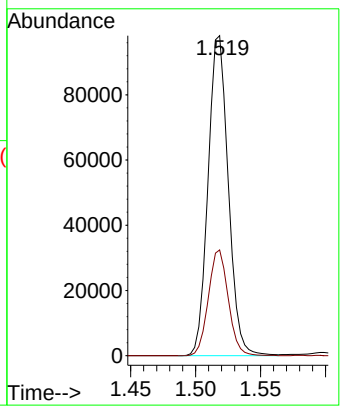




#3
Chloromethane
Concen: 15.578 ug/l
RT: 1.519 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 50 Resp: 10628

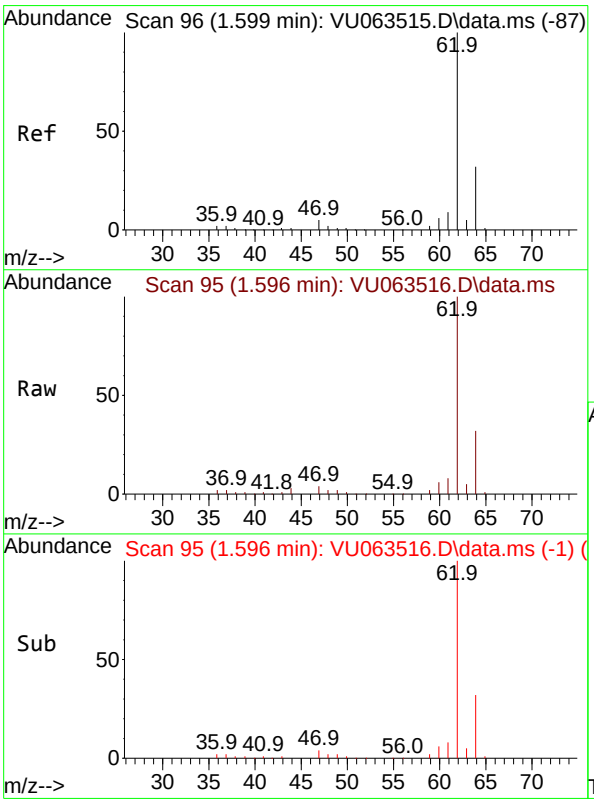
Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.3	39.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

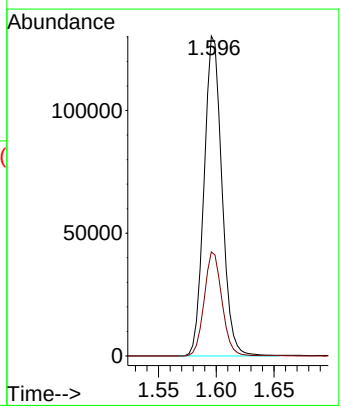
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

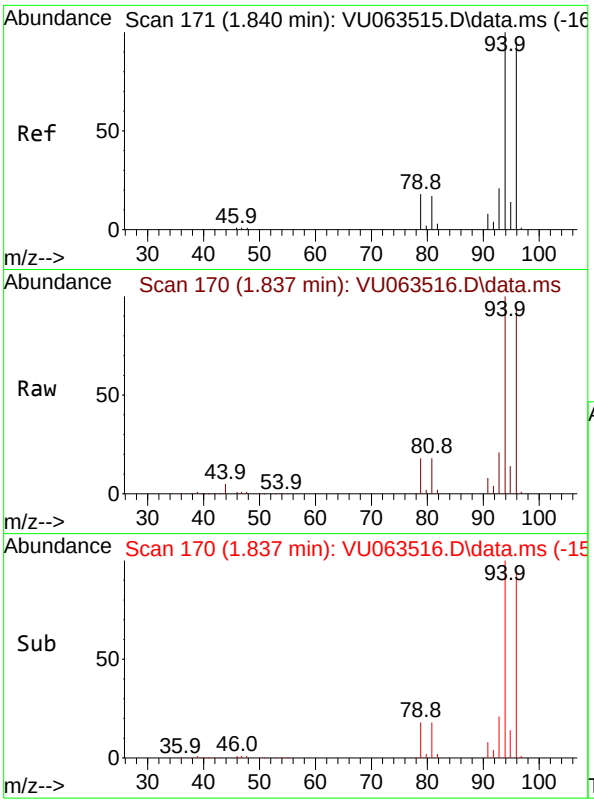


#4
Vinyl Chloride
Concen: 16.148 ug/l
RT: 1.596 min Scan# 95
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 62 Resp: 140324

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.7	38.5

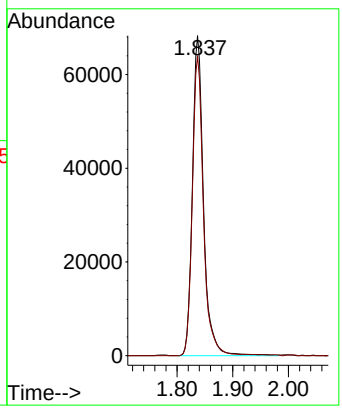




#5
Bromomethane
Concen: 14.463 ug/l
RT: 1.837 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 94 Resp: 9477

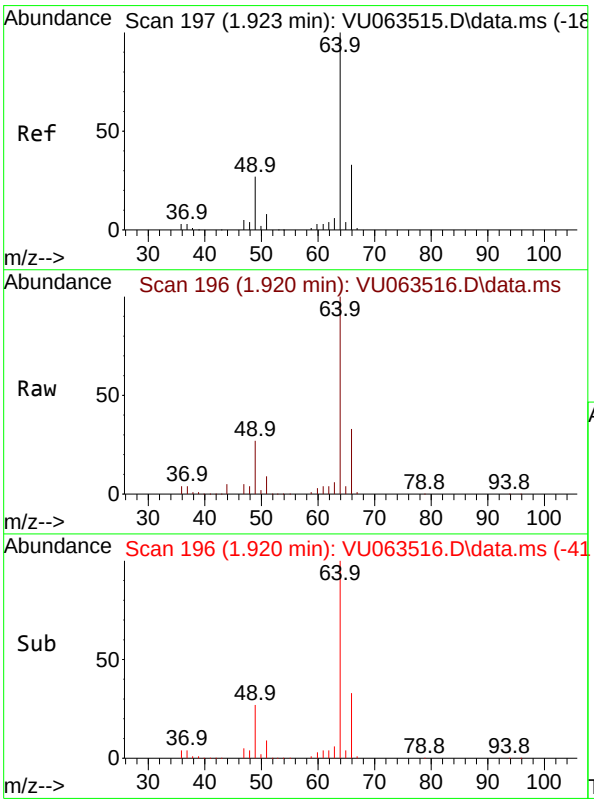
Ion	Ratio	Lower	Upper
94	100		
96	93.8	75.8	113.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

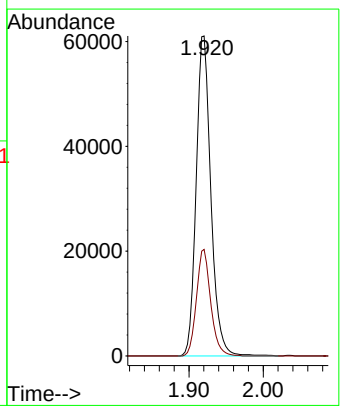
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

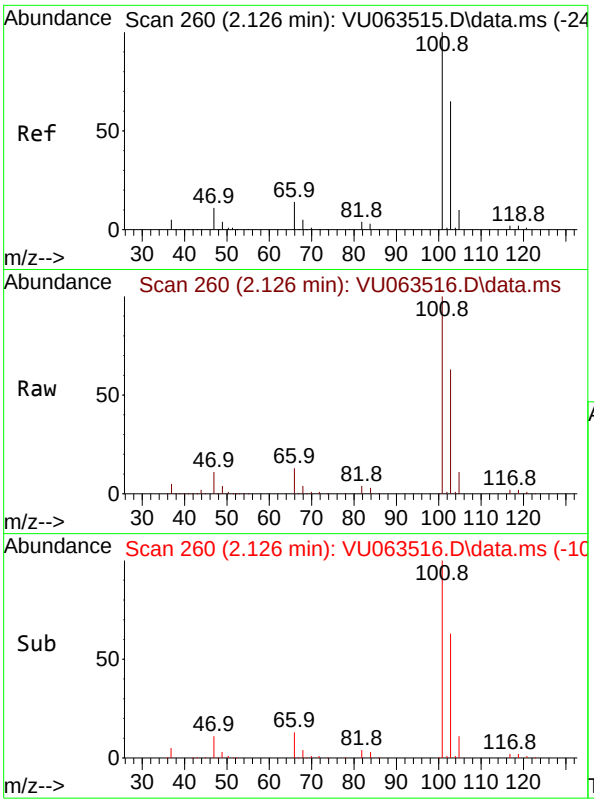


#6
Chloroethane
Concen: 16.055 ug/l
RT: 1.920 min Scan# 196
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 64 Resp: 84236

Ion	Ratio	Lower	Upper
64	100		
66	33.3	26.2	39.4





#7
Trichlorofluoromethane
Concen: 15.928 ug/l
RT: 2.126 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

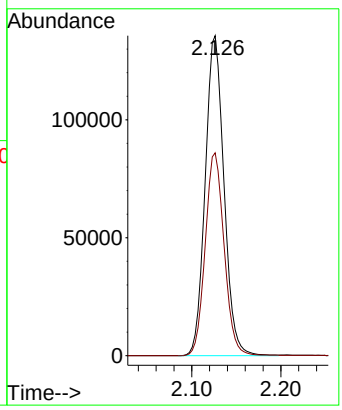
Tgt Ion:101 Resp: 19872(

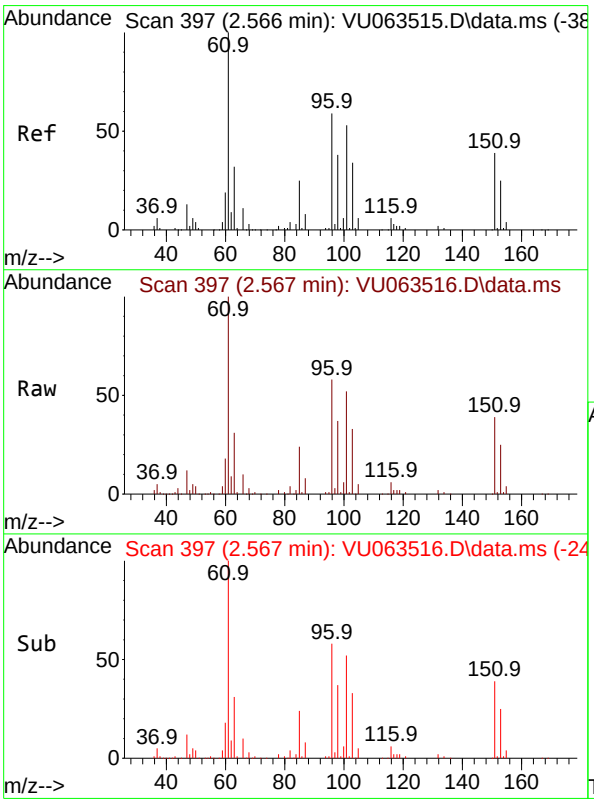
Ion	Ratio	Lower	Upper
101	100		
103	63.4	52.2	78.4

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

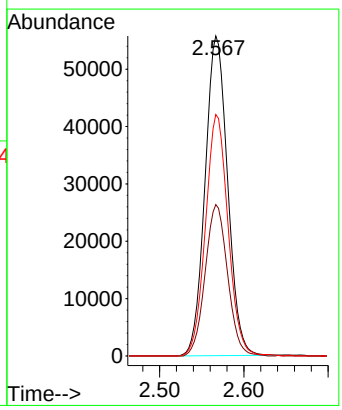


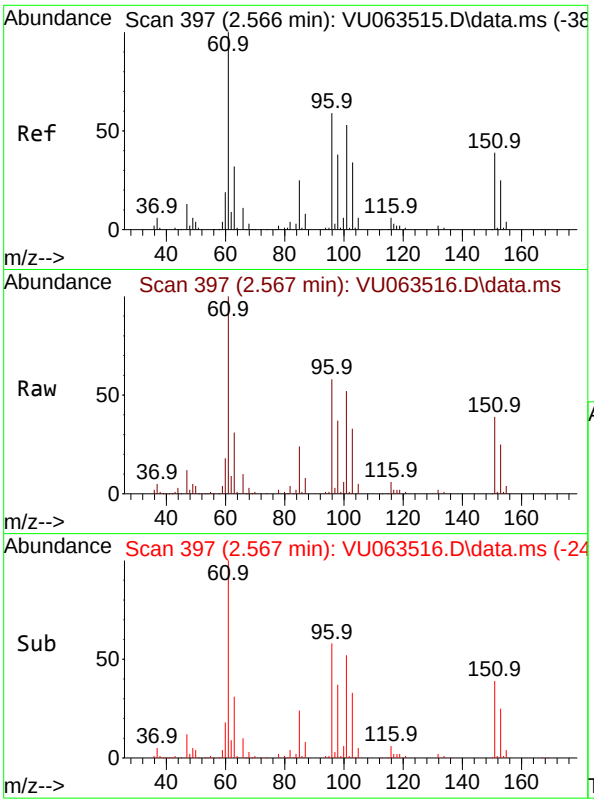


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 15.895 ug/l
RT: 2.567 min Scan# 397
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:101 Resp: 103637

Ion	Ratio	Lower	Upper
101	100		
85	47.1	37.8	56.6
151	75.9	59.2	88.8





#9
1,1-Dichloroethene
Concen: 15.857 ug/l
RT: 2.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 96 Resp: 10247

Ion	Ratio	Lower	Upper
96	100		
61	172.3	0.0	504.3
98	63.7	0.0	126.8

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

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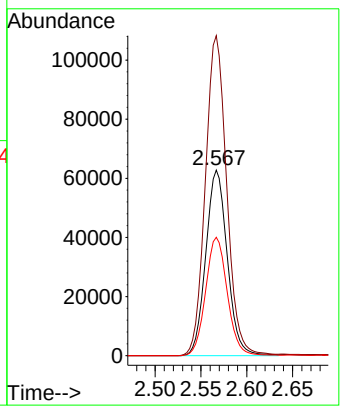
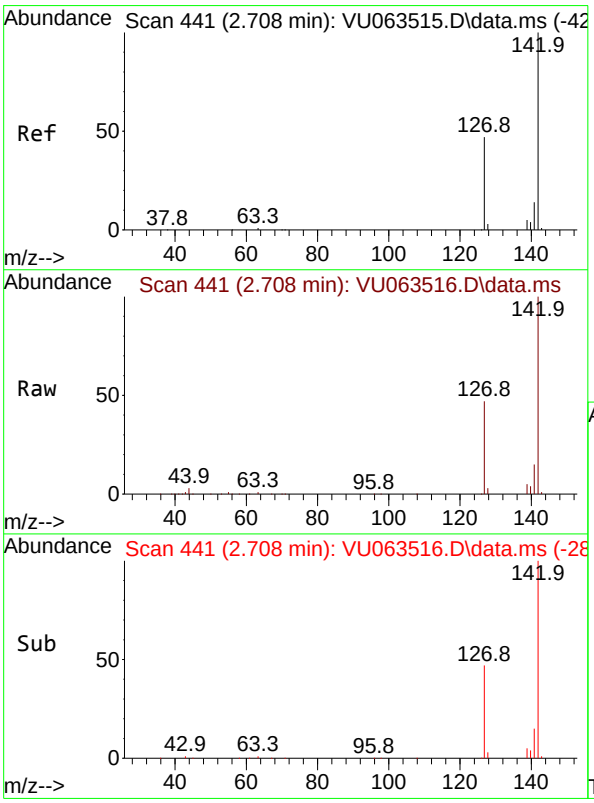
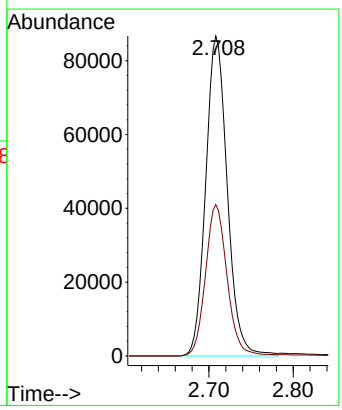


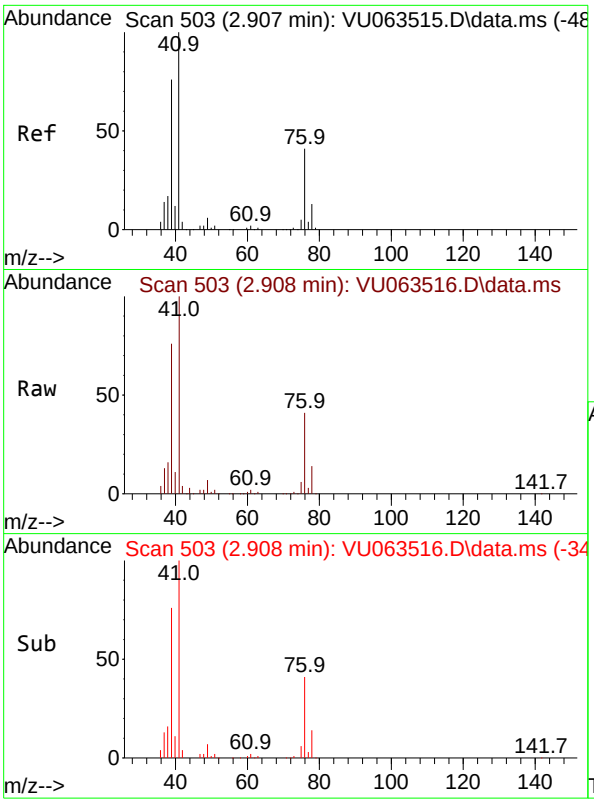


#10
Iodomethane
Concen: 15.423 ug/l
RT: 2.708 min Scan# 441
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:142 Resp: 154304

Ion	Ratio	Lower	Upper
142	100		
127	48.2	37.9	56.9

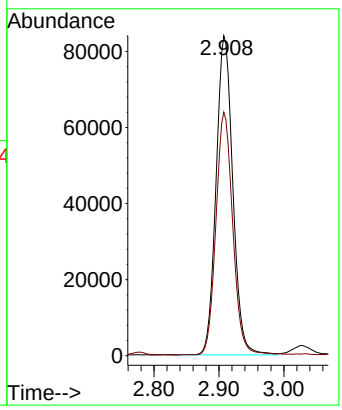




#11
Allyl Chloride
Concen: 16.053 ug/l
RT: 2.908 min Scan# 5
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 41 Resp: 14987

Ion	Ratio	Lower	Upper
41	100		
39	76.2	61.5	92.3



Instrument :
MSVOA_U
ClientSampleId :
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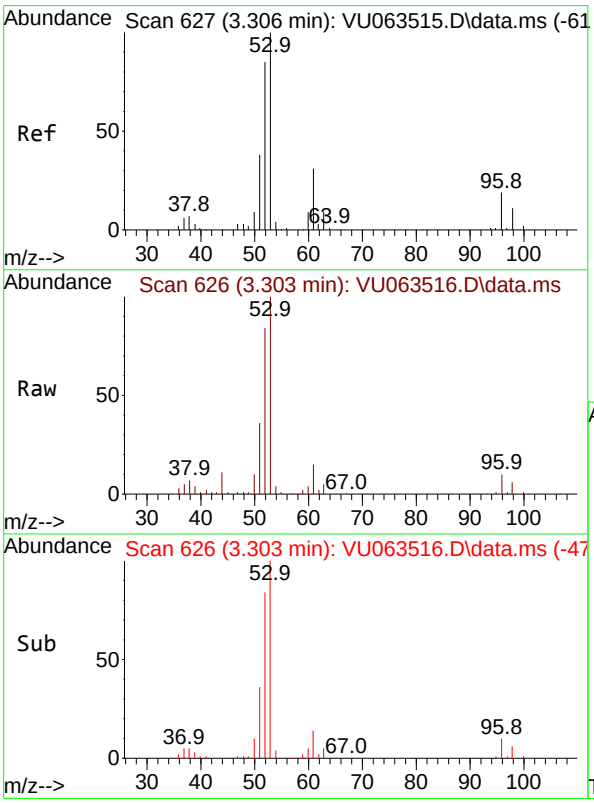
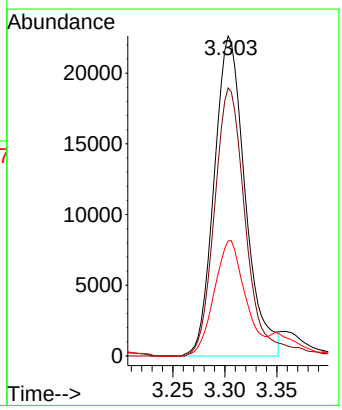
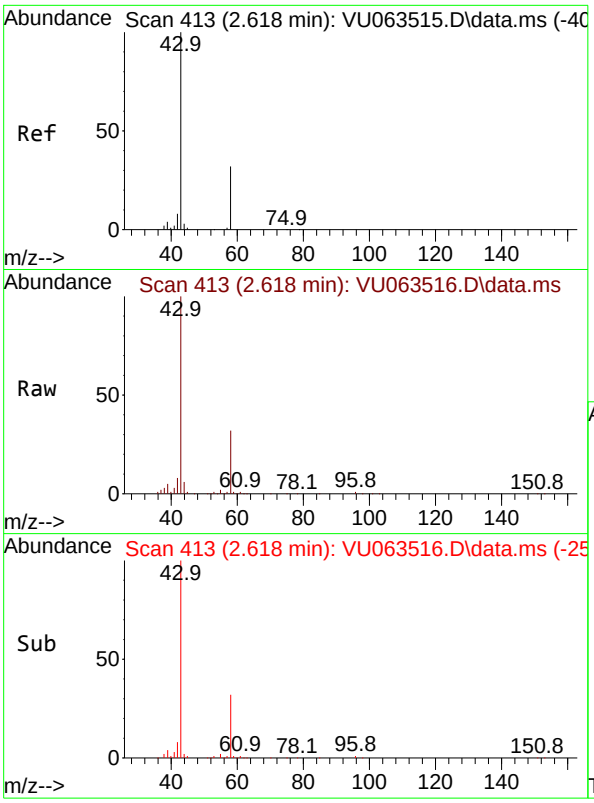


#12
Acrylonitrile
Concen: 29.022 ug/l
RT: 3.303 min Scan# 626
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 53 Resp: 46936

Ion	Ratio	Lower	Upper
53	100		
52	84.6	64.3	96.5
51	36.8	27.8	41.8





#13
Acetone
Concen: 88.245 ug/l
RT: 2.618 min Scan# 41
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 43 Resp: 11428

Ion	Ratio	Lower	Upper
43	100		
58	32.3	25.4	38.0

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

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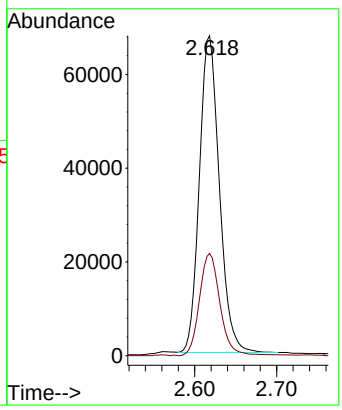
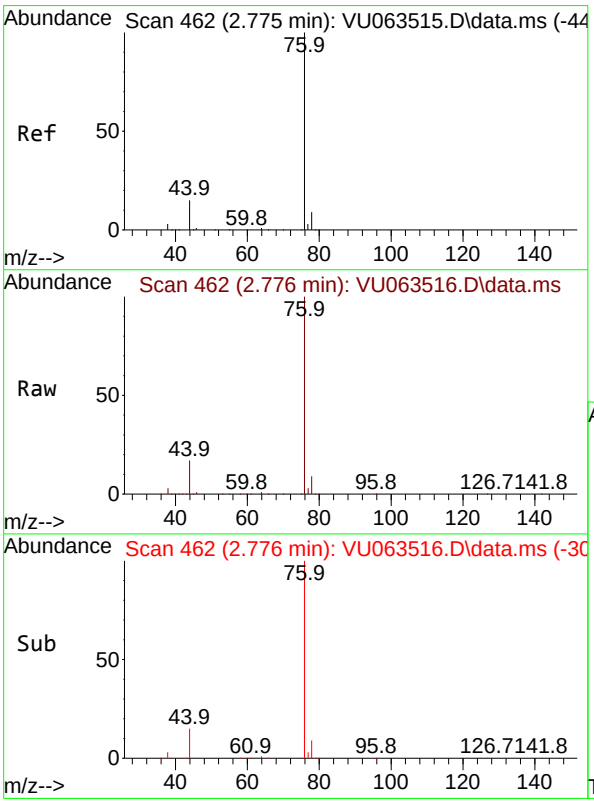
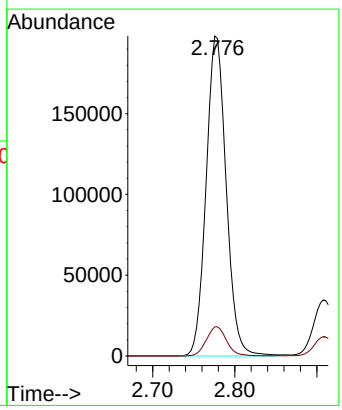


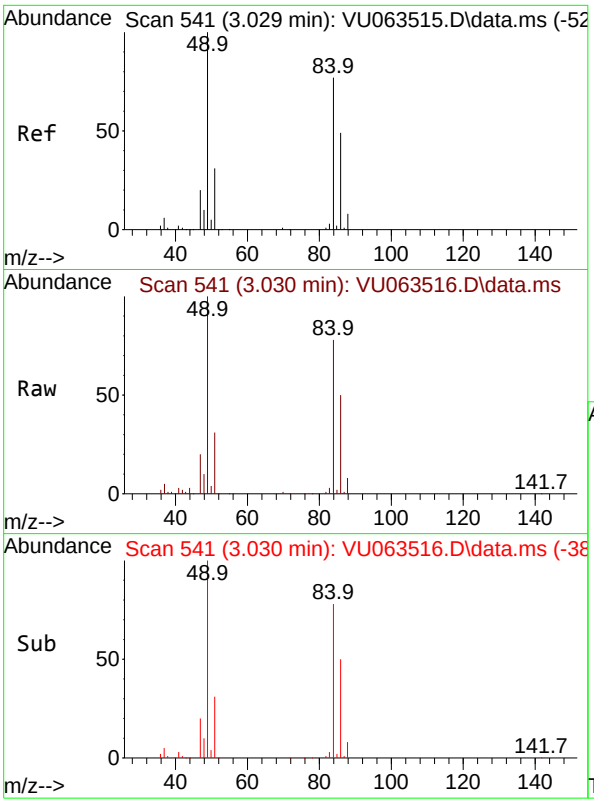


#14
Carbon Disulfide
Concen: 16.100 ug/l
RT: 2.776 min Scan# 462
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 76 Resp: 336090

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.6

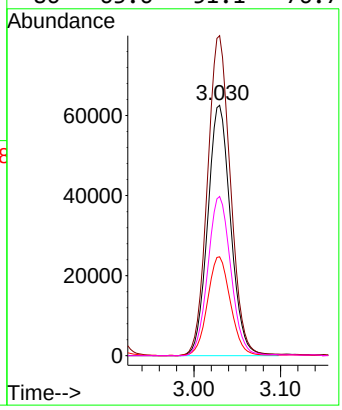




#15
Methylene Chloride
Concen: 15.136 ug/l
RT: 3.030 min Scan# 54
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 84 Resp: 11517

Ion	Ratio	Lower	Upper
84	100		
49	127.8	103.8	155.8
51	39.5	0.0	80.4
86	63.6	51.1	76.7



Instrument :
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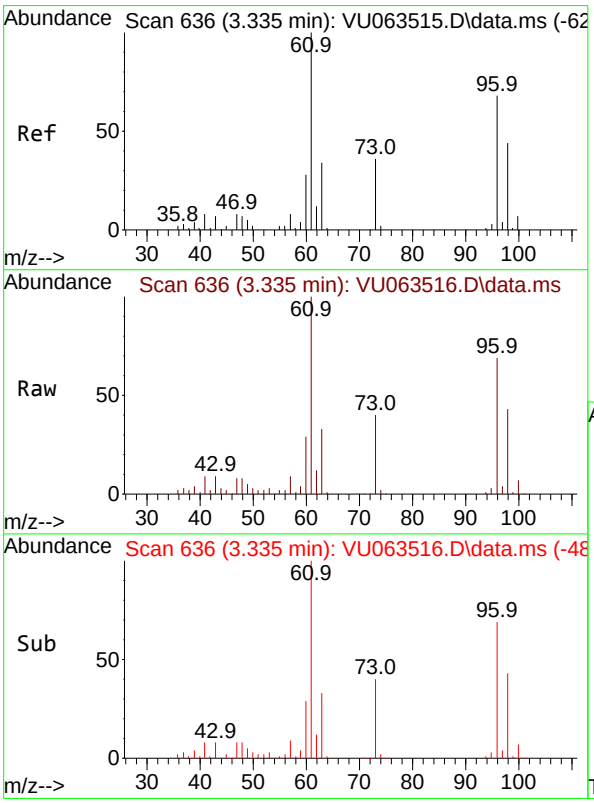
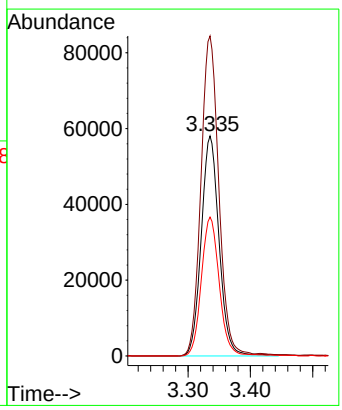
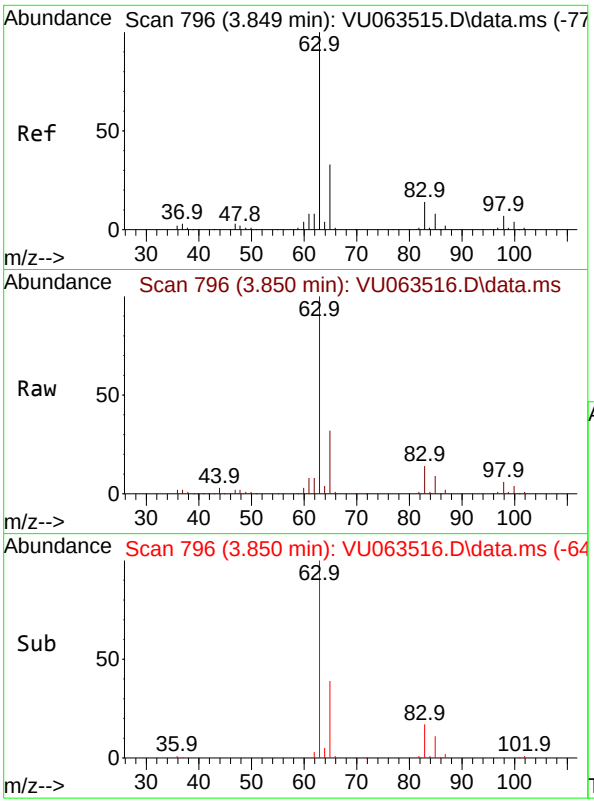


#16
trans-1,2-Dichloroethene
Concen: 15.749 ug/l
RT: 3.335 min Scan# 636
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 96 Resp: 115592

Ion	Ratio	Lower	Upper
96	100		
61	145.4	117.2	175.8
98	63.1	51.4	77.2

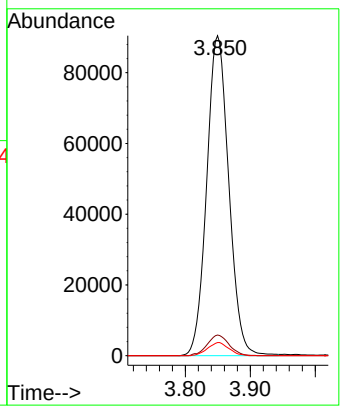




#17
1,1-Dichloroethane
Concen: 15.707 ug/l
RT: 3.850 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 63 Resp: 21367

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.4	10.2
100	4.1	2.1	6.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

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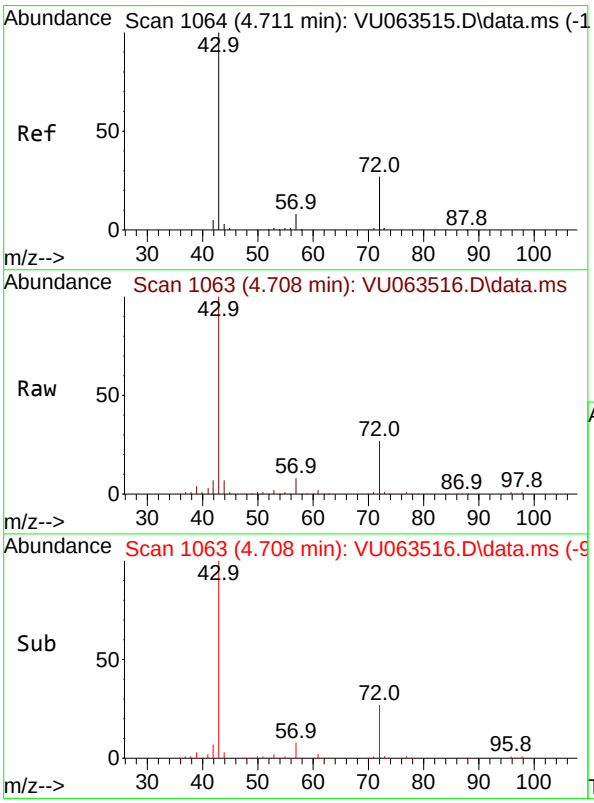
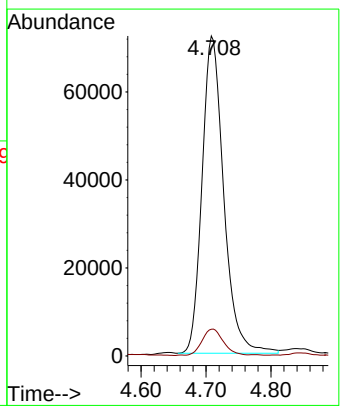
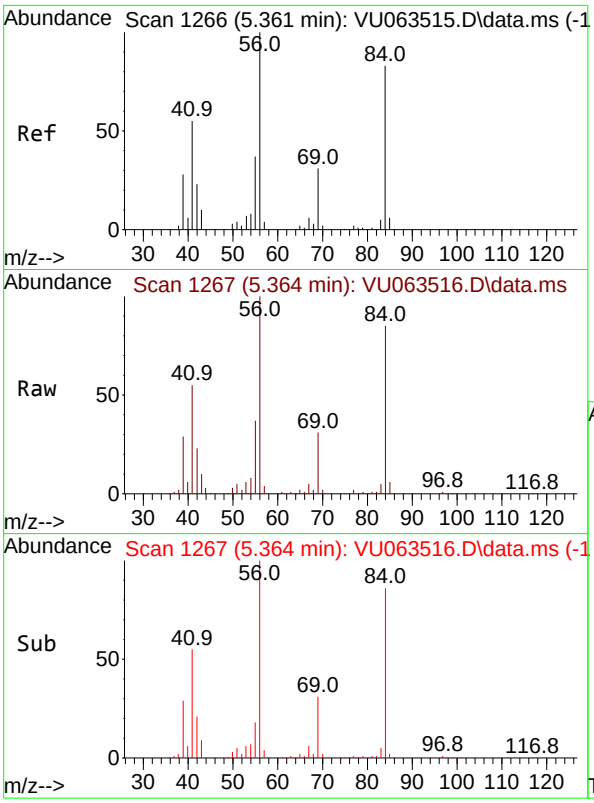


#18
2-Butanone
Concen: 83.678 ug/l
RT: 4.708 min Scan# 1063
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 43 Resp: 167820

Ion	Ratio	Lower	Upper
43	100		
57	8.2	0.0	16.4

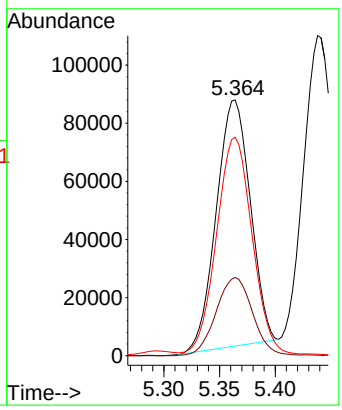




#19
Cyclohexane
Concen: 15.697 ug/l
RT: 5.364 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 56 Resp: 18080

Ion	Ratio	Lower	Upper
56	100		
69	33.4	26.6	39.8
84	90.7	71.0	106.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

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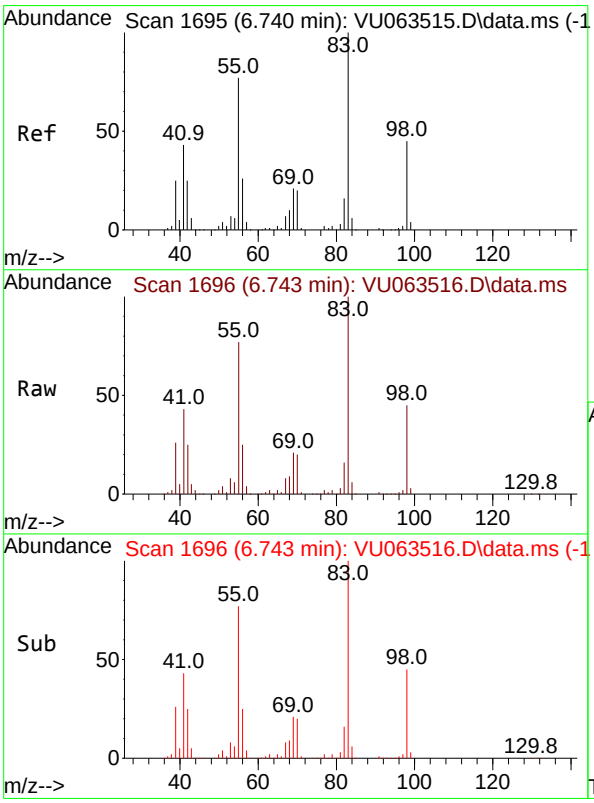
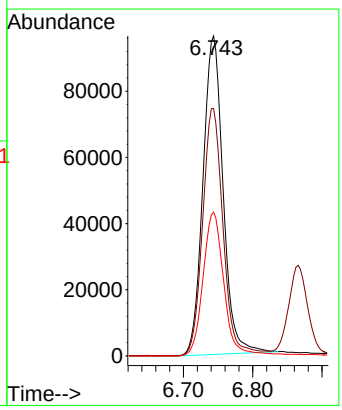
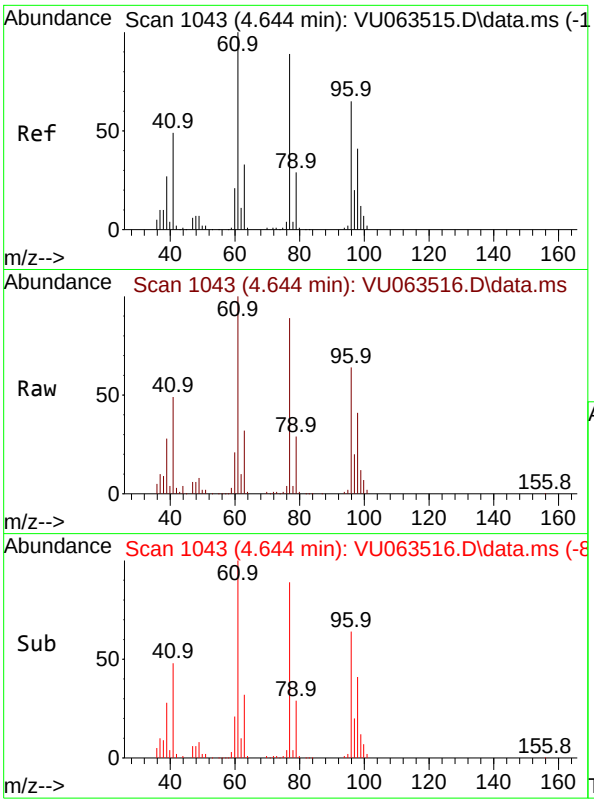


#20
Methylcyclohexane
Concen: 17.299 ug/l
RT: 6.743 min Scan# 1696
Delta R.T. 0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 83 Resp: 193667

Ion	Ratio	Lower	Upper
83	100		
55	76.3	60.6	90.8
98	45.9	35.8	53.8

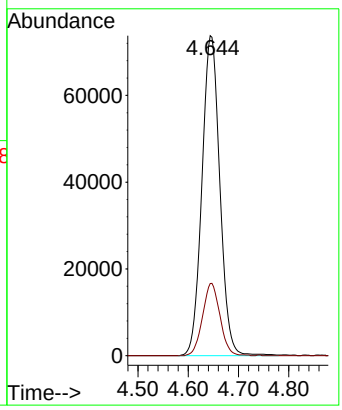




#21
2,2-Dichloropropane
Concen: 15.761 ug/l
RT: 4.644 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 77 Resp: 18258

Ion	Ratio	Lower	Upper
77	100		
97	22.0	17.8	26.8



Instrument :
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ClientSampleId :
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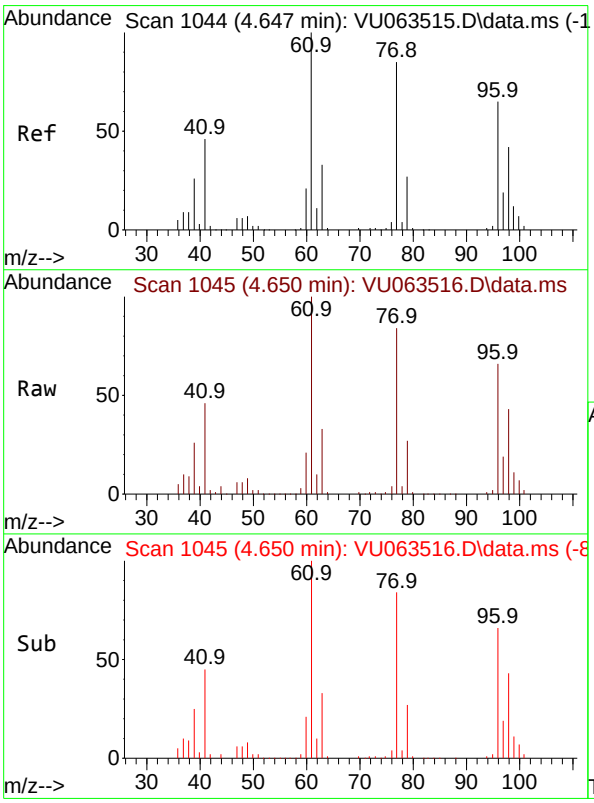
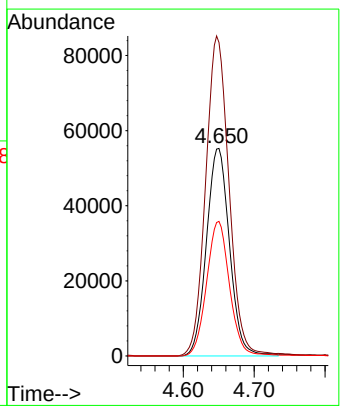
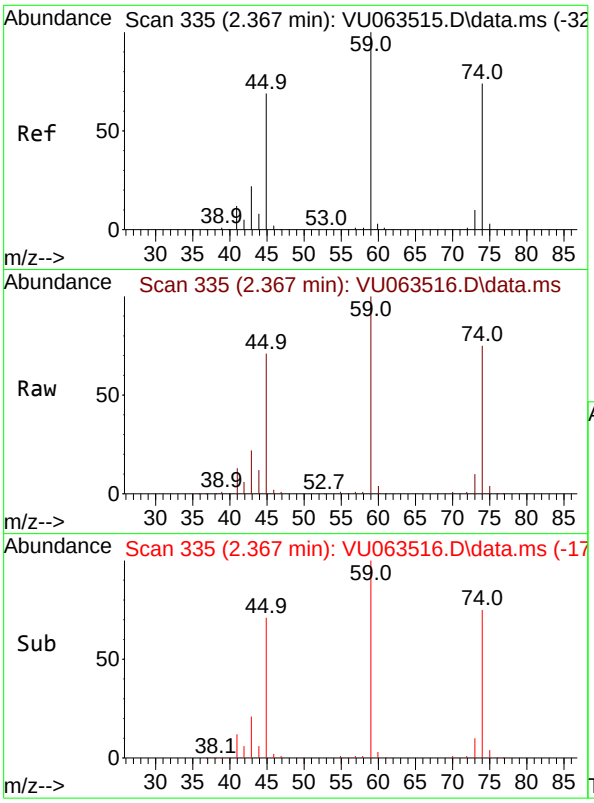


#22
cis-1,2-Dichloroethene
Concen: 15.711 ug/l
RT: 4.650 min Scan# 1045
Delta R.T. 0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 96 Resp: 125136

Ion	Ratio	Lower	Upper
96	100		
61	156.1	0.0	384.7
98	64.6	32.1	96.3

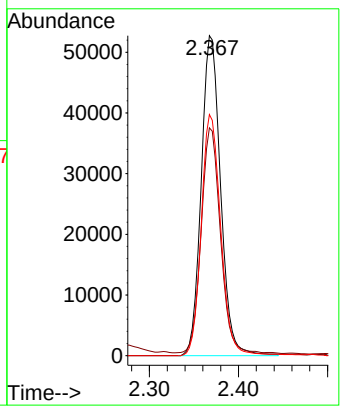




#23
Diethyl Ether
Concen: 16.184 ug/l
RT: 2.367 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 59 Resp: 7970

Ion	Ratio	Lower	Upper
59	100		
45	68.9	55.1	82.7
74	76.0	58.2	87.4



Instrument :
MSVOA_U
ClientSampleId :
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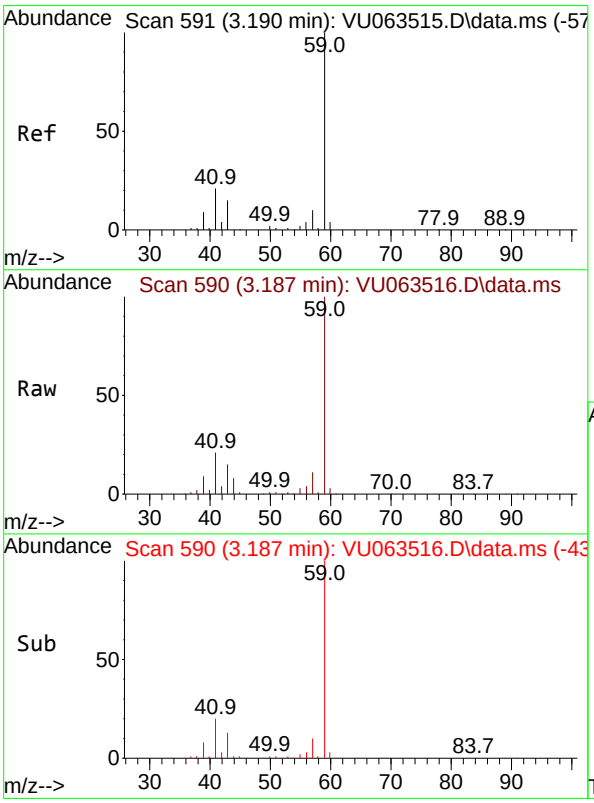
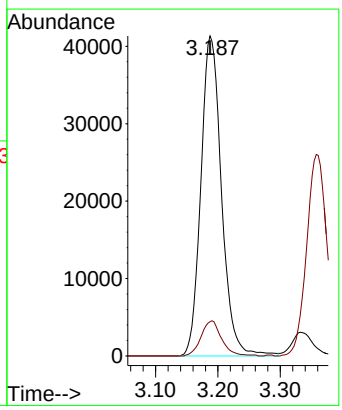
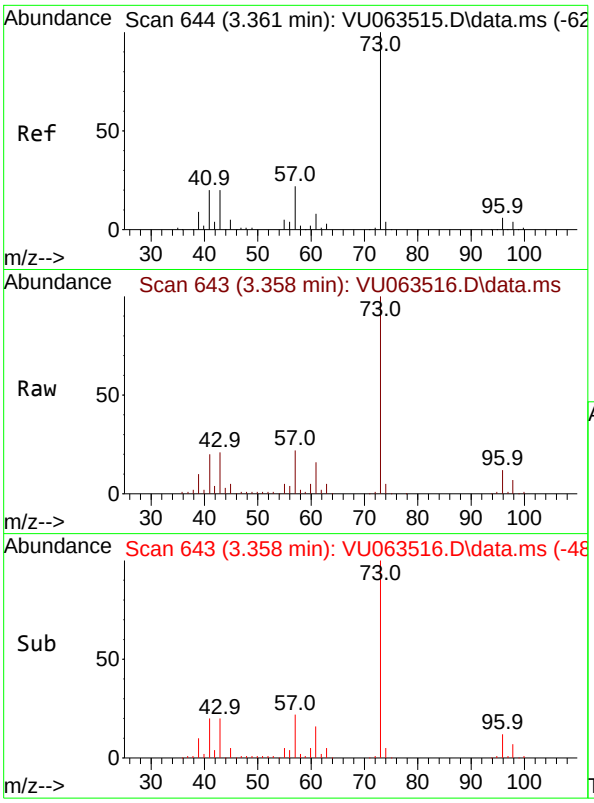


#24
tert-Butyl Alcohol
Concen: 160.102 ug/l
RT: 3.187 min Scan# 590
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 59 Resp: 95177

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	12.8





#25
Methyl tert-Butyl Ether
Concen: 16.090 ug/l
RT: 3.358 min Scan# 64
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 73 Resp: 27145

Ion	Ratio	Lower	Upper
73	100		
43	20.2	16.2	24.2

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

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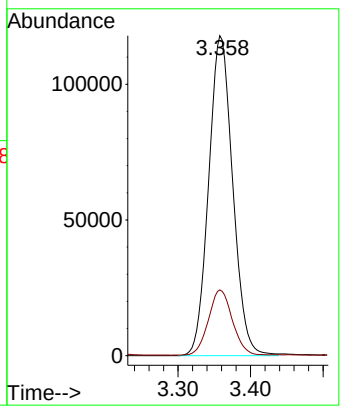
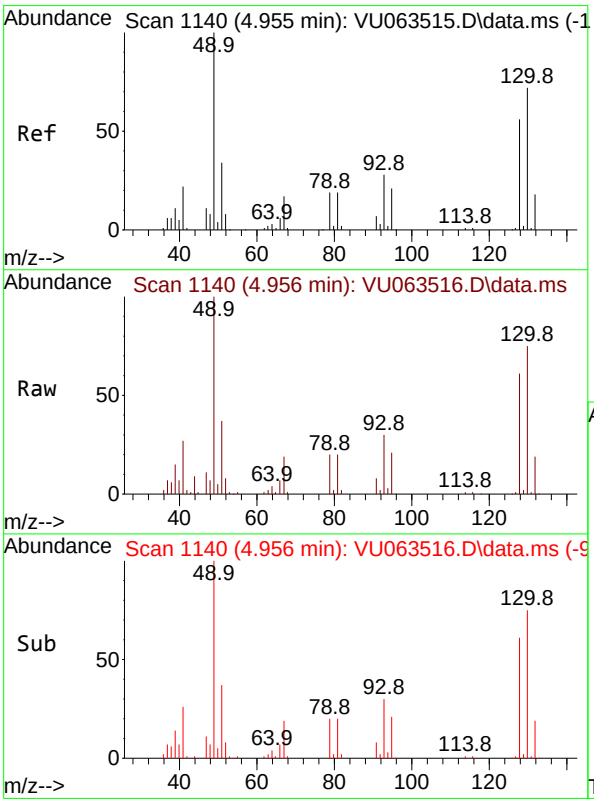
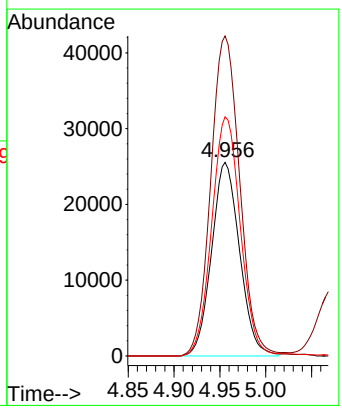


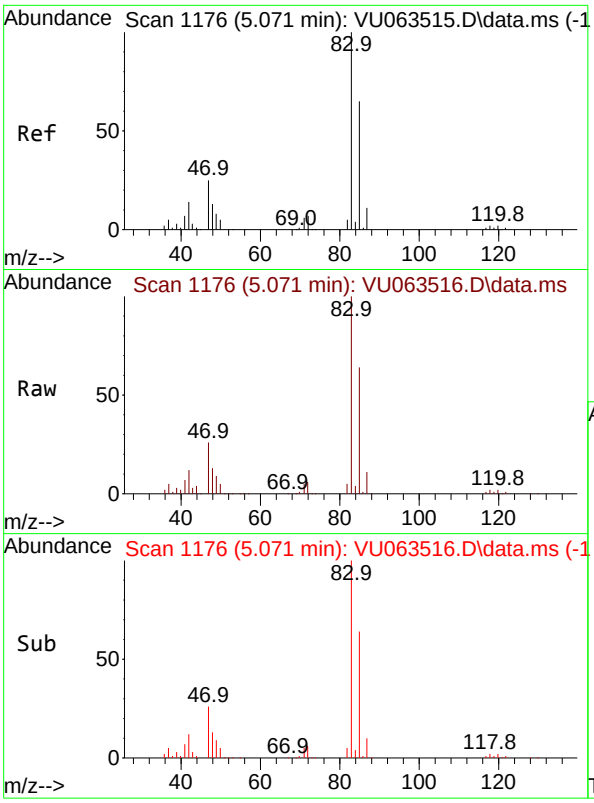


#26
Bromochloromethane
Concen: 16.299 ug/l
RT: 4.956 min Scan# 1140
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:128 Resp: 54202

Ion	Ratio	Lower	Upper
128	100		
49	170.9	0.0	340.8
130	127.0	100.5	150.7

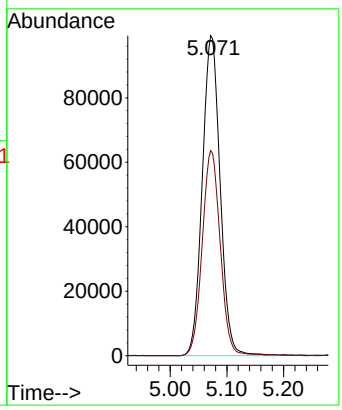




#27
Chloroform
Concen: 15.691 ug/l
RT: 5.071 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 83 Resp: 21782

Ion	Ratio	Lower	Upper
83	100		
85	64.1	0.0	130.0



Instrument :
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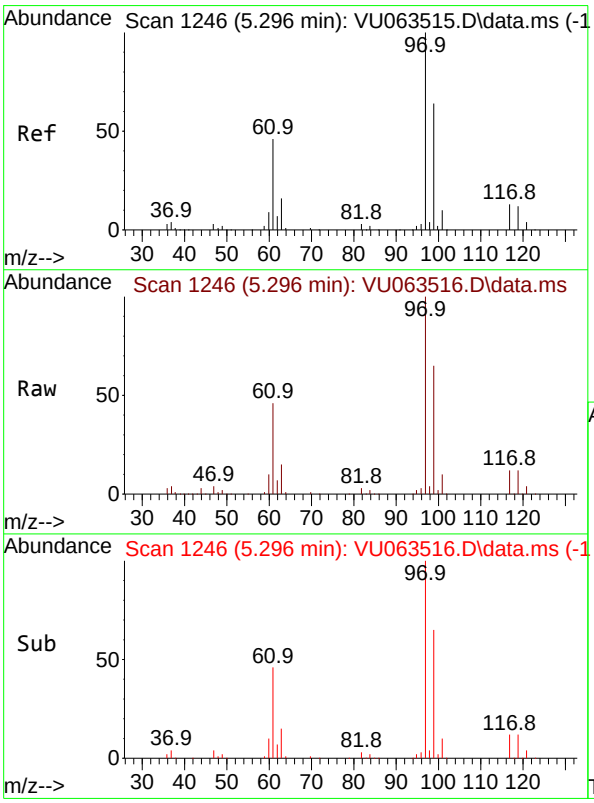
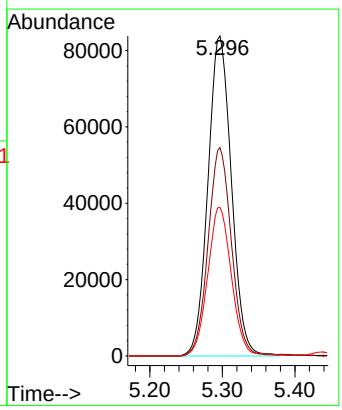
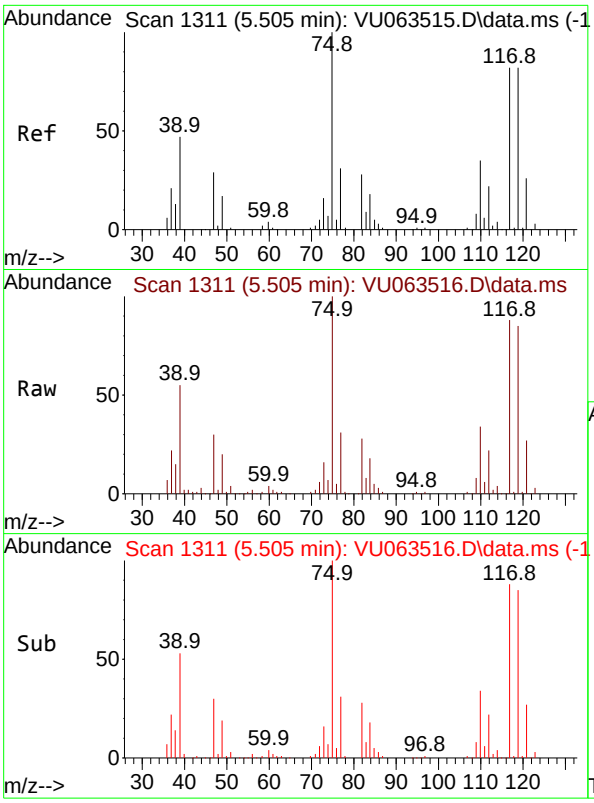


#28
1,1,1-Trichloroethane
Concen: 16.005 ug/l
RT: 5.296 min Scan# 1246
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 97 Resp: 188574

Ion	Ratio	Lower	Upper
97	100		
99	64.7	31.8	95.3
61	46.7	23.3	69.9

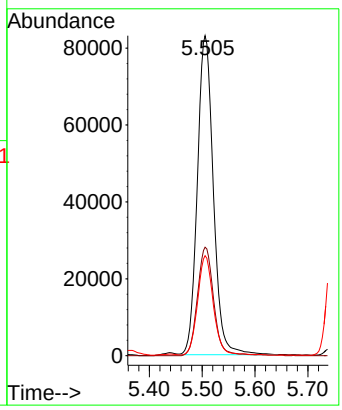




#29
1,1-Dichloropropene
Concen: 16.004 ug/l
RT: 5.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 75 Resp: 17467

Ion	Ratio	Lower	Upper
75	100		
110	34.3	17.8	53.4
77	30.1	24.6	37.0



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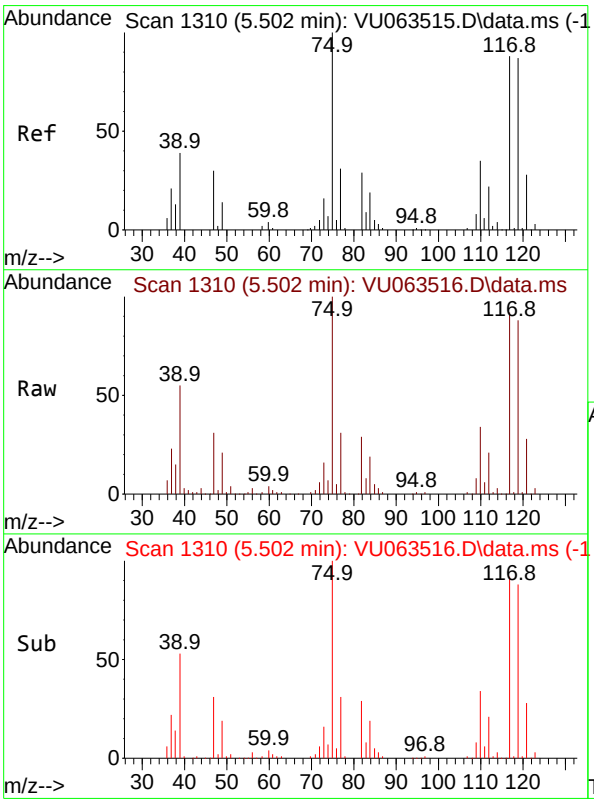
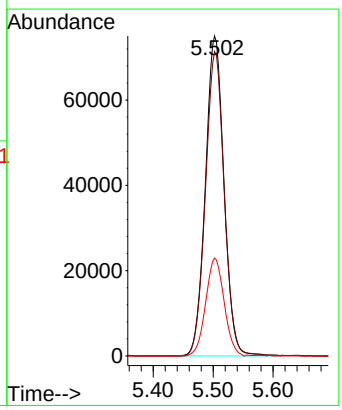
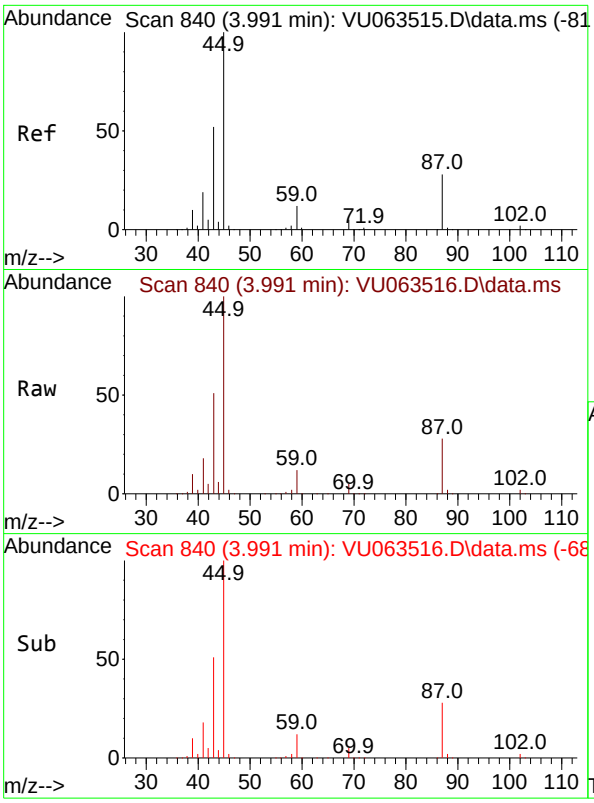


#30
Carbon Tetrachloride
Concen: 17.113 ug/l
RT: 5.502 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:117 Resp: 162285

Ion	Ratio	Lower	Upper
117	100		
119	95.1	79.2	118.8
121	30.6	25.5	38.3

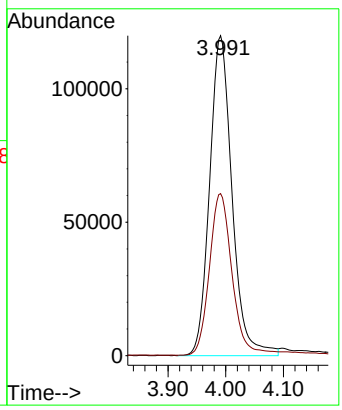




#31
Isopropyl Ether
Concen: 15.772 ug/l
RT: 3.991 min Scan# 84
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 45 Resp: 32387

Ion	Ratio	Lower	Upper
45	100		
43	52.5	25.7	77.0



Instrument :
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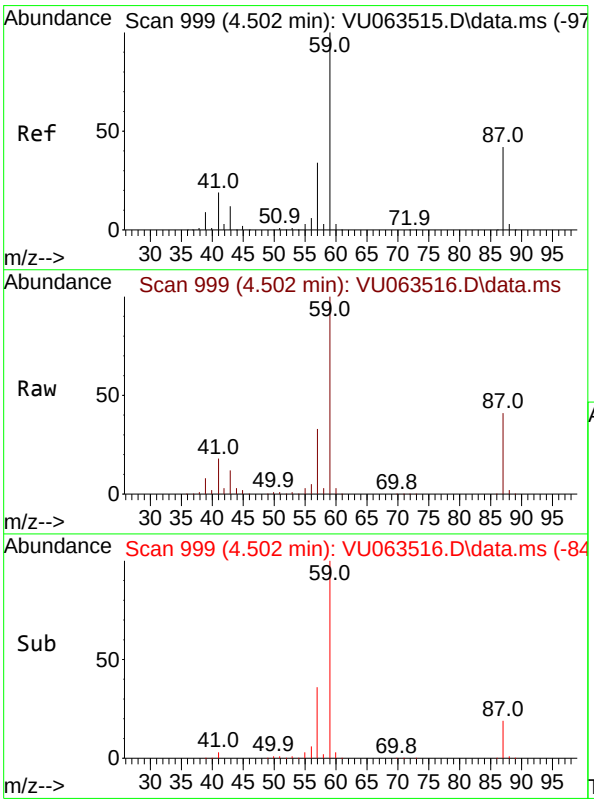
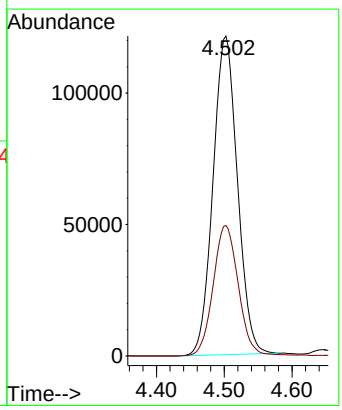
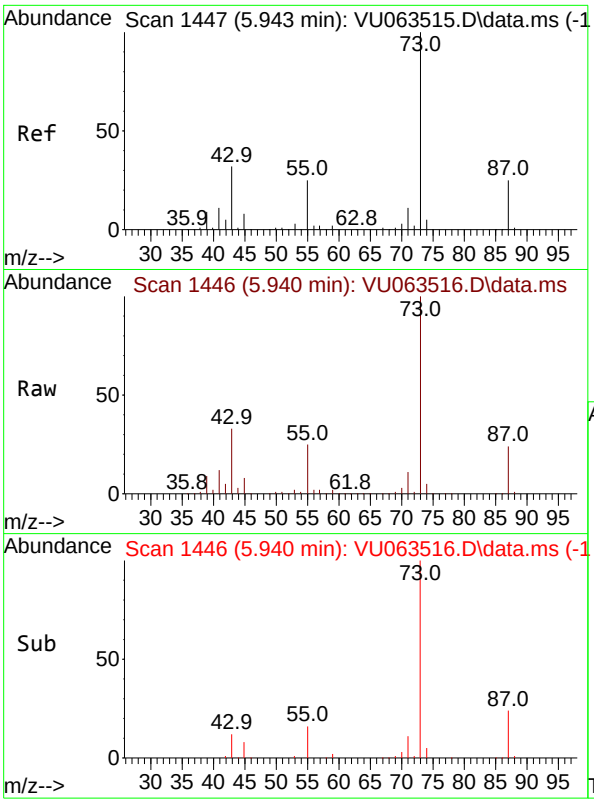


#32
Ethyl-t-butyl ether
Concen: 15.939 ug/l
RT: 4.502 min Scan# 999
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 59 Resp: 302903

Ion	Ratio	Lower	Upper
59	100		
87	41.8	32.6	49.0

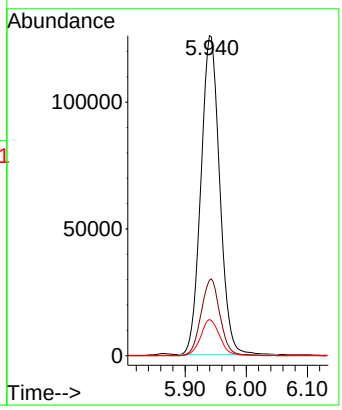




#33
Tert-Amyl methyl ether
Concen: 16.283 ug/l
RT: 5.940 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 73 Resp: 26856

Ion	Ratio	Lower	Upper
73	100		
87	24.0	19.4	29.2
71	11.5	8.9	13.3



Instrument :
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ClientSampleId :
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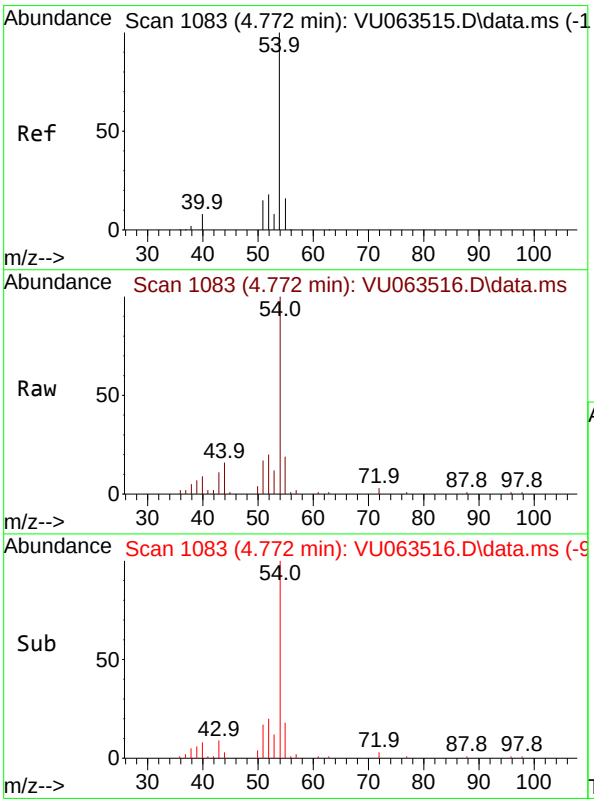
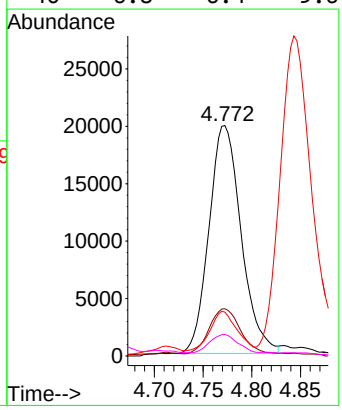
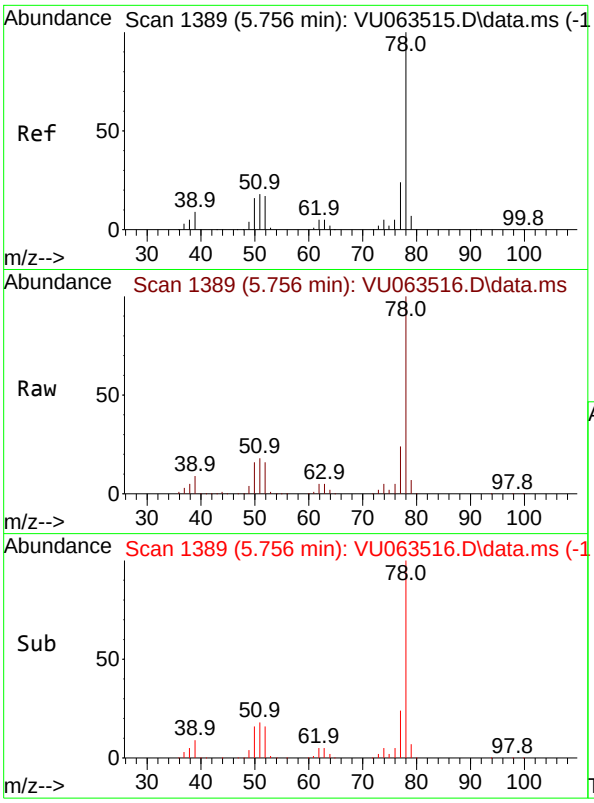


#34
Propionitrile
Concen: 74.722 ug/l
RT: 4.772 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 54 Resp: 45659

Ion	Ratio	Lower	Upper
54	100		
52	19.3	17.0	25.4
55	16.3	13.6	20.4
40	6.8	6.4	9.6





#35
Benzene
Concen: 16.153 ug/l
RT: 5.756 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 78 Resp: 47368

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.4	29.2

Instrument :
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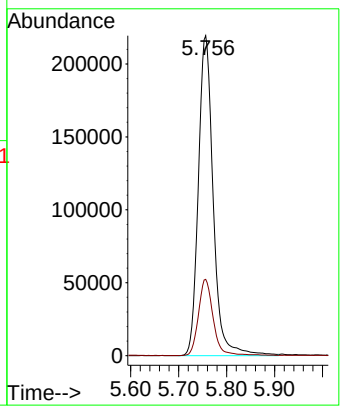
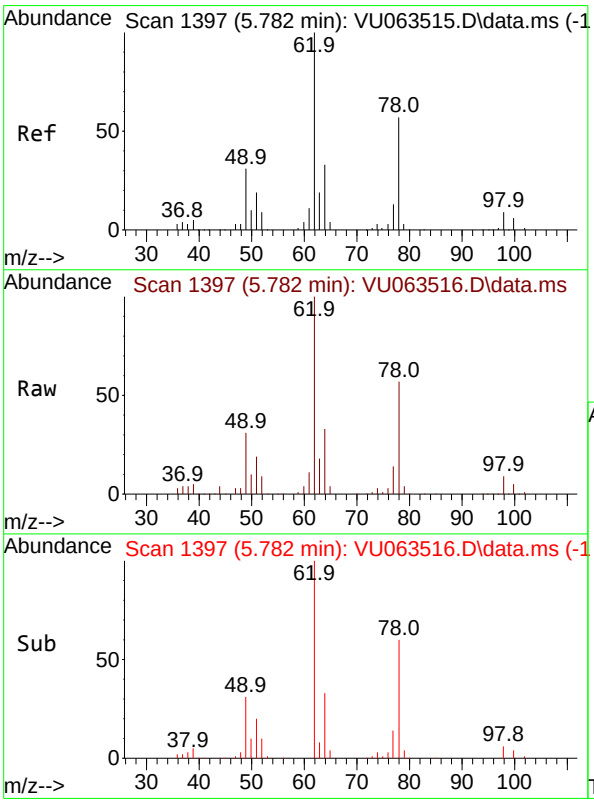
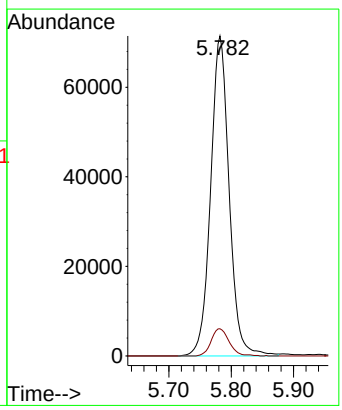


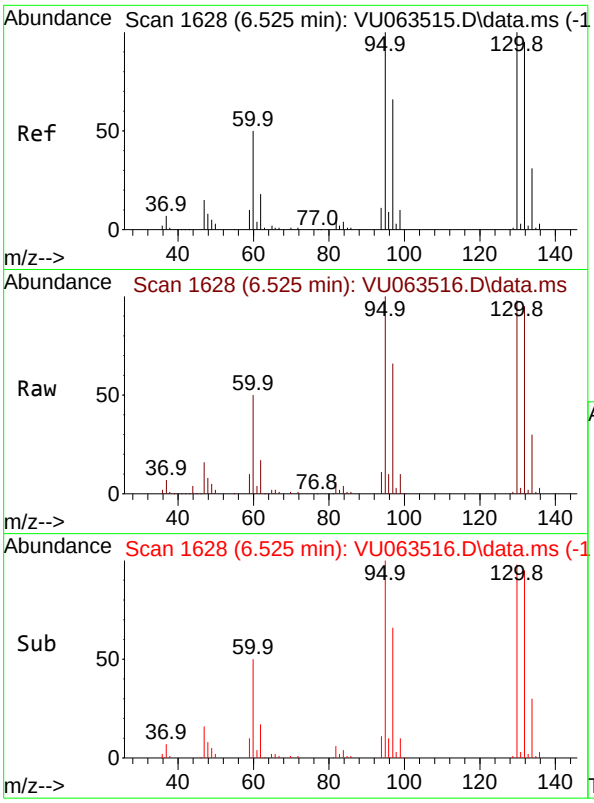


#36
1,2-Dichloroethane
Concen: 16.165 ug/l
RT: 5.782 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 62 Resp: 147295

Ion	Ratio	Lower	Upper
62	100		
98	8.3	6.4	9.6

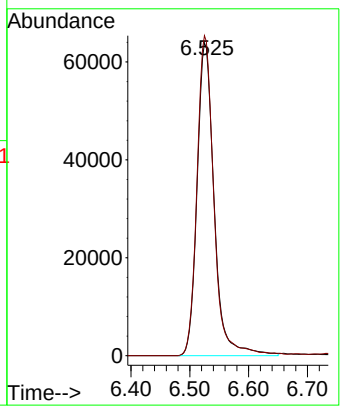




#37
Trichloroethene
Concen: 17.198 ug/l
RT: 6.525 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:130 Resp: 12867

Ion	Ratio	Lower	Upper
130	100		
95	102.3	80.3	120.5



Instrument :
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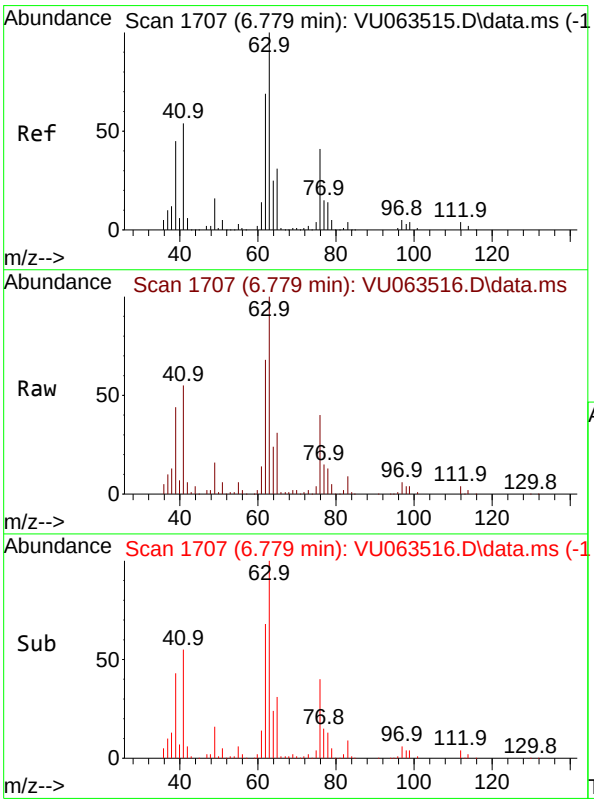
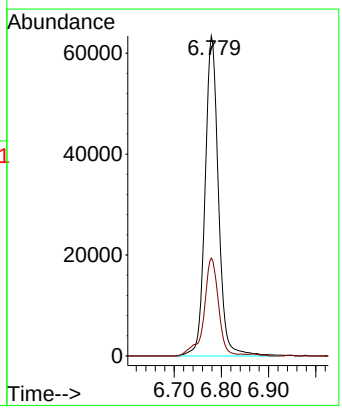
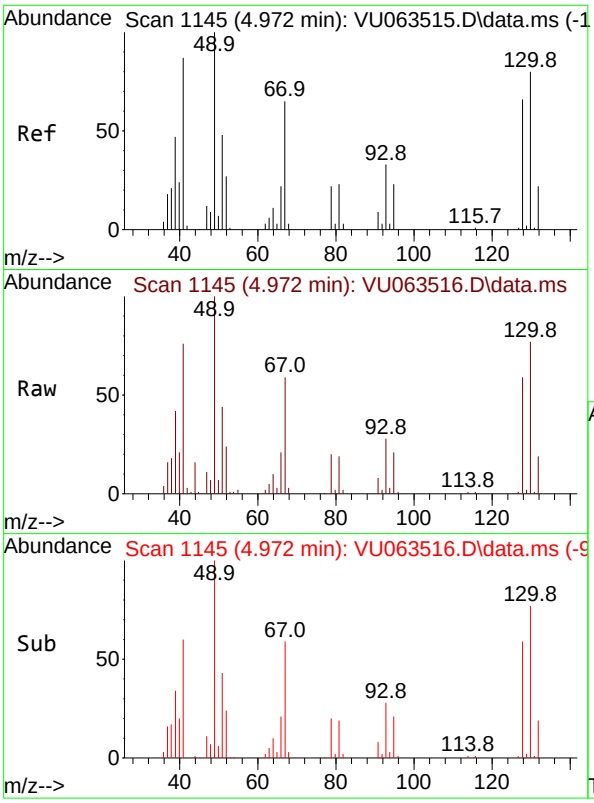


#38
1,2-Dichloropropane
Concen: 18.188 ug/l
RT: 6.779 min Scan# 1707
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 63 Resp: 124831

Ion	Ratio	Lower	Upper
63	100		
65	30.6	24.6	36.8

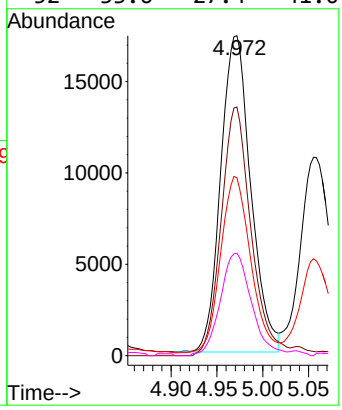




#39
Methacrylonitrile
Concen: 14.730 ug/l
RT: 4.972 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 41 Resp: 3951

Ion	Ratio	Lower	Upper
41	100		
67	77.9	62.7	94.1
39	55.8	43.1	64.7
52	33.6	27.4	41.0



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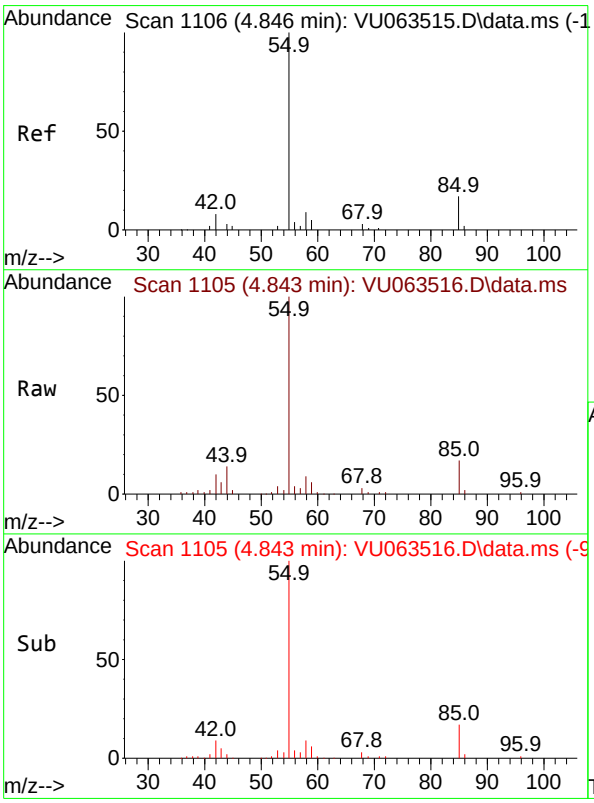
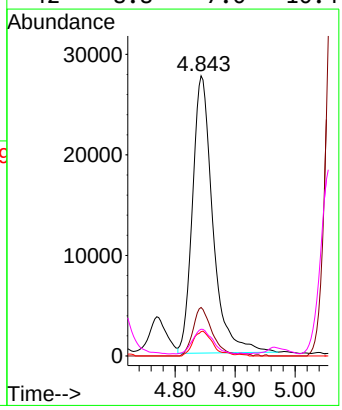
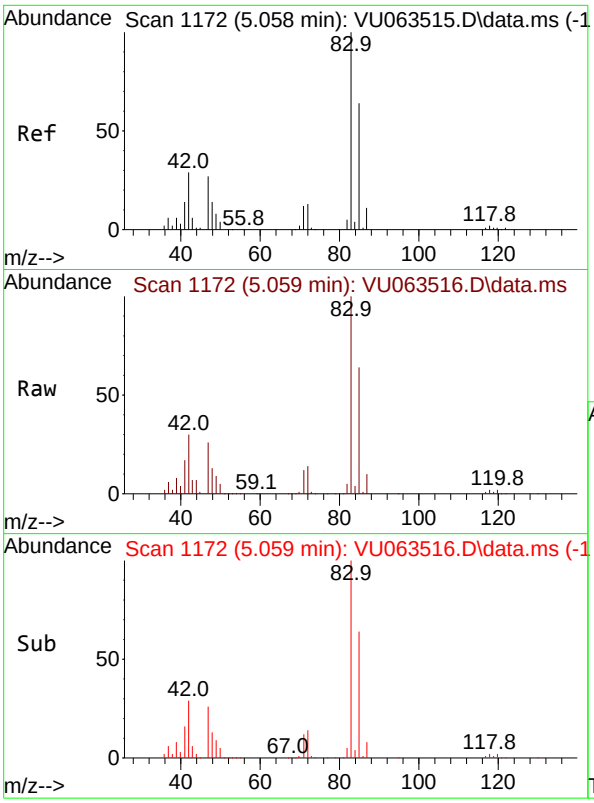


#40
Methyl acrylate
Concen: 16.402 ug/l
RT: 4.843 min Scan# 1105
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 55 Resp: 65123

Ion	Ratio	Lower	Upper
55	100		
85	16.8	12.8	19.2
58	8.7	7.0	10.4
42	8.8	7.0	10.4

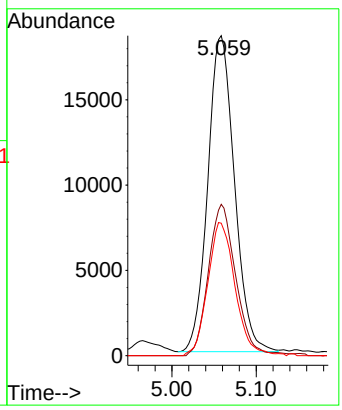




#41
Tetrahydrofuran
Concen: 28.595 ug/l
RT: 5.059 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 42 Resp: 4085

Ion	Ratio	Lower	Upper
42	100		
72	49.0	39.2	58.8
71	43.0	34.8	52.2



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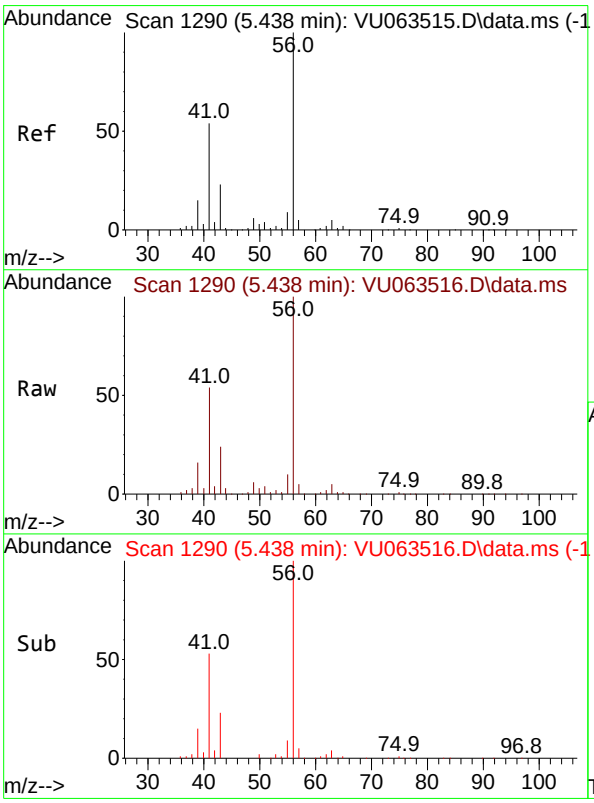
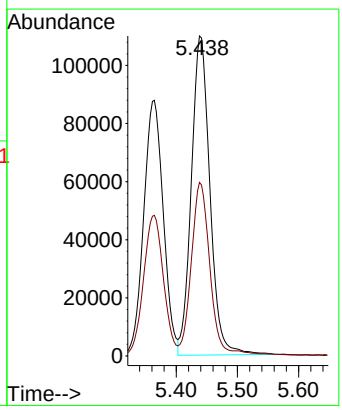
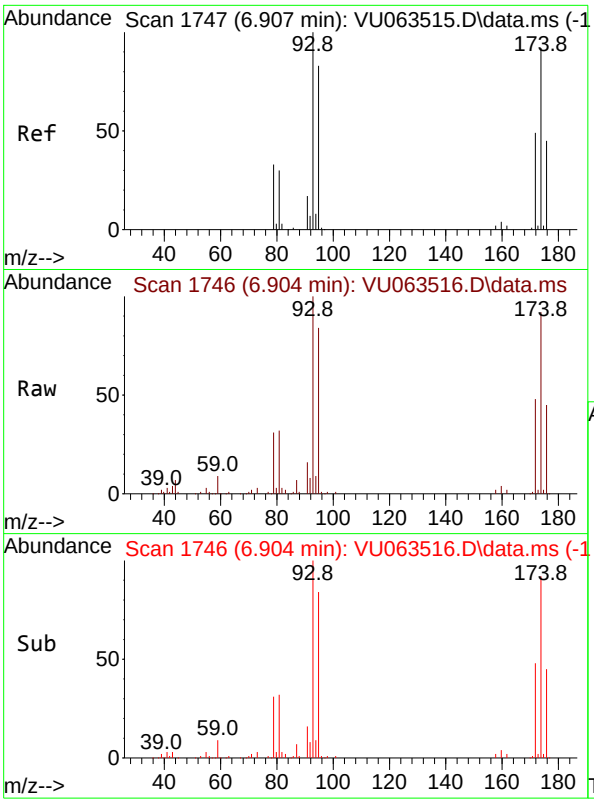


#42
1-Chlorobutane
Concen: 15.991 ug/l
RT: 5.438 min Scan# 1290
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 56 Resp: 232046

Ion	Ratio	Lower	Upper
56	100		
41	54.1	26.7	80.0

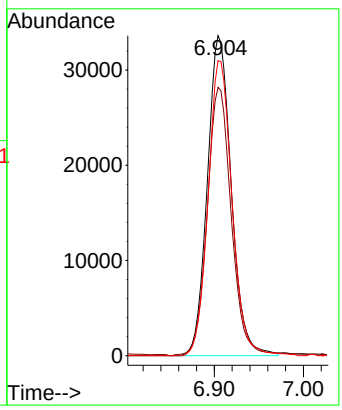




#43
Dibromomethane
Concen: 17.639 ug/l
RT: 6.904 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 93 Resp: 6271

Ion	Ratio	Lower	Upper
93	100		
95	84.7	67.9	101.9
174	92.1	74.6	111.8



Instrument :
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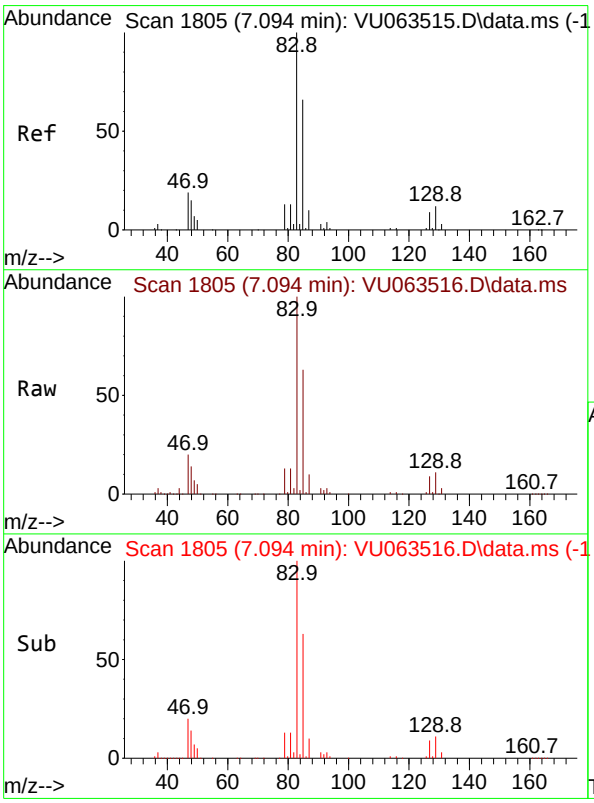
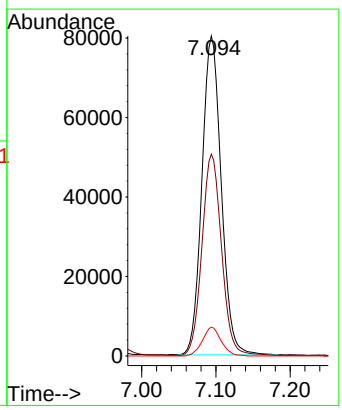
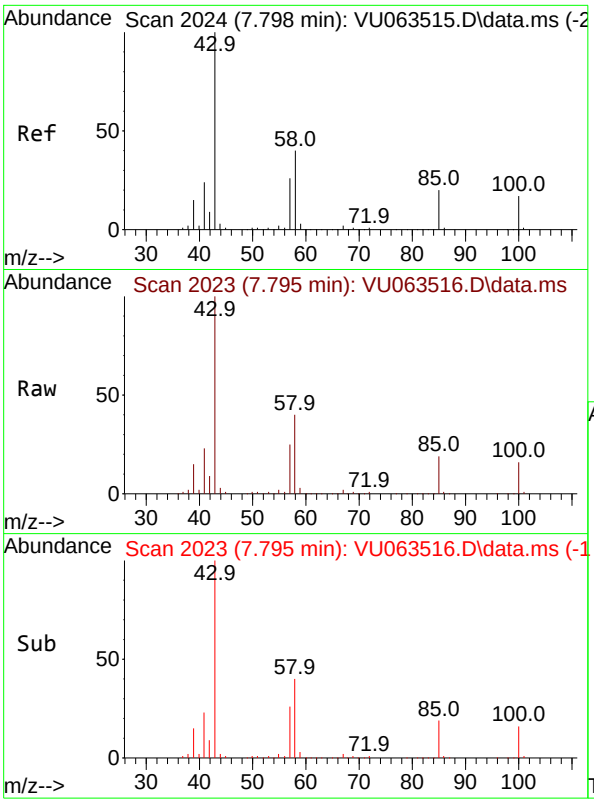


#44
Bromodichloromethane
Concen: 18.058 ug/l
RT: 7.094 min Scan# 1805
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 83 Resp: 144794

Ion	Ratio	Lower	Upper
83	100		
85	63.1	52.7	79.1
127	9.0	8.1	12.1

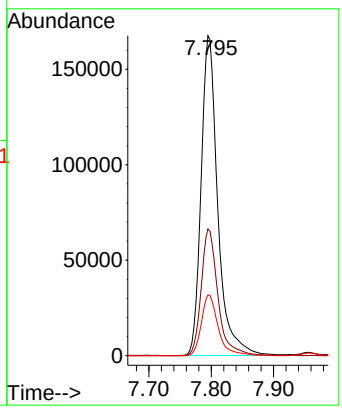




#45
4-Methyl-2-Pentanone
Concen: 84.821 ug/l
RT: 7.795 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 43 Resp: 31082

Ion	Ratio	Lower	Upper
43	100		
58	39.8	20.0	60.0
85	19.1	15.4	23.0



Instrument :
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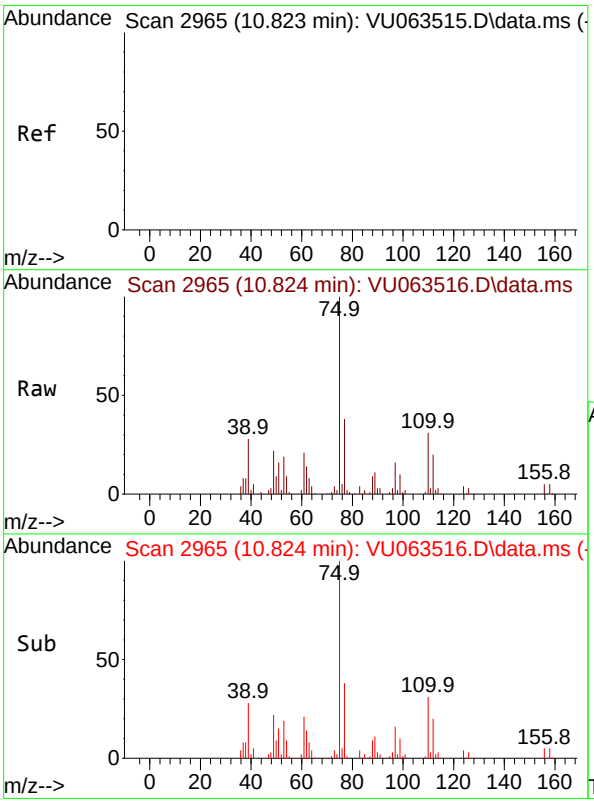
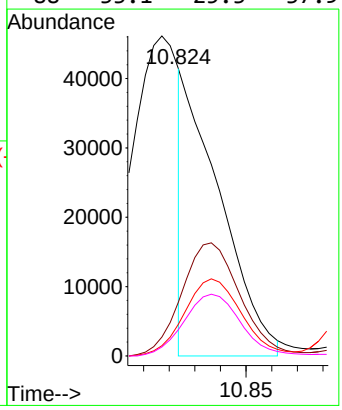
Supervised By :Semsettin Yesilyurt 07/17/2025

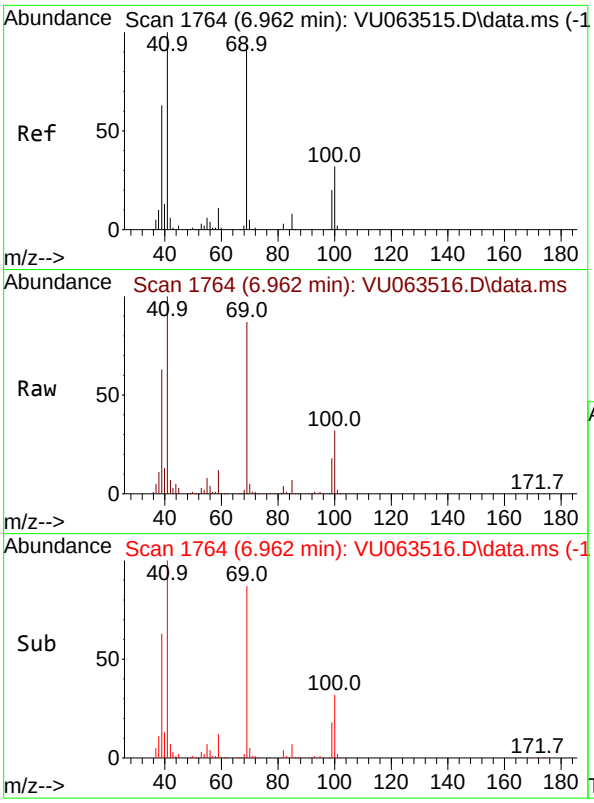


#46
t-1,4-Dichloro-2-butene
Concen: 32.085 ug/l m
RT: 10.824 min Scan# 2965
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 75 Resp: 41713

Ion	Ratio	Lower	Upper
75	100		
53	62.2	48.4	72.6
89	41.5	30.6	45.8
88	33.1	25.3	37.9

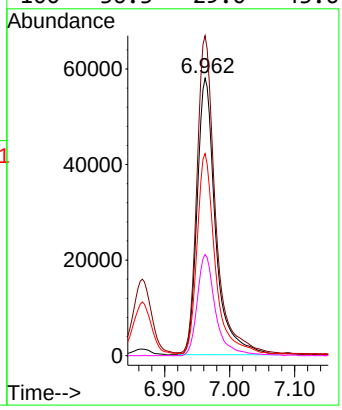




#47
Methyl methacrylate
Concen: 38.417 ug/l
RT: 6.962 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 69 Resp: 11471

Ion	Ratio	Lower	Upper
69	100		
41	114.4	0.0	224.0
39	71.0	55.3	82.9
100	36.3	29.0	43.6



Instrument :
MSVOA_U
ClientSampleId :
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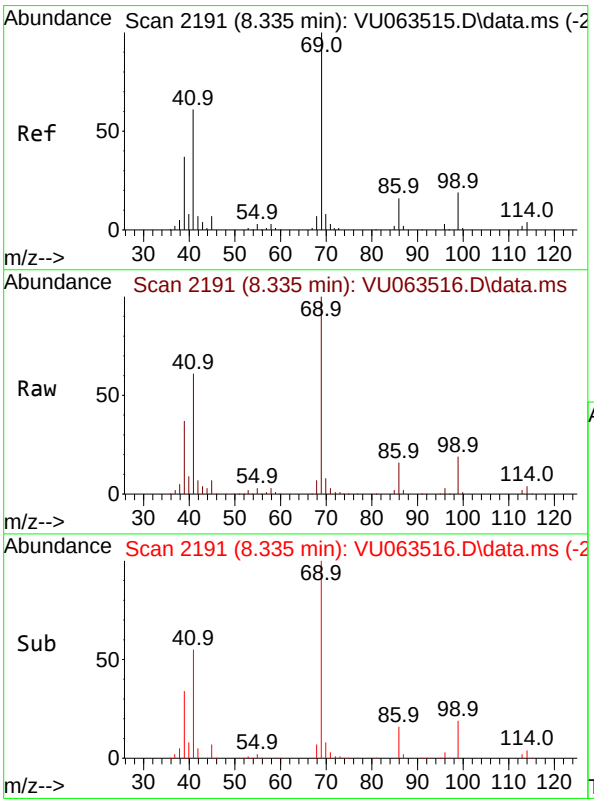
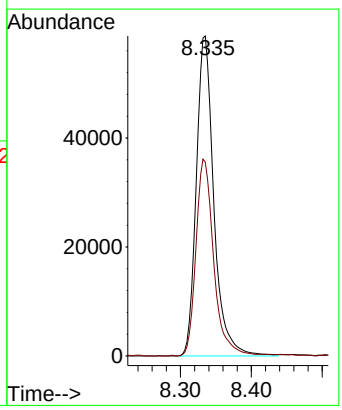
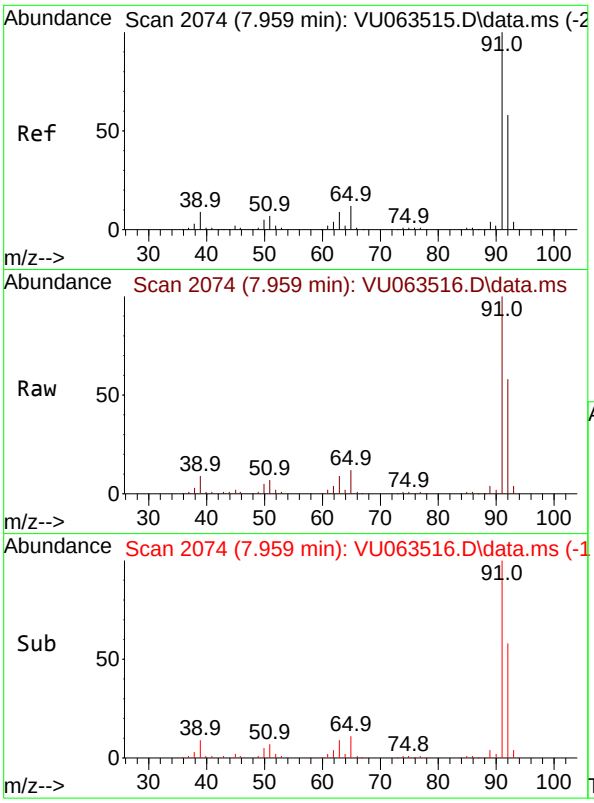


#48
Ethyl methacrylate
Concen: 17.728 ug/l
RT: 8.335 min Scan# 2191
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 69 Resp: 101021

Ion	Ratio	Lower	Upper
69	100		
41	62.2	30.8	92.4





#49
Toluene
Concen: 16.751 ug/l
RT: 7.959 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 92 Resp: 26820

Ion	Ratio	Lower	Upper
92	100		
91	173.9	140.4	210.6

Instrument :
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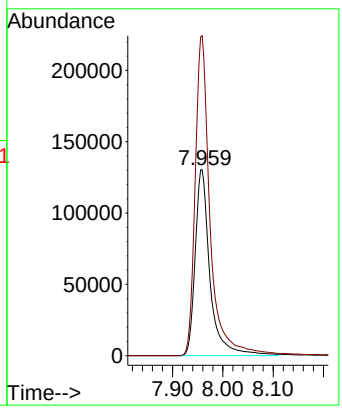
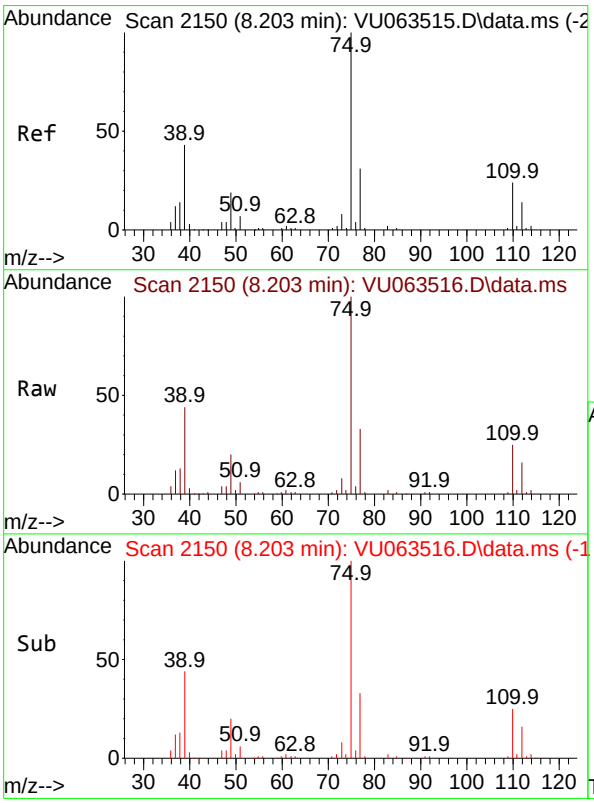
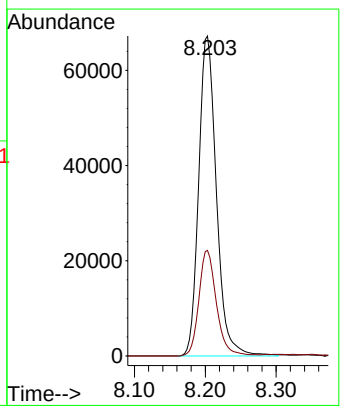


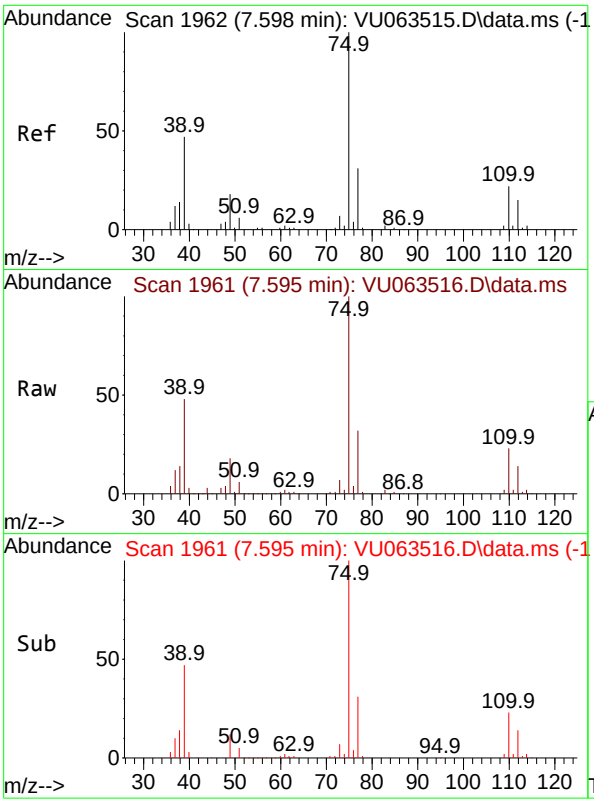


#50
t-1,3-Dichloropropene
Concen: 18.597 ug/l
RT: 8.203 min Scan# 2150
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 75 Resp: 116990

Ion	Ratio	Lower	Upper
75	100		
77	33.0	24.9	37.3

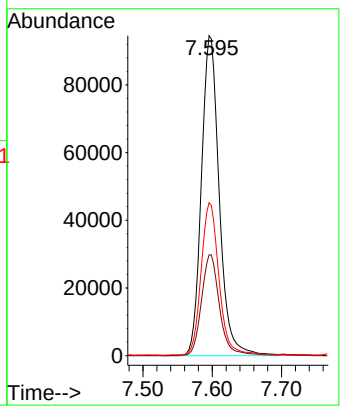




#51
cis-1,3-Dichloropropene
Concen: 20.004 ug/l
RT: 7.595 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 75 Resp: 16890

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.1	37.7
39	47.5	37.8	56.6



Instrument :
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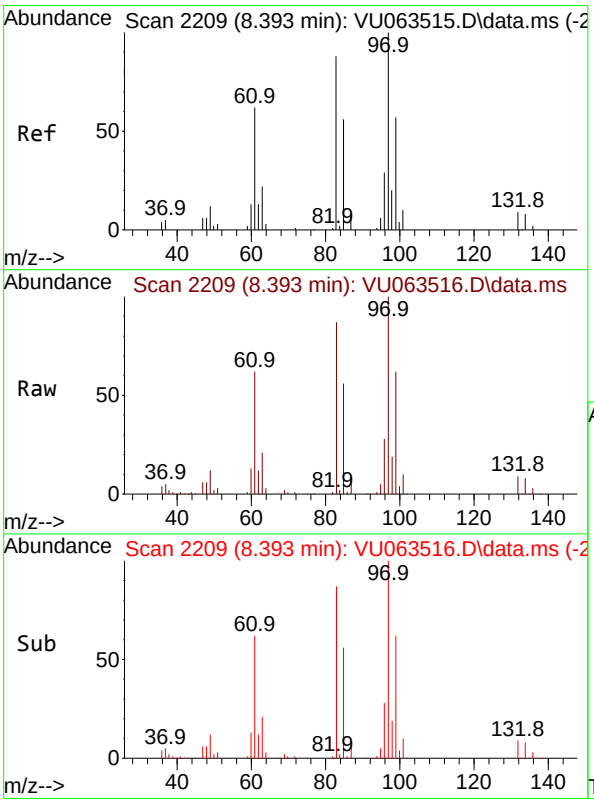
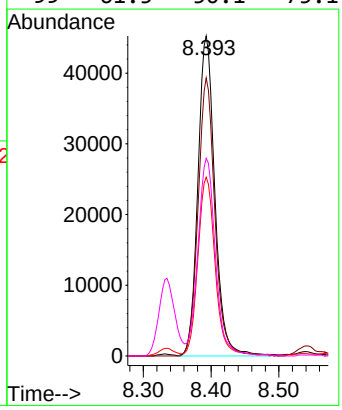
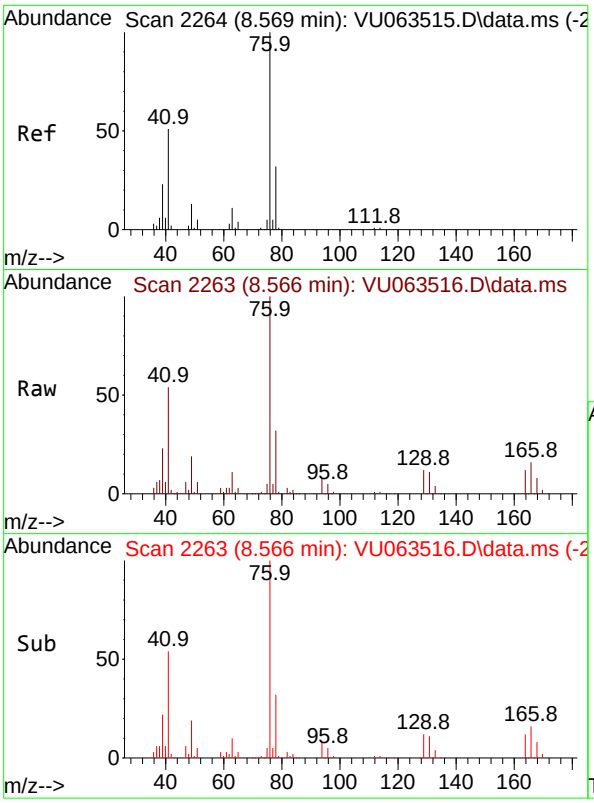


#52
1,1,2-Trichloroethane
Concen: 16.480 ug/l
RT: 8.393 min Scan# 2209
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 97 Resp: 78885

Ion	Ratio	Lower	Upper
97	100		
83	86.9	70.2	105.2
85	55.9	45.2	67.8
99	61.5	50.1	75.1





#53
1,3-Dichloropropane
Concen: 16.441 ug/l
RT: 8.566 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 76 Resp: 13586

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.0	39.0

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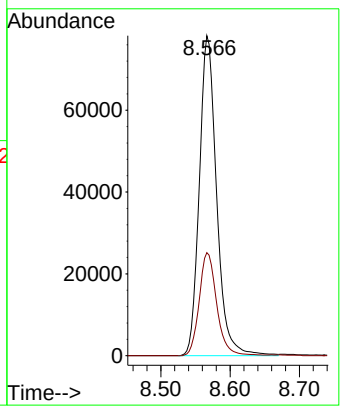
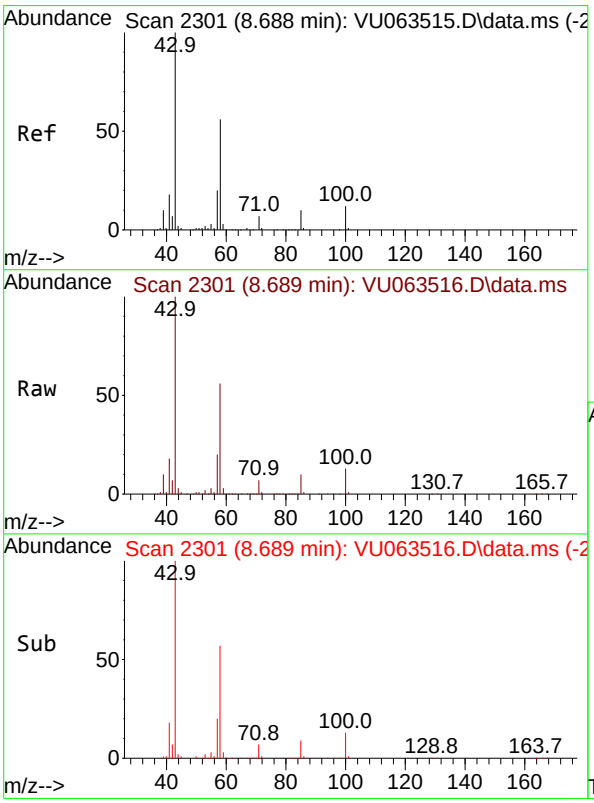
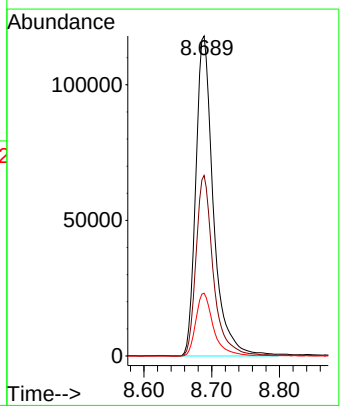


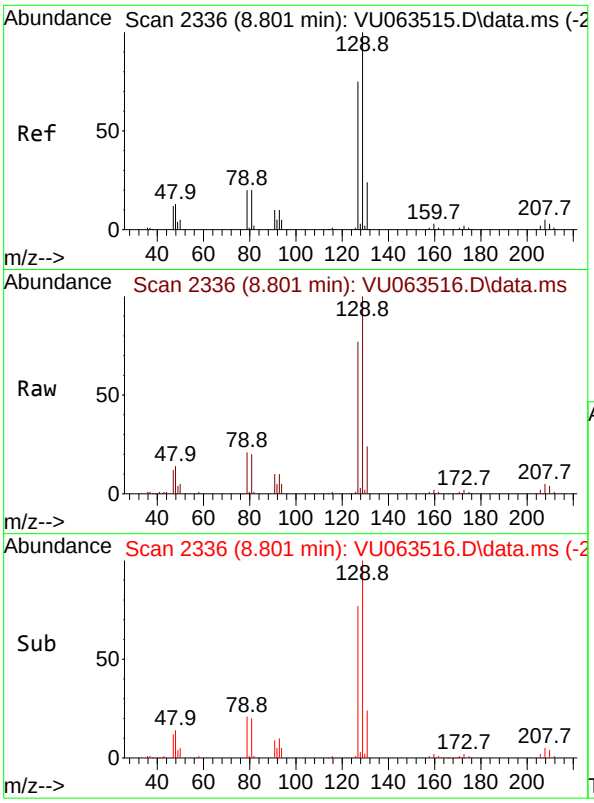


#54
2-Hexanone
Concen: 87.533 ug/l
RT: 8.689 min Scan# 2301
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 43 Resp: 213057

Ion	Ratio	Lower	Upper
43	100		
58	55.4	34.8	74.8
57	19.5	0.0	39.5

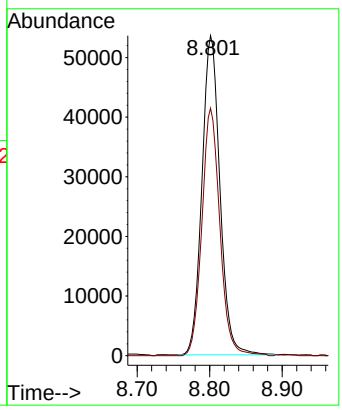




#55
Dibromochloromethane
Concen: 18.292 ug/l
RT: 8.801 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:129 Resp: 9253

Ion	Ratio	Lower	Upper
129	100		
127	77.2	60.1	90.1



Instrument :
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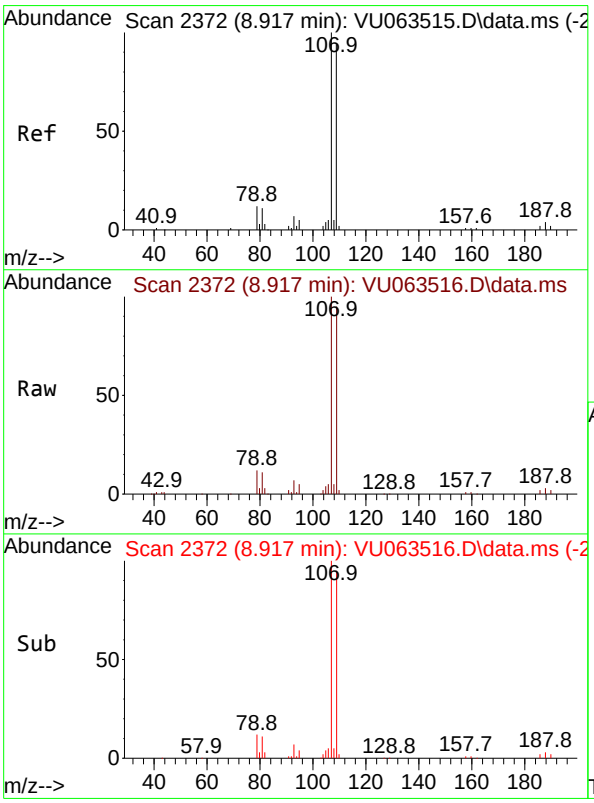
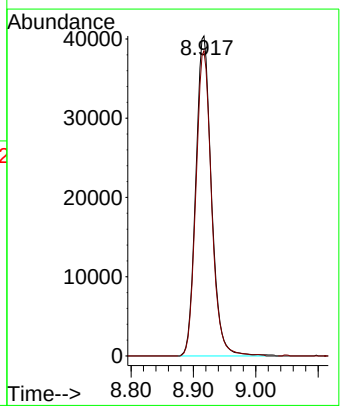
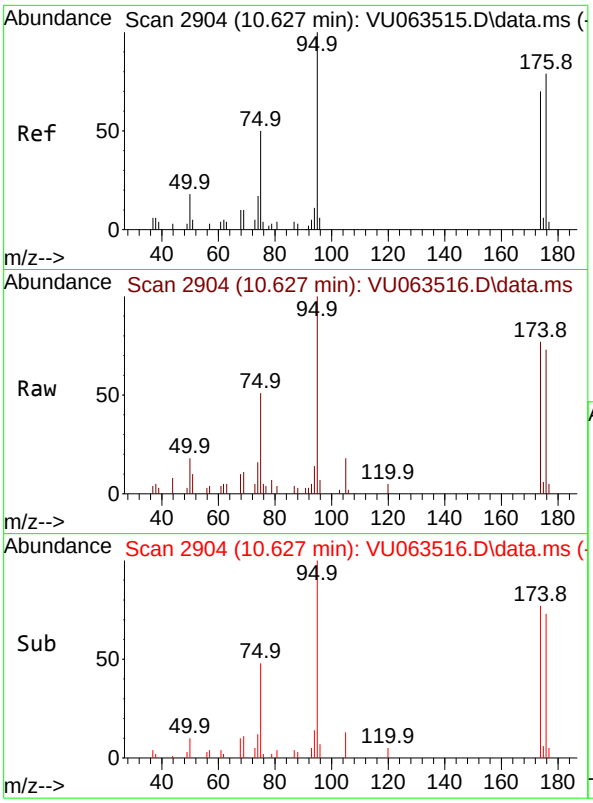


#56
1,2-Dibromoethane
Concen: 16.452 ug/l
RT: 8.917 min Scan# 2372
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:107 Resp: 70483

Ion	Ratio	Lower	Upper
107	100		
109	94.8	0.0	186.4

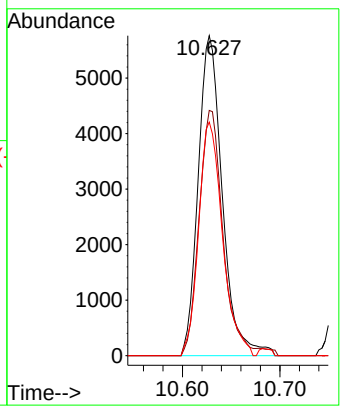




#57
4-Bromofluorobenzene
Concen: 1.051 ug/l
RT: 10.627 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 95 Resp: 990

Ion	Ratio	Lower	Upper
95	100		
174	77.1	59.8	89.8
176	72.2	61.8	92.8



Instrument :
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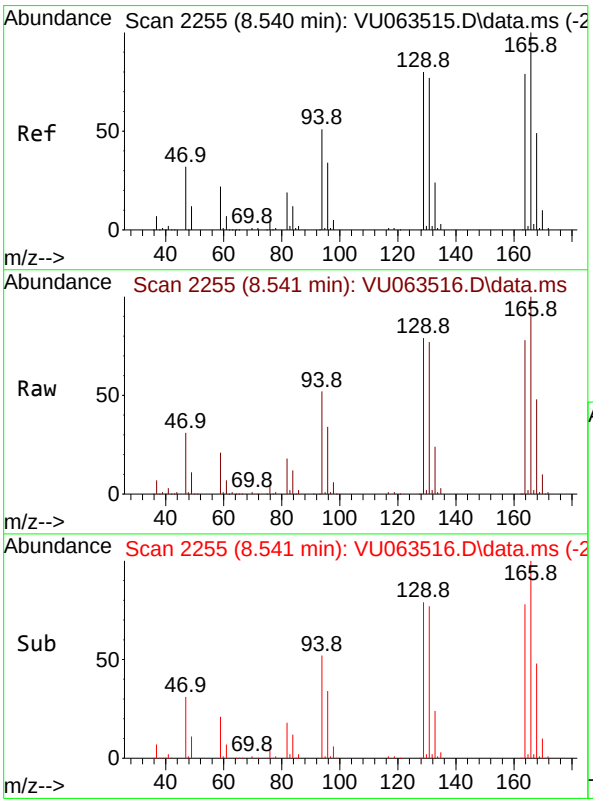
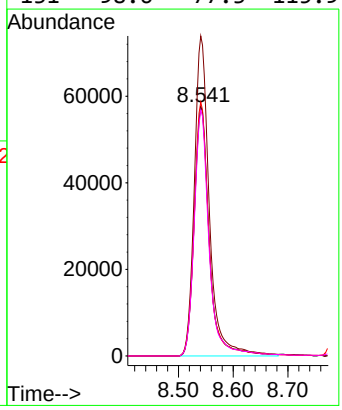
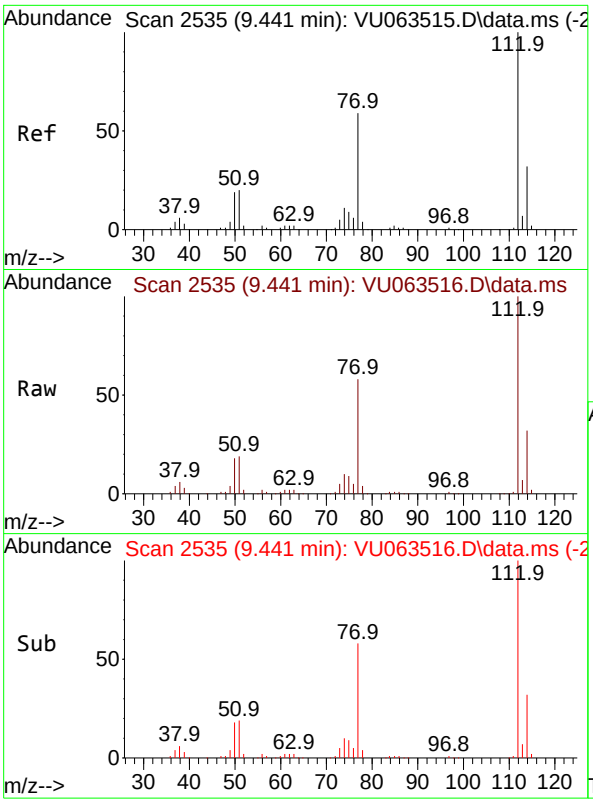


#58
Tetrachloroethene
Concen: 16.111 ug/l
RT: 8.541 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:164 Resp: 110328

Ion	Ratio	Lower	Upper
164	100		
166	128.3	100.7	151.1
129	101.8	80.6	120.8
131	98.6	77.3	115.9

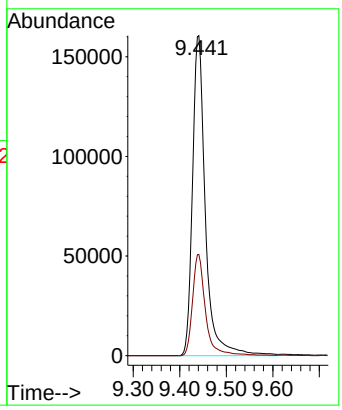




#59
Chlorobenzene
Concen: 16.822 ug/l
RT: 9.441 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:112 Resp: 30935

Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.4	38.2



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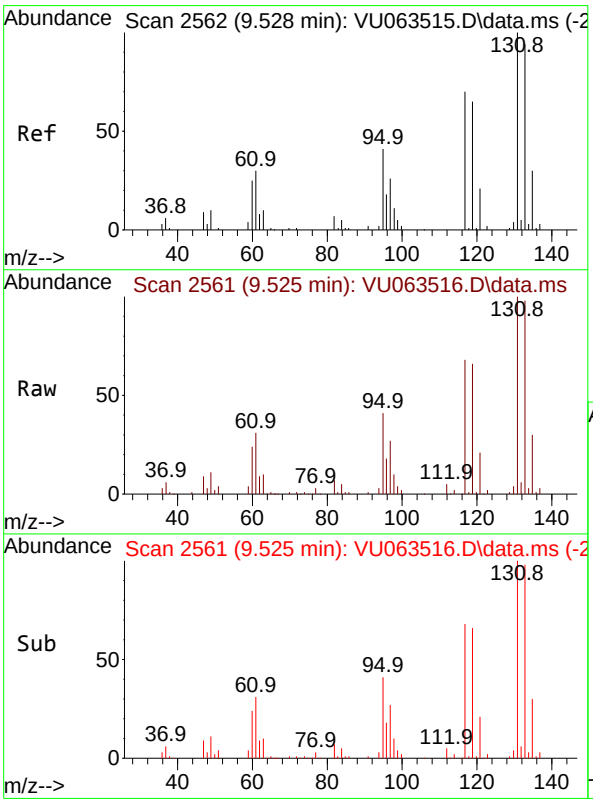
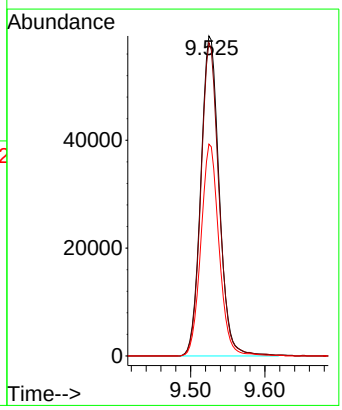
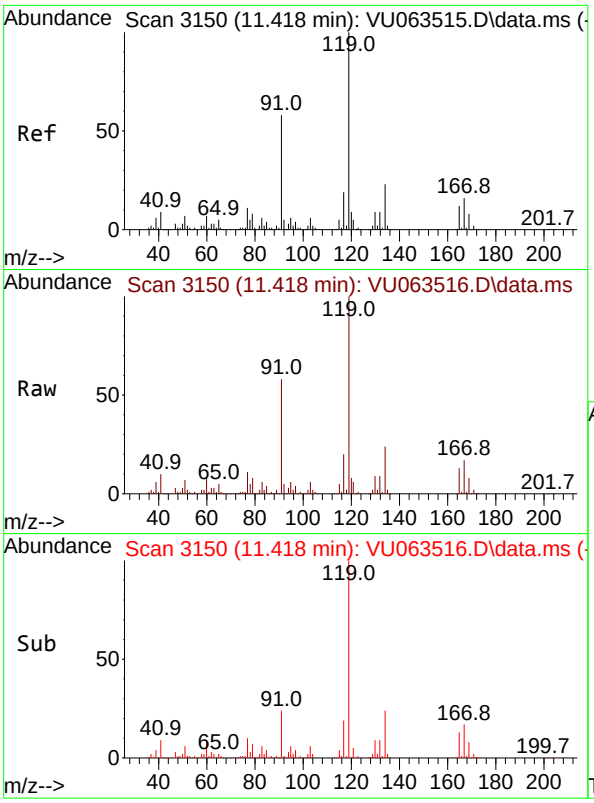


#60
1,1,1,2-Tetrachloroethane
Concen: 17.225 ug/l
RT: 9.525 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:131 Resp: 101862

Ion	Ratio	Lower	Upper
131	100		
133	96.4	74.7	112.1
119	65.3	53.0	79.4

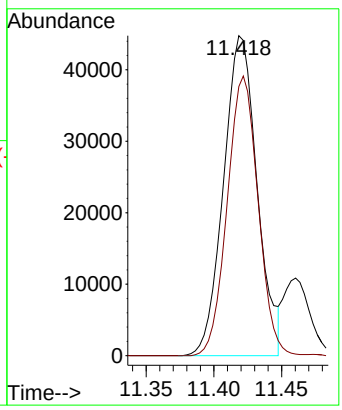




#61
Pentachloroethane
Concen: 18.487 ug/l
RT: 11.418 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:117 Resp: 7725

Ion	Ratio	Lower	Upper
117	100		
167	80.2	65.0	97.6



Instrument :
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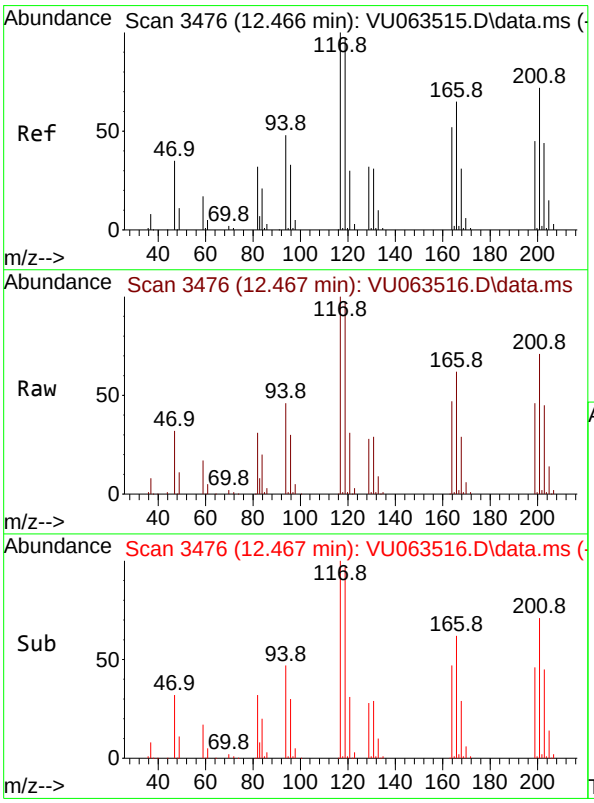
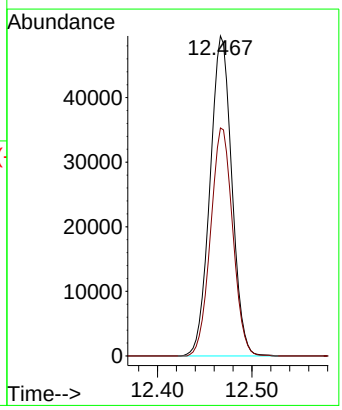
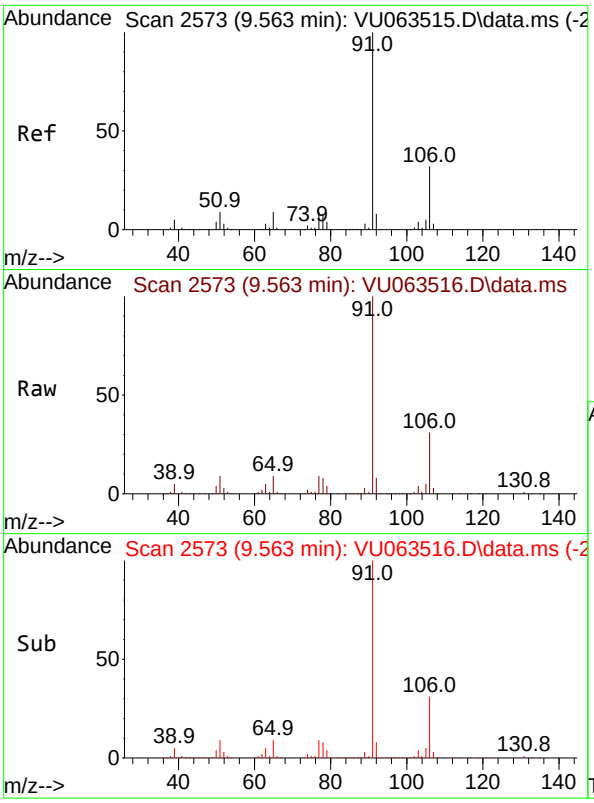


#62
Hexachloroethane
Concen: 19.195 ug/l
RT: 12.467 min Scan# 3476
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:117 Resp: 79431

Ion	Ratio	Lower	Upper
117	100		
201	72.3	57.4	86.0

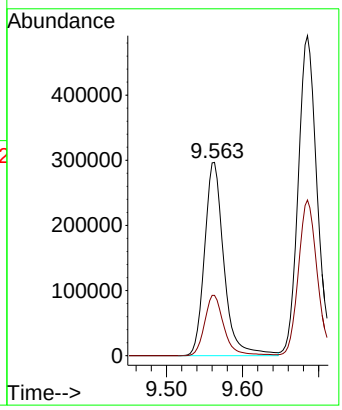




#63
Ethyl Benzene
Concen: 16.614 ug/l
RT: 9.563 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 91 Resp: 52575

Ion	Ratio	Lower	Upper
91	100		
106	31.3	25.4	38.0



Instrument :
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ClientSampleId :
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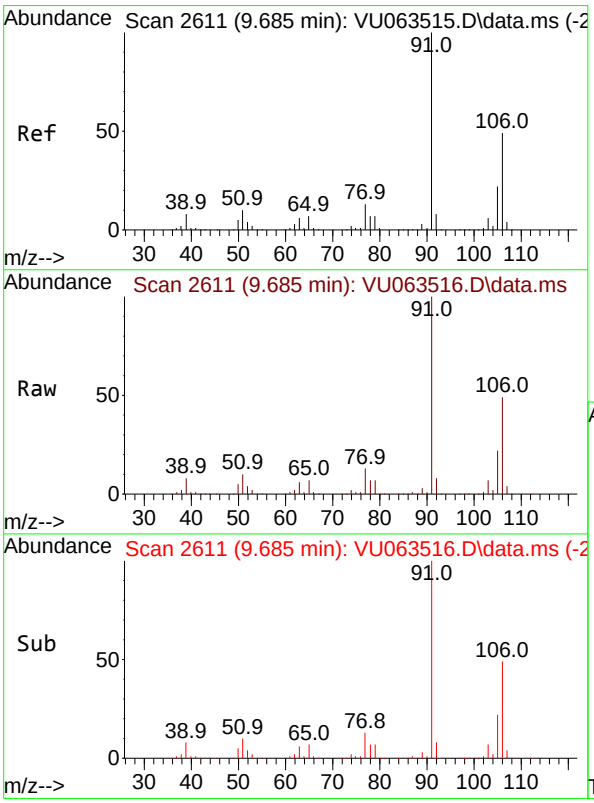
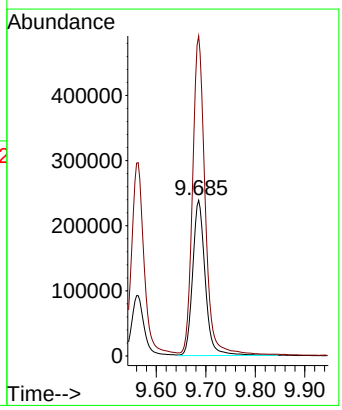
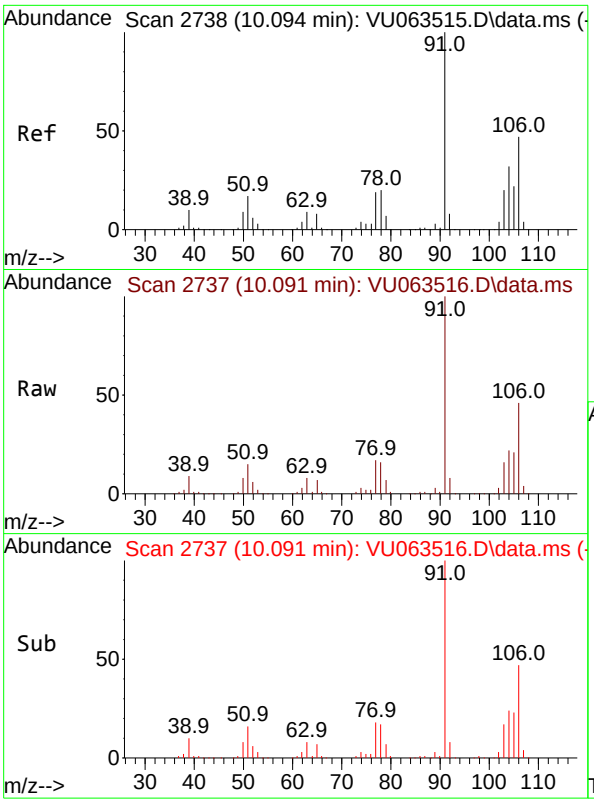


#64
m/p-Xylenes
Concen: 34.249 ug/l
RT: 9.685 min Scan# 2611
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:106 Resp: 421278

Ion	Ratio	Lower	Upper
106	100		
91	204.6	163.6	245.4

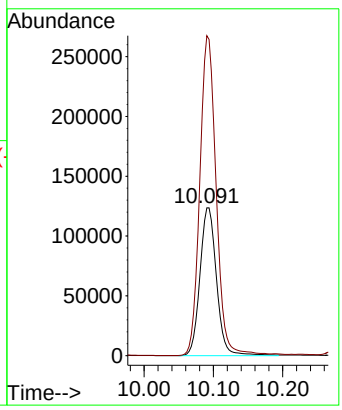




#65
o-Xylene
Concen: 17.365 ug/l
RT: 10.091 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:106 Resp: 20524

Ion	Ratio	Lower	Upper
106	100		
91	213.5	108.1	324.4



Instrument :
MSVOA_U
ClientSampleId :
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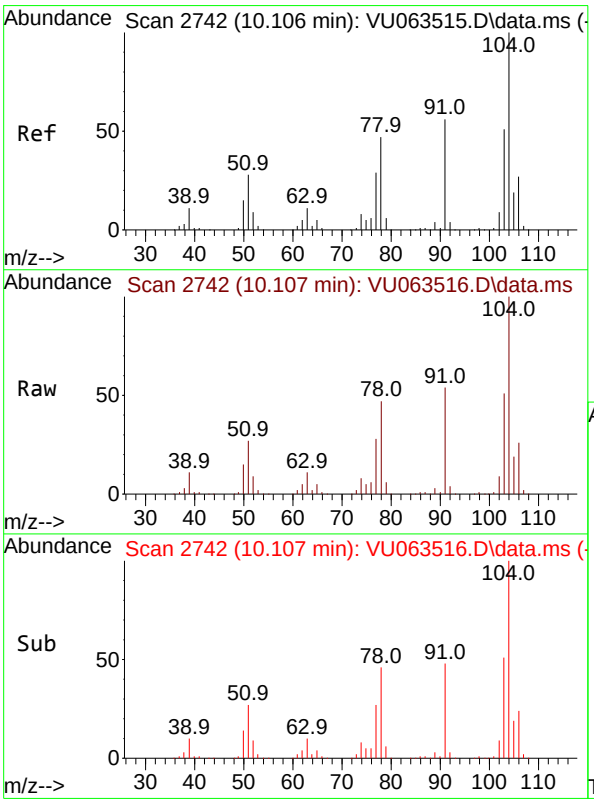
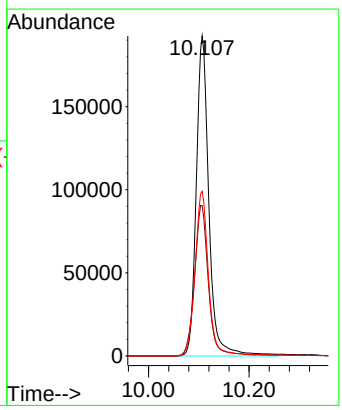
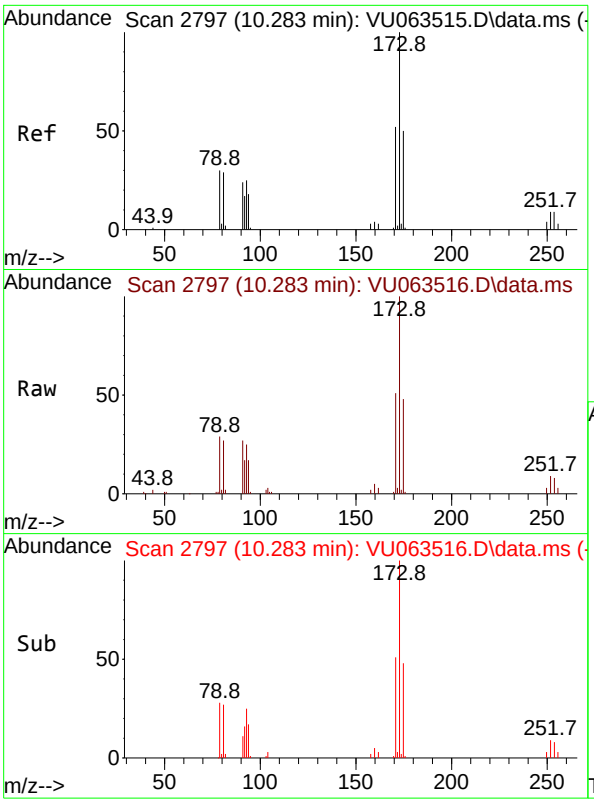


#66
Styrene
Concen: 17.837 ug/l
RT: 10.107 min Scan# 2742
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:104 Resp: 336001

Ion	Ratio	Lower	Upper
104	100		
78	51.5	41.3	61.9
103	54.8	43.6	65.4

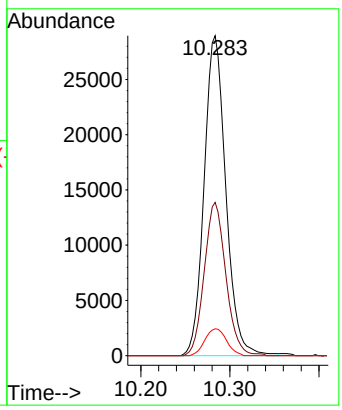




#67
Bromoform
Concen: 18.852 ug/l
RT: 10.283 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:173 Resp: 4897

Ion	Ratio	Lower	Upper
173	100		
175	47.7	39.0	58.4
254	8.4	6.5	9.7



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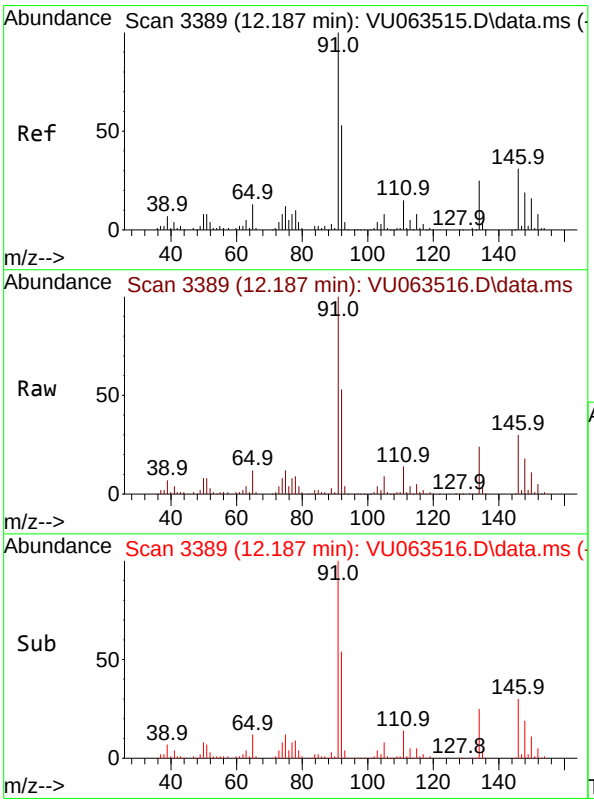
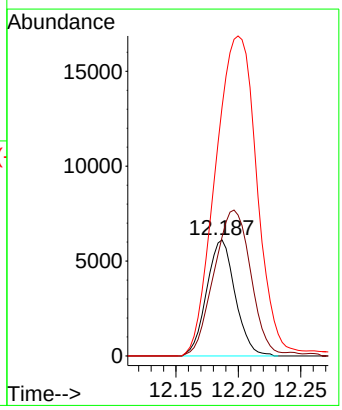
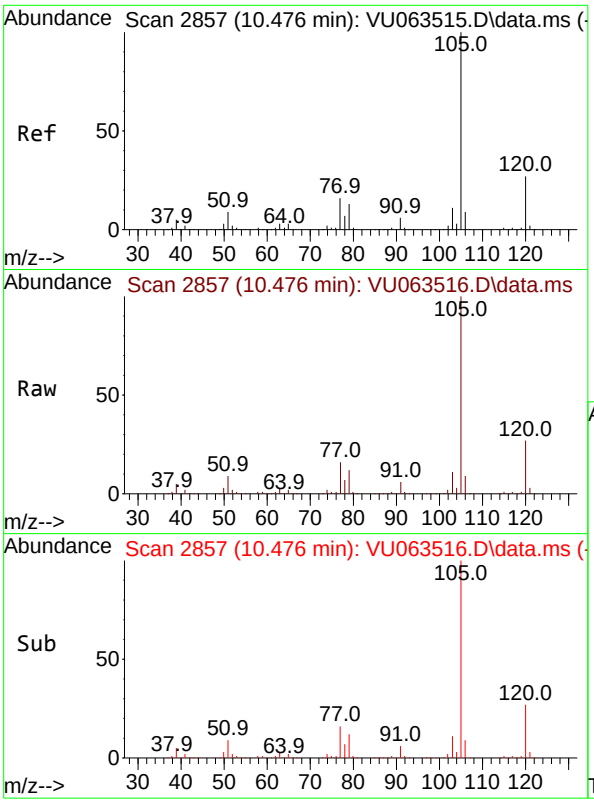


#68
1,2-Dichlorobenzene-d4
Concen: 1.118 ug/l
RT: 12.187 min Scan# 3389
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:152 Resp: 9748

Ion	Ratio	Lower	Upper
152	100		
115	162.9	0.0	262.2
150	405.8	0.0	651.2





#69
Isopropylbenzene
Concen: 17.221 ug/l
RT: 10.476 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:105 Resp: 49208

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.2	39.5

Instrument :
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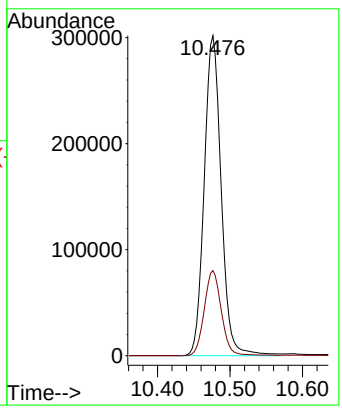
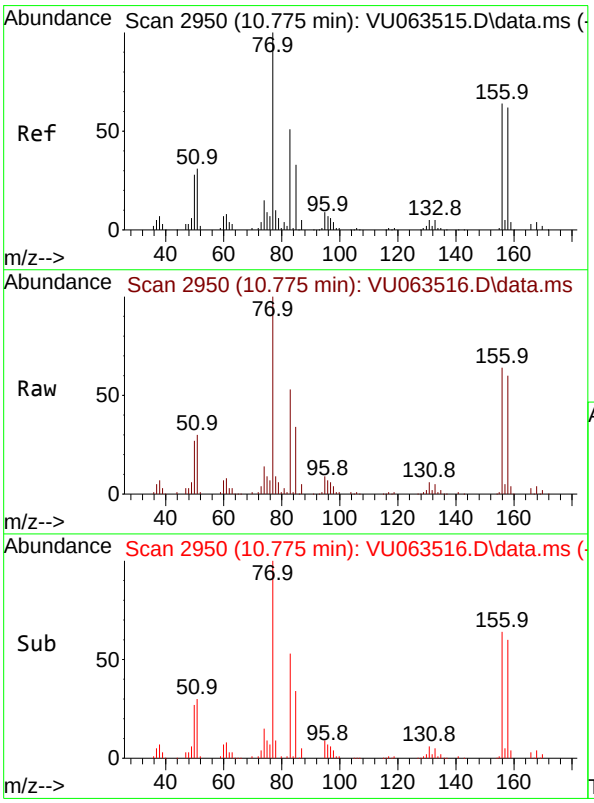
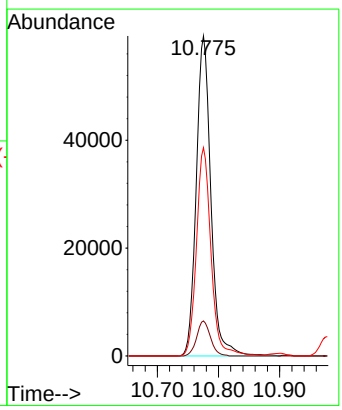


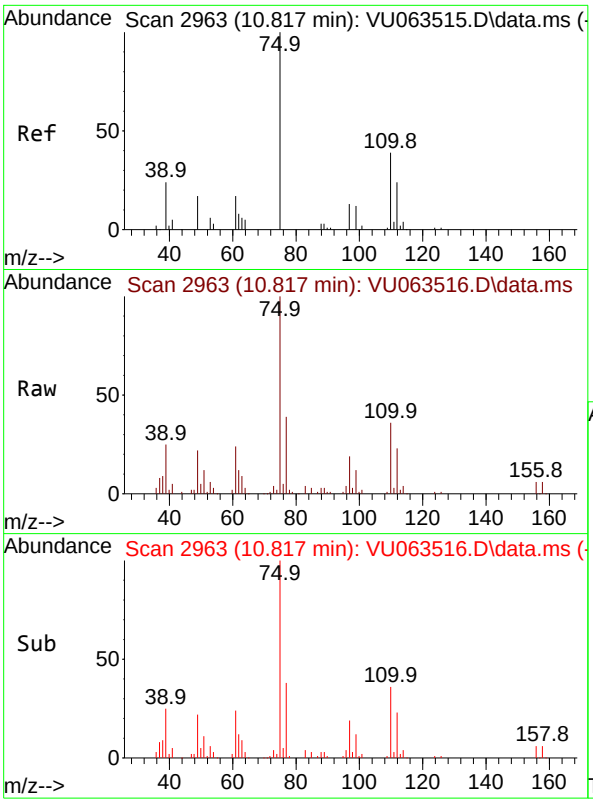


#70
1,1,2,2-Tetrachloroethane
Concen: 16.933 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 83 Resp: 98628

Ion	Ratio	Lower	Upper
83	100		
131	10.3	8.4	12.6
85	64.7	51.9	77.9

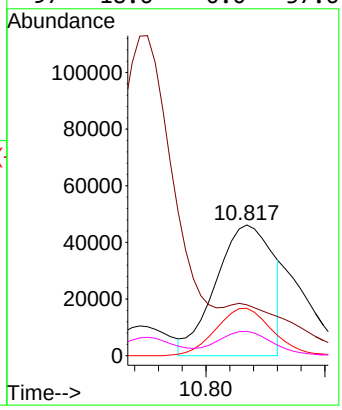




#71
1,2,3-Trichloropropane
Concen: 16.049 ug/l m
RT: 10.817 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 75 Resp: 7628

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	36.7	0.0	73.2
97	18.6	0.0	37.6



Instrument :
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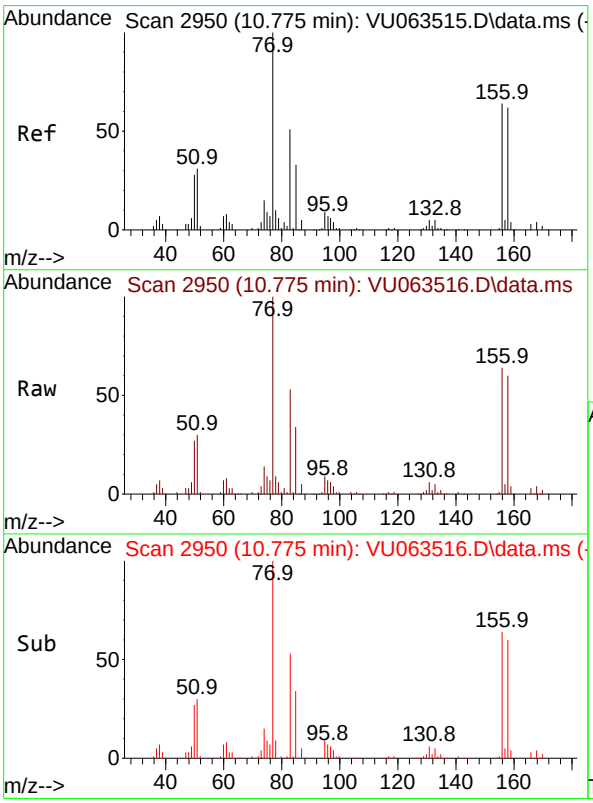
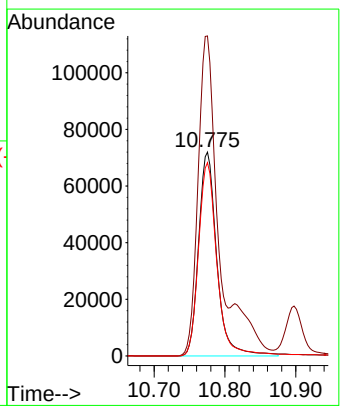
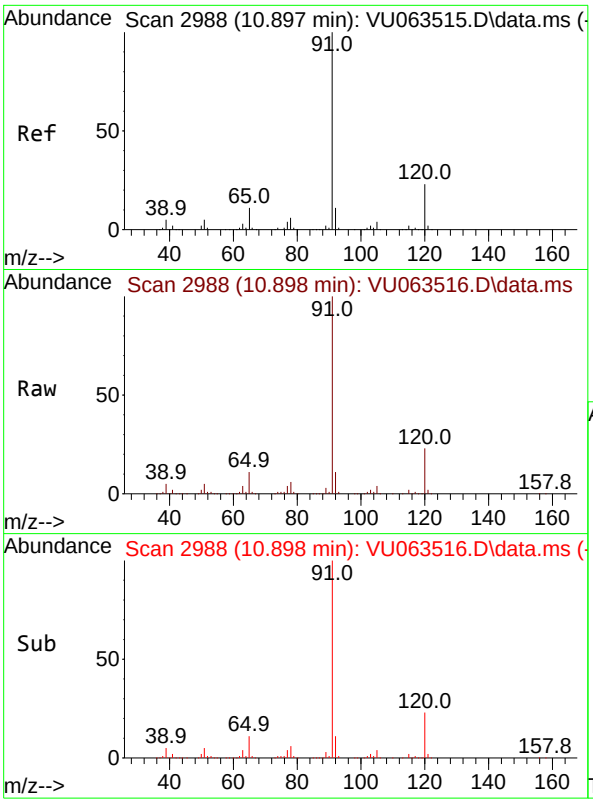


#72
Bromobenzene
Concen: 17.363 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:156 Resp: 128042

Ion	Ratio	Lower	Upper
156	100		
77	152.6	0.0	315.2
158	97.1	0.0	195.4

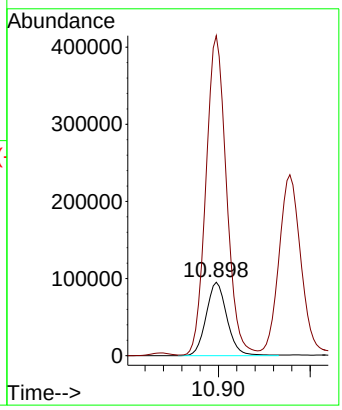




#73
n-propylbenzene
Concen: 17.433 ug/l
RT: 10.898 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:120 Resp: 14995

Ion	Ratio	Lower	Upper
120	100		
91	428.5	343.1	514.7



Instrument :
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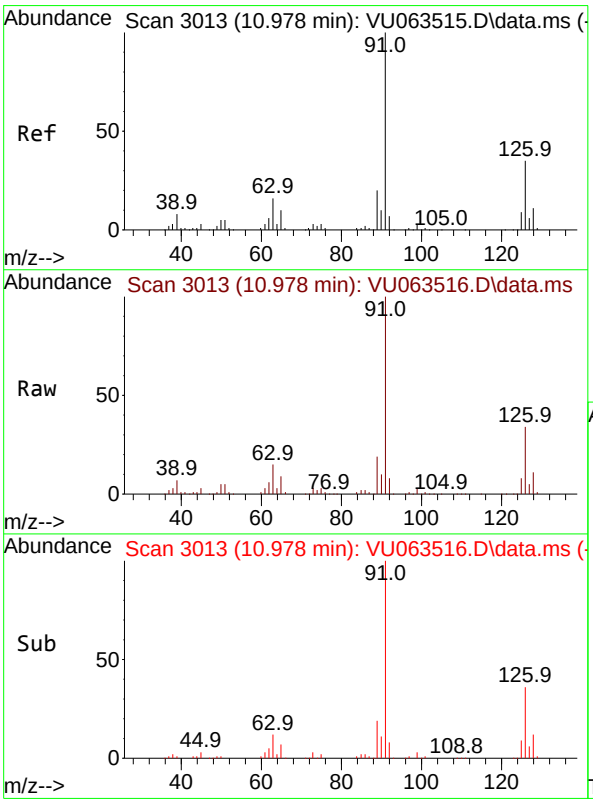
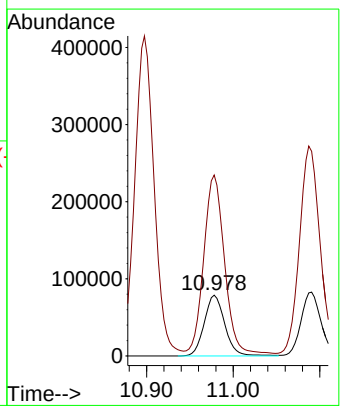
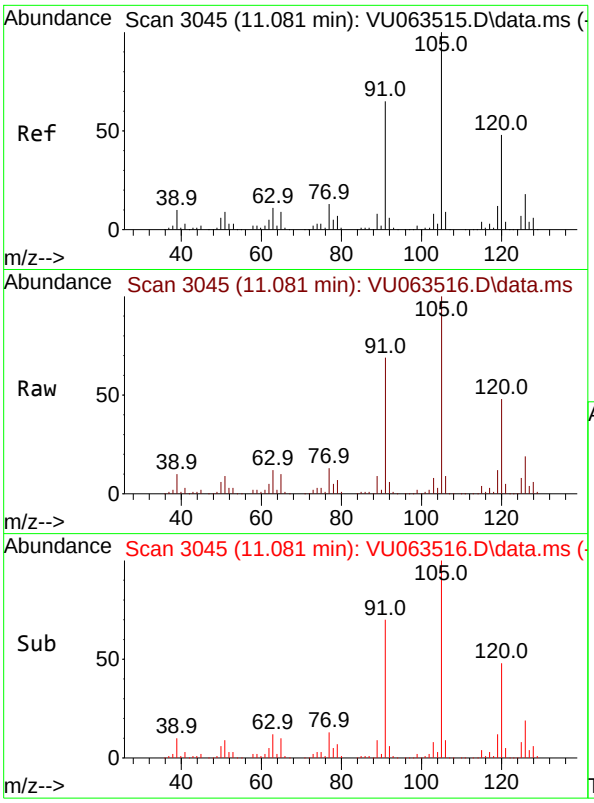


#74
2-Chlorotoluene
Concen: 17.136 ug/l
RT: 10.978 min Scan# 3013
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:126 Resp: 130274

Ion	Ratio	Lower	Upper
126	100		
91	299.6	0.0	606.0





#75
1,3,5-Trimethylbenzene
Concen: 17.511 ug/l
RT: 11.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:105 Resp: 47801

Ion	Ratio	Lower	Upper
105	100		
120	47.8	37.8	56.8

Instrument :
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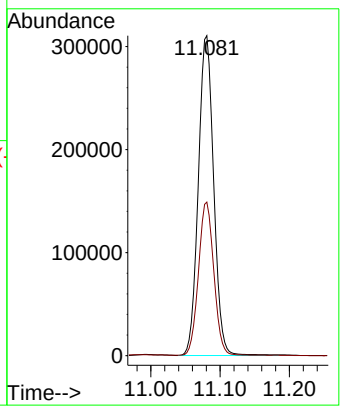
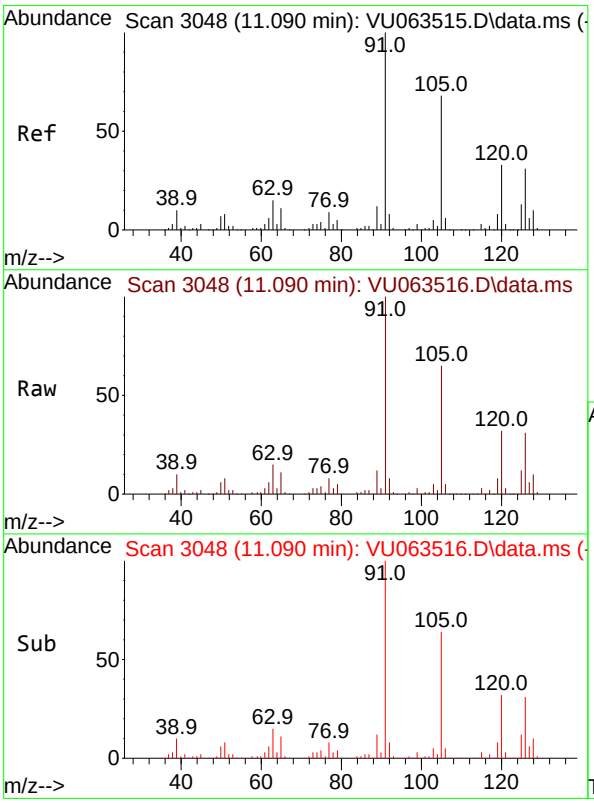
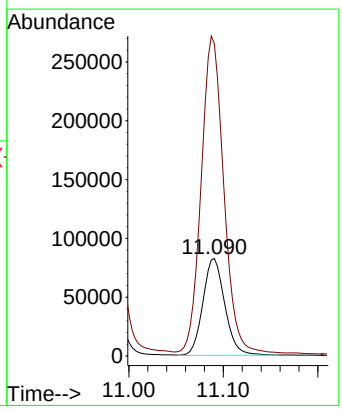


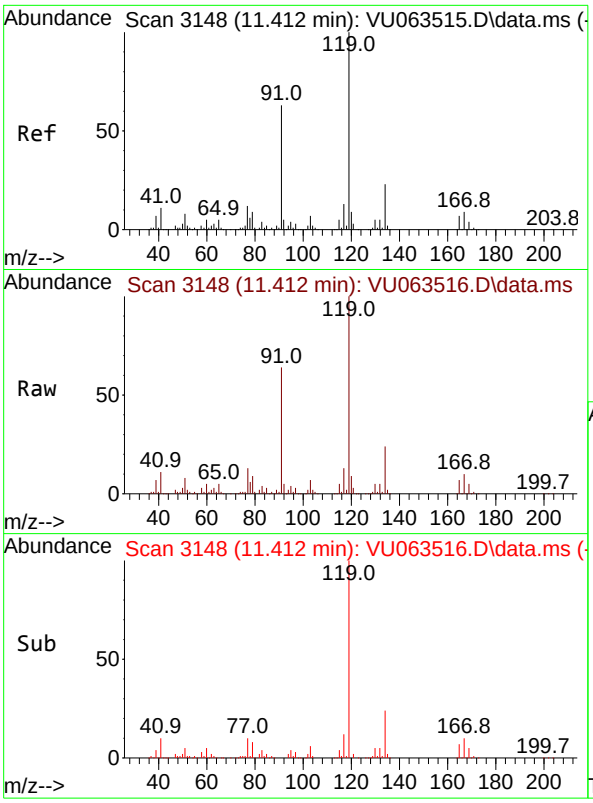


#76
4-Chlorotoluene
Concen: 17.147 ug/l
RT: 11.090 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:126 Resp: 132384

Ion	Ratio	Lower	Upper
126	100		
91	337.8	0.0	682.2

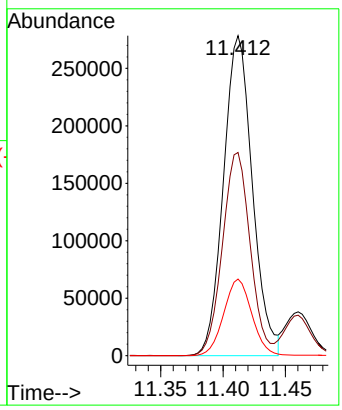




#77
tert-Butylbenzene
Concen: 17.282 ug/l
RT: 11.412 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:119 Resp: 45084

Ion	Ratio	Lower	Upper
119	100		
91	61.0	30.7	92.1
134	23.3	18.5	27.7



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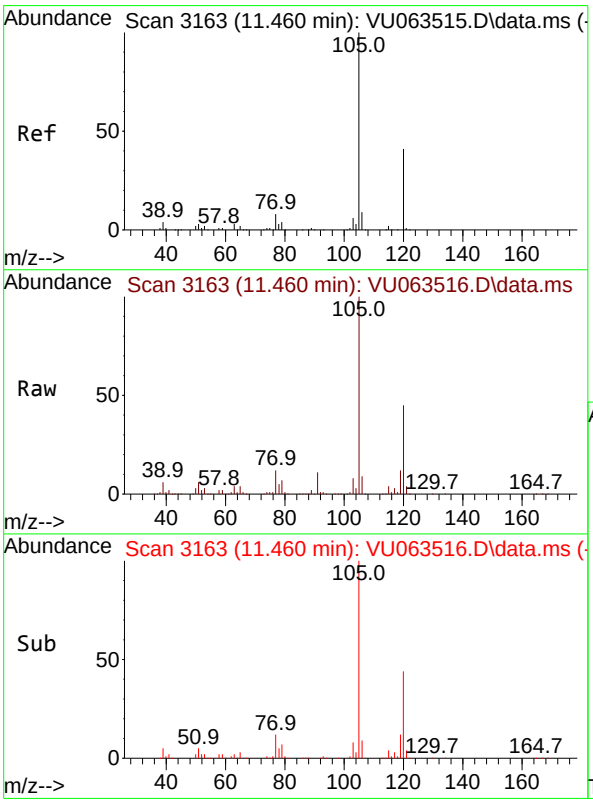
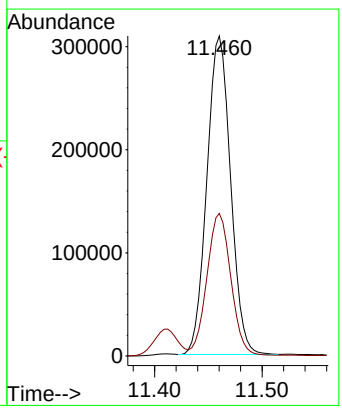
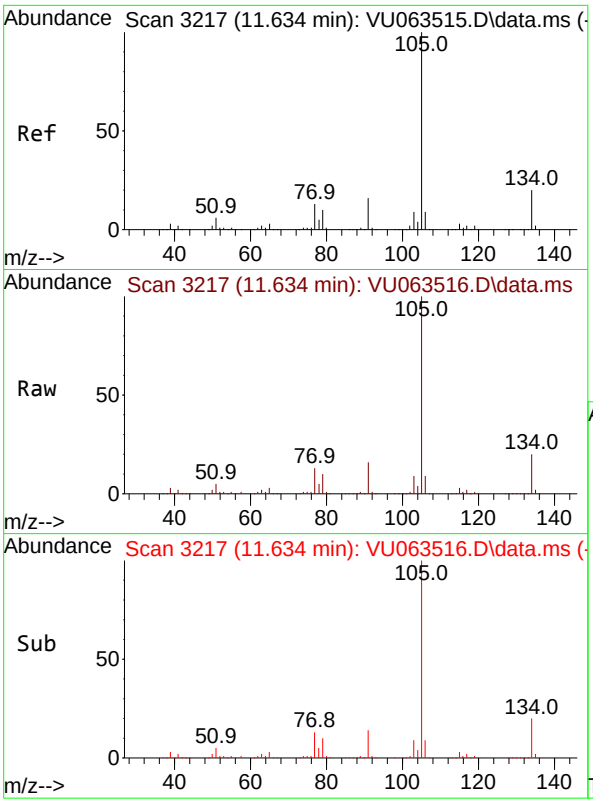


#78
1,2,4-Trimethylbenzene
Concen: 17.485 ug/l
RT: 11.460 min Scan# 3163
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:105 Resp: 473538

Ion	Ratio	Lower	Upper
105	100		
120	44.9	22.7	68.0





#79
sec-Butylbenzene
Concen: 17.415 ug/l
RT: 11.634 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:105 Resp: 61265

Ion	Ratio	Lower	Upper
105	100		
134	19.7	16.2	24.4

Instrument :
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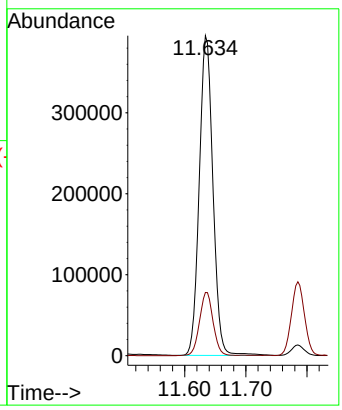
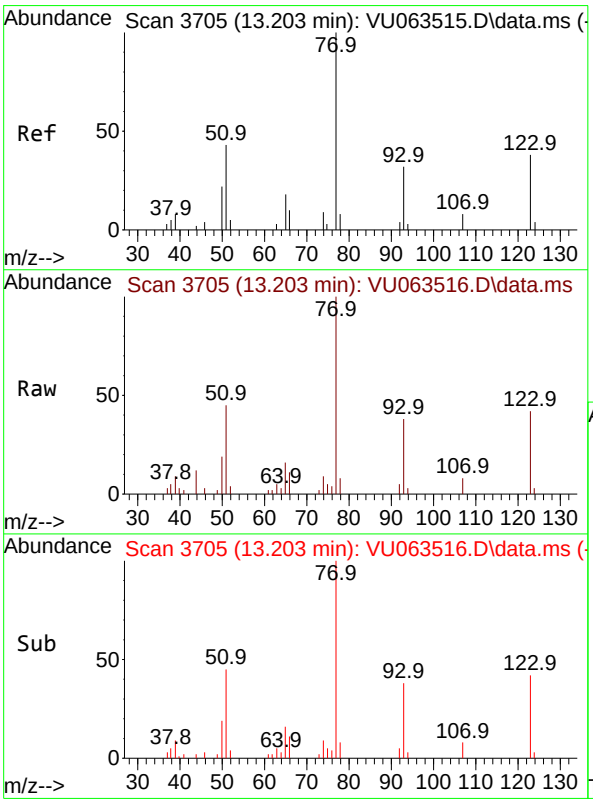
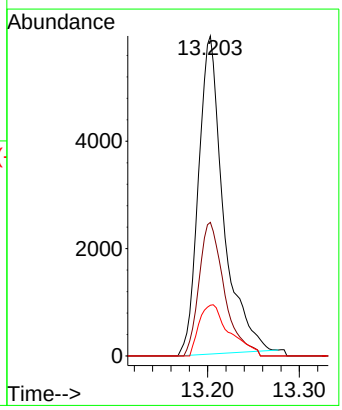


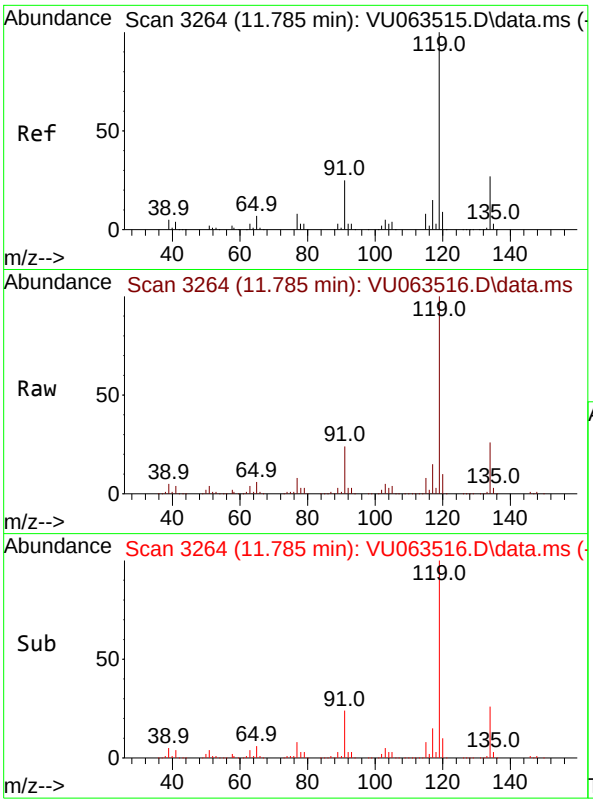


#80
Nitrobenzene
Concen: 74.783 ug/l
RT: 13.203 min Scan# 3705
Delta R.T. -0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 77 Resp: 11188

Ion	Ratio	Lower	Upper
77	100		
123	42.7	16.9	59.7
65	19.5	16.5	20.9

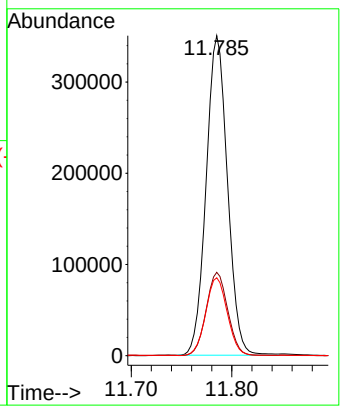




#81
p-Isopropyltoluene
Concen: 17.591 ug/l
RT: 11.785 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:119 Resp: 51660

Ion	Ratio	Lower	Upper
119	100		
134	26.2	21.1	31.7
91	24.5	19.8	29.8



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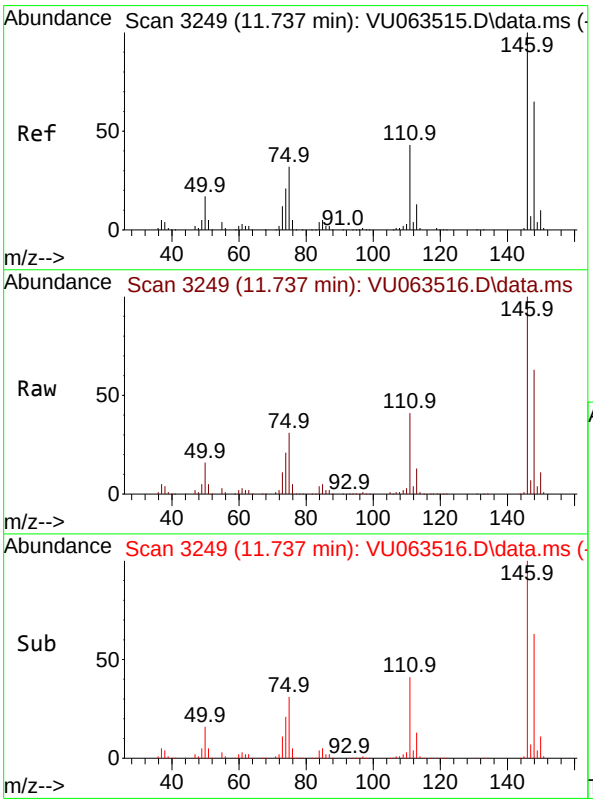
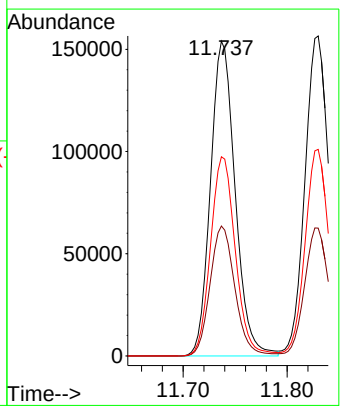
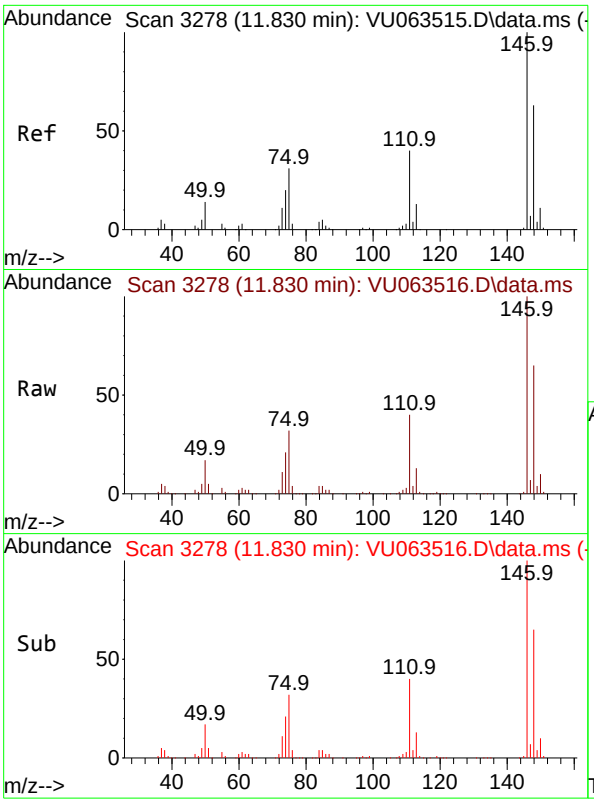


#82
1,3-Dichlorobenzene
Concen: 17.221 ug/l
RT: 11.737 min Scan# 3249
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:146 Resp: 254102

Ion	Ratio	Lower	Upper
146	100		
111	41.5	33.8	50.6
148	63.8	51.5	77.3

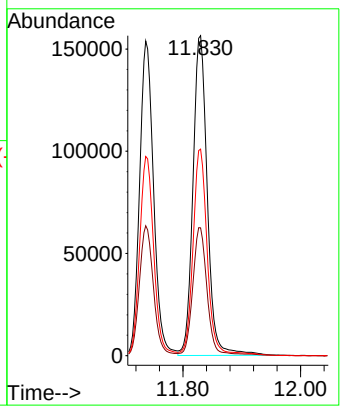




#83
1,4-Dichlorobenzene
Concen: 17.978 ug/l
RT: 11.830 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:146 Resp: 26553

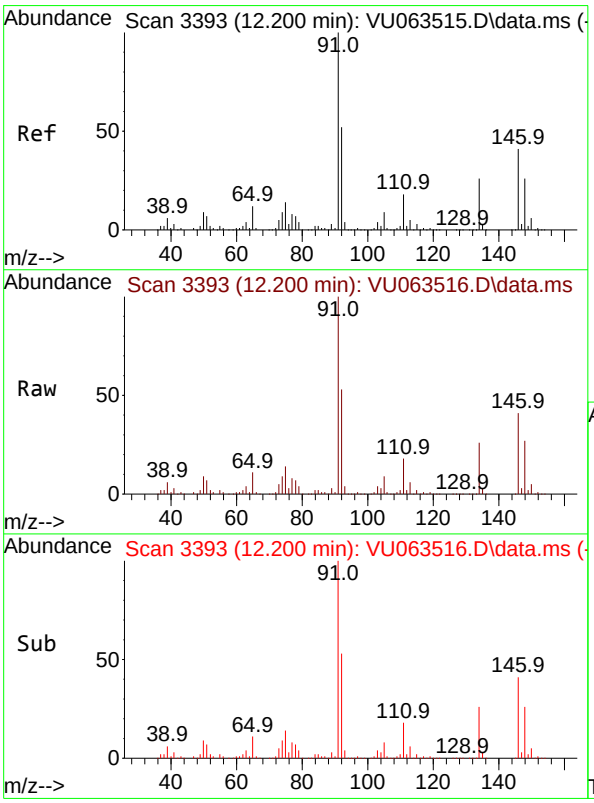
Ion	Ratio	Lower	Upper
146	100		
111	40.6	32.0	48.0
148	64.3	50.2	75.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

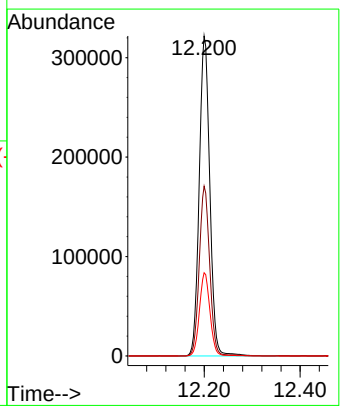
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

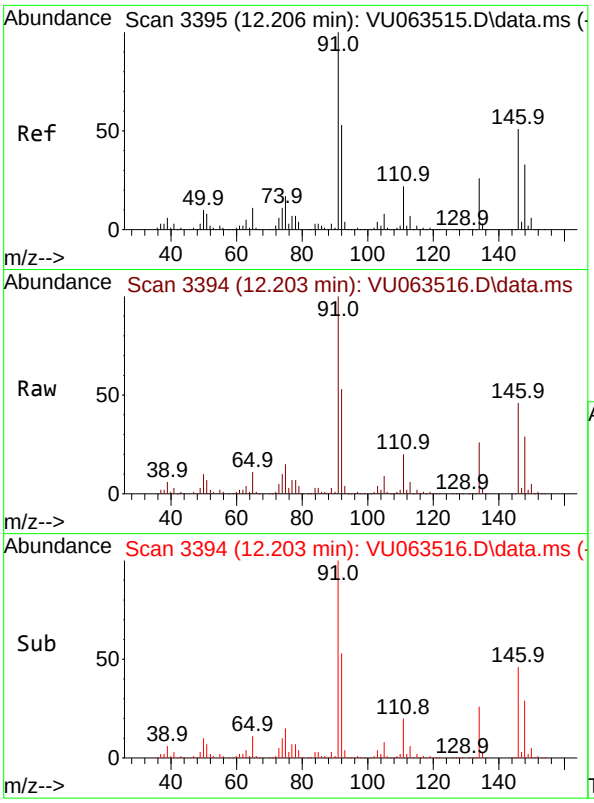


#84
n-Butylbenzene
Concen: 18.081 ug/l
RT: 12.200 min Scan# 3393
Delta R.T. -0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 91 Resp: 492464

Ion	Ratio	Lower	Upper
91	100		
92	52.2	41.5	62.3
134	25.9	20.6	30.8

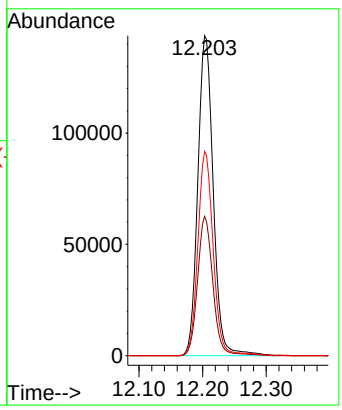




#85
1,2-Dichlorobenzene
Concen: 17.474 ug/l
RT: 12.203 min Scan# 3
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:146 Resp: 24221

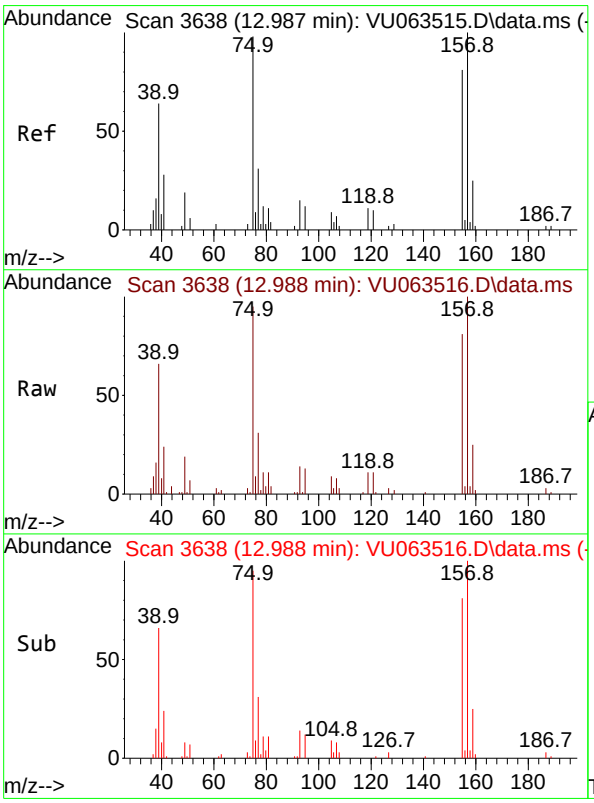
Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.7	65.1
148	63.0	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

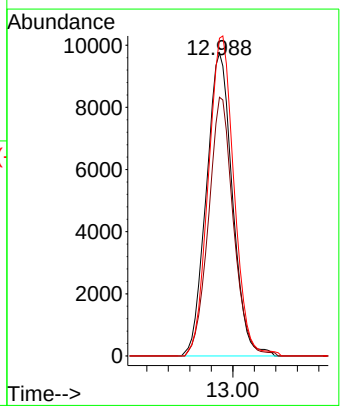
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

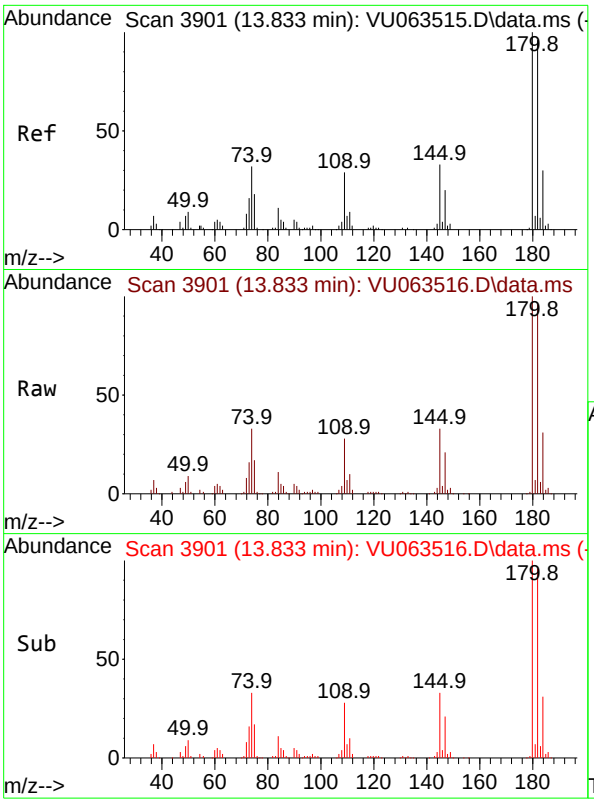


#86
1,2-Dibromo-3-Chloropropane
Concen: 14.975 ug/l
RT: 12.988 min Scan# 3638
Delta R.T. 0.001 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 75 Resp: 16421

Ion	Ratio	Lower	Upper
75	100		
155	81.4	65.8	98.6
157	104.0	81.4	122.2

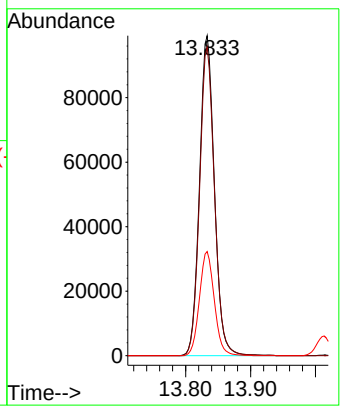




#87
1,2,4-Trichlorobenzene
Concen: 18.396 ug/l
RT: 13.833 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:180 Resp: 15857

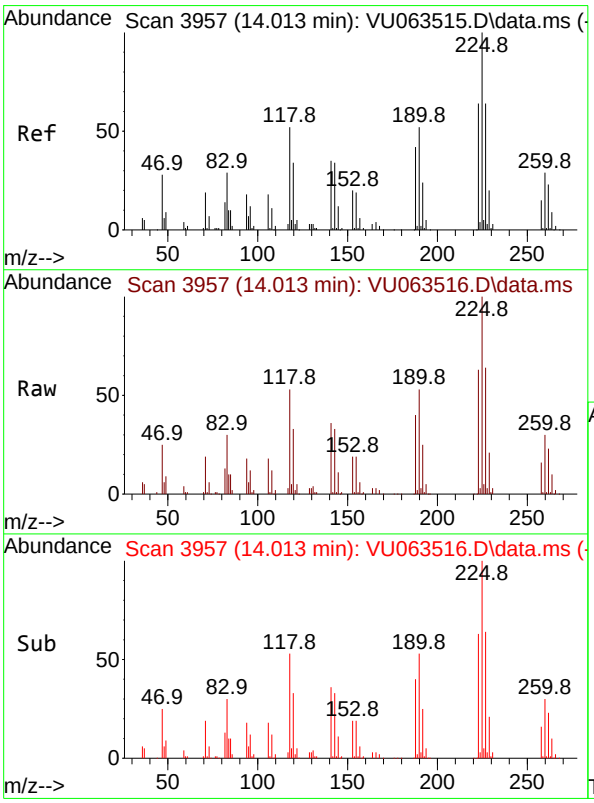
Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.2	114.4
145	32.5	26.2	39.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

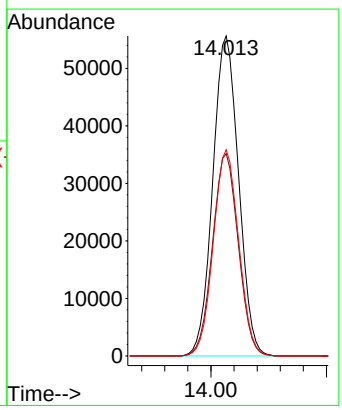
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

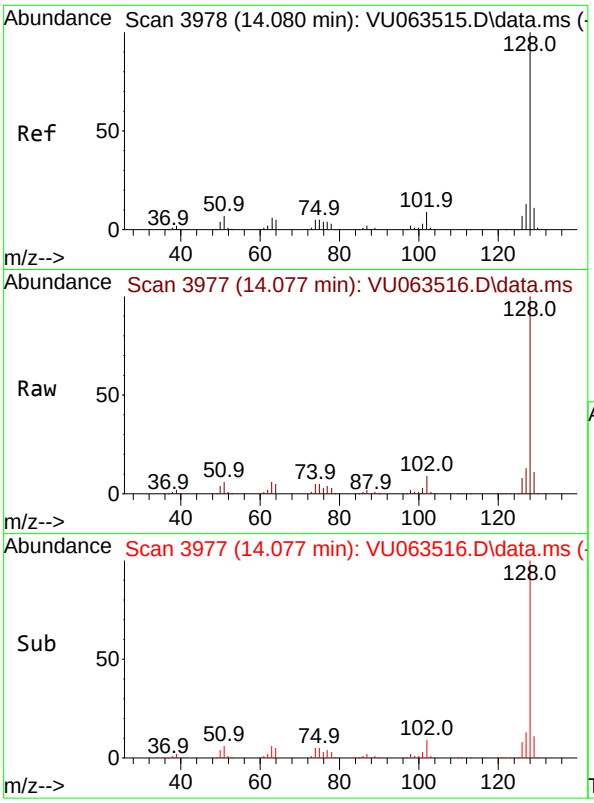


#88
Hexachlorobutadiene
Concen: 17.630 ug/l
RT: 14.013 min Scan# 3957
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:225 Resp: 86303

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.8	76.2
227	63.4	51.0	76.6

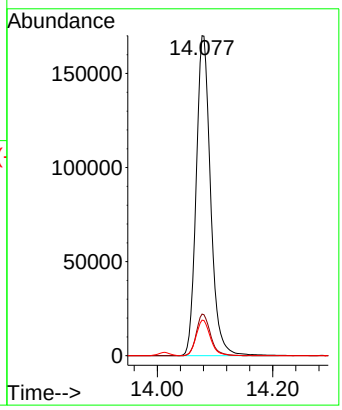




#89
Naphthalene
Concen: 18.966 ug/l
RT: 14.077 min Scan# 3
Delta R.T. -0.003 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:128 Resp: 29296

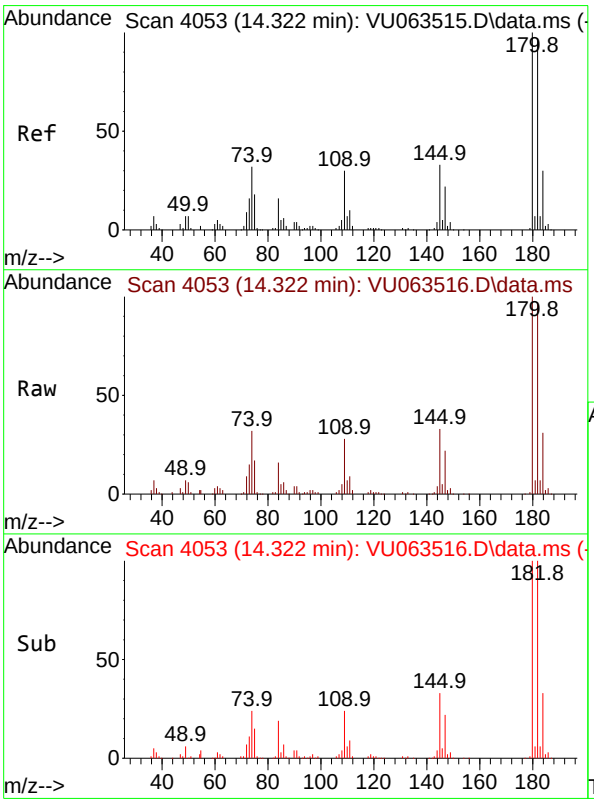
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	11.0	8.8	13.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

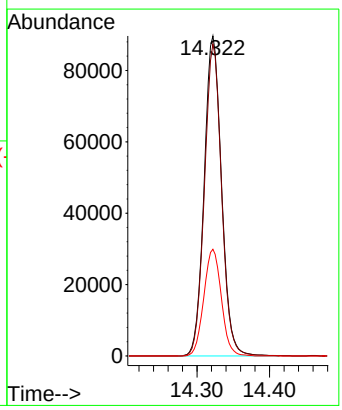
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#90
1,2,3-Trichlorobenzene
Concen: 18.735 ug/l
RT: 14.322 min Scan# 4053
Delta R.T. 0.000 min
Lab File: VU063516.D
Acq: 16 Jul 2025 12:11

Tgt Ion:180 Resp: 149249

Ion	Ratio	Lower	Upper
180	100		
182	96.1	78.0	117.0
145	33.6	27.3	40.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063517.D
Acq On : 16 Jul 2025 14:19
Operator : MD/SY
Sample : VSTDICV010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:27:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	22543	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	10918	1.279	ug/l	0.00
Spiked Amount 1.000			Recovery = 128.000%			
68) 1,2-Dichlorobenzene-d4	12.187	152	9055	1.147	ug/l	0.00
Spiked Amount 1.000			Recovery = 115.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.380	85	47518	7.149	ug/l	98
3) Chloromethane	1.518	50	59639	9.652	ug/l	99
4) Vinyl Chloride	1.599	62	75020	9.533	ug/l	99
5) Bromomethane	1.846	94	57124	9.626	ug/l	97
6) Chloroethane	1.924	64	48669	10.243	ug/l	100
7) Trichlorofluoromethane	2.129	101	117095	10.364	ug/l	99
8) 1,1,2-Trichloro-1,2,2-...	2.567	101	67543	11.439	ug/l	98
9) 1,1-Dichloroethene	2.567	96	68402	11.688	ug/l	95
10) Iodomethane	2.708	142	78640	9.080	ug/l	98
11) Allyl Chloride	2.907	41	104721	12.385	ug/l	99
12) Acrylonitrile	3.306	53	78654	53.704	ug/l	97
13) Acetone	2.618	43	76920	65.587	ug/l	100
14) Carbon Disulfide	2.776	76	197248	10.434	ug/l	99
15) Methylene Chloride	3.026	84	76711	11.133	ug/l	98
16) trans-1,2-Dichloroethene	3.332	96	71158	10.705	ug/l	98
17) 1,1-Dichloroethane	3.846	63	140320	11.390	ug/l	100
18) 2-Butanone	4.714	43	107346	59.104	ug/l	99
19) Cyclohexane	5.357	56	120201	11.523	ug/l	100
20) Methylcyclohexane	6.743	83	103883	10.246	ug/l	98
21) 2,2-Dichloropropane	4.644	77	118031	11.251	ug/l	100
22) cis-1,2-Dichloroethene	4.647	96	84773	11.753	ug/l	97
23) Diethyl Ether	2.370	59	48588	10.895	ug/l	99
24) tert-Butyl Alcohol	3.194	59	29533	54.858	ug/l	99
25) Methyl tert-Butyl Ether	3.361	73	182299	11.931	ug/l	99
26) Bromochloromethane	4.956	128	32227	10.701	ug/l	95
27) Chloroform	5.068	83	141992	11.295	ug/l	100
28) 1,1,1-Trichloroethane	5.293	97	124774	11.694	ug/l	100
29) 1,1-Dichloropropene	5.499	75	104813	10.604	ug/l	97
30) Carbon Tetrachloride	5.496	117	102031	11.881	ug/l	96
31) Isopropyl Ether	3.994	45	217473	11.694	ug/l #	1
34) Propionitrile	4.775	54	61045	110.315	ug/l	96
35) Benzene	5.753	78	251880	9.485	ug/l	99
36) 1,2-Dichloroethane	5.782	62	75983	9.208	ug/l	99
37) Trichloroethene	6.525	130	66834	9.864	ug/l	95
38) 1,2-Dichloropropane	6.782	63	63102	10.152	ug/l	98
39) Methacrylonitrile	4.972	41	25678	10.571	ug/l	98
40) Methyl acrylate	4.846	55	39416	10.962	ug/l #	95
41) Tetrahydrofuran	5.062	42	67337	52.040	ug/l	97
42) 1-Chlorobutane	5.435	56	151540	11.532	ug/l	99
43) Dibromomethane	6.907	93	35899	11.149	ug/l	97
44) Bromodichloromethane	7.094	83	84311	11.611	ug/l	97
45) 4-Methyl-2-Pentanone	7.795	43	190879	57.520	ug/l	100
46) t-1,4-Dichloro-2-butene	10.827	75	12861m	10.924	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063517.D
Acq On : 16 Jul 2025 14:19
Operator : MD/SY
Sample : VSTDICV010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:27:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Methyl methacrylate	6.965	69	30655	11.336	ug/l	92
48) Ethyl methacrylate	8.332	69	62257	12.064	ug/l	100
49) Toluene	7.959	92	167696	11.565	ug/l	97
50) t-1,3-Dichloropropene	8.203	75	69274	12.160	ug/l	99
51) cis-1,3-Dichloropropene	7.599	75	87222	11.406	ug/l	99
52) 1,1,2-Trichloroethane	8.393	97	47565	10.973	ug/l	98
53) 1,3-Dichloropropane	8.566	76	81190	10.849	ug/l	99
54) 2-Hexanone	8.685	43	130609	59.254	ug/l	99
55) Dibromochloromethane	8.801	129	56885	12.417	ug/l	99
56) 1,2-Dibromoethane	8.917	107	42078	10.846	ug/l	98
58) Tetrachloroethene	8.541	164	70149	11.312	ug/l	98
59) Chlorobenzene	9.438	112	192479	11.557	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.524	131	58716	10.964	ug/l	98
61) Pentachloroethane	11.418	117	46643	12.325	ug/l	98
62) Hexachloroethane	12.466	117	46374	12.375	ug/l	100
63) Ethyl Benzene	9.560	91	327850	11.440	ug/l	100
64) m/p-Xylenes	9.685	106	261516	23.477	ug/l	98
65) o-Xylene	10.090	106	128236	11.980	ug/l	99
66) Styrene	10.106	104	207563	12.168	ug/l	99
67) Bromoform	10.283	173	28453	12.093	ug/l	100
69) Isopropylbenzene	10.476	105	336555	13.006	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.775	83	56769	10.762	ug/l	99
71) 1,2,3-Trichloropropane	10.814	75	39518m	9.180	ug/l	
72) Bromobenzene	10.775	156	77499	11.605	ug/l	99
73) n-propylbenzene	10.897	120	92519	11.877	ug/l	100
74) 2-Chlorotoluene	10.978	126	81148	11.787	ug/l	97
75) 1,3,5-Trimethylbenzene	11.081	105	296624	11.999	ug/l	98
76) 4-Chlorotoluene	11.090	126	83551	11.950	ug/l	96
77) tert-Butylbenzene	11.412	119	282930	11.976	ug/l	100
78) 1,2,4-Trimethylbenzene	11.460	105	296010	12.070	ug/l	99
79) sec-Butylbenzene	11.634	105	381524	11.975	ug/l	99
80) Nitrobenzene	13.216	77	1132m	13.031	ug/l	
81) p-Isopropyltoluene	11.785	119	326583	12.280	ug/l	99
82) 1,3-Dichlorobenzene	11.737	146	159160	11.911	ug/l	99
83) 1,4-Dichlorobenzene	11.830	146	155981	11.662	ug/l	97
84) n-Butylbenzene	12.200	91	300975	12.202	ug/l	98
85) 1,2-Dichlorobenzene	12.206	146	150510	11.990	ug/l	99
86) 1,2-Dibromo-3-Chloropr...	12.987	75	9053	10.124	ug/l	99
87) 1,2,4-Trichlorobenzene	13.833	180	98543	12.623	ug/l	100
88) Hexachlorobutadiene	14.013	225	51315	11.575	ug/l	98
89) Naphthalene	14.081	128	165643	11.841	ug/l	99
90) 1,2,3-Trichlorobenzene	14.322	180	85042	11.788	ug/l	98

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

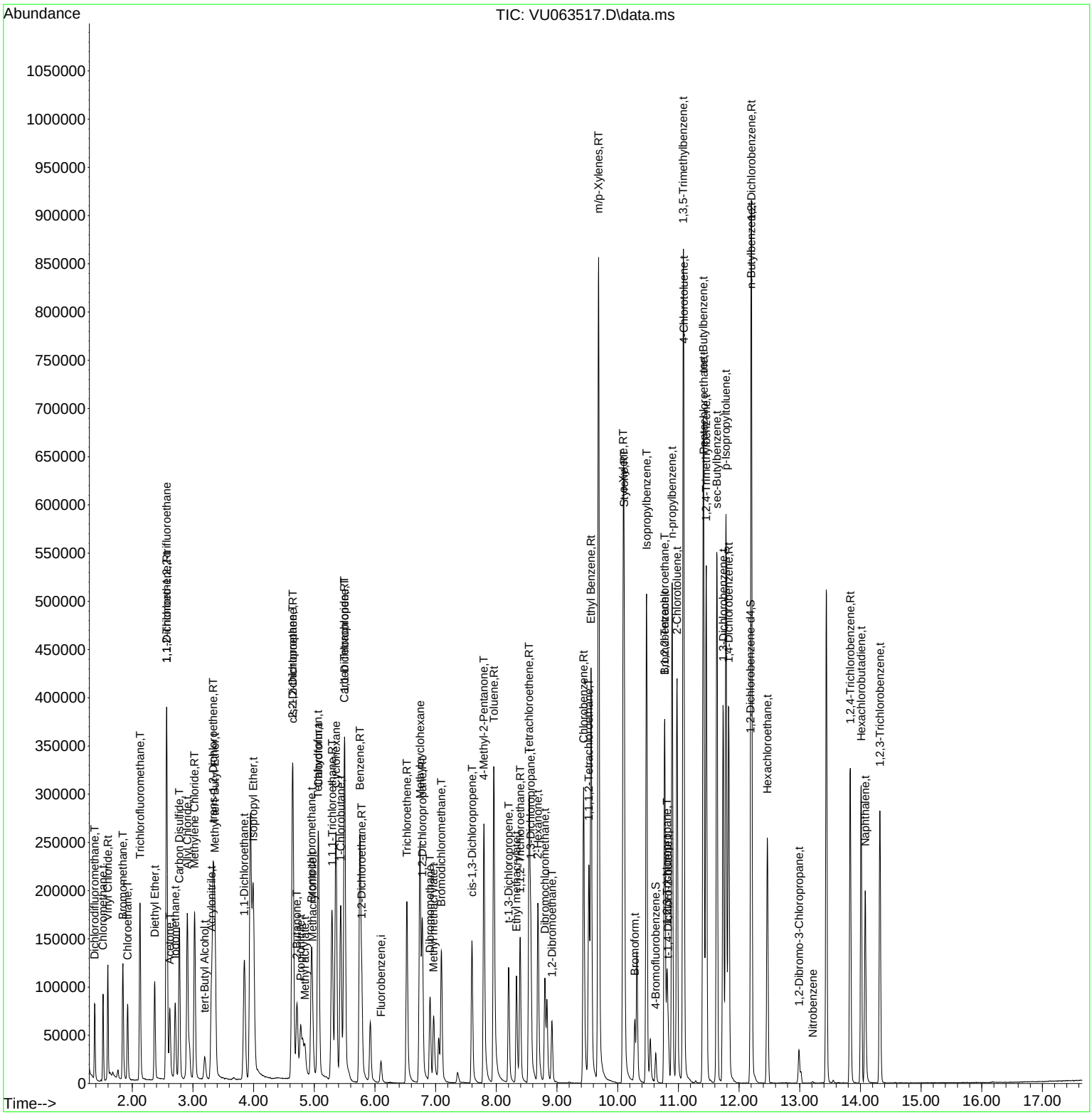
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063517.D
Acq On : 16 Jul 2025 14:19
Operator : MD/SY
Sample : VSTDICV010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

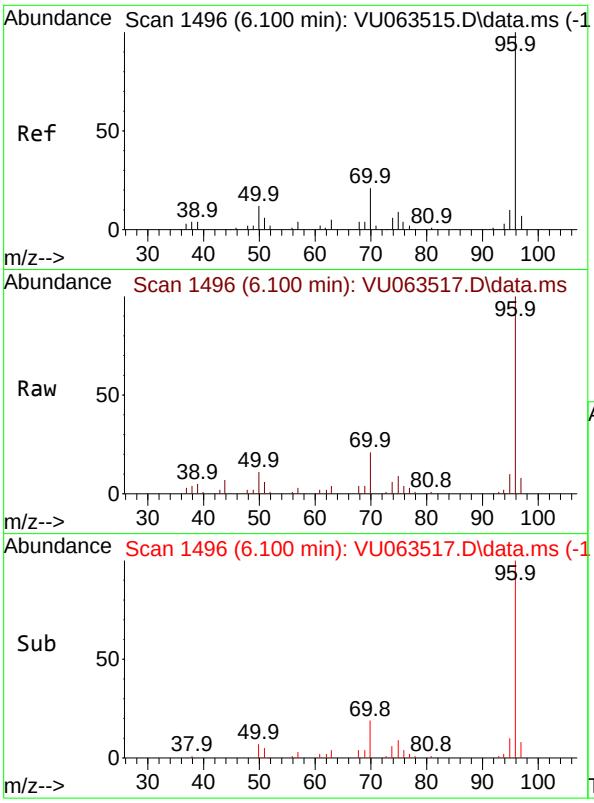
Quant Time: Jul 17 03:27:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

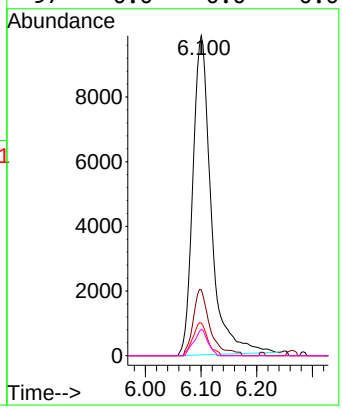




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.100 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 96 Resp: 2254

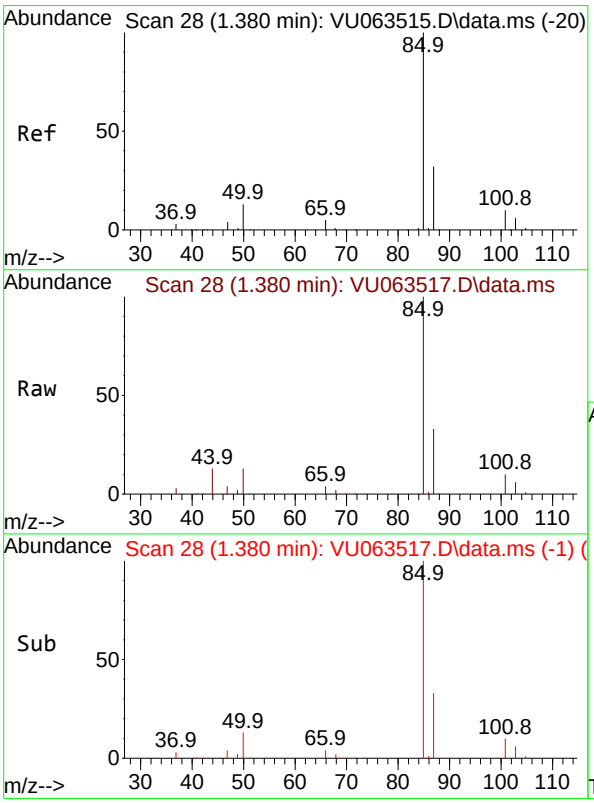
Ion	Ratio	Lower	Upper
96	100		
70	19.0	15.0	22.4
95	8.3	7.4	11.0
97	0.0	0.0	0.0



Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

Manual Integrations APPROVED

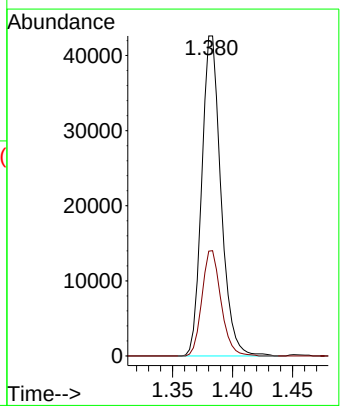
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

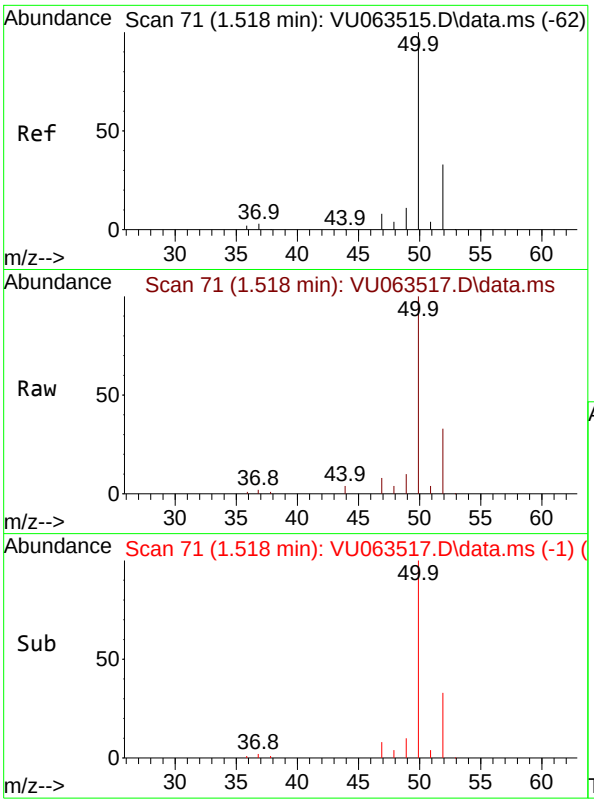


#2
Dichlorodifluoromethane
Concen: 7.149 ug/l
RT: 1.380 min Scan# 28
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 85 Resp: 47518

Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.0	47.9

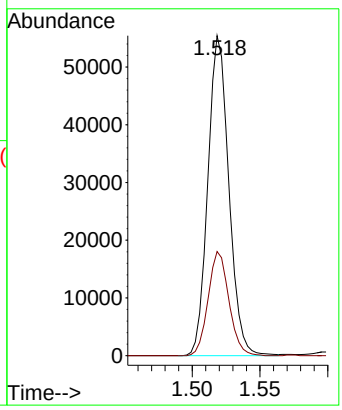




#3
Chloromethane
Concen: 9.652 ug/l
RT: 1.518 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 50 Resp: 5963

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.3	39.5



Instrument :
MSVOA_U
ClientSampleId :
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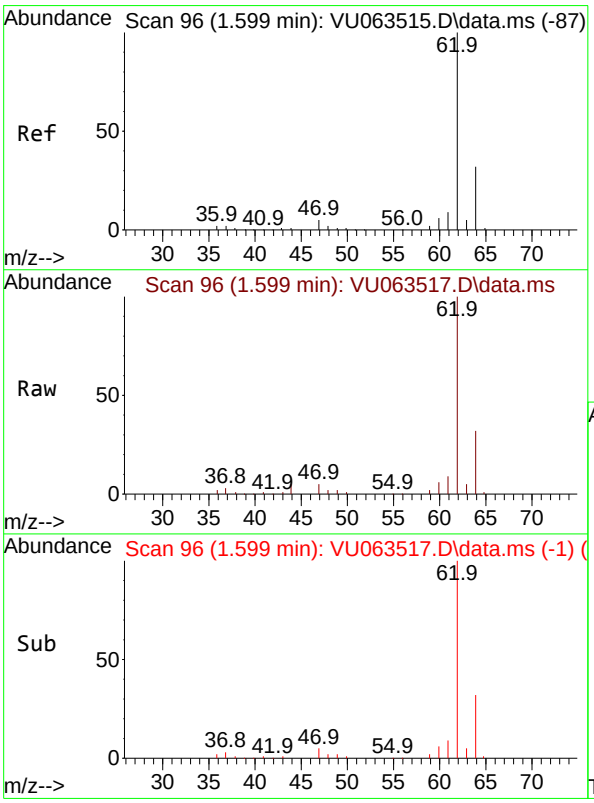
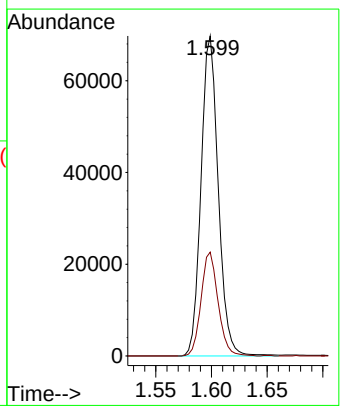
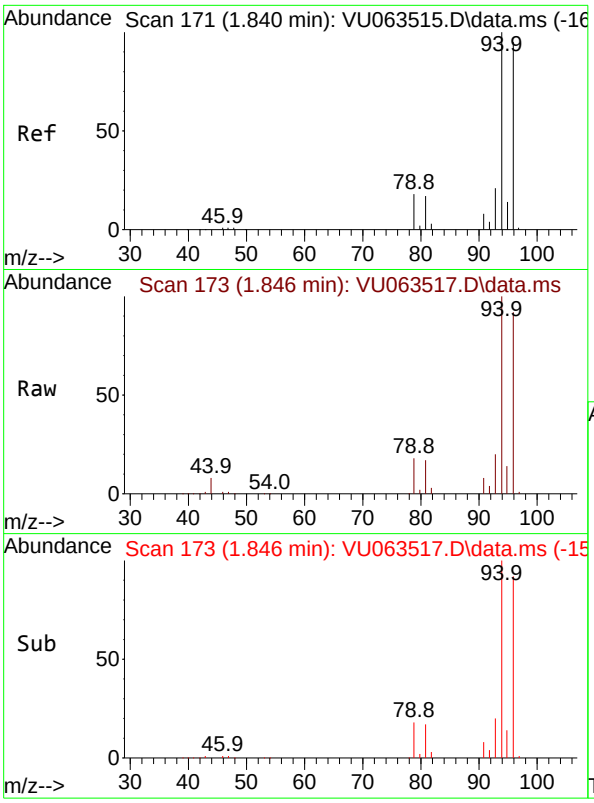


#4
Vinyl Chloride
Concen: 9.533 ug/l
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 62 Resp: 75020

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.7	38.5

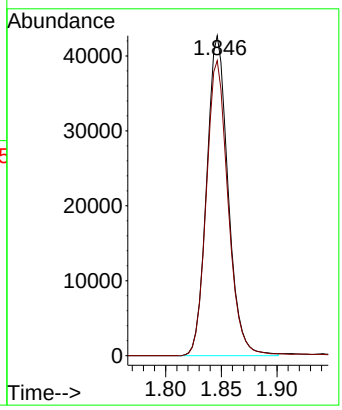




#5
Bromomethane
Concen: 9.626 ug/l
RT: 1.846 min Scan# 1
Delta R.T. 0.007 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 94 Resp: 5712

Ion	Ratio	Lower	Upper
94	100		
96	92.2	75.8	113.6



Instrument :
MSVOA_U
ClientSampleId :
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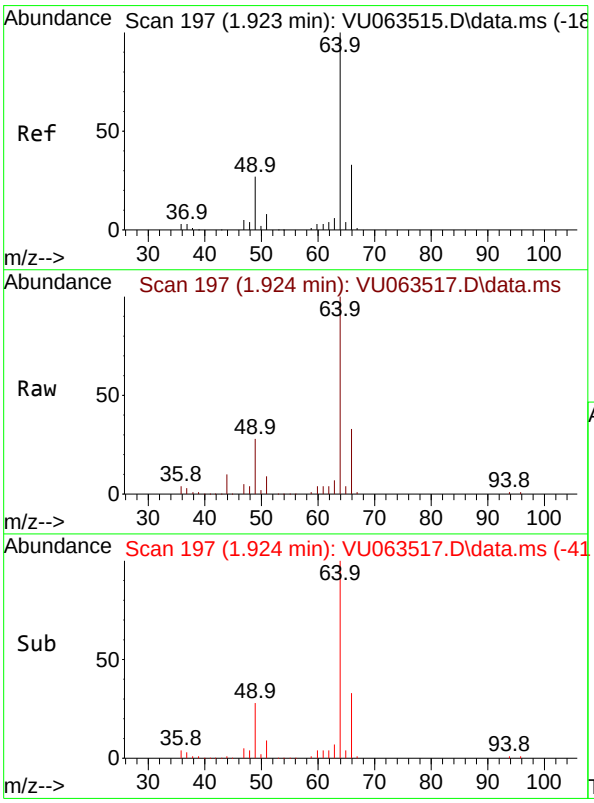
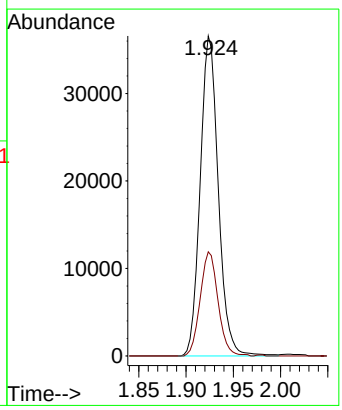
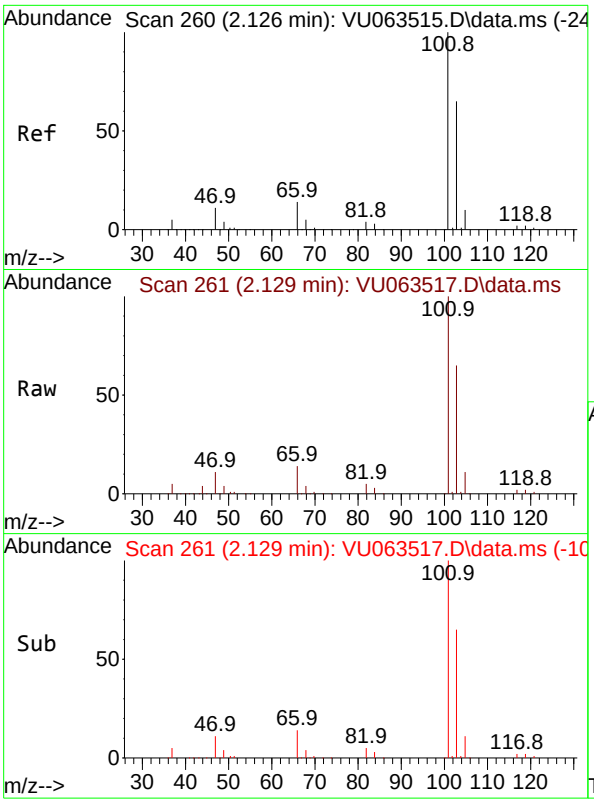


#6
Chloroethane
Concen: 10.243 ug/l
RT: 1.924 min Scan# 197
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 64 Resp: 48669

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.2	39.4





#7
Trichlorofluoromethane
Concen: 10.364 ug/l
RT: 2.129 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:101 Resp: 11709

Ion	Ratio	Lower	Upper
101	100		
103	64.6	52.2	78.4

Instrument :
MSVOA_U
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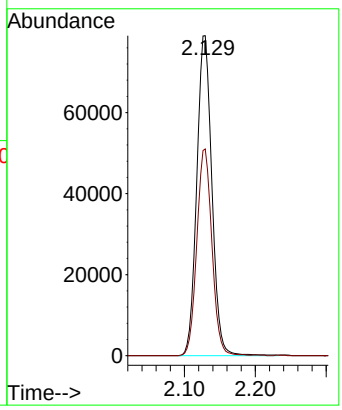
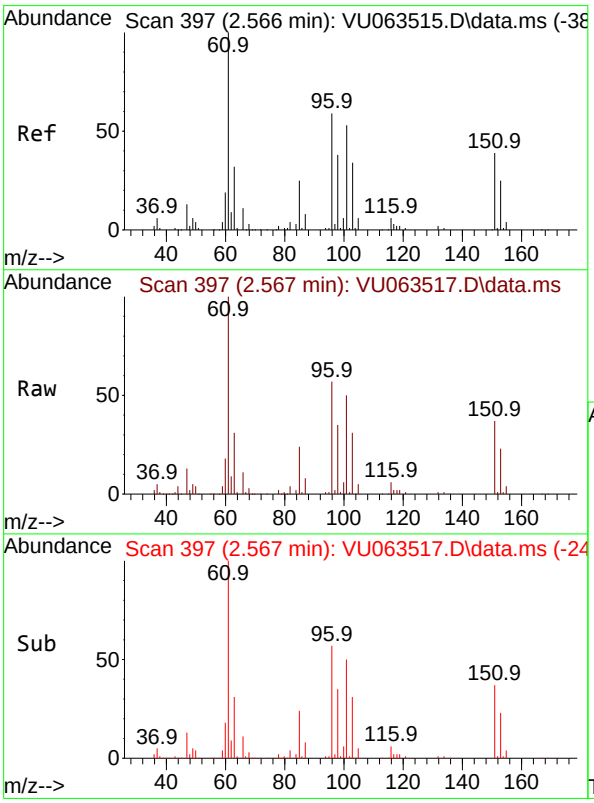
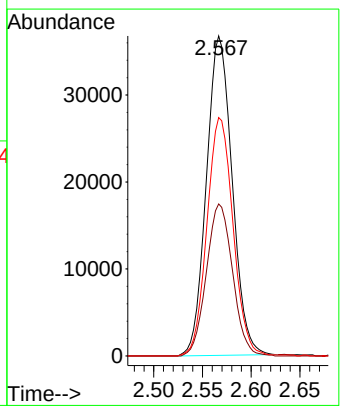


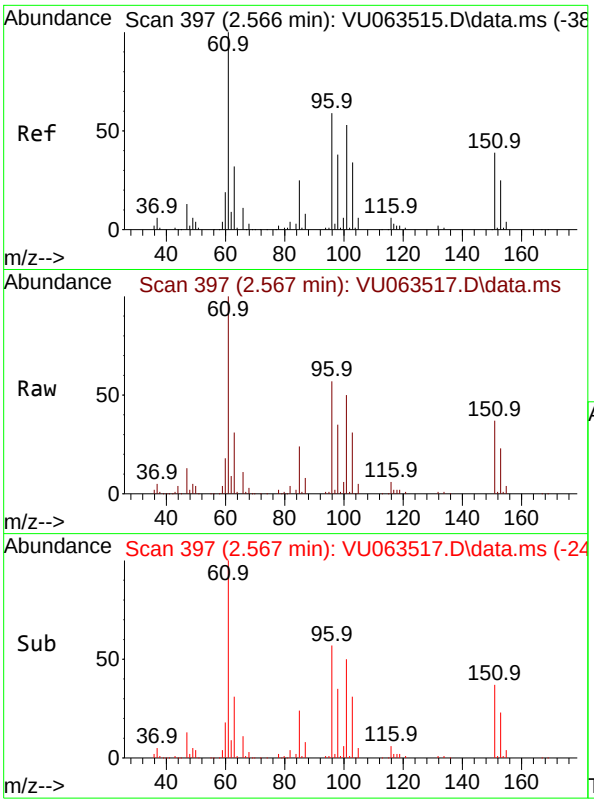


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 11.439 ug/l
RT: 2.567 min Scan# 397
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:101 Resp: 67543

Ion	Ratio	Lower	Upper
101	100		
85	48.3	37.8	56.6
151	75.8	59.2	88.8

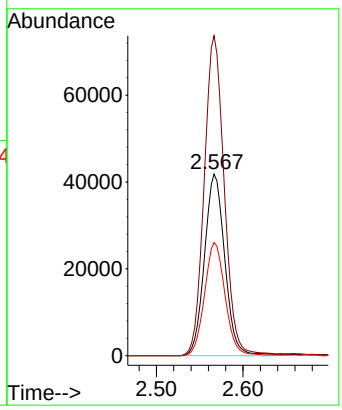




#9
1,1-Dichloroethene
Concen: 11.688 ug/l
RT: 2.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 96 Resp: 6840

Ion	Ratio	Lower	Upper
96	100		
61	176.2	0.0	504.3
98	62.3	0.0	126.8



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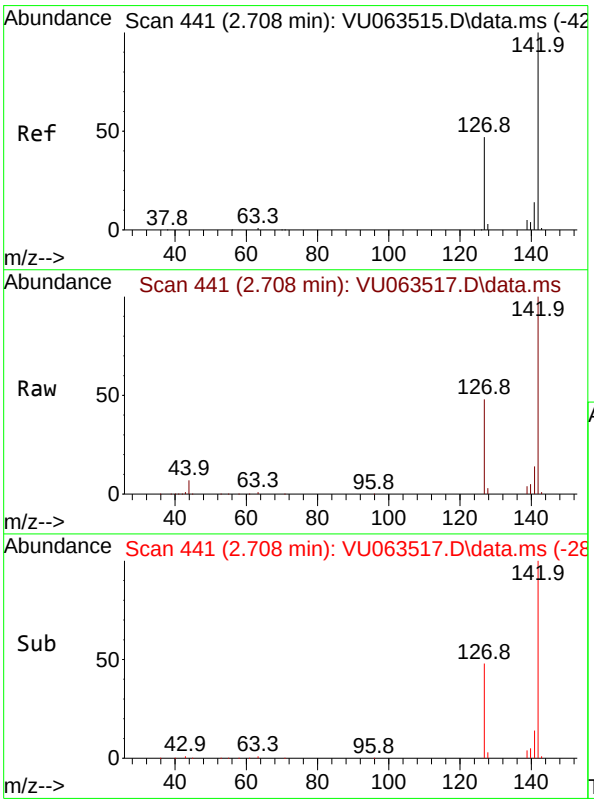
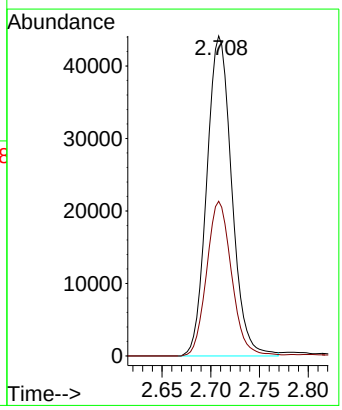
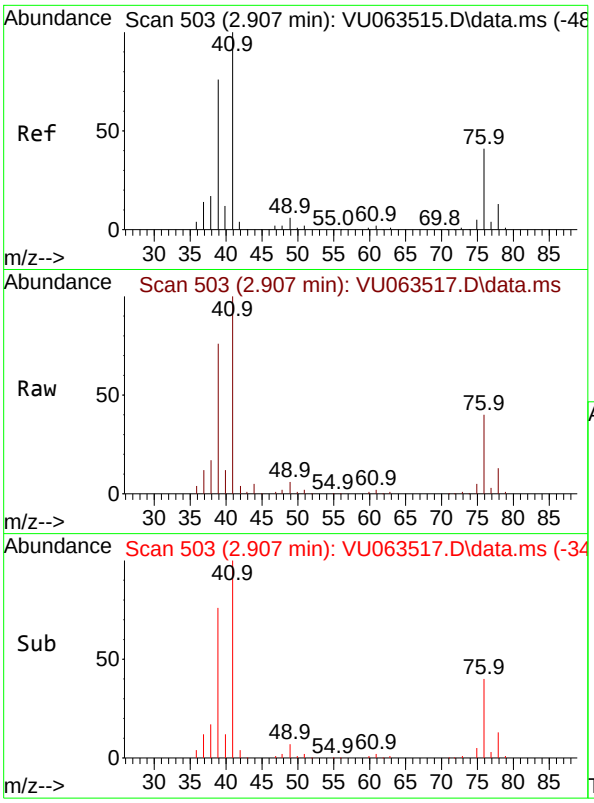


#10
Iodomethane
Concen: 9.080 ug/l
RT: 2.708 min Scan# 441
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:142 Resp: 78640

Ion	Ratio	Lower	Upper
142	100		
127	48.4	37.9	56.9

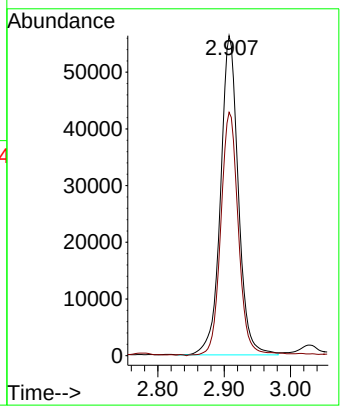




#11
Allyl Chloride
Concen: 12.385 ug/l
RT: 2.907 min Scan# 5
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 41 Resp: 10472

Ion	Ratio	Lower	Upper
41	100		
39	75.9	61.5	92.3



Instrument :
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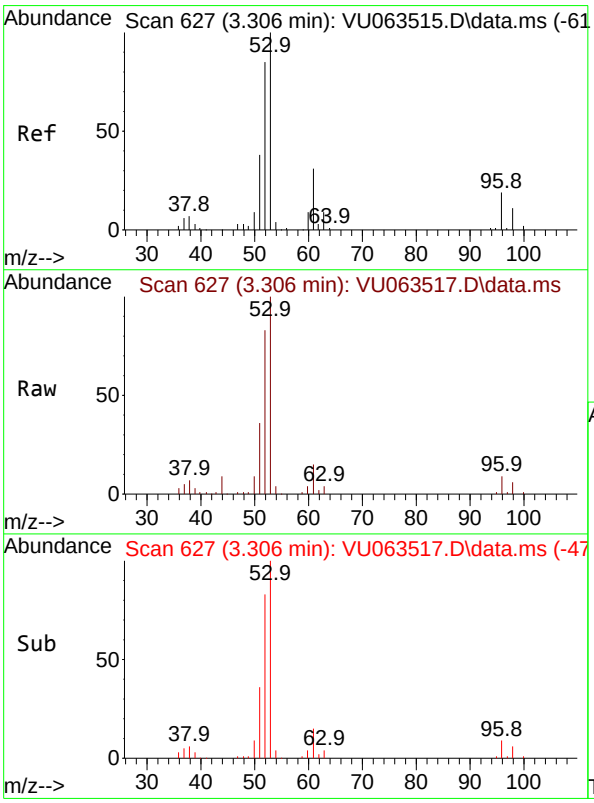
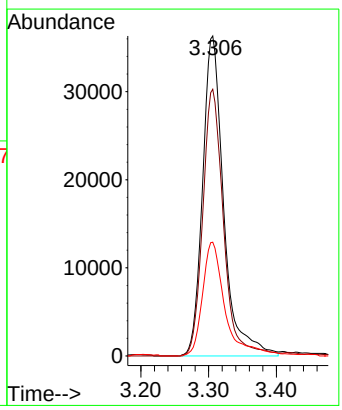
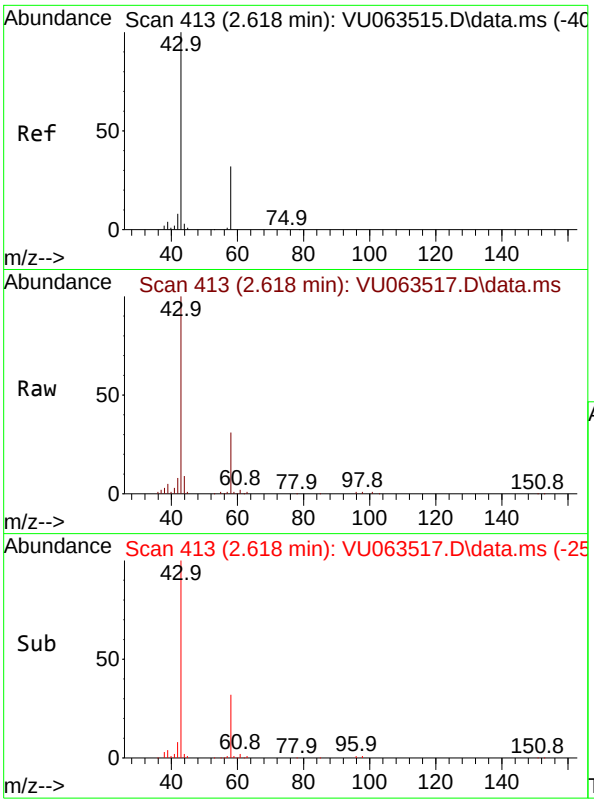


#12
Acrylonitrile
Concen: 53.704 ug/l
RT: 3.306 min Scan# 627
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 53 Resp: 78654

Ion	Ratio	Lower	Upper
53	100		
52	81.9	64.3	96.5
51	38.3	27.8	41.8

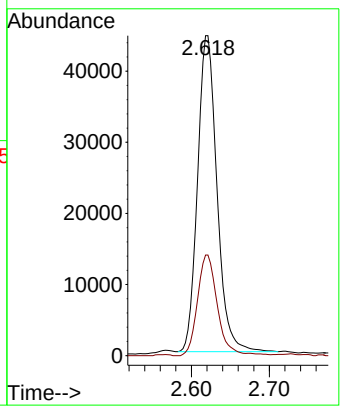




#13
Acetone
Concen: 65.587 ug/l
RT: 2.618 min Scan# 41
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 43 Resp: 7692

Ion	Ratio	Lower	Upper
43	100		
58	31.8	25.4	38.0



Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

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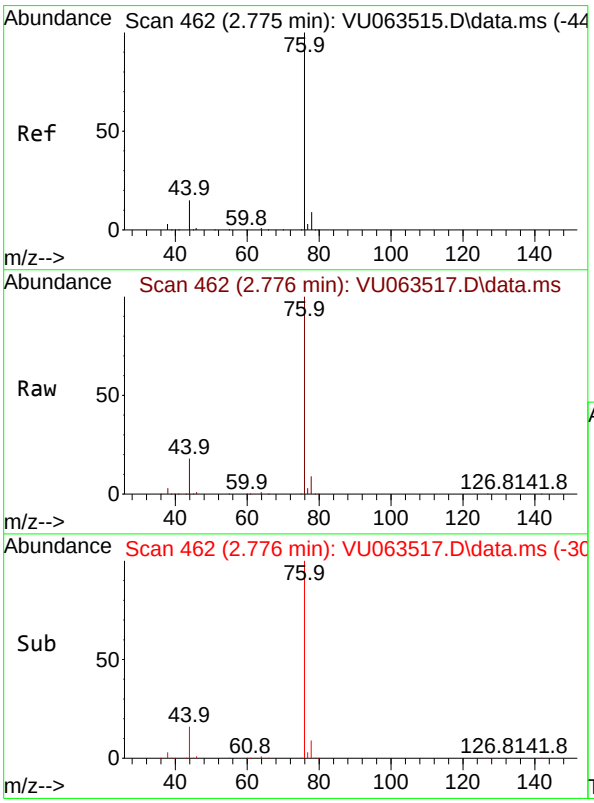
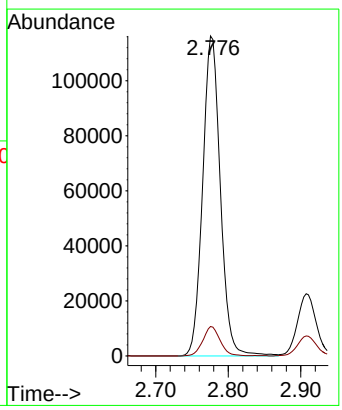
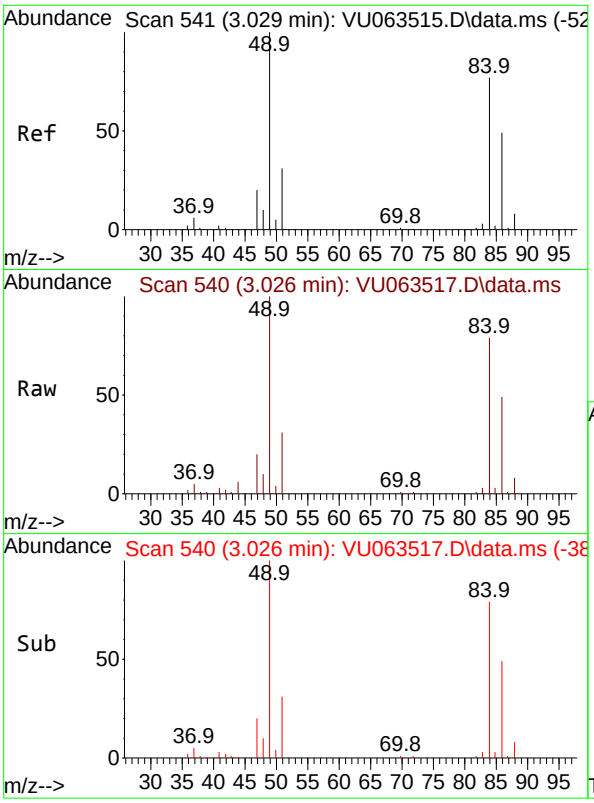


#14
Carbon Disulfide
Concen: 10.434 ug/l
RT: 2.776 min Scan# 462
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 76 Resp: 197248

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.0	10.6

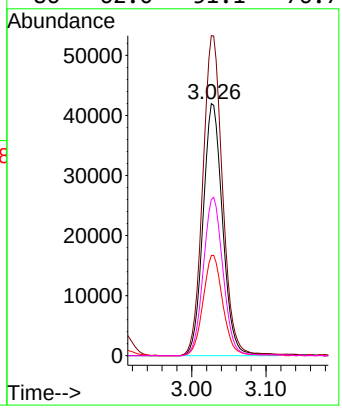




#15
Methylene Chloride
Concen: 11.133 ug/l
RT: 3.026 min Scan# 54
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 84 Resp: 7671

Ion	Ratio	Lower	Upper
84	100		
49	127.0	103.8	155.8
51	39.8	0.0	80.4
86	62.0	51.1	76.7



Instrument :
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ClientSampleId :
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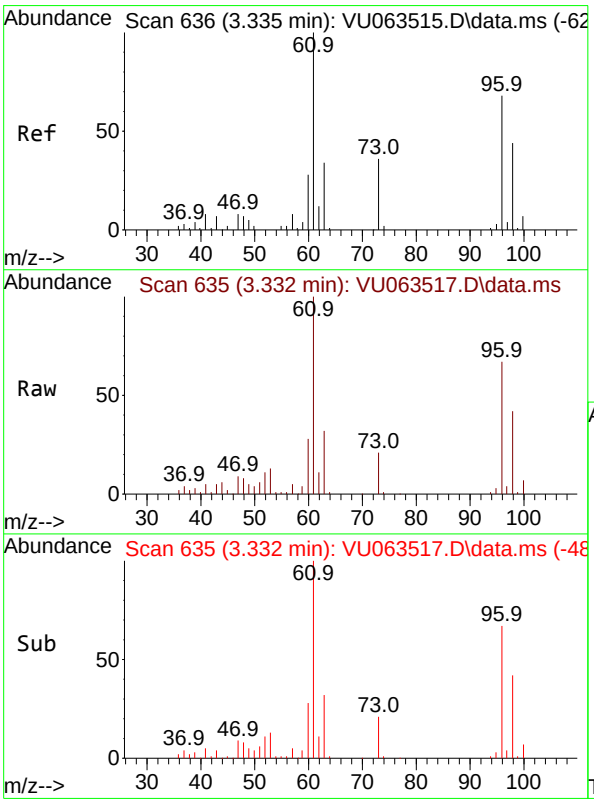
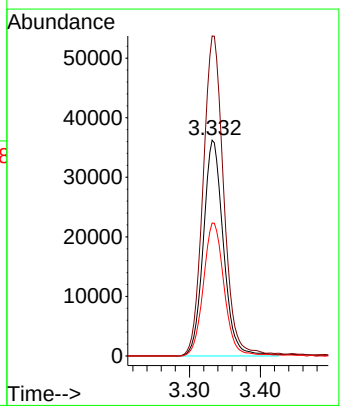
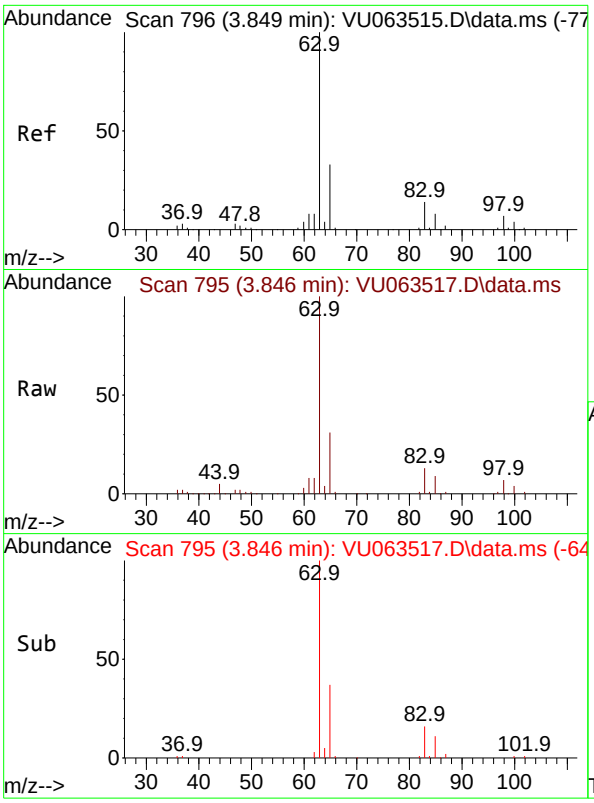


#16
trans-1,2-Dichloroethene
Concen: 10.705 ug/l
RT: 3.332 min Scan# 635
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 96 Resp: 71158

Ion	Ratio	Lower	Upper
96	100		
61	148.2	117.2	175.8
98	61.6	51.4	77.2

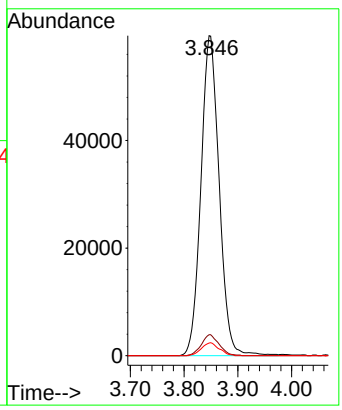




#17
1,1-Dichloroethane
Concen: 11.390 ug/l
RT: 3.846 min Scan# 7
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 63 Resp: 14032

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.2
100	4.0	2.1	6.2



Instrument :
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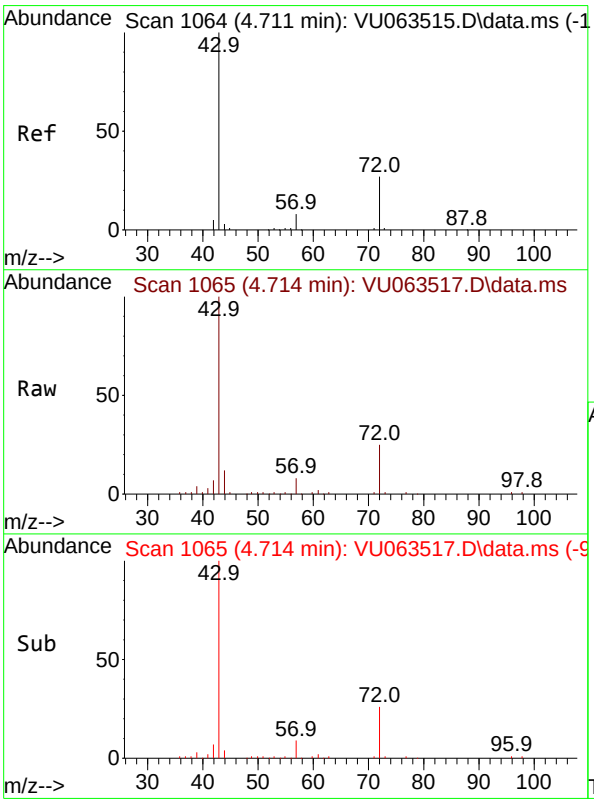
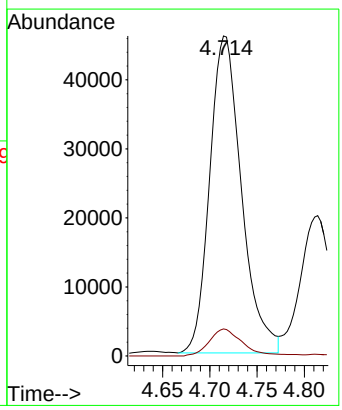
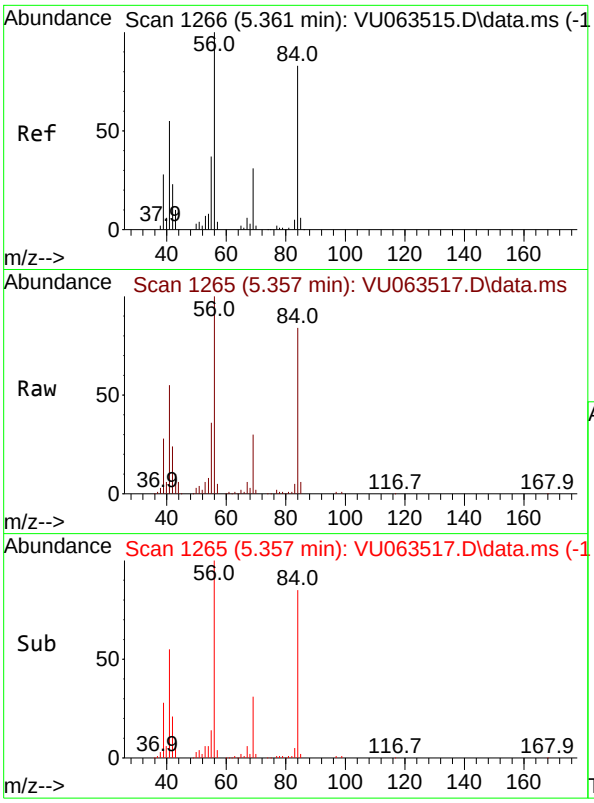


#18
2-Butanone
Concen: 59.104 ug/l
RT: 4.714 min Scan# 1065
Delta R.T. 0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 43 Resp: 107346

Ion	Ratio	Lower	Upper
43	100		
57	8.5	0.0	16.4

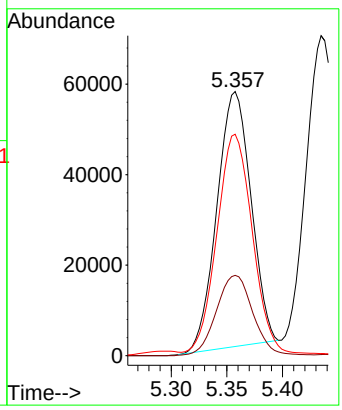




#19
Cyclohexane
Concen: 11.523 ug/l
RT: 5.357 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 56 Resp: 12020

Ion	Ratio	Lower	Upper
56	100		
69	33.2	26.6	39.8
84	88.4	71.0	106.4



Instrument :
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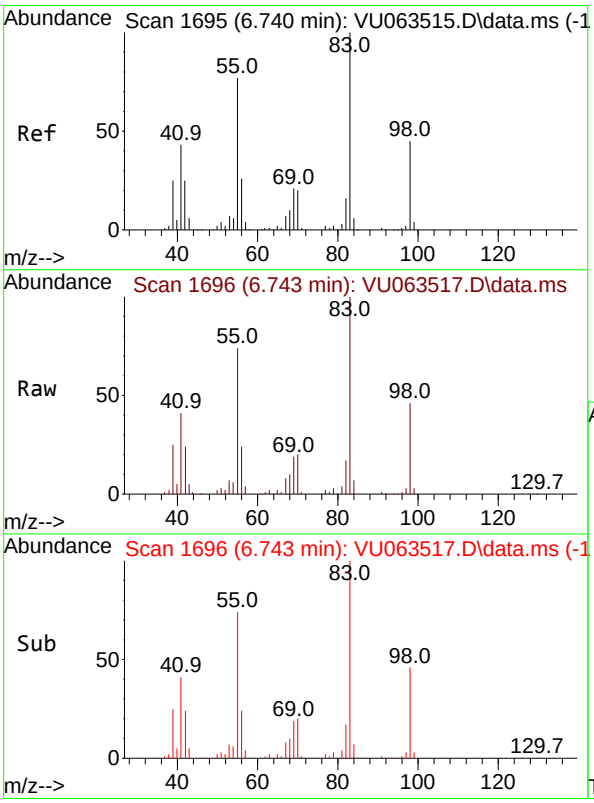
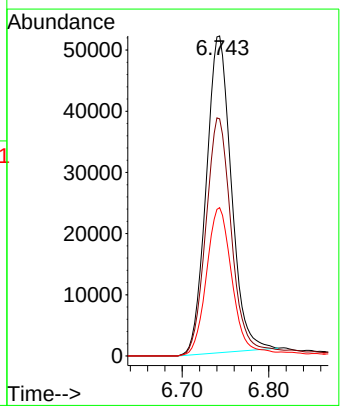
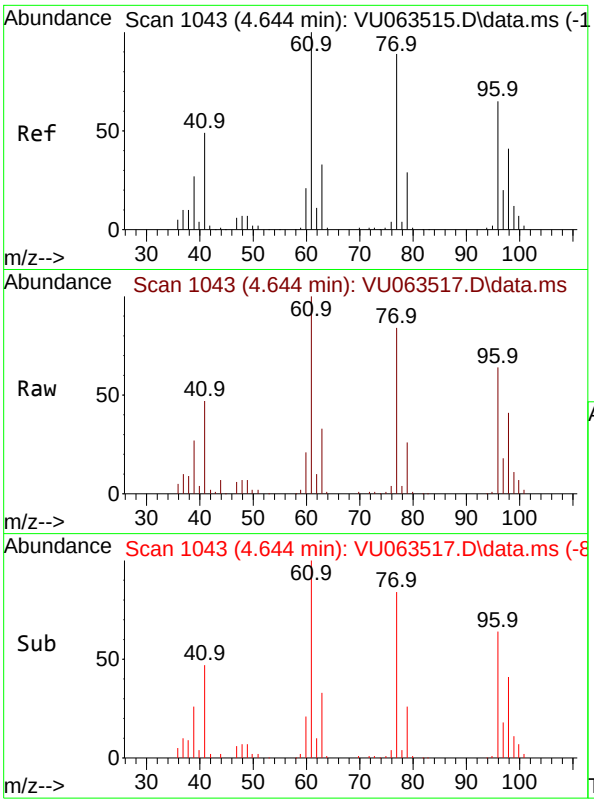


#20
Methylcyclohexane
Concen: 10.246 ug/l
RT: 6.743 min Scan# 1696
Delta R.T. 0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 83 Resp: 103883

Ion	Ratio	Lower	Upper
83	100		
55	75.1	60.6	90.8
98	48.3	35.8	53.8

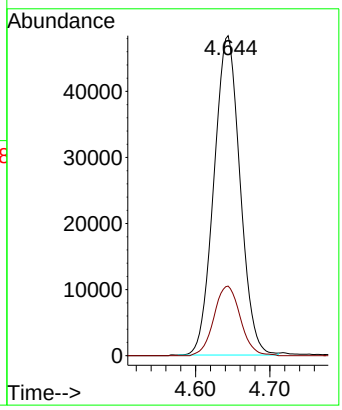




#21
2,2-Dichloropropane
Concen: 11.251 ug/l
RT: 4.644 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 77 Resp: 11803

Ion	Ratio	Lower	Upper
77	100		
97	22.1	17.8	26.8



Instrument :
MSVOA_U
ClientSampleId :
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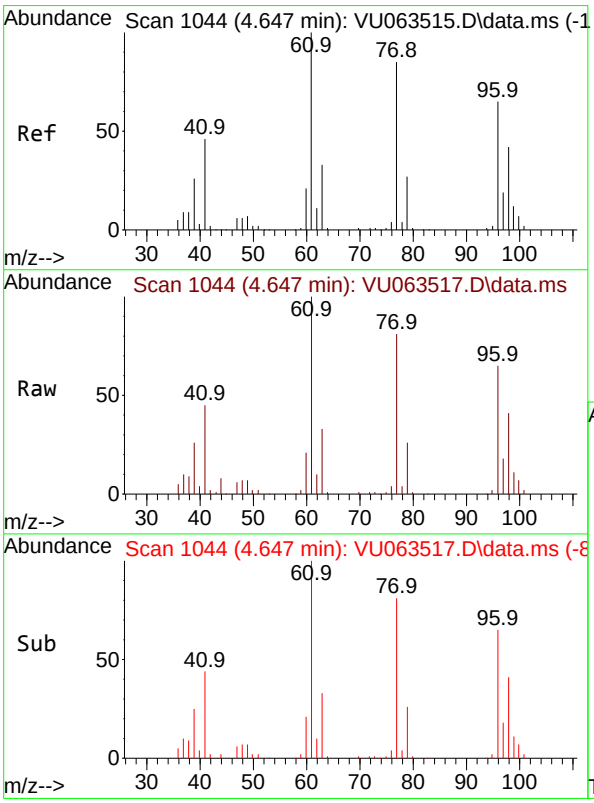
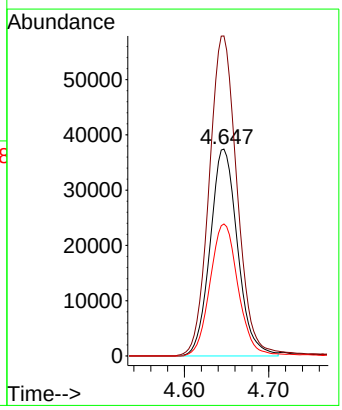
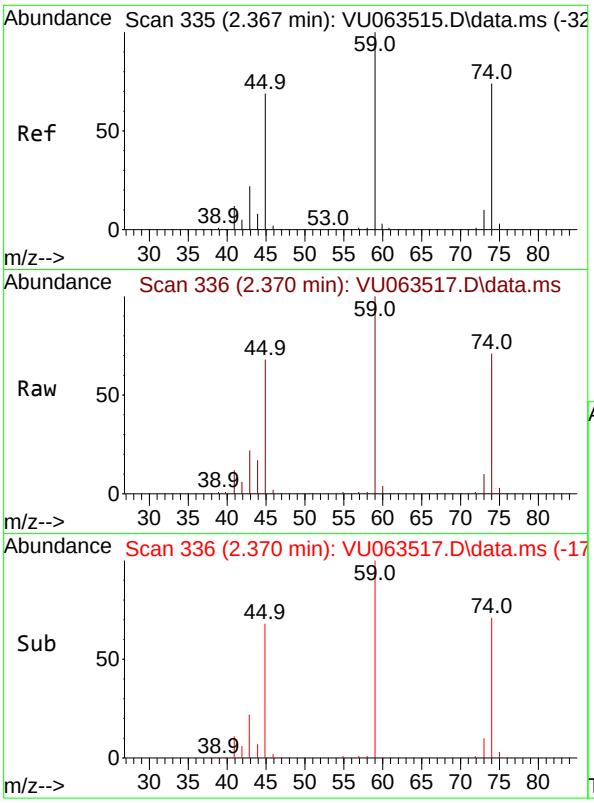


#22
cis-1,2-Dichloroethene
Concen: 11.753 ug/l
RT: 4.647 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 96 Resp: 84773

Ion	Ratio	Lower	Upper
96	100		
61	158.2	0.0	384.7
98	65.6	32.1	96.3

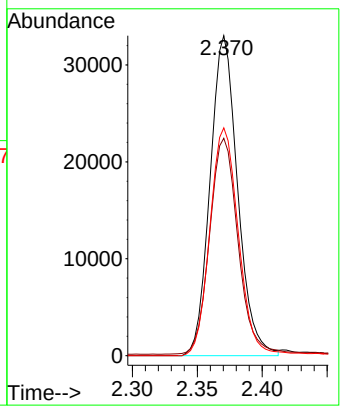




#23
Diethyl Ether
Concen: 10.895 ug/l
RT: 2.370 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 59 Resp: 4858

Ion	Ratio	Lower	Upper
59	100		
45	69.6	55.1	82.7
74	74.2	58.2	87.4



Instrument :
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ClientSampleId :
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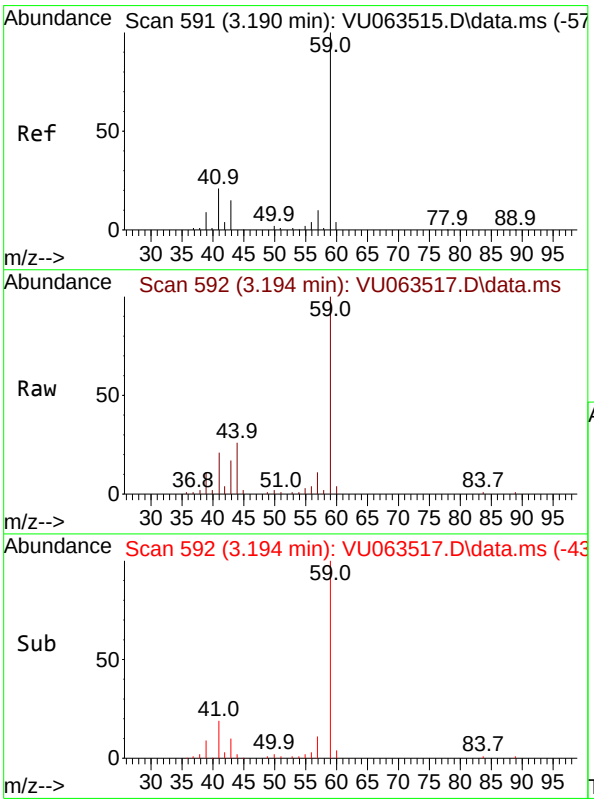
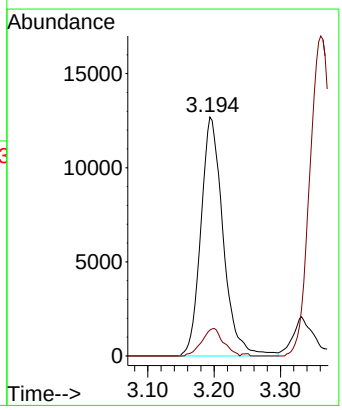
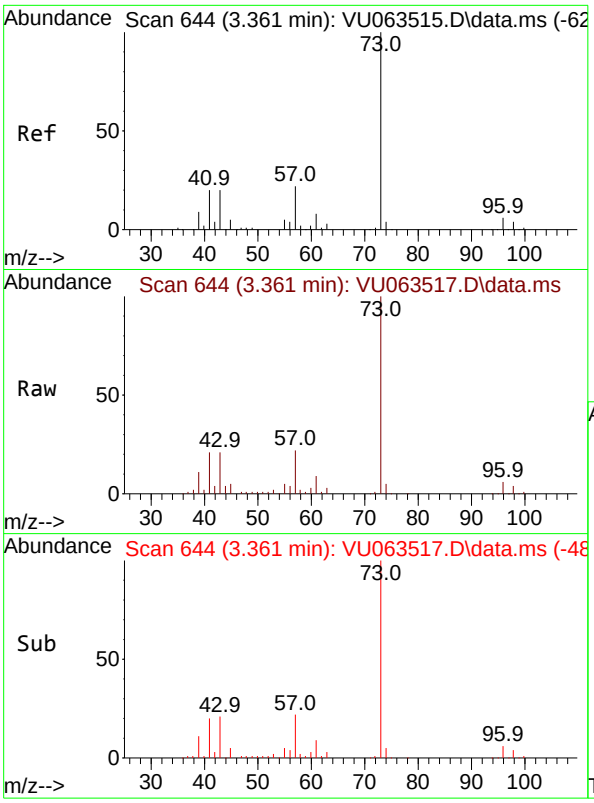


#24
tert-Butyl Alcohol
Concen: 54.858 ug/l
RT: 3.194 min Scan# 592
Delta R.T. 0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 59 Resp: 29533

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.6	12.8

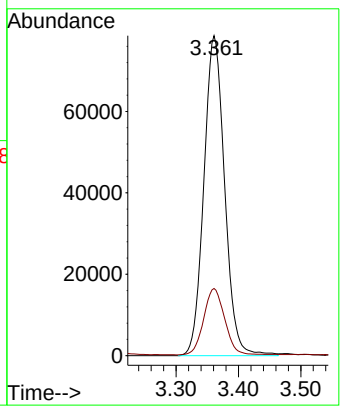




#25
Methyl tert-Butyl Ether
Concen: 11.931 ug/l
RT: 3.361 min Scan# 64
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 73 Resp: 18229

Ion	Ratio	Lower	Upper
73	100		
43	20.8	16.2	24.2



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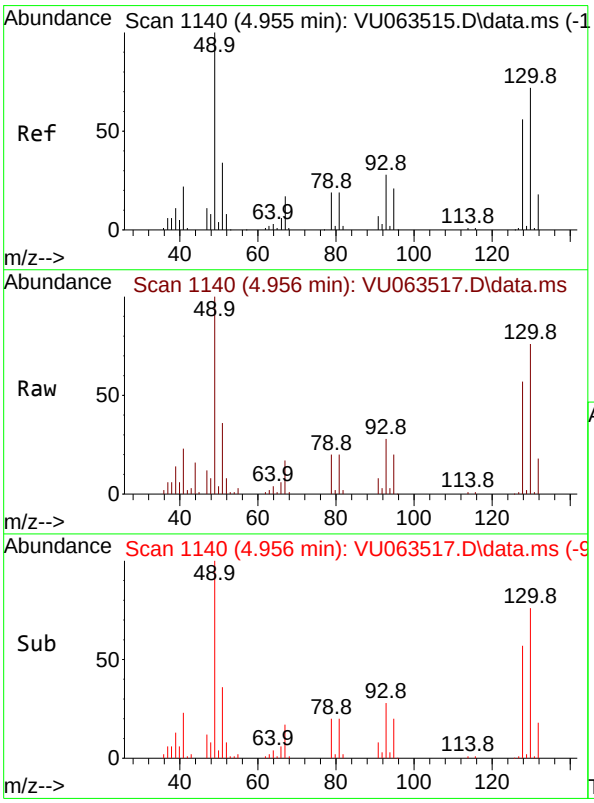
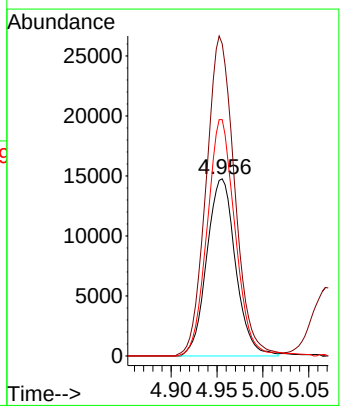
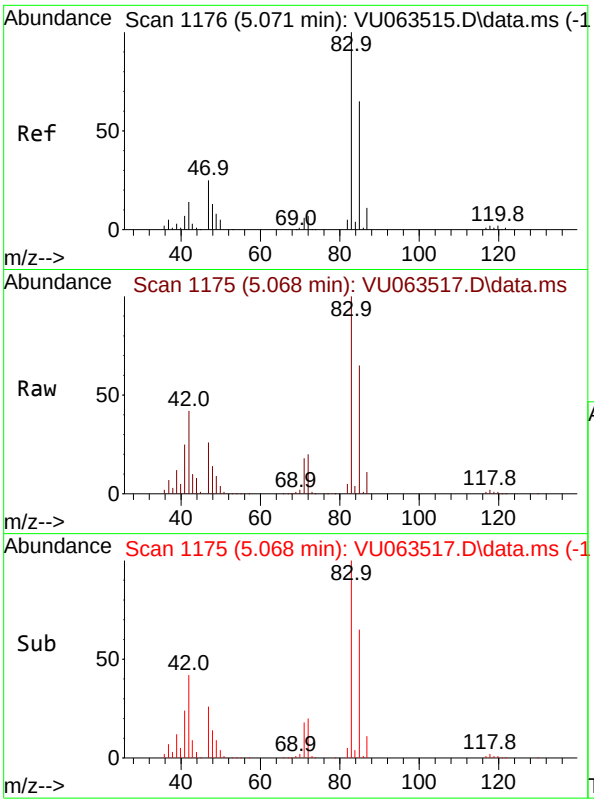


#26
Bromochloromethane
Concen: 10.701 ug/l
RT: 4.956 min Scan# 1140
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:128 Resp: 32227

Ion	Ratio	Lower	Upper
128	100		
49	178.8	0.0	340.8
130	128.9	100.5	150.7

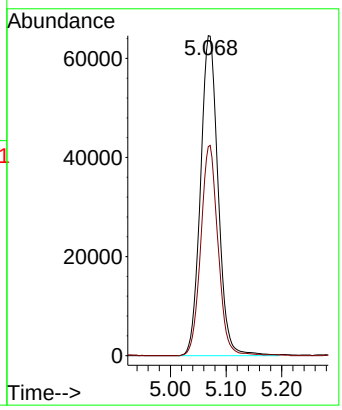




#27
Chloroform
Concen: 11.295 ug/l
RT: 5.068 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 83 Resp: 14199

Ion	Ratio	Lower	Upper
83	100		
85	65.3	0.0	130.0



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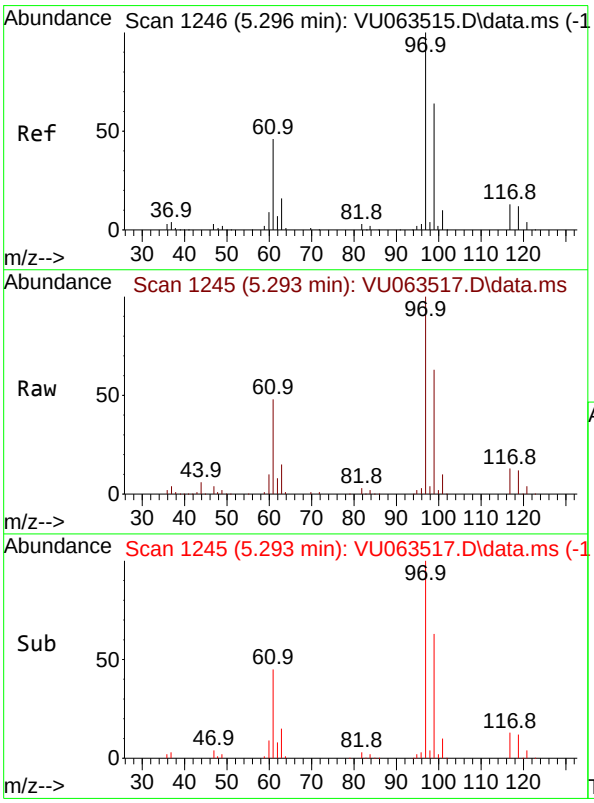
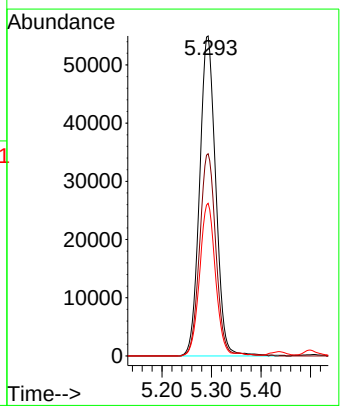
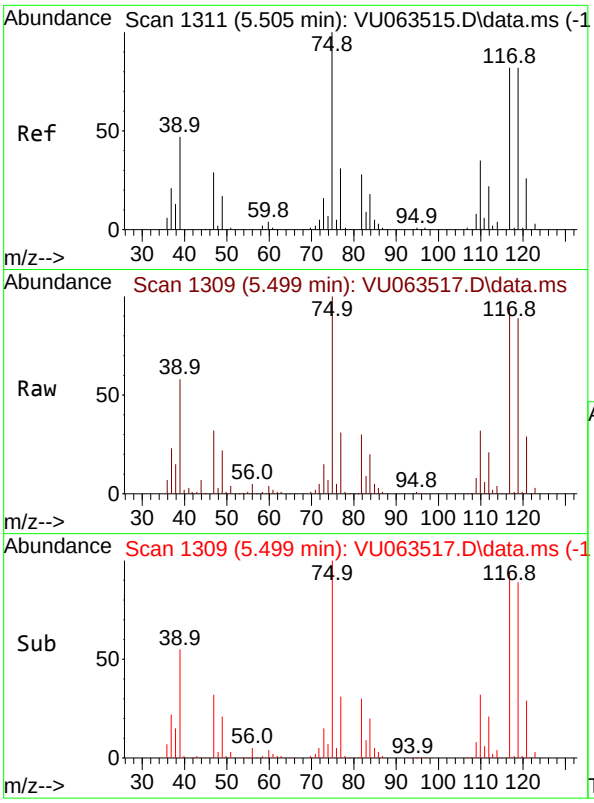


#28
1,1,1-Trichloroethane
Concen: 11.694 ug/l
RT: 5.293 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 97 Resp: 124774

Ion	Ratio	Lower	Upper
97	100		
99	63.6	31.8	95.3
61	46.7	23.3	69.9

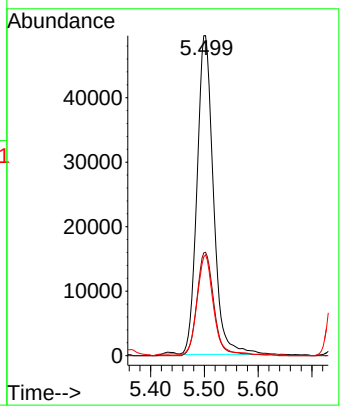




#29
1,1-Dichloropropene
Concen: 10.604 ug/l
RT: 5.499 min Scan# 1
Delta R.T. -0.006 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 75 Resp: 10481

Ion	Ratio	Lower	Upper
75	100		
110	33.1	17.8	53.4
77	30.1	24.6	37.0



Instrument :
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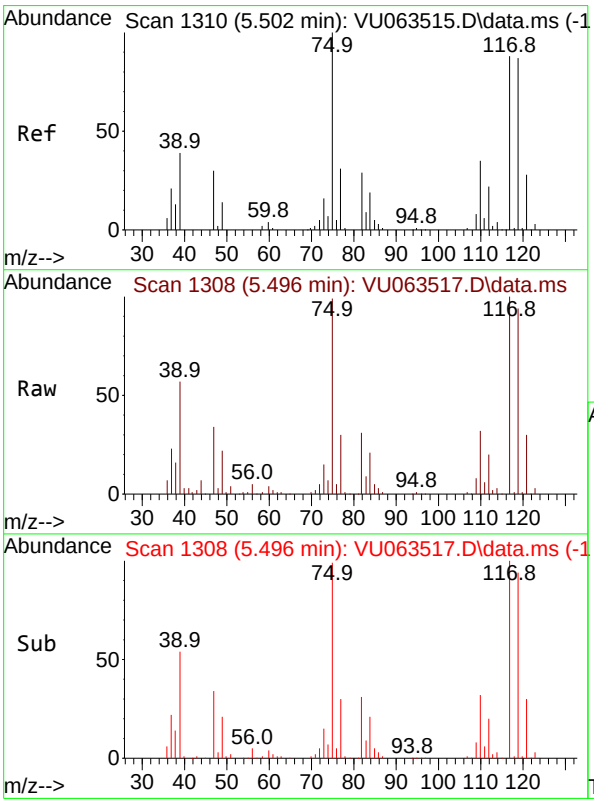
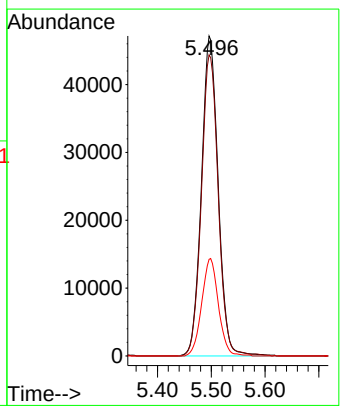
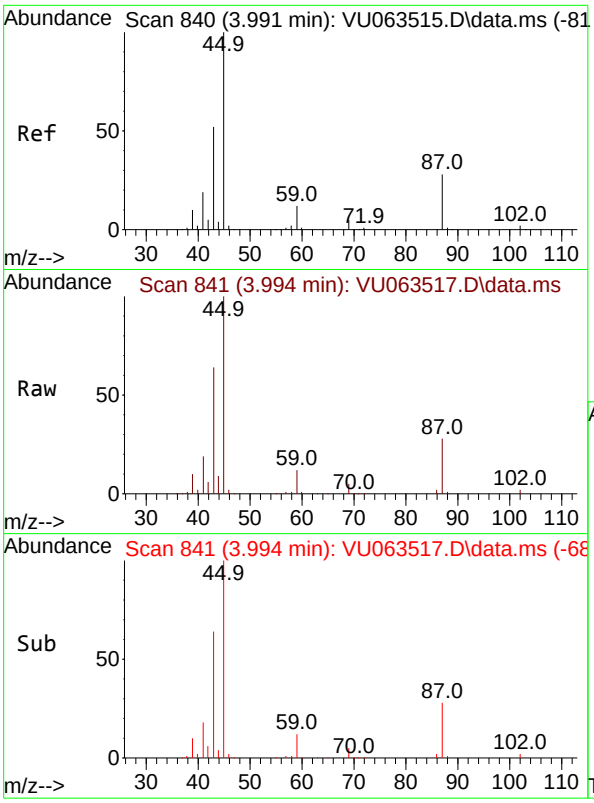


#30
Carbon Tetrachloride
Concen: 11.881 ug/l
RT: 5.496 min Scan# 1308
Delta R.T. -0.006 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:117 Resp: 102031

Ion	Ratio	Lower	Upper
117	100		
119	94.1	79.2	118.8
121	30.2	25.5	38.3

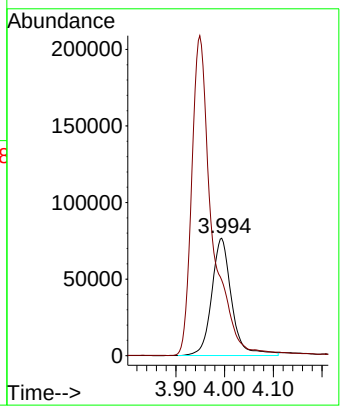




#31
Isopropyl Ether
Concen: 11.694 ug/l
RT: 3.994 min Scan# 84
Delta R.T. 0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 45 Resp: 21747

Ion	Ratio	Lower	Upper
45	100		
43	280.0	25.7	77.0



Instrument :
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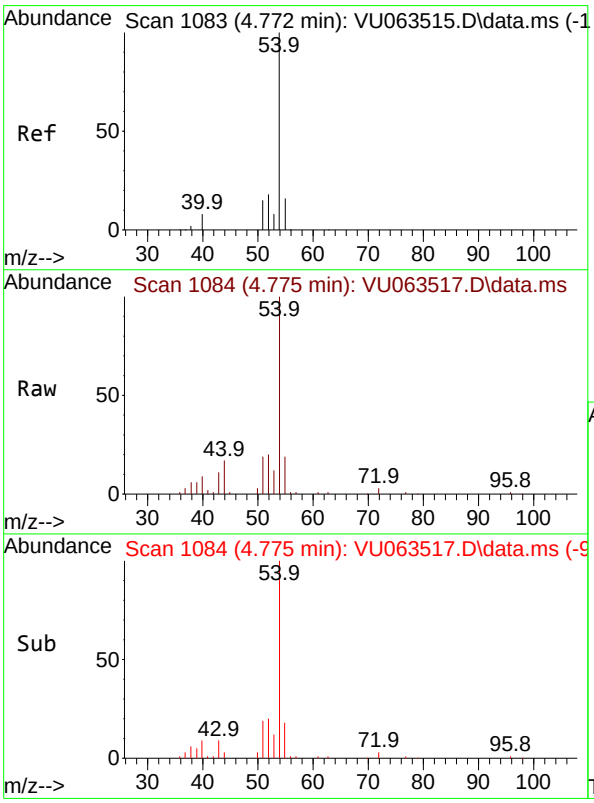
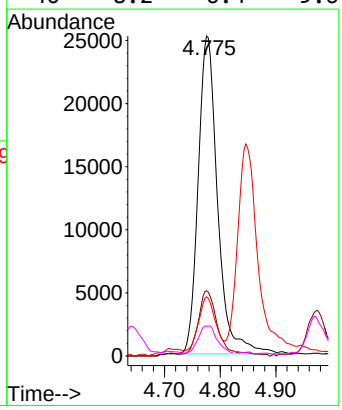
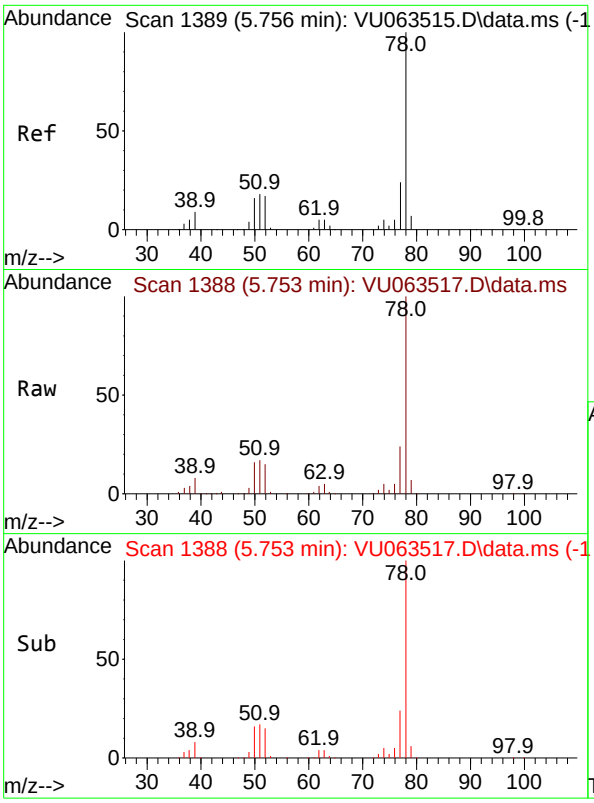


#34
Propionitrile
Concen: 110.315 ug/l
RT: 4.775 min Scan# 1084
Delta R.T. 0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 54 Resp: 61045

Ion	Ratio	Lower	Upper
54	100		
52	18.3	17.0	25.4
55	15.3	13.6	20.4
40	8.2	6.4	9.6





#35
Benzene
Concen: 9.485 ug/l
RT: 5.753 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 78 Resp: 25188

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.4	29.2

Instrument :
MSVOA_U
ClientSampleId :
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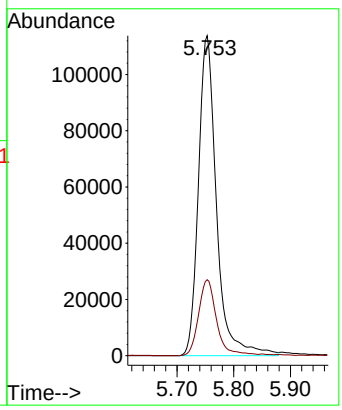
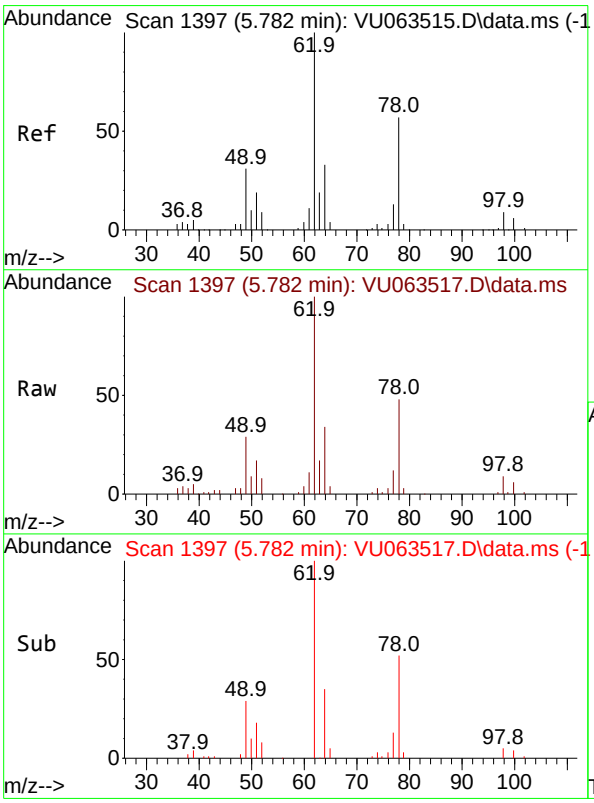
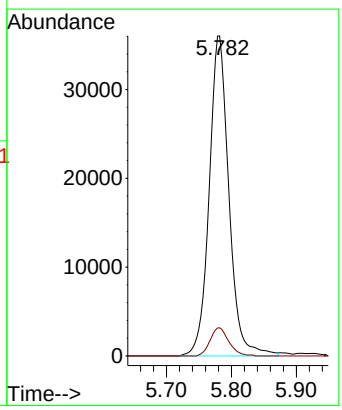


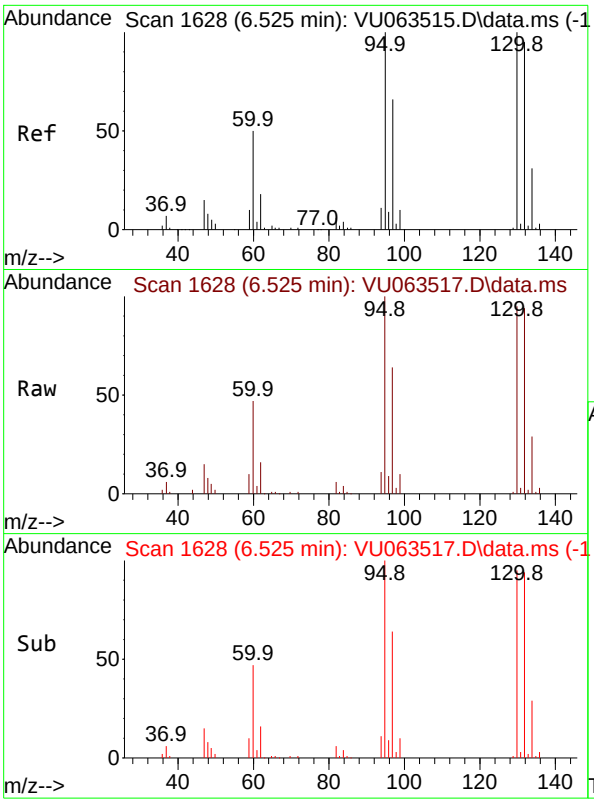


#36
1,2-Dichloroethane
Concen: 9.208 ug/l
RT: 5.782 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 62 Resp: 75983

Ion	Ratio	Lower	Upper
62	100		
98	8.4	6.4	9.6

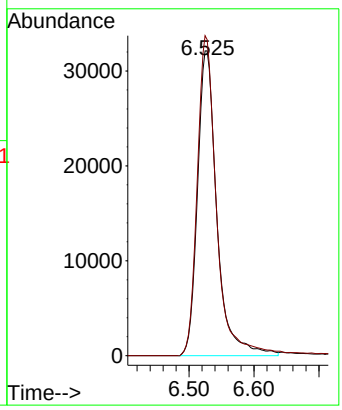




#37
Trichloroethene
Concen: 9.864 ug/l
RT: 6.525 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:130 Resp: 6683

Ion	Ratio	Lower	Upper
130	100		
95	105.0	80.3	120.5



Instrument :
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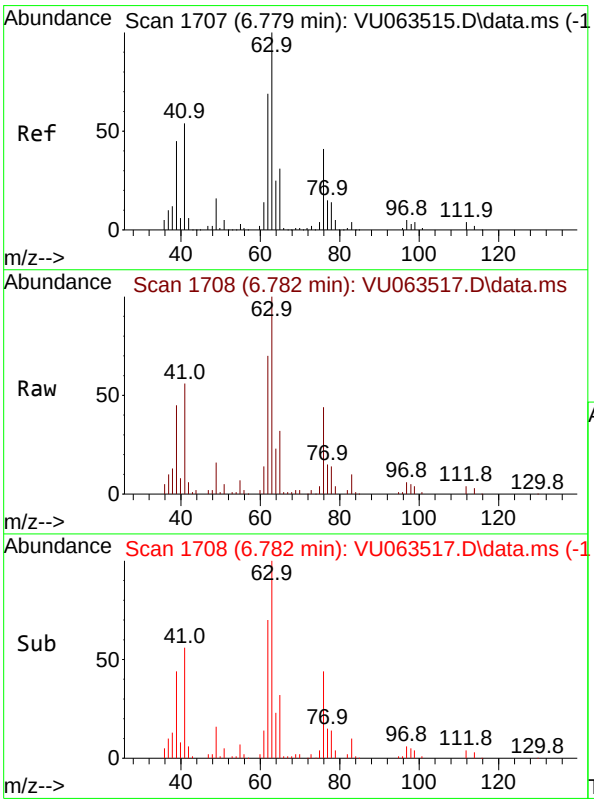
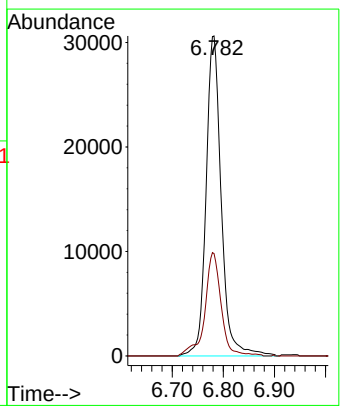
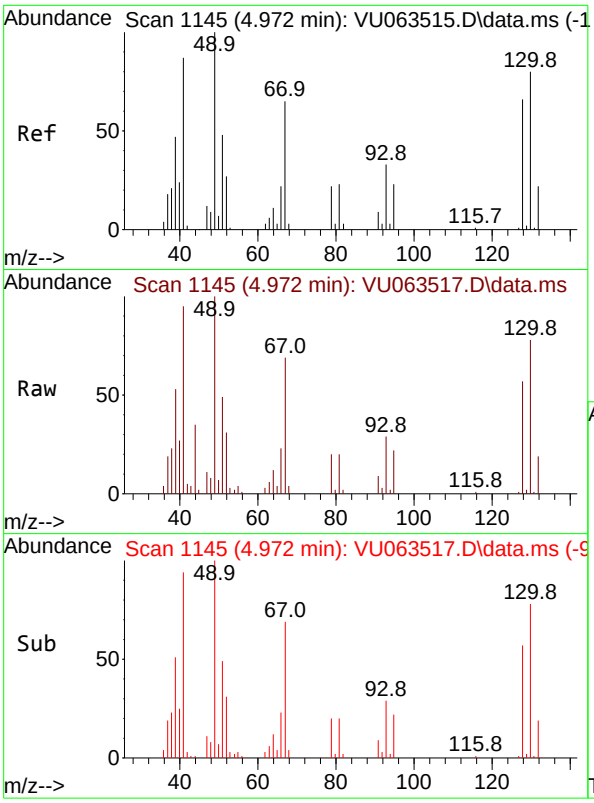


#38
1,2-Dichloropropane
Concen: 10.152 ug/l
RT: 6.782 min Scan# 1708
Delta R.T. 0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 63 Resp: 63102

Ion	Ratio	Lower	Upper
63	100		
65	32.0	24.6	36.8

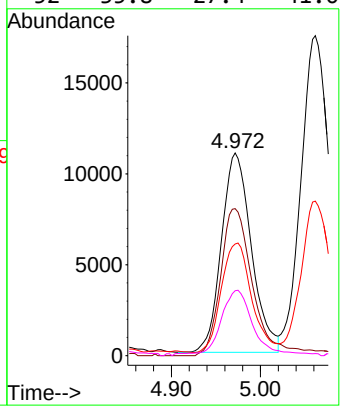




#39
Methacrylonitrile
Concen: 10.571 ug/l
RT: 4.972 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 41 Resp: 2567

Ion	Ratio	Lower	Upper
41	100		
67	80.4	62.7	94.1
39	55.5	43.1	64.7
52	35.8	27.4	41.0



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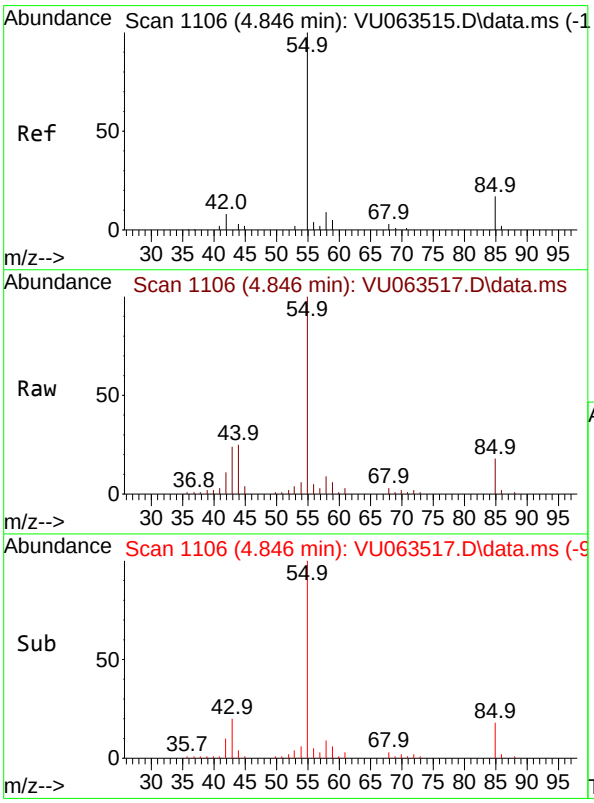
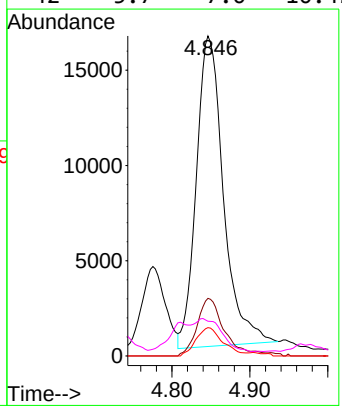
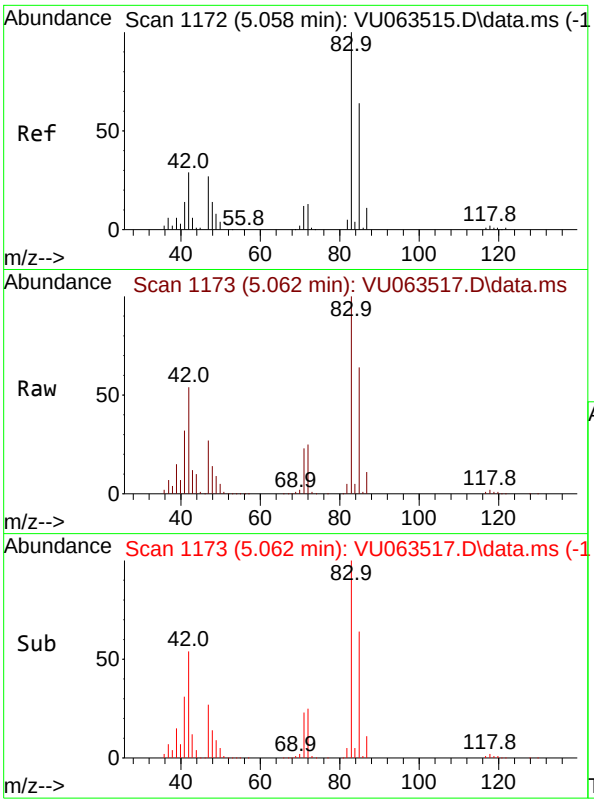


#40
Methyl acrylate
Concen: 10.962 ug/l
RT: 4.846 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 55 Resp: 39416

Ion	Ratio	Lower	Upper
55	100		
85	17.9	12.8	19.2
58	9.1	7.0	10.4
42	5.7	7.0	10.4#

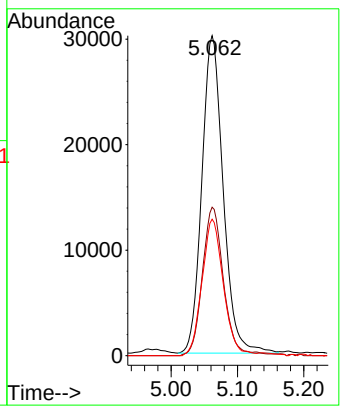




#41
Tetrahydrofuran
Concen: 52.040 ug/l
RT: 5.062 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 42 Resp: 6733

Ion	Ratio	Lower	Upper
42	100		
72	45.7	39.2	58.8
71	42.9	34.8	52.2



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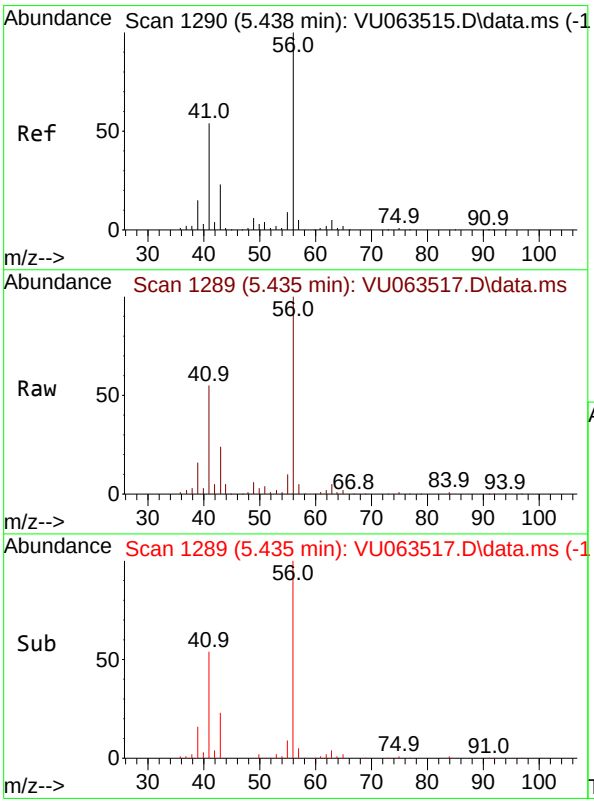
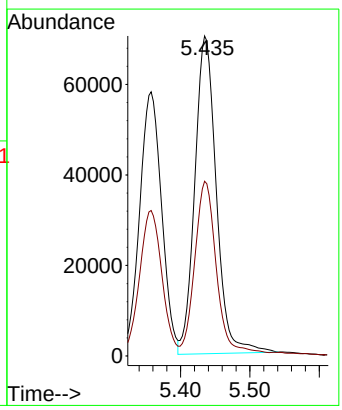
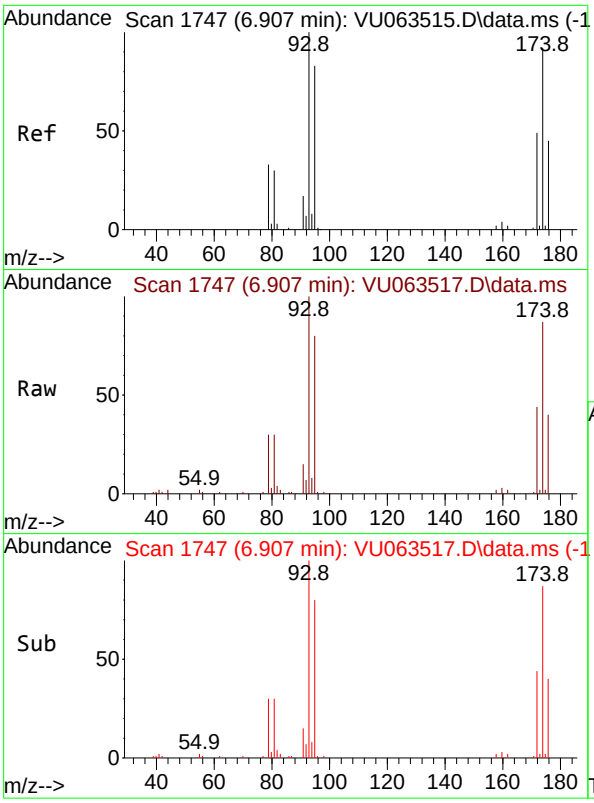


#42
1-Chlorobutane
Concen: 11.532 ug/l
RT: 5.435 min Scan# 1289
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 56 Resp: 151540

Ion	Ratio	Lower	Upper
56	100		
41	53.7	26.7	80.0

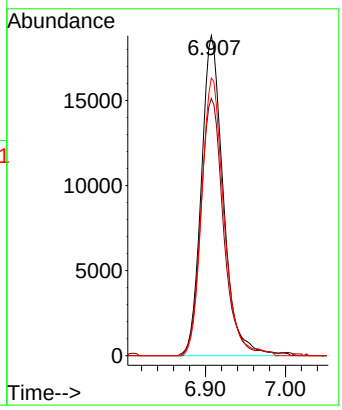




#43
Dibromomethane
Concen: 11.149 ug/l
RT: 6.907 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 93 Resp: 3589

Ion	Ratio	Lower	Upper
93	100		
95	83.7	67.9	101.9
174	88.0	74.6	111.8



Instrument :
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ClientSampleId :
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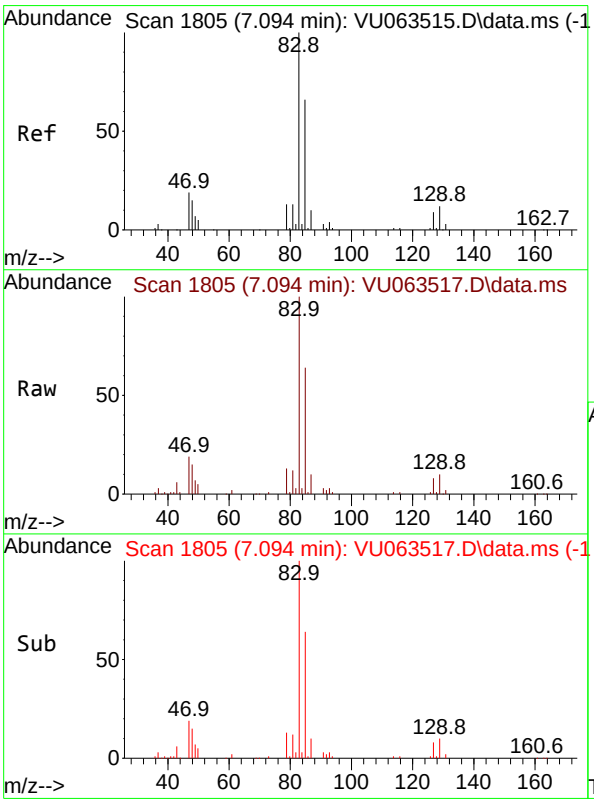
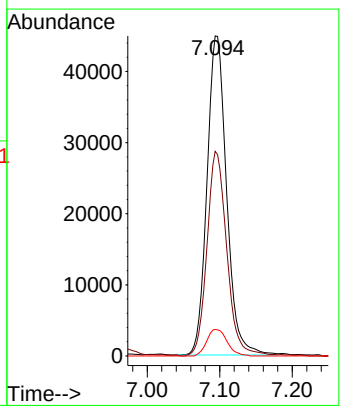
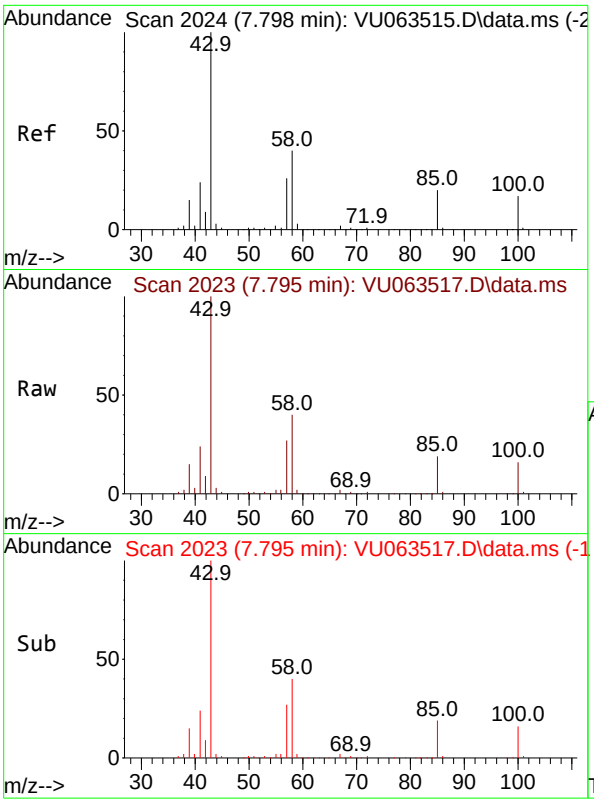


#44
Bromodichloromethane
Concen: 11.611 ug/l
RT: 7.094 min Scan# 1805
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 83 Resp: 84311

Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.7	79.1
127	8.3	8.1	12.1

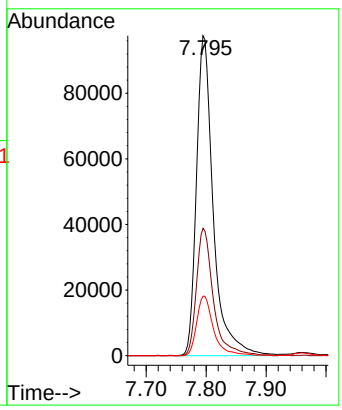




#45
4-Methyl-2-Pentanone
Concen: 57.520 ug/l
RT: 7.795 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 43 Resp: 19087

Ion	Ratio	Lower	Upper
43	100		
58	39.9	20.0	60.0
85	18.7	15.4	23.0



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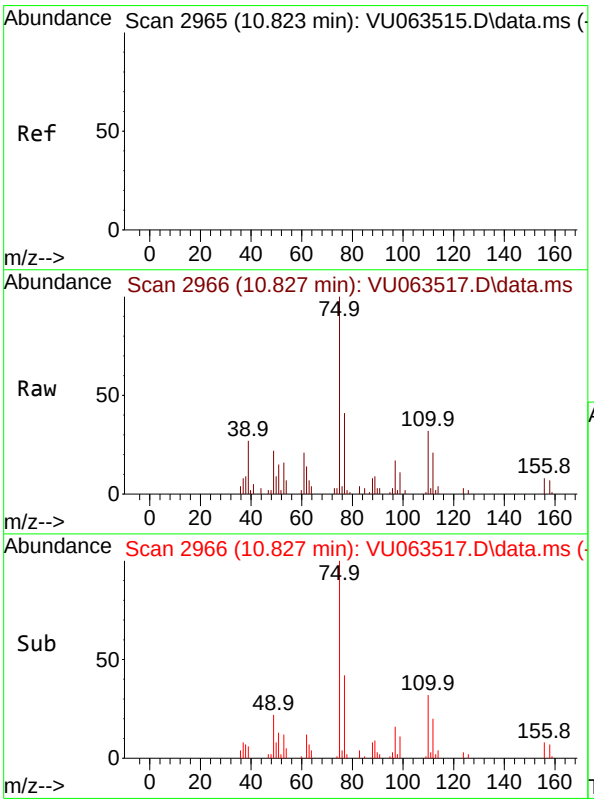
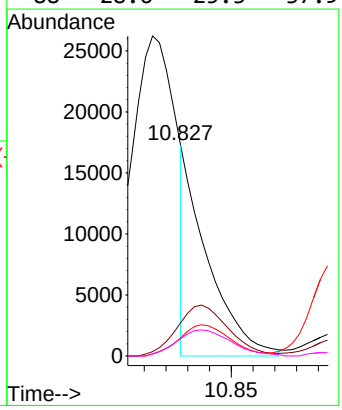
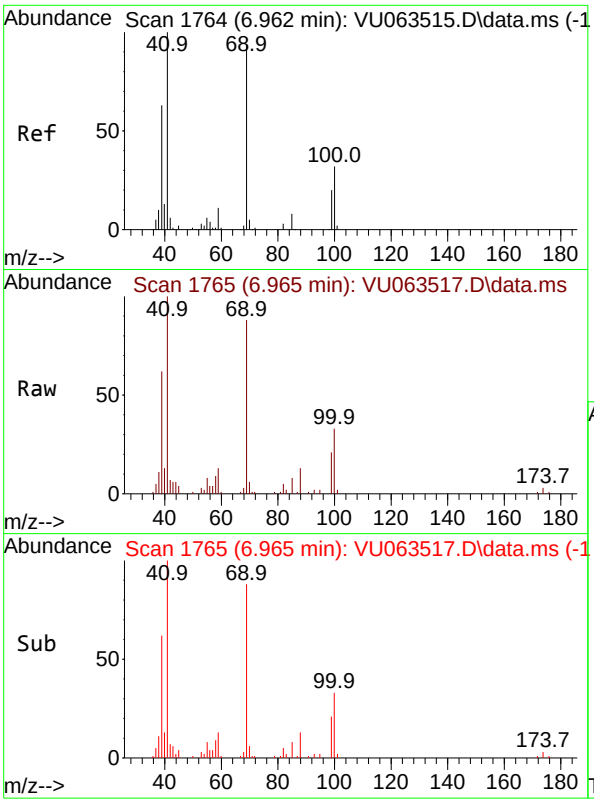


#46
t-1,4-Dichloro-2-butene
Concen: 10.924 ug/l m
RT: 10.827 min Scan# 2966
Delta R.T. 0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 75 Resp: 12861

Ion	Ratio	Lower	Upper
75	100		
53	53.4	48.4	72.6
89	32.0	30.6	45.8
88	28.6	25.3	37.9

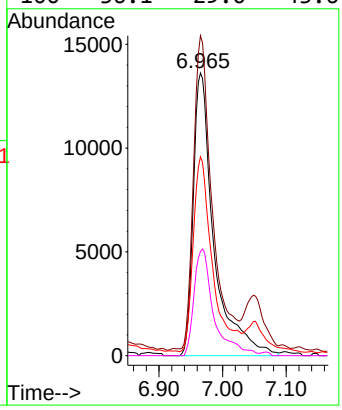




#47
Methyl methacrylate
Concen: 11.336 ug/l
RT: 6.965 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 69 Resp: 3065

Ion	Ratio	Lower	Upper
69	100		
41	100.5	0.0	224.0
39	64.1	55.3	82.9
100	36.1	29.0	43.6



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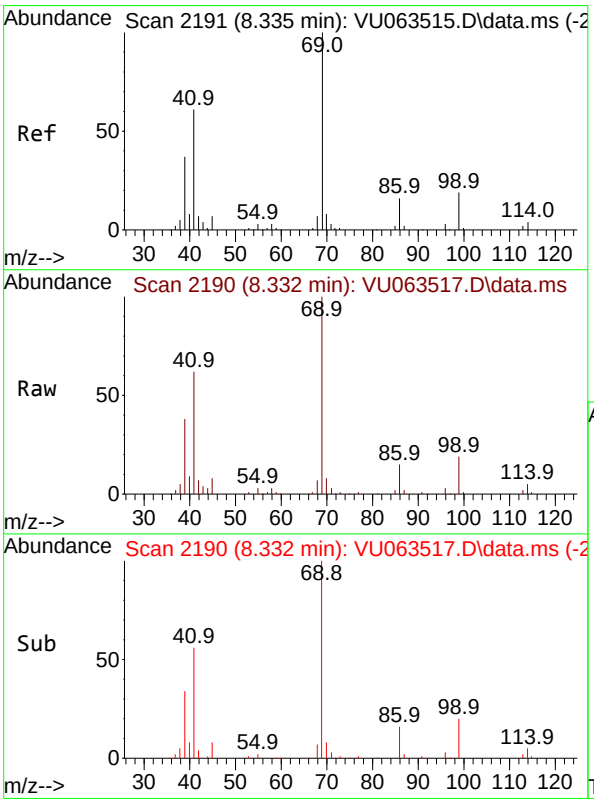
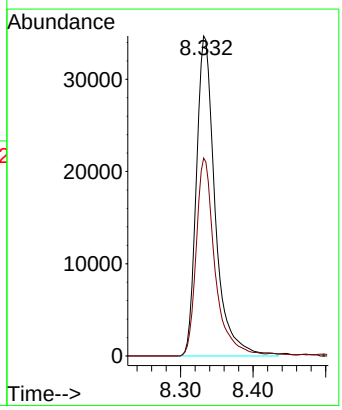
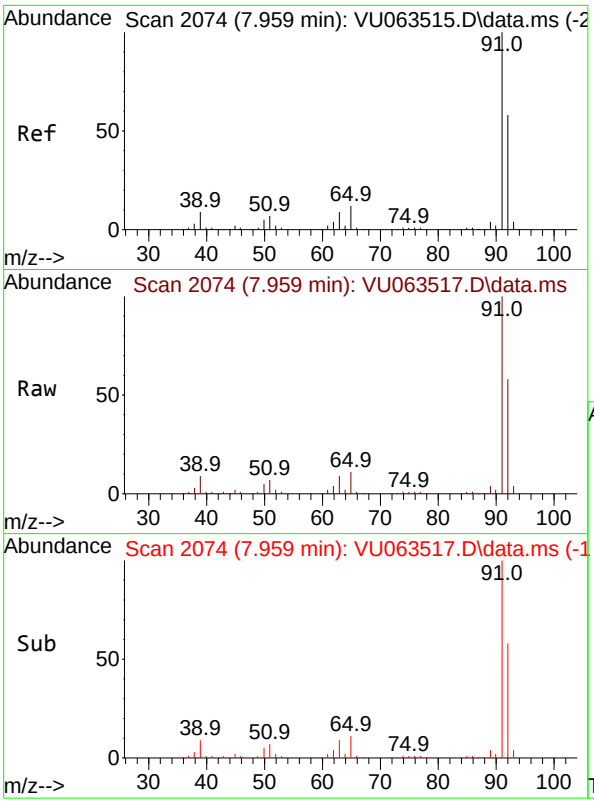


#48
Ethyl methacrylate
Concen: 12.064 ug/l
RT: 8.332 min Scan# 2190
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 69 Resp: 62257

Ion	Ratio	Lower	Upper
69	100		
41	61.9	30.8	92.4

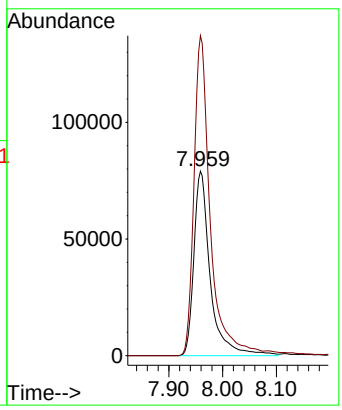




#49
Toluene
Concen: 11.565 ug/l
RT: 7.959 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 92 Resp: 16769

Ion	Ratio	Lower	Upper
92	100		
91	171.2	140.4	210.6



Instrument :
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ClientSampleId :
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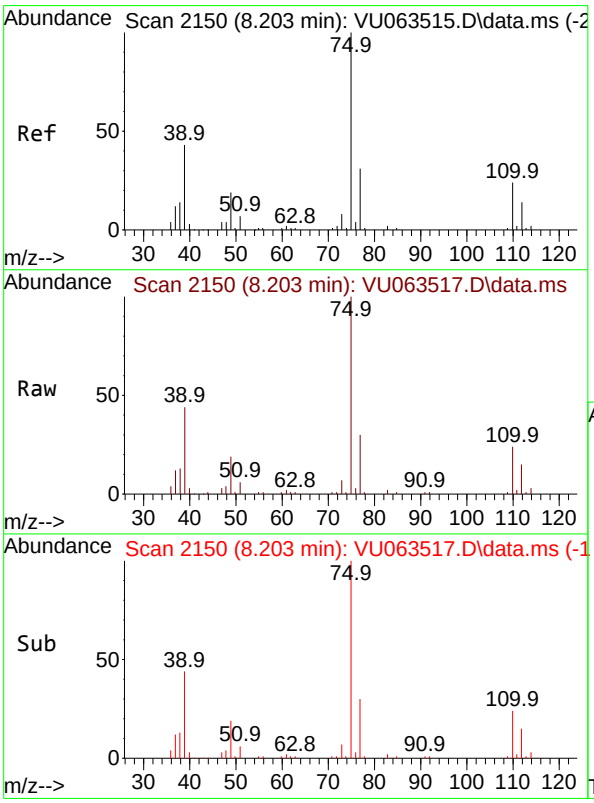
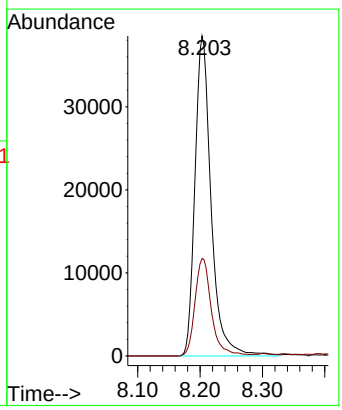
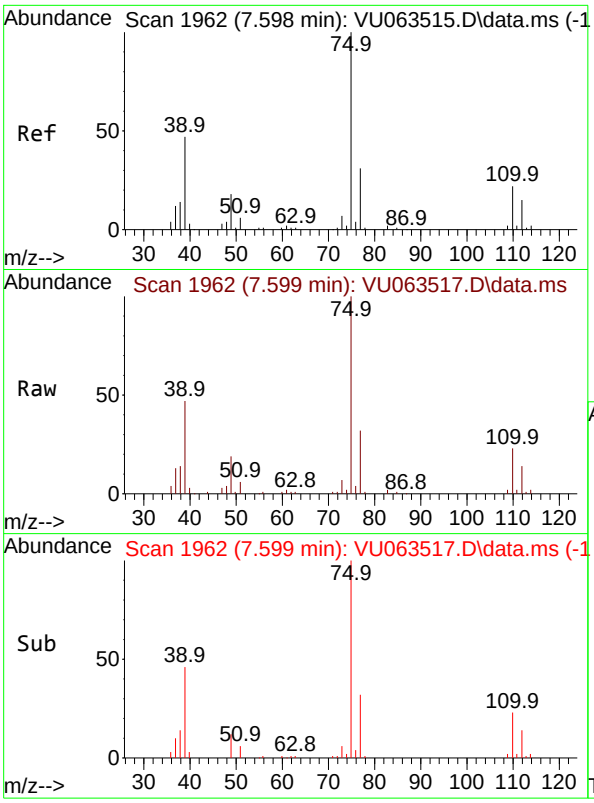


#50
t-1,3-Dichloropropene
Concen: 12.160 ug/l
RT: 8.203 min Scan# 2150
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 75 Resp: 69274

Ion	Ratio	Lower	Upper
75	100		
77	30.5	24.9	37.3

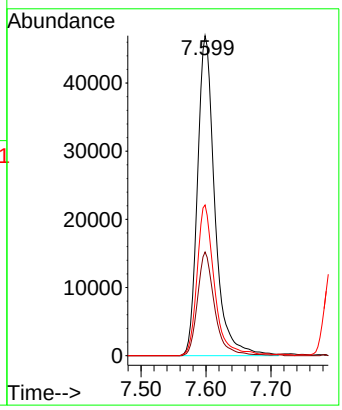




#51
cis-1,3-Dichloropropene
Concen: 11.406 ug/l
RT: 7.599 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 75 Resp: 8722

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.1	37.7
39	47.1	37.8	56.6



Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

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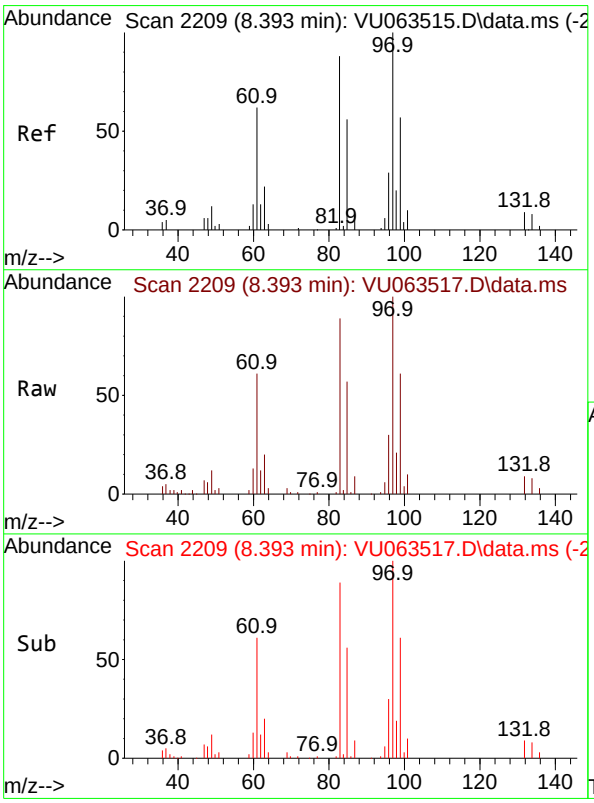
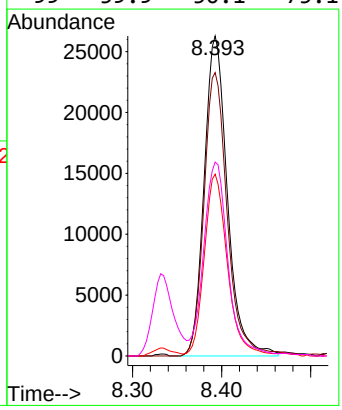
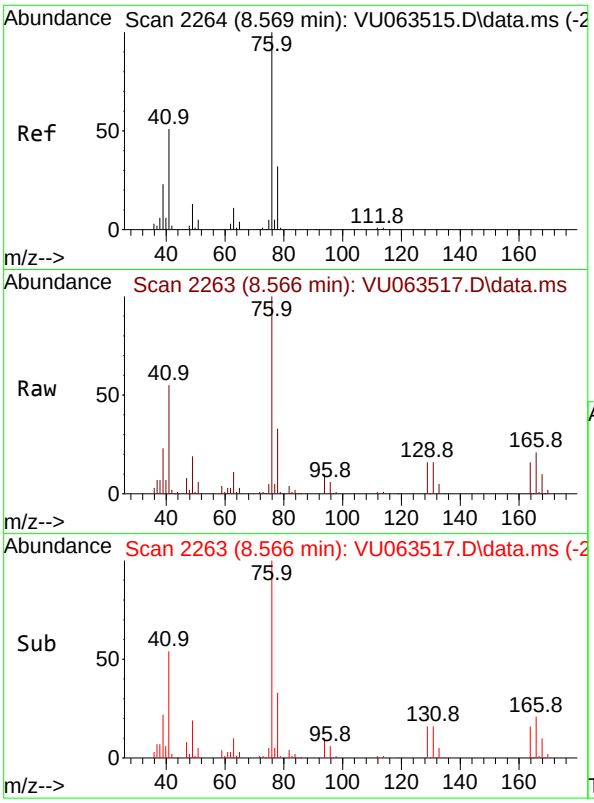


#52
1,1,2-Trichloroethane
Concen: 10.973 ug/l
RT: 8.393 min Scan# 2209
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 97 Resp: 47565

Ion	Ratio	Lower	Upper
97	100		
83	88.5	70.2	105.2
85	56.0	45.2	67.8
99	59.9	50.1	75.1

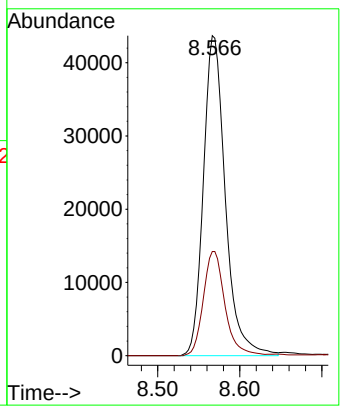




#53
1,3-Dichloropropane
Concen: 10.849 ug/l
RT: 8.566 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 76 Resp: 8119

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.0	39.0



Instrument :
MSVOA_U
ClientSampleId :
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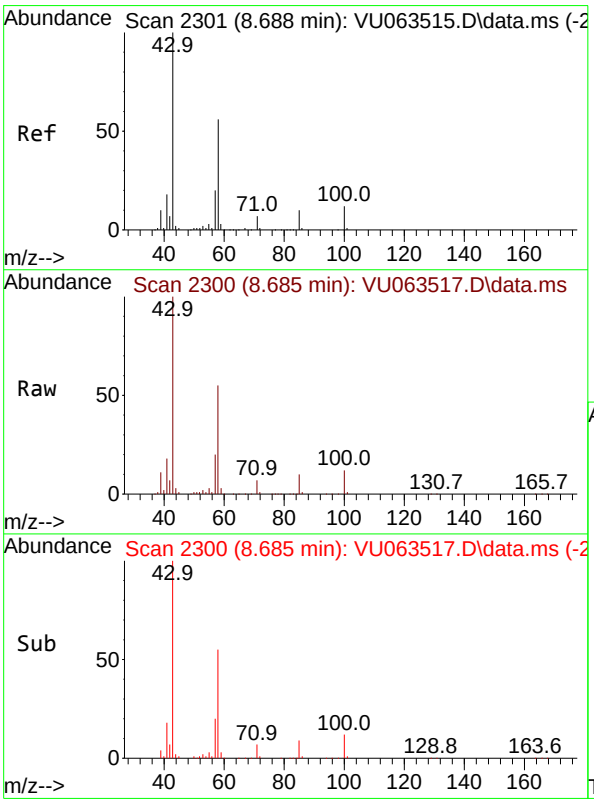
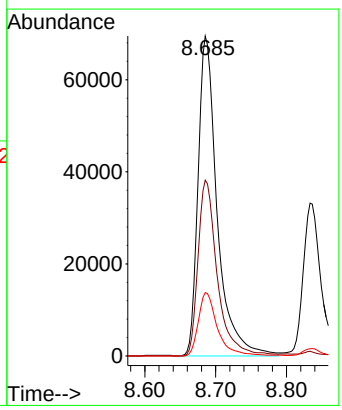
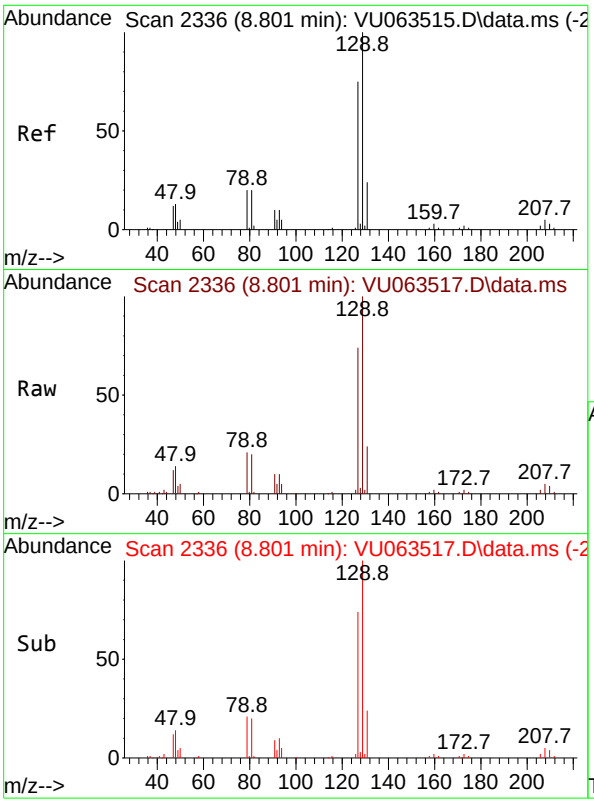


#54
2-Hexanone
Concen: 59.254 ug/l
RT: 8.685 min Scan# 2300
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 43 Resp: 130609

Ion	Ratio	Lower	Upper
43	100		
58	55.3	34.8	74.8
57	19.7	0.0	39.5

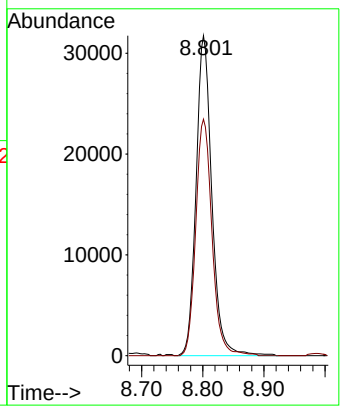




#55
Dibromochloromethane
Concen: 12.417 ug/l
RT: 8.801 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:129 Resp: 5688

Ion	Ratio	Lower	Upper
129	100		
127	76.2	60.1	90.1



Instrument :
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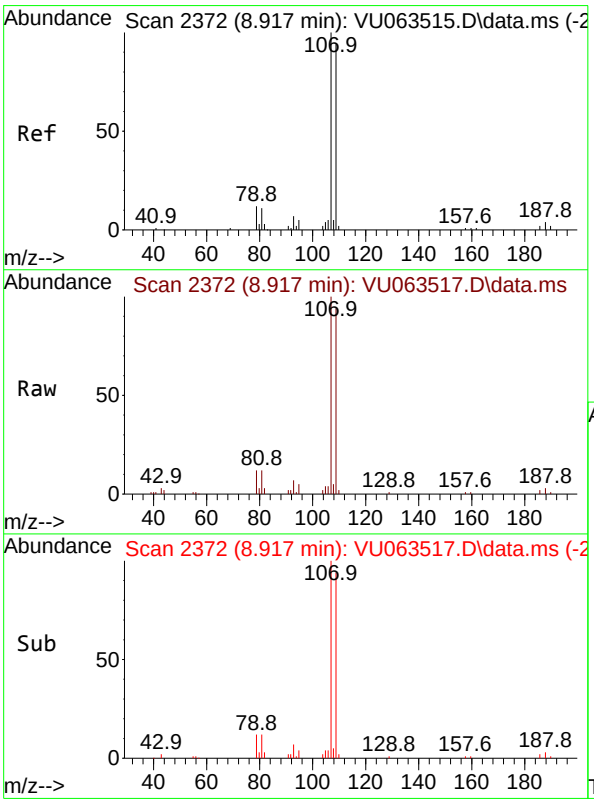
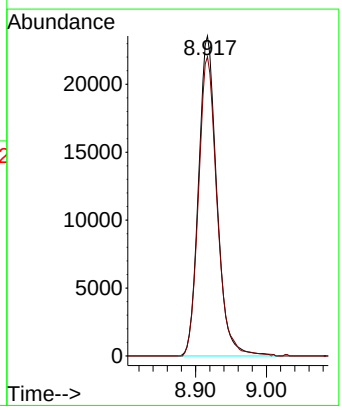
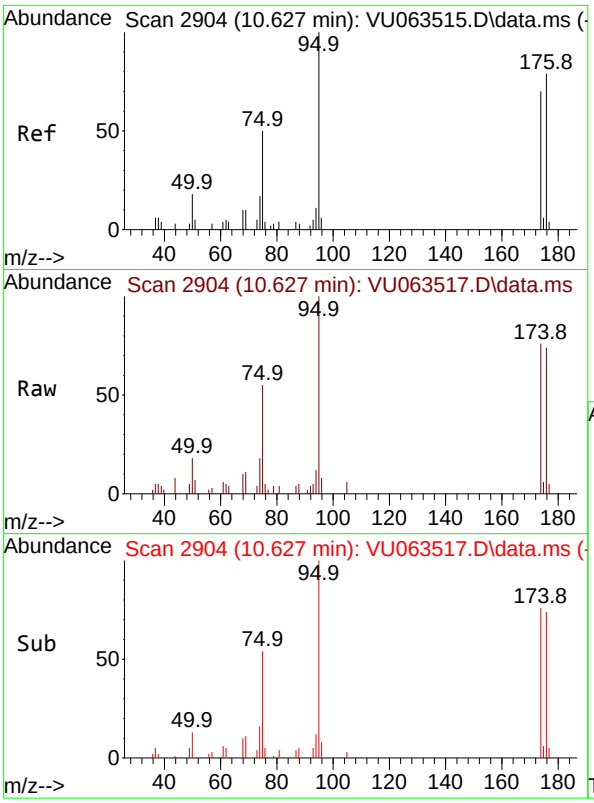


#56
1,2-Dibromoethane
Concen: 10.846 ug/l
RT: 8.917 min Scan# 2372
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:107 Resp: 42078

Ion	Ratio	Lower	Upper
107	100		
109	95.2	0.0	186.4

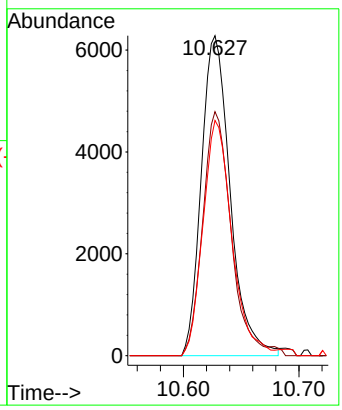




#57
4-Bromofluorobenzene
Concen: 1.279 ug/l
RT: 10.627 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 95 Resp: 1091

Ion	Ratio	Lower	Upper
95	100		
174	75.3	59.8	89.8
176	73.5	61.8	92.8



Instrument :
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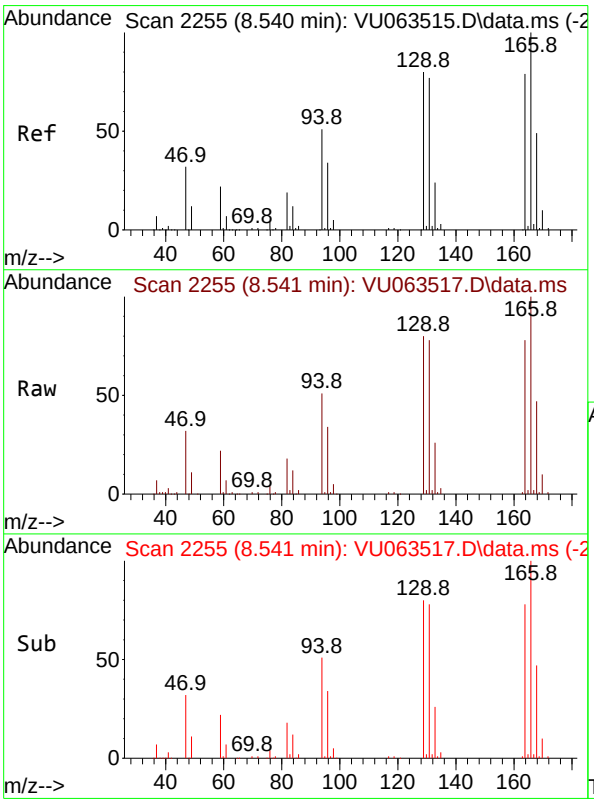
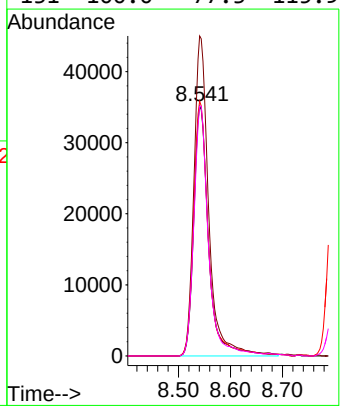
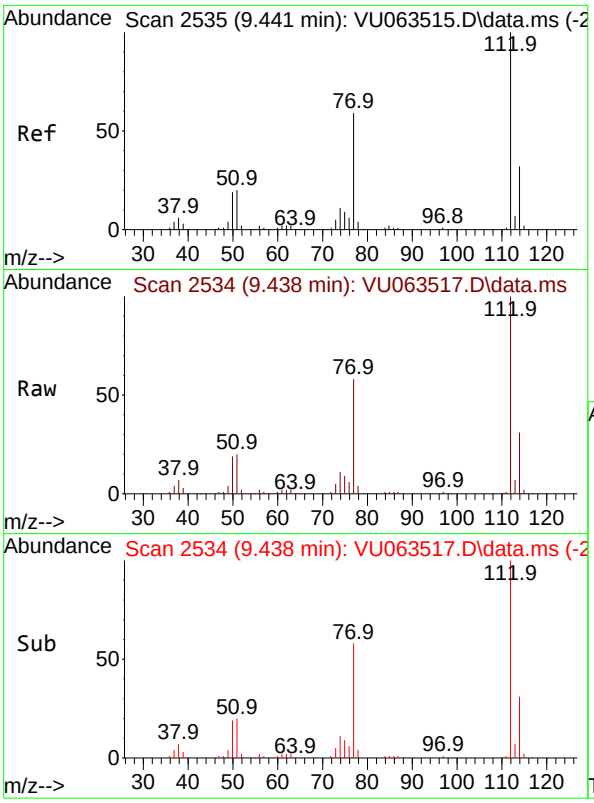


#58
Tetrachloroethene
Concen: 11.312 ug/l
RT: 8.541 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:164 Resp: 70149

Ion	Ratio	Lower	Upper
164	100		
166	128.1	100.7	151.1
129	102.0	80.6	120.8
131	100.0	77.3	115.9

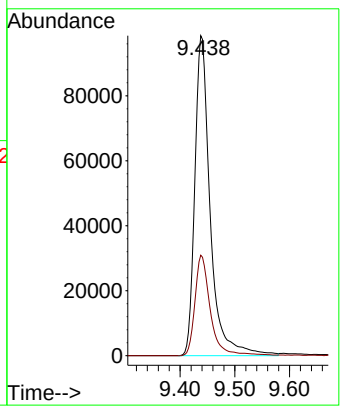




#59
Chlorobenzene
Concen: 11.557 ug/l
RT: 9.438 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:112 Resp: 19247

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.4	38.2



Instrument :
MSVOA_U
ClientSampleId :
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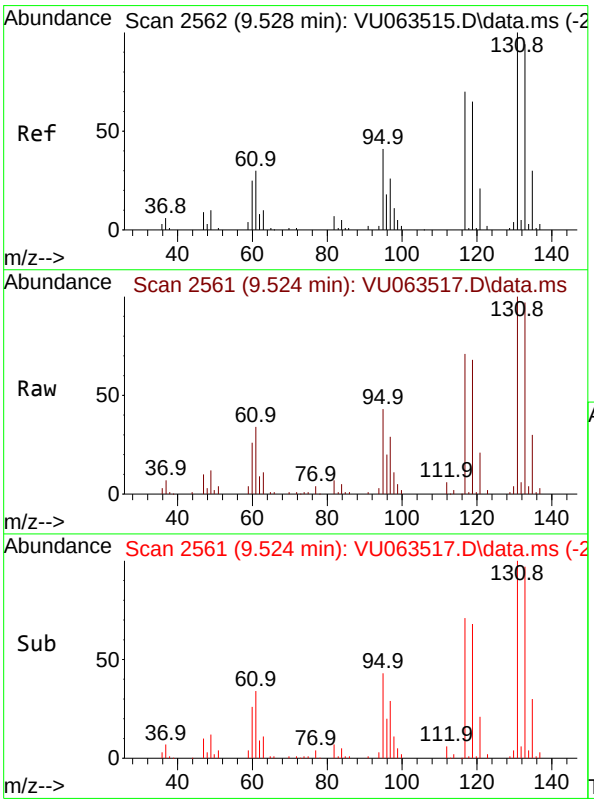
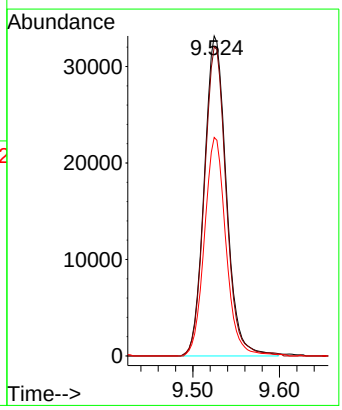
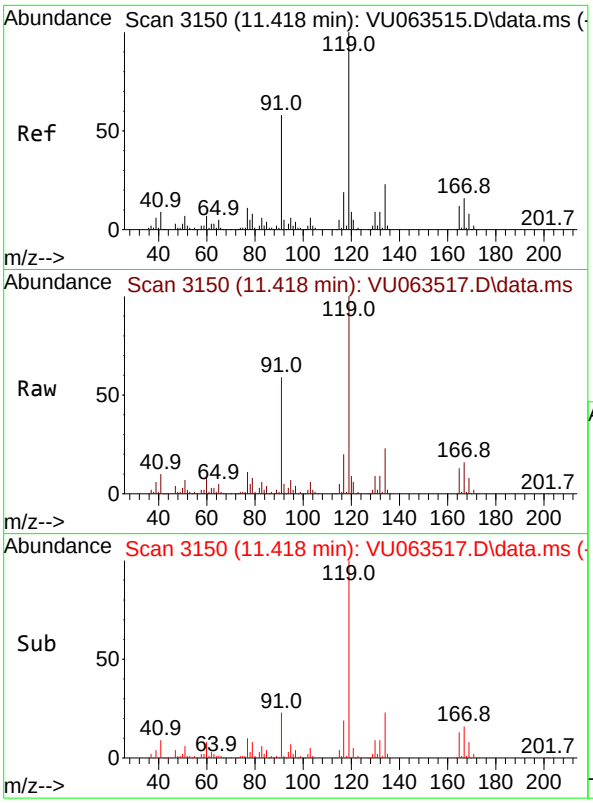


#60
1,1,1,2-Tetrachloroethane
Concen: 10.964 ug/l
RT: 9.524 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:131 Resp: 58716

Ion	Ratio	Lower	Upper
131	100		
133	95.9	74.7	112.1
119	66.7	53.0	79.4

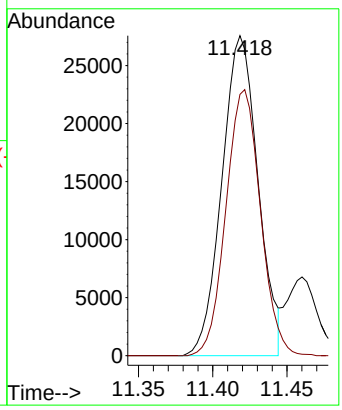




#61
Pentachloroethane
Concen: 12.325 ug/l
RT: 11.418 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:117 Resp: 4664

Ion	Ratio	Lower	Upper
117	100		
167	79.4	65.0	97.6



Instrument :
MSVOA_U
ClientSampleId :
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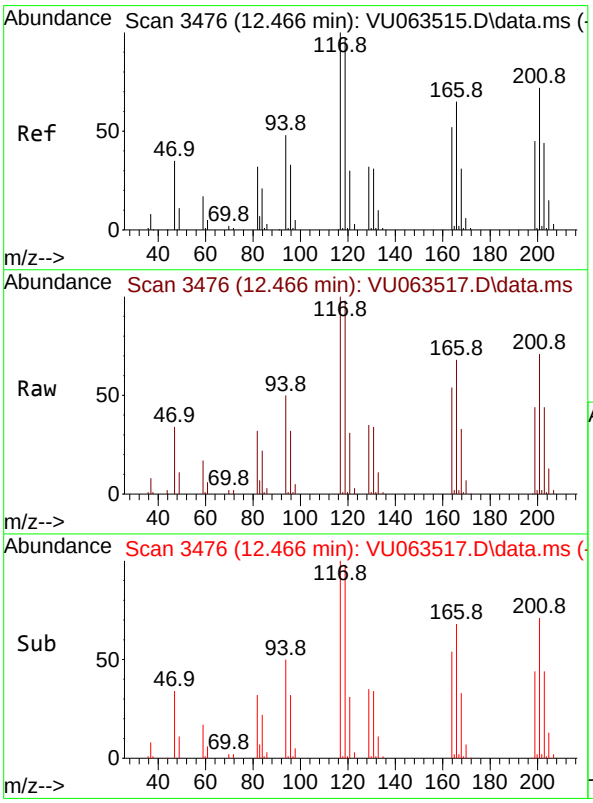
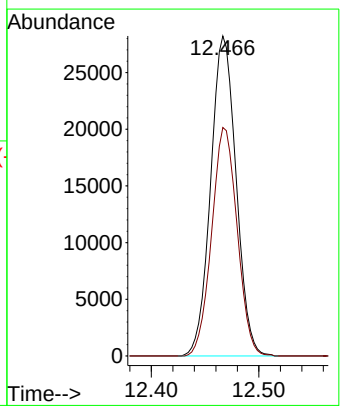
Supervised By :Semsettin Yesilyurt 07/17/2025

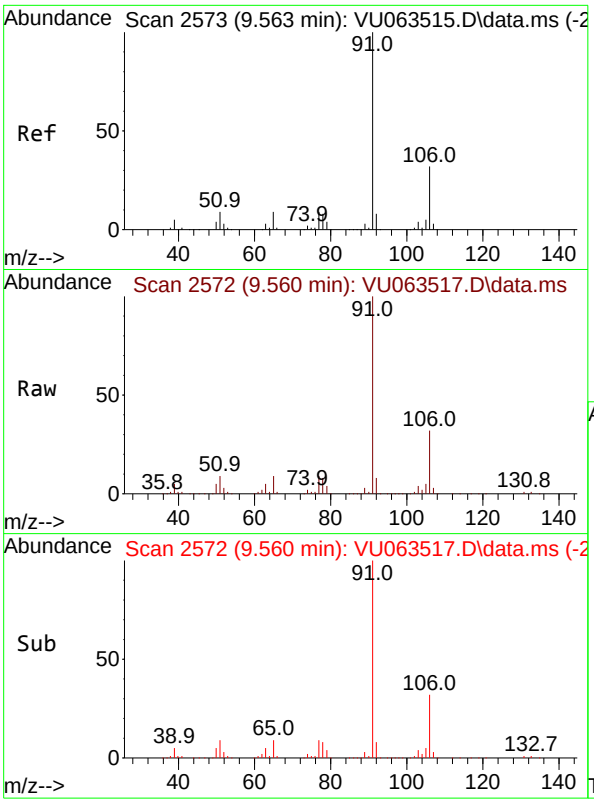


#62
Hexachloroethane
Concen: 12.375 ug/l
RT: 12.466 min Scan# 3476
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:117 Resp: 46374

Ion	Ratio	Lower	Upper
117	100		
201	71.5	57.4	86.0

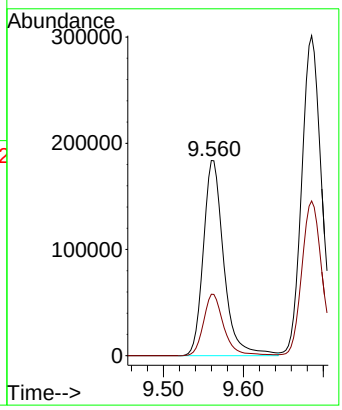




#63
Ethyl Benzene
Concen: 11.440 ug/l
RT: 9.560 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 91 Resp: 32785

Ion	Ratio	Lower	Upper
91	100		
106	31.5	25.4	38.0



Instrument :
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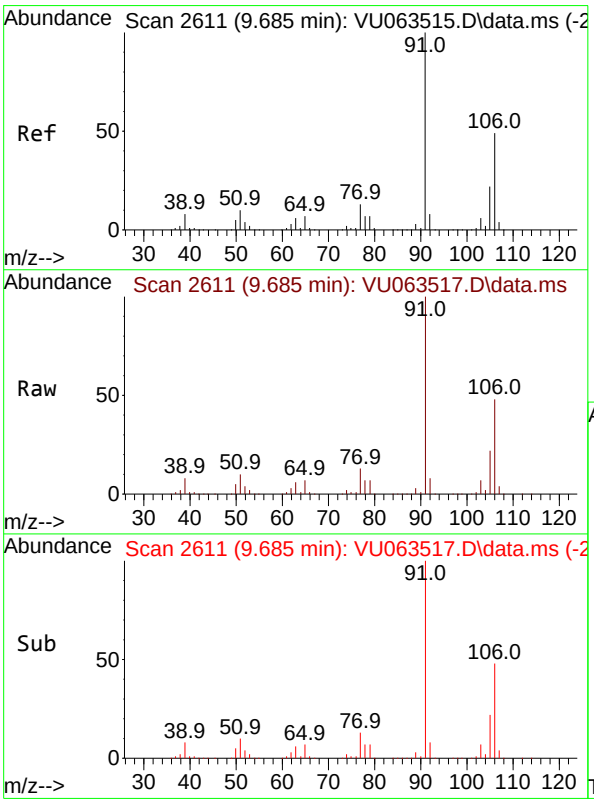
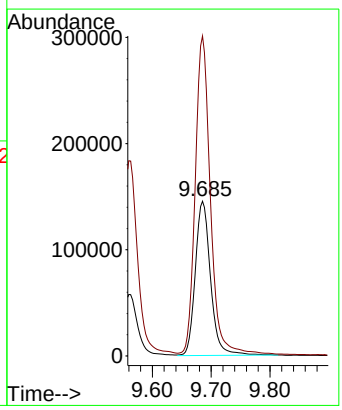
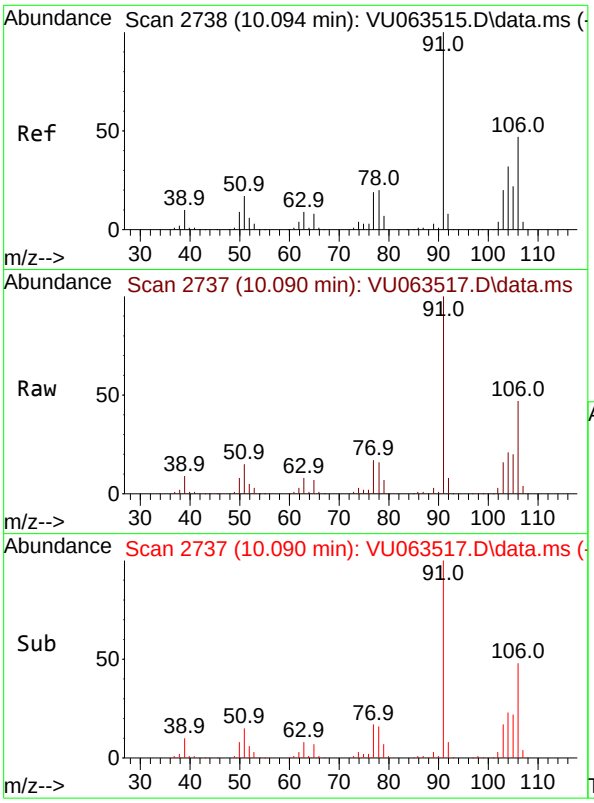


#64
m/p-Xylenes
Concen: 23.477 ug/l
RT: 9.685 min Scan# 2611
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:106 Resp: 261516

Ion	Ratio	Lower	Upper
106	100		
91	208.1	163.6	245.4

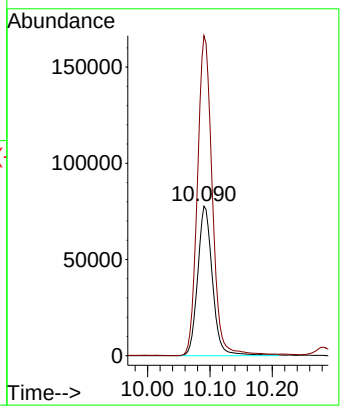




#65
o-Xylene
Concen: 11.980 ug/l
RT: 10.090 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:106 Resp: 12823

Ion	Ratio	Lower	Upper
106	100		
91	214.1	108.1	324.4



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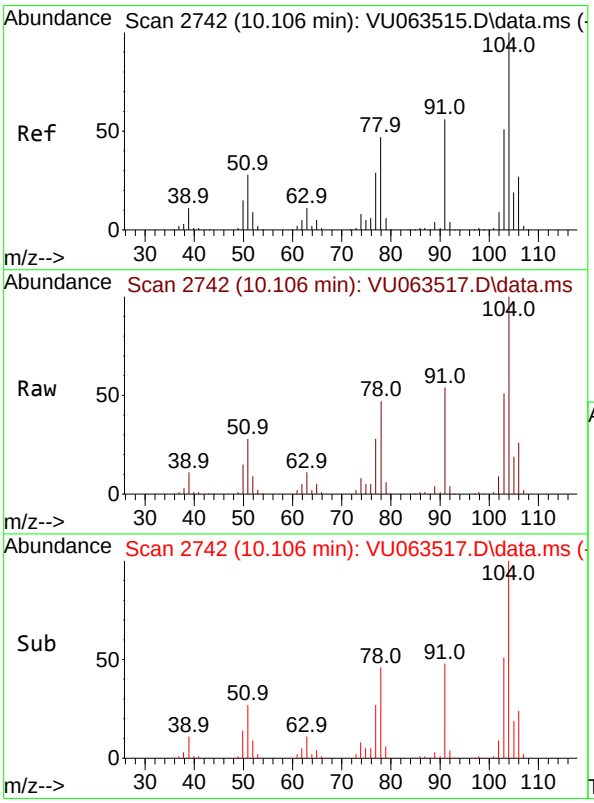
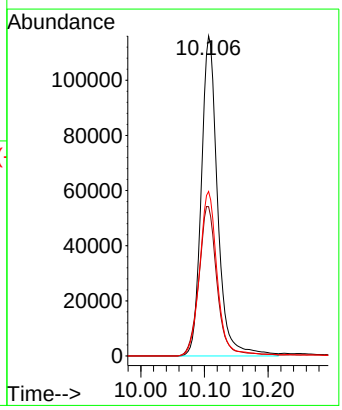
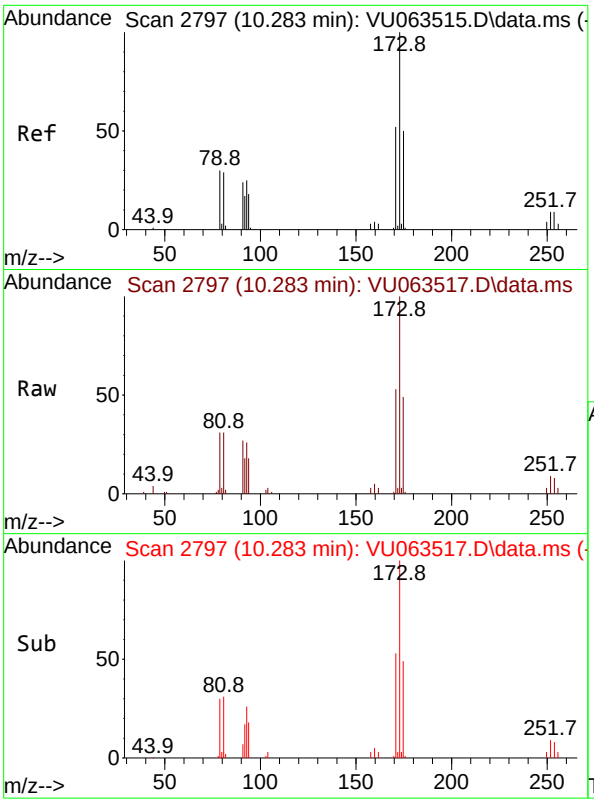


#66
Styrene
Concen: 12.168 ug/l
RT: 10.106 min Scan# 2742
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:104 Resp: 207563

Ion	Ratio	Lower	Upper
104	100		
78	51.6	41.3	61.9
103	55.3	43.6	65.4

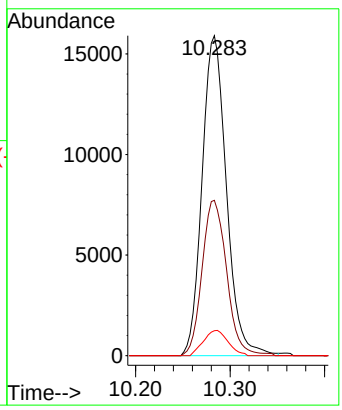




#67
Bromoform
Concen: 12.093 ug/l
RT: 10.283 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:173 Resp: 2845

Ion	Ratio	Lower	Upper
173	100		
175	49.0	39.0	58.4
254	8.0	6.5	9.7



Instrument :
MSVOA_U
ClientSampleId :
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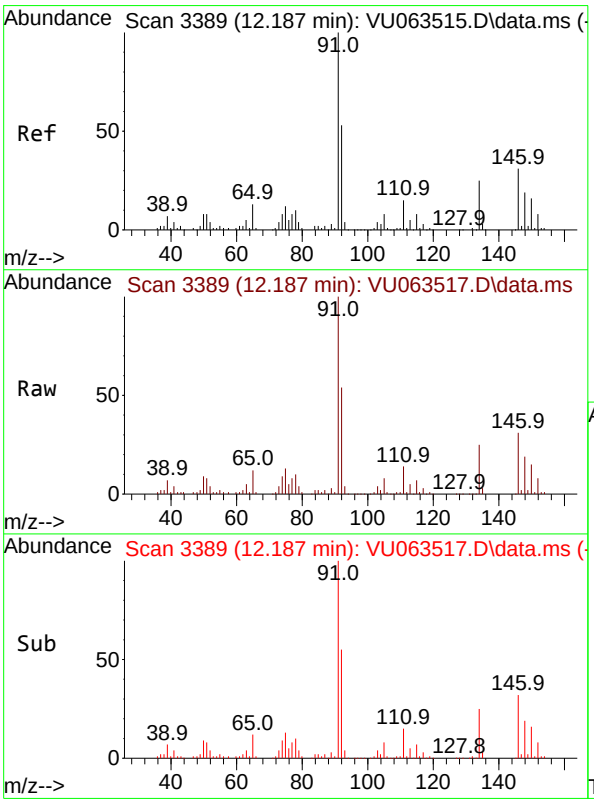
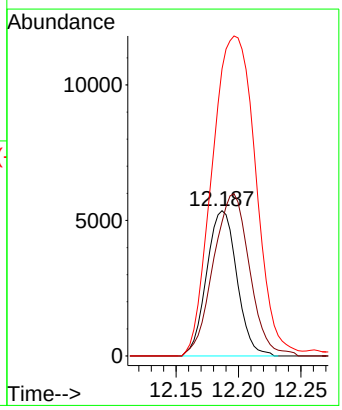
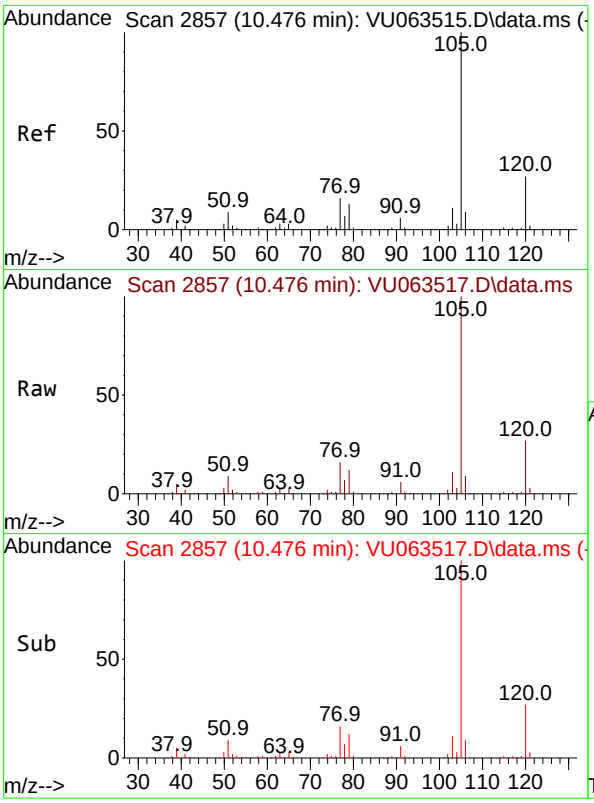


#68
1,2-Dichlorobenzene-d4
Concen: 1.147 ug/l
RT: 12.187 min Scan# 3389
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:152 Resp: 9055

Ion	Ratio	Lower	Upper
152	100		
115	133.8	0.0	262.2
150	316.7	0.0	651.2





#69
Isopropylbenzene
Concen: 13.006 ug/l
RT: 10.476 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:105 Resp: 33655

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.5

Instrument :
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ClientSampleId :
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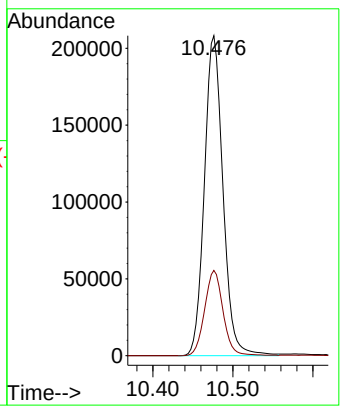
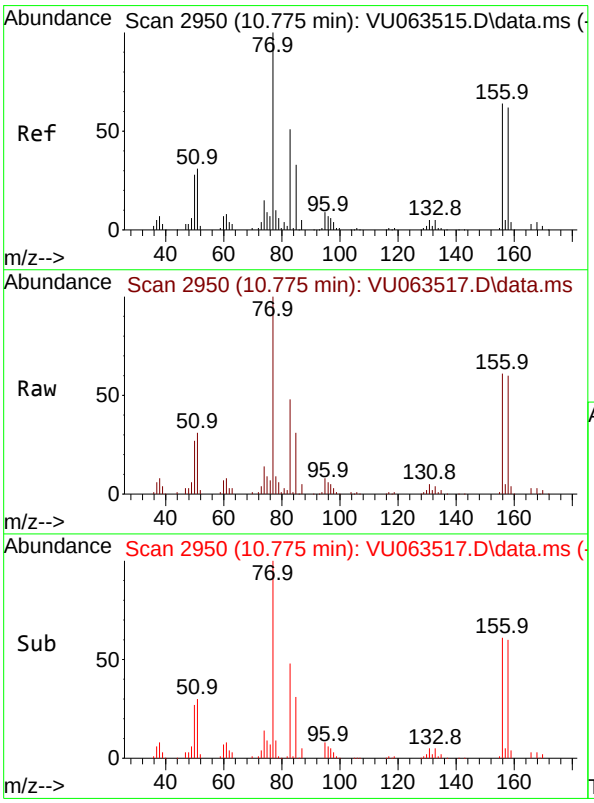
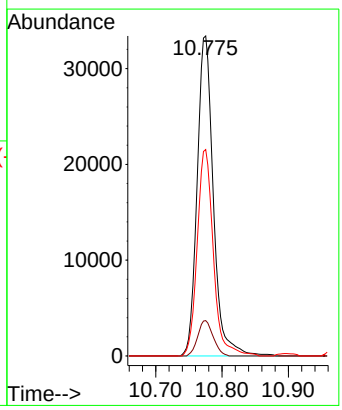


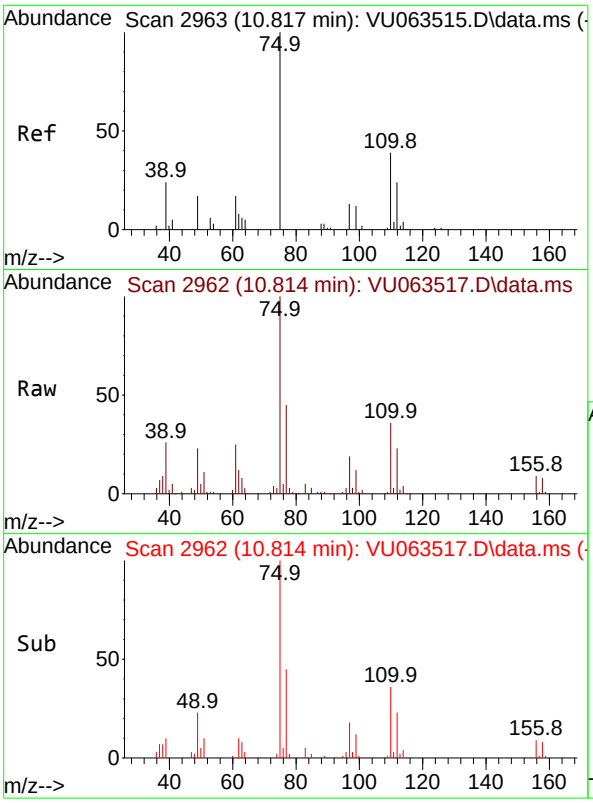


#70
1,1,2,2-Tetrachloroethane
Concen: 10.762 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 83 Resp: 56769

Ion	Ratio	Lower	Upper
83	100		
131	10.5	8.4	12.6
85	64.2	51.9	77.9

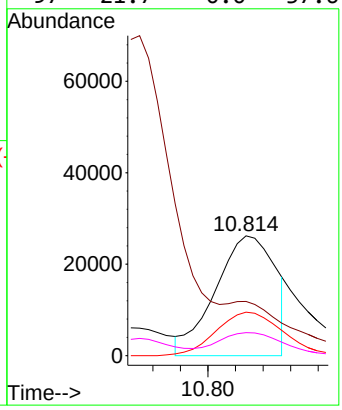




#71
1,2,3-Trichloropropane
Concen: 9.180 ug/l m
RT: 10.814 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 75 Resp: 3951

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	41.1	0.0	73.2
97	21.7	0.0	37.6



Instrument :
MSVOA_U
ClientSampleId :
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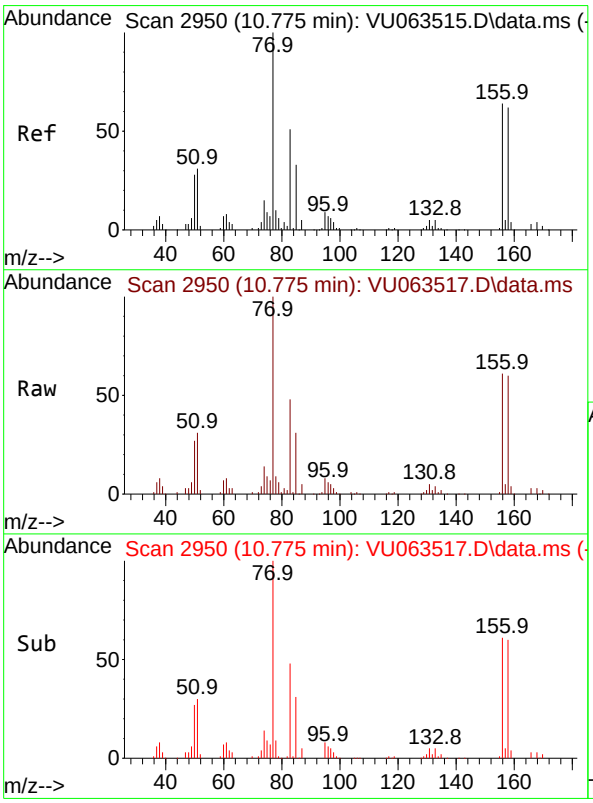
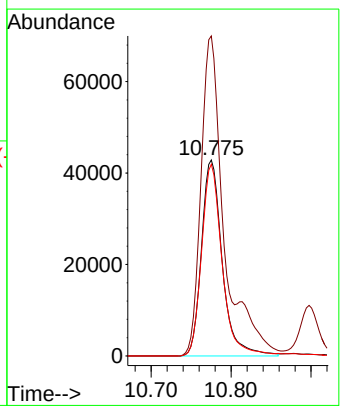
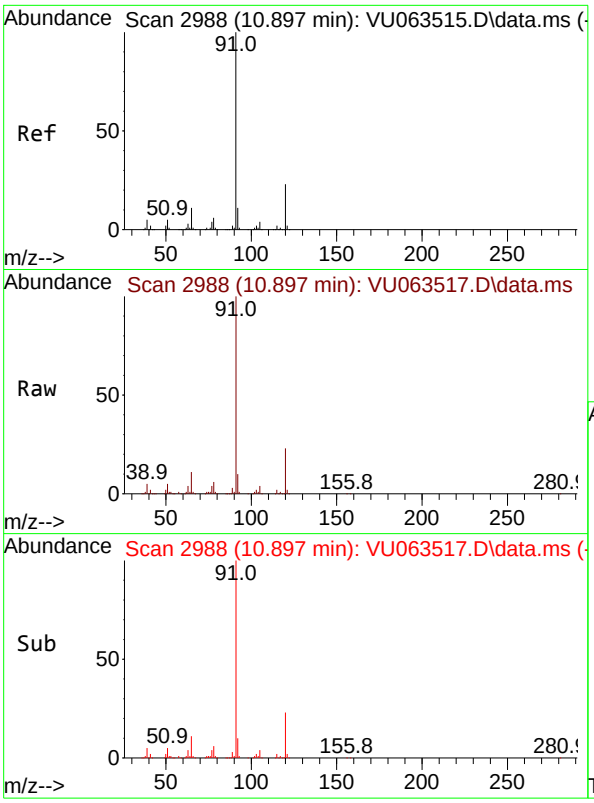


#72
Bromobenzene
Concen: 11.605 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:156 Resp: 77499

Ion	Ratio	Lower	Upper
156	100		
77	156.1	0.0	315.2
158	96.6	0.0	195.4





#73
n-propylbenzene
Concen: 11.877 ug/l
RT: 10.897 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:120 Resp: 9251

Ion	Ratio	Lower	Upper
120	100		
91	429.6	343.1	514.7

Instrument :
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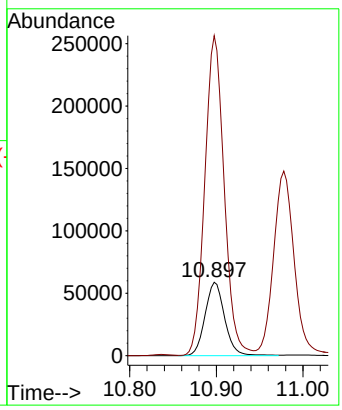
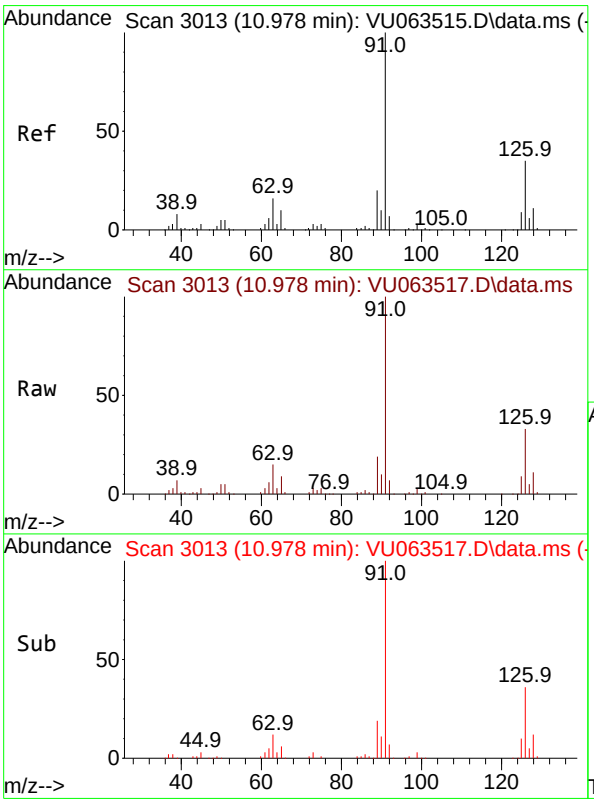
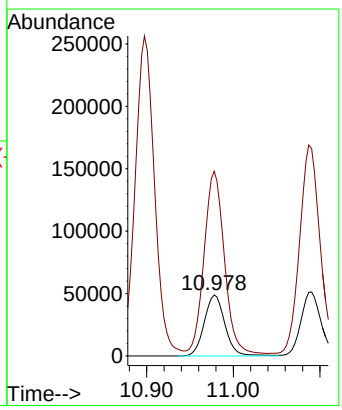


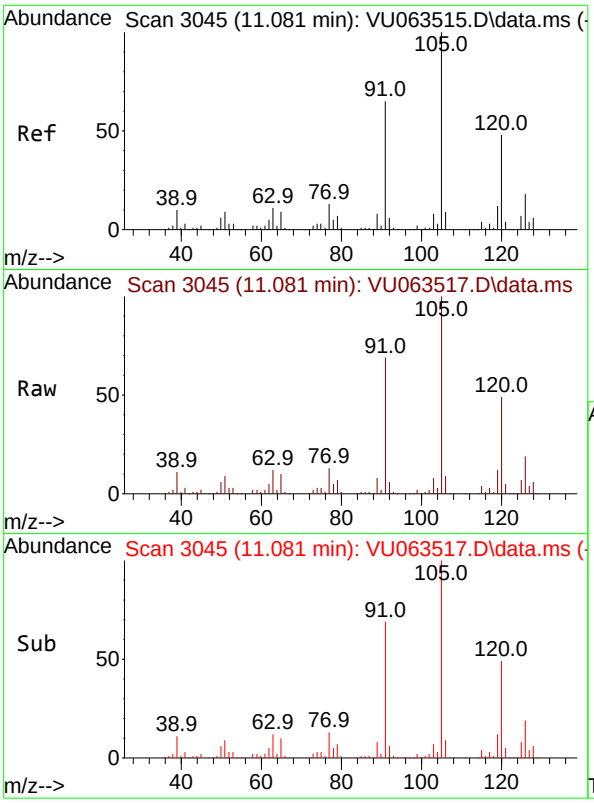


#74
2-Chlorotoluene
Concen: 11.787 ug/l
RT: 10.978 min Scan# 3013
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:126 Resp: 81148

Ion	Ratio	Lower	Upper
126	100		
91	298.0	0.0	606.0





#75
1,3,5-Trimethylbenzene
Concen: 11.999 ug/l
RT: 11.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:105 Resp: 29662

Ion	Ratio	Lower	Upper
105	100		
120	48.7	37.8	56.8

Instrument :
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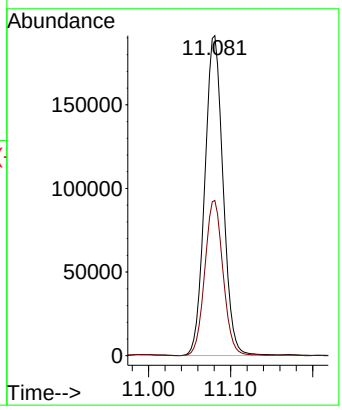
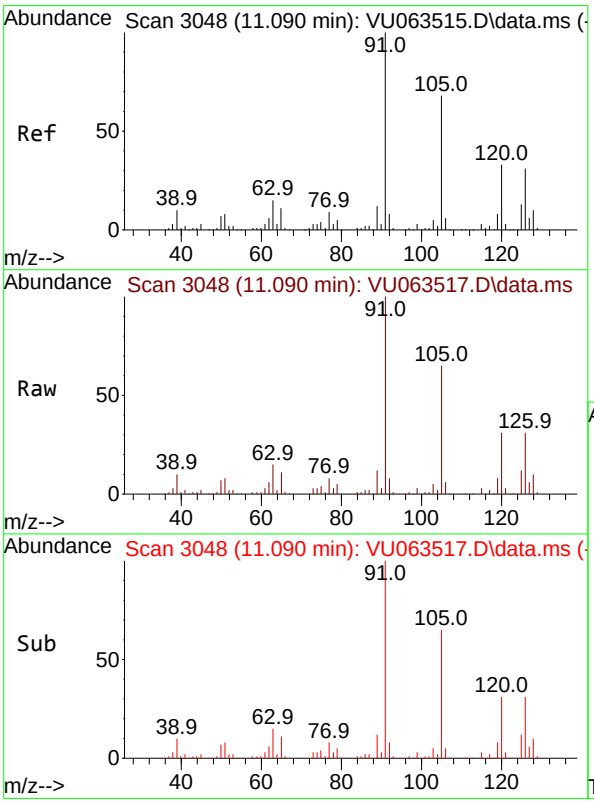
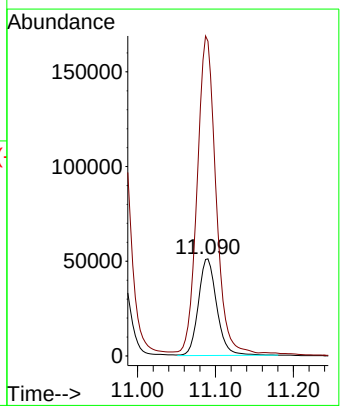


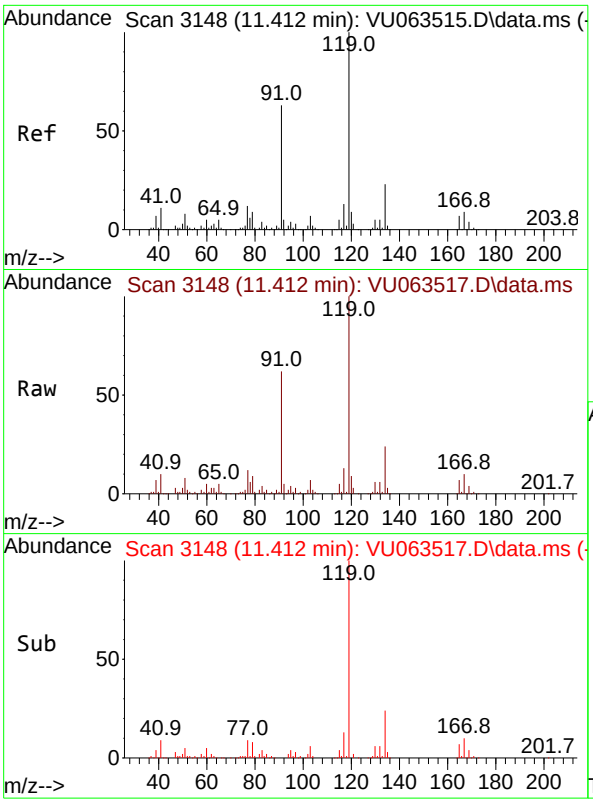


#76
4-Chlorotoluene
Concen: 11.950 ug/l
RT: 11.090 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:126 Resp: 83551

Ion	Ratio	Lower	Upper
126	100		
91	332.4	0.0	682.2

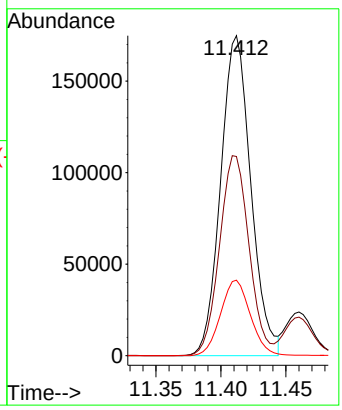




#77
tert-Butylbenzene
Concen: 11.976 ug/l
RT: 11.412 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:119 Resp: 28293

Ion	Ratio	Lower	Upper
119	100		
91	61.3	30.7	92.1
134	23.4	18.5	27.7



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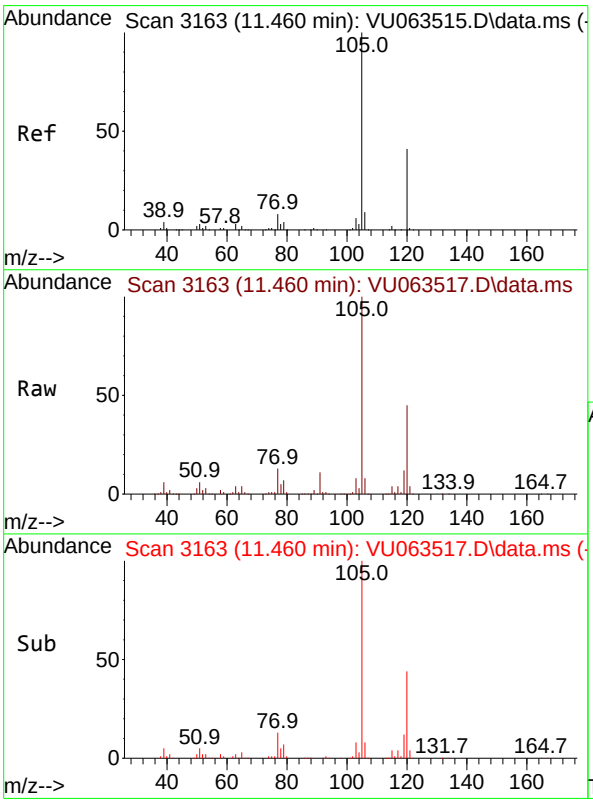
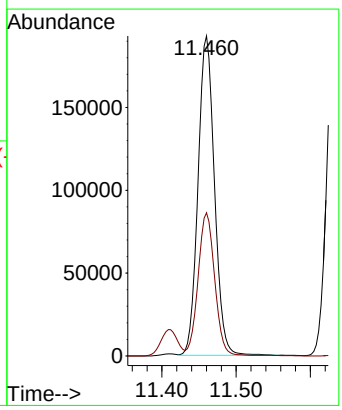
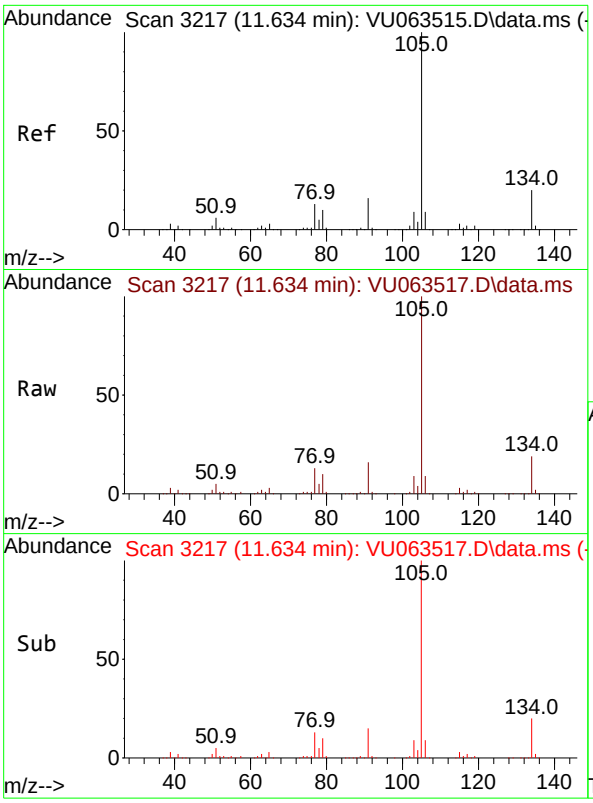


#78
1,2,4-Trimethylbenzene
Concen: 12.070 ug/l
RT: 11.460 min Scan# 3163
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:105 Resp: 296010

Ion	Ratio	Lower	Upper
105	100		
120	44.9	22.7	68.0

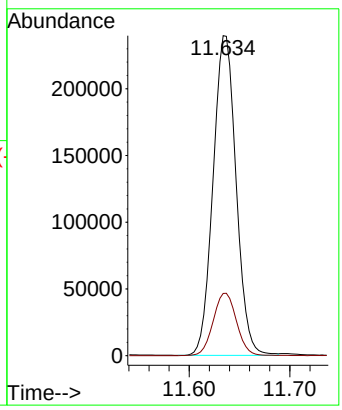




#79
sec-Butylbenzene
Concen: 11.975 ug/l
RT: 11.634 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:105 Resp: 38152

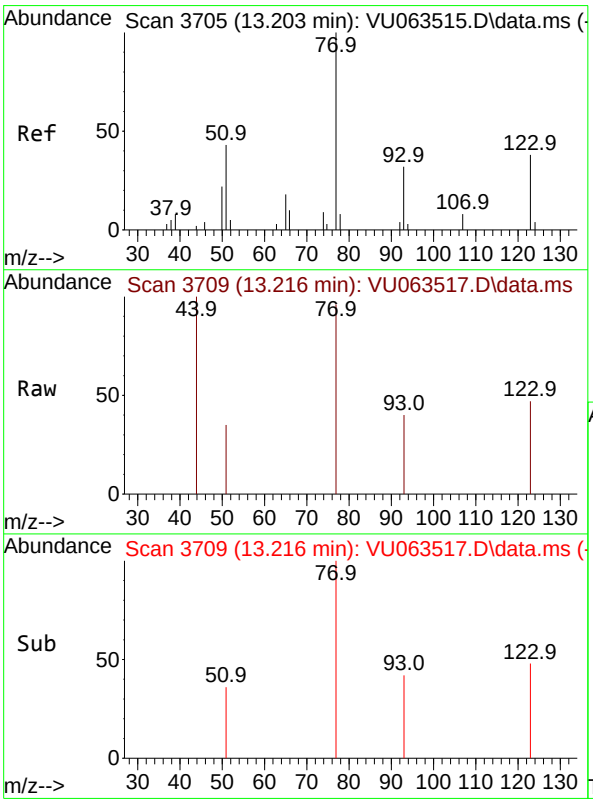
Ion	Ratio	Lower	Upper
105	100		
134	19.9	16.2	24.4



Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

Manual Integrations
APPROVED

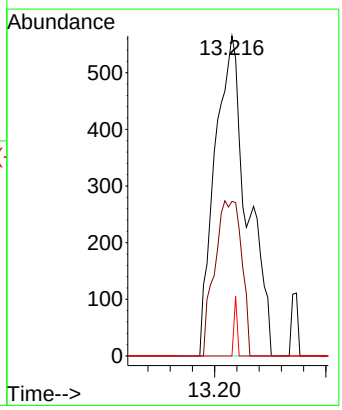
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

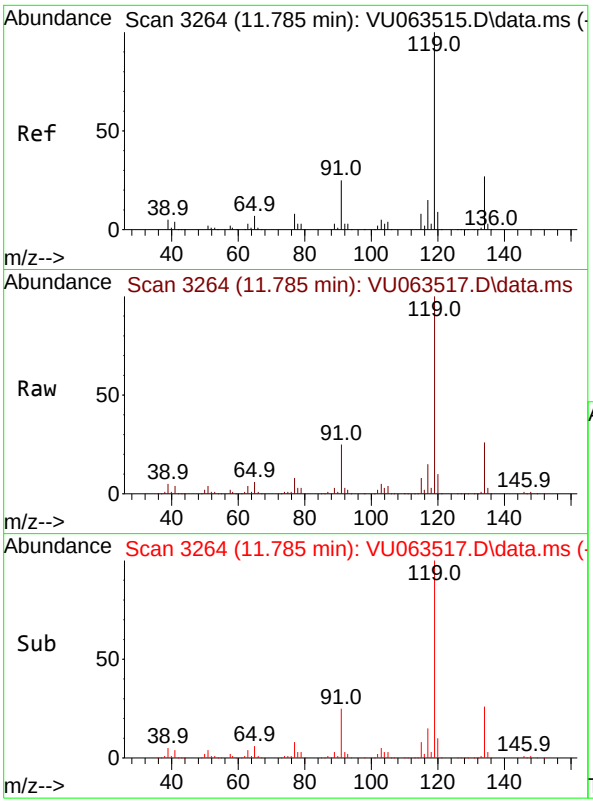


#80
Nitrobenzene
Concen: 13.031 ug/l m
RT: 13.216 min Scan# 3709
Delta R.T. 0.013 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 77 Resp: 1132

Ion	Ratio	Lower	Upper
77	100		
123	40.5	16.9	59.7
65	0.0	16.5	20.9#

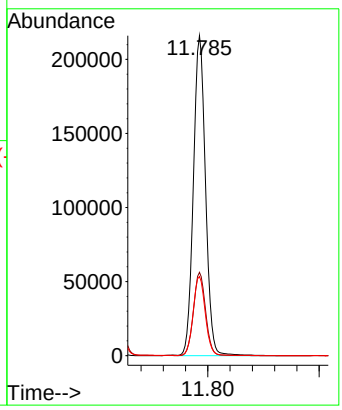




#81
p-Isopropyltoluene
Concen: 12.280 ug/l
RT: 11.785 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:119 Resp: 32658

Ion	Ratio	Lower	Upper
119	100		
134	26.0	21.1	31.7
91	24.6	19.8	29.8



Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

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Reviewed By :Mahesh Dadoda 07/17/2025
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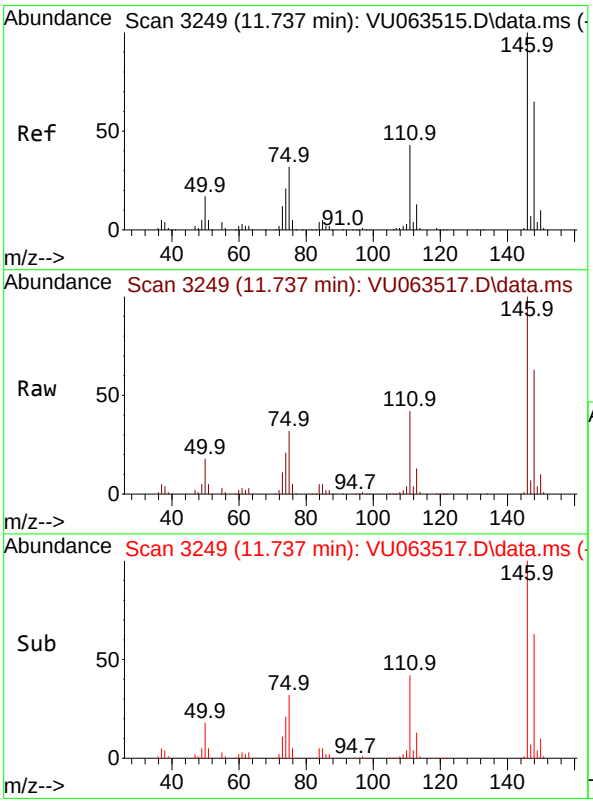
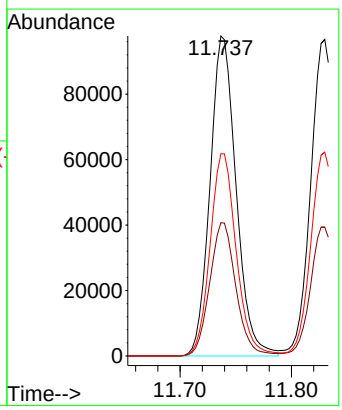
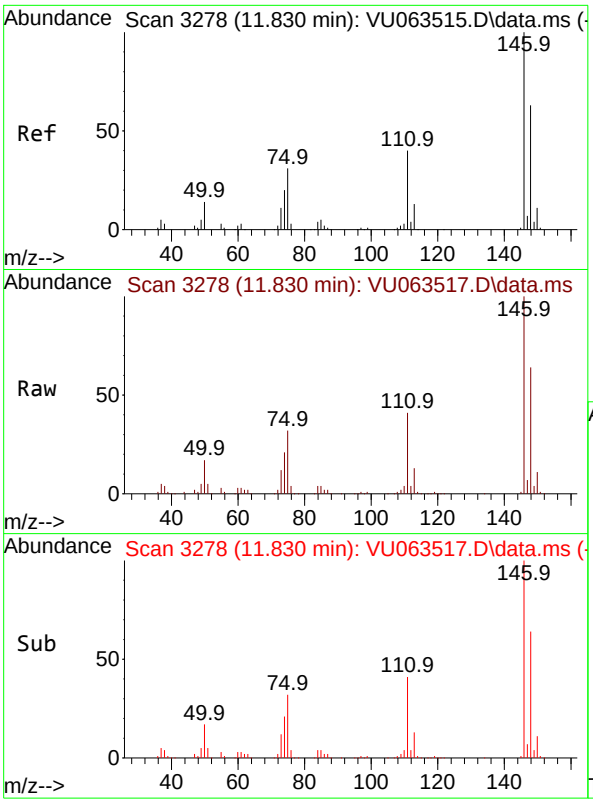


#82
1,3-Dichlorobenzene
Concen: 11.911 ug/l
RT: 11.737 min Scan# 3249
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:146 Resp: 159160

Ion	Ratio	Lower	Upper
146	100		
111	41.8	33.8	50.6
148	63.6	51.5	77.3

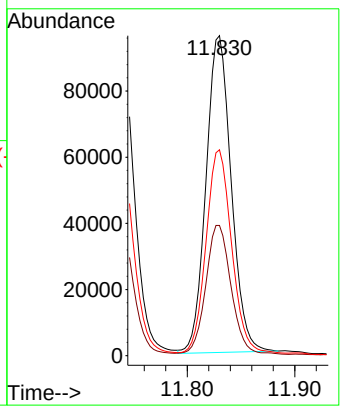




#83
1,4-Dichlorobenzene
Concen: 11.662 ug/l
RT: 11.830 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:146 Resp: 15598

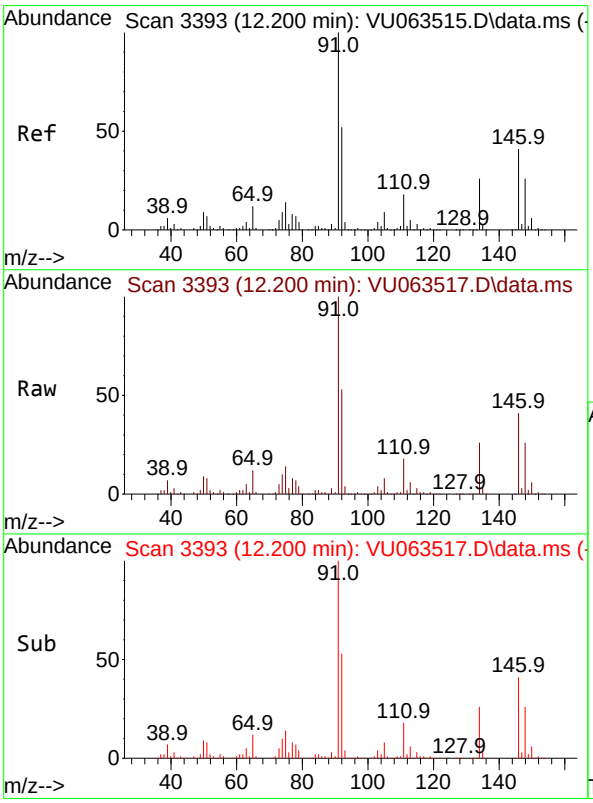
Ion	Ratio	Lower	Upper
146	100		
111	41.3	32.0	48.0
148	65.5	50.2	75.2



Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

Manual Integrations APPROVED

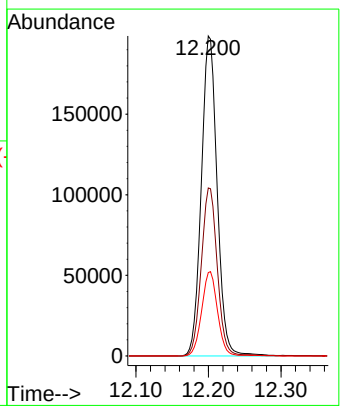
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

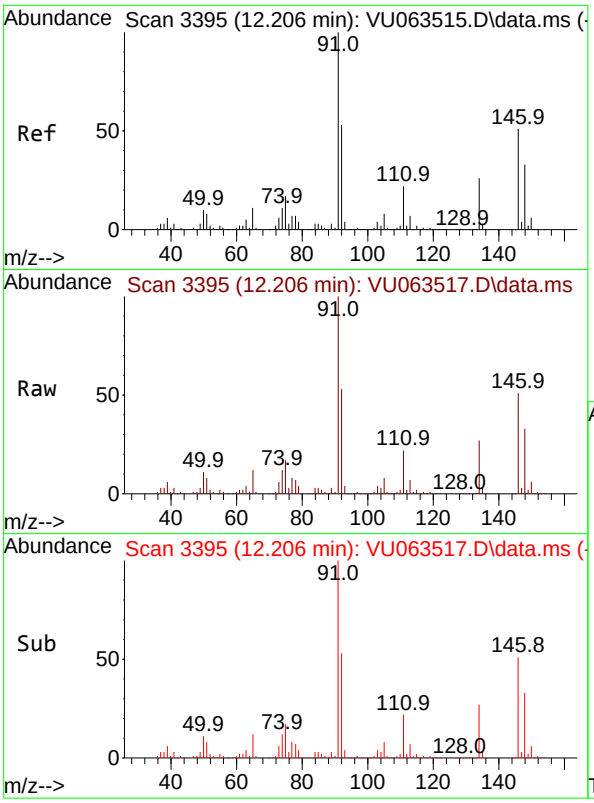


#84
n-Butylbenzene
Concen: 12.202 ug/l
RT: 12.200 min Scan# 3393
Delta R.T. -0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 91 Resp: 300975

Ion	Ratio	Lower	Upper
91	100		
92	53.2	41.5	62.3
134	26.3	20.6	30.8

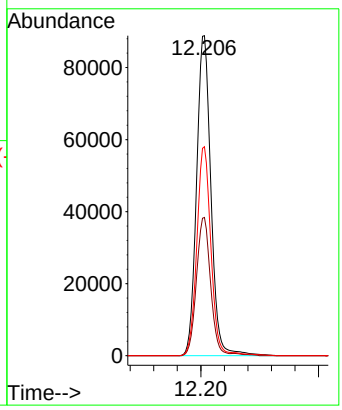




#85
1,2-Dichlorobenzene
Concen: 11.990 ug/l
RT: 12.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:146 Resp: 15051

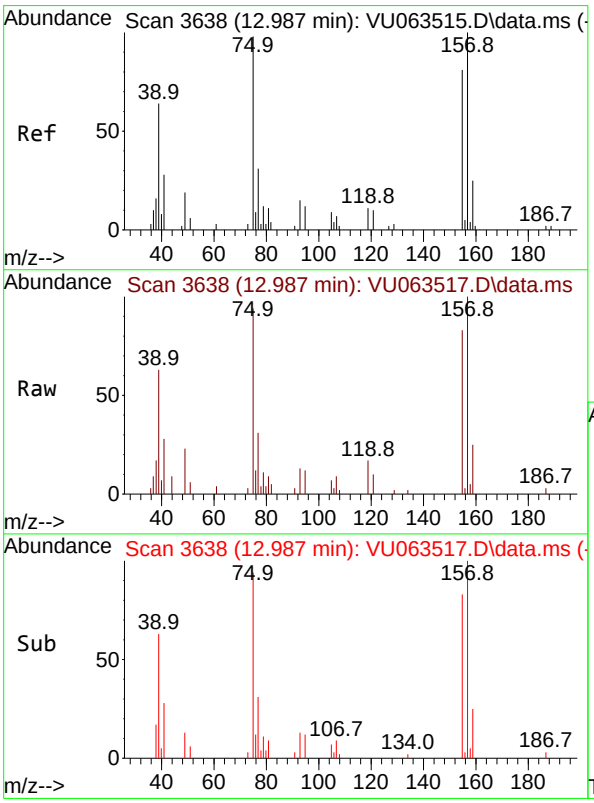
Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.7	65.1
148	64.3	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

Manual Integrations
APPROVED

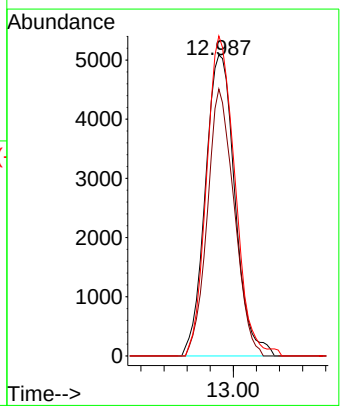
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

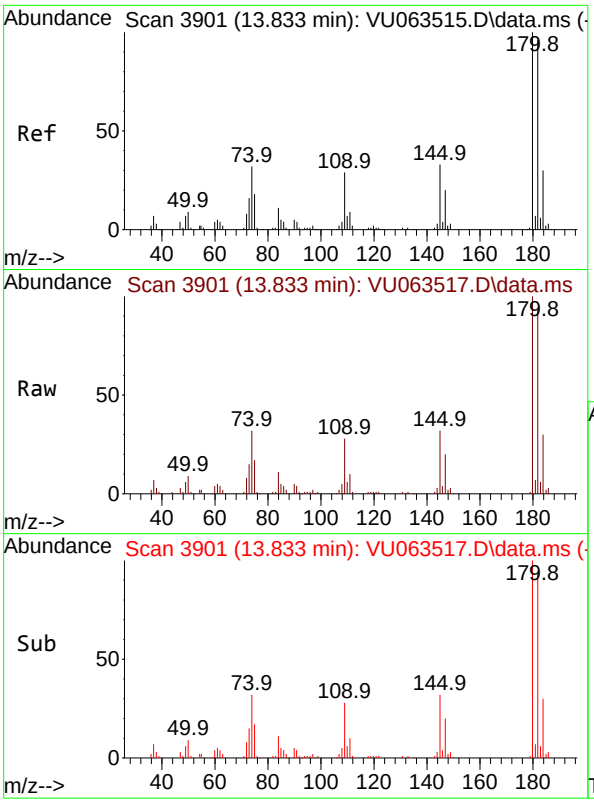


#86
1,2-Dibromo-3-Chloropropane
Concen: 10.124 ug/l
RT: 12.987 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion: 75 Resp: 9053

Ion	Ratio	Lower	Upper
75	100		
155	80.4	65.8	98.6
157	101.9	81.4	122.2

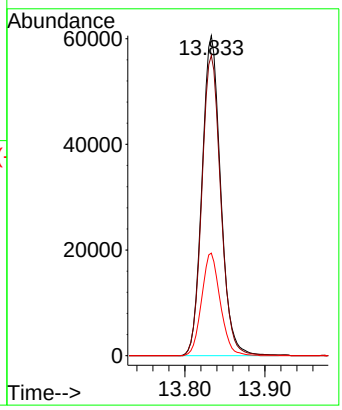




#87
1,2,4-Trichlorobenzene
Concen: 12.623 ug/l
RT: 13.833 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:180 Resp: 9854

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.2	114.4
145	32.0	26.2	39.2



Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

Manual Integrations
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Reviewed By :Mahesh Dadoda 07/17/2025
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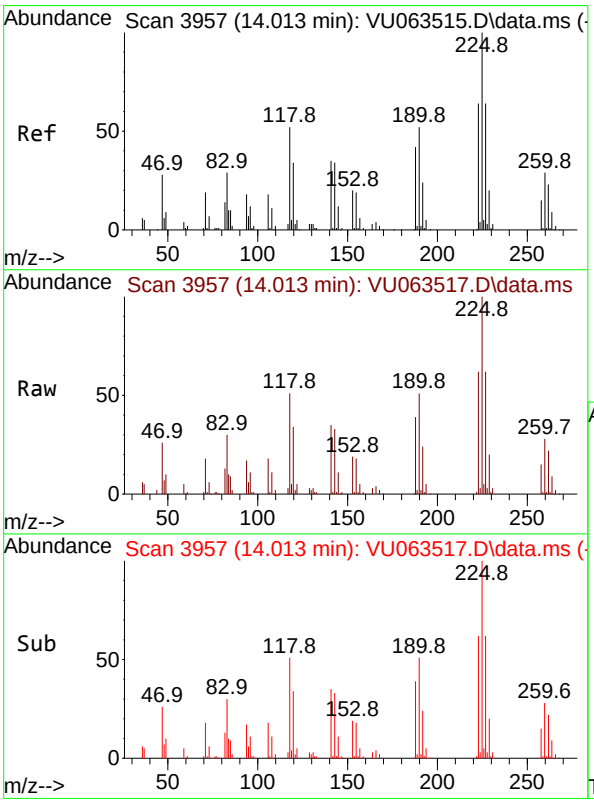
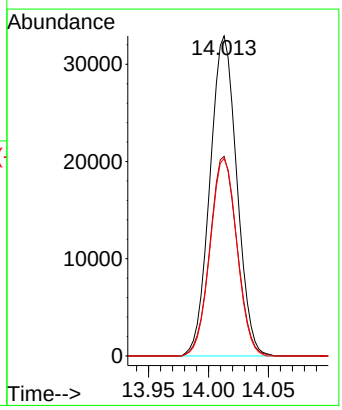
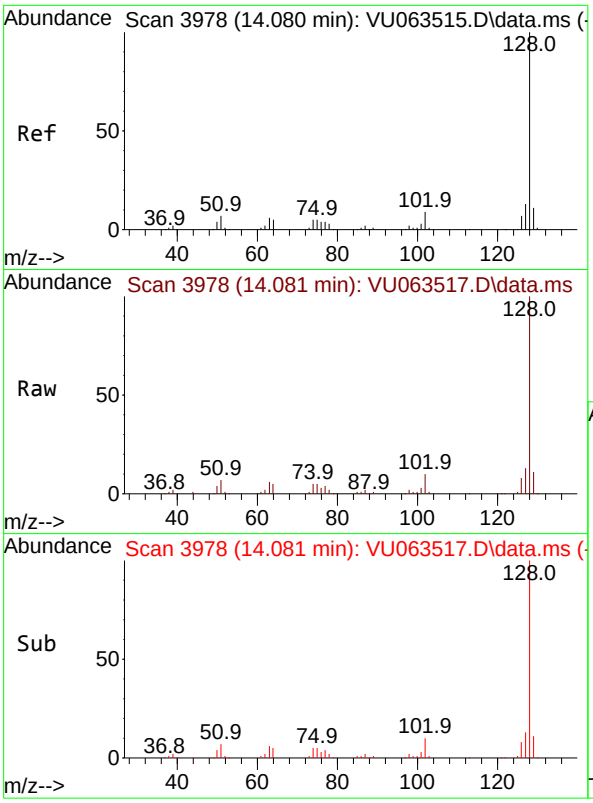


#88
Hexachlorobutadiene
Concen: 11.575 ug/l
RT: 14.013 min Scan# 3957
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:225 Resp: 51315

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.8	76.2
227	61.5	51.0	76.6

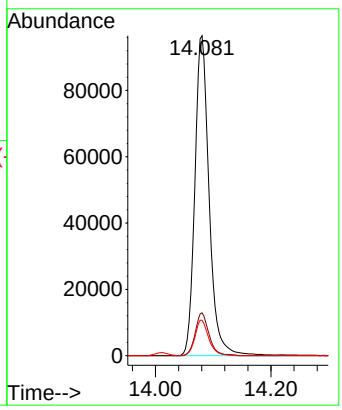




#89
Naphthalene
Concen: 11.841 ug/l
RT: 14.081 min Scan# 3
Delta R.T. 0.001 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:128 Resp: 16564

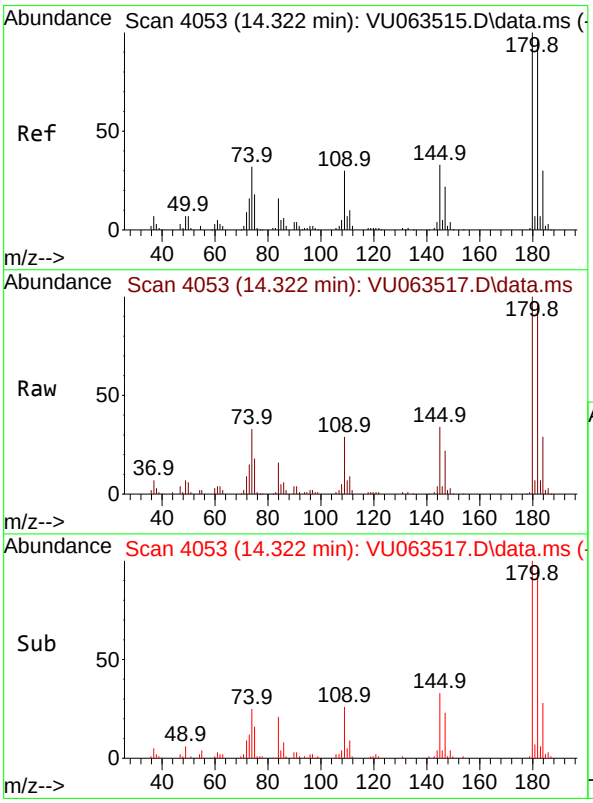
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	10.6	8.8	13.2



Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

Manual Integrations
APPROVED

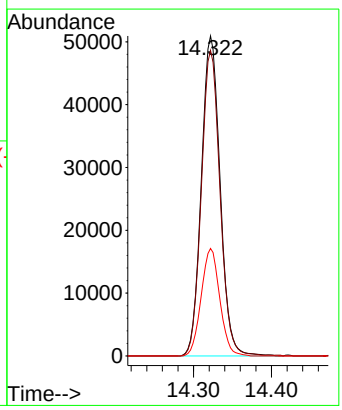
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#90
1,2,3-Trichlorobenzene
Concen: 11.788 ug/l
RT: 14.322 min Scan# 4053
Delta R.T. 0.000 min
Lab File: VU063517.D
Acq: 16 Jul 2025 14:19

Tgt Ion:180 Resp: 85042

Ion	Ratio	Lower	Upper
180	100		
182	95.2	78.0	117.0
145	33.3	27.3	40.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063517.D
Acq On : 16 Jul 2025 14:19
Operator : MD/SY
Sample : VSTDICV010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

Quant Time: Jul 17 03:27:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Fluorobenzene	1.000	1.000	0.0	88	0.00
2	T	Dichlorodifluoromethane	0.295	0.211	28.5	63	0.00
3	t	Chloromethane	0.274	0.265	3.3	87	0.00
4	Rt	Vinyl Chloride	0.349	0.333	4.6	83	0.00
5	T	Bromomethane	0.263	0.253	3.8	92	0.00
6	T	Chloroethane	0.211	0.216	-2.4	89	0.00
7	T	Trichlorofluoromethane	0.501	0.519	-3.6	90	0.00
8		1,1,2-Trichloro-1,2,2-trifl	0.262	0.300	-14.5	100	0.00
9	Rt	1,1-Dichloroethene	0.260	0.303	-16.5	101	0.00
10	t	Iodomethane	0.314	0.349	-11.1	83	0.00
11	t	Allyl Chloride	0.375	0.465	-24.0	108	0.00
12	t	Acrylonitrile	0.065	0.174	-167.7#	243#	0.00
13	T	Acetone	0.052	0.068	-30.8#	121	0.00
14	T	Carbon Disulfide	0.839	0.875	-4.3	90	0.00
15	RT	Methylene Chloride	0.306	0.340	-11.1	103	0.00
16	RT	trans-1,2-Dichloroethene	0.295	0.316	-7.1	93	0.00
17	t	1,1-Dichloroethane	0.546	0.622	-13.9	100	0.00
18	T	2-Butanone	0.081	0.095	-17.3	106	0.00
19		Cyclohexane	0.463	0.533	-15.1	102	0.00
20		Methylcyclohexane	0.450	0.461	-2.4	83	0.00
21	T	2,2-Dichloropropane	0.465	0.524	-12.7	102	0.00
22	RT	cis-1,2-Dichloroethene	0.320	0.376	-17.5	104	0.00
23	t	Diethyl Ether	0.198	0.216	-9.1	92	0.00
24	t	tert-Butyl Alcohol	0.024	0.013	45.8#	48	0.00
25	t	Methyl tert-Butyl Ether	0.678	0.809	-19.3	103	0.00
26	t	Bromochloromethane	0.134	0.143	-6.7	92	0.00
27	t	Chloroform	0.558	0.630	-12.9	102	0.00
28	RT	1,1,1-Trichloroethane	0.473	0.553	-16.9	102	0.00
29	T	1,1-Dichloropropene	0.438	0.465	-6.2	95	0.00
30	RT	Carbon Tetrachloride	0.381	0.453	-18.9	102	0.00
31	t	Isopropyl Ether	0.825	0.965	-17.0	103	0.00
32		Ethyl-t-butyl ether	0.763	0.000	100.0#	0#	-4.50#
33		Tert-Amyl methyl ether	0.663	0.000	100.0#	0#	-5.94#
34	t	Propionitrile	0.025	0.054	-116.0#	208#	0.00
35	RT	Benzene	1.178	1.117	5.2	82	0.00
36	RT	1,2-Dichloroethane	0.366	0.337	7.9	79	0.00
37	RT	Trichloroethene	0.301	0.296	1.7	81	0.00
38	Rt	1,2-Dichloropropane	0.276	0.280	-1.4	78	0.00
39	t	Methacrylonitrile	0.109	0.114	-4.6	99	0.00
40	t	Methyl acrylate	0.159	0.175	-10.1	92	0.00
41	t	Tetrahydrofuran	0.057	0.149	-161.4#	252#	0.00
42	t	1-Chlorobutane	0.583	0.672	-15.3	101	0.00
43	T	Dibromomethane	0.143	0.159	-11.2	92	0.00
44	T	Bromodichloromethane	0.322	0.374	-16.1	101	0.00
45	T	4-Methyl-2-Pentanone	0.147	0.169	-15.0	98	0.00
46	t	t-1,4-Dichloro-2-butene	0.055	0.029	47.3#	40	0.00
47	t	Methyl methacrylate	0.120	0.068	43.3#	47	0.00
48	t	Ethyl methacrylate	0.229	0.276	-20.5	97	0.00
49	Rt	Toluene	0.643	0.744	-15.7	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063517.D
Acq On : 16 Jul 2025 14:19
Operator : MD/SY
Sample : VSTDICV010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

Quant Time: Jul 17 03:27:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	t-1,3-Dichloropropene	0.253	0.307	-21.3	95	0.00
51	T	cis-1,3-Dichloropropene	0.339	0.387	-14.2	94	0.00
52	RT	1,1,2-Trichloroethane	0.192	0.211	-9.9	92	0.00
53	t	1,3-Dichloropropane	0.332	0.360	-8.4	93	0.00
54	t	2-Hexanone	0.098	0.116	-18.4	99	0.00
55	t	Dibromochloromethane	0.203	0.252	-24.1	96	0.00
56	T	1,2-Dibromoethane	0.172	0.187	-8.7	92	0.00
57	S	4-Bromofluorobenzene	0.379	0.484	-27.7	116	0.00
58	RT	Tetrachloroethene	0.275	0.311	-13.1	96	0.00
59	Rt	Chlorobenzene	0.739	0.854	-15.6	98	0.00
60	T	1,1,1,2-Tetrachloroethane	0.238	0.260	-9.2	91	0.00
61	t	Pentachloroethane	0.168	0.207	-23.2	98	0.00
62	t	Hexachloroethane	0.166	0.206	-24.1	95	0.00
63	Rt	Ethyl Benzene	1.271	1.454	-14.4	98	0.00
64	RT	m/p-Xylenes	0.494	0.580	-17.4	99	0.00
65	RT	o-Xylene	0.475	0.569	-19.8	100	0.00
66	RT	Styrene	0.757	0.921	-21.7	99	0.00
67	t	Bromoform	0.104	0.126	-21.2	94	0.00
68	S	1,2-Dichlorobenzene-d4	0.350	0.402	-14.9	99	0.00
69	T	Isopropylbenzene	1.148	1.493	-30.1#	107	0.00
70	T	1,1,2,2-Tetrachloroethane	0.234	0.252	-7.7	92	0.00
71	T	1,2,3-Trichloropropane	0.190	0.175	7.9	74	0.00
72	t	Bromobenzene	0.296	0.344	-16.2	98	0.00
73	t	n-propylbenzene	0.346	0.410	-18.5	97	0.00
74	t	2-Chlorotoluene	0.305	0.360	-18.0	99	0.00
75	t	1,3,5-Trimethylbenzene	1.097	1.316	-20.0	98	0.00
76	t	4-Chlorotoluene	0.310	0.371	-19.7	99	0.00
77	t	tert-Butylbenzene	1.048	1.255	-19.8	99	0.00
78	t	1,2,4-Trimethylbenzene	1.088	1.313	-20.7	99	0.00
79	t	sec-Butylbenzene	1.413	1.692	-19.7	99	0.00
80		Nitrobenzene	0.004	0.001	75.0#	17#	0.01
81	t	p-Isopropyltoluene	1.180	1.449	-22.8	100	0.00
82	t	1,3-Dichlorobenzene	0.593	0.706	-19.1	99	0.00
83	Rt	1,4-Dichlorobenzene	0.593	0.692	-16.7	96	0.00
84	t	n-Butylbenzene	1.094	1.335	-22.0	97	0.00
85	Rt	1,2-Dichlorobenzene	0.557	0.668	-19.9	99	0.00
86	t	1,2-Dibromo-3-Chloropropane	0.033	0.040	-21.2	89	0.00
87	Rt	1,2,4-Trichlorobenzene	0.346	0.437	-26.3	100	0.00
88	t	Hexachlorobutadiene	0.197	0.228	-15.7	95	0.00
89	t	Naphthalene	0.621	0.735	-18.4	96	0.00
90	t	1,2,3-Trichlorobenzene	0.320	0.377	-17.8	95	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063517.D
Acq On : 16 Jul 2025 14:19
Operator : MD/SY
Sample : VSTDICV010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

Quant Time: Jul 17 03:27:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Fluorobenzene	1.000	1.000	0.0	88	0.00
2	T	Dichlorodifluoromethane	10.000	7.149	28.5	63	0.00
3	t	Chloromethane	10.000	9.652	3.5	87	0.00
4	Rt	Vinyl Chloride	10.000	9.533	4.7	83	0.00
5	T	Bromomethane	10.000	9.626	3.7	92	0.00
6	T	Chloroethane	10.000	10.243	-2.4	89	0.00
7	T	Trichlorofluoromethane	10.000	10.364	-3.6	90	0.00
8		1,1,2-Trichloro-1,2,2-trifl	10.000	11.439	-14.4	100	0.00
9	Rt	1,1-Dichloroethene	10.000	11.688	-16.9	101	0.00
10	t	Iodomethane	10.000	9.080	9.2	83	0.00
11	t	Allyl Chloride	10.000	12.385	-23.8	108	0.00
12	t	Acrylonitrile	20.000	53.704	-168.5#	243	0.00
13	T	Acetone	50.000	65.587	-31.2#	121	0.00
14	T	Carbon Disulfide	10.000	10.434	-4.3	90	0.00
15	RT	Methylene Chloride	10.000	11.133	-11.3	103	0.00
16	RT	trans-1,2-Dichloroethene	10.000	10.705	-7.1	93	0.00
17	t	1,1-Dichloroethane	10.000	11.390	-13.9	100	0.00
18	T	2-Butanone	50.000	59.104	-18.2	106	0.00
19		Cyclohexane	10.000	11.523	-15.2	102	0.00
20		Methylcyclohexane	10.000	10.246	-2.5	83	0.00
21	T	2,2-Dichloropropane	10.000	11.251	-12.5	102	0.00
22	RT	cis-1,2-Dichloroethene	10.000	11.753	-17.5	104	0.00
23	t	Diethyl Ether	10.000	10.895	-8.9	92	0.00
24	t	tert-Butyl Alcohol	100.000	54.858	45.1#	48	0.00
25	t	Methyl tert-Butyl Ether	10.000	11.931	-19.3	103	0.00
26	t	Bromochloromethane	10.000	10.701	-7.0	92	0.00
27	t	Chloroform	10.000	11.295	-13.0	102	0.00
28	RT	1,1,1-Trichloroethane	10.000	11.694	-16.9	102	0.00
29	T	1,1-Dichloropropene	10.000	10.604	-6.0	95	0.00
30	RT	Carbon Tetrachloride	10.000	11.881	-18.8	102	0.00
31	t	Isopropyl Ether	10.000	11.694	-16.9	103	0.00
32		Ethyl-t-butyl ether	10.000	0.000	100.0#	0	-4.50#
33		Tert-Amyl methyl ether	10.000	0.000	100.0#	0	-5.94#
34	t	Propionitrile	50.000	110.315	-120.6#	208	0.00
35	RT	Benzene	10.000	9.485	5.2	82	0.00
36	RT	1,2-Dichloroethane	10.000	9.208	7.9	79	0.00
37	RT	Trichloroethene	10.000	9.864	1.4	81	0.00
38	Rt	1,2-Dichloropropane	10.000	10.152	-1.5	78	0.00
39	t	Methacrylonitrile	10.000	10.571	-5.7	99	0.00
40	t	Methyl acrylate	10.000	10.962	-9.6	92	0.00
41	t	Tetrahydrofuran	20.000	52.040	-160.2#	252	0.00
42	t	1-Chlorobutane	10.000	11.532	-15.3	101	0.00
43	T	Dibromomethane	10.000	11.149	-11.5	92	0.00
44	T	Bromodichloromethane	10.000	11.611	-16.1	101	0.00
45	T	4-Methyl-2-Pentanone	50.000	57.520	-15.0	98	0.00
46	t	t-1,4-Dichloro-2-butene	20.000	10.924	45.4#	40	0.00
47	t	Methyl methacrylate	20.000	11.336	43.3#	47	0.00
48	t	Ethyl methacrylate	10.000	12.064	-20.6	97	0.00
49	Rt	Toluene	10.000	11.565	-15.6	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063517.D
Acq On : 16 Jul 2025 14:19
Operator : MD/SY
Sample : VSTDICV010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ICVVU071625

Quant Time: Jul 17 03:27:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:16:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50	T	t-1,3-Dichloropropene	10.000	12.160	-21.6	95	0.00
51	T	cis-1,3-Dichloropropene	10.000	11.406	-14.1	94	0.00
52	RT	1,1,2-Trichloroethane	10.000	10.973	-9.7	92	0.00
53	t	1,3-Dichloropropane	10.000	10.849	-8.5	93	0.00
54	t	2-Hexanone	50.000	59.254	-18.5	99	0.00
55	t	Dibromochloromethane	10.000	12.417	-24.2	96	0.00
56	T	1,2-Dibromoethane	10.000	10.846	-8.5	92	0.00
57	S	4-Bromofluorobenzene	1.000	1.279	-27.9	116	0.00
58	RT	Tetrachloroethene	10.000	11.312	-13.1	96	0.00
59	Rt	Chlorobenzene	10.000	11.557	-15.6	98	0.00
60	T	1,1,1,2-Tetrachloroethane	10.000	10.964	-9.6	91	0.00
61	t	Pentachloroethane	10.000	12.325	-23.2	98	0.00
62	t	Hexachloroethane	10.000	12.375	-23.8	95	0.00
63	Rt	Ethyl Benzene	10.000	11.440	-14.4	98	0.00
64	RT	m/p-Xylenes	20.000	23.477	-17.4	99	0.00
65	RT	o-Xylene	10.000	11.980	-19.8	100	0.00
66	RT	Styrene	10.000	12.168	-21.7	99	0.00
67	t	Bromoform	10.000	12.093	-20.9	94	0.00
68	S	1,2-Dichlorobenzene-d4	1.000	1.147	-14.7	99	0.00
69	T	Isopropylbenzene	10.000	13.006	-30.1#	107	0.00
70	T	1,1,2,2-Tetrachloroethane	10.000	10.762	-7.6	92	0.00
71	T	1,2,3-Trichloropropane	10.000	9.180	8.2	74	0.00
72	t	Bromobenzene	10.000	11.605	-16.1	98	0.00
73	t	n-propylbenzene	10.000	11.877	-18.8	97	0.00
74	t	2-Chlorotoluene	10.000	11.787	-17.9	99	0.00
75	t	1,3,5-Trimethylbenzene	10.000	11.999	-20.0	98	0.00
76	t	4-Chlorotoluene	10.000	11.950	-19.5	99	0.00
77	t	tert-Butylbenzene	10.000	11.976	-19.8	99	0.00
78	t	1,2,4-Trimethylbenzene	10.000	12.070	-20.7	99	0.00
79	t	sec-Butylbenzene	10.000	11.975	-19.7	99	0.00
80		Nitrobenzene	50.000	13.031	73.9#	17	0.01
81	t	p-Isopropyltoluene	10.000	12.280	-22.8	100	0.00
82	t	1,3-Dichlorobenzene	10.000	11.911	-19.1	99	0.00
83	Rt	1,4-Dichlorobenzene	10.000	11.662	-16.6	96	0.00
84	t	n-Butylbenzene	10.000	12.202	-22.0	97	0.00
85	Rt	1,2-Dichlorobenzene	10.000	11.990	-19.9	99	0.00
86	t	1,2-Dibromo-3-Chloropropane	10.000	10.124	-1.2	89	0.00
87	Rt	1,2,4-Trichlorobenzene	10.000	12.623	-26.2	100	0.00
88	t	Hexachlorobutadiene	10.000	11.575	-15.7	95	0.00
89	t	Naphthalene	10.000	11.841	-18.4	96	0.00
90	t	1,2,3-Trichlorobenzene	10.000	11.788	-17.9	95	0.00

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

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: ALLI03

Lab Code: ACE | SDG No.: Q2552

Instrument ID: MSVOA_U | Calibration Date/Time: 07/17/2025 09:25

Lab File ID: VU063519.D | Init. Calib. Date(s): 07/16/2025 07/16/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:24 12:11

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.295	0.284		-3.73	30
Chloromethane	0.274	0.271		-1.1	30
Vinyl Chloride	0.349	0.339		-2.87	30
Bromomethane	0.263	0.242		-7.99	30
Chloroethane	0.211	0.206		-2.37	30
Tetrahydrofuran	0.057	0.051		-10.53	30
Trichlorofluoromethane	0.501	0.484		-3.39	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.262	0.259		-1.14	30
tert-Butyl Alcohol	0.024	0.023		-4.17	30
Diethyl Ether	0.198	0.199		0.5	30
1,1-Dichloroethene	0.260	0.255		-1.92	30
Acrylonitrile	0.065	0.063		-3.08	30
Acetone	0.052	0.080		53.85	30
Carbon Disulfide	0.839	0.805		-4.05	30
Methyl tert-Butyl Ether	0.678	0.681		0.44	30
Methyl acrylate	0.160	0.149		-6.88	30
Methylene Chloride	0.306	0.286		-6.54	30
trans-1,2-Dichloroethene	0.295	0.282		-4.41	30
1,1-Dichloroethane	0.546	0.536		-1.83	30
Cyclohexane	0.463	0.437		-5.62	30
2-Butanone	0.081	0.100		23.46	30
Carbon Tetrachloride	0.381	0.388		1.84	30
2,2-Dichloropropane	0.465	0.456		-1.93	30
cis-1,2-Dichloroethene	0.320	0.312		-2.5	30
Bromochloromethane	0.134	0.135		0.75	30
Chloroform	0.558	0.543		-2.69	30
1,1,1-Trichloroethane	0.473	0.466		-1.48	30
Methylcyclohexane	0.450	0.467		3.78	30
1,1-Dichloropropene	0.438	0.425		-2.97	30
Propionitrile	0.025	0.023		-8	30
Benzene	1.178	1.188		0.85	30
1,2-Dichloroethane	0.366	0.368		0.55	30
Trichloroethene	0.301	0.318		5.65	30
1,2-Dichloropropane	0.276	0.308		11.59	30
1-Chlorobutane	0.583	0.580		-0.51	30
Dibromomethane	0.143	0.144		0.7	30
Bromodichloromethane	0.322	0.324		0.62	30
4-Methyl-2-Pentanone	0.147	0.154		4.76	30

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: ALLI03

Lab Code: ACE SDG No.: Q2552

Instrument ID: MSVOA_U Calibration Date/Time: 07/17/2025 09:25

Lab File ID: VU063519.D Init. Calib. Date(s): 07/16/2025 07/16/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:24 12:11

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Toluene	0.643	0.653		1.55	30
t-1,3-Dichloropropene	0.253	0.278		9.88	30
cis-1,3-Dichloropropene	0.339	0.359		5.9	30
1,1,2-Trichloroethane	0.192	0.199		3.65	30
1,3-Dichloropropane	0.332	0.333		0.3	30
2-Hexanone	0.098	0.118		20.41	30
Dibromochloromethane	0.203	0.229		12.81	30
1,2-Dibromoethane	0.172	0.178		3.49	30
Tetrachloroethene	0.275	0.267		-2.91	30
Chlorobenzene	0.739	0.758		2.57	30
1,1,1,2-Tetrachloroethane	0.238	0.246		3.36	30
Hexachloroethane	0.166	0.183		10.24	30
Ethyl Benzene	1.271	1.290		1.5	30
m/p-Xylenes	0.494	0.510		3.24	30
o-Xylene	0.475	0.499		5.05	30
Styrene	0.757	0.817		7.93	30
Bromoform	0.104	0.116		11.54	30
Isopropylbenzene	1.148	1.207		5.14	30
1,1,2,2-Tetrachloroethane	0.234	0.245		4.7	30
1,2,3-Trichloropropane	0.190	0.195		2.63	30
Bromobenzene	0.296	0.311		5.07	30
n-propylbenzene	0.346	0.365		5.49	30
2-Chlorotoluene	0.305	0.319		4.59	30
1,3,5-Trimethylbenzene	1.097	1.162		5.93	30
4-Chlorotoluene	0.310	0.333		7.42	30
tert-Butylbenzene	1.048	1.102		5.15	30
1,2,4-Trimethylbenzene	1.088	1.163		6.89	30
sec-Butylbenzene	1.413	1.483		4.95	30
p-Isopropyltoluene	1.180	1.264		7.12	30
1,3-Dichlorobenzene	0.593	0.622		4.89	30
1,4-Dichlorobenzene	0.593	0.625		5.4	30
n-Butylbenzene	1.094	1.206		10.24	30
1,2-Dichlorobenzene	0.557	0.586		5.21	30
1,2-Dibromo-3-Chloropropane	0.033	0.040		21.21	30
1,2,4-Trichlorobenzene	0.346	0.381		10.12	30
Hexachlorobutadiene	0.197	0.206		4.57	30
Naphthalene	0.621	0.687		10.63	30
1,2,3-Trichlorobenzene	0.320	0.357		11.56	30

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:	ALLI03
Lab Code:	ACE	SDG No.:	Q2552
Instrument ID:	MSVOA_U	Calibration Date/Time:	07/17/2025 09:25
Lab File ID:	VU063519.D	Init. Calib. Date(s):	07/16/2025 07/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:24 12:11

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
1,2-Dichlorobenzene-d4	0.350	0.339		-3.14	30
4-Bromofluorobenzene	0.379	0.365		-3.69	30
Iodomethane	0.314	0.350		11.47	30
Allyl Chloride	0.375	0.371		-1.07	30
Methacrylonitrile	0.109	0.101		-7.34	30
Isopropyl Ether	0.825	0.805		-2.42	30
Methyl methacrylate	0.120	0.125		4.17	30

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_U\Data\VU071725\
Data File : VU063519.D
Acq On : 17 Jul 2025 09:25
Operator : MD/SY
Sample : VSTDCCC010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 04:09:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	27500	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	10050	0.965	ug/l	0.00
Spiked Amount 1.000			Recovery = 97.000%			
68) 1,2-Dichlorobenzene-d4	12.183	152	9321	0.968	ug/l	0.00
Spiked Amount 1.000			Recovery = 97.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.380	85	78194	9.643	ug/l	99
3) Chloromethane	1.518	50	74637	9.902	ug/l	99
4) Vinyl Chloride	1.599	62	93296	9.718	ug/l	100
5) Bromomethane	1.840	94	66515	9.188	ug/l	99
6) Chloroethane	1.923	64	56651	9.774	ug/l	98
7) Trichlorofluoromethane	2.126	101	132982	9.648	ug/l	100
8) 1,1,2-Trichloro-1,2,2-...	2.570	101	71124	9.874	ug/l	99
9) 1,1-Dichloroethene	2.567	96	70211	9.834	ug/l	99
10) Iodomethane	2.708	142	96119	9.096	ug/l	99
11) Allyl Chloride	2.907	41	102152	9.904	ug/l	99
12) Acrylonitrile	3.303	53	34689	19.426	ug/l	99
13) Acetone	2.618	43	109552	76.573	ug/l	98
14) Carbon Disulfide	2.779	76	221309	9.597	ug/l	100
15) Methylene Chloride	3.030	84	78569	9.347	ug/l	99
16) trans-1,2-Dichloroethene	3.335	96	77415	9.547	ug/l	98
17) 1,1-Dichloroethane	3.849	63	147481	9.813	ug/l	98
18) 2-Butanone	4.708	43	137001	61.835	ug/l	100
19) Cyclohexane	5.364	56	120216	9.447	ug/l	97
20) Methylcyclohexane	6.740	83	128329	10.376	ug/l	97
21) 2,2-Dichloropropane	4.647	77	125291	9.790	ug/l	99
22) cis-1,2-Dichloroethene	4.647	96	85795	9.751	ug/l	99
23) Diethyl Ether	2.367	59	54743	10.062	ug/l	99
24) tert-Butyl Alcohol	3.184	59	63328	96.429	ug/l	100
25) Methyl tert-Butyl Ether	3.357	73	187363	10.052	ug/l	100
26) Bromochloromethane	4.955	128	37081	10.094	ug/l	98
27) Chloroform	5.071	83	149276	9.734	ug/l	100
28) 1,1,1-Trichloroethane	5.296	97	128095	9.841	ug/l	99
29) 1,1-Dichloropropene	5.505	75	116999	9.703	ug/l	98
30) Carbon Tetrachloride	5.502	117	106784	10.193	ug/l	96
31) Isopropyl Ether	3.991	45	221350	9.757	ug/l	98
32) Ethyl-t-butyl ether	4.502	59	204582	9.745	ug/l	98
33) Tert-Amyl methyl ether	5.939	73	181869	9.982	ug/l	100
34) Propionitrile	4.772	54	31784	47.084	ug/l #	94
35) Benzene	5.756	78	326804	10.088	ug/l	98
36) 1,2-Dichloroethane	5.782	62	101239	10.057	ug/l	99
37) Trichloroethene	6.525	130	87532	10.590	ug/l	97
38) 1,2-Dichloropropane	6.779	63	84731	11.175	ug/l	100
39) Methacrylonitrile	4.968	41	27645	9.213	ug/l	99
40) Methyl acrylate	4.846	55	40963	9.339	ug/l	96
41) Tetrahydrofuran	5.058	42	28312	17.936	ug/l	99
42) 1-Chlorobutane	5.438	56	159543	9.953	ug/l	100
43) Dibromomethane	6.904	93	39541	10.067	ug/l	95
44) Bromodichloromethane	7.094	83	89050	10.053	ug/l #	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063519.D
Acq On : 17 Jul 2025 09:25
Operator : MD/SY
Sample : VSTDCCC010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 04:09:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.795	43	211583	52.266	ug/l	100
46) t-1,4-Dichloro-2-butene	10.823	75	28706m	18.890	ug/l	
47) Methyl methacrylate	6.962	69	68946	20.900	ug/l	97
48) Ethyl methacrylate	8.332	69	68373	10.861	ug/l	98
49) Toluene	7.959	92	179669	10.158	ug/l	99
50) t-1,3-Dichloropropene	8.203	75	76515	11.010	ug/l	99
51) cis-1,3-Dichloropropene	7.598	75	98787	10.590	ug/l	99
52) 1,1,2-Trichloroethane	8.393	97	54808	10.365	ug/l	97
53) 1,3-Dichloropropane	8.566	76	91688	10.044	ug/l	99
54) 2-Hexanone	8.685	43	162869	60.570	ug/l	100
55) Dibromochloromethane	8.801	129	62870	11.250	ug/l	100
56) 1,2-Dibromoethane	8.917	107	48870	10.326	ug/l	99
58) Tetrachloroethene	8.541	164	73468	9.712	ug/l	99
59) Chlorobenzene	9.438	112	208332	10.255	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.524	131	67746	10.370	ug/l	99
61) Pentachloroethane	11.418	117	49738	10.774	ug/l	100
62) Hexachloroethane	12.466	117	50359	11.016	ug/l	100
63) Ethyl Benzene	9.563	91	354702	10.146	ug/l	100
64) m/p-Xylenes	9.685	106	280366	20.632	ug/l	99
65) o-Xylene	10.090	106	137219	10.509	ug/l	99
66) Styrene	10.106	104	224585	10.792	ug/l	100
67) Bromoform	10.283	173	31862	11.101	ug/l	99
69) Isopropylbenzene	10.476	105	331800	10.511	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.775	83	67383	10.472	ug/l	99
71) 1,2,3-Trichloropropane	10.814	75	53509m	10.239	ug/l	
72) Bromobenzene	10.775	156	85460	10.490	ug/l	98
73) n-propylbenzene	10.897	120	100342	10.559	ug/l	98
74) 2-Chlorotoluene	10.978	126	87826	10.457	ug/l	99
75) 1,3,5-Trimethylbenzene	11.081	105	319519	10.596	ug/l	99
76) 4-Chlorotoluene	11.090	126	91522	10.731	ug/l	96
77) tert-Butylbenzene	11.412	119	303113	10.518	ug/l	100
78) 1,2,4-Trimethylbenzene	11.460	105	319824	10.690	ug/l	100
79) sec-Butylbenzene	11.634	105	407802	10.493	ug/l	100
80) Nitrobenzene	13.203	77	6990	48.829	ug/l	98
81) p-Isopropyltoluene	11.785	119	347537	10.712	ug/l	99
82) 1,3-Dichlorobenzene	11.737	146	170997	10.490	ug/l	100
83) 1,4-Dichlorobenzene	11.830	146	171995	10.541	ug/l	99
84) n-Butylbenzene	12.200	91	331771	11.026	ug/l	100
85) 1,2-Dichlorobenzene	12.203	146	161014	10.514	ug/l	99
86) 1,2-Dibromo-3-Chloropr...	12.987	75	11077	10.149	ug/l	96
87) 1,2,4-Trichlorobenzene	13.833	180	104878	11.013	ug/l	100
88) Hexachlorobutadiene	14.013	225	56592	10.464	ug/l	99
89) Naphthalene	14.081	128	188918	11.071	ug/l	100
90) 1,2,3-Trichlorobenzene	14.322	180	98222	11.161	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063519.D
Acq On : 17 Jul 2025 09:25
Operator : MD/SY
Sample : VSTDCCC010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 04:09:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

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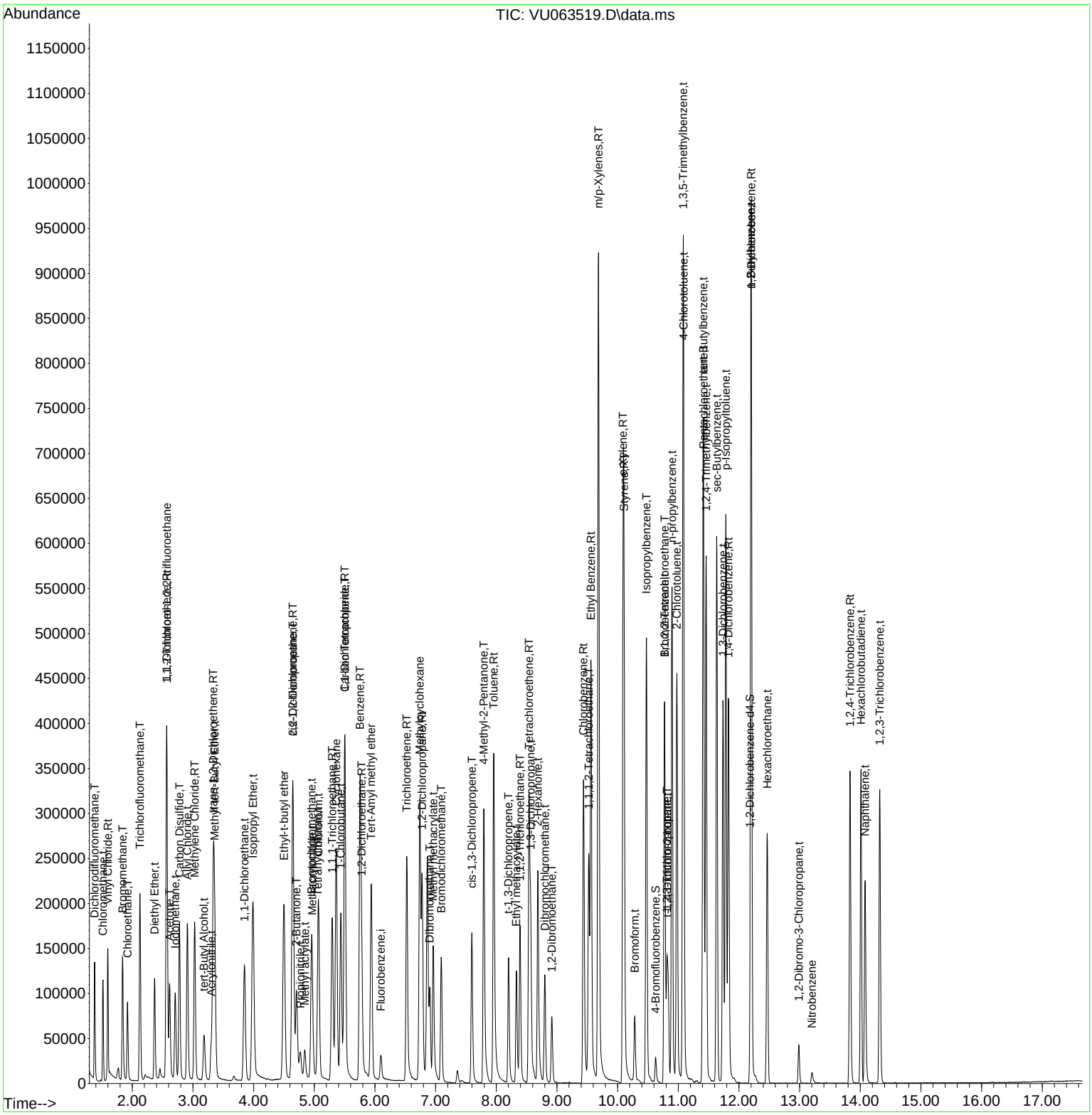
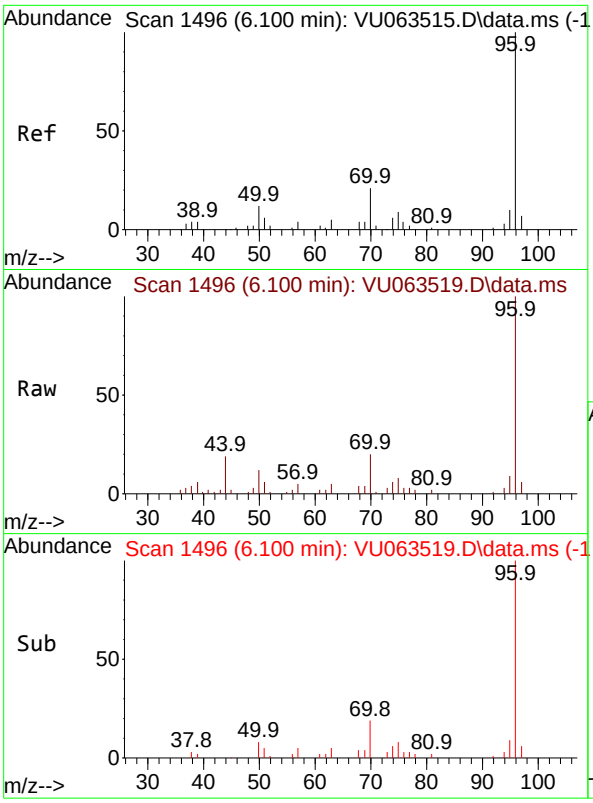
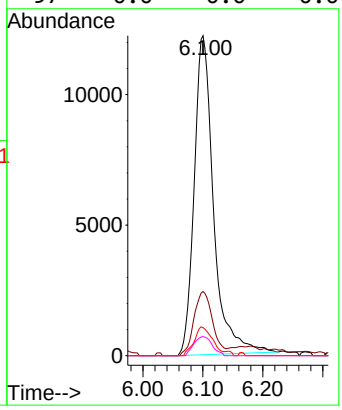




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.100 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 96 Resp: 2750

Ion	Ratio	Lower	Upper
96	100		
70	17.1	15.0	22.4
95	7.3	7.4	11.0
97	0.0	0.0	0.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

Manual Integrations
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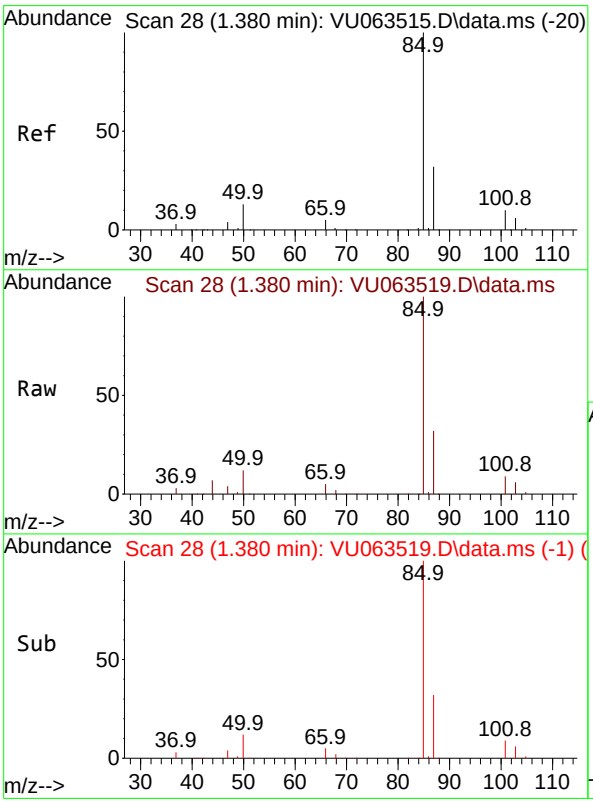
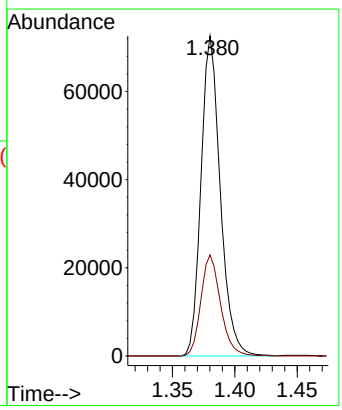
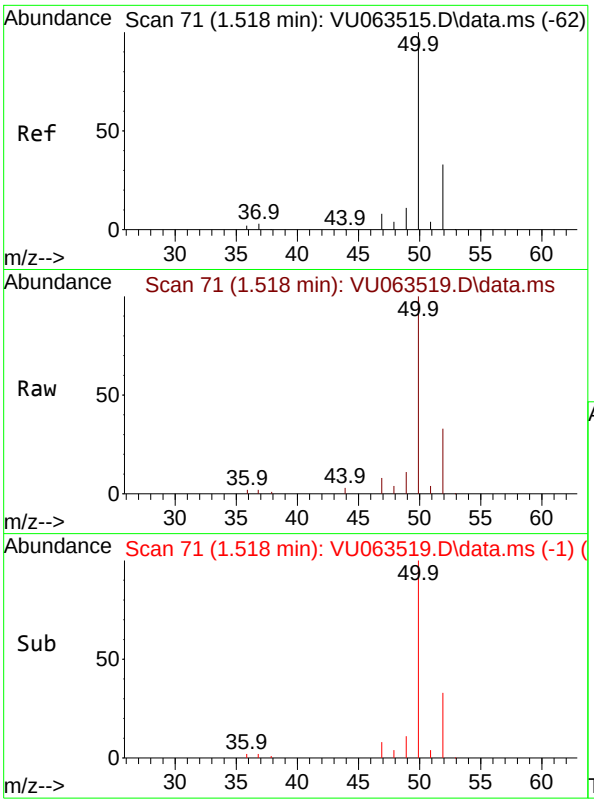


#2
Dichlorodifluoromethane
Concen: 9.643 ug/l
RT: 1.380 min Scan# 28
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 85 Resp: 78194

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.0	47.9

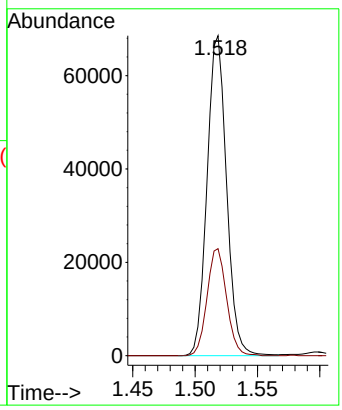




#3
Chloromethane
Concen: 9.902 ug/l
RT: 1.518 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 50 Resp: 7463

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.3	39.5



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

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Reviewed By :Mahesh Dadoda 07/18/2025
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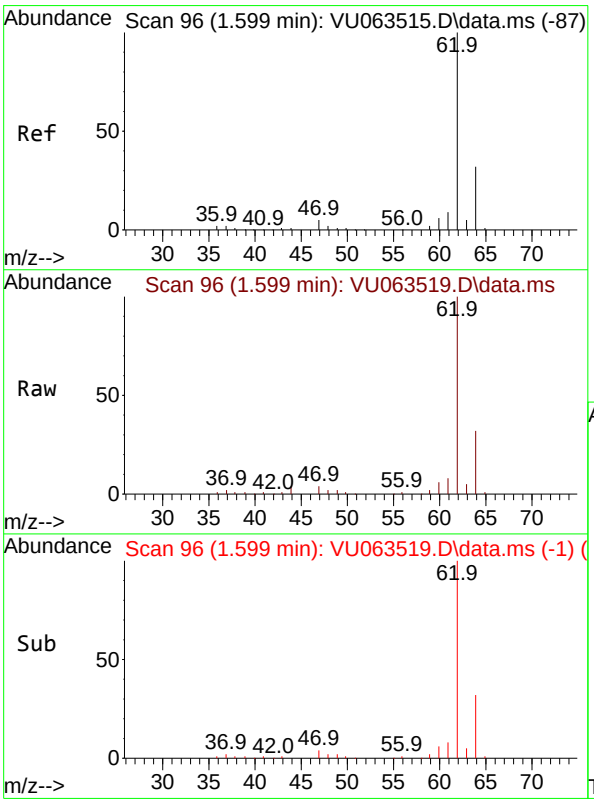
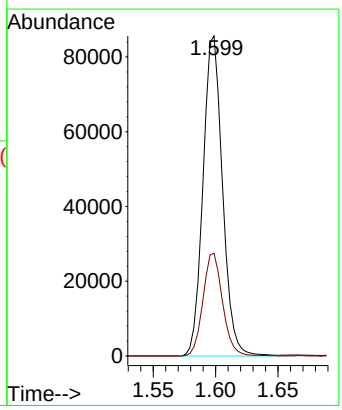
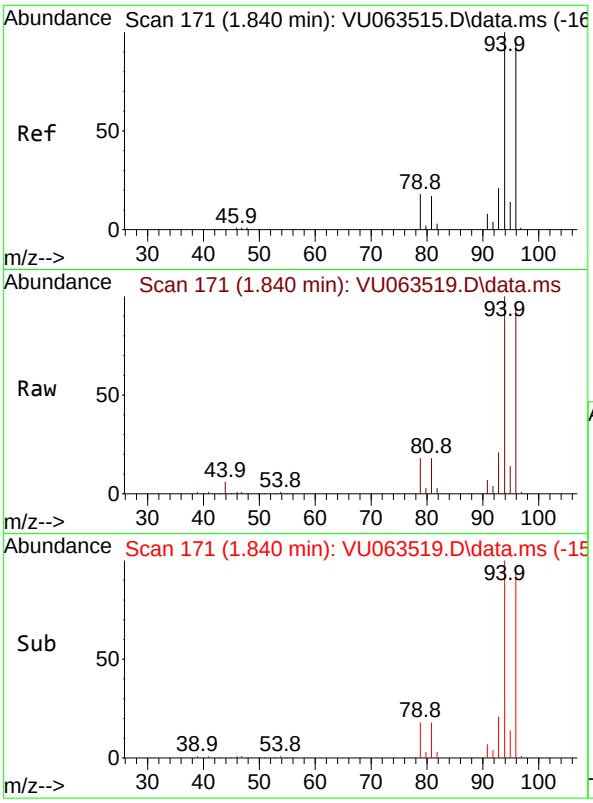


#4
Vinyl Chloride
Concen: 9.718 ug/l
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 62 Resp: 93296

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.7	38.5

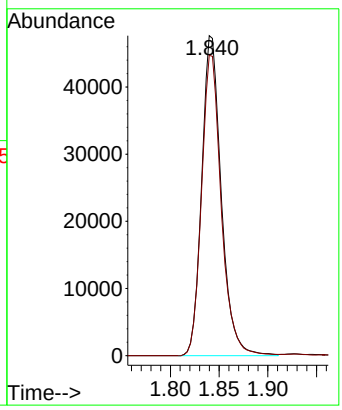




#5
Bromomethane
Concen: 9.188 ug/l
RT: 1.840 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 94 Resp: 6651

Ion	Ratio	Lower	Upper
94	100		
96	93.8	75.8	113.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

Manual Integrations
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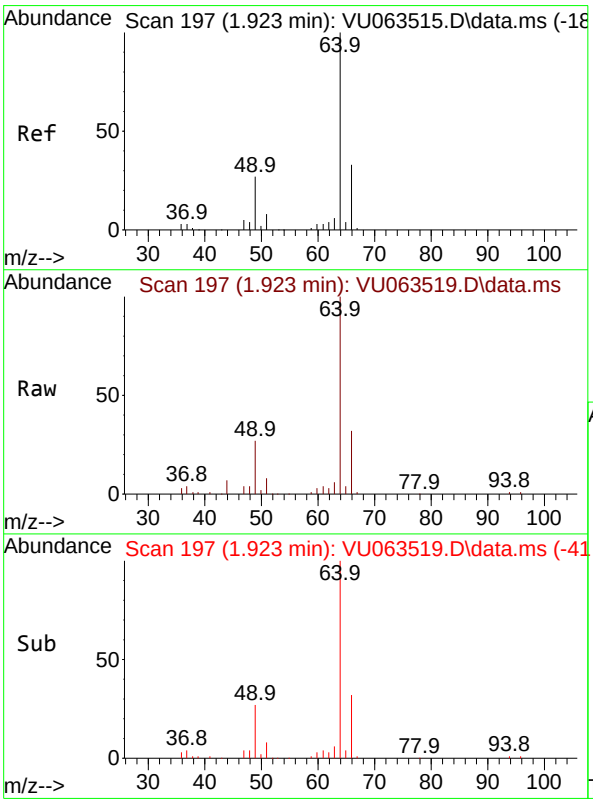
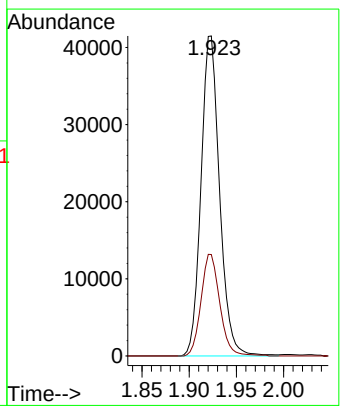
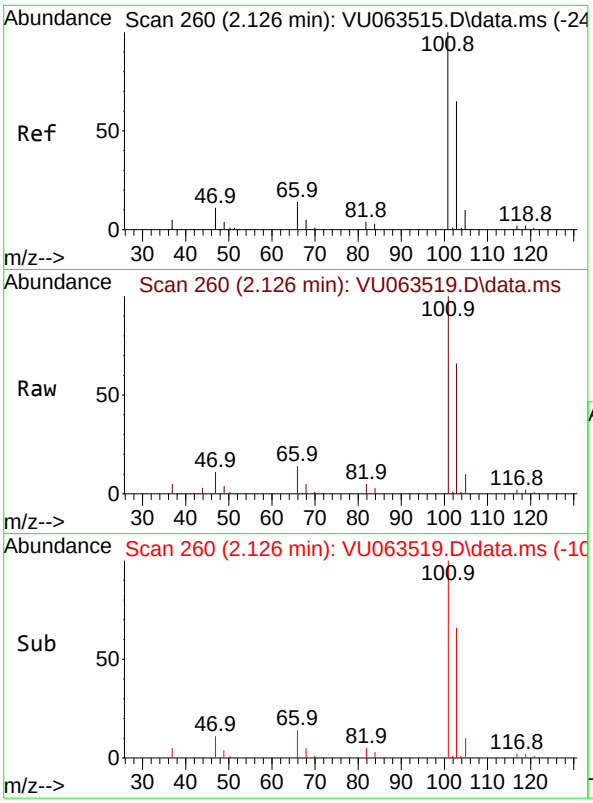


#6
Chloroethane
Concen: 9.774 ug/l
RT: 1.923 min Scan# 197
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 64 Resp: 56651

Ion	Ratio	Lower	Upper
64	100		
66	31.7	26.2	39.4





#7
Trichlorofluoromethane
Concen: 9.648 ug/l
RT: 2.126 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:101 Resp: 13298

Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.2	78.4

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

Manual Integrations
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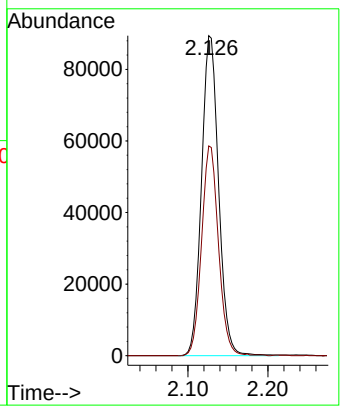
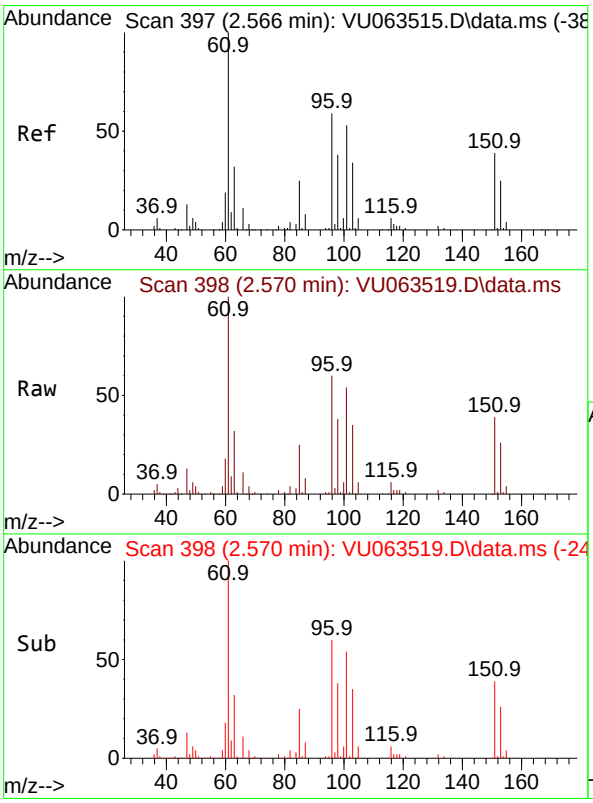
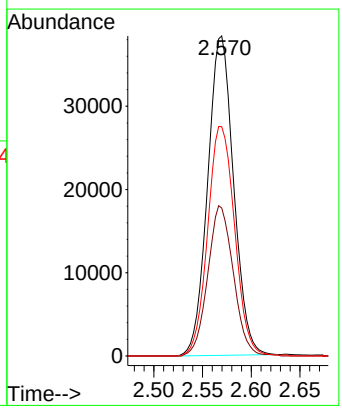


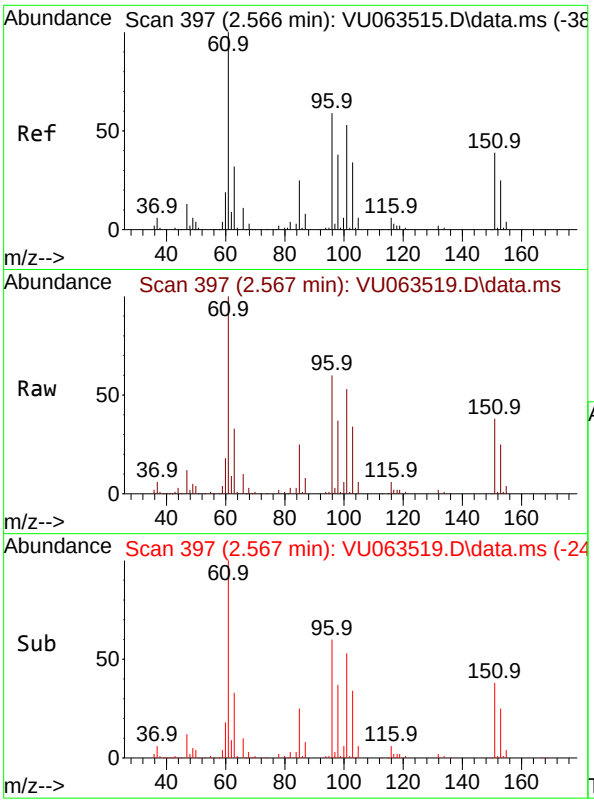


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 9.874 ug/l
RT: 2.570 min Scan# 398
Delta R.T. 0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:101 Resp: 71124

Ion	Ratio	Lower	Upper
101	100		
85	46.4	37.8	56.6
151	74.9	59.2	88.8

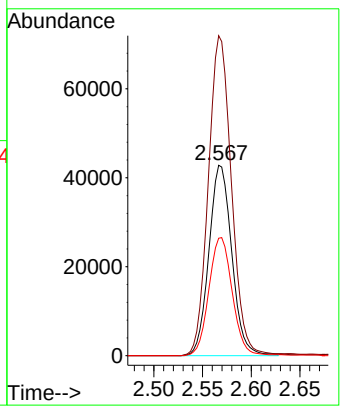




#9
1,1-Dichloroethene
Concen: 9.834 ug/l
RT: 2.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 96 Resp: 7021

Ion	Ratio	Lower	Upper
96	100		
61	168.0	0.0	504.3
98	61.7	0.0	126.8



Instrument :
MSVOA_U
ClientSampleId :
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Manual Integrations
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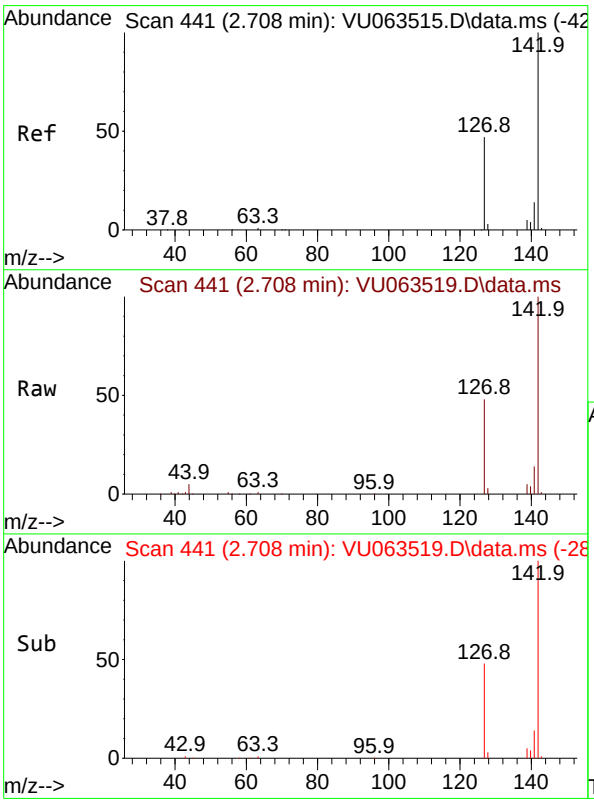
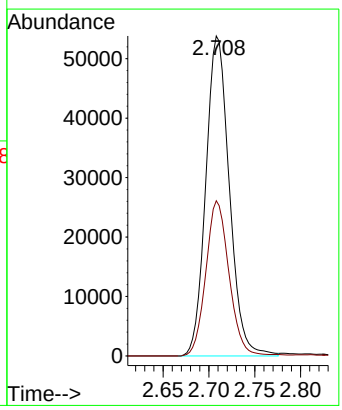
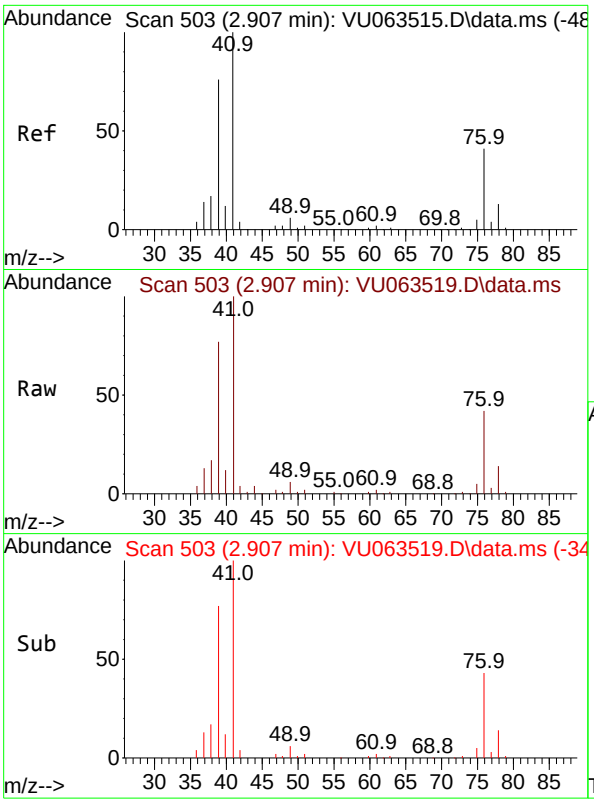


#10
Iodomethane
Concen: 9.096 ug/l
RT: 2.708 min Scan# 441
Delta R.T. -0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:142 Resp: 96119

Ion	Ratio	Lower	Upper
142	100		
127	48.0	37.9	56.9

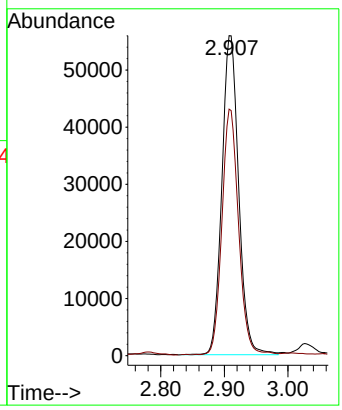




#11
Allyl Chloride
Concen: 9.904 ug/l
RT: 2.907 min Scan# 5
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 41 Resp: 10215

Ion	Ratio	Lower	Upper
41	100		
39	76.2	61.5	92.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

Manual Integrations
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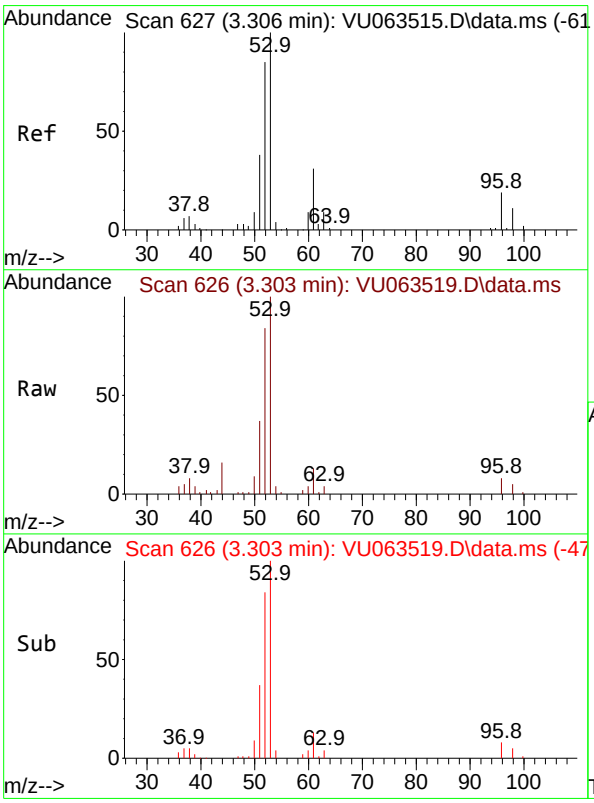
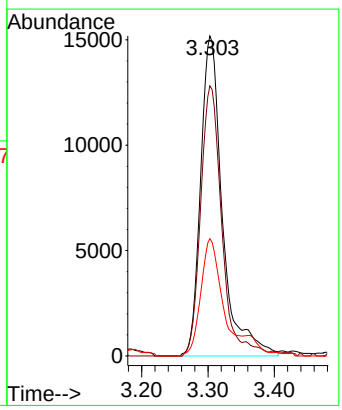
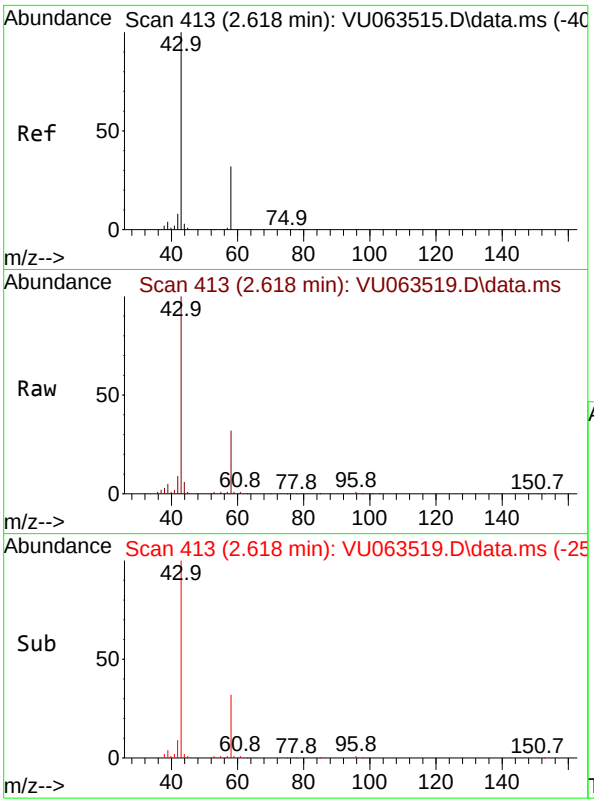


#12
Acrylonitrile
Concen: 19.426 ug/l
RT: 3.303 min Scan# 626
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 53 Resp: 34689

Ion	Ratio	Lower	Upper
53	100		
52	81.5	64.3	96.5
51	36.0	27.8	41.8

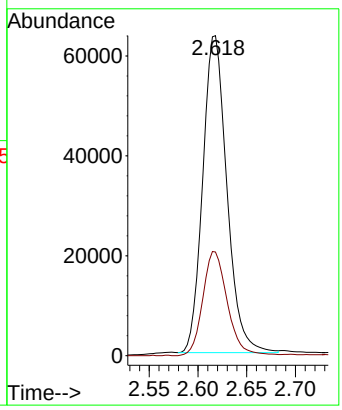




#13
Acetone
Concen: 76.573 ug/l
RT: 2.618 min Scan# 41
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 43 Resp: 10955

Ion	Ratio	Lower	Upper
43	100		
58	32.7	25.4	38.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

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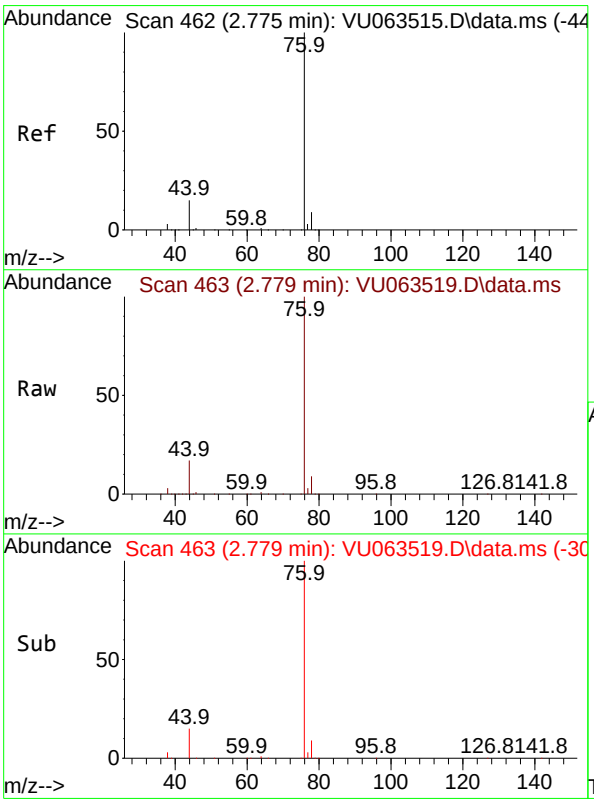
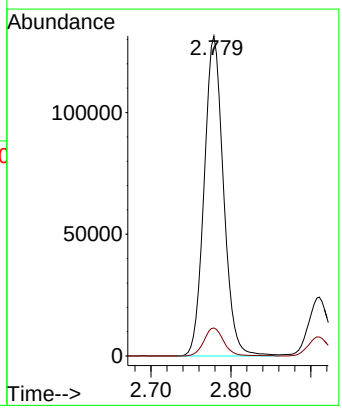
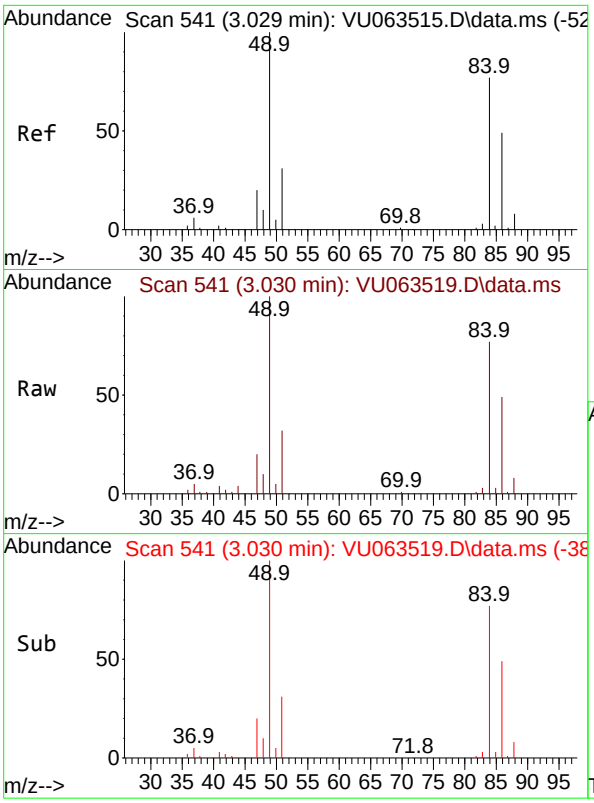


#14
Carbon Disulfide
Concen: 9.597 ug/l
RT: 2.779 min Scan# 463
Delta R.T. 0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 76 Resp: 221309

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.6

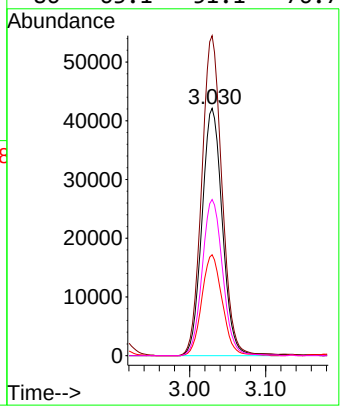




#15
Methylene Chloride
Concen: 9.347 ug/l
RT: 3.030 min Scan# 54
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 84 Resp: 7856

Ion	Ratio	Lower	Upper
84	100		
49	129.4	103.8	155.8
51	40.8	0.0	80.4
86	63.1	51.1	76.7



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

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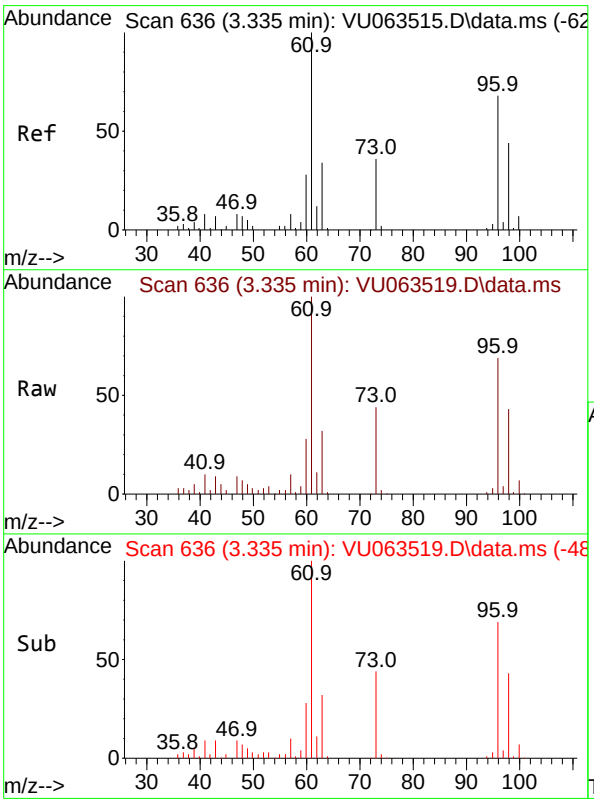
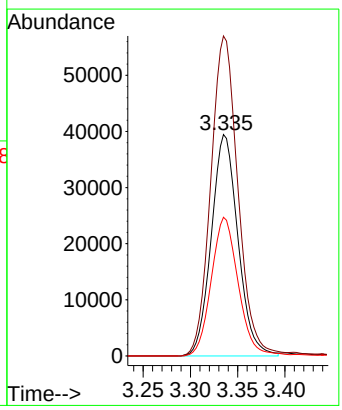
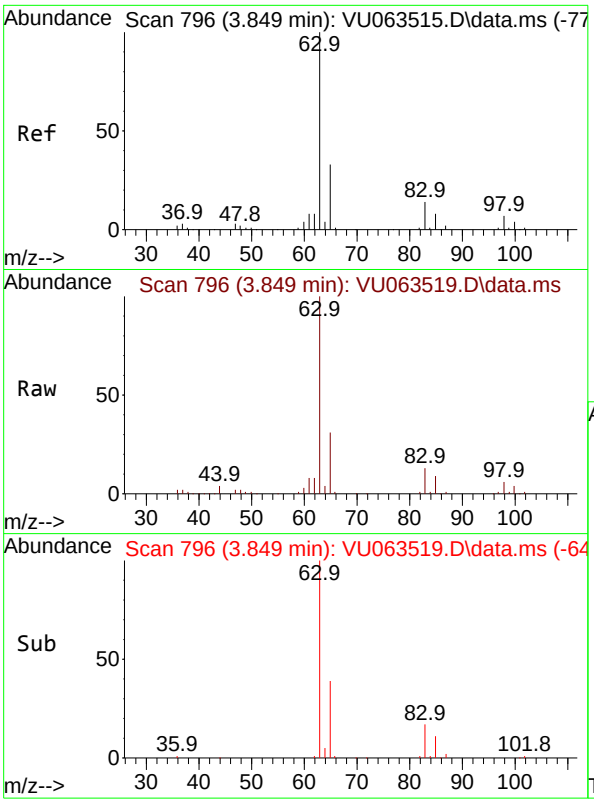


#16
trans-1,2-Dichloroethene
Concen: 9.547 ug/l
RT: 3.335 min Scan# 636
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 96 Resp: 77415

Ion	Ratio	Lower	Upper
96	100		
61	144.5	117.2	175.8
98	62.6	51.4	77.2

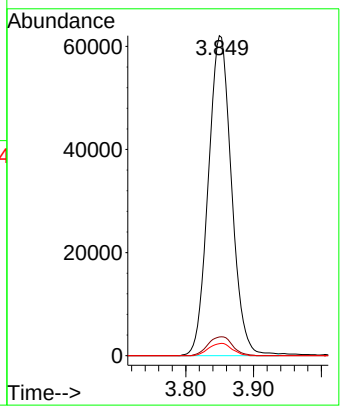




#17
1,1-Dichloroethane
Concen: 9.813 ug/l
RT: 3.849 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 63 Resp: 14748

Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.4	10.2
100	3.7	2.1	6.2



Instrument :
MSVOA_U
ClientSampleId :
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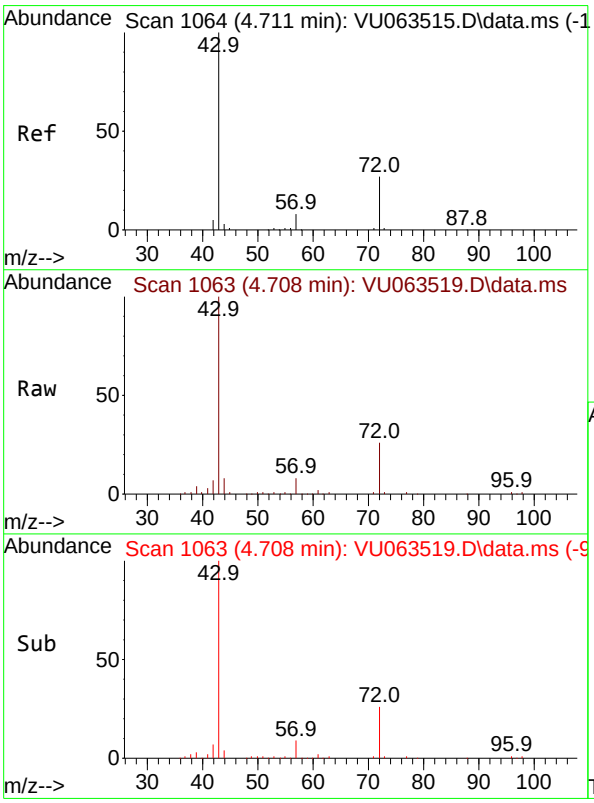
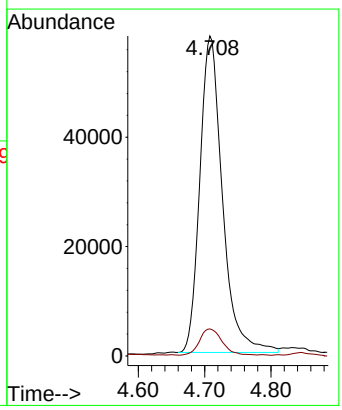
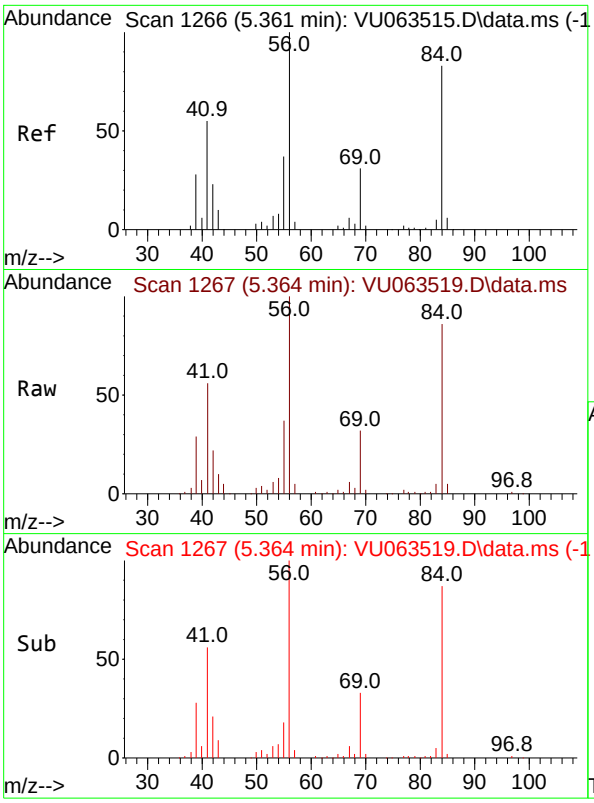


#18
2-Butanone
Concen: 61.835 ug/l
RT: 4.708 min Scan# 1063
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 43 Resp: 137001

Ion	Ratio	Lower	Upper
43	100		
57	8.3	0.0	16.4





#19
Cyclohexane
Concen: 9.447 ug/l
RT: 5.364 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 56 Resp: 12021

Ion	Ratio	Lower	Upper
56	100		
69	34.3	26.6	39.8
84	91.3	71.0	106.4

Instrument :
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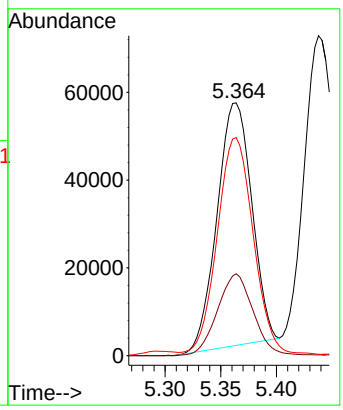
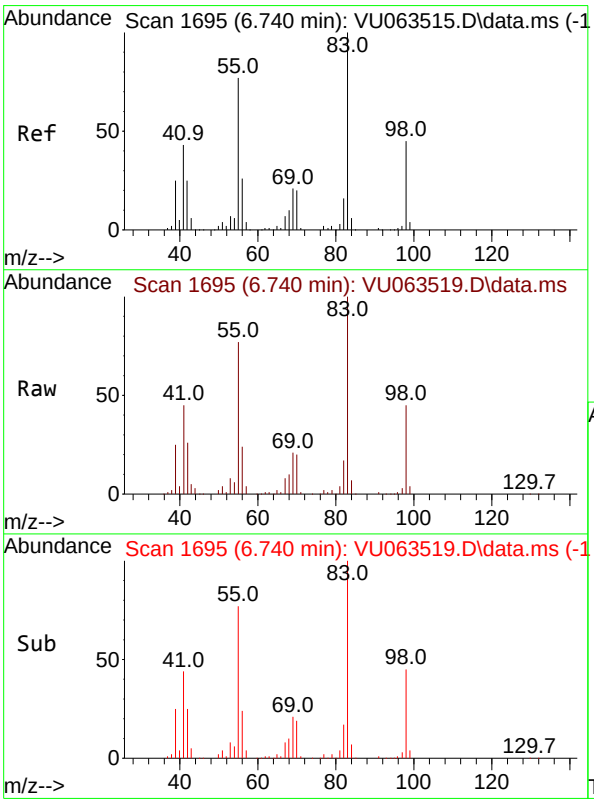
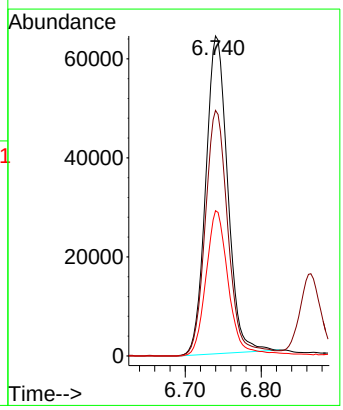


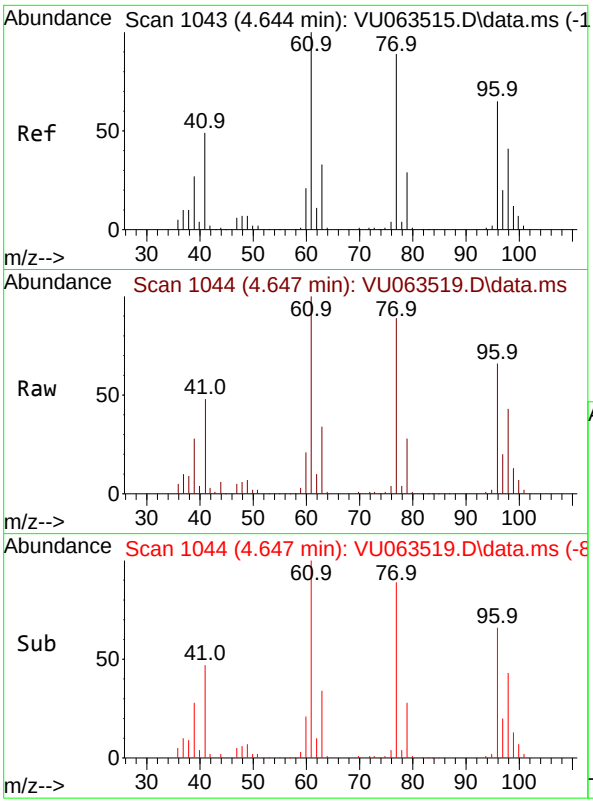


#20
Methylcyclohexane
Concen: 10.376 ug/l
RT: 6.740 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 83 Resp: 128329

Ion	Ratio	Lower	Upper
83	100		
55	77.8	60.6	90.8
98	47.0	35.8	53.8

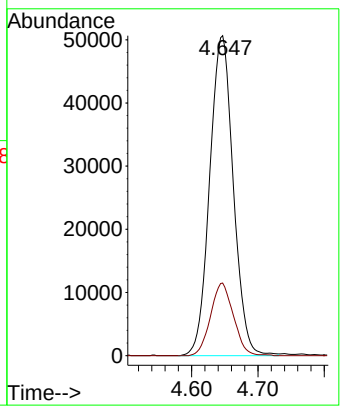




#21
2,2-Dichloropropane
Concen: 9.790 ug/l
RT: 4.647 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 77 Resp: 12529

Ion	Ratio	Lower	Upper
77	100		
97	22.0	17.8	26.8



Instrument :
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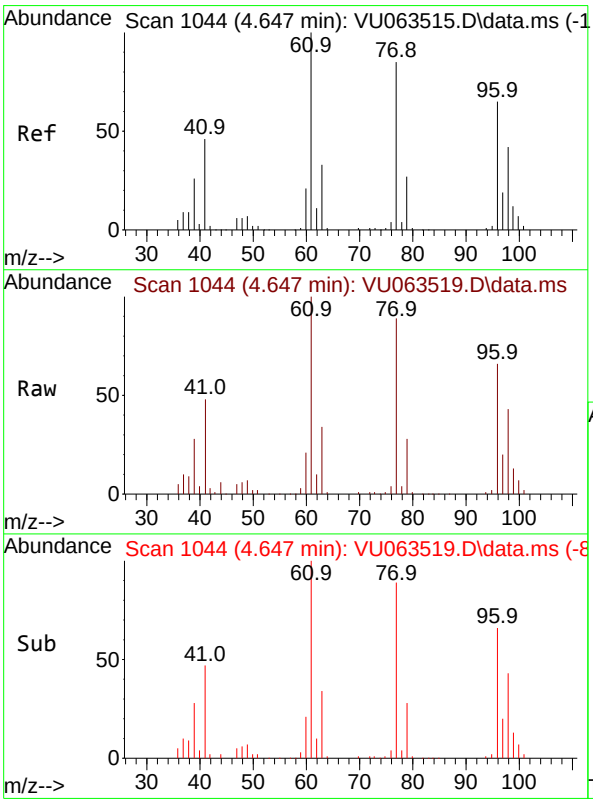
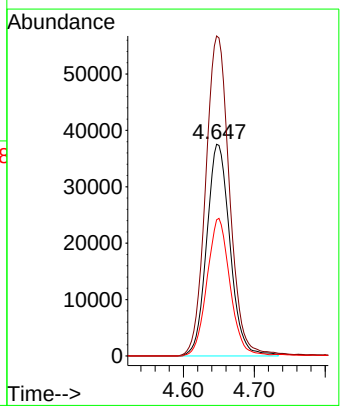
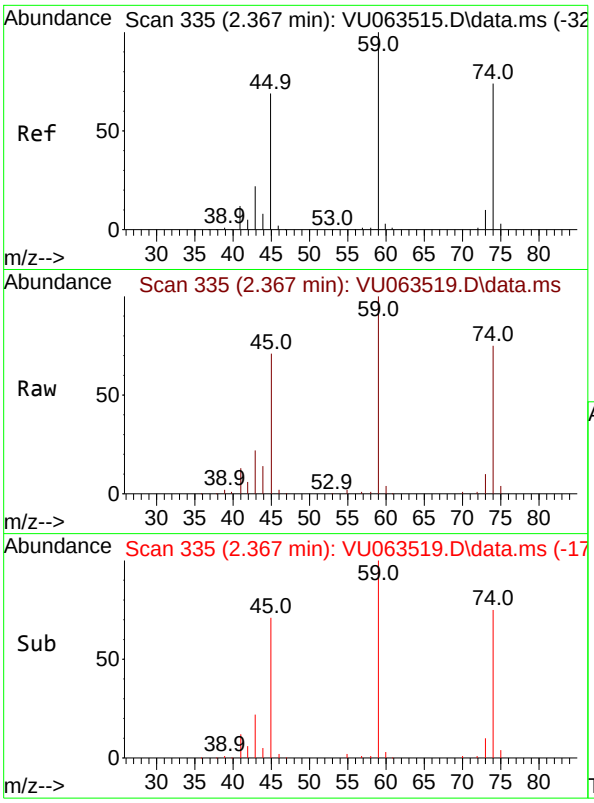


#22
cis-1,2-Dichloroethene
Concen: 9.751 ug/l
RT: 4.647 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 96 Resp: 85795

Ion	Ratio	Lower	Upper
96	100		
61	154.9	0.0	384.7
98	64.2	32.1	96.3

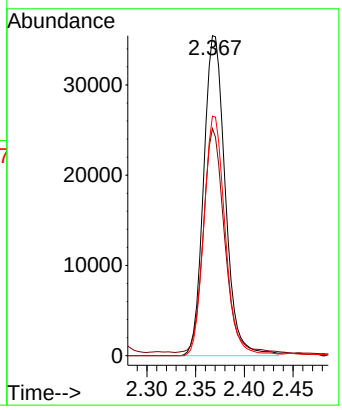




#23
Diethyl Ether
Concen: 10.062 ug/l
RT: 2.367 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 59 Resp: 5474

Ion	Ratio	Lower	Upper
59	100		
45	68.8	55.1	82.7
74	73.8	58.2	87.4



Instrument :
MSVOA_U
ClientSampleId :
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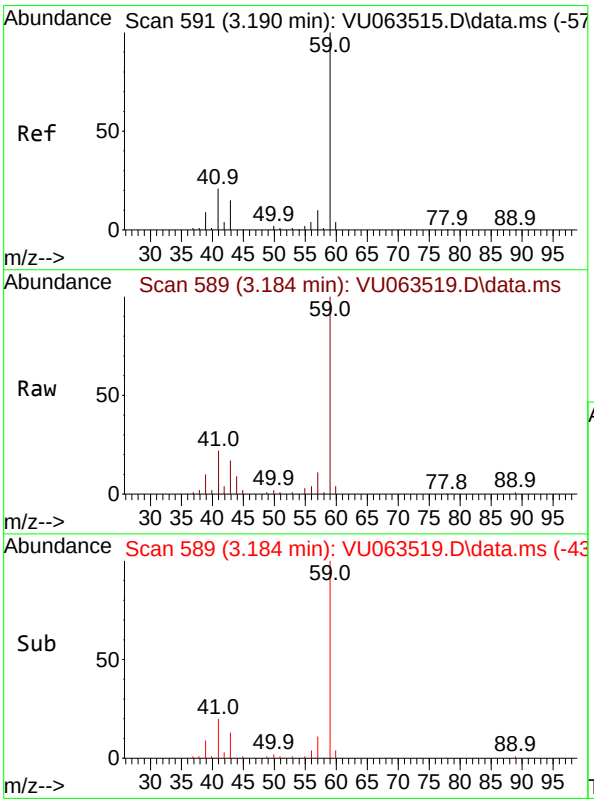
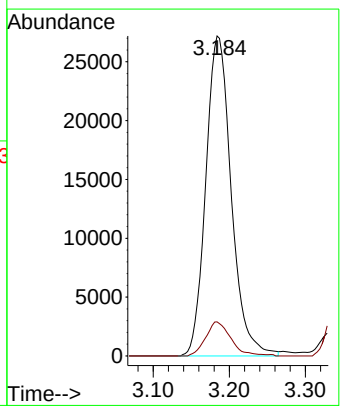
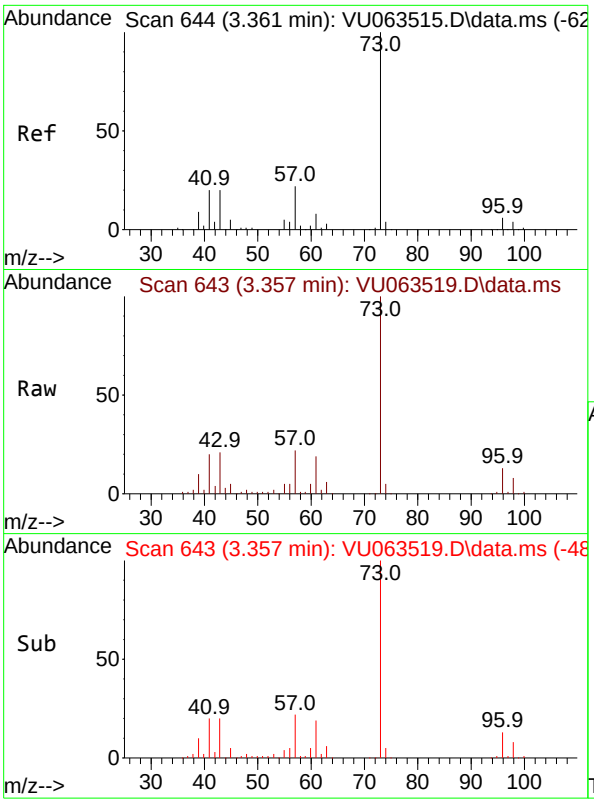


#24
tert-Butyl Alcohol
Concen: 96.429 ug/l
RT: 3.184 min Scan# 589
Delta R.T. -0.006 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 59 Resp: 63328

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.6	12.8





#25
Methyl tert-Butyl Ether
Concen: 10.052 ug/l
RT: 3.357 min Scan# 64
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 73 Resp: 18736

Ion	Ratio	Lower	Upper
73	100		
43	20.1	16.2	24.2

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

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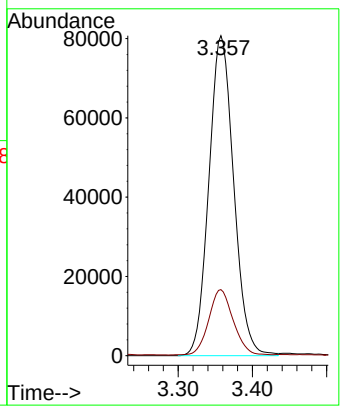
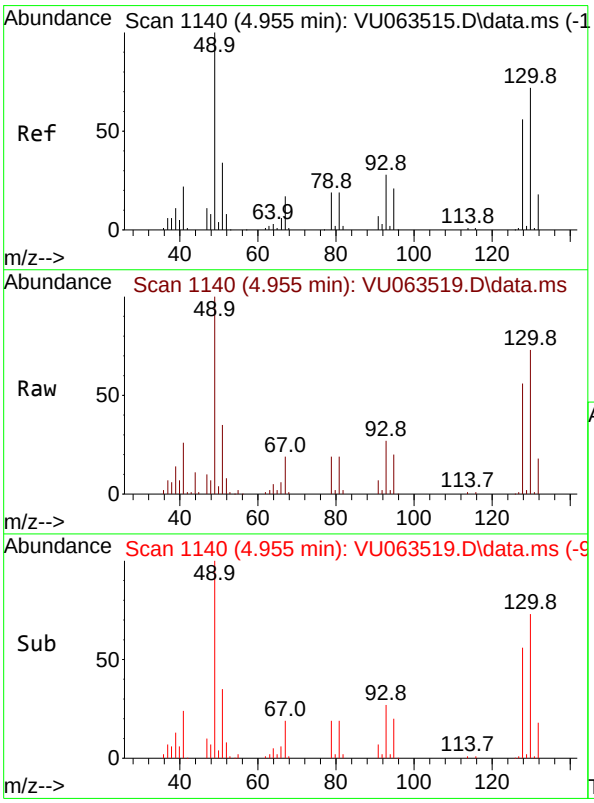
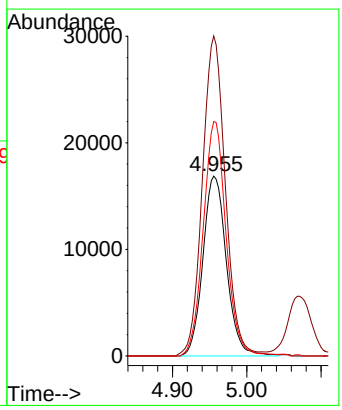


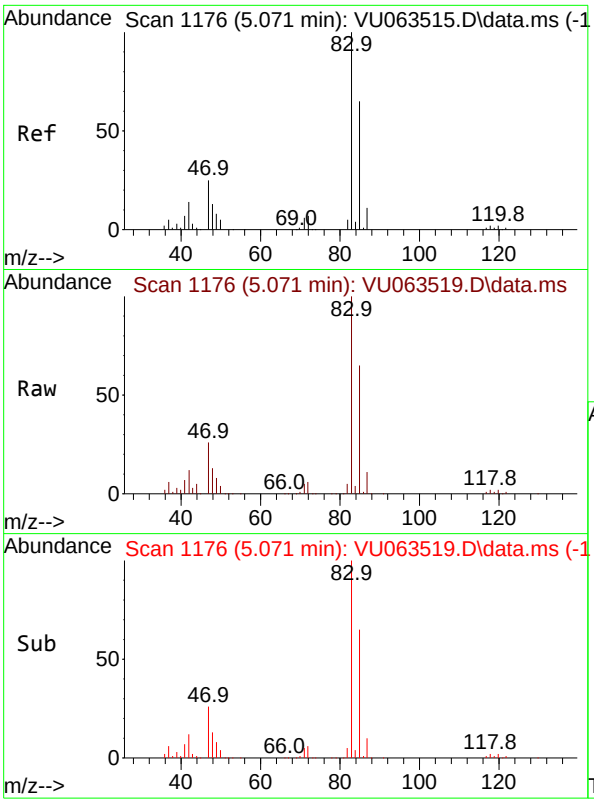


#26
Bromochloromethane
Concen: 10.094 ug/l
RT: 4.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:128 Resp: 37081

Ion	Ratio	Lower	Upper
128	100		
49	173.8	0.0	340.8
130	126.8	100.5	150.7

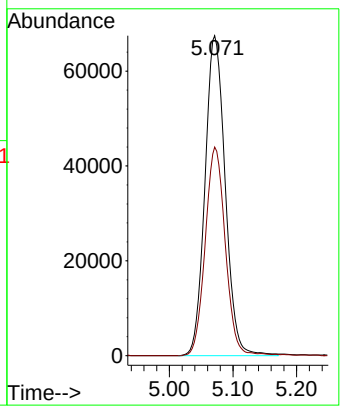




#27
Chloroform
Concen: 9.734 ug/l
RT: 5.071 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 83 Resp: 14927

Ion	Ratio	Lower	Upper
83	100		
85	65.2	0.0	130.0



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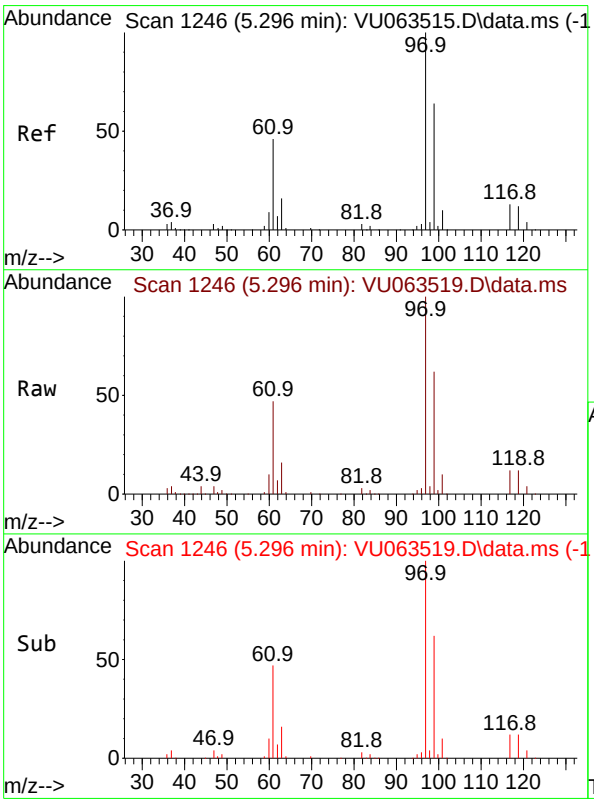
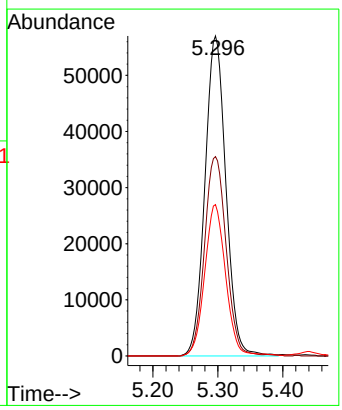
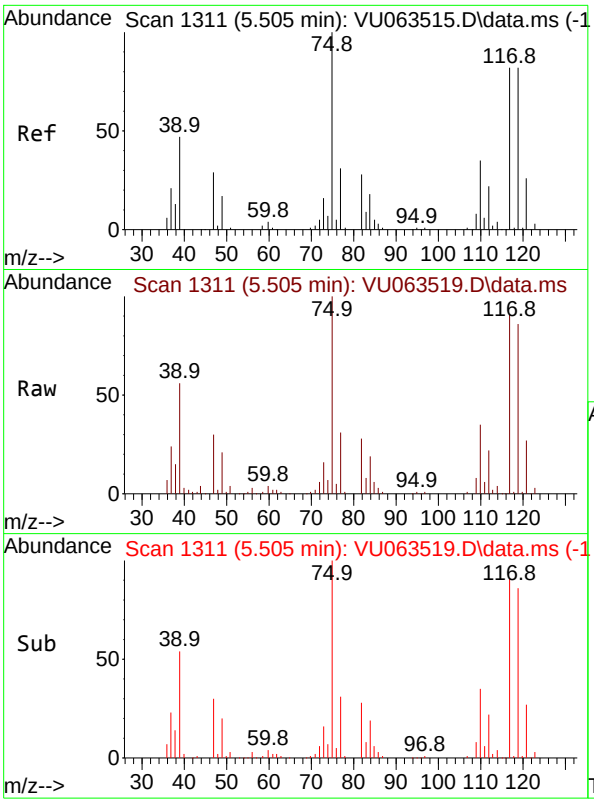


#28
1,1,1-Trichloroethane
Concen: 9.841 ug/l
RT: 5.296 min Scan# 1246
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 97 Resp: 128095

Ion	Ratio	Lower	Upper
97	100		
99	64.3	31.8	95.3
61	47.5	23.3	69.9





#29
1,1-Dichloropropene
Concen: 9.703 ug/l
RT: 5.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 75 Resp: 11699

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.8	53.4
77	29.9	24.6	37.0

Instrument :
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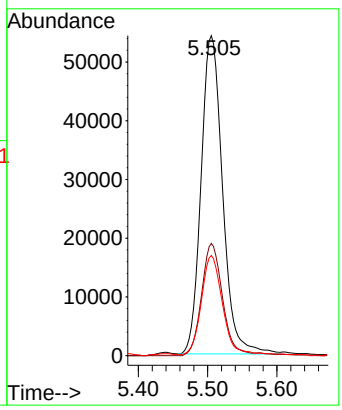
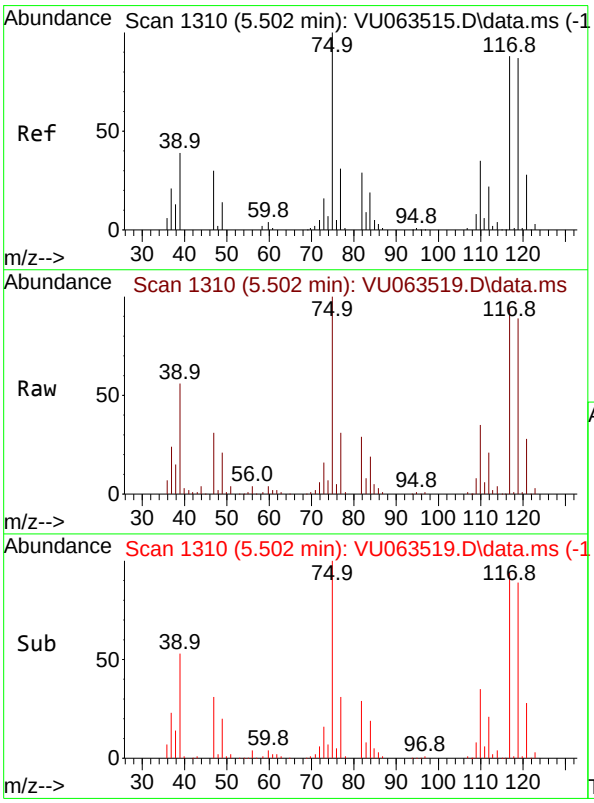
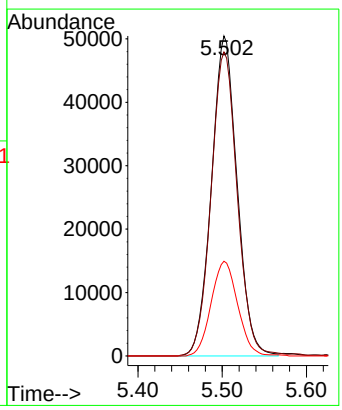


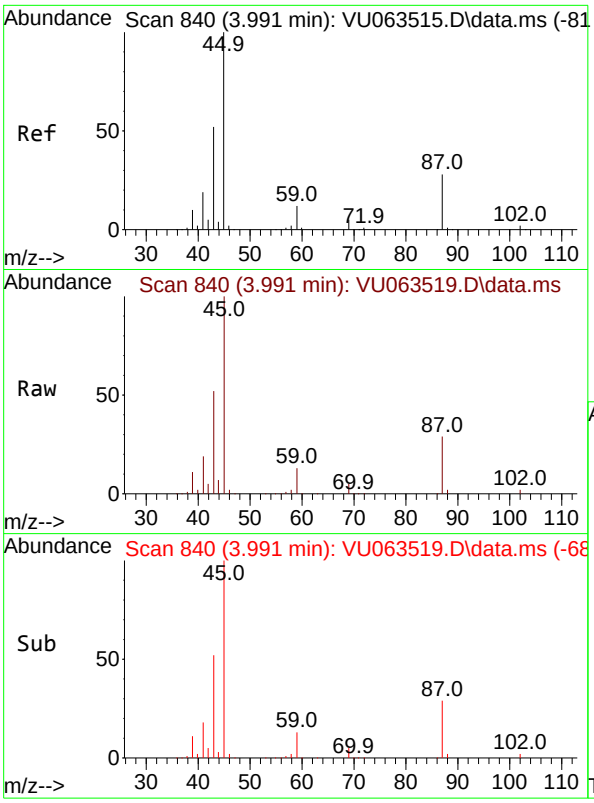


#30
Carbon Tetrachloride
Concen: 10.193 ug/l
RT: 5.502 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:117 Resp: 106784

Ion	Ratio	Lower	Upper
117	100		
119	95.0	79.2	118.8
121	29.6	25.5	38.3

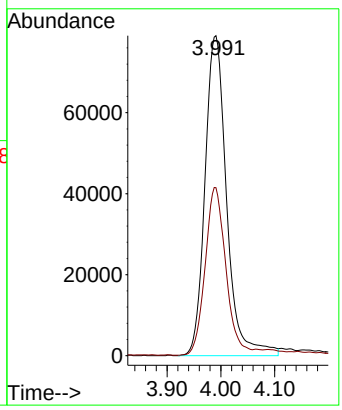




#31
Isopropyl Ether
Concen: 9.757 ug/l
RT: 3.991 min Scan# 84
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 45 Resp: 22135

Ion	Ratio	Lower	Upper
45	100		
43	50.0	25.7	77.0



Instrument :
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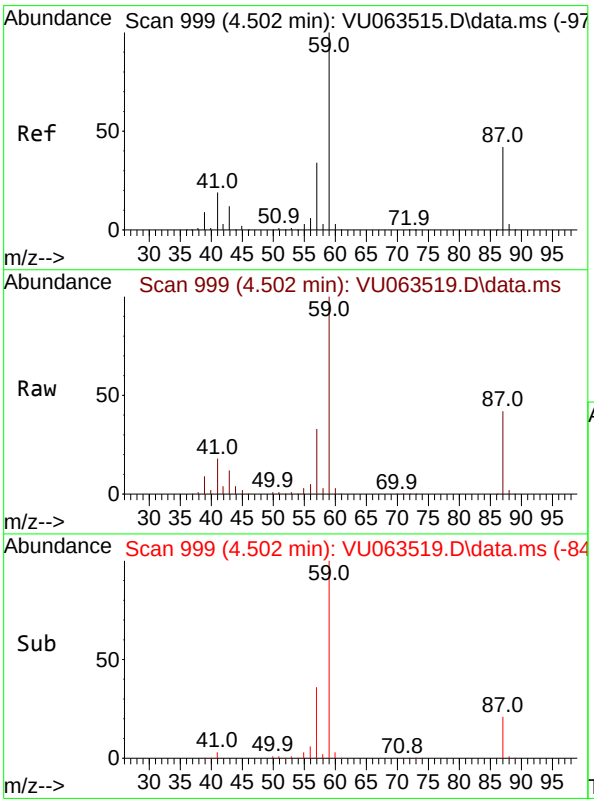
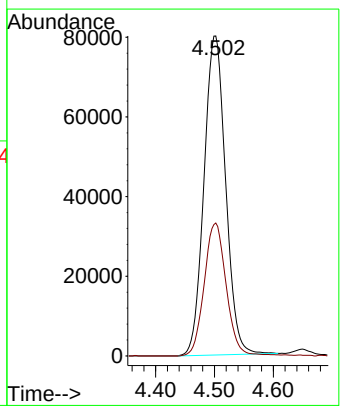
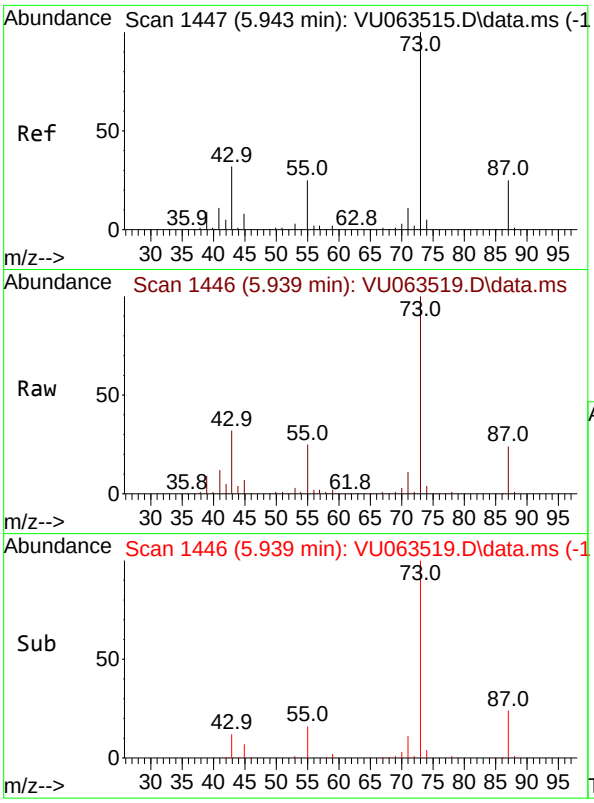


#32
Ethyl-t-butyl ether
Concen: 9.745 ug/l
RT: 4.502 min Scan# 999
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 59 Resp: 204582

Ion	Ratio	Lower	Upper
59	100		
87	41.9	32.6	49.0

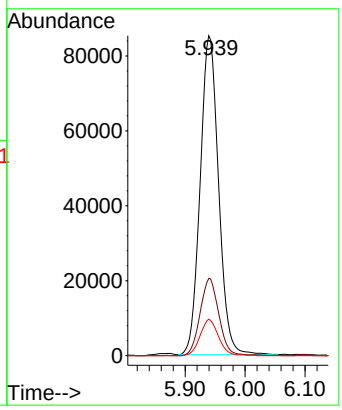




#33
Tert-Amyl methyl ether
Concen: 9.982 ug/l
RT: 5.939 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 73 Resp: 18186

Ion	Ratio	Lower	Upper
73	100		
87	24.3	19.4	29.2
71	11.2	8.9	13.3



Instrument :
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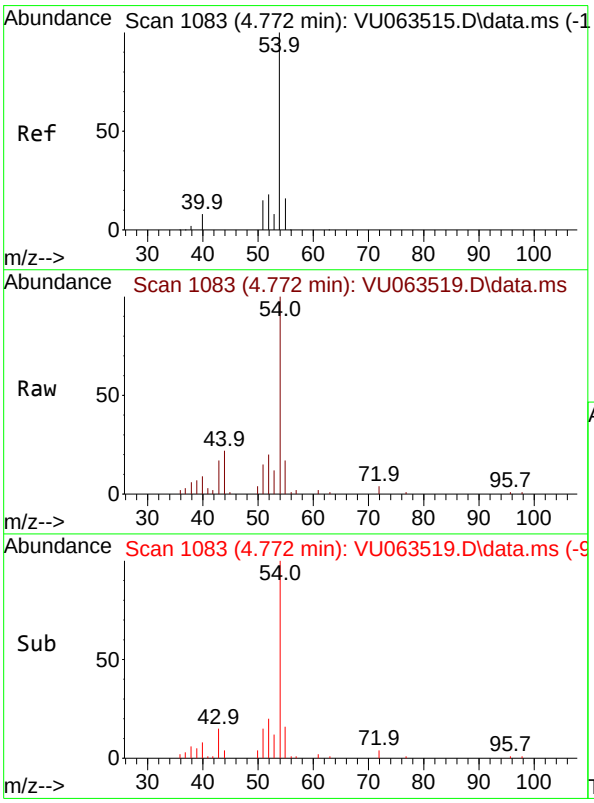
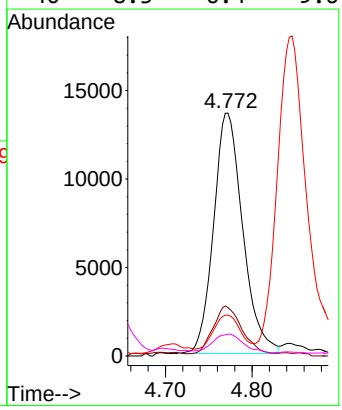
Supervised By :Semsettin Yesilyurt 07/21/2025

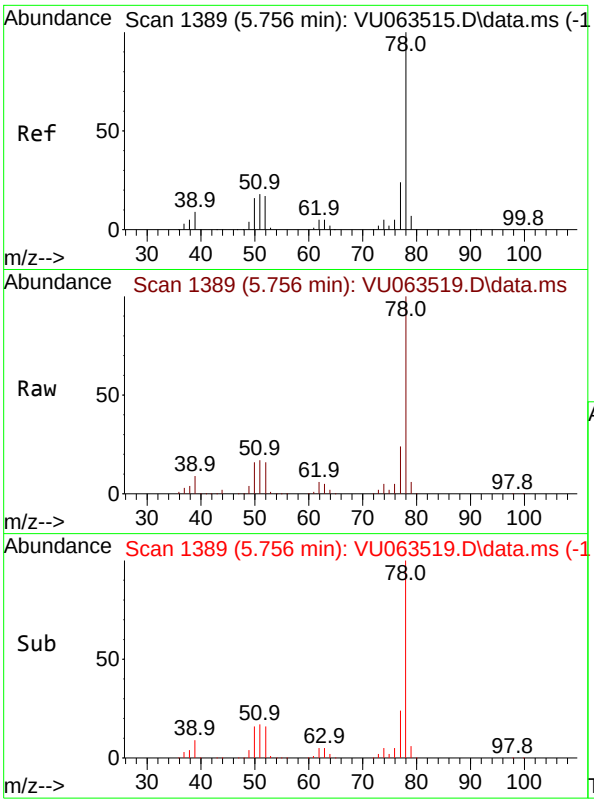


#34
Propionitrile
Concen: 47.084 ug/l
RT: 4.772 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 54 Resp: 31784

Ion	Ratio	Lower	Upper
54	100		
52	19.2	17.0	25.4
55	12.9	13.6	20.4#
40	8.3	6.4	9.6

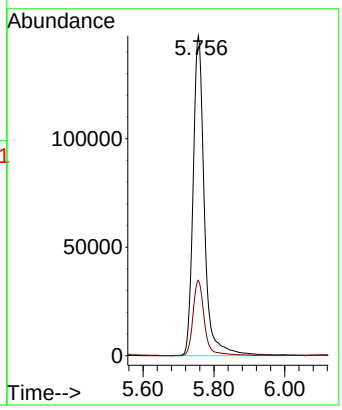




#35
Benzene
Concen: 10.088 ug/l
RT: 5.756 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 78 Resp: 32680

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.4	29.2



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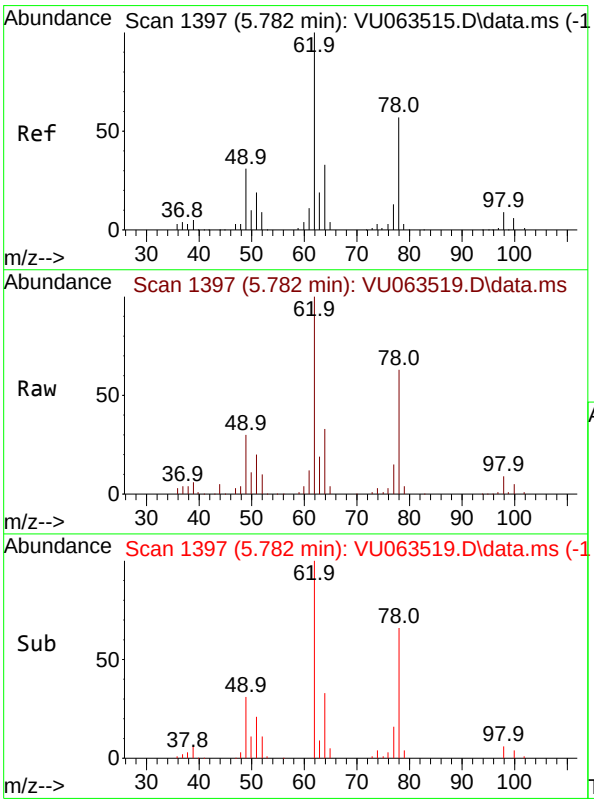
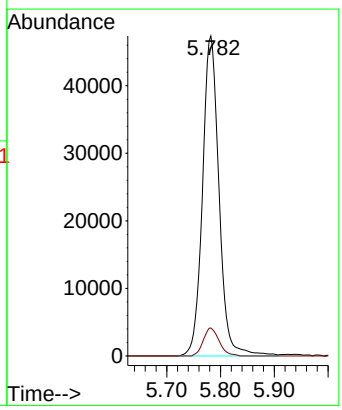
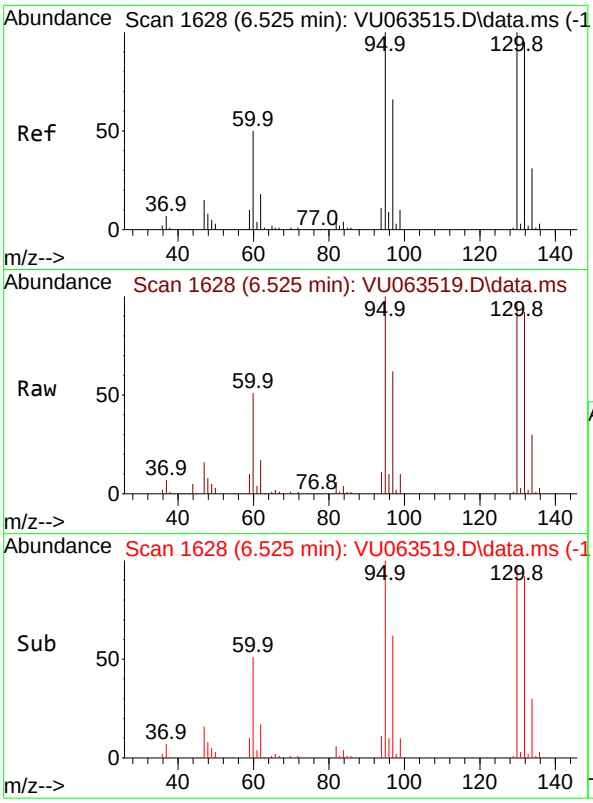


#36
1,2-Dichloroethane
Concen: 10.057 ug/l
RT: 5.782 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 62 Resp: 101239

Ion	Ratio	Lower	Upper
62	100		
98	8.4	6.4	9.6

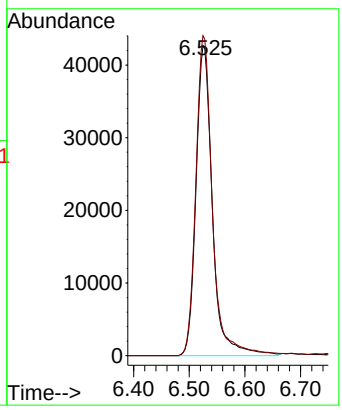




#37
Trichloroethene
Concen: 10.590 ug/l
RT: 6.525 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:130 Resp: 8753

Ion	Ratio	Lower	Upper
130	100		
95	103.2	80.3	120.5



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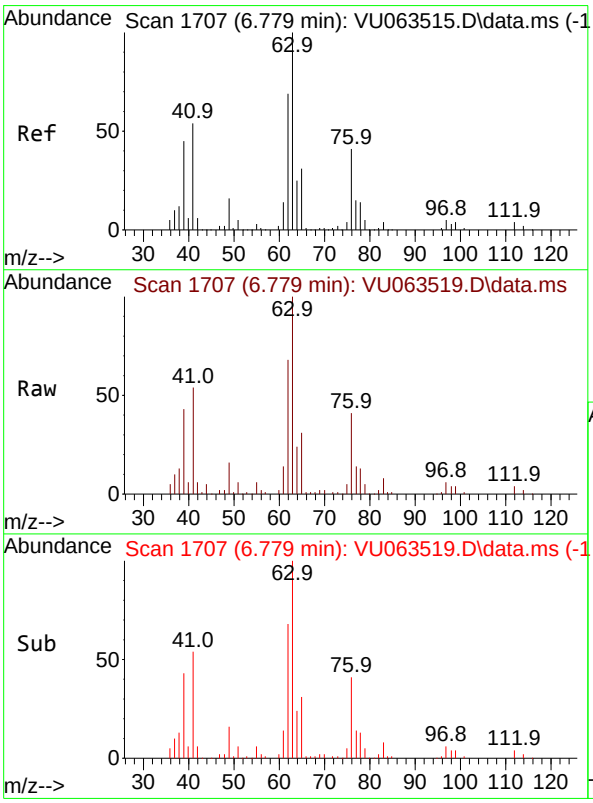
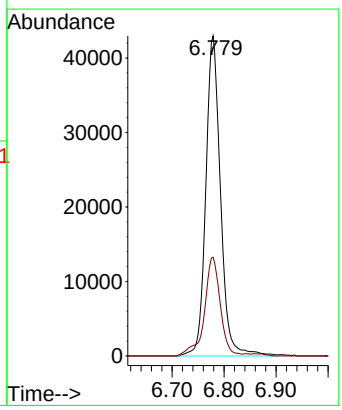
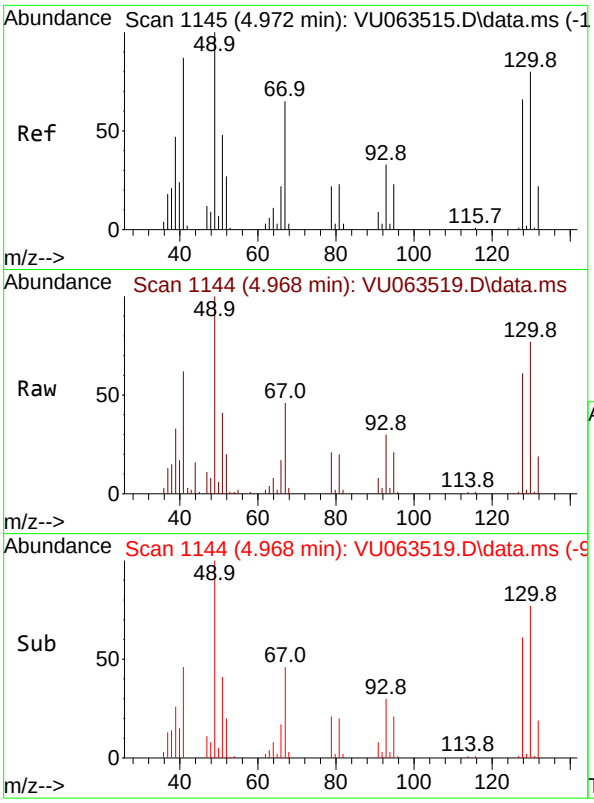


#38
1,2-Dichloropropane
Concen: 11.175 ug/l
RT: 6.779 min Scan# 1707
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 63 Resp: 84731

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.6	36.8

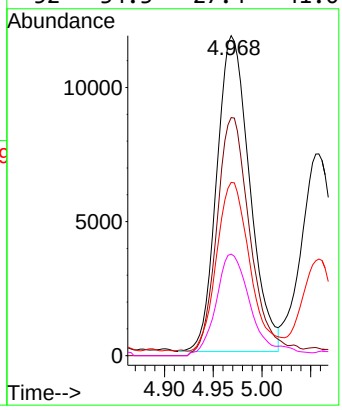




#39
Methacrylonitrile
Concen: 9.213 ug/l
RT: 4.968 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 41 Resp: 2764

Ion	Ratio	Lower	Upper
41	100		
67	77.2	62.7	94.1
39	54.1	43.1	64.7
52	34.3	27.4	41.0



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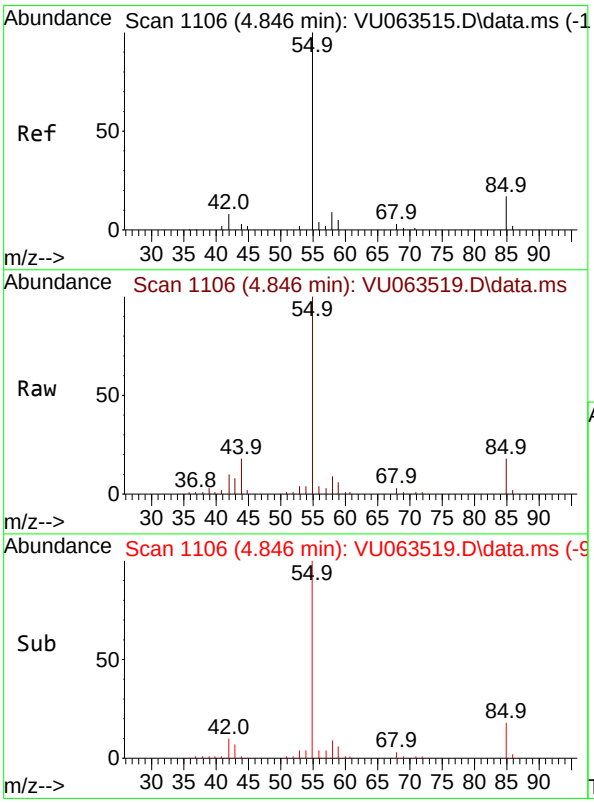
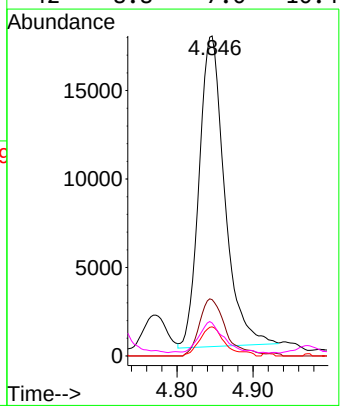
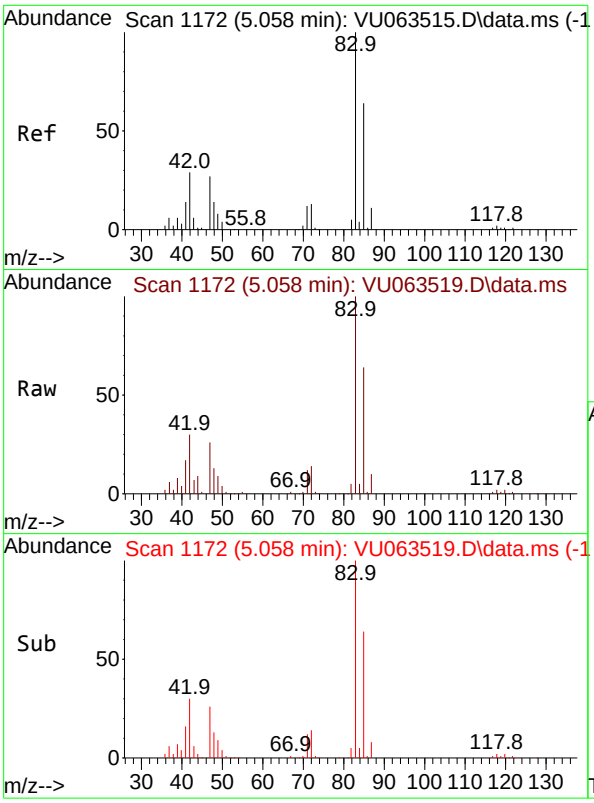


#40
Methyl acrylate
Concen: 9.339 ug/l
RT: 4.846 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 55 Resp: 40963

Ion	Ratio	Lower	Upper
55	100		
85	19.0	12.8	19.2
58	9.3	7.0	10.4
42	8.8	7.0	10.4





#41
Tetrahydrofuran
Concen: 17.936 ug/l
RT: 5.058 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 42 Resp: 2831

Ion	Ratio	Lower	Upper
42	100		
72	49.2	39.2	58.8
71	42.7	34.8	52.2

Instrument :
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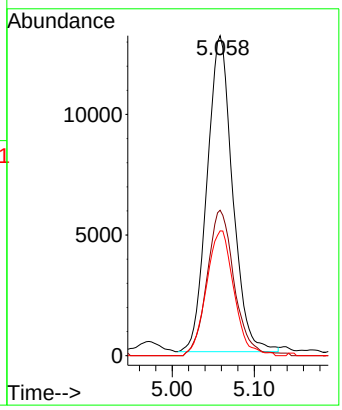
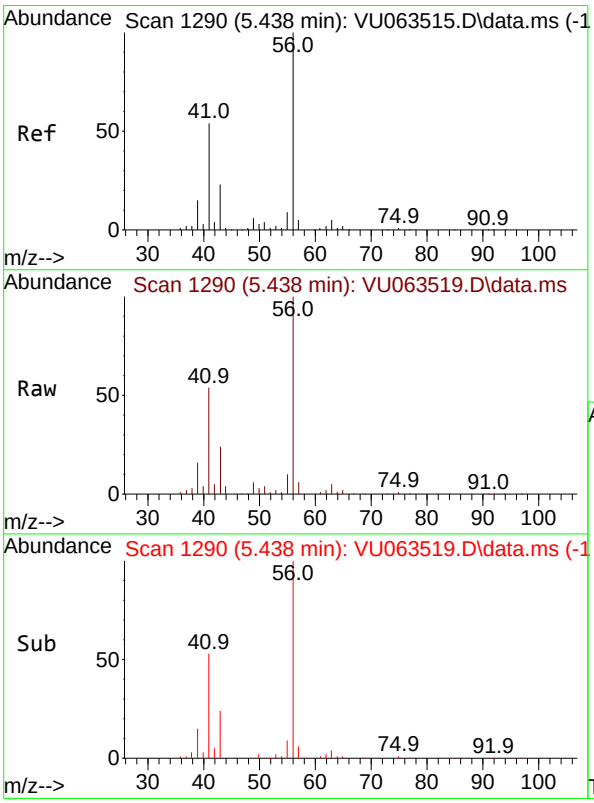
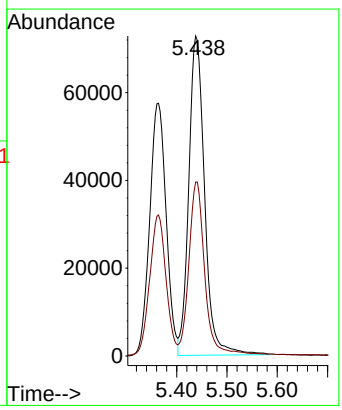


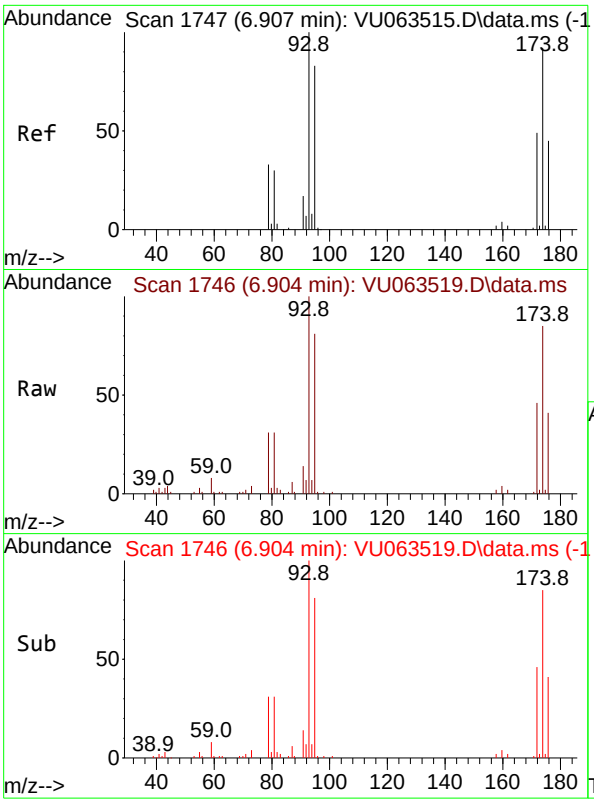


#42
1-Chlorobutane
Concen: 9.953 ug/l
RT: 5.438 min Scan# 1290
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 56 Resp: 159543

Ion	Ratio	Lower	Upper
56	100		
41	53.3	26.7	80.0

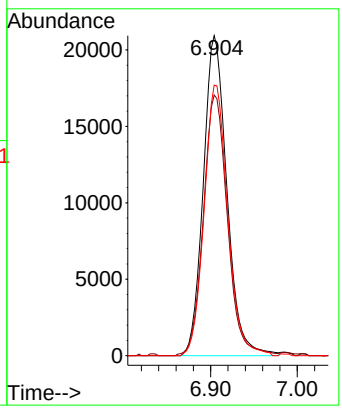




#43
Dibromomethane
Concen: 10.067 ug/l
RT: 6.904 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 93 Resp: 3954

Ion	Ratio	Lower	Upper
93	100		
95	83.3	67.9	101.9
174	84.7	74.6	111.8



Instrument :
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ClientSampleId :
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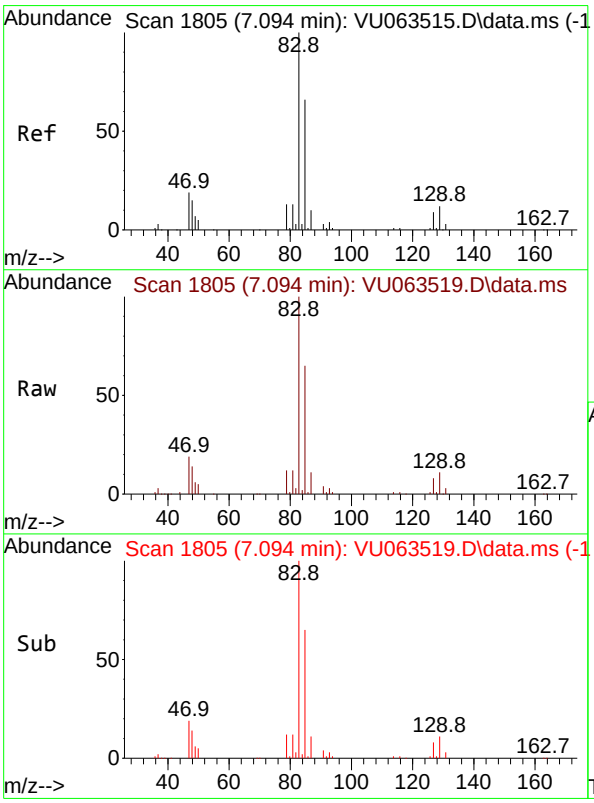
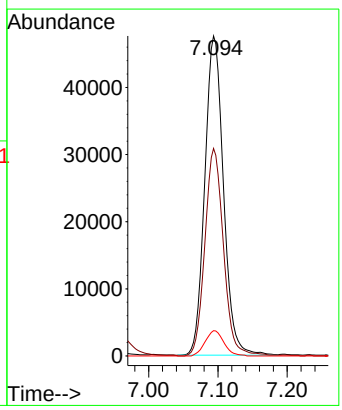
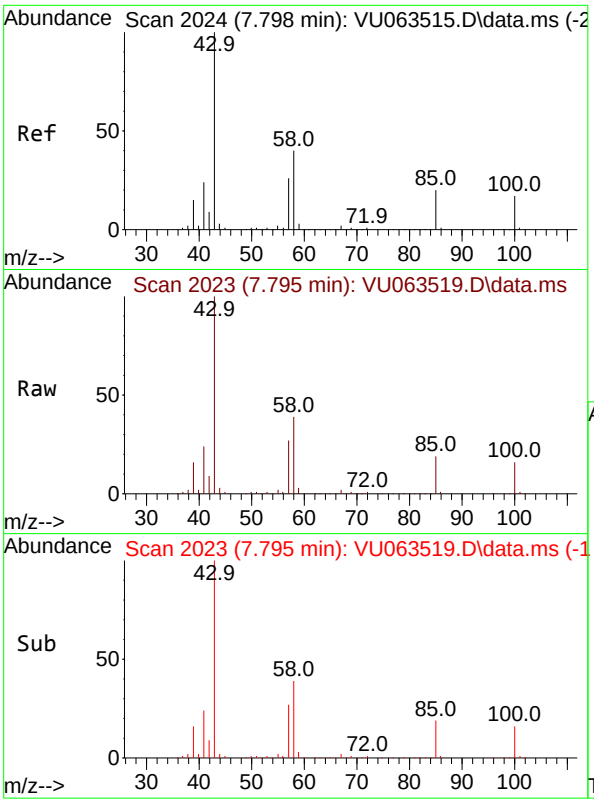


#44
Bromodichloromethane
Concen: 10.053 ug/l
RT: 7.094 min Scan# 1805
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 83 Resp: 89050

Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.7	79.1
127	7.9	8.1	12.1#

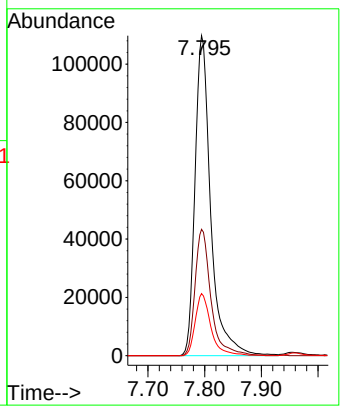




#45
4-Methyl-2-Pentanone
Concen: 52.266 ug/l
RT: 7.795 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 43 Resp: 21158

Ion	Ratio	Lower	Upper
43	100		
58	39.9	20.0	60.0
85	19.4	15.4	23.0



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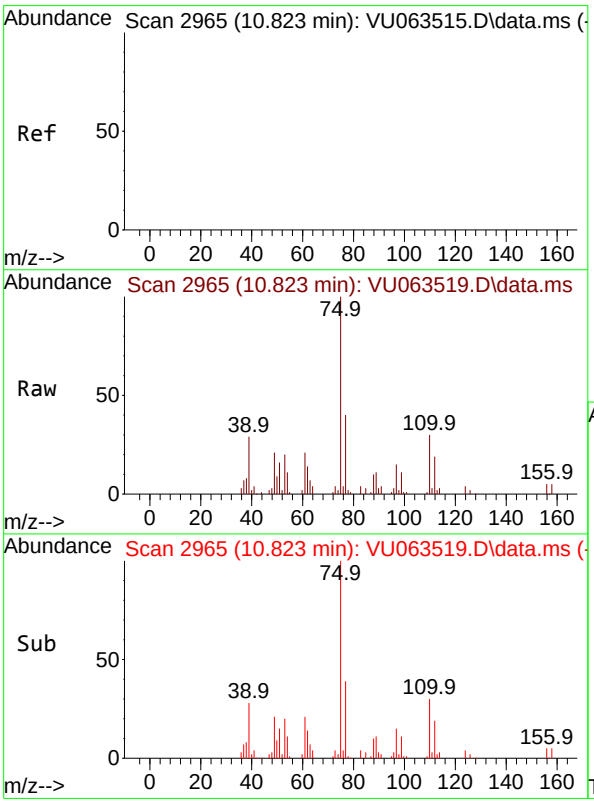
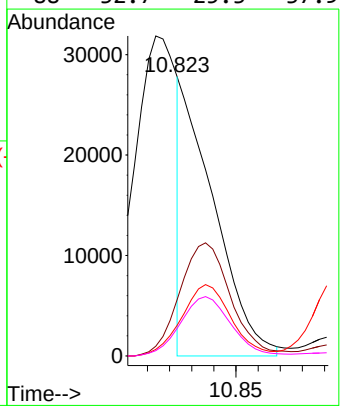
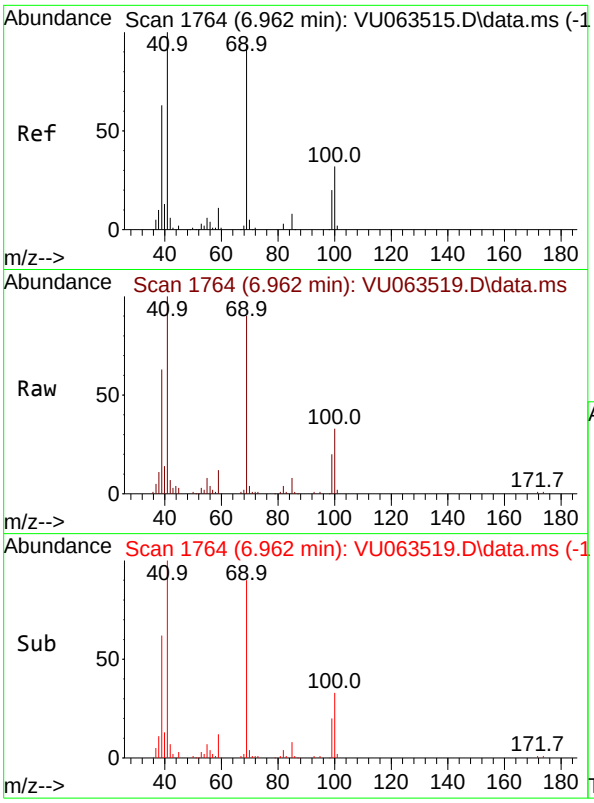


#46
t-1,4-Dichloro-2-butene
Concen: 18.890 ug/l m
RT: 10.823 min Scan# 2965
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 75 Resp: 28706

Ion	Ratio	Lower	Upper
75	100		
53	63.1	48.4	72.6
89	38.6	30.6	45.8
88	32.7	25.3	37.9

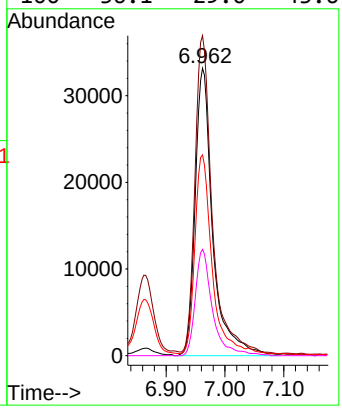




#47
Methyl methacrylate
Concen: 20.900 ug/l
RT: 6.962 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 69 Resp: 6894

Ion	Ratio	Lower	Upper
69	100		
41	109.1	0.0	224.0
39	66.2	55.3	82.9
100	36.1	29.0	43.6



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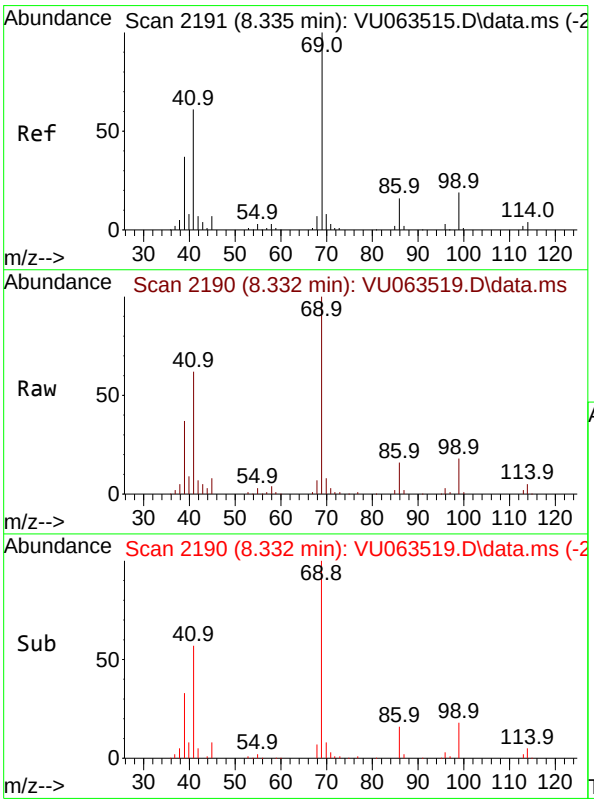
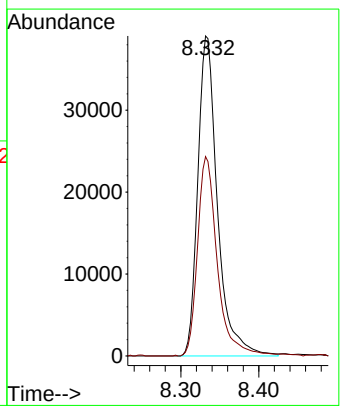
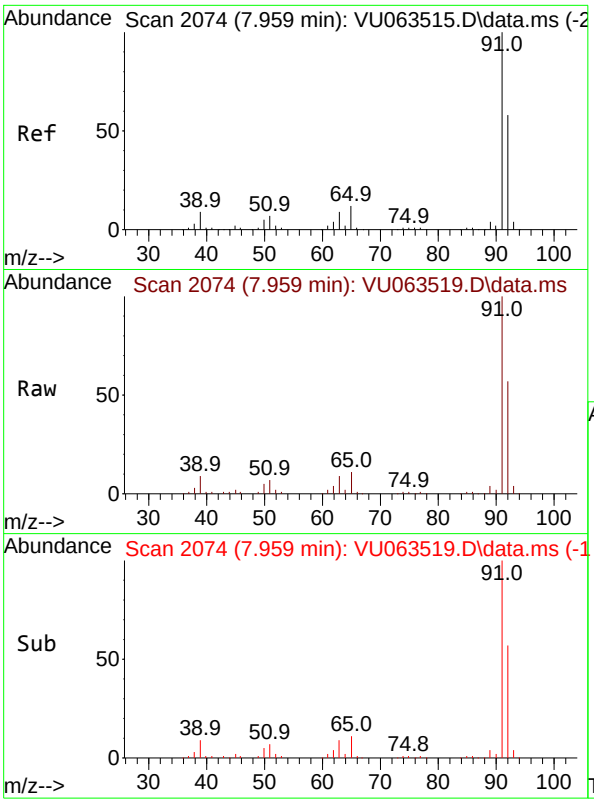


#48
Ethyl methacrylate
Concen: 10.861 ug/l
RT: 8.332 min Scan# 2190
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 69 Resp: 68373

Ion	Ratio	Lower	Upper
69	100		
41	62.8	30.8	92.4





#49
Toluene
Concen: 10.158 ug/l
RT: 7.959 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 92 Resp: 17966

Ion	Ratio	Lower	Upper
92	100		
91	176.8	140.4	210.6

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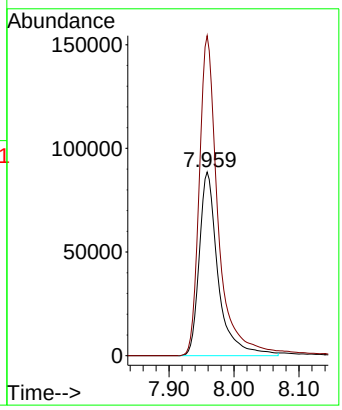
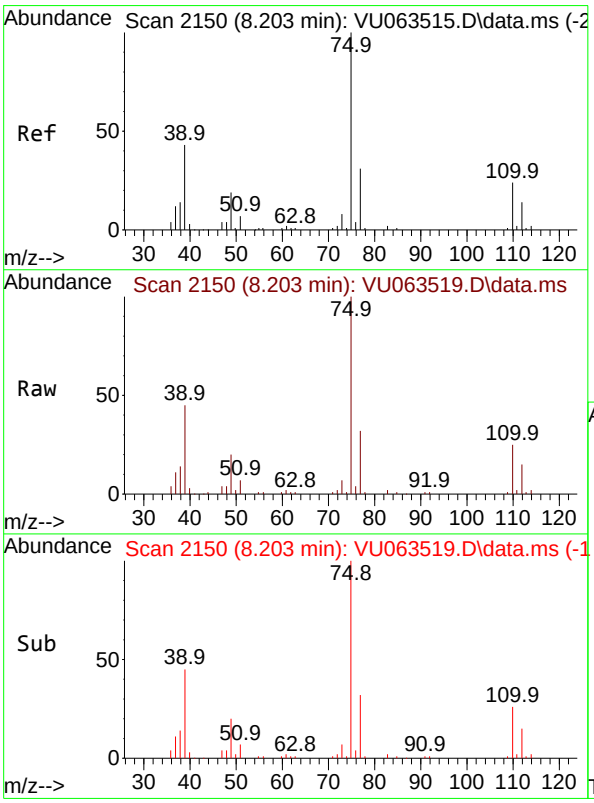
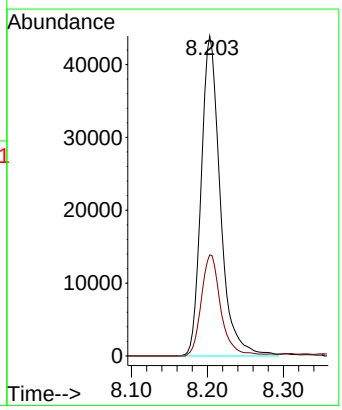


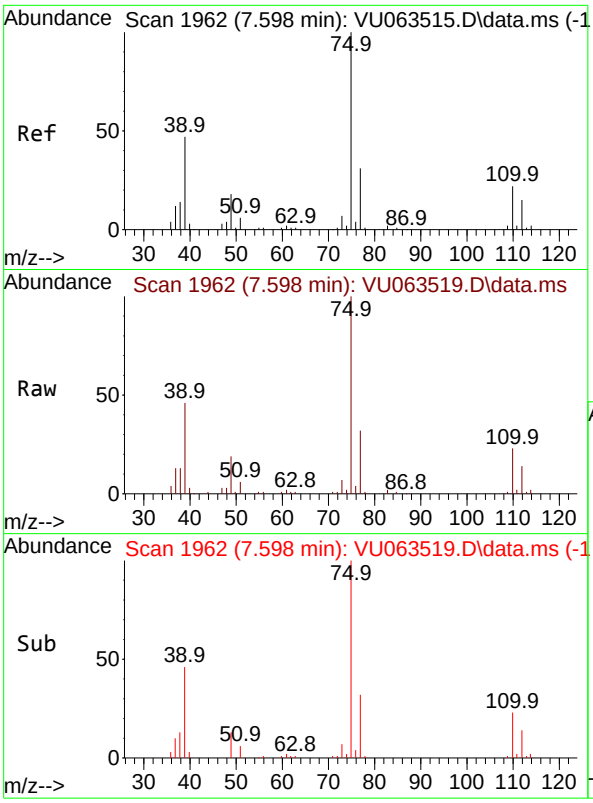


#50
t-1,3-Dichloropropene
Concen: 11.010 ug/l
RT: 8.203 min Scan# 2150
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 75 Resp: 76515

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.9	37.3

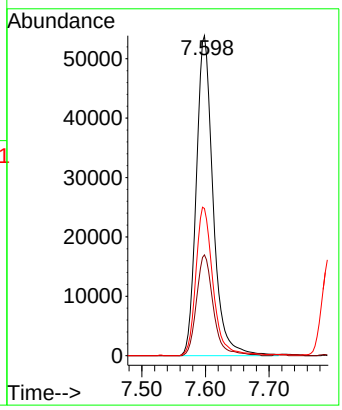




#51
cis-1,3-Dichloropropene
Concen: 10.590 ug/l
RT: 7.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 75 Resp: 9878

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.1	37.7
39	46.0	37.8	56.6



Instrument :
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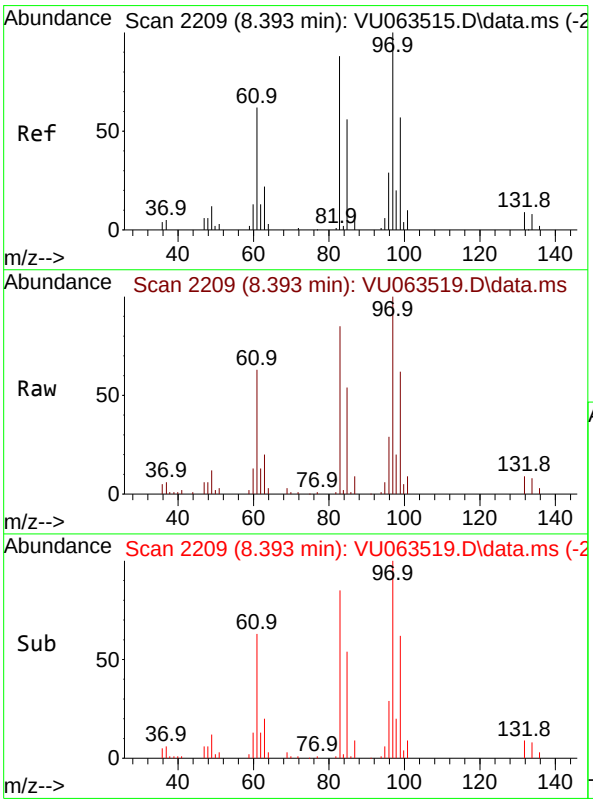
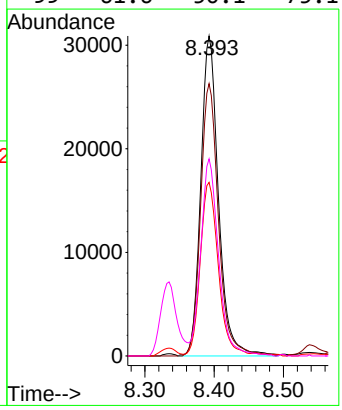
Supervised By :Semsettin Yesilyurt 07/21/2025

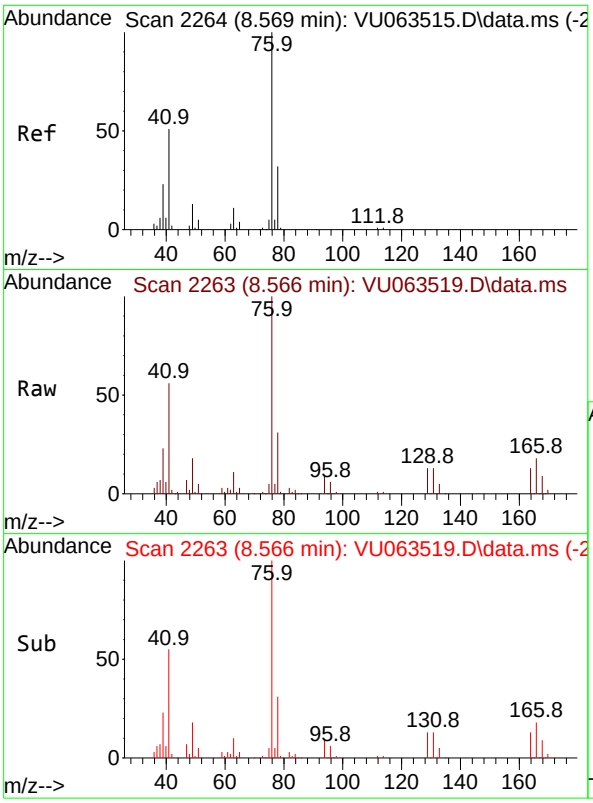


#52
1,1,2-Trichloroethane
Concen: 10.365 ug/l
RT: 8.393 min Scan# 2209
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 97 Resp: 54808

Ion	Ratio	Lower	Upper
97	100		
83	85.1	70.2	105.2
85	53.8	45.2	67.8
99	61.6	50.1	75.1

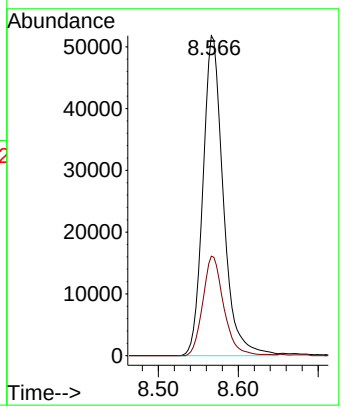




#53
1,3-Dichloropropane
Concen: 10.044 ug/l
RT: 8.566 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 76 Resp: 9168

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.0	39.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

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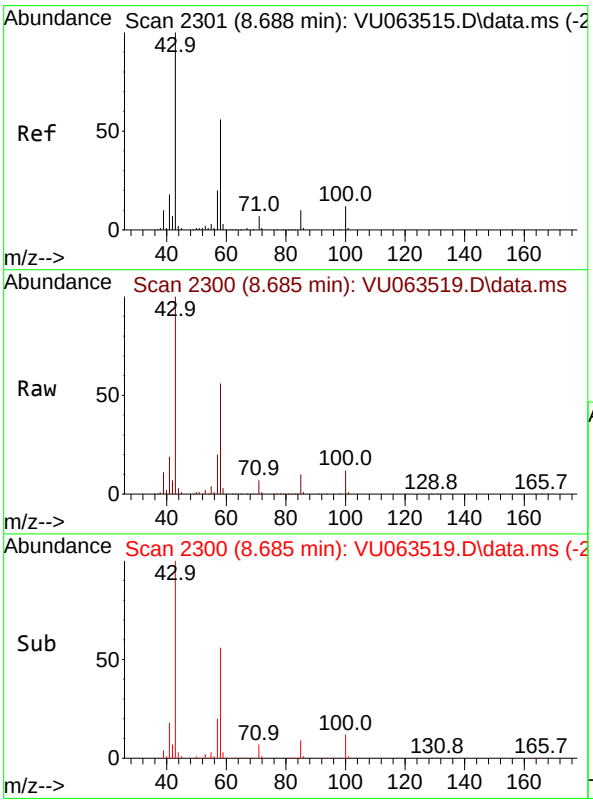
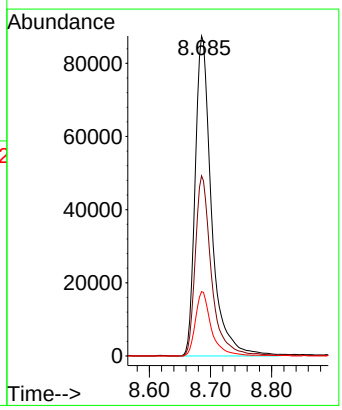
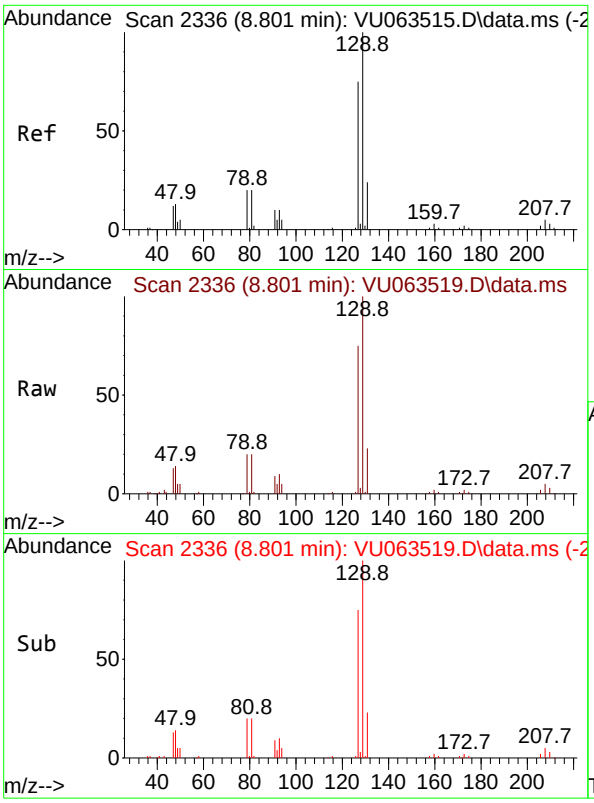


#54
2-Hexanone
Concen: 60.570 ug/l
RT: 8.685 min Scan# 2300
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 43 Resp: 162869

Ion	Ratio	Lower	Upper
43	100		
58	55.1	34.8	74.8
57	19.4	0.0	39.5

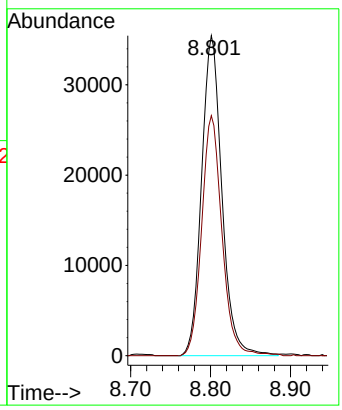




#55
Dibromochloromethane
Concen: 11.250 ug/l
RT: 8.801 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:129 Resp: 6287

Ion	Ratio	Lower	Upper
129	100		
127	74.7	60.1	90.1



Instrument :
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ClientSampleId :
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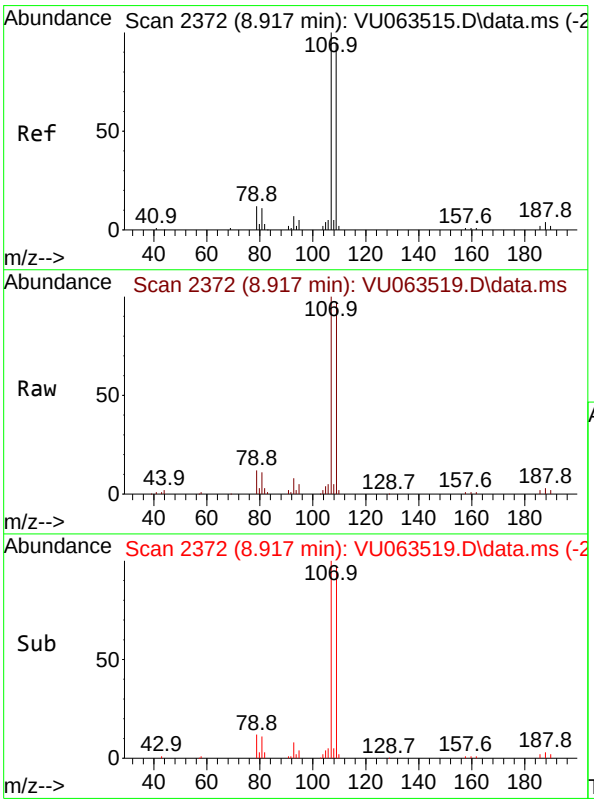
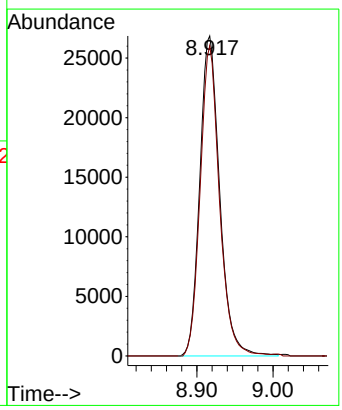
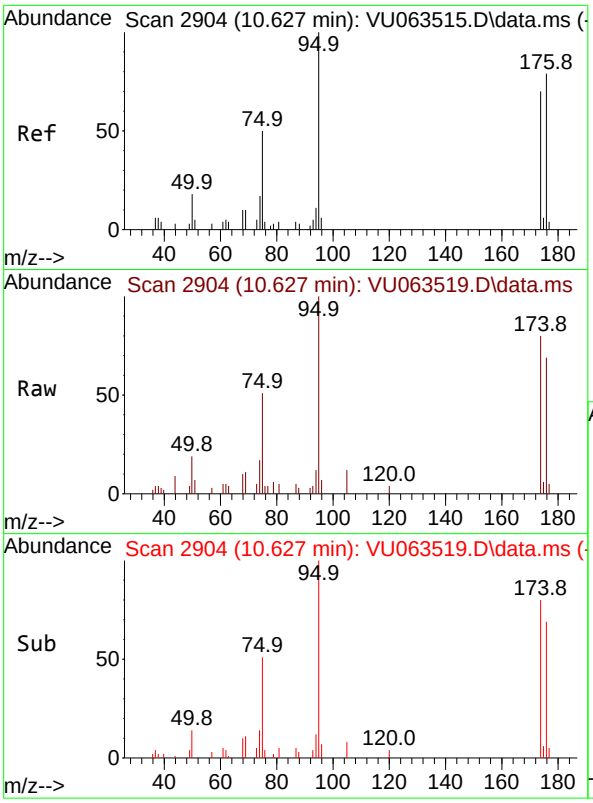


#56
1,2-Dibromoethane
Concen: 10.326 ug/l
RT: 8.917 min Scan# 2372
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:107 Resp: 48870

Ion	Ratio	Lower	Upper
107	100		
109	93.8	0.0	186.4

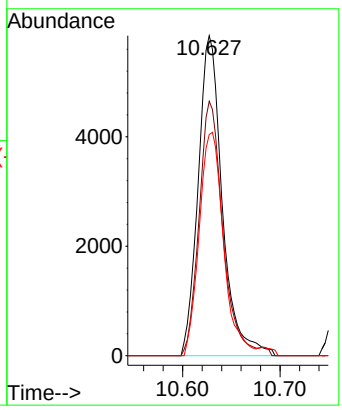




#57
4-Bromofluorobenzene
Concen: 0.965 ug/l
RT: 10.627 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 95 Resp: 1005

Ion	Ratio	Lower	Upper
95	100		
174	77.8	59.8	89.8
176	70.5	61.8	92.8



Instrument :
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ClientSampleId :
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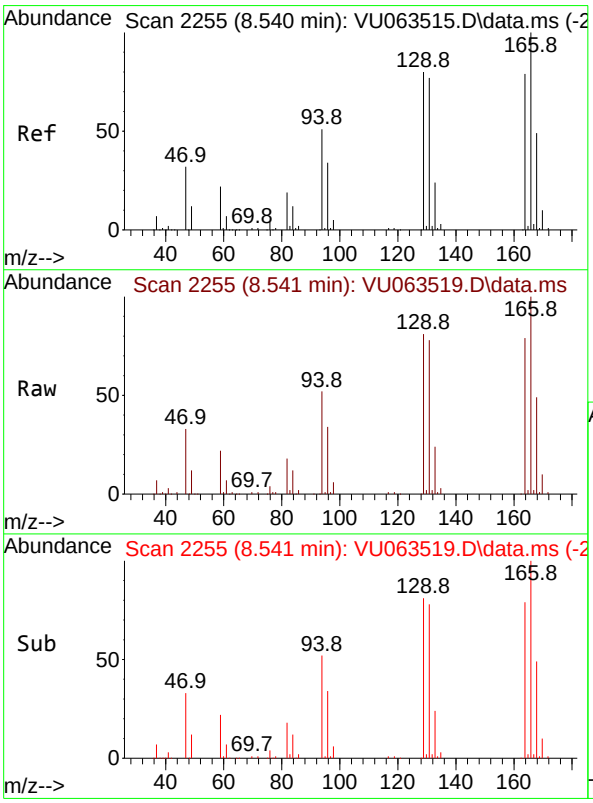
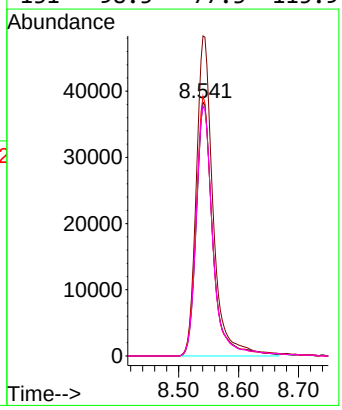
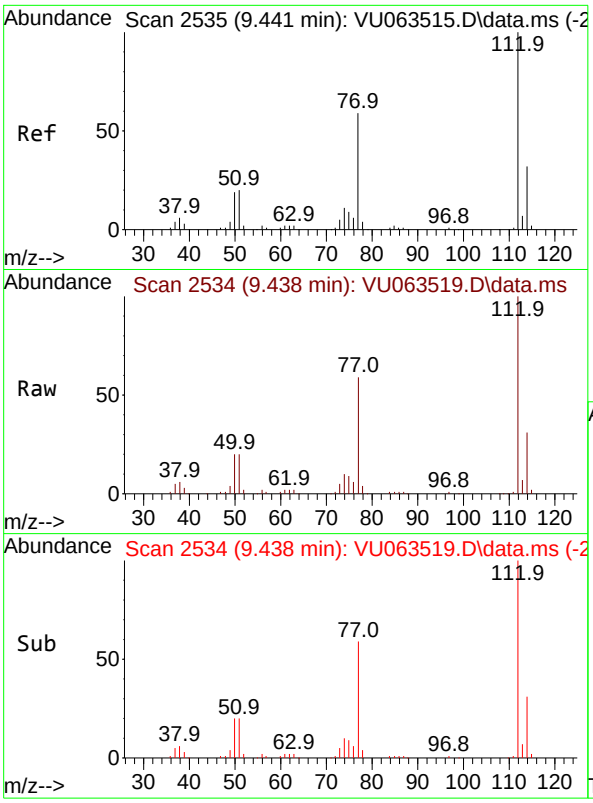


#58
Tetrachloroethene
Concen: 9.712 ug/l
RT: 8.541 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:164 Resp: 73468

Ion	Ratio	Lower	Upper
164	100		
166	126.2	100.7	151.1
129	102.5	80.6	120.8
131	98.5	77.3	115.9

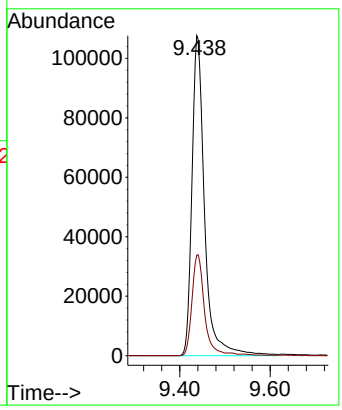




#59
Chlorobenzene
Concen: 10.255 ug/l
RT: 9.438 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:112 Resp: 20833

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.4	38.2



Instrument :
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ClientSampleId :
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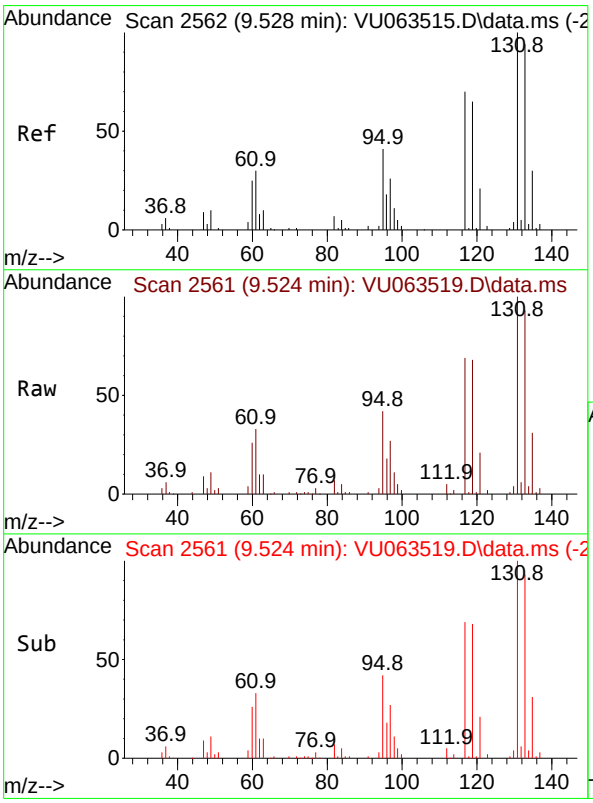
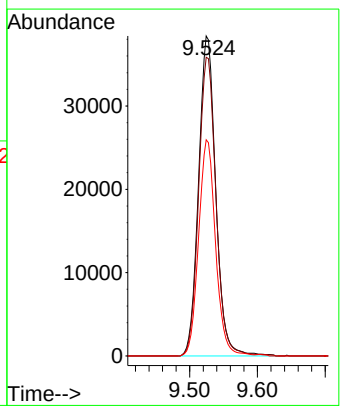
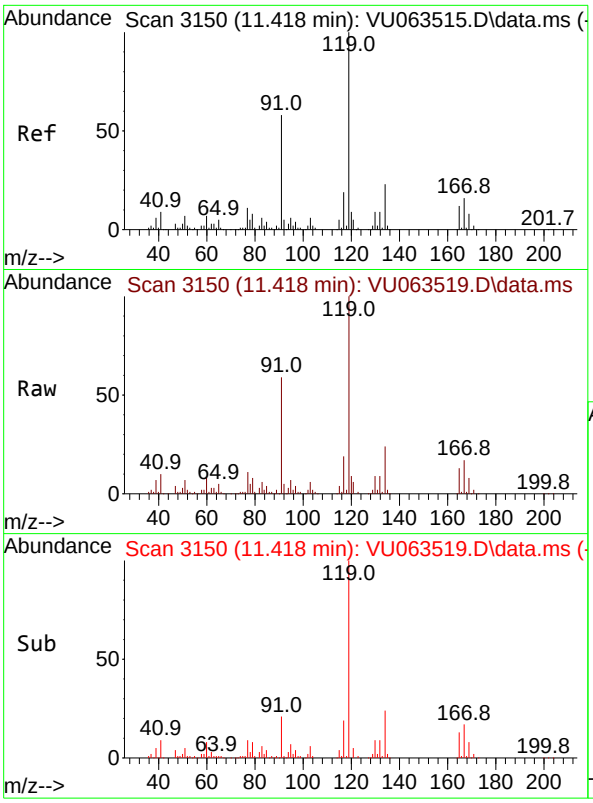


#60
1,1,1,2-Tetrachloroethane
Concen: 10.370 ug/l
RT: 9.524 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:131 Resp: 67746

Ion	Ratio	Lower	Upper
131	100		
133	94.1	74.7	112.1
119	66.7	53.0	79.4





#61
Pentachloroethane
Concen: 10.774 ug/l
RT: 11.418 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:117 Resp: 4973

Ion	Ratio	Lower	Upper
117	100		
167	81.7	65.0	97.6

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

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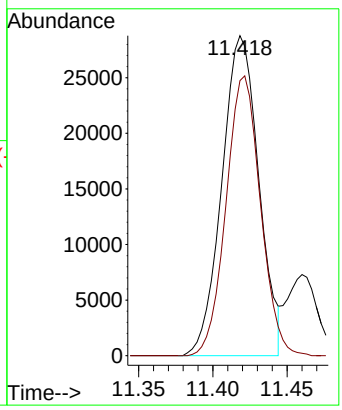
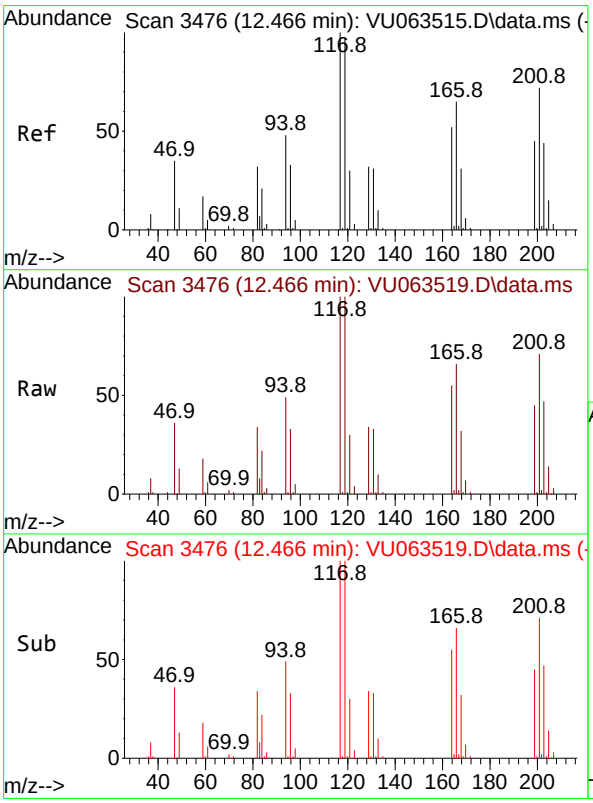
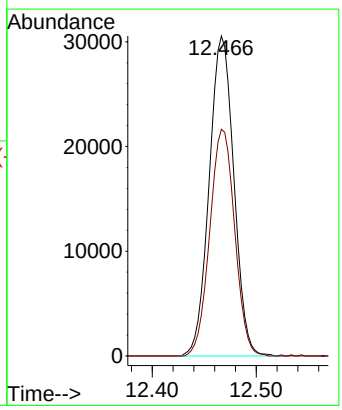


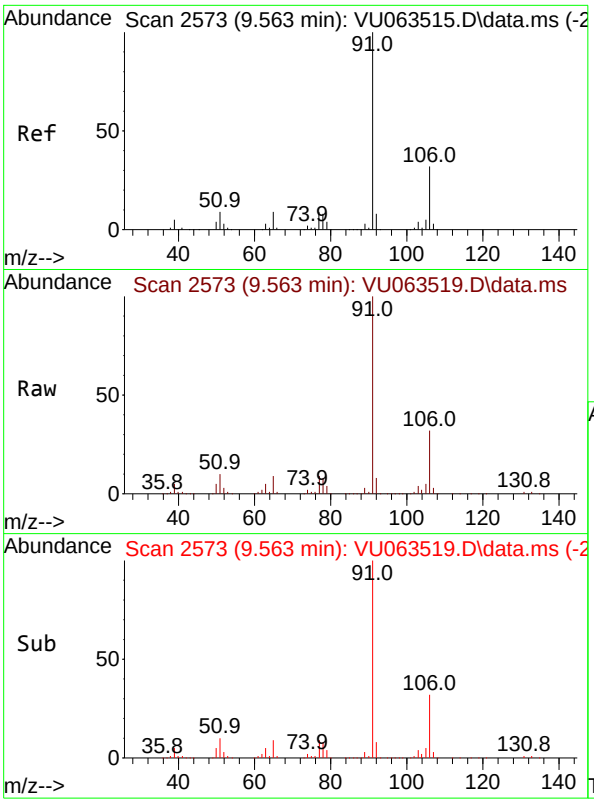


#62
Hexachloroethane
Concen: 11.016 ug/l
RT: 12.466 min Scan# 3476
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:117 Resp: 50359

Ion	Ratio	Lower	Upper
117	100		
201	71.6	57.4	86.0

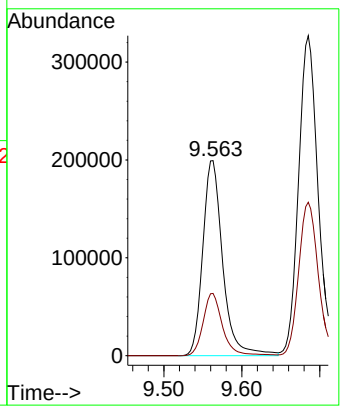




#63
Ethyl Benzene
Concen: 10.146 ug/l
RT: 9.563 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 91 Resp: 35470

Ion	Ratio	Lower	Upper
91	100		
106	31.9	25.4	38.0



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

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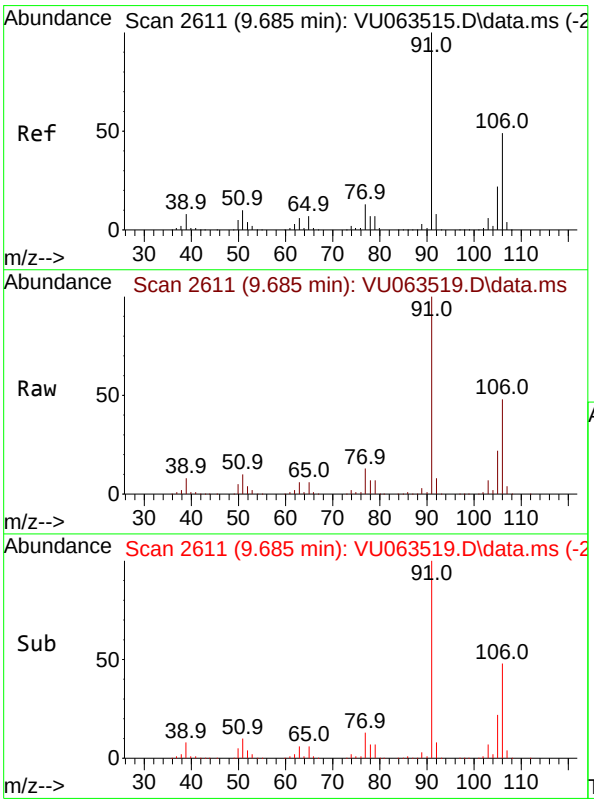
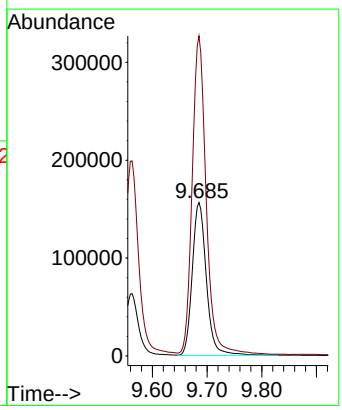
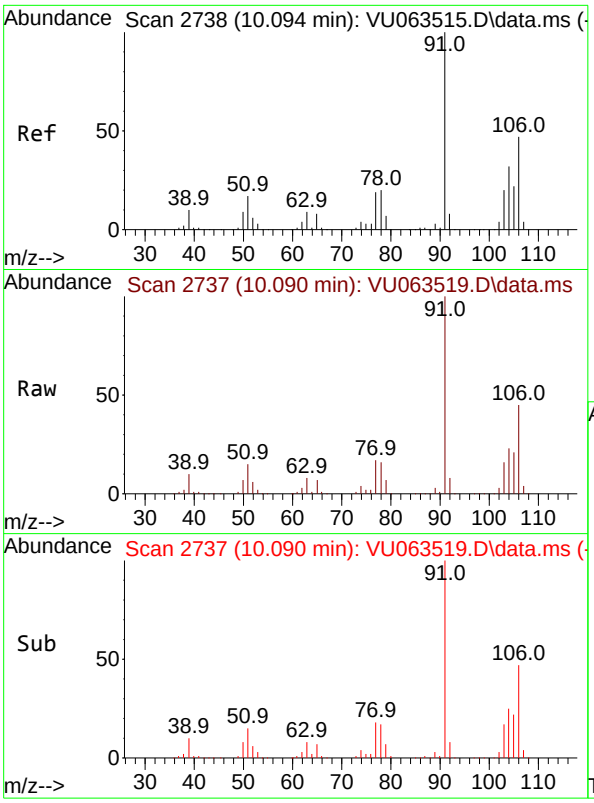


#64
m/p-Xylenes
Concen: 20.632 ug/l
RT: 9.685 min Scan# 2611
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:106 Resp: 280366

Ion	Ratio	Lower	Upper
106	100		
91	206.6	163.6	245.4

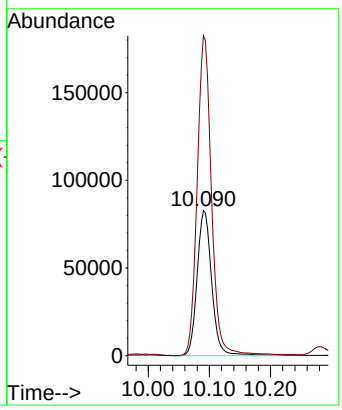




#65
o-Xylene
Concen: 10.509 ug/l
RT: 10.090 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:106 Resp: 13721

Ion	Ratio	Lower	Upper
106	100		
91	215.4	108.1	324.4



Instrument :
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ClientSampleId :
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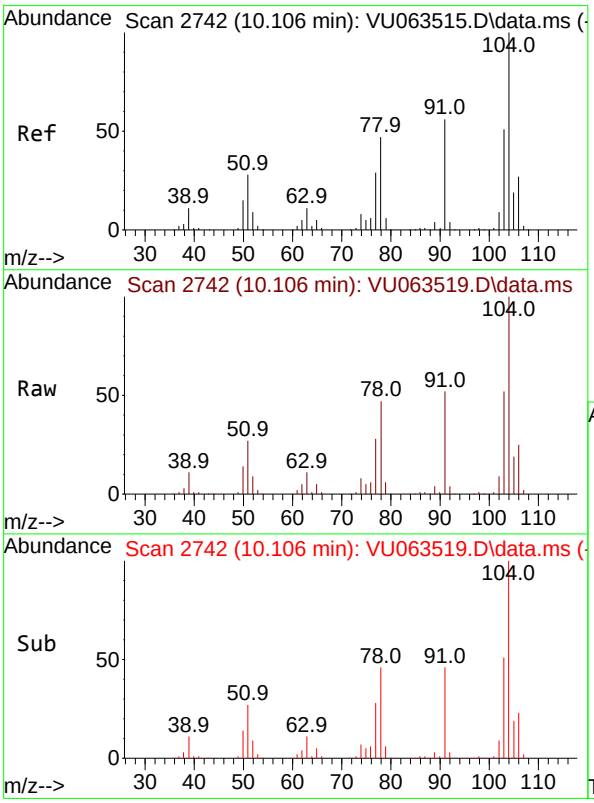
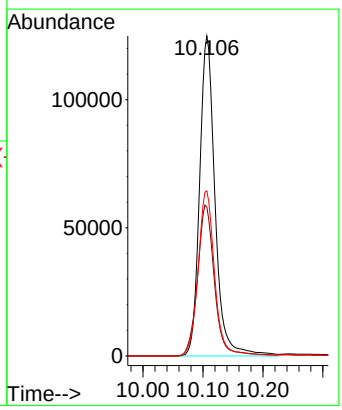
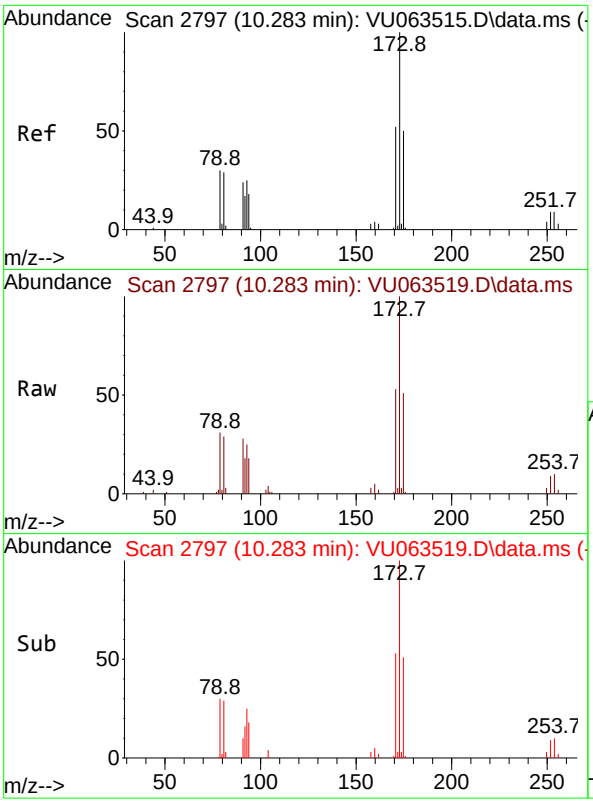


#66
Styrene
Concen: 10.792 ug/l
RT: 10.106 min Scan# 2742
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:104 Resp: 224585

Ion	Ratio	Lower	Upper
104	100		
78	51.7	41.3	61.9
103	55.1	43.6	65.4





#67
Bromoform
Concen: 11.101 ug/l
RT: 10.283 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:173 Resp: 3186

Ion	Ratio	Lower	Upper
173	100		
175	48.2	39.0	58.4
254	8.8	6.5	9.7

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

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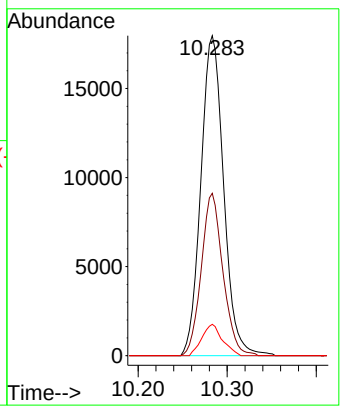
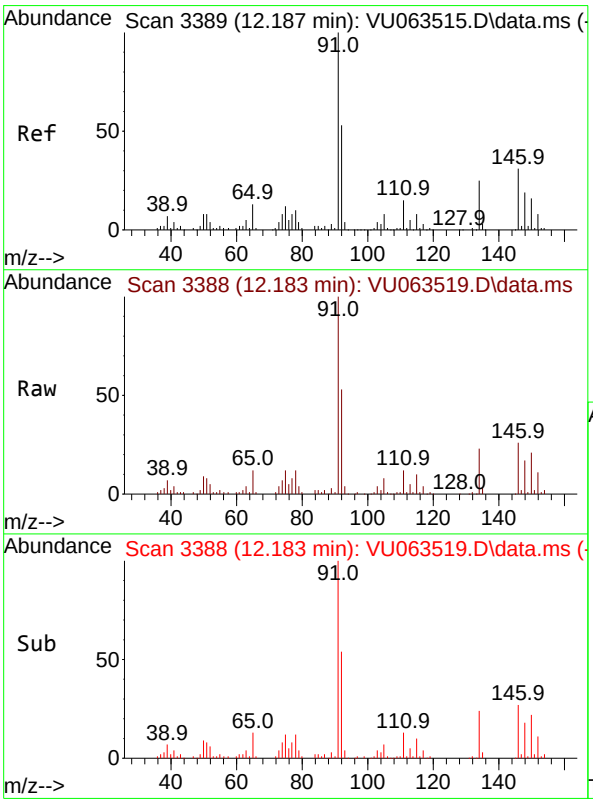
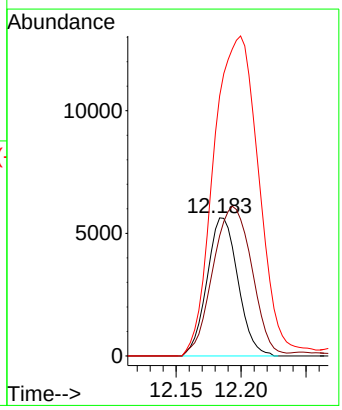


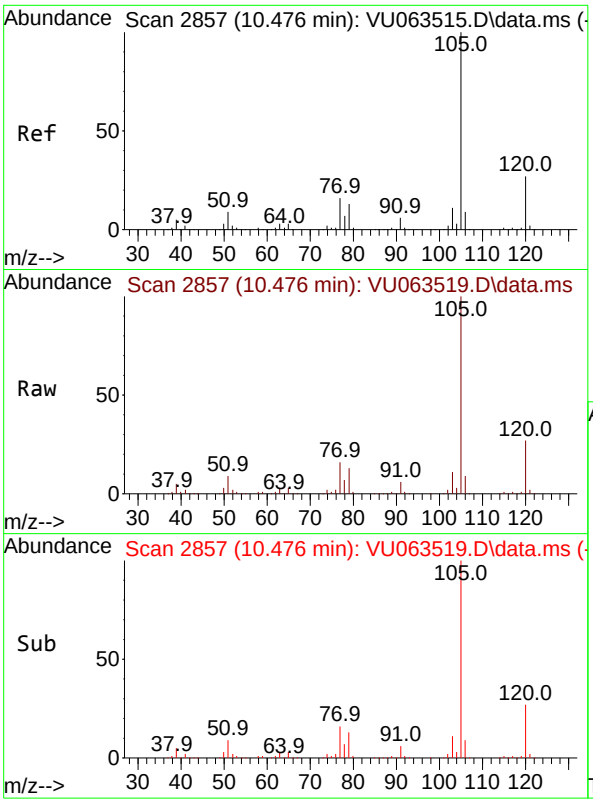


#68
1,2-Dichlorobenzene-d4
Concen: 0.968 ug/l
RT: 12.183 min Scan# 3388
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:152 Resp: 9321

Ion	Ratio	Lower	Upper
152	100		
115	136.9	0.0	262.2
150	338.6	0.0	651.2





#69
Isopropylbenzene
Concen: 10.511 ug/l
RT: 10.476 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:105 Resp: 33180

Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.2	39.5

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

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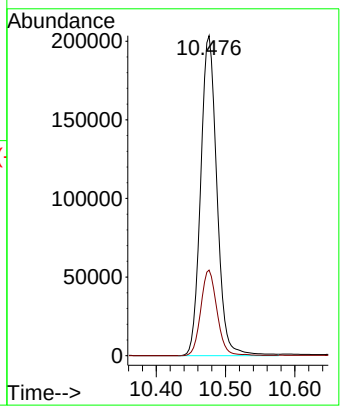
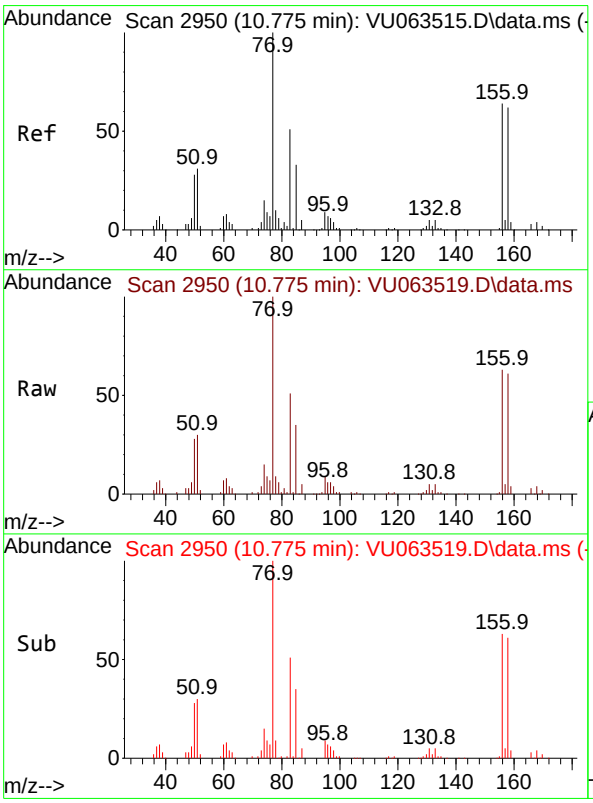
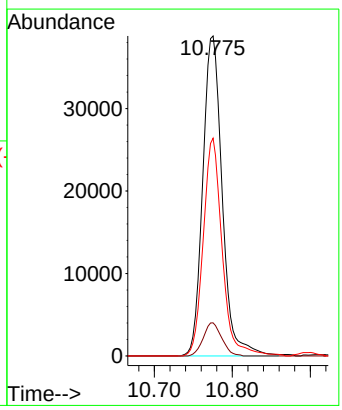


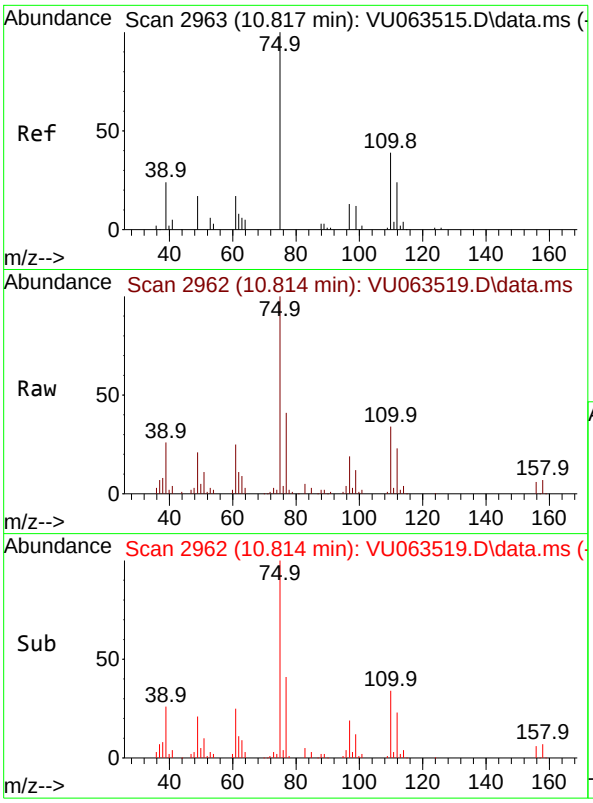


#70
1,1,2,2-Tetrachloroethane
Concen: 10.472 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 83 Resp: 67383

Ion	Ratio	Lower	Upper
83	100		
131	9.8	8.4	12.6
85	66.0	51.9	77.9

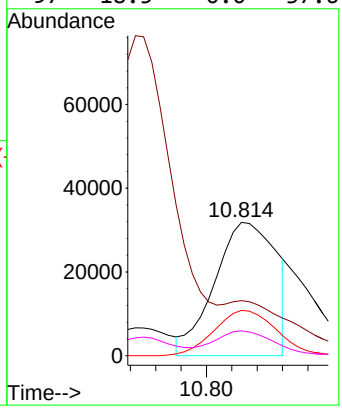




#71
1,2,3-Trichloropropane
Concen: 10.239 ug/l m
RT: 10.814 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 75 Resp: 5350

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	34.9	0.0	73.2
97	18.5	0.0	37.6



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

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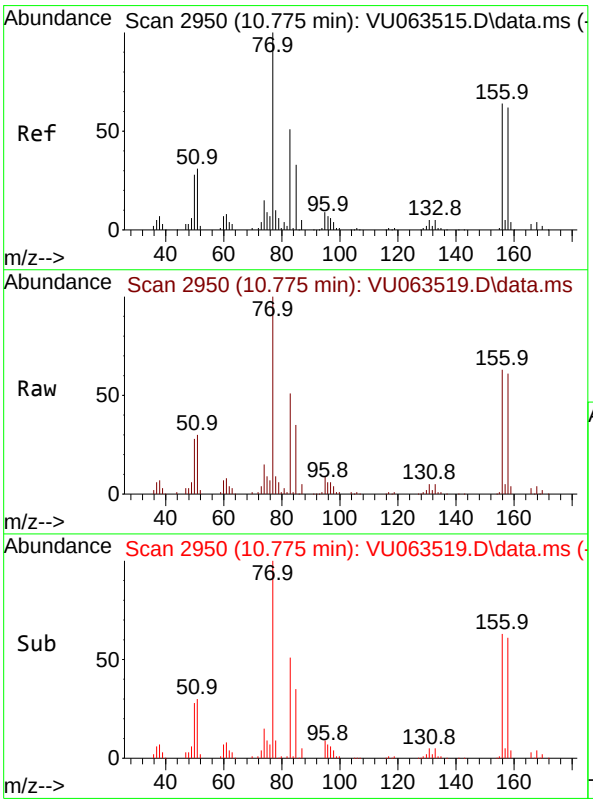
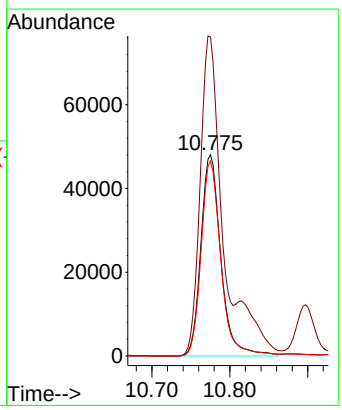
Supervised By :Semsettin Yesilyurt 07/21/2025

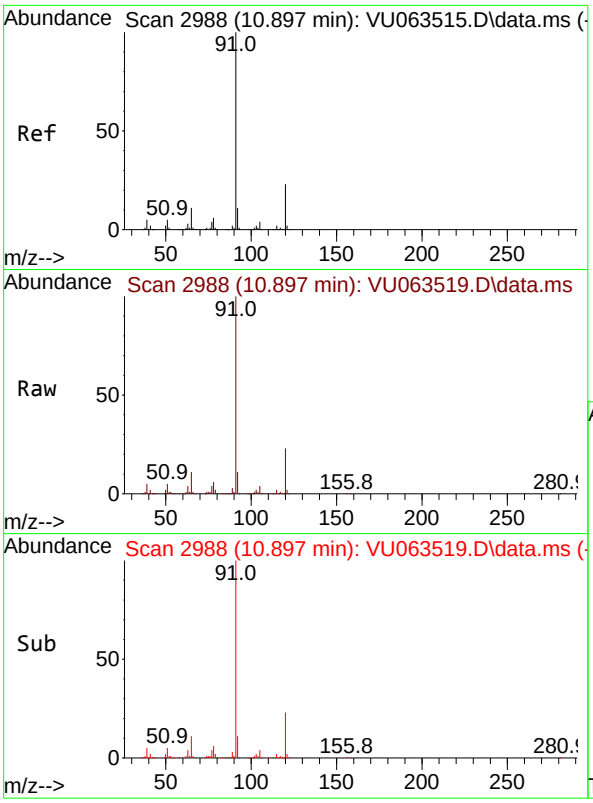


#72
Bromobenzene
Concen: 10.490 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:156 Resp: 85460

Ion	Ratio	Lower	Upper
156	100		
77	155.6	0.0	315.2
158	95.5	0.0	195.4





#73
n-propylbenzene
Concen: 10.559 ug/l
RT: 10.897 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:120 Resp: 10034

Ion	Ratio	Lower	Upper
120	100		
91	434.4	343.1	514.7

Instrument :
MSVOA_U
ClientSampleId :
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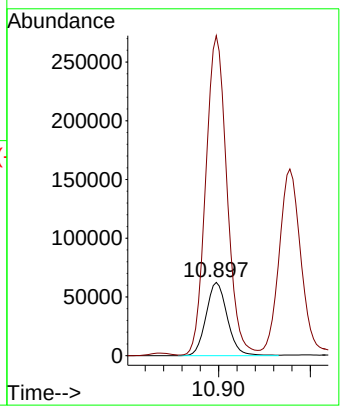
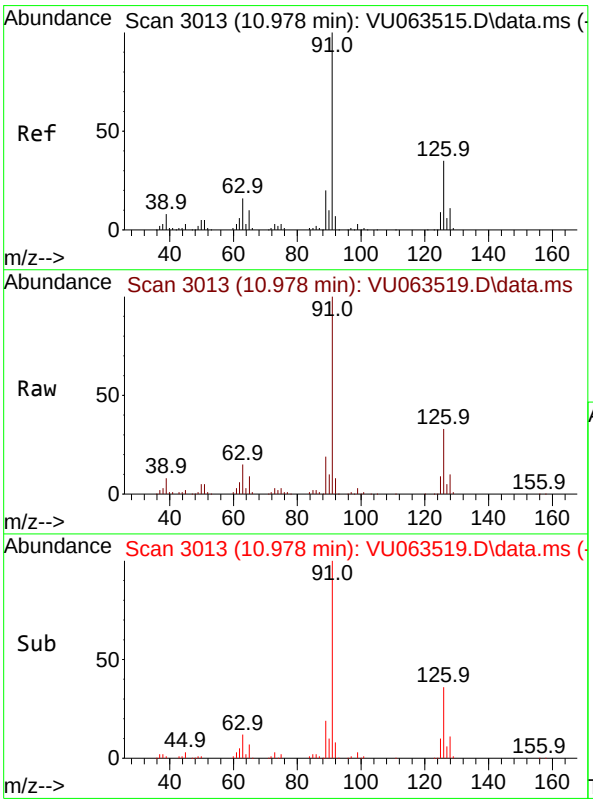
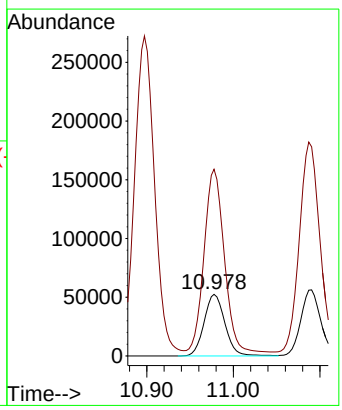


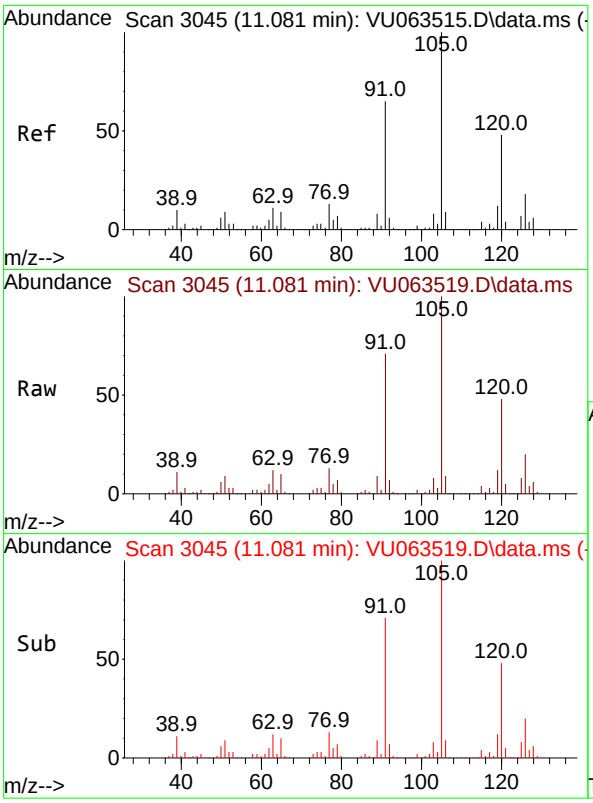


#74
2-Chlorotoluene
Concen: 10.457 ug/l
RT: 10.978 min Scan# 3013
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:126 Resp: 87826

Ion	Ratio	Lower	Upper
126	100		
91	300.6	0.0	606.0





#75
1,3,5-Trimethylbenzene
Concen: 10.596 ug/l
RT: 11.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:105 Resp: 31951

Ion	Ratio	Lower	Upper
105	100		
120	47.9	37.8	56.8

Instrument :
MSVOA_U
ClientSampleId :
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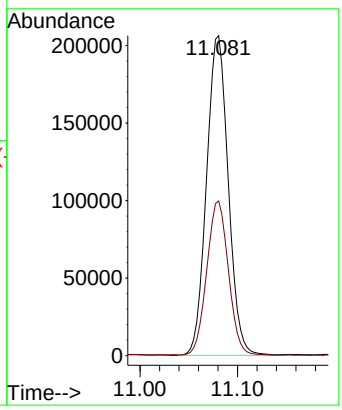
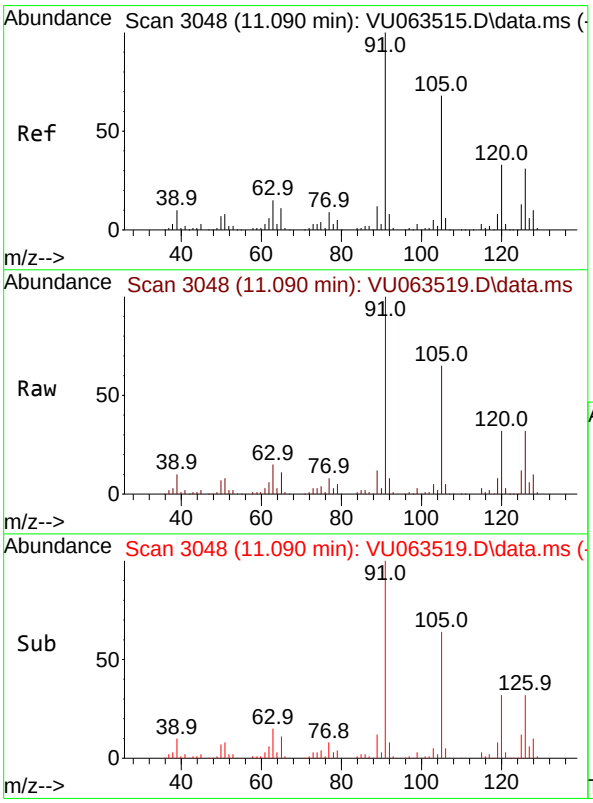
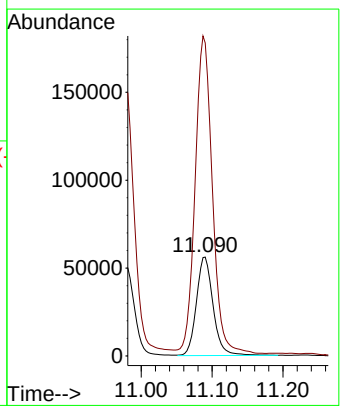


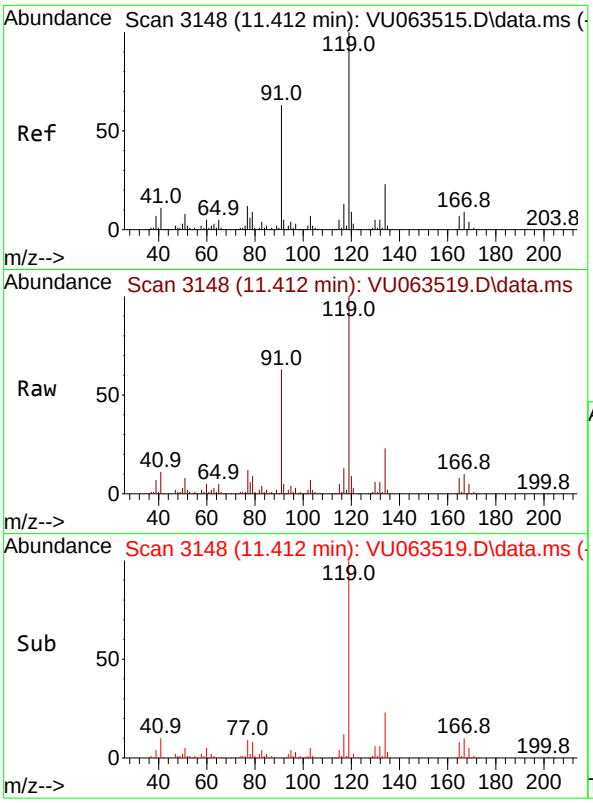


#76
4-Chlorotoluene
Concen: 10.731 ug/l
RT: 11.090 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:126 Resp: 91522

Ion	Ratio	Lower	Upper
126	100		
91	333.4	0.0	682.2

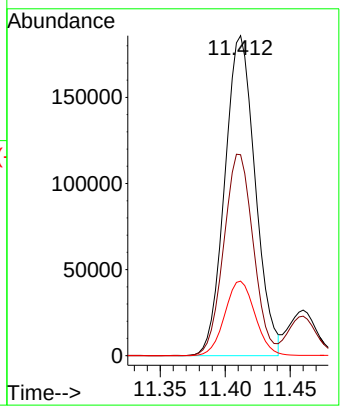




#77
tert-Butylbenzene
Concen: 10.518 ug/l
RT: 11.412 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:119 Resp: 30311

Ion	Ratio	Lower	Upper
119	100		
91	61.4	30.7	92.1
134	23.2	18.5	27.7



Instrument :
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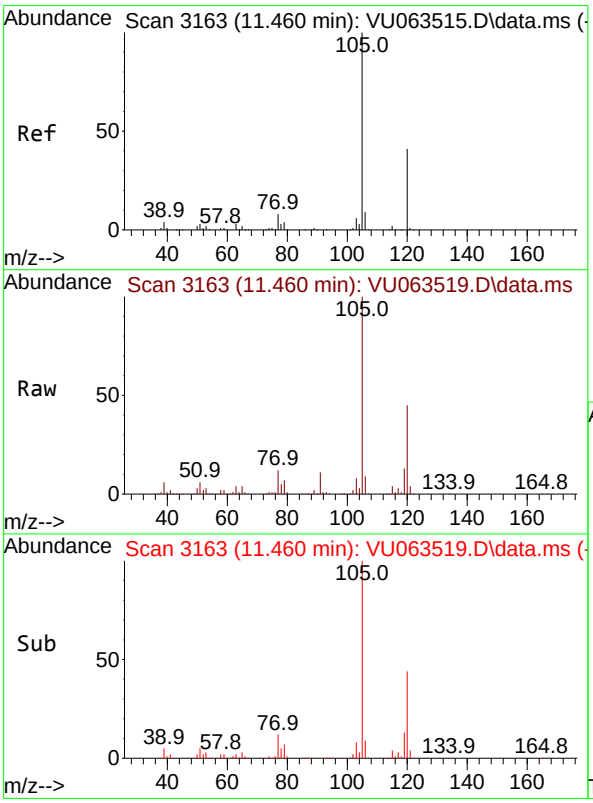
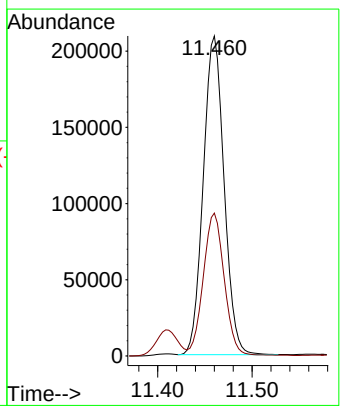
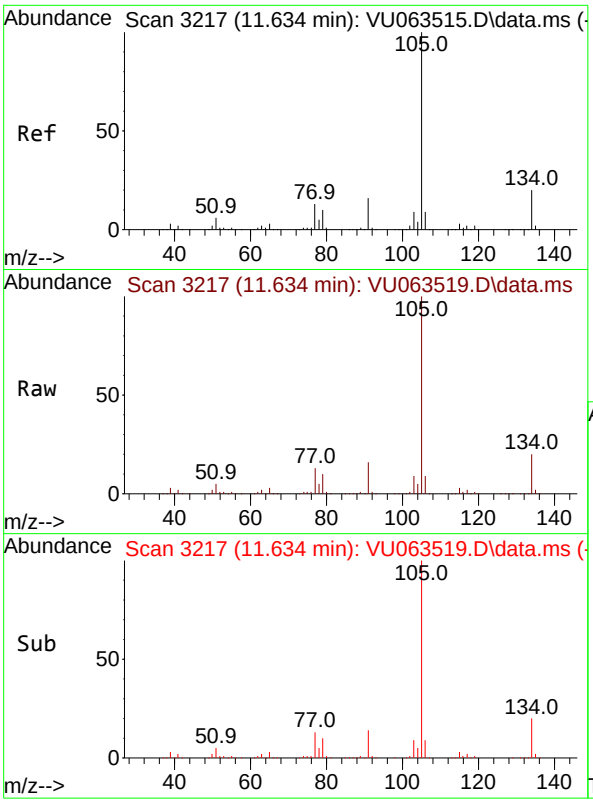


#78
1,2,4-Trimethylbenzene
Concen: 10.690 ug/l
RT: 11.460 min Scan# 3163
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:105 Resp: 319824

Ion	Ratio	Lower	Upper
105	100		
120	45.1	22.7	68.0

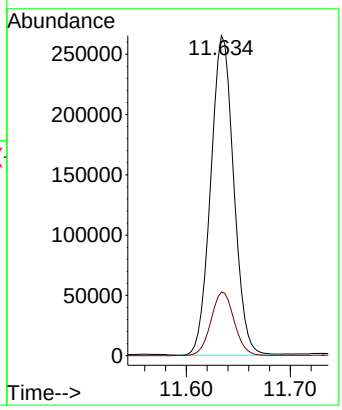




#79
sec-Butylbenzene
Concen: 10.493 ug/l
RT: 11.634 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:105 Resp: 40780

Ion	Ratio	Lower	Upper
105	100		
134	20.2	16.2	24.4



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

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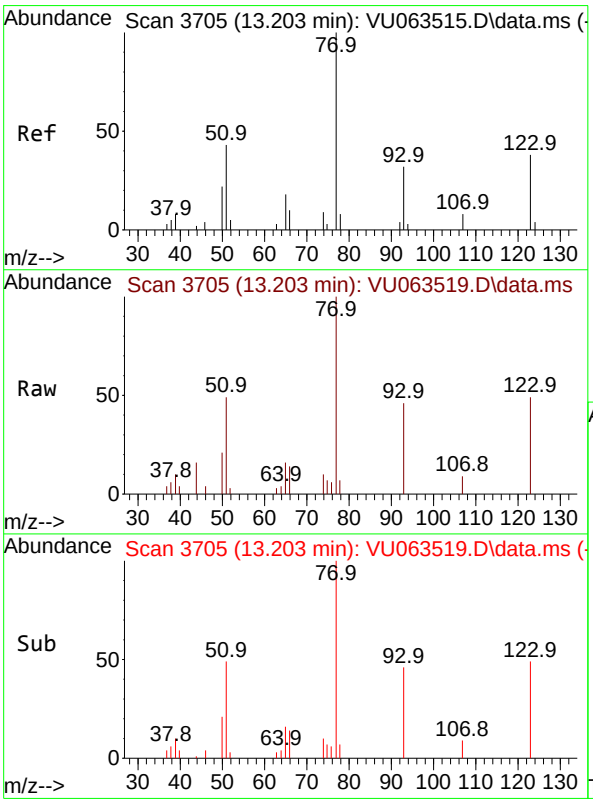
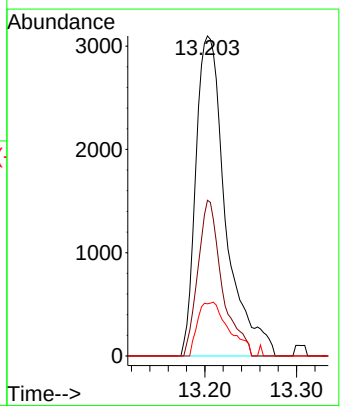
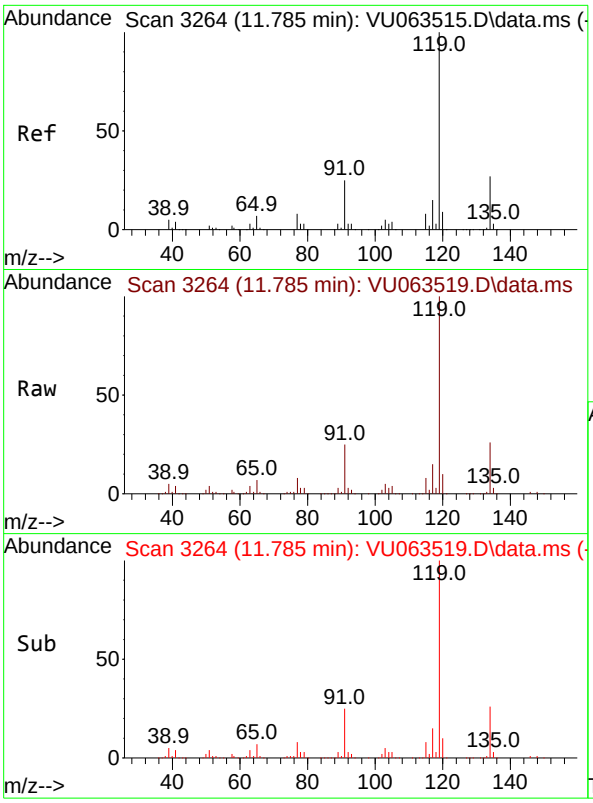


#80
Nitrobenzene
Concen: 48.829 ug/l
RT: 13.203 min Scan# 3705
Delta R.T. -0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 77 Resp: 6990

Ion	Ratio	Lower	Upper
77	100		
123	39.6	16.9	59.7
65	17.5	16.5	20.9





#81
p-Isopropyltoluene
Concen: 10.712 ug/l
RT: 11.785 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 34753

Ion	Ratio	Lower	Upper
119	100		
134	25.7	21.1	31.7
91	24.7	19.8	29.8

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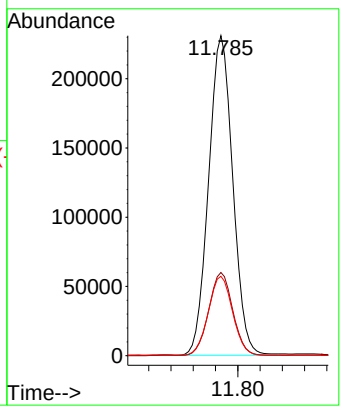
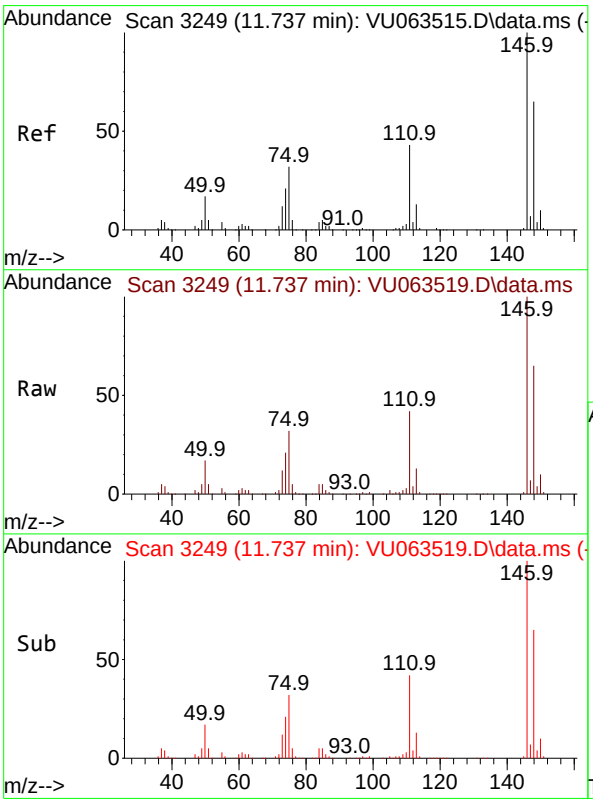
Supervised By :Semsettin Yesilyurt 07/21/2025

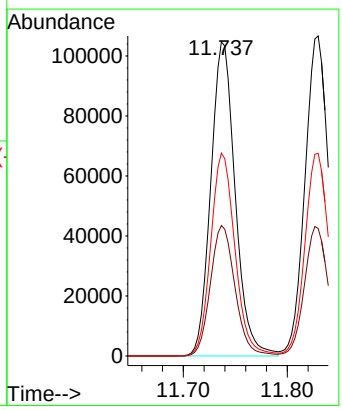


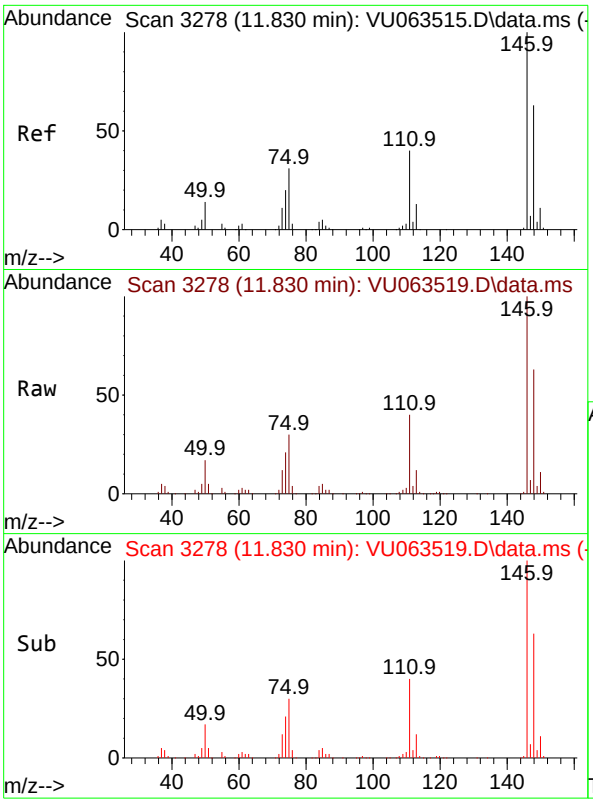


#82
1,3-Dichlorobenzene
Concen: 10.490 ug/l
RT: 11.737 min Scan# 3249
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:146 Resp: 170997

Ion	Ratio	Lower	Upper
146	100		
111	41.8	33.8	50.6
148	64.3	51.5	77.3

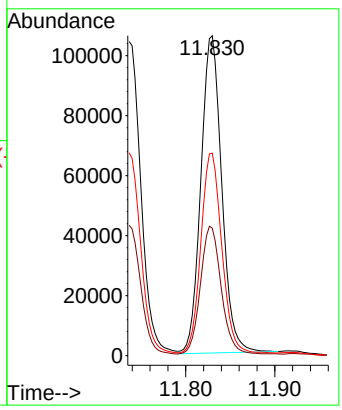




#83
1,4-Dichlorobenzene
Concen: 10.541 ug/l
RT: 11.830 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:146 Resp: 17199

Ion	Ratio	Lower	Upper
146	100		
111	40.2	32.0	48.0
148	63.7	50.2	75.2



Instrument :
MSVOA_U
ClientSampleId :
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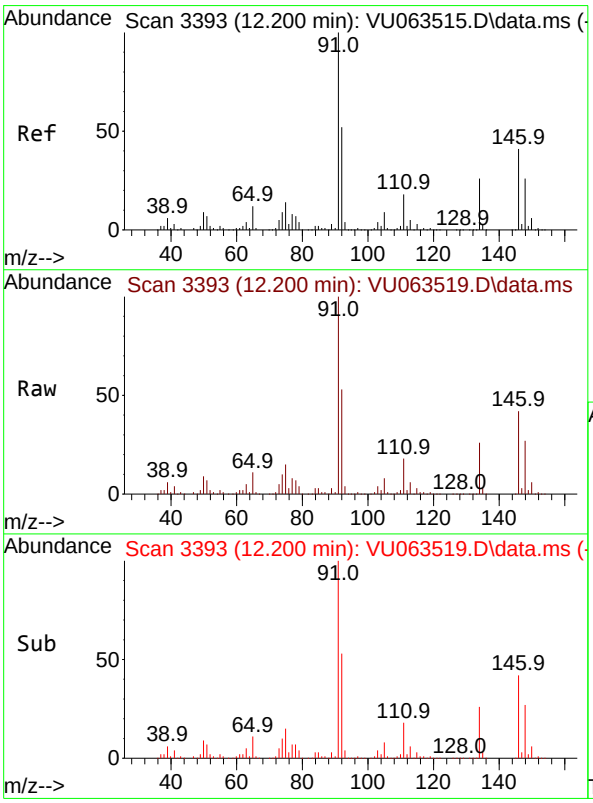
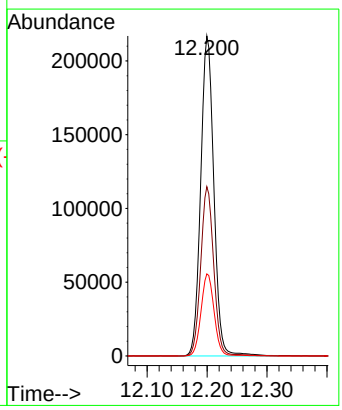
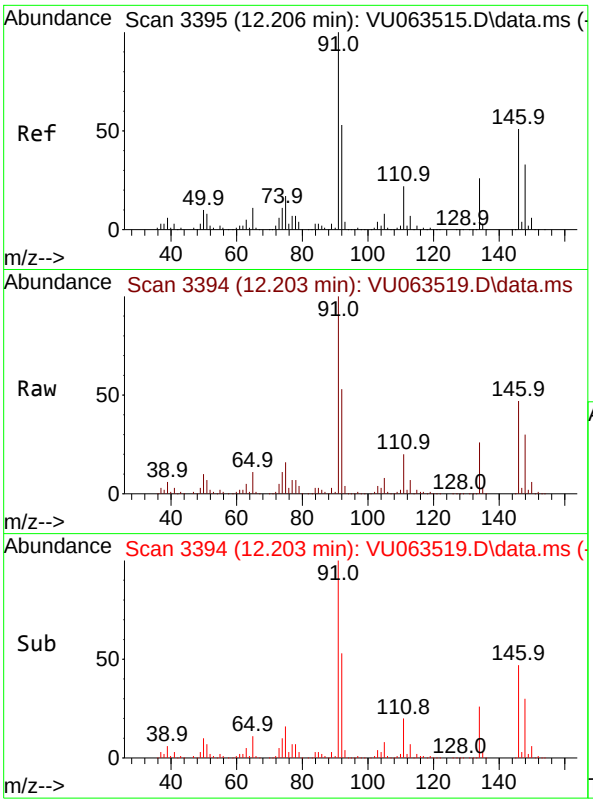


#84
n-Butylbenzene
Concen: 11.026 ug/l
RT: 12.200 min Scan# 3393
Delta R.T. -0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 91 Resp: 331771

Ion	Ratio	Lower	Upper
91	100		
92	52.0	41.5	62.3
134	25.6	20.6	30.8

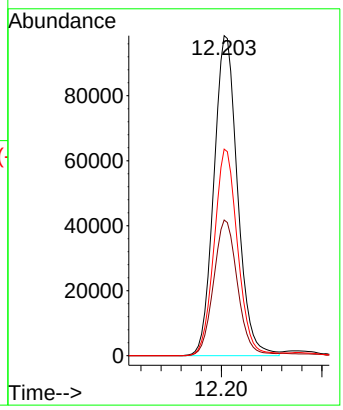




#85
1,2-Dichlorobenzene
Concen: 10.514 ug/l
RT: 12.203 min Scan# 3
Delta R.T. -0.003 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:146 Resp: 16101

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.7	65.1
148	64.1	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

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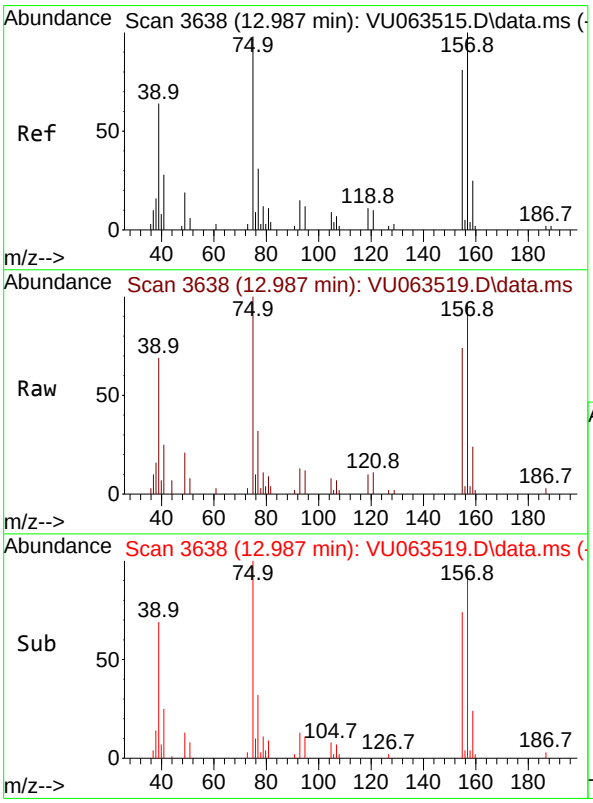
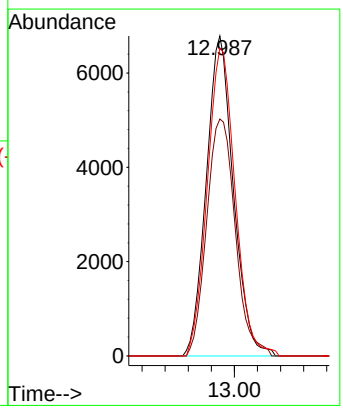
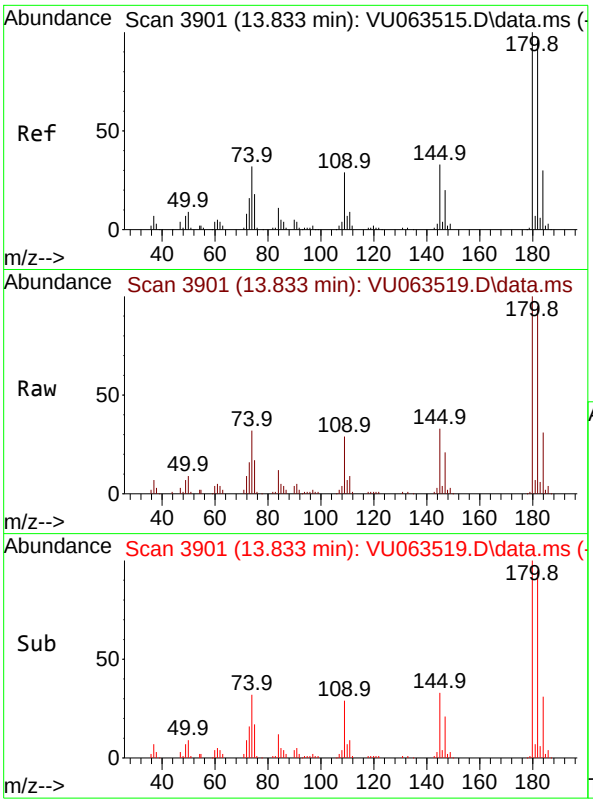


#86
1,2-Dibromo-3-Chloropropane
Concen: 10.149 ug/l
RT: 12.987 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion: 75 Resp: 11077

Ion	Ratio	Lower	Upper
75	100		
155	78.1	65.8	98.6
157	98.7	81.4	122.2





#87
1,2,4-Trichlorobenzene
Concen: 11.013 ug/l
RT: 13.833 min Scan# 3
Delta R.T. -0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

Tgt Ion:180 Resp: 10487

Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.4
145	32.4	26.2	39.2

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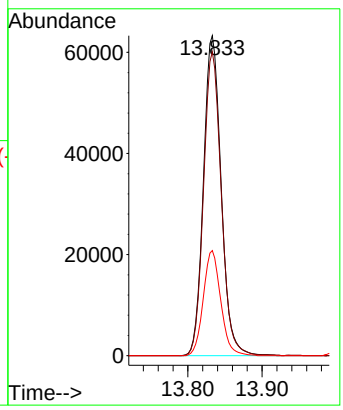
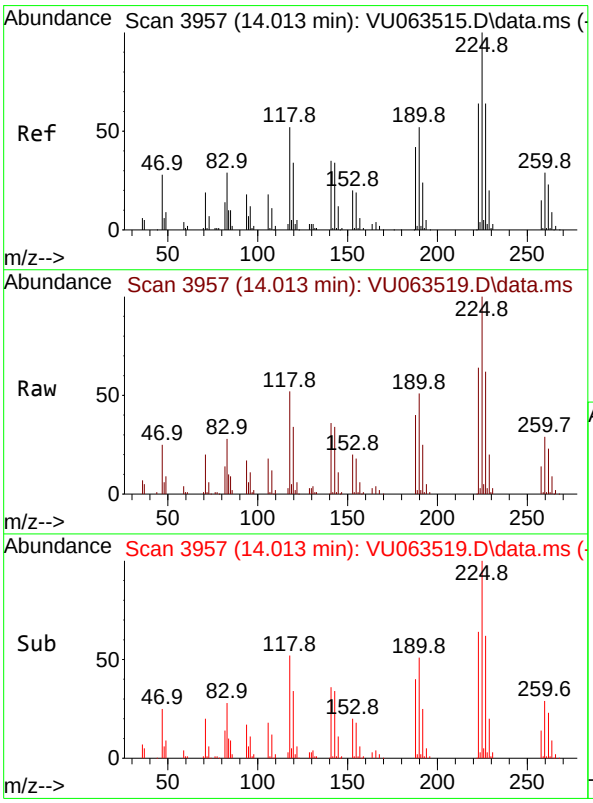
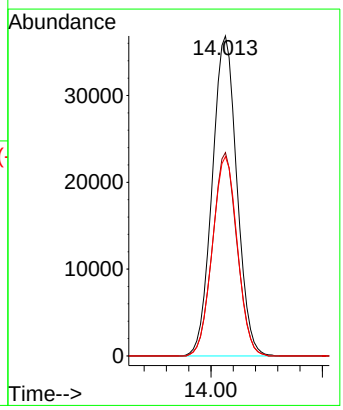


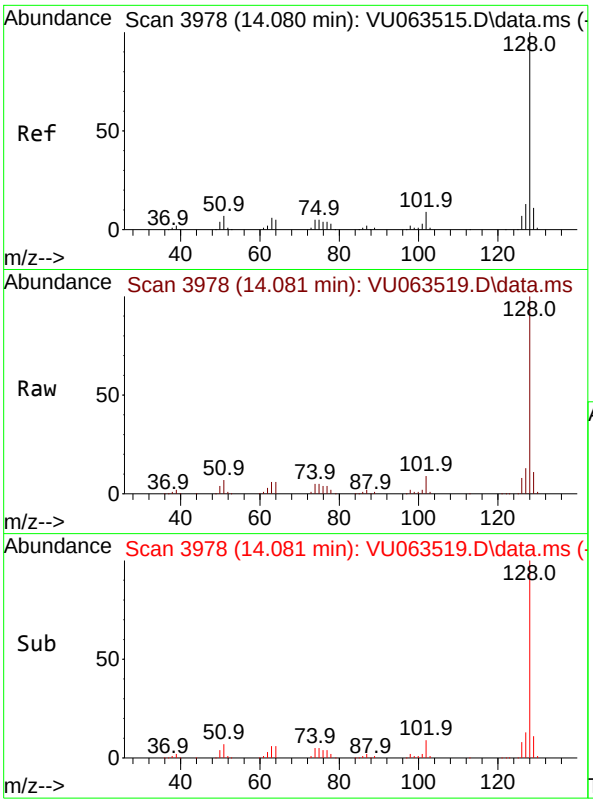


#88
Hexachlorobutadiene
Concen: 10.464 ug/l
RT: 14.013 min Scan# 3957
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:225 Resp: 56592

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.8	76.2
227	63.1	51.0	76.6

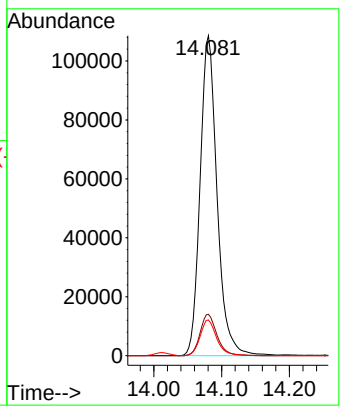




#89
Naphthalene
Concen: 11.071 ug/l
RT: 14.081 min Scan# 3
Delta R.T. 0.001 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:128 Resp: 188918

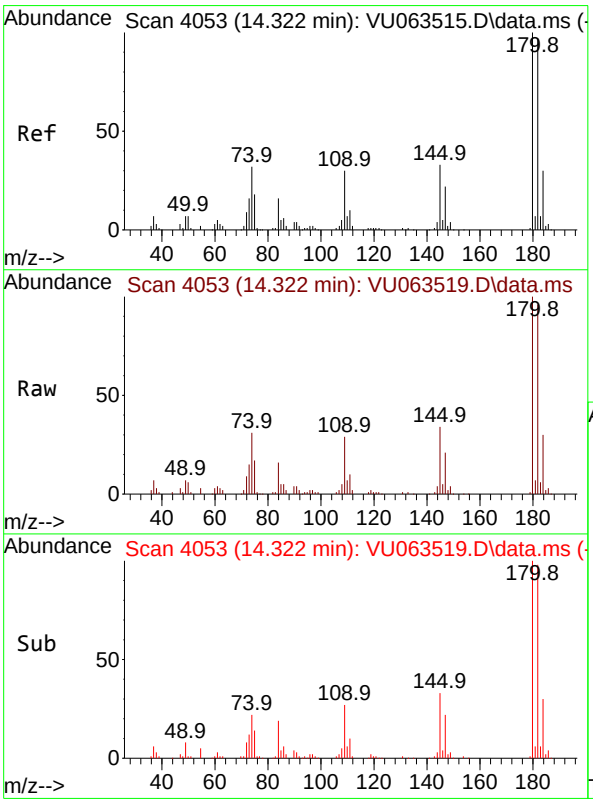
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	10.9	8.8	13.2



Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

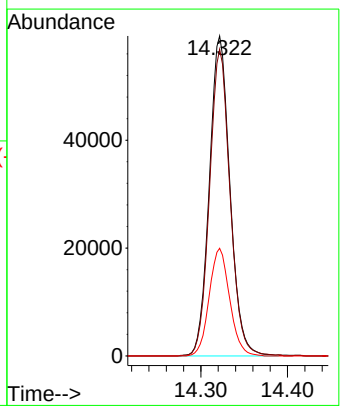
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025



#90
1,2,3-Trichlorobenzene
Concen: 11.161 ug/l
RT: 14.322 min Scan# 4053
Delta R.T. 0.000 min
Lab File: VU063519.D
Acq: 17 Jul 2025 09:25

Tgt Ion:180 Resp: 98222

Ion	Ratio	Lower	Upper
180	100		
182	95.3	78.0	117.0
145	33.4	27.3	40.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063519.D
Acq On : 17 Jul 2025 09:25
Operator : MD/SY
Sample : VSTDCCC010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC010

Quant Time: Jul 18 04:09:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Fluorobenzene	1.000	1.000	0.0	108	0.00
2	T	Dichlorodifluoromethane	0.295	0.284	3.7	103	0.00
3	t	Chloromethane	0.274	0.271	1.1	109	0.00
4	Rt	Vinyl Chloride	0.349	0.339	2.9	103	0.00
5	T	Bromomethane	0.263	0.242	8.0	107	0.00
6	T	Chloroethane	0.211	0.206	2.4	104	0.00
7	T	Trichlorofluoromethane	0.501	0.484	3.4	102	0.00
8		1,1,2-Trichloro-1,2,2-trifl	0.262	0.259	1.1	105	0.00
9	Rt	1,1-Dichloroethene	0.260	0.255	1.9	104	0.00
10	t	Iodomethane	0.314	0.350	-11.5	102	0.00
11	t	Allyl Chloride	0.375	0.371	1.1	105	0.00
12	t	Acrylonitrile	0.065	0.063	3.1	107	0.00
13	T	Acetone	0.052	0.080	-53.8#	172	0.00
14	T	Carbon Disulfide	0.839	0.805	4.1	101	0.00
15	RT	Methylene Chloride	0.306	0.286	6.5	105	0.00
16	RT	trans-1,2-Dichloroethene	0.295	0.282	4.4	102	0.00
17	t	1,1-Dichloroethane	0.546	0.536	1.8	105	0.00
18	T	2-Butanone	0.081	0.100	-23.5	135	0.00
19		Cyclohexane	0.463	0.437	5.6	102	0.00
20		Methylcyclohexane	0.450	0.467	-3.8	103	0.00
21	T	2,2-Dichloropropane	0.465	0.456	1.9	108	0.00
22	RT	cis-1,2-Dichloroethene	0.320	0.312	2.5	105	0.00
23	t	Diethyl Ether	0.198	0.199	-0.5	104	0.00
24	t	tert-Butyl Alcohol	0.024	0.023	4.2	104	0.00
25	t	Methyl tert-Butyl Ether	0.678	0.681	-0.4	106	0.00
26	t	Bromochloromethane	0.134	0.135	-0.7	106	0.00
27	t	Chloroform	0.558	0.543	2.7	107	0.00
28	RT	1,1,1-Trichloroethane	0.473	0.466	1.5	104	0.00
29	T	1,1-Dichloropropene	0.438	0.425	3.0	106	0.00
30	RT	Carbon Tetrachloride	0.381	0.388	-1.8	107	0.00
31	t	Isopropyl Ether	0.825	0.805	2.4	104	0.00
32		Ethyl-t-butyl ether	0.763	0.744	2.5	104	0.00
33		Tert-Amyl methyl ether	0.663	0.661	0.3	107	0.00
34	t	Propionitrile	0.025	0.023	8.0	108	0.00
35	RT	Benzene	1.178	1.188	-0.8	107	0.00
36	RT	1,2-Dichloroethane	0.366	0.368	-0.5	105	0.00
37	RT	Trichloroethene	0.301	0.318	-5.6	106	0.00
38	Rt	1,2-Dichloropropane	0.276	0.308	-11.6	105	0.00
39	t	Methacrylonitrile	0.109	0.101	7.3	107	0.00
40	t	Methyl acrylate	0.159	0.149	6.3	95	0.00
41	t	Tetrahydrofuran	0.057	0.051	10.5	106	0.00
42	t	1-Chlorobutane	0.583	0.580	0.5	106	0.00
43	T	Dibromomethane	0.143	0.144	-0.7	101	0.00
44	T	Bromodichloromethane	0.322	0.324	-0.6	107	0.00
45	T	4-Methyl-2-Pentanone	0.147	0.154	-4.8	109	0.00
46	t	t-1,4-Dichloro-2-butene	0.055	0.052	5.5	90	0.00
47	t	Methyl methacrylate	0.120	0.125	-4.2	106	0.00
48	t	Ethyl methacrylate	0.229	0.249	-8.7	106	0.00
49	Rt	Toluene	0.643	0.653	-1.6	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063519.D
Acq On : 17 Jul 2025 09:25
Operator : MD/SY
Sample : VSTDCCC010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC010

Quant Time: Jul 18 04:09:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	t-1,3-Dichloropropene	0.253	0.278	-9.9	105	0.00
51	T	cis-1,3-Dichloropropene	0.339	0.359	-5.9	107	0.00
52	RT	1,1,2-Trichloroethane	0.192	0.199	-3.6	106	0.00
53	t	1,3-Dichloropropane	0.332	0.333	-0.3	105	0.00
54	t	2-Hexanone	0.098	0.118	-20.4	124	0.00
55	t	Dibromochloromethane	0.203	0.229	-12.8	106	0.00
56	T	1,2-Dibromoethane	0.172	0.178	-3.5	107	0.00
57	S	4-Bromofluorobenzene	0.379	0.365	3.7	107	0.00
58	RT	Tetrachloroethene	0.275	0.267	2.9	101	0.00
59	Rt	Chlorobenzene	0.739	0.758	-2.6	106	0.00
60	T	1,1,1,2-Tetrachloroethane	0.238	0.246	-3.4	104	0.00
61	t	Pentachloroethane	0.168	0.181	-7.7	105	0.00
62	t	Hexachloroethane	0.166	0.183	-10.2	103	0.00
63	Rt	Ethyl Benzene	1.271	1.290	-1.5	106	0.00
64	RT	m/p-Xylenes	0.494	0.510	-3.2	106	0.00
65	RT	o-Xylene	0.475	0.499	-5.1	107	0.00
66	RT	Styrene	0.757	0.817	-7.9	107	0.00
67	t	Bromoform	0.104	0.116	-11.5	106	0.00
68	S	1,2-Dichlorobenzene-d4	0.350	0.339	3.1	102	0.00
69	T	Isopropylbenzene	1.148	1.207	-5.1	106	0.00
70	T	1,1,2,2-Tetrachloroethane	0.234	0.245	-4.7	109	0.00
71	T	1,2,3-Trichloropropane	0.190	0.195	-2.6	101	0.00
72	t	Bromobenzene	0.296	0.311	-5.1	108	0.00
73	t	n-propylbenzene	0.346	0.365	-5.5	105	0.00
74	t	2-Chlorotoluene	0.305	0.319	-4.6	107	0.00
75	t	1,3,5-Trimethylbenzene	1.097	1.162	-5.9	106	0.00
76	t	4-Chlorotoluene	0.310	0.333	-7.4	109	0.00
77	t	tert-Butylbenzene	1.048	1.102	-5.2	106	0.00
78	t	1,2,4-Trimethylbenzene	1.088	1.163	-6.9	106	0.00
79	t	sec-Butylbenzene	1.413	1.483	-5.0	105	0.00
80		Nitrobenzene	0.004	0.005	-25.0	102	0.00
81	t	p-Isopropyltoluene	1.180	1.264	-7.1	107	0.00
82	t	1,3-Dichlorobenzene	0.593	0.622	-4.9	107	0.00
83	Rt	1,4-Dichlorobenzene	0.593	0.625	-5.4	106	0.00
84	t	n-Butylbenzene	1.094	1.206	-10.2	107	0.00
85	Rt	1,2-Dichlorobenzene	0.557	0.586	-5.2	106	0.00
86	t	1,2-Dibromo-3-Chloropropane	0.033	0.040	-21.2	109	0.00
87	Rt	1,2,4-Trichlorobenzene	0.346	0.381	-10.1	107	0.00
88	t	Hexachlorobutadiene	0.197	0.206	-4.6	105	0.00
89	t	Naphthalene	0.621	0.687	-10.6	109	0.00
90	t	1,2,3-Trichlorobenzene	0.320	0.357	-11.6	109	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063519.D
Acq On : 17 Jul 2025 09:25
Operator : MD/SY
Sample : VSTDCCC010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC010

Quant Time: Jul 18 04:09:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	i	Fluorobenzene	1.000	1.000	0.0	108	0.00
2	T	Dichlorodifluoromethane	10.000	9.643	3.6	103	0.00
3	t	Chloromethane	10.000	9.902	1.0	109	0.00
4	Rt	Vinyl Chloride	10.000	9.718	2.8	103	0.00
5	T	Bromomethane	10.000	9.188	8.1	107	0.00
6	T	Chloroethane	10.000	9.774	2.3	104	0.00
7	T	Trichlorofluoromethane	10.000	9.648	3.5	102	0.00
8		1,1,2-Trichloro-1,2,2-trifl	10.000	9.874	1.3	105	0.00
9	Rt	1,1-Dichloroethene	10.000	9.834	1.7	104	0.00
10	t	Iodomethane	10.000	9.096	9.0	102	0.00
11	t	Allyl Chloride	10.000	9.904	1.0	105	0.00
12	t	Acrylonitrile	20.000	19.426	2.9	107	0.00
13	T	Acetone	50.000	76.573	-53.1#	172	0.00
14	T	Carbon Disulfide	10.000	9.597	4.0	101	0.00
15	RT	Methylene Chloride	10.000	9.347	6.5	105	0.00
16	RT	trans-1,2-Dichloroethene	10.000	9.547	4.5	102	0.00
17	t	1,1-Dichloroethane	10.000	9.813	1.9	105	0.00
18	T	2-Butanone	50.000	61.835	-23.7	135	0.00
19		Cyclohexane	10.000	9.447	5.5	102	0.00
20		Methylcyclohexane	10.000	10.376	-3.8	103	0.00
21	T	2,2-Dichloropropane	10.000	9.790	2.1	108	0.00
22	RT	cis-1,2-Dichloroethene	10.000	9.751	2.5	105	0.00
23	t	Diethyl Ether	10.000	10.062	-0.6	104	0.00
24	t	tert-Butyl Alcohol	100.000	96.429	3.6	104	0.00
25	t	Methyl tert-Butyl Ether	10.000	10.052	-0.5	106	0.00
26	t	Bromochloromethane	10.000	10.094	-0.9	106	0.00
27	t	Chloroform	10.000	9.734	2.7	107	0.00
28	RT	1,1,1-Trichloroethane	10.000	9.841	1.6	104	0.00
29	T	1,1-Dichloropropene	10.000	9.703	3.0	106	0.00
30	RT	Carbon Tetrachloride	10.000	10.193	-1.9	107	0.00
31	t	Isopropyl Ether	10.000	9.757	2.4	104	0.00
32		Ethyl-t-butyl ether	10.000	9.745	2.6	104	0.00
33		Tert-Amyl methyl ether	10.000	9.982	0.2	107	0.00
34	t	Propionitrile	50.000	47.084	5.8	108	0.00
35	RT	Benzene	10.000	10.088	-0.9	107	0.00
36	RT	1,2-Dichloroethane	10.000	10.057	-0.6	105	0.00
37	RT	Trichloroethene	10.000	10.590	-5.9	106	0.00
38	Rt	1,2-Dichloropropane	10.000	11.175	-11.8	105	0.00
39	t	Methacrylonitrile	10.000	9.213	7.9	107	0.00
40	t	Methyl acrylate	10.000	9.339	6.6	95	0.00
41	t	Tetrahydrofuran	20.000	17.936	10.3	106	0.00
42	t	1-Chlorobutane	10.000	9.953	0.5	106	0.00
43	T	Dibromomethane	10.000	10.067	-0.7	101	0.00
44	T	Bromodichloromethane	10.000	10.053	-0.5	107	0.00
45	T	4-Methyl-2-Pentanone	50.000	52.266	-4.5	109	0.00
46	t	t-1,4-Dichloro-2-butene	20.000	18.890	5.5	90	0.00
47	t	Methyl methacrylate	20.000	20.900	-4.5	106	0.00
48	t	Ethyl methacrylate	10.000	10.861	-8.6	106	0.00
49	Rt	Toluene	10.000	10.158	-1.6	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063519.D
Acq On : 17 Jul 2025 09:25
Operator : MD/SY
Sample : VSTDCCC010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
LabSampleId :
VSTDCCC010

Quant Time: Jul 18 04:09:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50	T	t-1,3-Dichloropropene	10.000	11.010	-10.1	105	0.00
51	T	cis-1,3-Dichloropropene	10.000	10.590	-5.9	107	0.00
52	RT	1,1,2-Trichloroethane	10.000	10.365	-3.7	106	0.00
53	t	1,3-Dichloropropane	10.000	10.044	-0.4	105	0.00
54	t	2-Hexanone	50.000	60.570	-21.1	124	0.00
55	t	Dibromochloromethane	10.000	11.250	-12.5	106	0.00
56	T	1,2-Dibromoethane	10.000	10.326	-3.3	107	0.00
57	S	4-Bromofluorobenzene	1.000	0.965	3.5	107	0.00
58	RT	Tetrachloroethene	10.000	9.712	2.9	101	0.00
59	Rt	Chlorobenzene	10.000	10.255	-2.6	106	0.00
60	T	1,1,1,2-Tetrachloroethane	10.000	10.370	-3.7	104	0.00
61	t	Pentachloroethane	10.000	10.774	-7.7	105	0.00
62	t	Hexachloroethane	10.000	11.016	-10.2	103	0.00
63	Rt	Ethyl Benzene	10.000	10.146	-1.5	106	0.00
64	RT	m/p-Xylenes	20.000	20.632	-3.2	106	0.00
65	RT	o-Xylene	10.000	10.509	-5.1	107	0.00
66	RT	Styrene	10.000	10.792	-7.9	107	0.00
67	t	Bromoform	10.000	11.101	-11.0	106	0.00
68	S	1,2-Dichlorobenzene-d4	1.000	0.968	3.2	102	0.00
69	T	Isopropylbenzene	10.000	10.511	-5.1	106	0.00
70	T	1,1,2,2-Tetrachloroethane	10.000	10.472	-4.7	109	0.00
71	T	1,2,3-Trichloropropane	10.000	10.239	-2.4	101	0.00
72	t	Bromobenzene	10.000	10.490	-4.9	108	0.00
73	t	n-propylbenzene	10.000	10.559	-5.6	105	0.00
74	t	2-Chlorotoluene	10.000	10.457	-4.6	107	0.00
75	t	1,3,5-Trimethylbenzene	10.000	10.596	-6.0	106	0.00
76	t	4-Chlorotoluene	10.000	10.731	-7.3	109	0.00
77	t	tert-Butylbenzene	10.000	10.518	-5.2	106	0.00
78	t	1,2,4-Trimethylbenzene	10.000	10.690	-6.9	106	0.00
79	t	sec-Butylbenzene	10.000	10.493	-4.9	105	0.00
80		Nitrobenzene	50.000	48.829	2.3	102	0.00
81	t	p-Isopropyltoluene	10.000	10.712	-7.1	107	0.00
82	t	1,3-Dichlorobenzene	10.000	10.490	-4.9	107	0.00
83	Rt	1,4-Dichlorobenzene	10.000	10.541	-5.4	106	0.00
84	t	n-Butylbenzene	10.000	11.026	-10.3	107	0.00
85	Rt	1,2-Dichlorobenzene	10.000	10.514	-5.1	106	0.00
86	t	1,2-Dibromo-3-Chloropropane	10.000	10.149	-1.5	109	0.00
87	Rt	1,2,4-Trichlorobenzene	10.000	11.013	-10.1	107	0.00
88	t	Hexachlorobutadiene	10.000	10.464	-4.6	105	0.00
89	t	Naphthalene	10.000	11.071	-10.7	109	0.00
90	t	1,2,3-Trichlorobenzene	10.000	11.161	-11.6	109	0.00

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

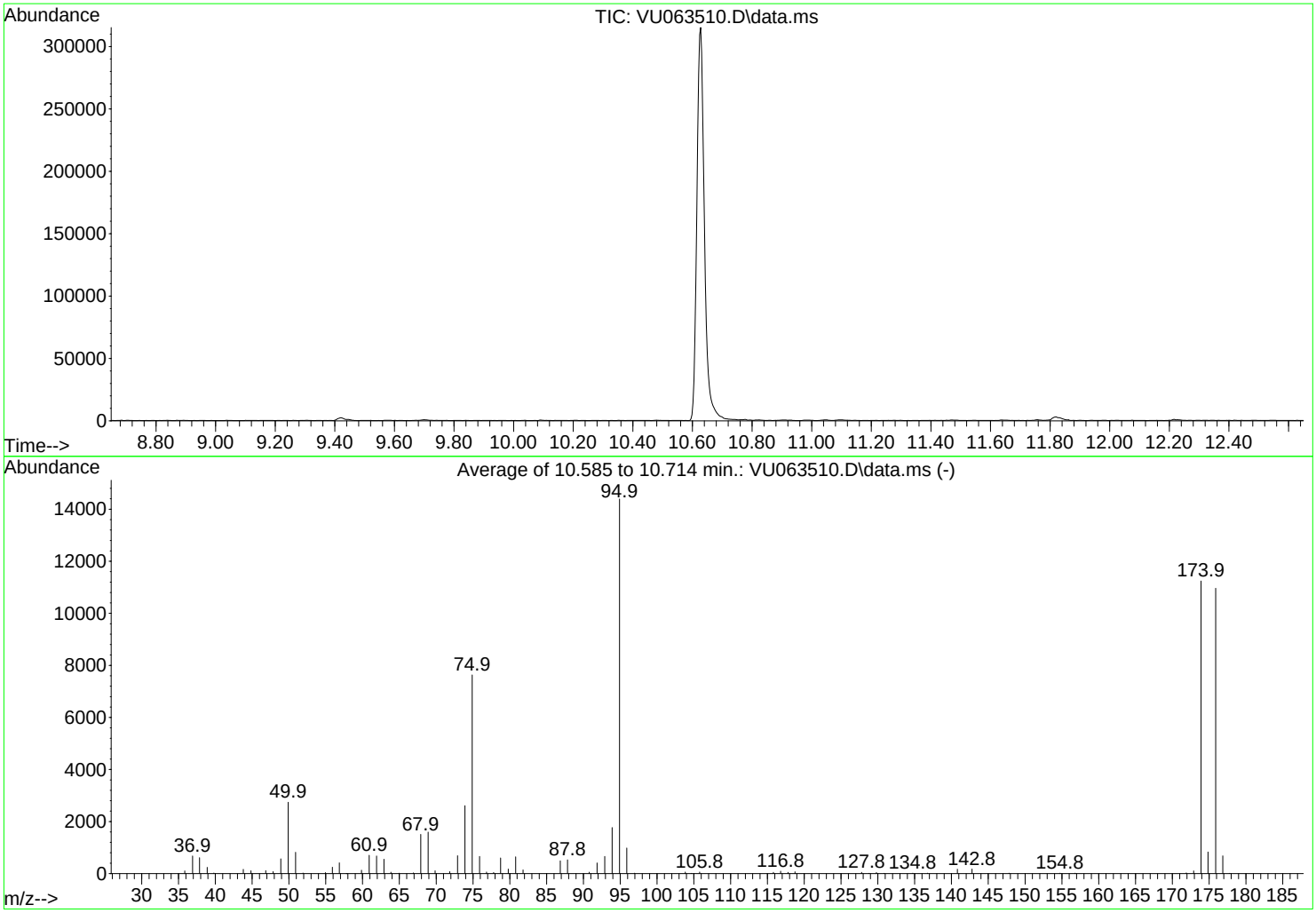
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071625\
Data File : VU063510.D
Acq On : 16 Jul 2025 08:13
Operator : MD/SY
Sample : BFB
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFB

Integration File: rteint.p

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Title : METHOD 524.2 VOLATILES DRINKING WATER
Last Update : Thu Jul 17 03:49:40 2025



AutoFind: Averaged scan 2891 to 2931; Bkg corrected with scan 2890

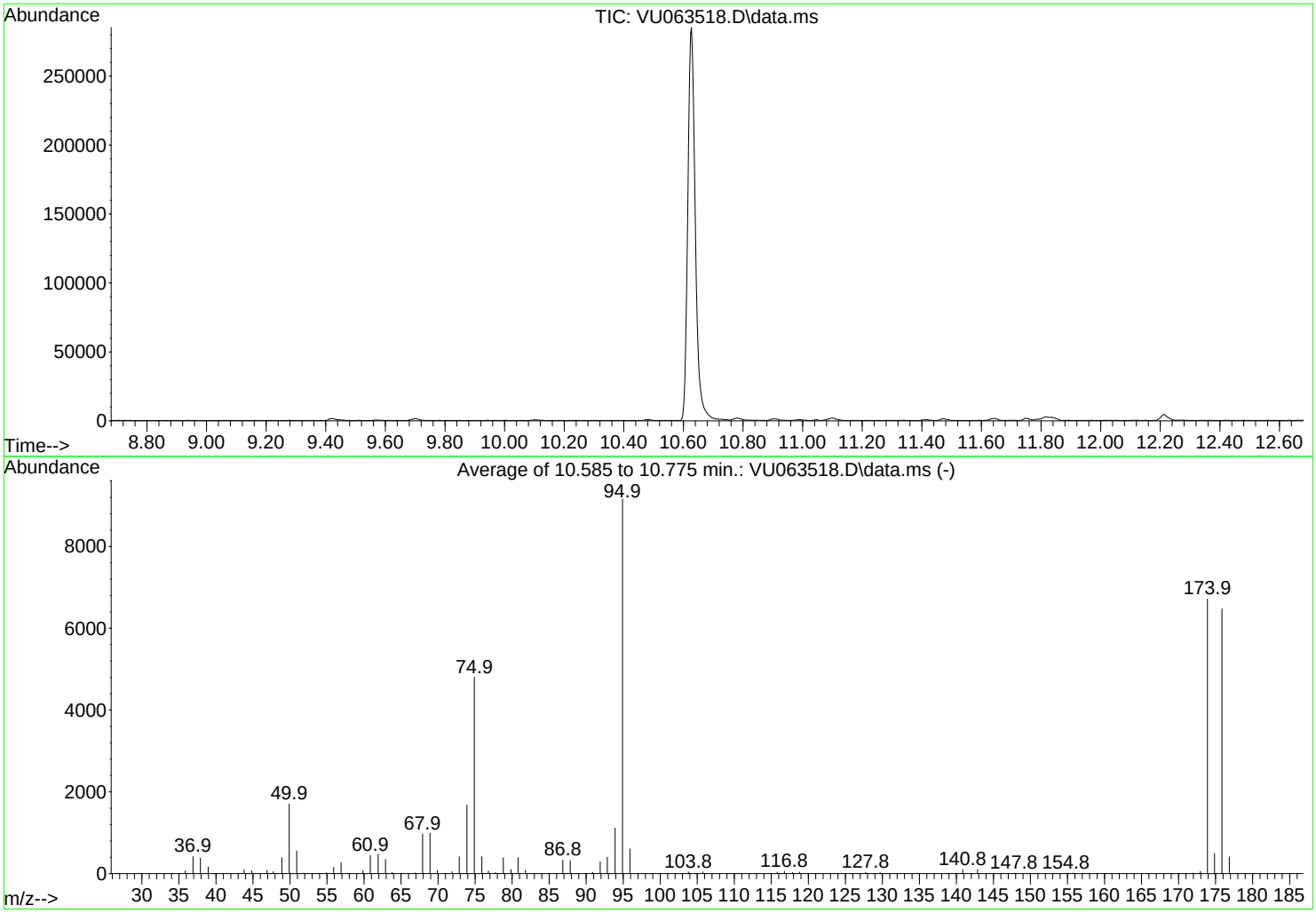
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	2743	PASS
75	95	30	60	53.0	7631	PASS
95	95	100	100	100.0	14392	PASS
96	95	5	9	6.8	984	PASS
173	174	0.00	2	0.9	104	PASS
174	95	50	100	78.1	11242	PASS
175	174	5	9	7.4	829	PASS
176	174	95	101	97.5	10965	PASS
177	176	5	9	6.2	681	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063518.D
Acq On : 17 Jul 2025 08:10
Operator : MD/SY
Sample : BFB
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFB

Integration File: rteint.p

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Title : METHOD 524.2 VOLATILES DRINKING WATER
Last Update : Thu Jul 17 03:49:40 2025



AutoFind: Averaged scan 2891 to 2950; Bkg corrected with scan 2890

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	1703	PASS
75	95	30	60	52.4	4803	PASS
95	95	100	100	100.0	9161	PASS
96	95	5	9	6.6	606	PASS
173	174	0.00	2	0.8	56	PASS
174	95	50	100	73.3	6718	PASS
175	174	5	9	7.3	493	PASS
176	174	95	101	96.4	6474	PASS
177	176	5	9	6.3	405	PASS

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU0717WBL01	SDG No.:	Q2552
Lab Sample ID:	VU0717WBL01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063520.D	1	07/17/25 11:31	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.12	U	0.12	0.50	ug/L
74-87-3	Chloromethane	0.13	U	0.13	0.50	ug/L
75-01-4	Vinyl Chloride	0.12	U	0.12	0.50	ug/L
74-83-9	Bromomethane	0.15	U	0.15	0.50	ug/L
75-00-3	Chloroethane	0.14	U	0.14	0.50	ug/L
109-99-9	Tetrahydrofuran	0.42	U	0.42	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.50	ug/L
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.11	U	0.11	0.50	ug/L
75-65-0	tert-Butyl Alcohol	3.60	U	3.60	10.0	ug/L
60-29-7	Diethyl Ether	0.13	U	0.13	0.50	ug/L
75-35-4	1,1-Dichloroethene	0.13	U	0.13	0.50	ug/L
107-13-1	Acrylonitrile	0.44	U	0.44	1.00	ug/L
67-64-1	Acetone	0.97	U	0.97	2.50	ug/L
75-15-0	Carbon Disulfide	0.12	U	0.12	0.50	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.11	U	0.11	0.50	ug/L
96-33-3	Methyl acrylate	0.33	U	0.33	0.50	ug/L
75-09-2	Methylene Chloride	0.44	U	0.44	0.50	ug/L
156-60-5	trans-1,2-Dichloroethene	0.14	U	0.14	0.50	ug/L
75-34-3	1,1-Dichloroethane	0.13	U	0.13	0.50	ug/L
110-82-7	Cyclohexane	0.14	U	0.14	0.50	ug/L
78-93-3	2-Butanone	0.72	U	0.72	2.50	ug/L
56-23-5	Carbon Tetrachloride	0.13	U	0.13	0.50	ug/L
594-20-7	2,2-Dichloropropane	0.12	U	0.12	0.50	ug/L
156-59-2	cis-1,2-Dichloroethene	0.13	U	0.13	0.50	ug/L
74-97-5	Bromochloromethane	0.17	U	0.17	0.50	ug/L
67-66-3	Chloroform	0.17	U	0.17	0.50	ug/L
71-55-6	1,1,1-Trichloroethane	0.12	U	0.12	0.50	ug/L
108-87-2	Methylcyclohexane	0.090	U	0.090	0.50	ug/L
563-58-6	1,1-Dichloropropene	0.11	U	0.11	0.50	ug/L
107-12-0	Propionitrile	1.20	U	1.20	2.50	ug/L

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU0717WBL01	SDG No.:	Q2552
Lab Sample ID:	VU0717WBL01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063520.D	1	07/17/25 11:31	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-43-2	Benzene	0.11	U	0.11	0.50	ug/L
107-06-2	1,2-Dichloroethane	0.14	U	0.14	0.50	ug/L
79-01-6	Trichloroethene	0.13	U	0.13	0.50	ug/L
78-87-5	1,2-Dichloropropane	0.13	U	0.13	0.50	ug/L
109-69-3	1-Chlorobutane	0.12	U	0.12	0.50	ug/L
74-95-3	Dibromomethane	0.15	U	0.15	0.50	ug/L
75-27-4	Bromodichloromethane	0.13	U	0.13	0.50	ug/L
108-10-1	4-Methyl-2-Pentanone	0.63	U	0.63	2.50	ug/L
108-88-3	Toluene	0.11	U	0.11	0.50	ug/L
10061-02-6	t-1,3-Dichloropropene	0.11	U	0.11	0.50	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.11	U	0.11	0.50	ug/L
79-00-5	1,1,2-Trichloroethane	0.13	U	0.13	0.50	ug/L
142-28-9	1,3-Dichloropropane	0.12	U	0.12	0.50	ug/L
591-78-6	2-Hexanone	0.65	U	0.65	2.50	ug/L
124-48-1	Dibromochloromethane	0.20	U	0.20	0.50	ug/L
106-93-4	1,2-Dibromoethane	0.13	U	0.13	0.50	ug/L
127-18-4	Tetrachloroethene	0.14	U	0.14	0.50	ug/L
108-90-7	Chlorobenzene	0.11	U	0.11	0.50	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.13	U	0.13	0.50	ug/L
67-72-1	Hexachloroethane	0.12	U	0.12	0.50	ug/L
100-41-4	Ethyl Benzene	0.41	U	0.41	0.50	ug/L
179601-23-1	m/p-Xylenes	0.73	U	0.73	1.00	ug/L
1330-20-7	Total Xylenes	1.09	U	1.09	1.50	ug/L
95-47-6	o-Xylene	0.36	U	0.36	0.50	ug/L
100-42-5	Styrene	0.38	U	0.38	0.50	ug/L
75-25-2	Bromoform	0.31	U	0.31	0.50	ug/L
98-82-8	Isopropylbenzene	0.38	U	0.38	0.50	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.13	0.50	ug/L
96-18-4	1,2,3-Trichloropropane	0.19	U	0.19	0.50	ug/L
108-86-1	Bromobenzene	0.13	U	0.13	0.50	ug/L
103-65-1	n-propylbenzene	0.42	U	0.42	0.50	ug/L

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU0717WBL01	SDG No.:	Q2552
Lab Sample ID:	VU0717WBL01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063520.D	1	07/17/25 11:31	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-49-8	2-Chlorotoluene	0.27	U	0.27	0.50	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.37	U	0.37	0.50	ug/L
106-43-4	4-Chlorotoluene	0.27	U	0.27	0.50	ug/L
98-06-6	tert-Butylbenzene	0.37	U	0.37	0.50	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.40	U	0.40	0.50	ug/L
135-98-8	sec-Butylbenzene	0.36	U	0.36	0.50	ug/L
99-87-6	p-Isopropyltoluene	0.42	U	0.42	0.50	ug/L
541-73-1	1,3-Dichlorobenzene	0.13	U	0.13	0.50	ug/L
106-46-7	1,4-Dichlorobenzene	0.13	U	0.13	0.50	ug/L
104-51-8	n-Butylbenzene	0.43	U	0.43	0.50	ug/L
95-50-1	1,2-Dichlorobenzene	0.14	U	0.14	0.50	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.24	U	0.24	0.50	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.21	U	0.21	0.50	ug/L
87-68-3	Hexachlorobutadiene	0.14	U	0.14	0.50	ug/L
91-20-3	Naphthalene	0.33	U	0.33	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.31	U	0.31	0.50	ug/L
74-88-4	Iodomethane	0.090	U	0.090	1.00	ug/L
107-05-1	Allyl Chloride	0.13	U	0.13	0.50	ug/L
126-98-7	Methacrylonitrile	0.24	U	0.24	0.50	ug/L
108-20-3	Isopropyl Ether	0.14	U	0.14	0.50	ug/L
80-62-6	Methyl methacrylate	0.24	U	0.24	1.00	ug/L
SURROGATES						
2199-69-1	1,2-Dichlorobenzene-d4	0.94		70 - 130	94%	SPK: 1
460-00-4	4-Bromofluorobenzene	1.10		70 - 130	107%	SPK: 1
INTERNAL STANDARDS						
462-06-6	Fluorobenzene	23000	6.1			
	Tert-Amyl methyl ether					

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU0717WBL01	SDG No.:	Q2552
Lab Sample ID:	VU0717WBL01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063520.D	1	07/17/25 11:31	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	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_U\Data\VU071725\
Data File : VU063520.D
Acq On : 17 Jul 2025 11:31
Operator : MD/SY
Sample : VU0717WBL01
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBL01

Quant Time: Jul 18 04:10:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

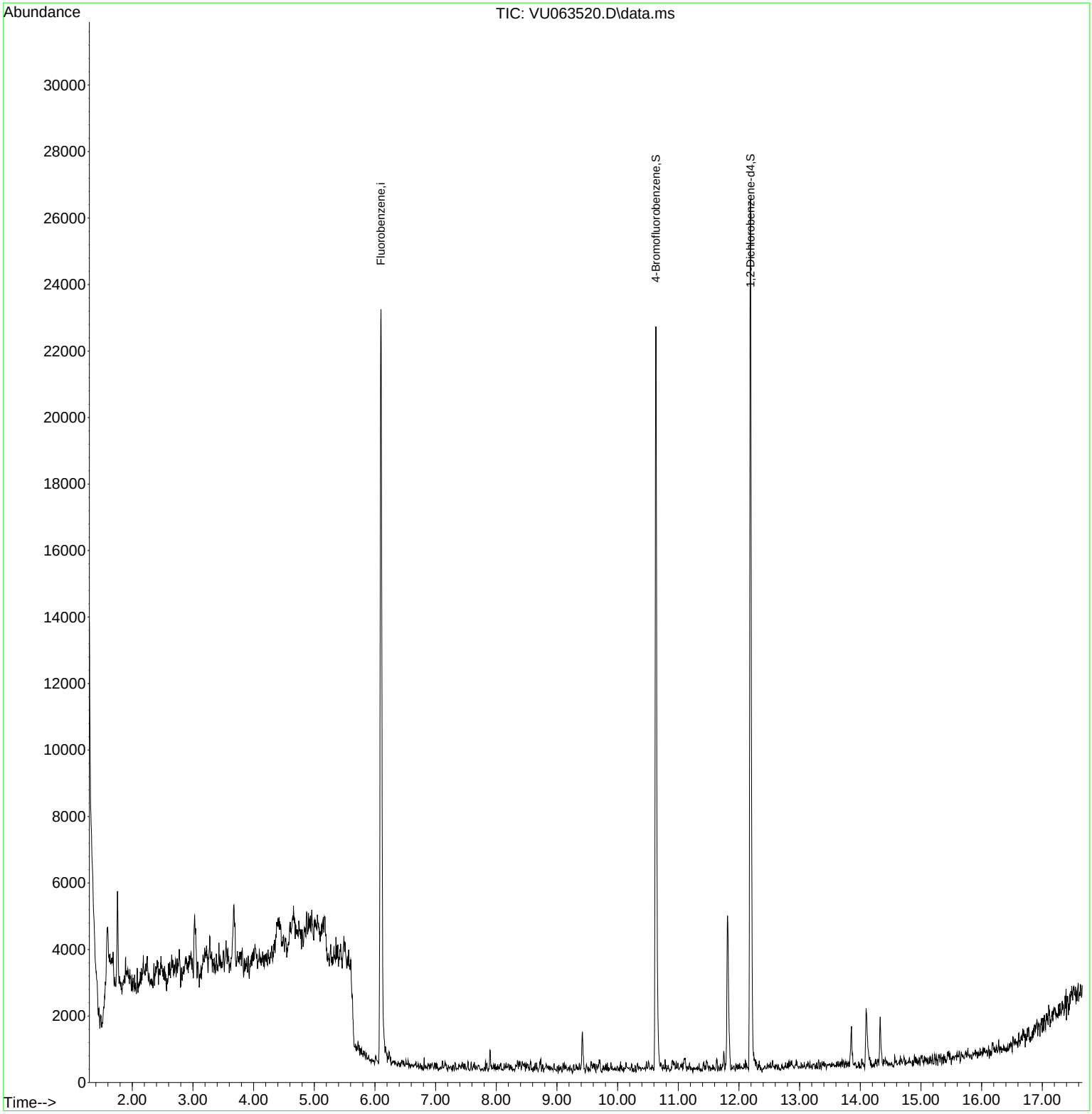
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.100	96	22965	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	9320	1.072	ug/l	0.00
Spiked Amount 1.000			Recovery = 107.000%			
68) 1,2-Dichlorobenzene-d4	12.190	152	7520	0.935	ug/l	0.00
Spiked Amount 1.000			Recovery = 94.000%			
Target Compounds						Qvalue

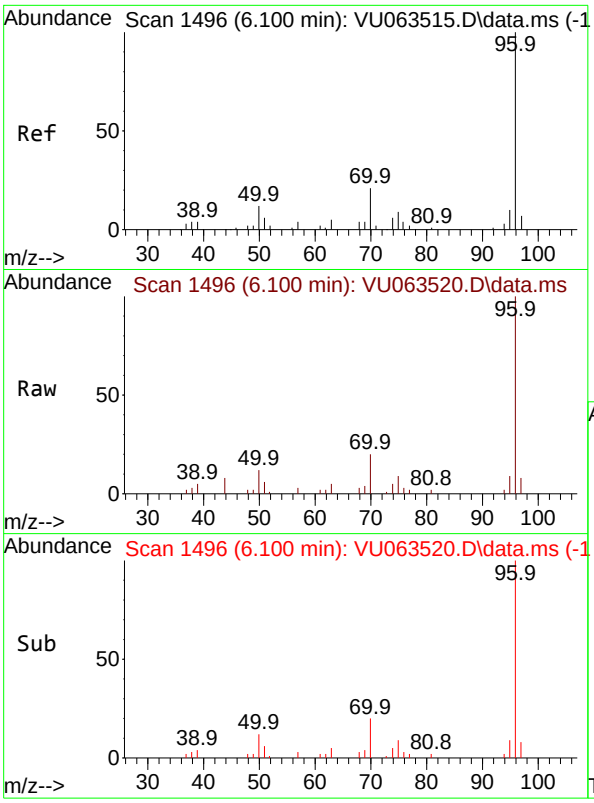
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063520.D
Acq On : 17 Jul 2025 11:31
Operator : MD/SY
Sample : VU0717WBL01
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBL01

Quant Time: Jul 18 04:10:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration



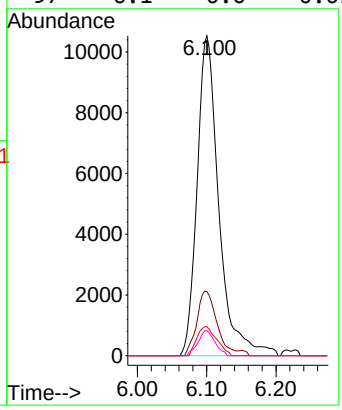


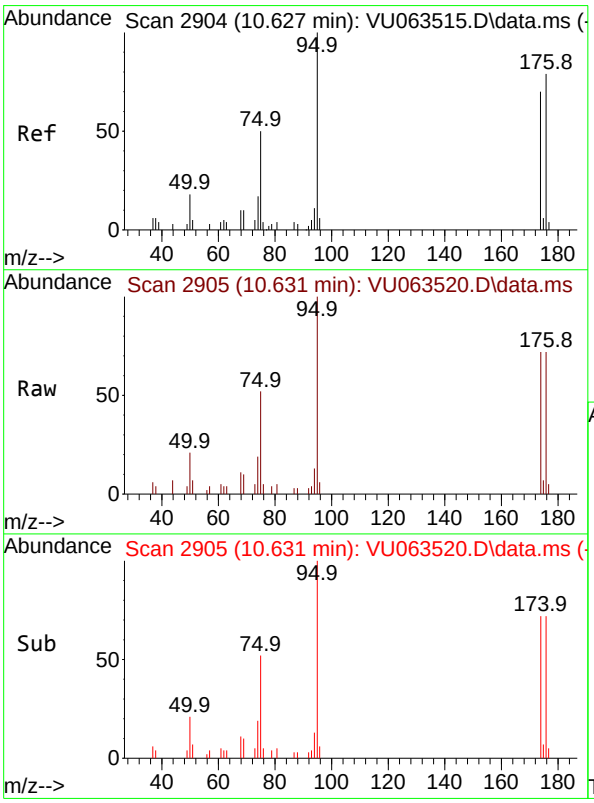
#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.100 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063520.D
Acq: 17 Jul 2025 11:31

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBL01

Tgt Ion: 96 Resp: 22965

Ion	Ratio	Lower	Upper
96	100		
70	17.1	15.0	22.4
95	8.2	7.4	11.0
97	6.1	0.0	0.0#

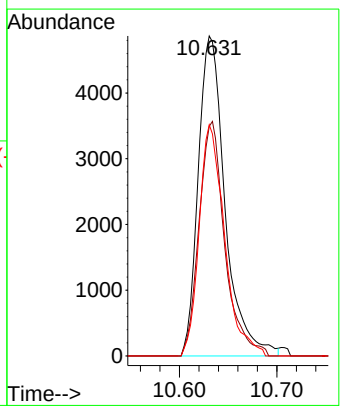


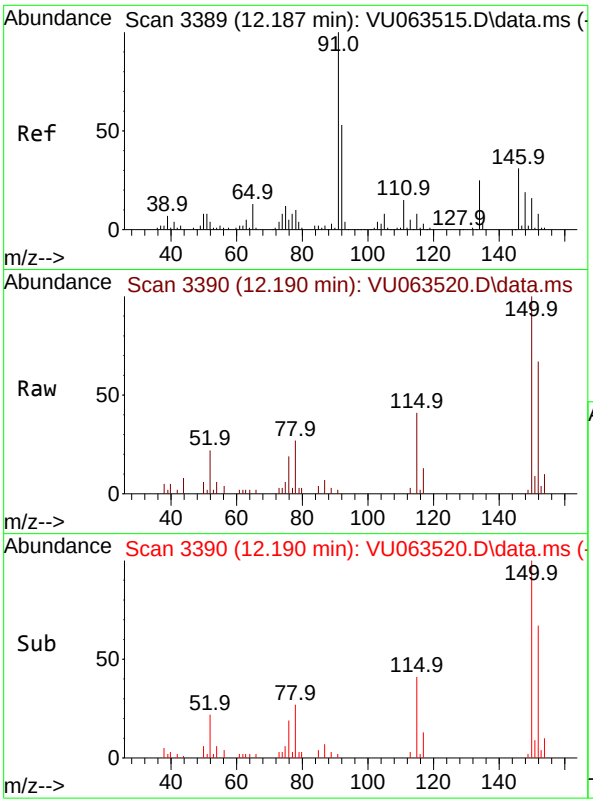


#57
4-Bromofluorobenzene
Concen: 1.072 ug/l
RT: 10.631 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VU063520.D
Acq: 17 Jul 2025 11:31

Tgt Ion: 95 Resp: 9320

Ion	Ratio	Lower	Upper
95	100		
174	70.2	59.8	89.8
176	68.4	61.8	92.8



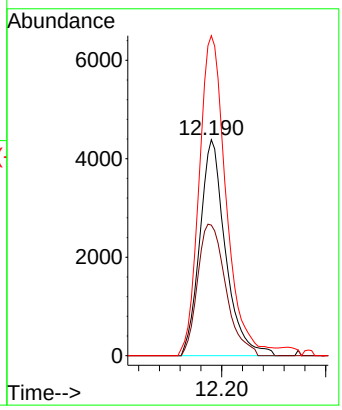


#68
1,2-Dichlorobenzene-d4
Concen: 0.935 ug/l
RT: 12.190 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063520.D
Acq: 17 Jul 2025 11:31

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBL01

Tgt Ion:152 Resp: 7520

Ion	Ratio	Lower	Upper
152	100		
115	66.9	0.0	262.2
150	155.8	0.0	651.2



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Fax : 908 789 8922

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU0717WBS01	SDG No.:	Q2552
Lab Sample ID:	VU0717WBS01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063521.D	1	07/17/25 12:43	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.90		0.12	0.50	ug/L
74-87-3	Chloromethane	2.20		0.13	0.50	ug/L
75-01-4	Vinyl Chloride	2.00		0.12	0.50	ug/L
74-83-9	Bromomethane	2.30		0.15	0.50	ug/L
75-00-3	Chloroethane	2.00		0.14	0.50	ug/L
109-99-9	Tetrahydrofuran	4.70		0.42	1.00	ug/L
75-69-4	Trichlorofluoromethane	2.10		0.20	0.50	ug/L
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00		0.11	0.50	ug/L
75-65-0	tert-Butyl Alcohol	20.3		3.60	10.0	ug/L
60-29-7	Diethyl Ether	2.10		0.13	0.50	ug/L
75-35-4	1,1-Dichloroethene	2.10		0.13	0.50	ug/L
107-13-1	Acrylonitrile	4.00		0.44	1.00	ug/L
67-64-1	Acetone	12.8		0.97	2.50	ug/L
75-15-0	Carbon Disulfide	1.80		0.12	0.50	ug/L
1634-04-4	Methyl tert-Butyl Ether	2.10		0.11	0.50	ug/L
96-33-3	Methyl acrylate	1.90		0.33	0.50	ug/L
75-09-2	Methylene Chloride	2.30		0.44	0.50	ug/L
156-60-5	trans-1,2-Dichloroethene	2.00		0.14	0.50	ug/L
75-34-3	1,1-Dichloroethane	2.10		0.13	0.50	ug/L
110-82-7	Cyclohexane	2.10		0.14	0.50	ug/L
78-93-3	2-Butanone	11.2		0.72	2.50	ug/L
56-23-5	Carbon Tetrachloride	1.90		0.13	0.50	ug/L
594-20-7	2,2-Dichloropropane	2.00		0.12	0.50	ug/L
156-59-2	cis-1,2-Dichloroethene	2.10		0.13	0.50	ug/L
74-97-5	Bromochloromethane	2.10		0.17	0.50	ug/L
67-66-3	Chloroform	2.10		0.17	0.50	ug/L
71-55-6	1,1,1-Trichloroethane	2.00		0.12	0.50	ug/L
108-87-2	Methylcyclohexane	1.80		0.090	0.50	ug/L
563-58-6	1,1-Dichloropropene	2.10		0.11	0.50	ug/L
107-12-0	Propionitrile	10.4		1.20	2.50	ug/L

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU0717WBS01	SDG No.:	Q2552
Lab Sample ID:	VU0717WBS01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063521.D	1	07/17/25 12:43	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-43-2	Benzene	2.20		0.11	0.50	ug/L
107-06-2	1,2-Dichloroethane	2.20		0.14	0.50	ug/L
79-01-6	Trichloroethene	1.80		0.13	0.50	ug/L
78-87-5	1,2-Dichloropropane	1.90		0.13	0.50	ug/L
109-69-3	1-Chlorobutane	2.10		0.12	0.50	ug/L
74-95-3	Dibromomethane	1.80		0.15	0.50	ug/L
75-27-4	Bromodichloromethane	1.80		0.13	0.50	ug/L
108-10-1	4-Methyl-2-Pentanone	9.70		0.63	2.50	ug/L
108-88-3	Toluene	1.90		0.11	0.50	ug/L
10061-02-6	t-1,3-Dichloropropene	1.60		0.11	0.50	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.70		0.11	0.50	ug/L
79-00-5	1,1,2-Trichloroethane	2.00		0.13	0.50	ug/L
142-28-9	1,3-Dichloropropane	2.00		0.12	0.50	ug/L
591-78-6	2-Hexanone	10.2		0.65	2.50	ug/L
124-48-1	Dibromochloromethane	1.80		0.20	0.50	ug/L
106-93-4	1,2-Dibromoethane	1.90		0.13	0.50	ug/L
127-18-4	Tetrachloroethene	1.90		0.14	0.50	ug/L
108-90-7	Chlorobenzene	1.90		0.11	0.50	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.70		0.13	0.50	ug/L
67-72-1	Hexachloroethane	1.60		0.12	0.50	ug/L
100-41-4	Ethyl Benzene	1.90		0.41	0.50	ug/L
179601-23-1	m/p-Xylenes	3.80		0.73	1.00	ug/L
1330-20-7	Total Xylenes	5.80		1.09	1.50	ug/L
95-47-6	o-Xylene	2.00		0.36	0.50	ug/L
100-42-5	Styrene	1.90		0.38	0.50	ug/L
75-25-2	Bromoform	1.60		0.31	0.50	ug/L
98-82-8	Isopropylbenzene	2.00		0.38	0.50	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.90		0.13	0.50	ug/L
96-18-4	1,2,3-Trichloropropane	1.90		0.19	0.50	ug/L
108-86-1	Bromobenzene	1.90		0.13	0.50	ug/L
103-65-1	n-propylbenzene	2.00		0.42	0.50	ug/L

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU0717WBS01	SDG No.:	Q2552
Lab Sample ID:	VU0717WBS01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063521.D	1	07/17/25 12:43	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-49-8	2-Chlorotoluene	2.00		0.27	0.50	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.90		0.37	0.50	ug/L
106-43-4	4-Chlorotoluene	2.00		0.27	0.50	ug/L
98-06-6	tert-Butylbenzene	1.90		0.37	0.50	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.90		0.40	0.50	ug/L
135-98-8	sec-Butylbenzene	2.00		0.36	0.50	ug/L
99-87-6	p-Isopropyltoluene	2.00		0.42	0.50	ug/L
541-73-1	1,3-Dichlorobenzene	1.90		0.13	0.50	ug/L
106-46-7	1,4-Dichlorobenzene	1.90		0.13	0.50	ug/L
104-51-8	n-Butylbenzene	2.00		0.43	0.50	ug/L
95-50-1	1,2-Dichlorobenzene	1.90		0.14	0.50	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.70		0.24	0.50	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.90		0.21	0.50	ug/L
87-68-3	Hexachlorobutadiene	1.90		0.14	0.50	ug/L
91-20-3	Naphthalene	1.80		0.33	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.80		0.31	0.50	ug/L
74-88-4	Iodomethane	1.80		0.090	1.00	ug/L
107-05-1	Allyl Chloride	2.00		0.13	0.50	ug/L
126-98-7	Methacrylonitrile	1.90		0.24	0.50	ug/L
108-20-3	Isopropyl Ether	2.10		0.14	0.50	ug/L
80-62-6	Methyl methacrylate	3.50		0.24	1.00	ug/L
SURROGATES						
2199-69-1	1,2-Dichlorobenzene-d4	0.94		70 - 130	94%	SPK: 1
460-00-4	4-Bromofluorobenzene	1.00		70 - 130	100%	SPK: 1
INTERNAL STANDARDS						
462-06-6	Fluorobenzene	21900	6.097			
	Tert-Amyl methyl ether					

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU0717WBS01	SDG No.:	Q2552
Lab Sample ID:	VU0717WBS01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063521.D	1	07/17/25 12:43	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	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_U\Data\VU071725\
Data File : VU063521.D
Acq On : 17 Jul 2025 12:43
Operator : MD/SY
Sample : VU0717WBS01
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 04:10:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.097	96	21864	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.628	95	8236	0.995	ug/l	0.00
Spiked Amount 1.000			Recovery = 99.000%			
68) 1,2-Dichlorobenzene-d4	12.187	152	7166	0.936	ug/l	0.00
Spiked Amount 1.000			Recovery = 94.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.381	85	12281	1.905	ug/l	98
3) Chloromethane	1.519	50	12925	2.157	ug/l	98
4) Vinyl Chloride	1.599	62	15376	2.015	ug/l	100
5) Bromomethane	1.847	94	13111	2.278	ug/l	94
6) Chloroethane	1.927	64	9342	2.027	ug/l	100
7) Trichlorofluoromethane	2.130	101	22634	2.065	ug/l	100
8) 1,1,2-Trichloro-1,2,2-...	2.570	101	11730	2.048	ug/l	99
9) 1,1-Dichloroethene	2.567	96	11724	2.065	ug/l	97
10) Iodomethane	2.708	142	8006	1.773	ug/l	97
11) Allyl Chloride	2.908	41	16576	2.021	ug/l	98
12) Acrylonitrile	3.306	53	5711	4.023	ug/l	98
13) Acetone	2.622	43	14599	12.835	ug/l	98
14) Carbon Disulfide	2.779	76	33865	1.847	ug/l	98
15) Methylene Chloride	3.030	84	15114	2.262	ug/l	97
16) trans-1,2-Dichloroethene	3.335	96	12801	1.986	ug/l	96
17) 1,1-Dichloroethane	3.850	63	24869	2.081	ug/l	99
18) 2-Butanone	4.718	43	19663	11.163	ug/l	95
19) Cyclohexane	5.358	56	20801	2.056	ug/l	99
20) Methylcyclohexane	6.740	83	17274	1.757	ug/l	98
21) 2,2-Dichloropropane	4.641	77	20379	2.003	ug/l	99
22) cis-1,2-Dichloroethene	4.647	96	14565	2.082	ug/l	99
23) Diethyl Ether	2.371	59	9050	2.092	ug/l	96
24) tert-Butyl Alcohol	3.197	59	10601	20.303	ug/l	100
25) Methyl tert-Butyl Ether	3.361	73	31377	2.117	ug/l	99
26) Bromochloromethane	4.956	128	6000	2.054	ug/l	93
27) Chloroform	5.072	83	25113	2.060	ug/l	99
28) 1,1,1-Trichloroethane	5.294	97	20838	2.014	ug/l	99
29) 1,1-Dichloropropene	5.506	75	20417	2.130	ug/l	97
30) Carbon Tetrachloride	5.499	117	16009	1.922	ug/l	95
31) Isopropyl Ether	3.995	45	38467	2.133	ug/l	97
32) Ethyl-t-butyl ether	4.506	59	35330	2.117	ug/l	98
33) Tert-Amyl methyl ether	5.943	73	30771	2.124	ug/l	99
34) Propionitrile	4.782	54	5569	10.376	ug/l #	92
35) Benzene	5.753	78	55862	2.169	ug/l	94
36) 1,2-Dichloroethane	5.779	62	17638	2.204	ug/l	100
37) Trichloroethene	6.525	130	11954	1.819	ug/l	99
38) 1,2-Dichloropropane	6.779	63	11421	1.895	ug/l	99
39) Methacrylonitrile	4.972	41	4514	1.892	ug/l	95
40) Methyl acrylate	4.850	55	6649	1.907	ug/l #	97
41) Tetrahydrofuran	5.062	42	5866	4.674	ug/l	90
42) 1-Chlorobutane	5.438	56	26277	2.062	ug/l	96
43) Dibromomethane	6.908	93	5740	1.838	ug/l	96
44) Bromodichloromethane	7.097	83	12690	1.802	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063521.D
Acq On : 17 Jul 2025 12:43
Operator : MD/SY
Sample : VU0717WBS01
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 04:10:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.798	43	31264	9.714	ug/l	99
46) t-1,4-Dichloro-2-butene	10.824	75	4116m	3.407	ug/l	
47) Methyl methacrylate	6.969	69	9287	3.541	ug/l	92
48) Ethyl methacrylate	8.338	69	9397	1.877	ug/l	96
49) Toluene	7.962	92	26503	1.885	ug/l	97
50) t-1,3-Dichloropropene	8.207	75	9090	1.645	ug/l	98
51) cis-1,3-Dichloropropene	7.602	75	12550	1.692	ug/l	96
52) 1,1,2-Trichloroethane	8.393	97	8229	1.957	ug/l	95
53) 1,3-Dichloropropane	8.570	76	14200	1.956	ug/l	99
54) 2-Hexanone	8.692	43	21798	10.196	ug/l	99
55) Dibromochloromethane	8.801	129	7818	1.760	ug/l	100
56) 1,2-Dibromoethane	8.917	107	7165	1.904	ug/l	100
58) Tetrachloroethene	8.541	164	11402	1.896	ug/l	98
59) Chlorobenzene	9.441	112	30941	1.916	ug/l	97
60) 1,1,1,2-Tetrachloroethane	9.525	131	8917	1.717	ug/l	92
61) Pentachloroethane	11.419	117	6375	1.737	ug/l	88
62) Hexachloroethane	12.467	117	5976	1.644	ug/l	99
63) Ethyl Benzene	9.563	91	53621	1.929	ug/l	99
64) m/p-Xylenes	9.686	106	40731	3.770	ug/l	98
65) o-Xylene	10.094	106	20319	1.957	ug/l	97
66) Styrene	10.110	104	31561	1.908	ug/l	98
67) Bromoform	10.284	173	3644	1.597	ug/l	99
69) Isopropylbenzene	10.477	105	48988	1.952	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.776	83	9968	1.948	ug/l	98
71) 1,2,3-Trichloropropane	10.814	75	7776m	1.871	ug/l	
72) Bromobenzene	10.776	156	12098	1.868	ug/l	92
73) n-propylbenzene	10.898	120	14781	1.956	ug/l	93
74) 2-Chlorotoluene	10.978	126	13064	1.957	ug/l	91
75) 1,3,5-Trimethylbenzene	11.081	105	46460	1.938	ug/l	100
76) 4-Chlorotoluene	11.091	126	13377	1.973	ug/l	97
77) tert-Butylbenzene	11.412	119	43549	1.901	ug/l	96
78) 1,2,4-Trimethylbenzene	11.460	105	46303	1.947	ug/l	96
79) sec-Butylbenzene	11.634	105	61626	1.994	ug/l	98
80) Nitrobenzene	13.219	77	968m	11.740	ug/l	
81) p-Isopropyltoluene	11.785	119	50943	1.975	ug/l	99
82) 1,3-Dichlorobenzene	11.740	146	24826	1.916	ug/l	99
83) 1,4-Dichlorobenzene	11.830	146	25218	1.944	ug/l	98
84) n-Butylbenzene	12.203	91	48117	2.011	ug/l	98
85) 1,2-Dichlorobenzene	12.206	146	23502	1.930	ug/l	97
86) 1,2-Dibromo-3-Chloropr...	12.988	75	1114	1.706	ug/l	94
87) 1,2,4-Trichlorobenzene	13.837	180	14007	1.850	ug/l	98
88) Hexachlorobutadiene	14.013	225	8260	1.921	ug/l	97
89) Naphthalene	14.087	128	24449	1.802	ug/l	98
90) 1,2,3-Trichlorobenzene	14.325	180	12843	1.836	ug/l	97

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

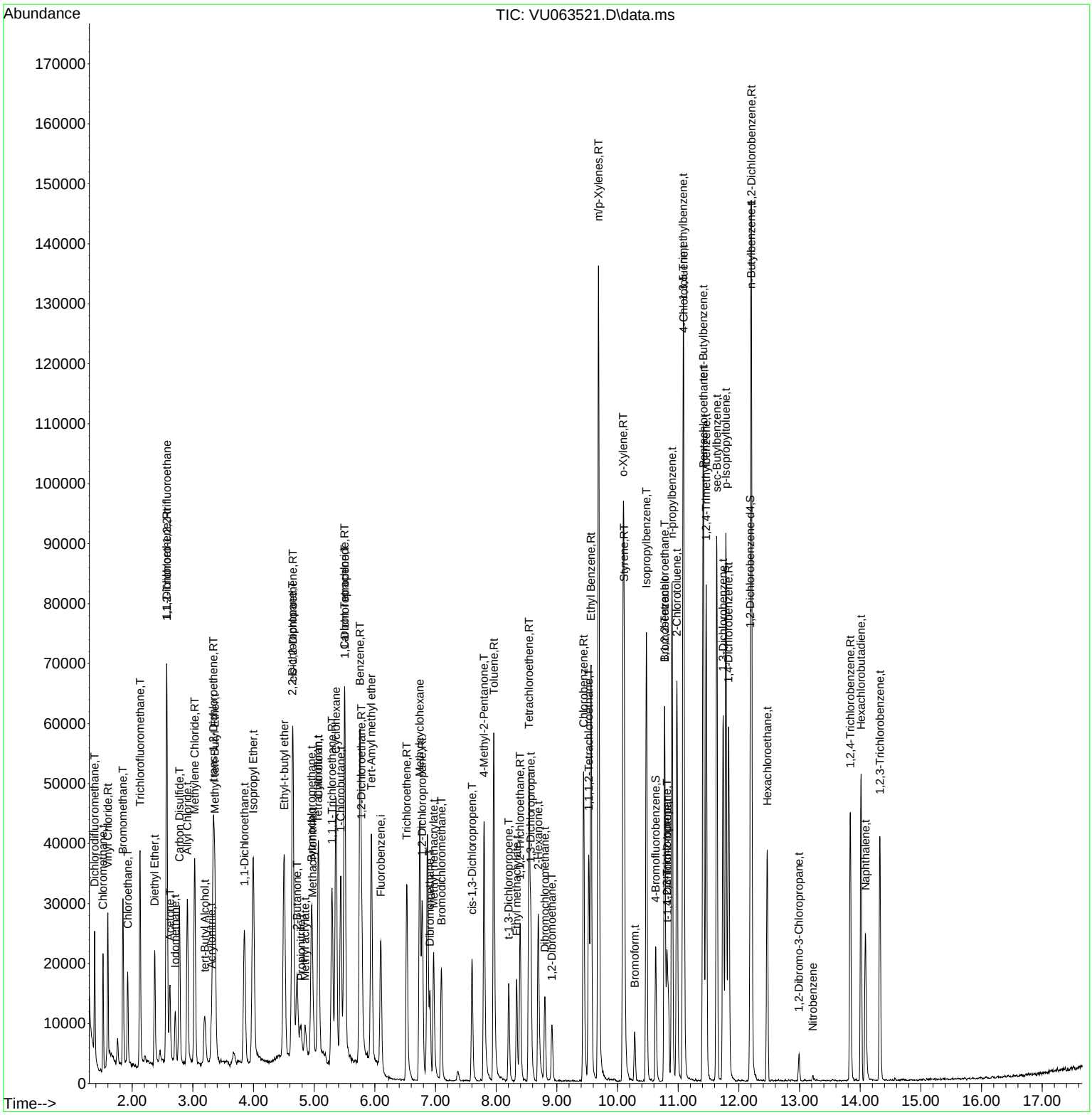
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063521.D
Acq On : 17 Jul 2025 12:43
Operator : MD/SY
Sample : VU0717WBS01
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

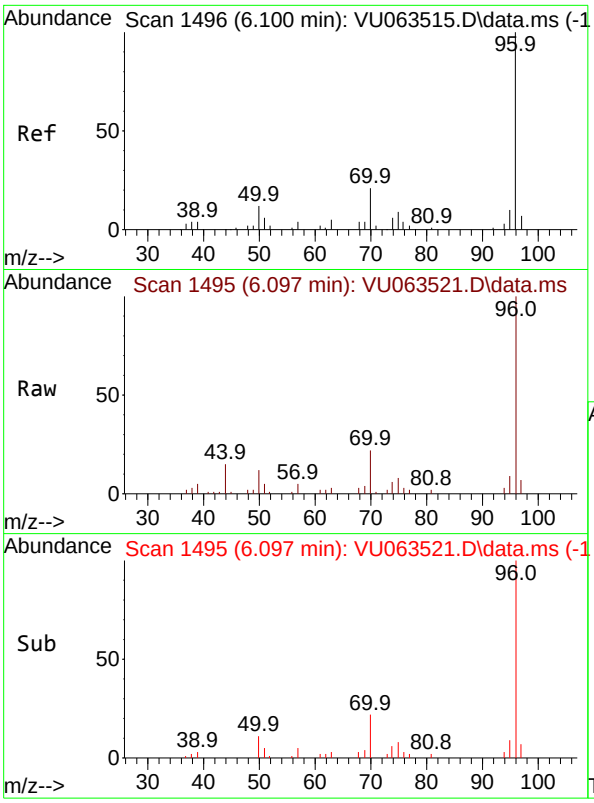
Quant Time: Jul 18 04:10:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

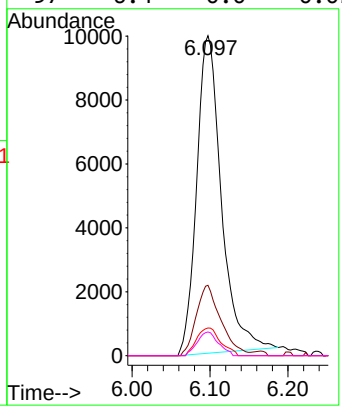




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.097 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 96 Resp: 2186

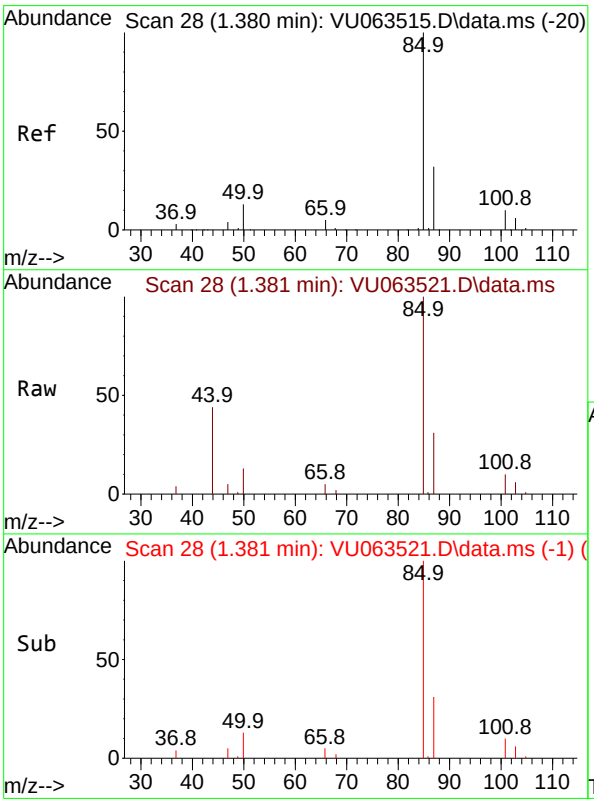
Ion	Ratio	Lower	Upper
96	100		
70	20.9	15.0	22.4
95	8.5	7.4	11.0
97	6.4	0.0	0.0#



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

Manual Integrations APPROVED

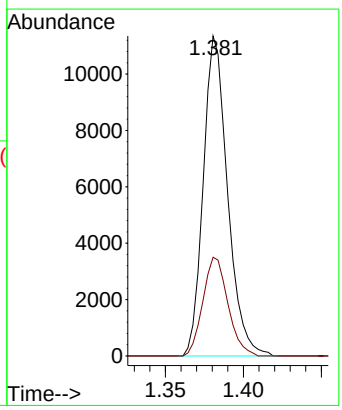
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

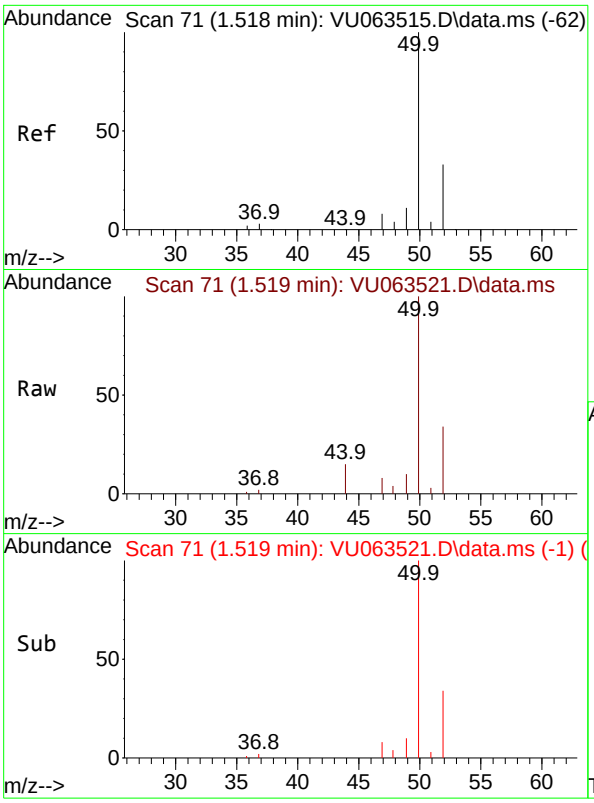


#2
Dichlorodifluoromethane
Concen: 1.905 ug/l
RT: 1.381 min Scan# 28
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 85 Resp: 12281

Ion	Ratio	Lower	Upper
85	100		
87	30.9	16.0	47.9

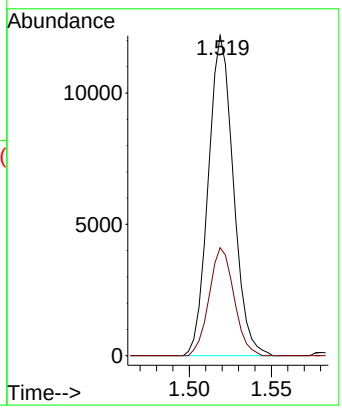




#3
Chloromethane
Concen: 2.157 ug/l
RT: 1.519 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 50 Resp: 1292

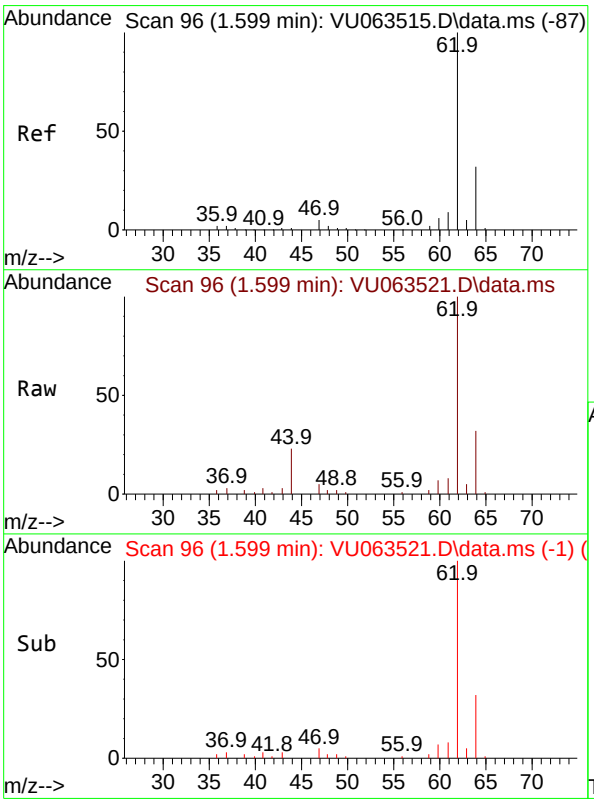
Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.3	39.5



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

Manual Integrations
APPROVED

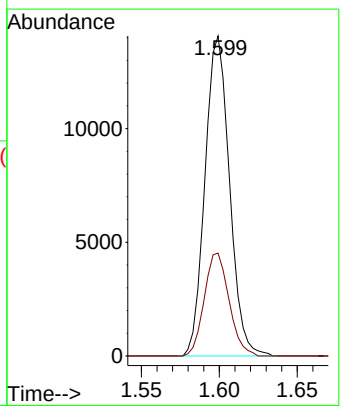
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

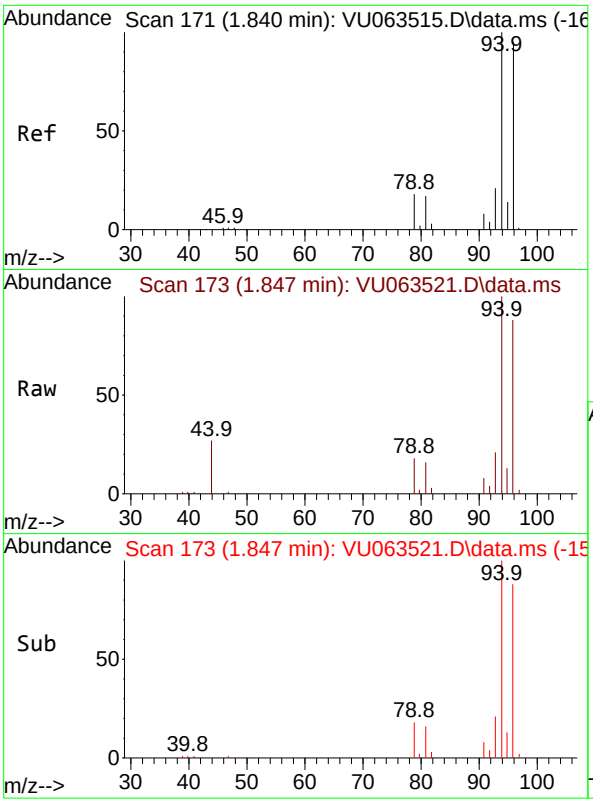


#4
Vinyl Chloride
Concen: 2.015 ug/l
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 62 Resp: 15376

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.7	38.5

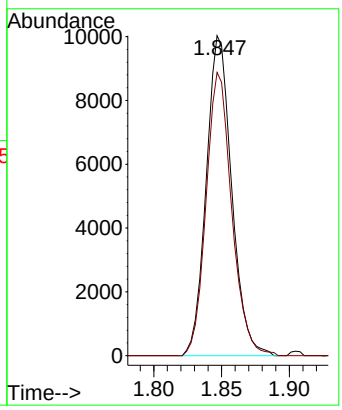




#5
Bromomethane
Concen: 2.278 ug/l
RT: 1.847 min Scan# 1
Delta R.T. 0.007 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 94 Resp: 1311

Ion	Ratio	Lower	Upper
94	100		
96	88.5	75.8	113.6



Instrument :
MSVOA_U
ClientSampleId :
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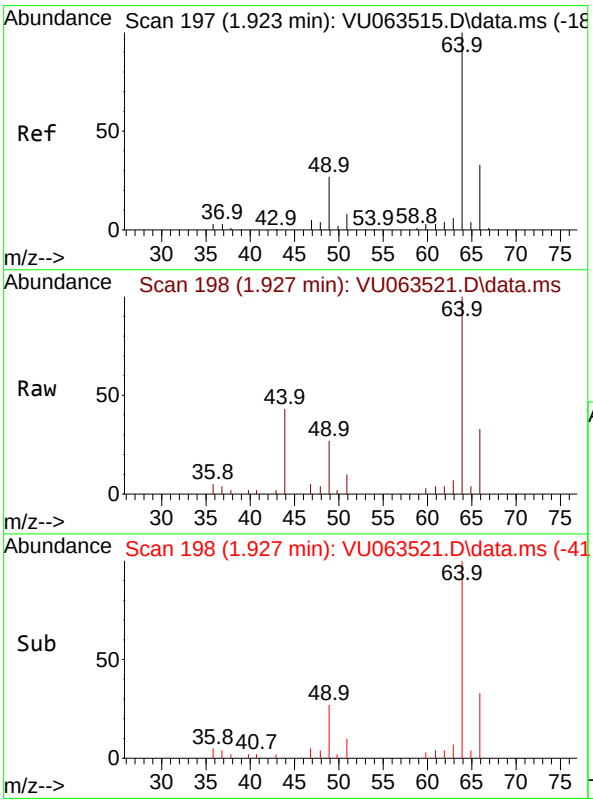
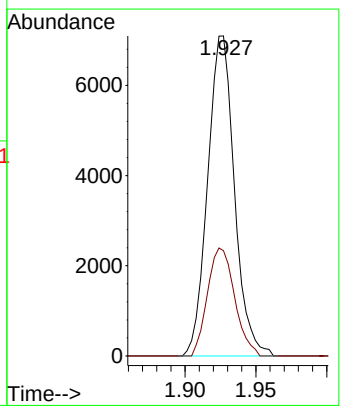
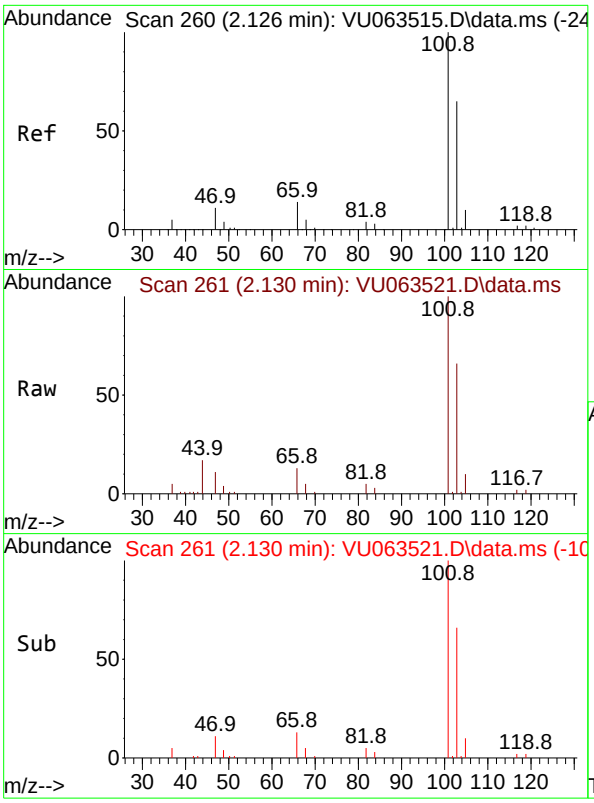


#6
Chloroethane
Concen: 2.027 ug/l
RT: 1.927 min Scan# 198
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 64 Resp: 9342

Ion	Ratio	Lower	Upper
64	100		
66	32.9	26.2	39.4





#7
Trichlorofluoromethane
Concen: 2.065 ug/l
RT: 2.130 min Scan# 2
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:101 Resp: 2263

Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.2	78.4

Instrument :
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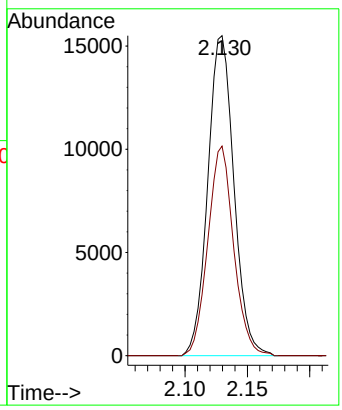
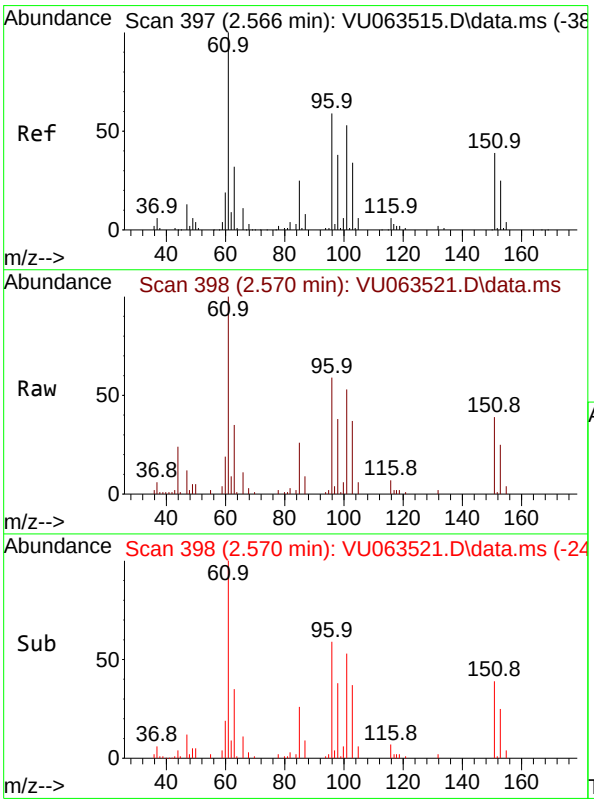
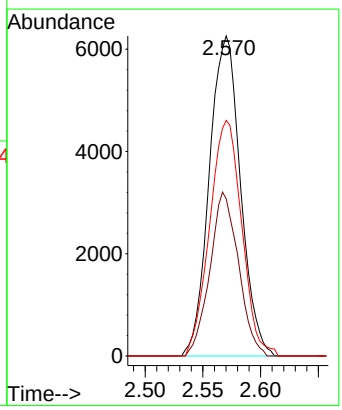


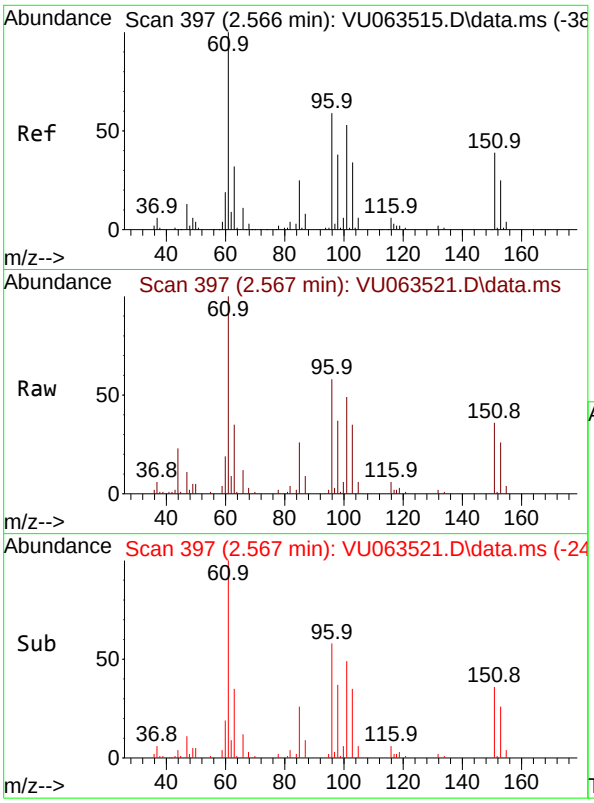


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.048 ug/l
RT: 2.570 min Scan# 398
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:101 Resp: 11730

Ion	Ratio	Lower	Upper
101	100		
85	47.0	37.8	56.6
151	75.9	59.2	88.8

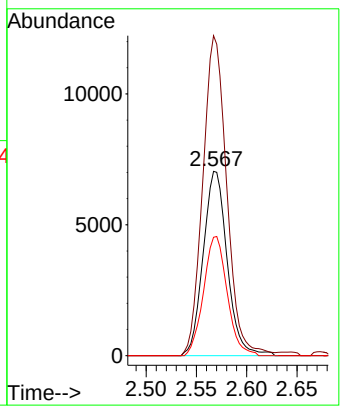




#9
1,1-Dichloroethene
Concen: 2.065 ug/l
RT: 2.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 96 Resp: 1172

Ion	Ratio	Lower	Upper
96	100		
61	173.6	0.0	504.3
98	64.2	0.0	126.8



Instrument :
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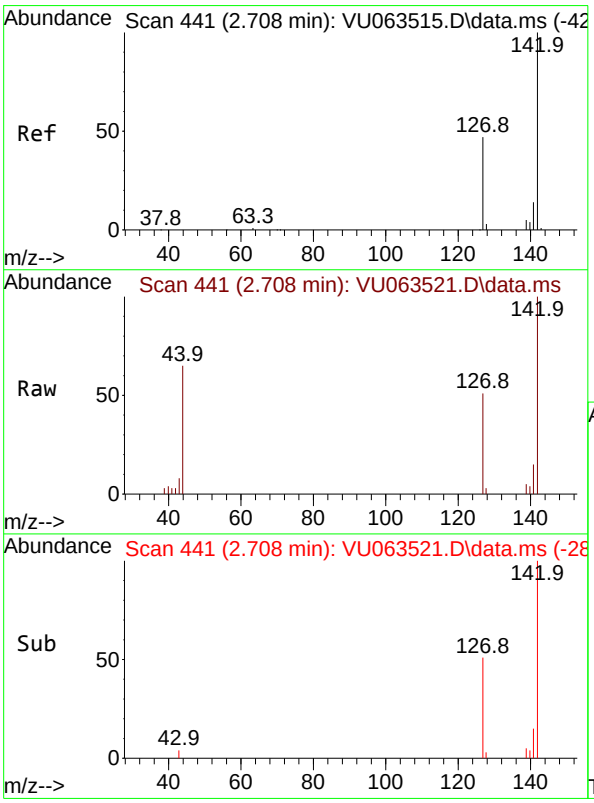
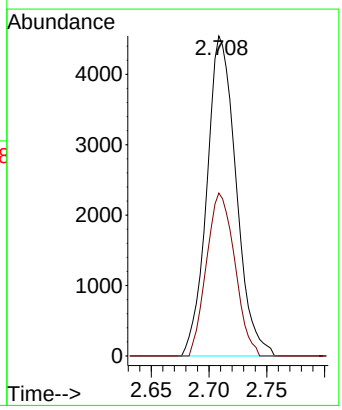
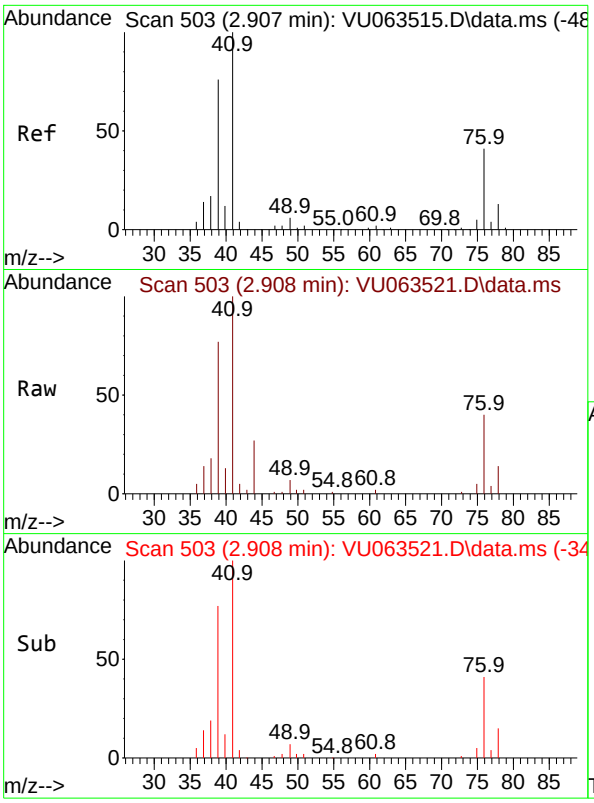


#10
Iodomethane
Concen: 1.773 ug/l
RT: 2.708 min Scan# 441
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:142 Resp: 8006

Ion	Ratio	Lower	Upper
142	100		
127	49.2	37.9	56.9

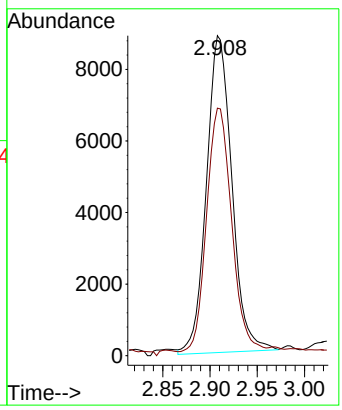




#11
Allyl Chloride
Concen: 2.021 ug/l
RT: 2.908 min Scan# 5
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 41 Resp: 1657

Ion	Ratio	Lower	Upper
41	100		
39	75.4	61.5	92.3



Instrument :
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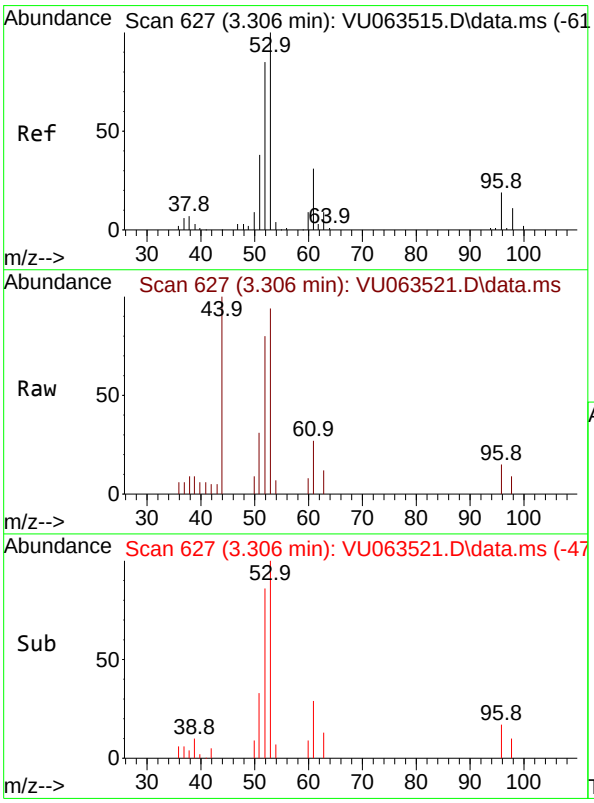
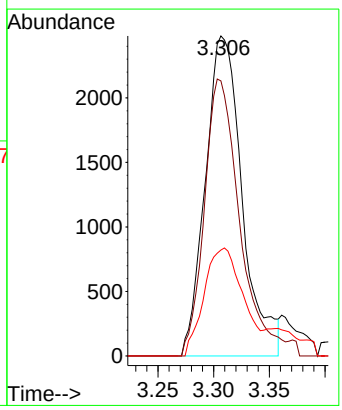
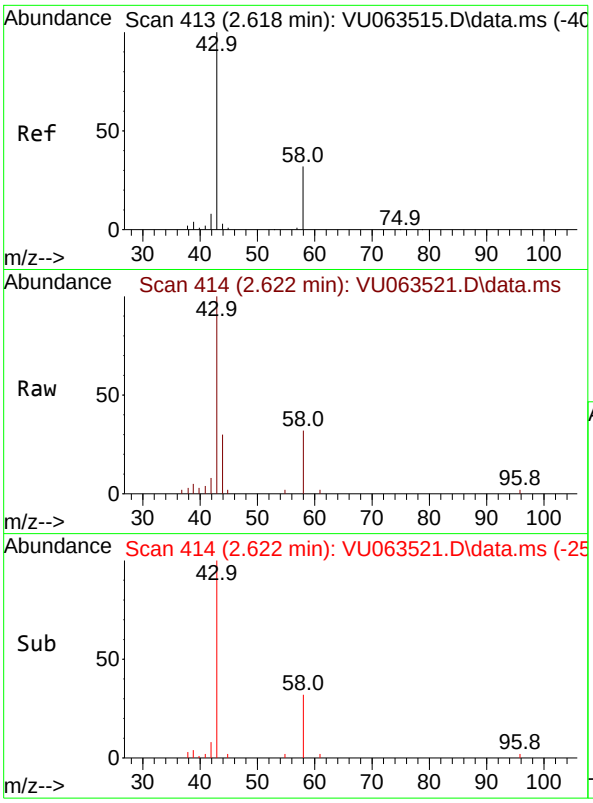


#12
Acrylonitrile
Concen: 4.023 ug/l
RT: 3.306 min Scan# 627
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 53 Resp: 5711

Ion	Ratio	Lower	Upper
53	100		
52	82.6	64.3	96.5
51	36.1	27.8	41.8





#13
Acetone
Concen: 12.835 ug/l
RT: 2.622 min Scan# 41
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 43 Resp: 1459

Ion	Ratio	Lower	Upper
43	100		
58	32.7	25.4	38.0

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

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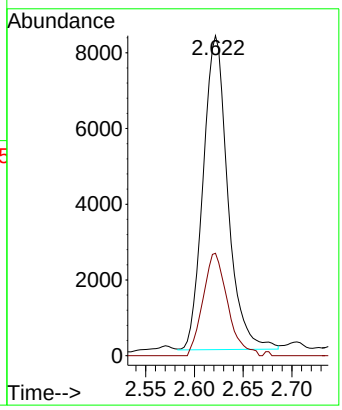
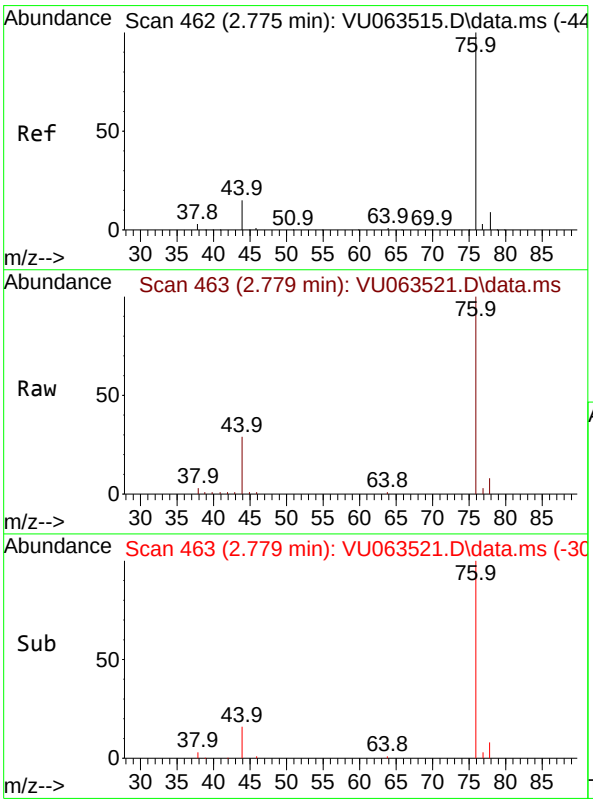
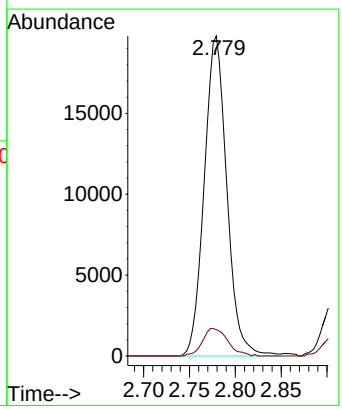


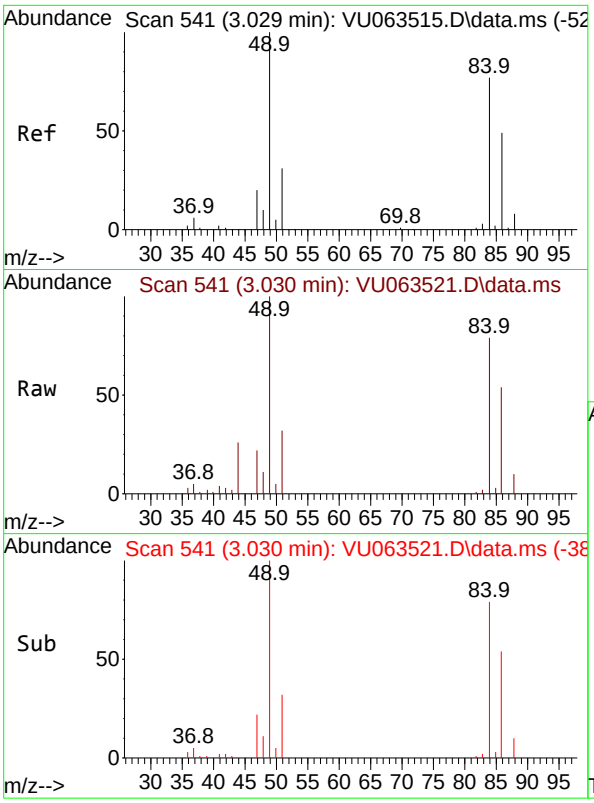


#14
Carbon Disulfide
Concen: 1.847 ug/l
RT: 2.779 min Scan# 463
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 76 Resp: 33865

Ion	Ratio	Lower	Upper
76	100		
78	8.2	7.0	10.6

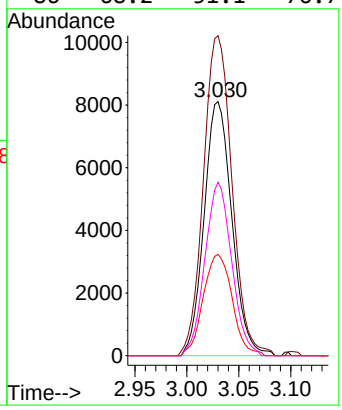




#15
Methylene Chloride
Concen: 2.262 ug/l
RT: 3.030 min Scan# 54
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 84 Resp: 1511

Ion	Ratio	Lower	Upper
84	100		
49	125.9	103.8	155.8
51	39.9	0.0	80.4
86	68.2	51.1	76.7



Instrument :
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ClientSampleId :
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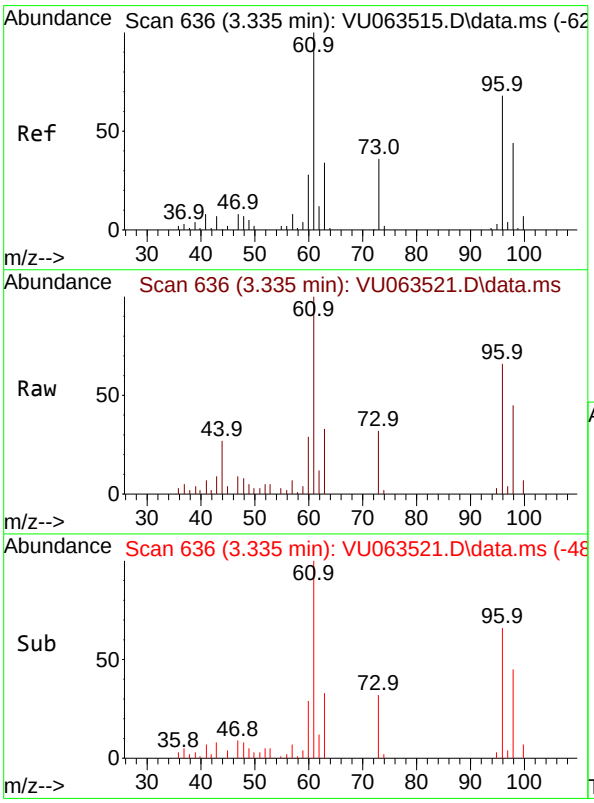
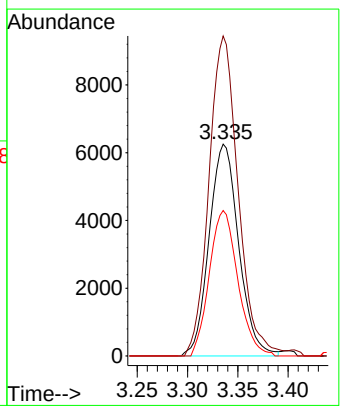
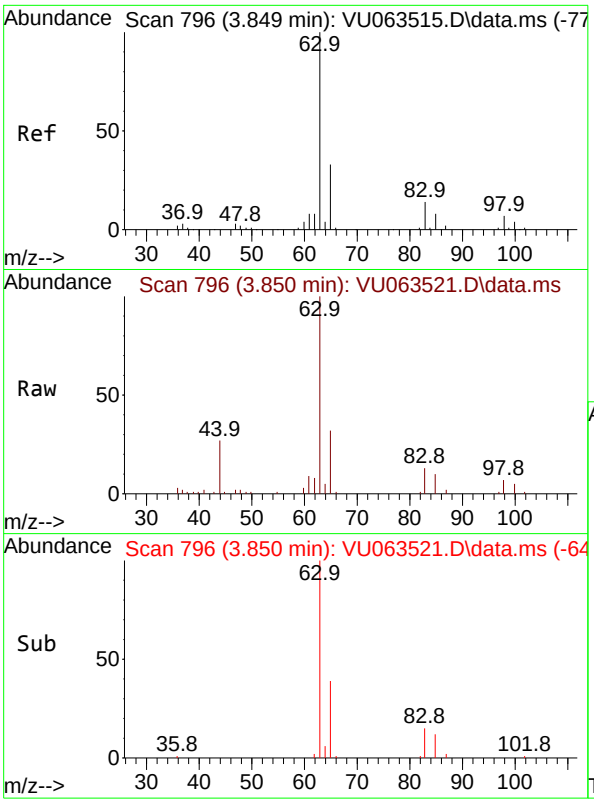


#16
trans-1,2-Dichloroethene
Concen: 1.986 ug/l
RT: 3.335 min Scan# 636
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 96 Resp: 12801

Ion	Ratio	Lower	Upper
96	100		
61	151.1	117.2	175.8
98	68.7	51.4	77.2

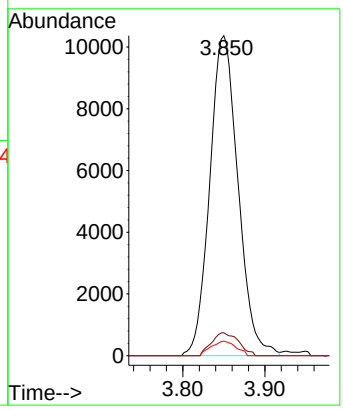




#17
1,1-Dichloroethane
Concen: 2.081 ug/l
RT: 3.850 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 63 Resp: 2486

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.4	10.2
100	4.6	2.1	6.2



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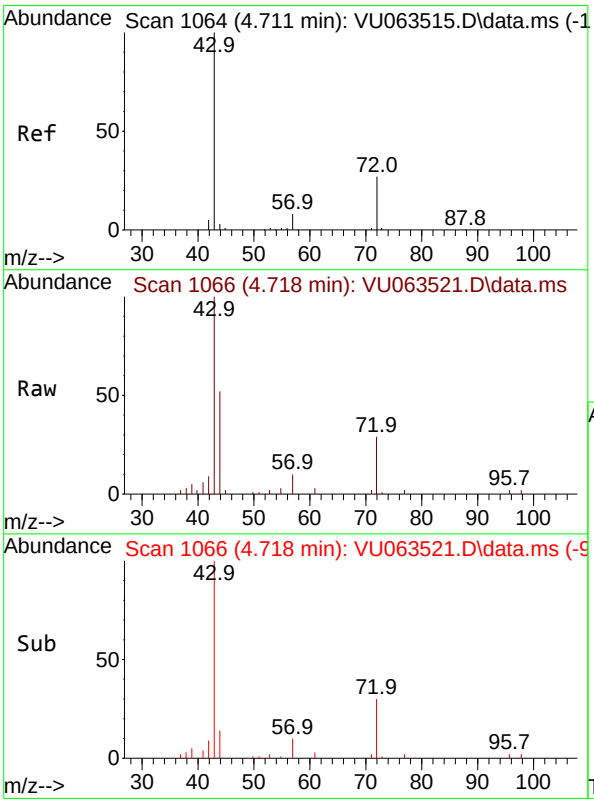
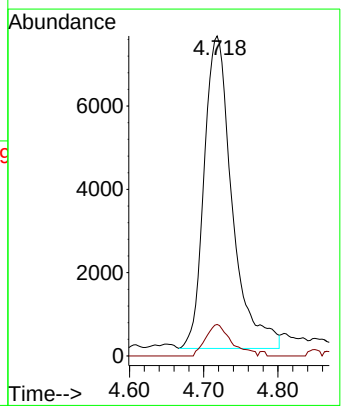
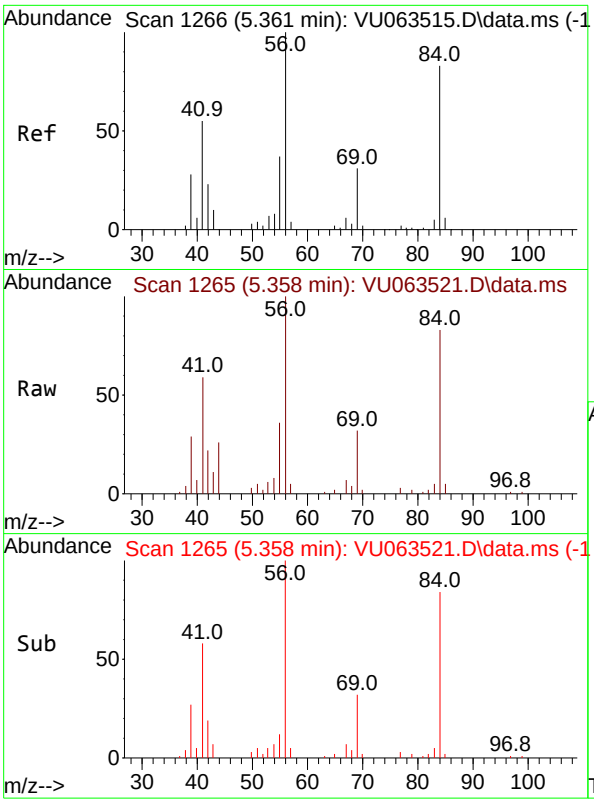


#18
2-Butanone
Concen: 11.163 ug/l
RT: 4.718 min Scan# 1066
Delta R.T. 0.007 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 43 Resp: 19663

Ion	Ratio	Lower	Upper
43	100		
57	10.1	0.0	16.4

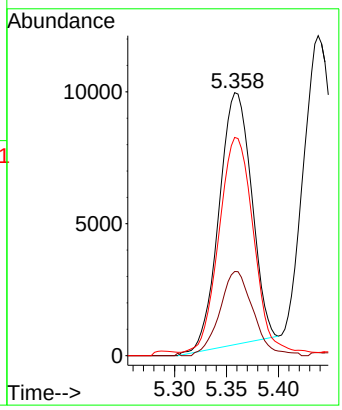




#19
Cyclohexane
Concen: 2.056 ug/l
RT: 5.358 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 56 Resp: 2080

Ion	Ratio	Lower	Upper
56	100		
69	34.4	26.6	39.8
84	89.8	71.0	106.4



Instrument :
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ClientSampleId :
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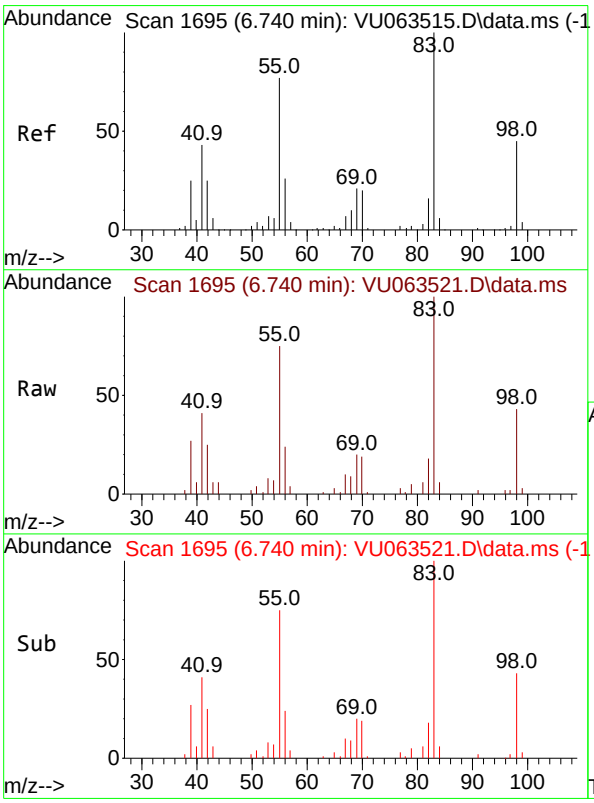
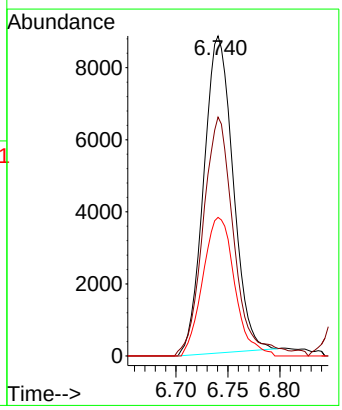
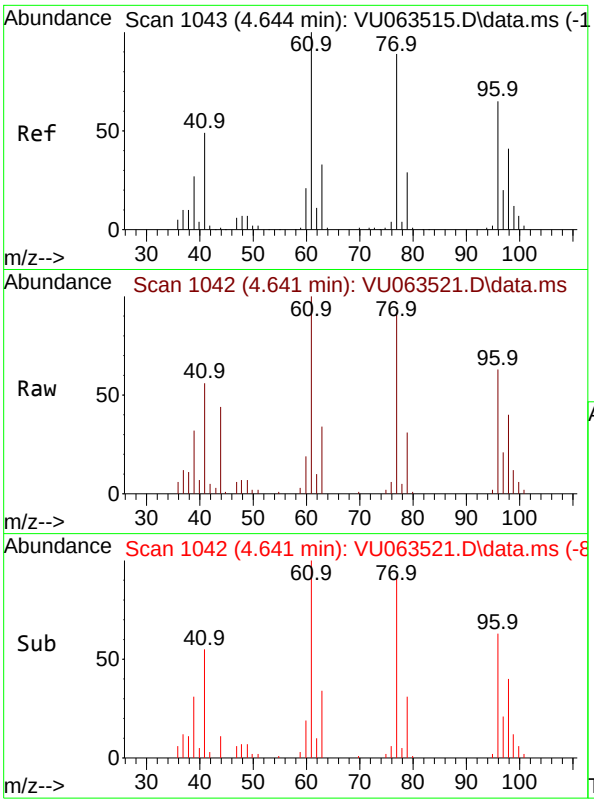


#20
Methylcyclohexane
Concen: 1.757 ug/l
RT: 6.740 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 83 Resp: 17274

Ion	Ratio	Lower	Upper
83	100		
55	76.1	60.6	90.8
98	47.5	35.8	53.8

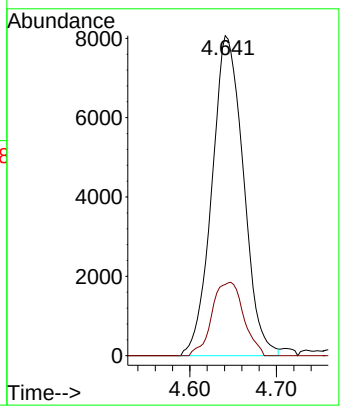




#21
2,2-Dichloropropane
Concen: 2.003 ug/l
RT: 4.641 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 77 Resp: 2037

Ion	Ratio	Lower	Upper
77	100		
97	23.0	17.8	26.8



Instrument :
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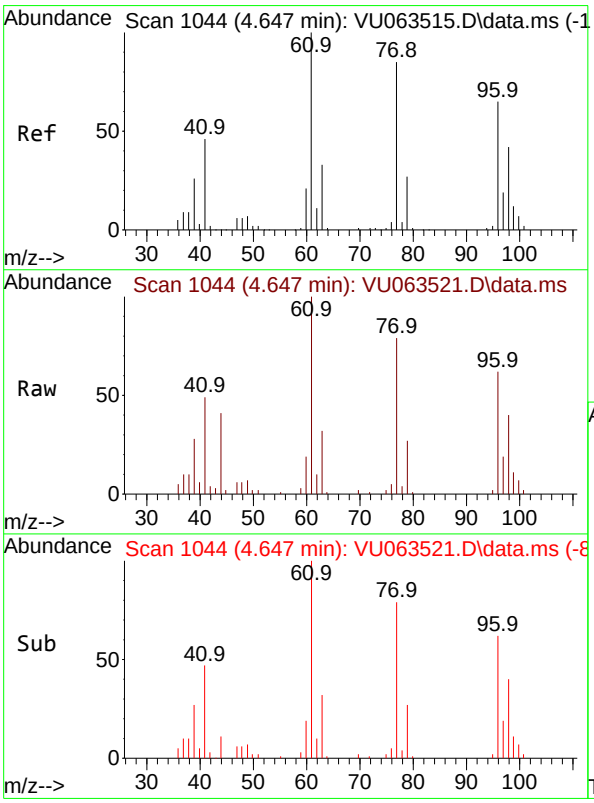
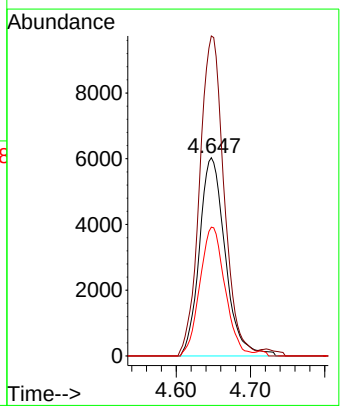
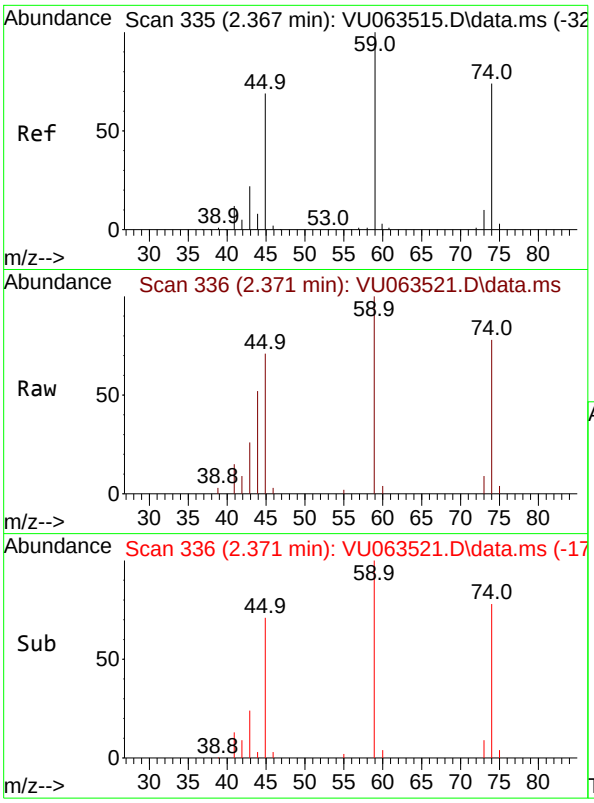


#22
cis-1,2-Dichloroethene
Concen: 2.082 ug/l
RT: 4.647 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 96 Resp: 14565

Ion	Ratio	Lower	Upper
96	100		
61	152.8	0.0	384.7
98	63.5	32.1	96.3

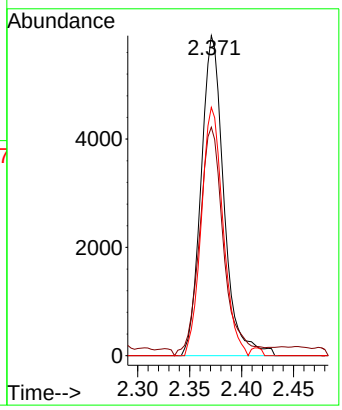




#23
Diethyl Ether
Concen: 2.092 ug/l
RT: 2.371 min Scan# 3
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 59 Resp: 905

Ion	Ratio	Lower	Upper
59	100		
45	75.7	55.1	82.7
74	73.5	58.2	87.4



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

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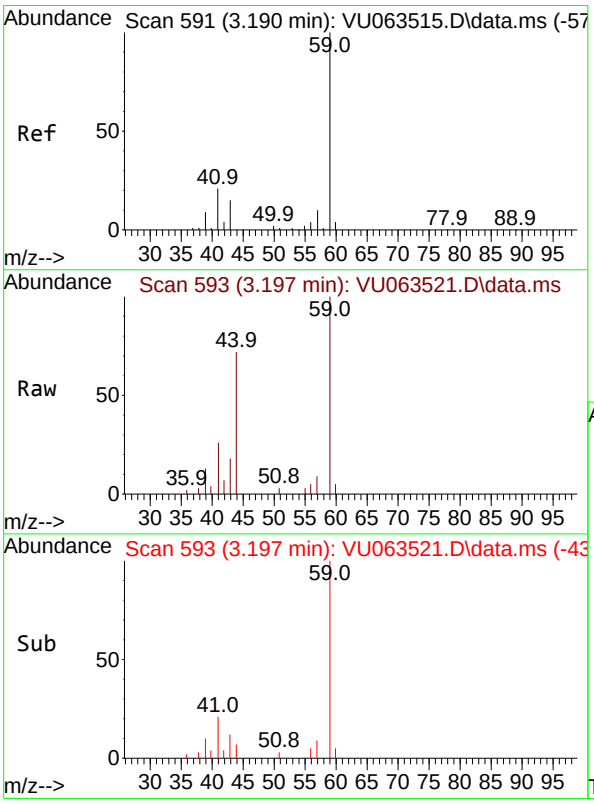
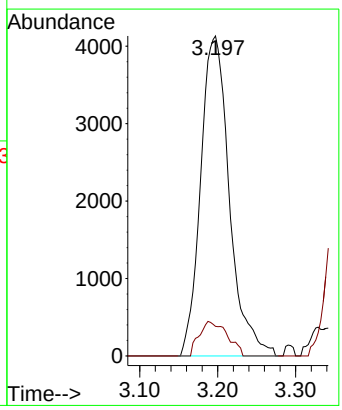
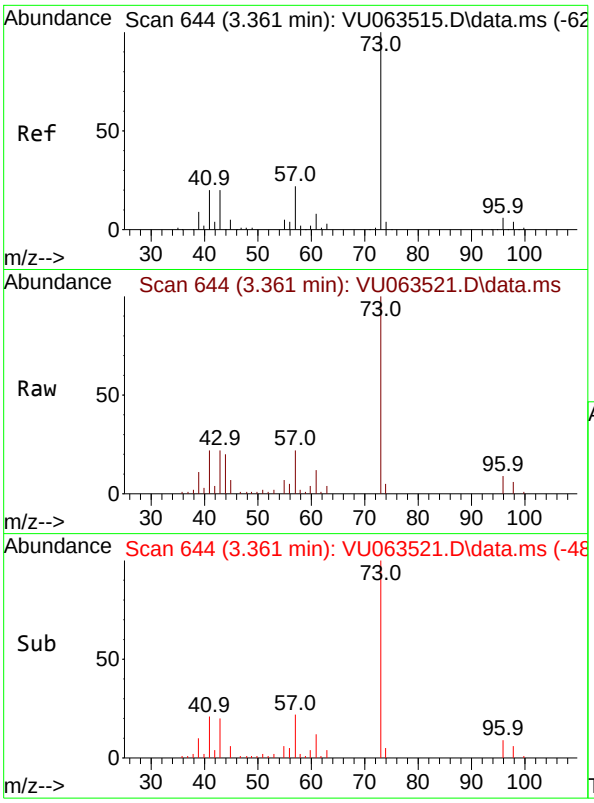


#24
tert-Butyl Alcohol
Concen: 20.303 ug/l
RT: 3.197 min Scan# 593
Delta R.T. 0.007 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 59 Resp: 10601

Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.6	12.8

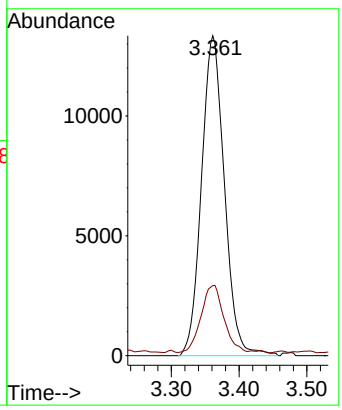




#25
Methyl tert-Butyl Ether
Concen: 2.117 ug/l
RT: 3.361 min Scan# 64
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 73 Resp: 3137

Ion	Ratio	Lower	Upper
73	100		
43	20.8	16.2	24.2



Instrument :
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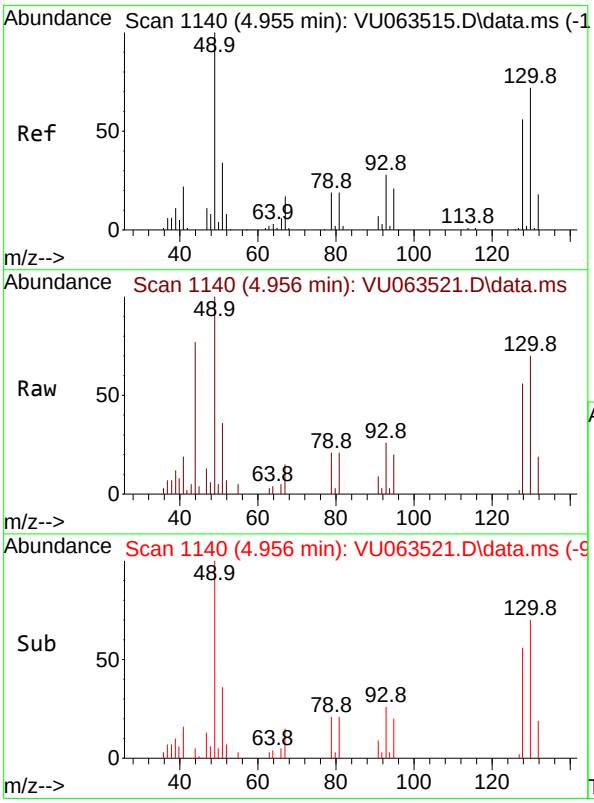
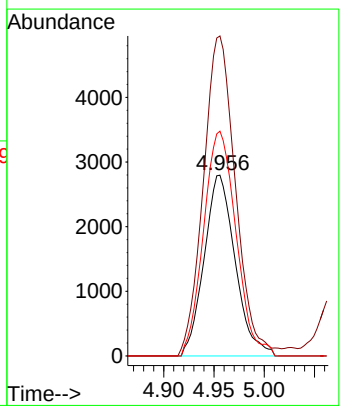
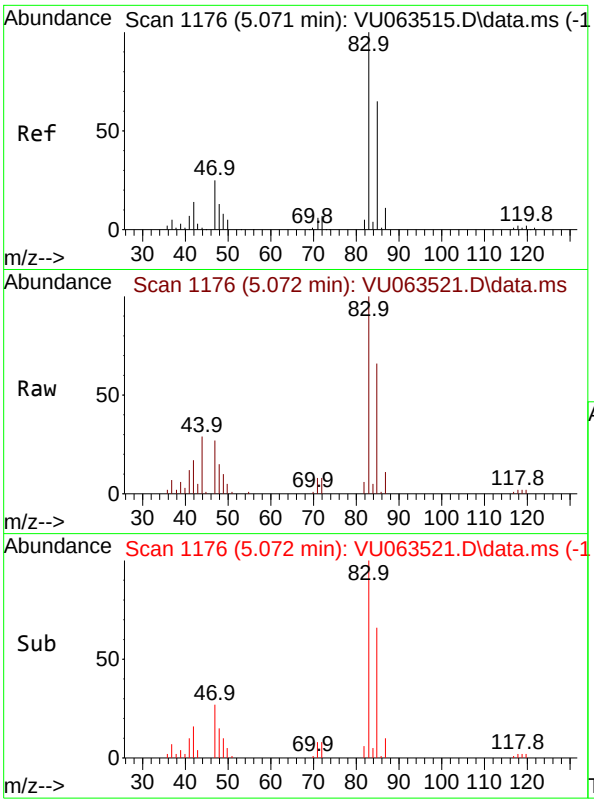


#26
Bromochloromethane
Concen: 2.054 ug/l
RT: 4.956 min Scan# 1140
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:128 Resp: 6000

Ion	Ratio	Lower	Upper
128	100		
49	183.5	0.0	340.8
130	130.4	100.5	150.7

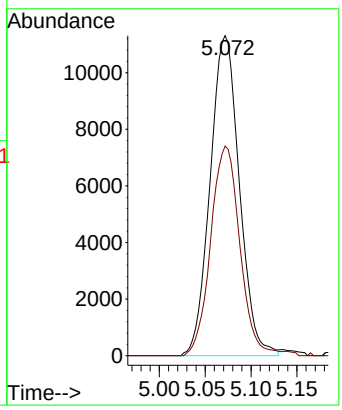




#27
Chloroform
Concen: 2.060 ug/l
RT: 5.072 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 83 Resp: 2511

Ion	Ratio	Lower	Upper
83	100		
85	65.5	0.0	130.0



Instrument :
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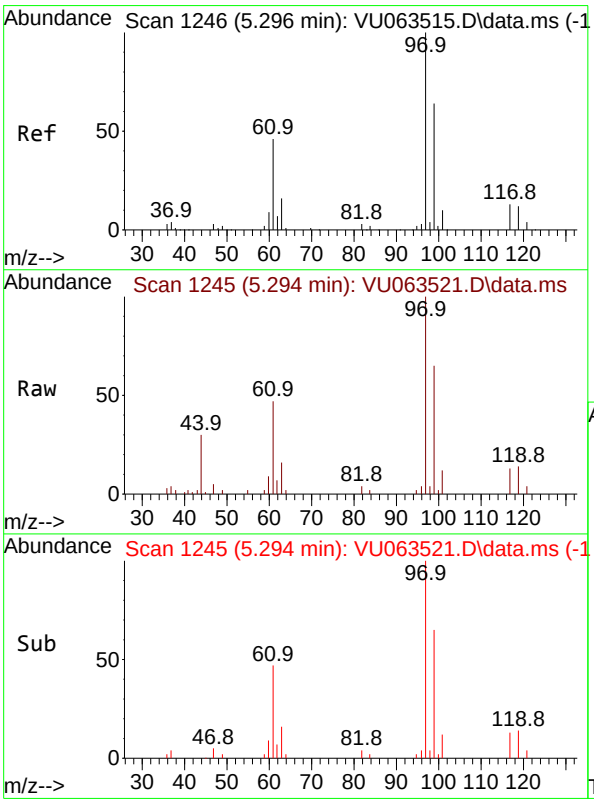
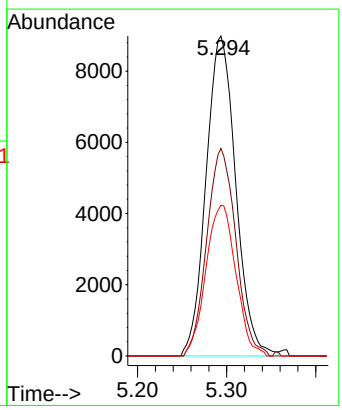
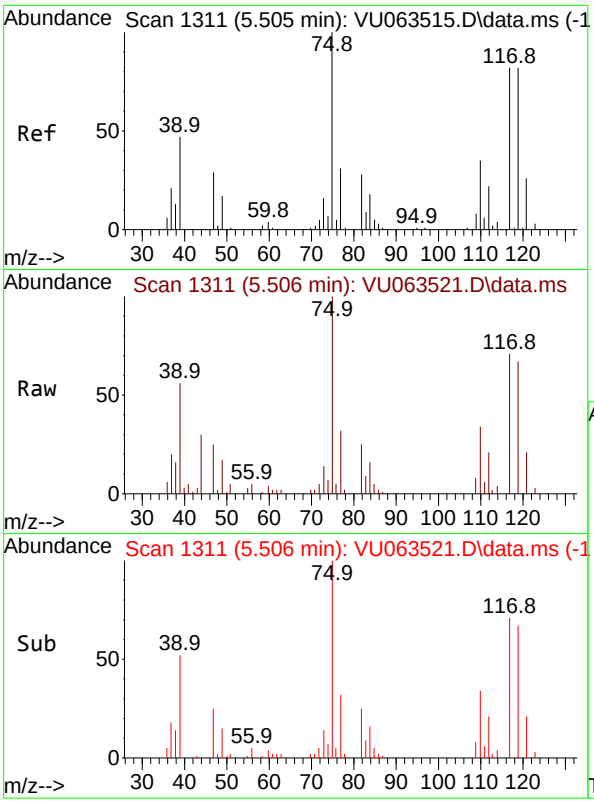


#28
1,1,1-Trichloroethane
Concen: 2.014 ug/l
RT: 5.294 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 97 Resp: 20838

Ion	Ratio	Lower	Upper
97	100		
99	63.5	31.8	95.3
61	47.6	23.3	69.9





#29
1,1-Dichloropropene
Concen: 2.130 ug/l
RT: 5.506 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 75 Resp: 2041

Ion	Ratio	Lower	Upper
75	100		
110	34.0	17.8	53.4
77	32.6	24.6	37.0

Instrument :
MSVOA_U
ClientSampleId :
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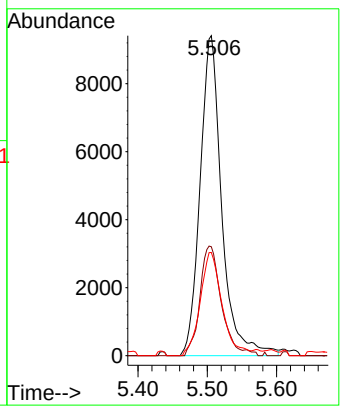
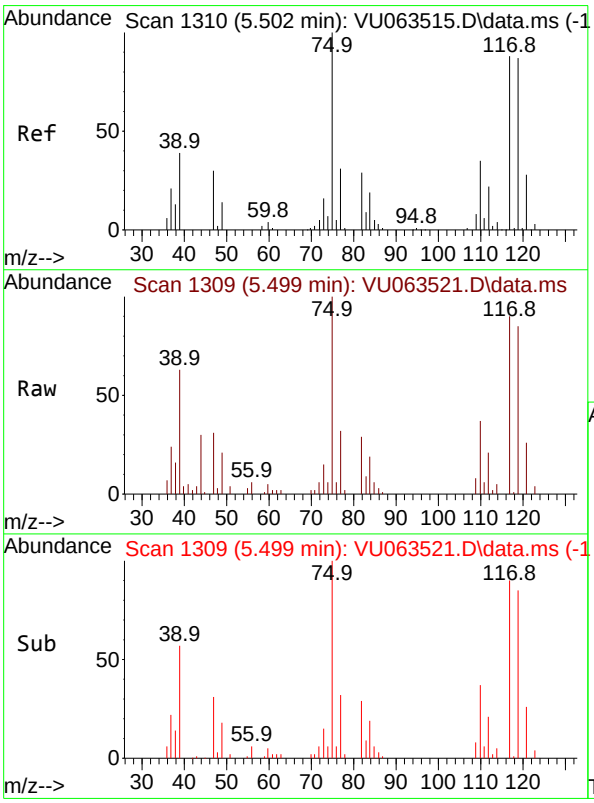
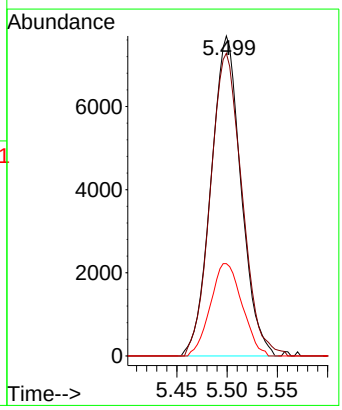


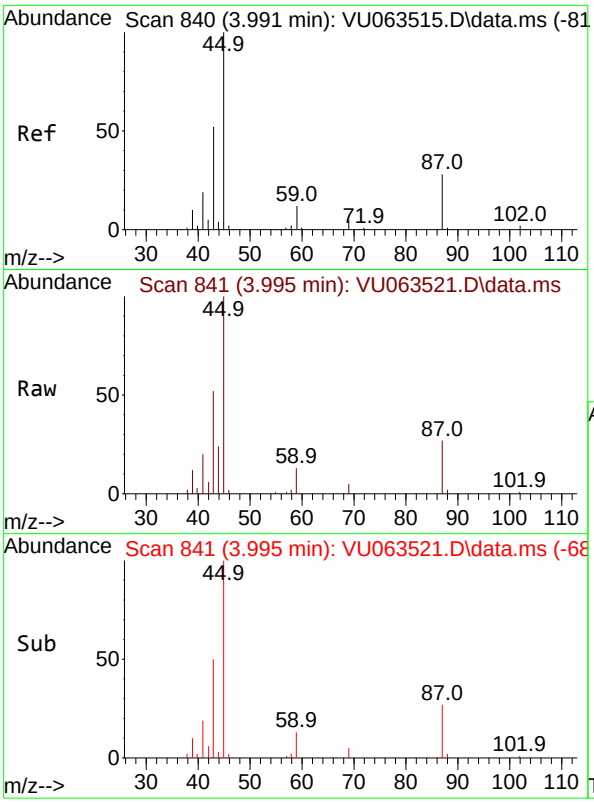


#30
Carbon Tetrachloride
Concen: 1.922 ug/l
RT: 5.499 min Scan# 1309
Delta R.T. -0.003 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:117 Resp: 16009

Ion	Ratio	Lower	Upper
117	100		
119	94.6	79.2	118.8
121	28.9	25.5	38.3





#31
Isopropyl Ether
Concen: 2.133 ug/l
RT: 3.995 min Scan# 84
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 45 Resp: 3846

Ion	Ratio	Lower	Upper
45	100		
43	49.5	25.7	77.0

Instrument :
MSVOA_U
ClientSampleId :
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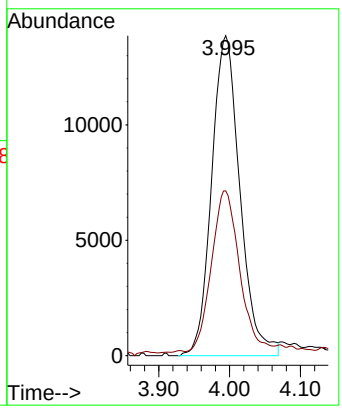
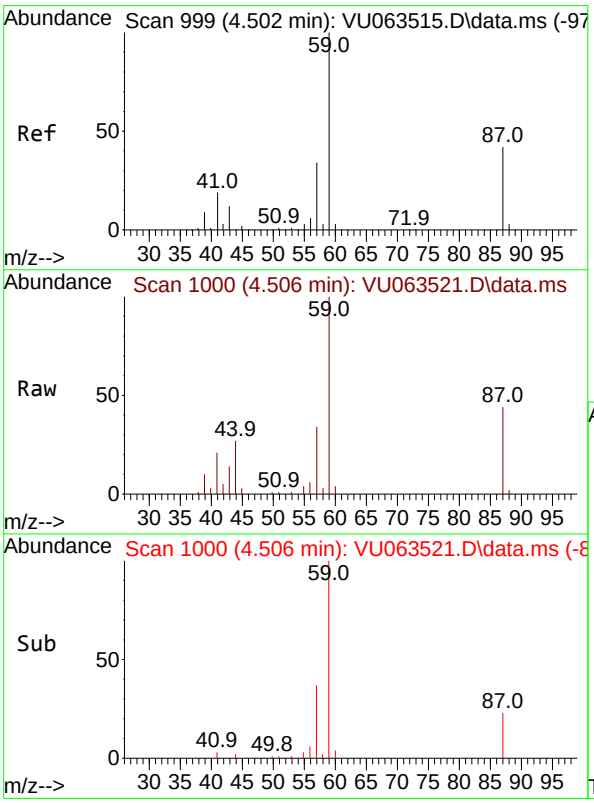
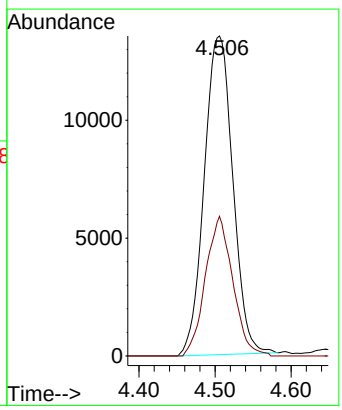


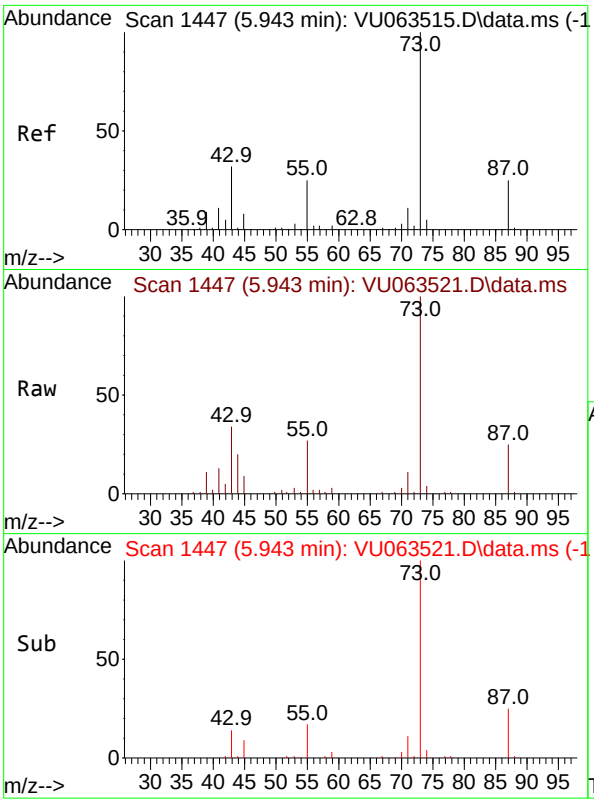


#32
Ethyl-t-butyl ether
Concen: 2.117 ug/l
RT: 4.506 min Scan# 1000
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 59 Resp: 35330

Ion	Ratio	Lower	Upper
59	100		
87	41.9	32.6	49.0





#33
Tert-Amyl methyl ether
Concen: 2.124 ug/l
RT: 5.943 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 73 Resp: 3077

Ion	Ratio	Lower	Upper
73	100		
87	25.2	19.4	29.2
71	10.9	8.9	13.3

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

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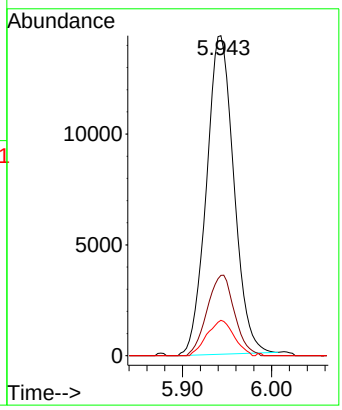
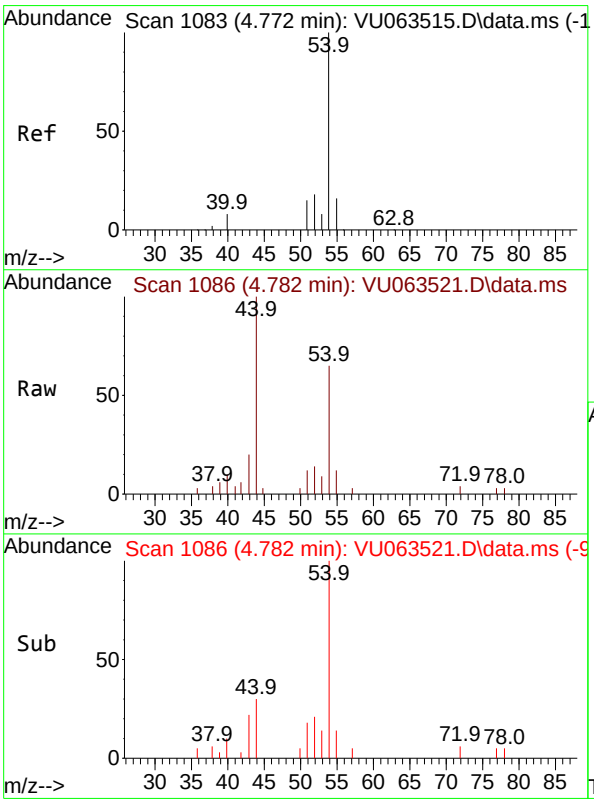
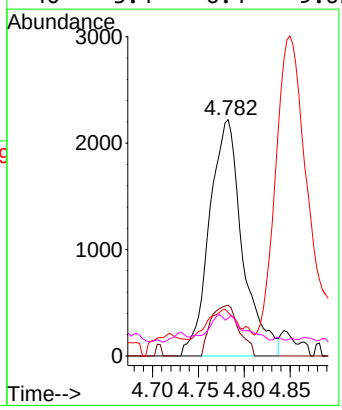


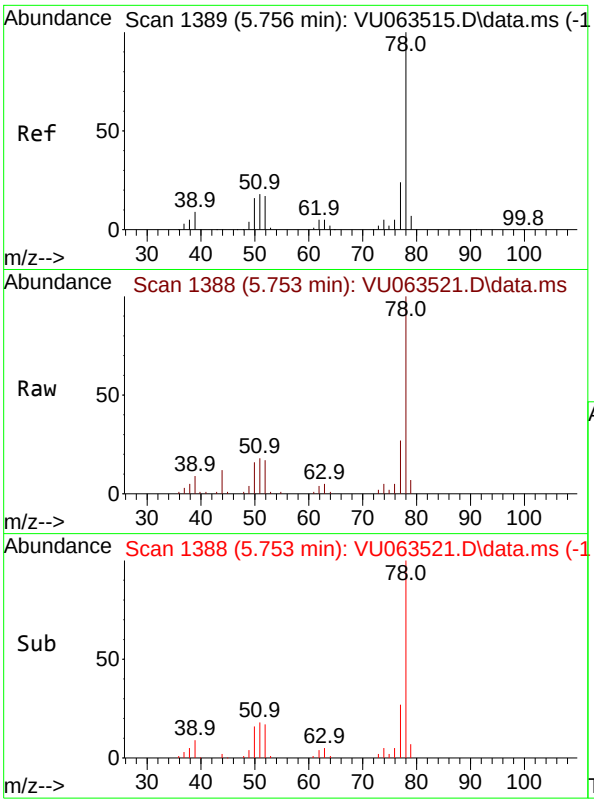


#34
Propionitrile
Concen: 10.376 ug/l
RT: 4.782 min Scan# 1086
Delta R.T. 0.010 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 54 Resp: 5569

Ion	Ratio	Lower	Upper
54	100		
52	18.3	17.0	25.4
55	13.2	13.6	20.4#
40	3.4	6.4	9.6#

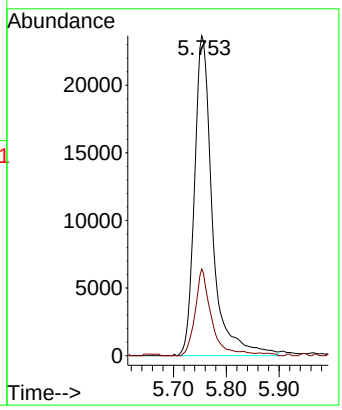




#35
Benzene
Concen: 2.169 ug/l
RT: 5.753 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 78 Resp: 5586

Ion	Ratio	Lower	Upper
78	100		
77	27.1	19.4	29.2



Instrument :
MSVOA_U
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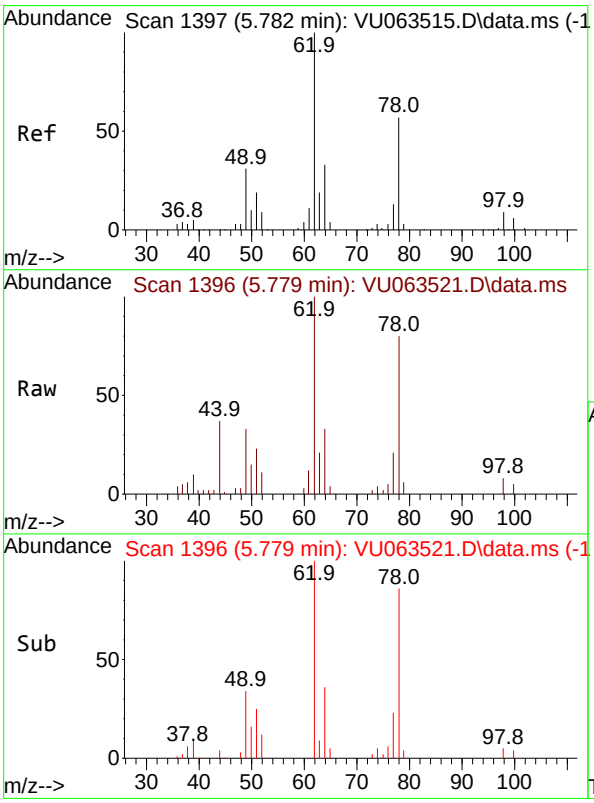
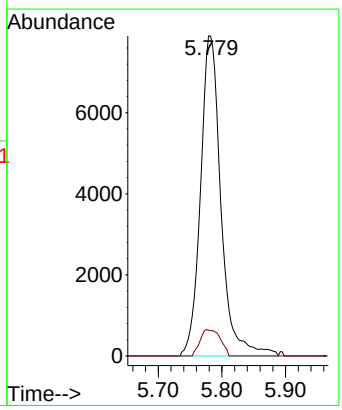
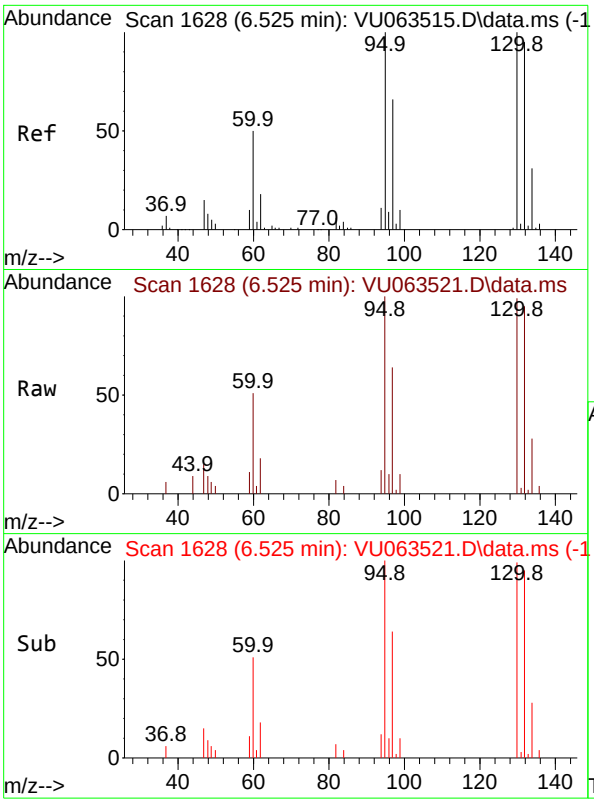


#36
1,2-Dichloroethane
Concen: 2.204 ug/l
RT: 5.779 min Scan# 1396
Delta R.T. -0.003 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 62 Resp: 17638

Ion	Ratio	Lower	Upper
62	100		
98	8.1	6.4	9.6





#37
Trichloroethene
Concen: 1.819 ug/l
RT: 6.525 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:130 Resp: 1195

Ion	Ratio	Lower	Upper
130	100		
95	101.2	80.3	120.5

Instrument :
MSVOA_U
ClientSampleId :
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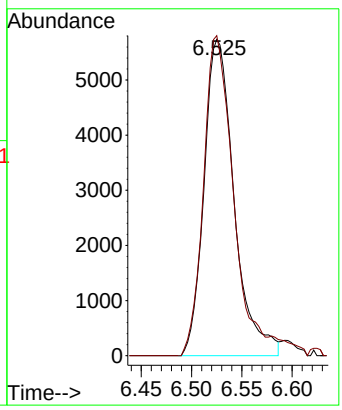
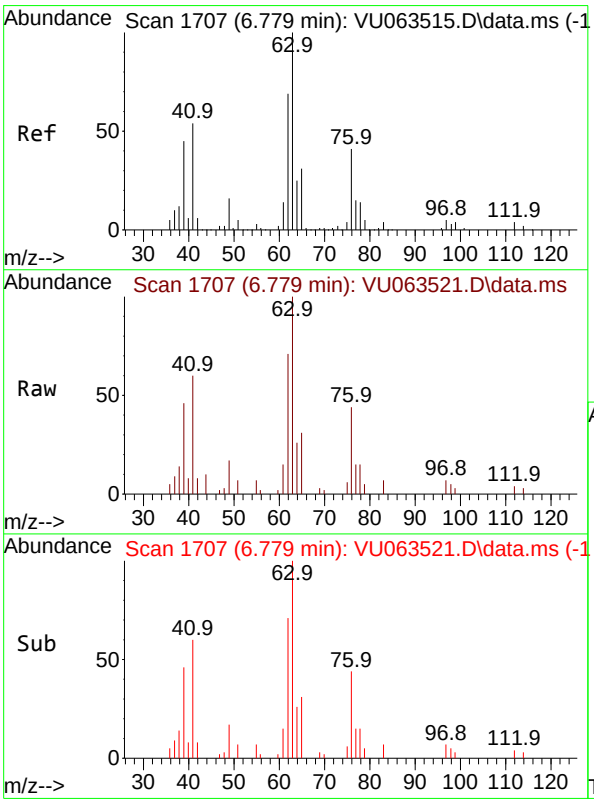
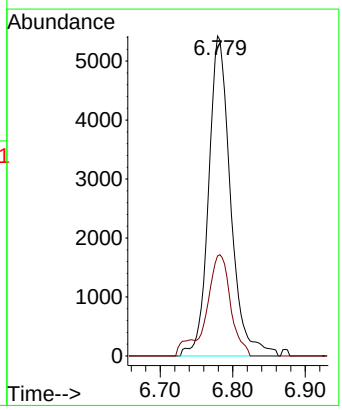


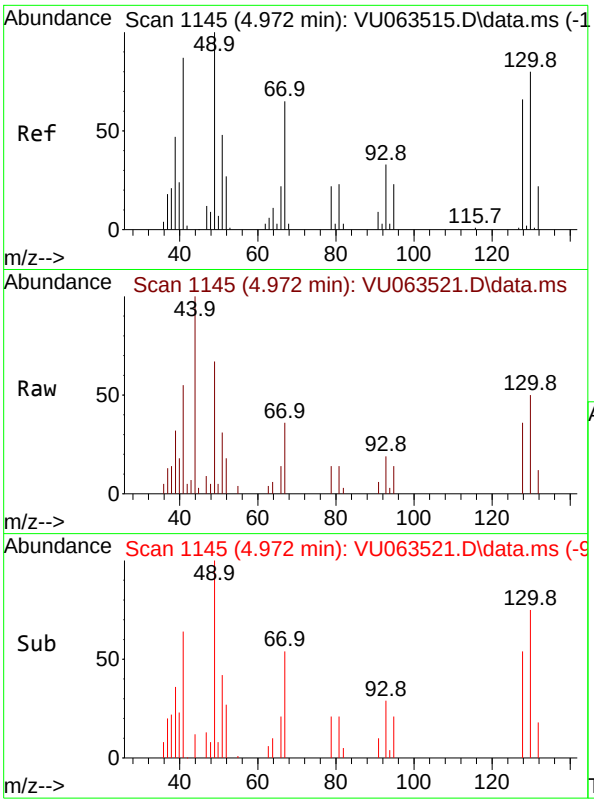


#38
1,2-Dichloropropane
Concen: 1.895 ug/l
RT: 6.779 min Scan# 1707
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 63 Resp: 11421

Ion	Ratio	Lower	Upper
63	100		
65	31.3	24.6	36.8

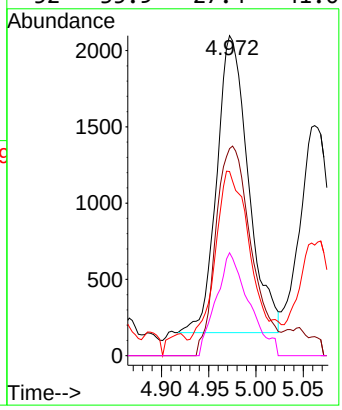




#39
Methacrylonitrile
Concen: 1.892 ug/l
RT: 4.972 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 41 Resp: 451

Ion	Ratio	Lower	Upper
41	100		
67	80.4	62.7	94.1
39	61.5	43.1	64.7
52	35.9	27.4	41.0



Instrument :
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ClientSampleId :
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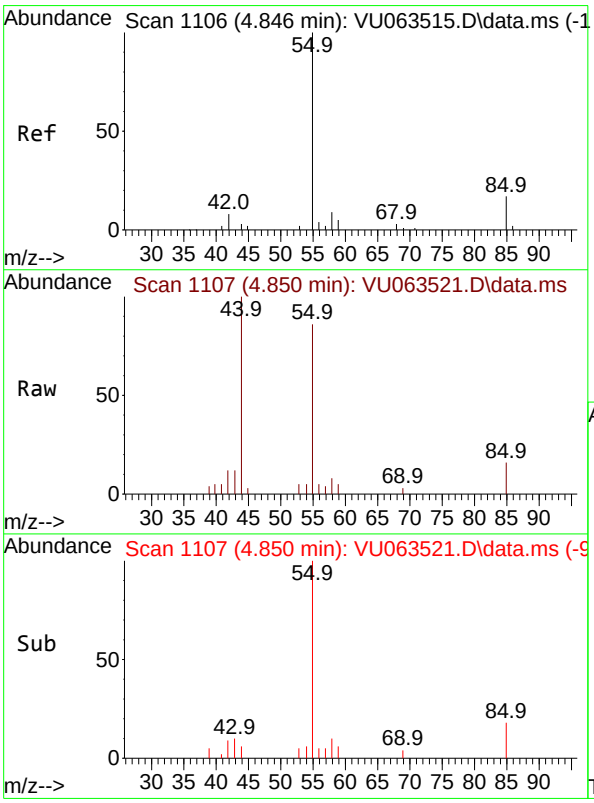
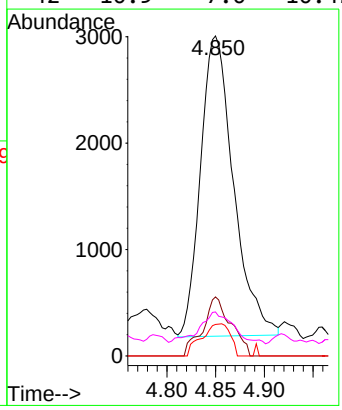
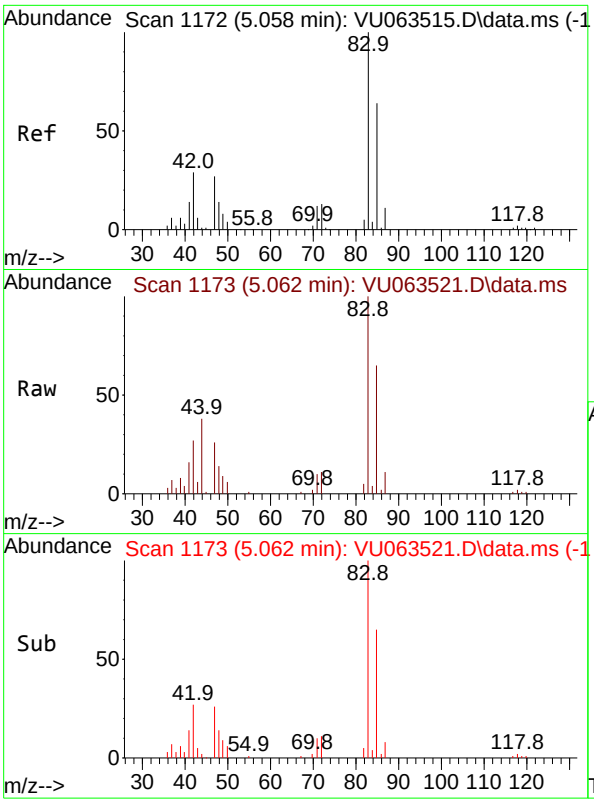


#40
Methyl acrylate
Concen: 1.907 ug/l
RT: 4.850 min Scan# 1107
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 55 Resp: 6649

Ion	Ratio	Lower	Upper
55	100		
85	16.7	12.8	19.2
58	9.2	7.0	10.4
42	10.9	7.0	10.4#





#41
Tetrahydrofuran
Concen: 4.674 ug/l
RT: 5.062 min Scan# 1
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 42 Resp: 586

Ion	Ratio	Lower	Upper
42	100		
72	41.9	39.2	58.8
71	37.7	34.8	52.2

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

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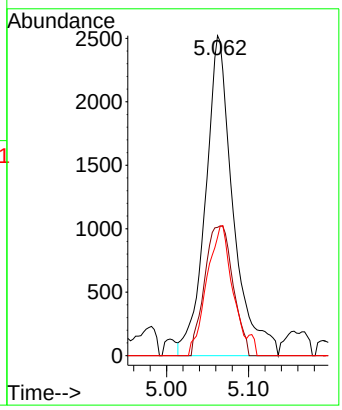
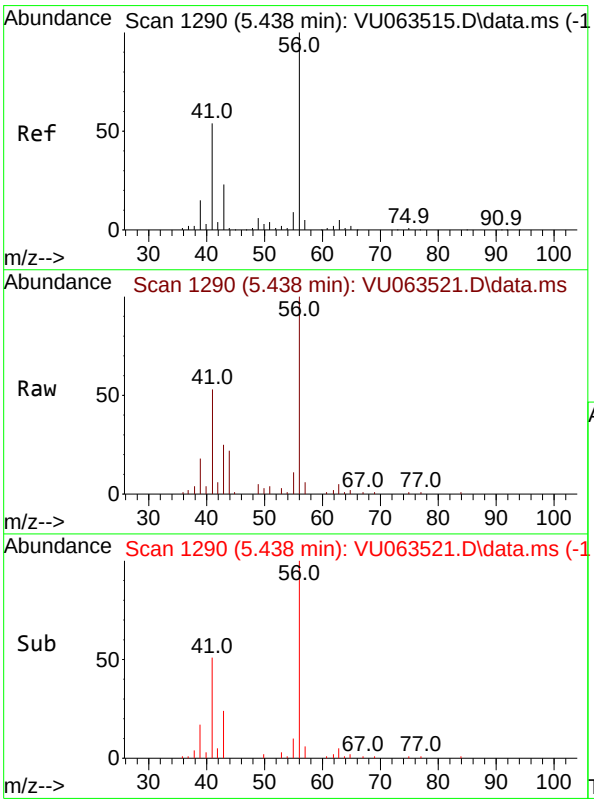
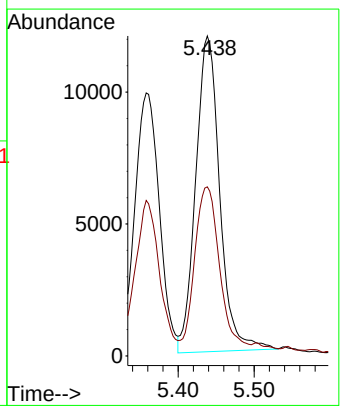


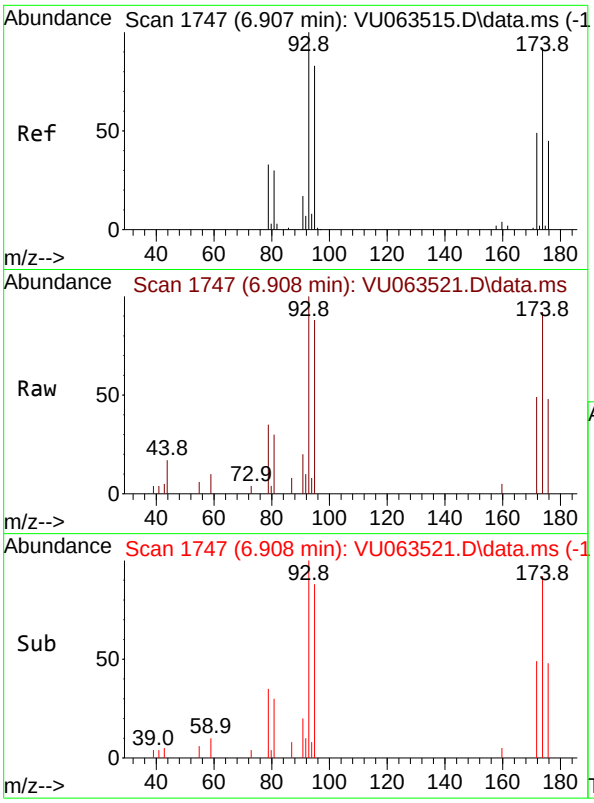


#42
1-Chlorobutane
Concen: 2.062 ug/l
RT: 5.438 min Scan# 1290
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 56 Resp: 26277

Ion	Ratio	Lower	Upper
56	100		
41	50.5	26.7	80.0

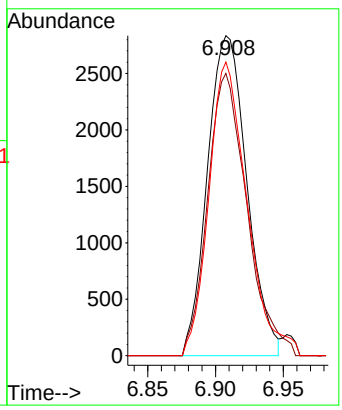




#43
Dibromomethane
Concen: 1.838 ug/l
RT: 6.908 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 93 Resp: 574

Ion	Ratio	Lower	Upper
93	100		
95	87.8	67.9	101.9
174	88.9	74.6	111.8



Instrument :
MSVOA_U
ClientSampleId :
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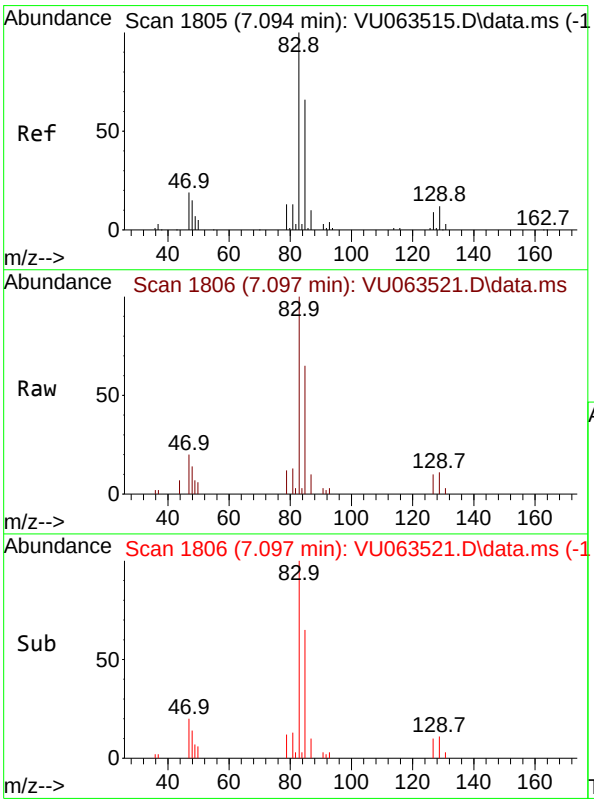
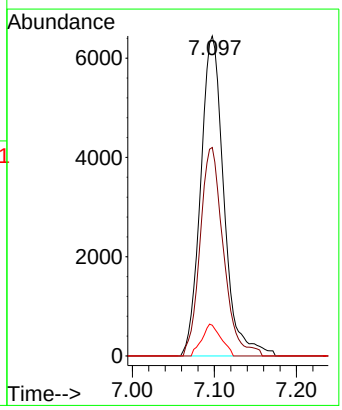
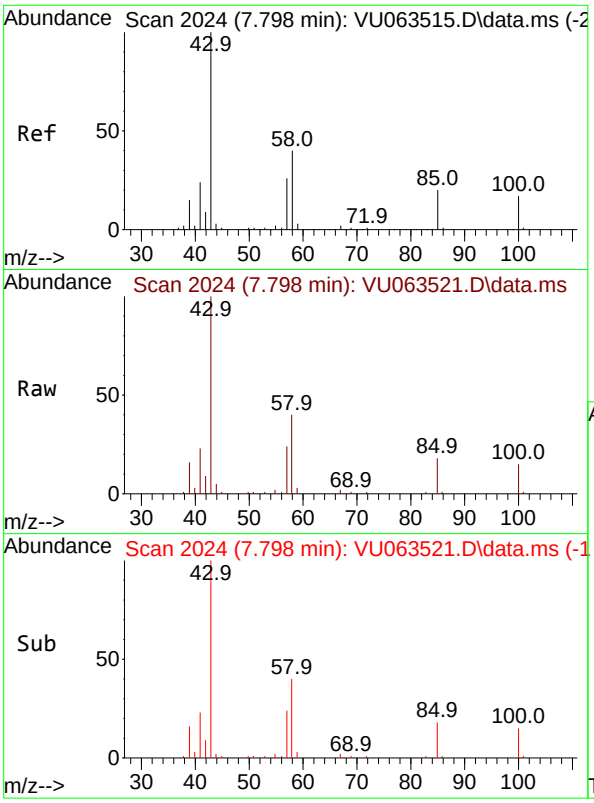


#44
Bromodichloromethane
Concen: 1.802 ug/l
RT: 7.097 min Scan# 1806
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 83 Resp: 12690

Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.7	79.1
127	9.6	8.1	12.1

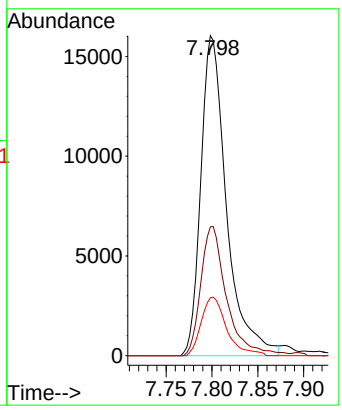




#45
4-Methyl-2-Pentanone
Concen: 9.714 ug/l
RT: 7.798 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 43 Resp: 3126

Ion	Ratio	Lower	Upper
43	100		
58	40.5	20.0	60.0
85	18.1	15.4	23.0



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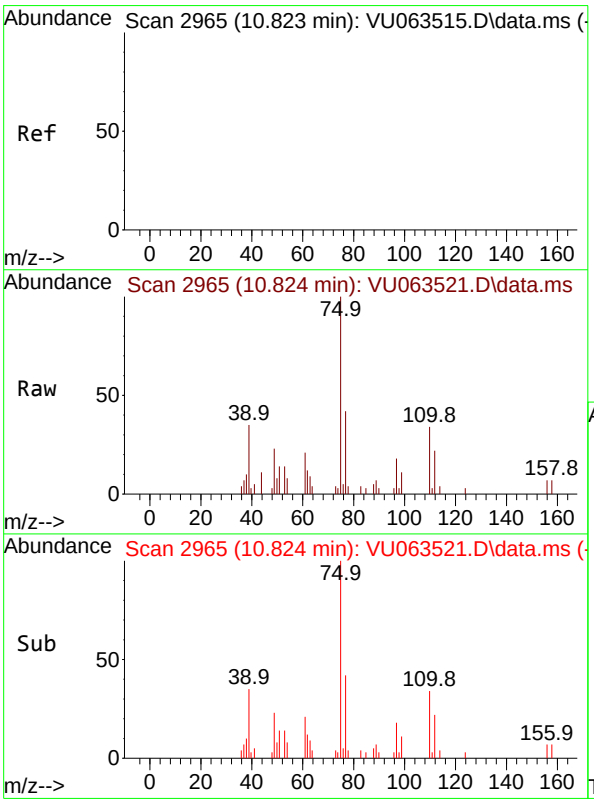
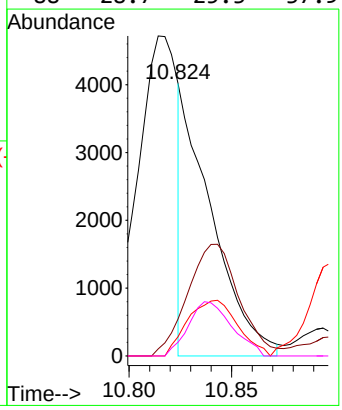
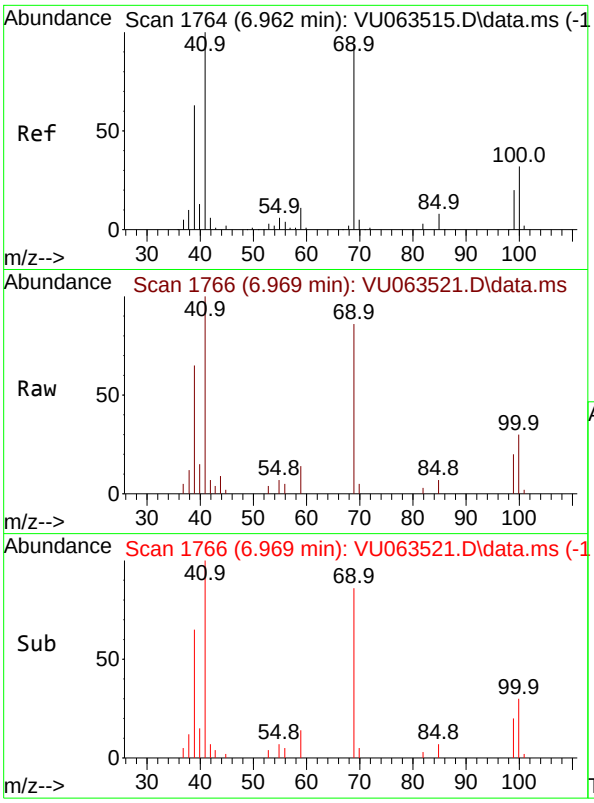


#46
t-1,4-Dichloro-2-butene
Concen: 3.407 ug/l m
RT: 10.824 min Scan# 2965
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 75 Resp: 4116

Ion	Ratio	Lower	Upper
75	100		
53	70.0	48.4	72.6
89	33.8	30.6	45.8
88	28.7	25.3	37.9

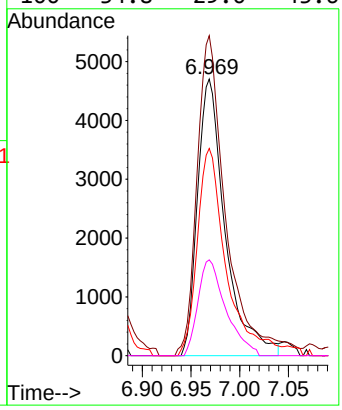




#47
Methyl methacrylate
Concen: 3.541 ug/l
RT: 6.969 min Scan# 1
Delta R.T. 0.007 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 69 Resp: 928

Ion	Ratio	Lower	Upper
69	100		
41	121.4	0.0	224.0
39	78.2	55.3	82.9
100	34.8	29.0	43.6



Instrument :
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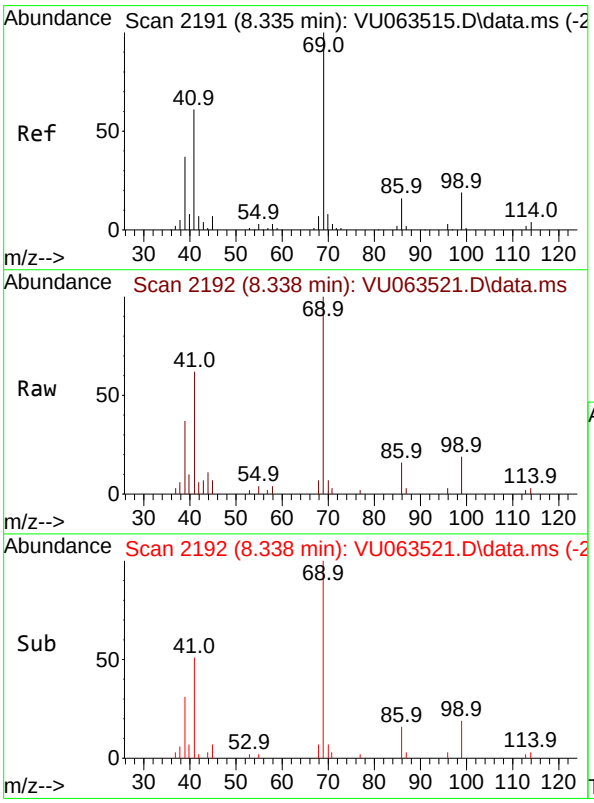
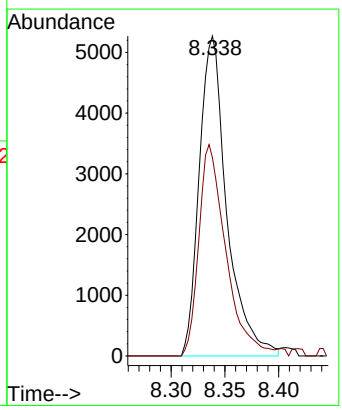
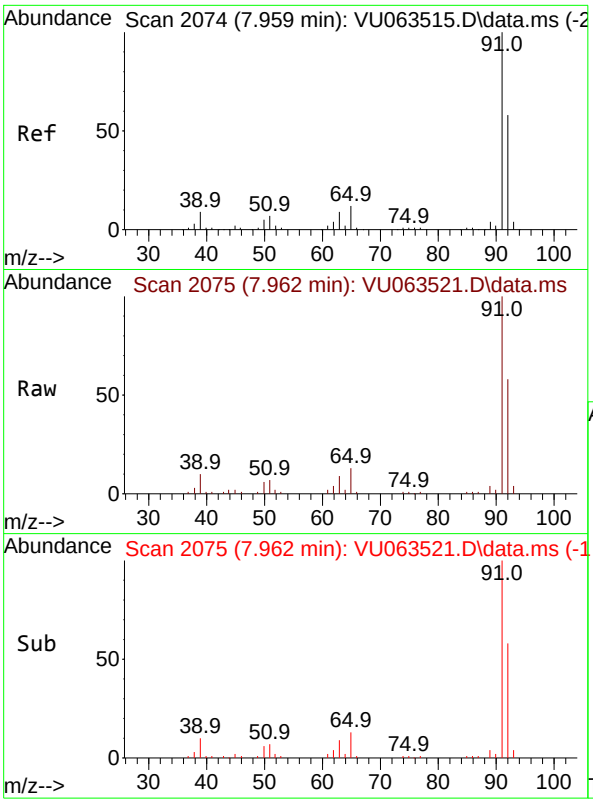


#48
Ethyl methacrylate
Concen: 1.877 ug/l
RT: 8.338 min Scan# 2192
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 69 Resp: 9397

Ion	Ratio	Lower	Upper
69	100		
41	64.9	30.8	92.4





#49
Toluene
Concen: 1.885 ug/l
RT: 7.962 min Scan# 2
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 92 Resp: 2650

Ion	Ratio	Lower	Upper
92	100		
91	179.8	140.4	210.6

Instrument :
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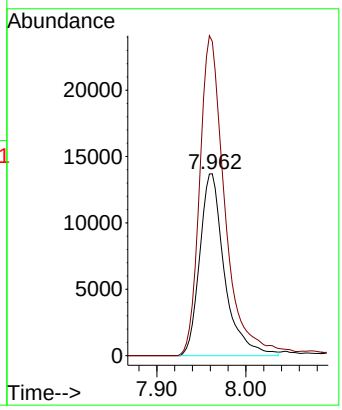
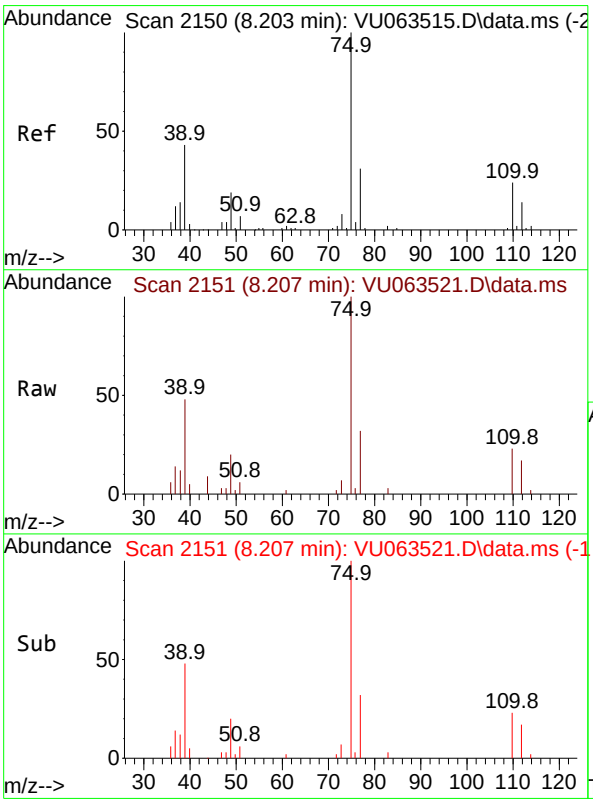
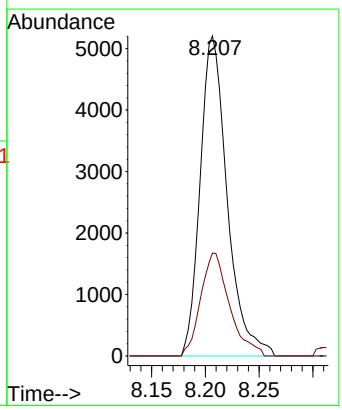


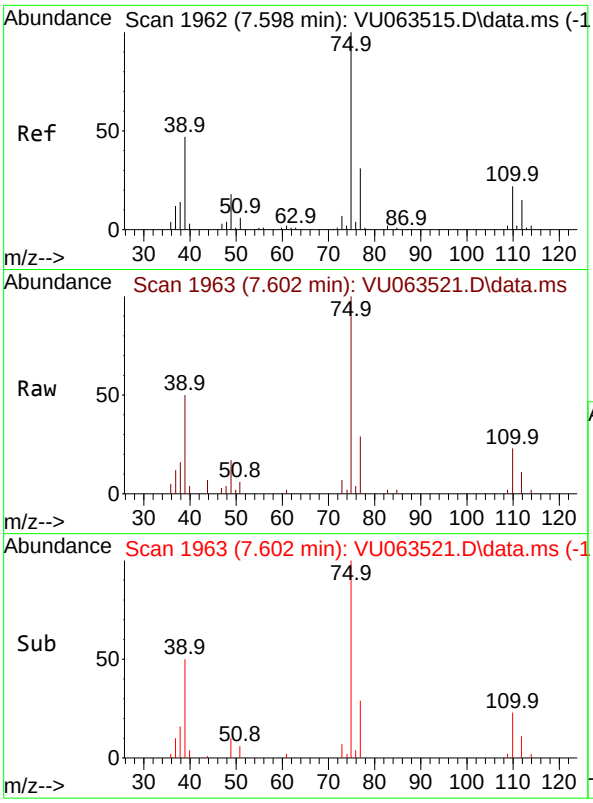


#50
t-1,3-Dichloropropene
Concen: 1.645 ug/l
RT: 8.207 min Scan# 2151
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 75 Resp: 9090

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.9	37.3

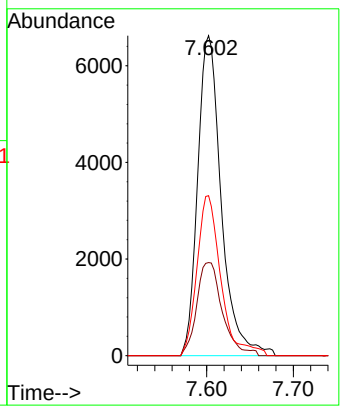




#51
cis-1,3-Dichloropropene
Concen: 1.692 ug/l
RT: 7.602 min Scan# 1
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 75 Resp: 1255

Ion	Ratio	Lower	Upper
75	100		
77	29.1	25.1	37.7
39	50.0	37.8	56.6



Instrument :
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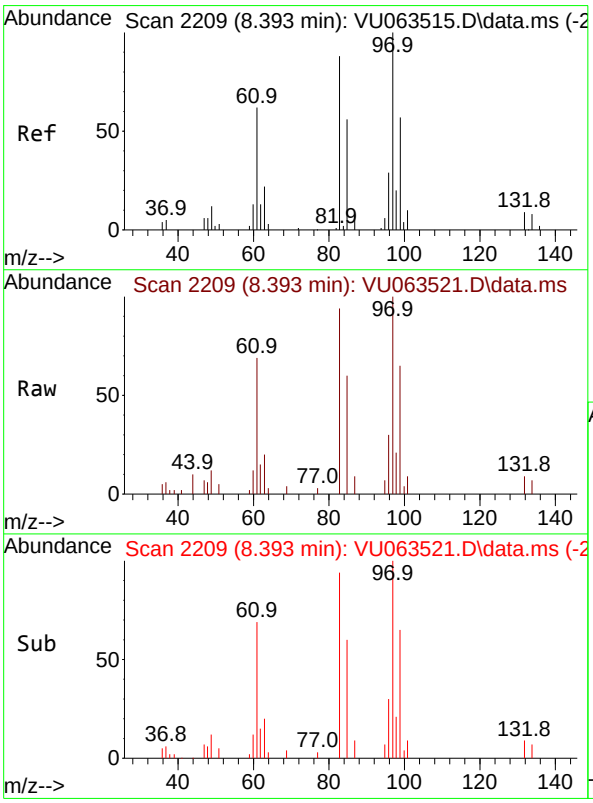
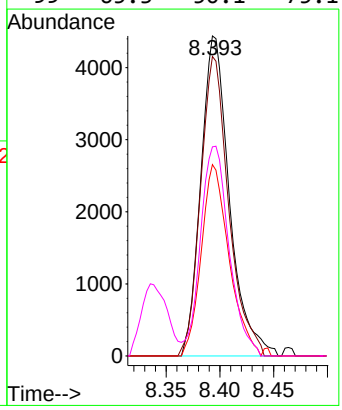
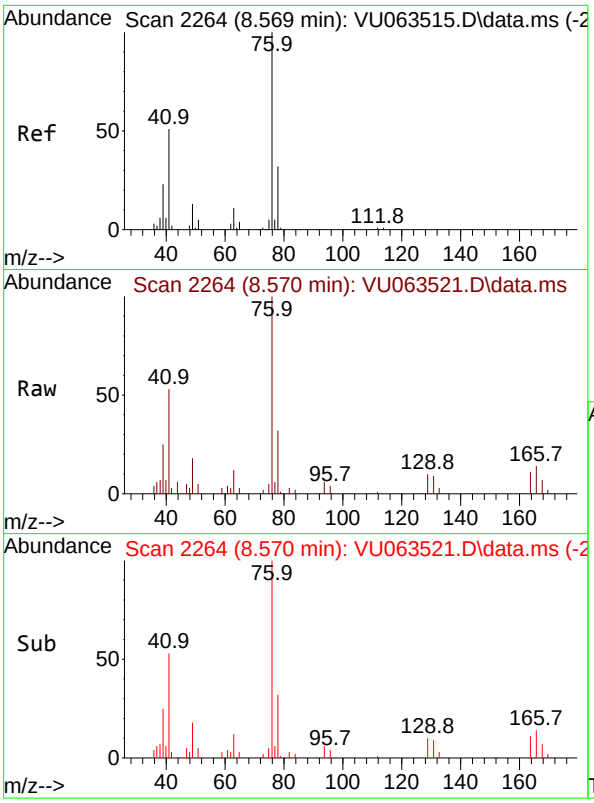


#52
1,1,2-Trichloroethane
Concen: 1.957 ug/l
RT: 8.393 min Scan# 2209
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 97 Resp: 8229

Ion	Ratio	Lower	Upper
97	100		
83	93.6	70.2	105.2
85	59.8	45.2	67.8
99	65.3	50.1	75.1

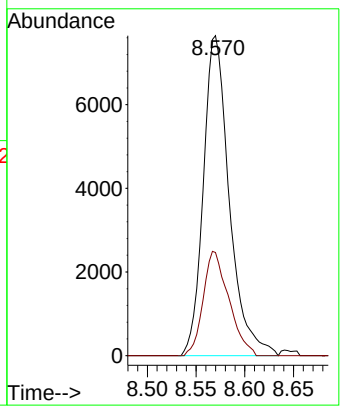




#53
1,3-Dichloropropane
Concen: 1.956 ug/l
RT: 8.570 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 76 Resp: 1420

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.0	39.0



Instrument :
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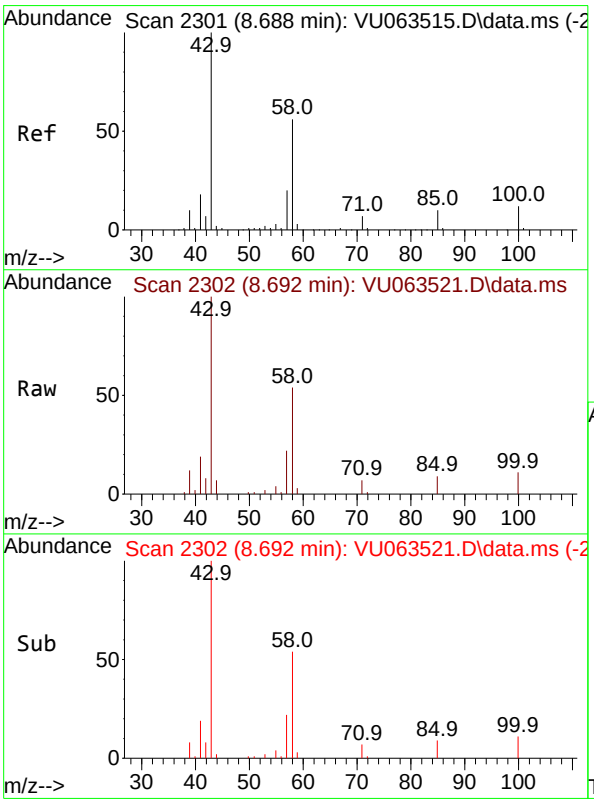
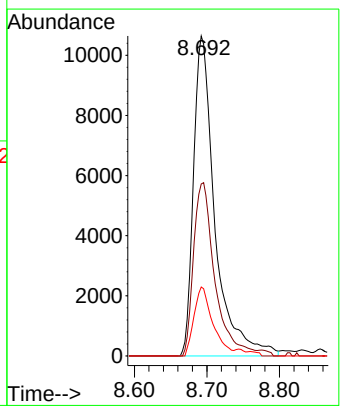
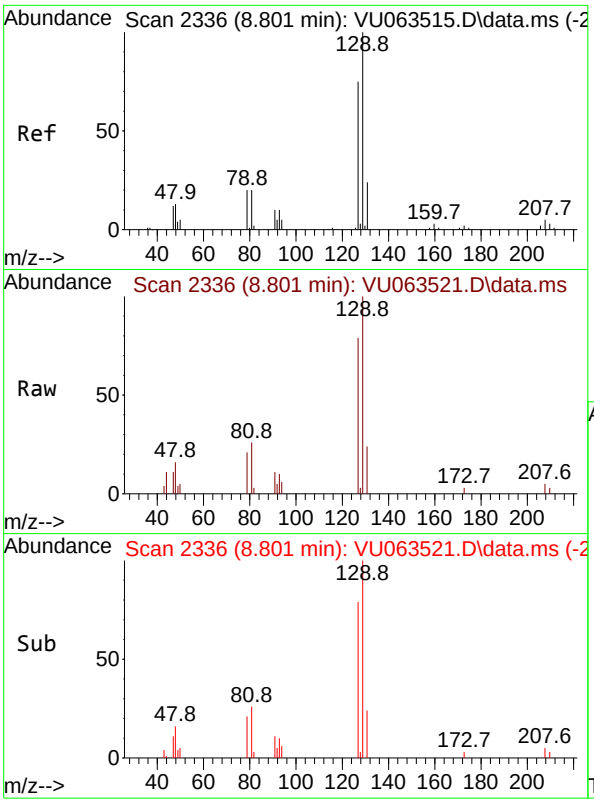


#54
2-Hexanone
Concen: 10.196 ug/l
RT: 8.692 min Scan# 2302
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 43 Resp: 21798

Ion	Ratio	Lower	Upper
43	100		
58	53.9	34.8	74.8
57	19.0	0.0	39.5

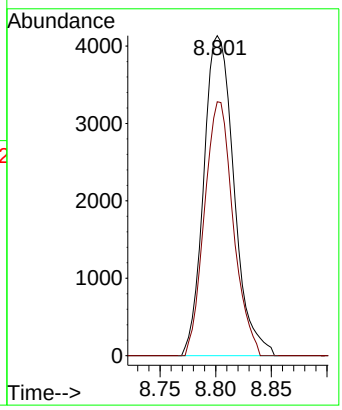




#55
Dibromochloromethane
Concen: 1.760 ug/l
RT: 8.801 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:129 Resp: 781

Ion	Ratio	Lower	Upper
129	100		
127	75.2	60.1	90.1



Instrument :
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ClientSampleId :
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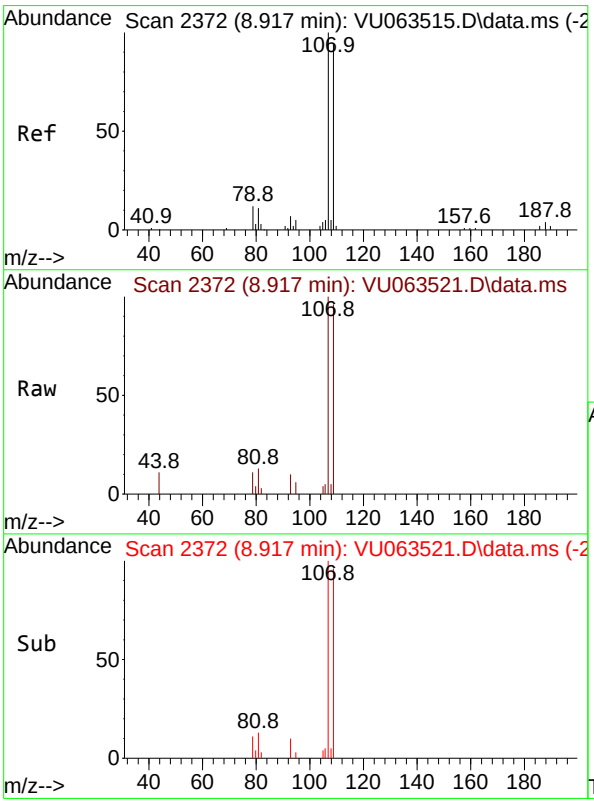
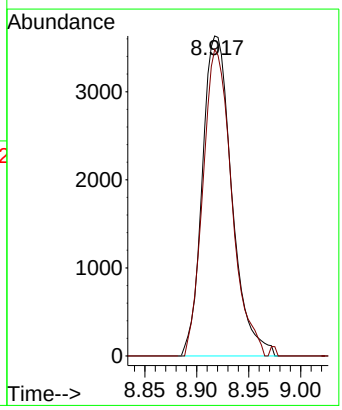
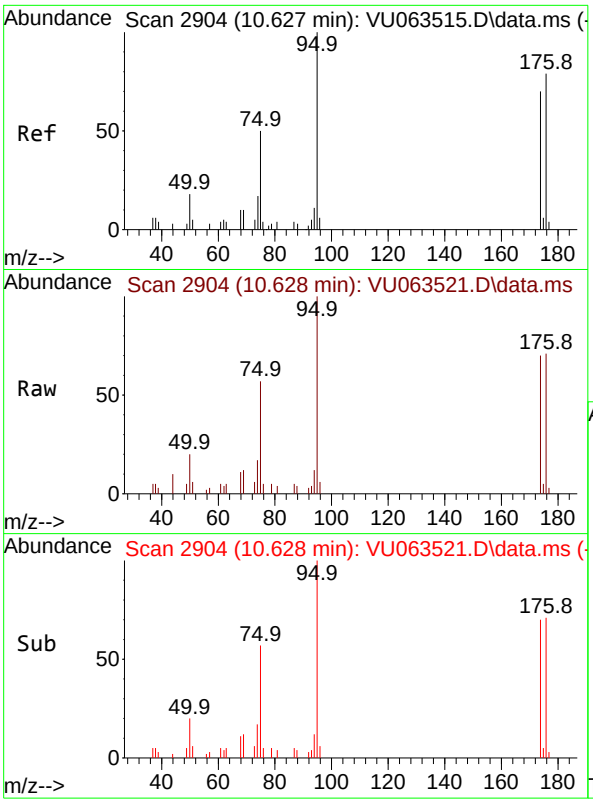


#56
1,2-Dibromoethane
Concen: 1.904 ug/l
RT: 8.917 min Scan# 2372
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:107 Resp: 7165

Ion	Ratio	Lower	Upper
107	100		
109	93.4	0.0	186.4

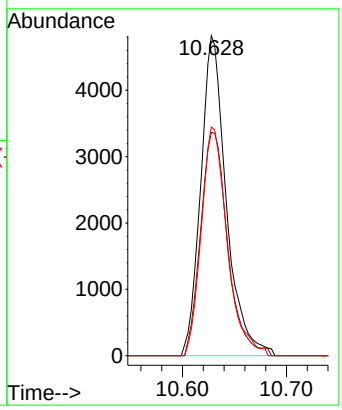




#57
4-Bromofluorobenzene
Concen: 0.995 ug/l
RT: 10.628 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 95 Resp: 823

Ion	Ratio	Lower	Upper
95	100		
174	73.6	59.8	89.8
176	72.5	61.8	92.8



Instrument :
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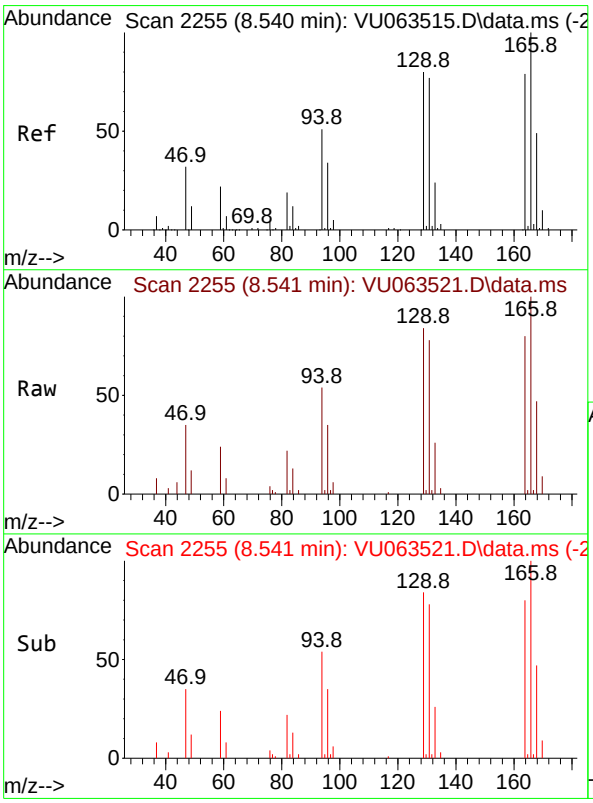
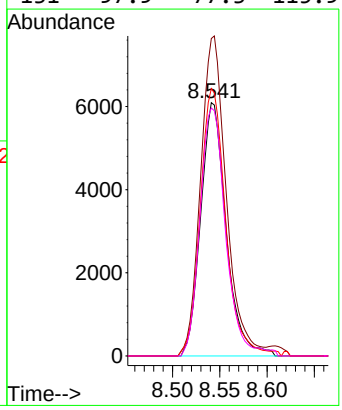
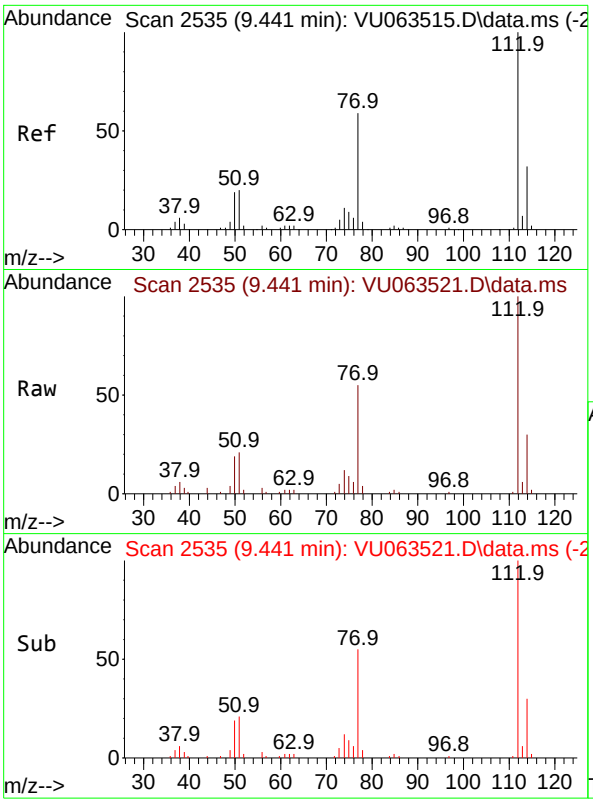


#58
Tetrachloroethene
Concen: 1.896 ug/l
RT: 8.541 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:164 Resp: 11402

Ion	Ratio	Lower	Upper
164	100		
166	125.3	100.7	151.1
129	105.5	80.6	120.8
131	97.9	77.3	115.9

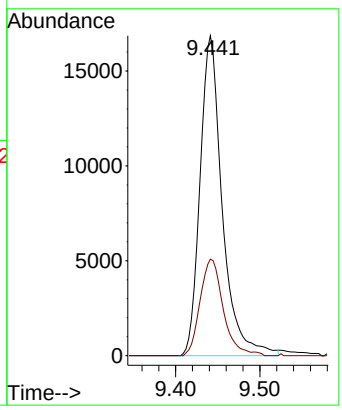




#59
Chlorobenzene
Concen: 1.916 ug/l
RT: 9.441 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:112 Resp: 3094

Ion	Ratio	Lower	Upper
112	100		
114	30.1	25.4	38.2



Instrument :
MSVOA_U
ClientSampleId :
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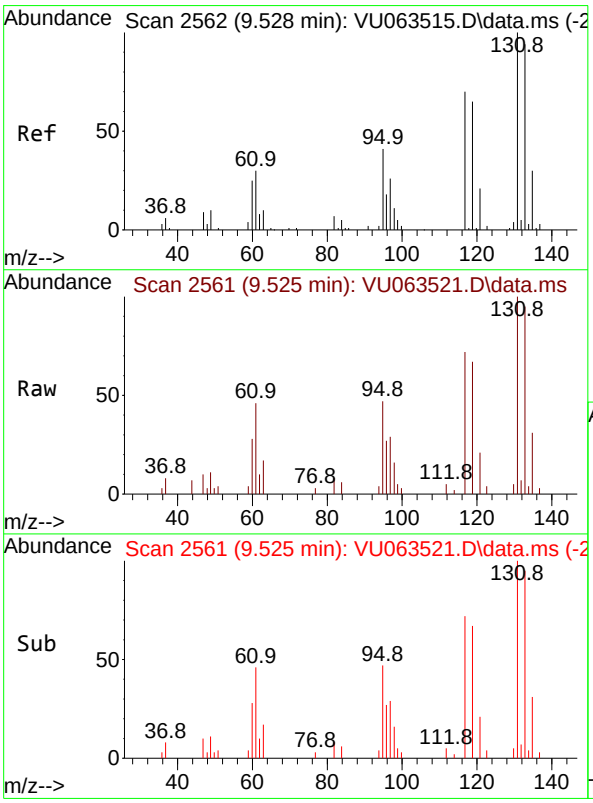
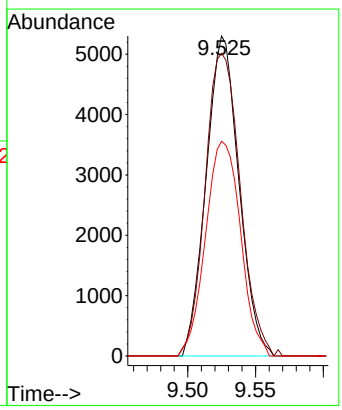
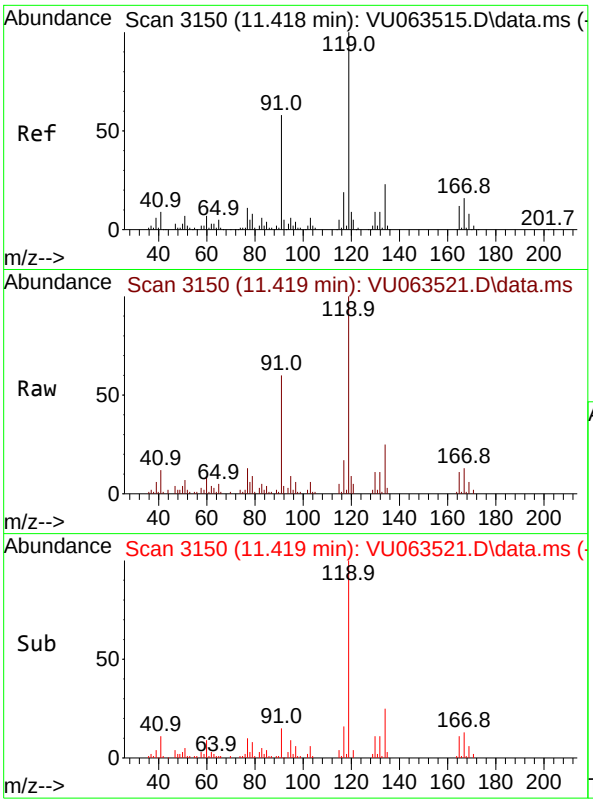


#60
1,1,1,2-Tetrachloroethane
Concen: 1.717 ug/l
RT: 9.525 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:131 Resp: 8917

Ion	Ratio	Lower	Upper
131	100		
133	101.3	74.7	112.1
119	71.6	53.0	79.4





#61
Pentachloroethane
Concen: 1.737 ug/l
RT: 11.419 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:117 Resp: 637

Ion	Ratio	Lower	Upper
117	100		
167	70.2	65.0	97.6

Instrument :
MSVOA_U
ClientSampleId :
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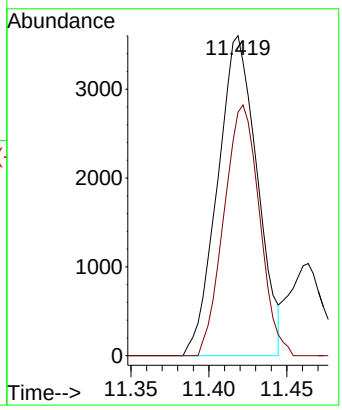
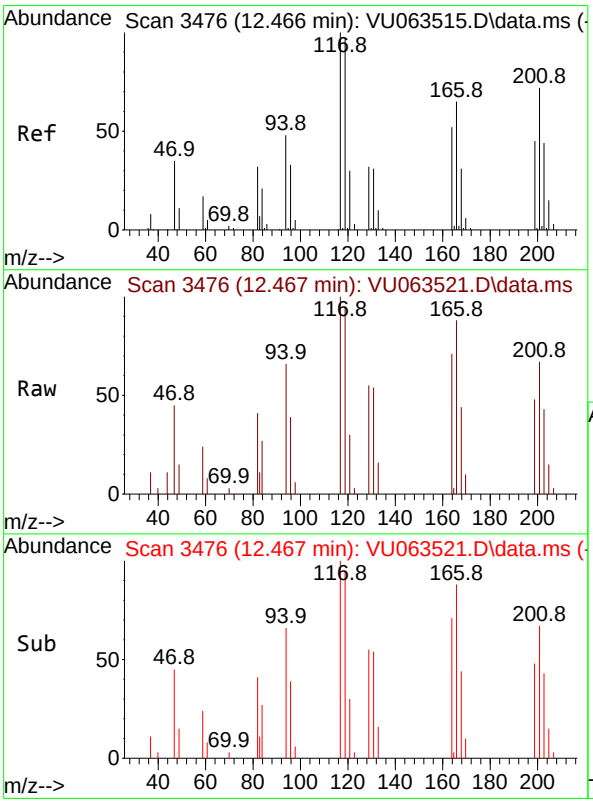
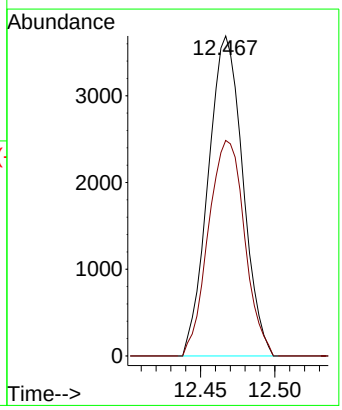


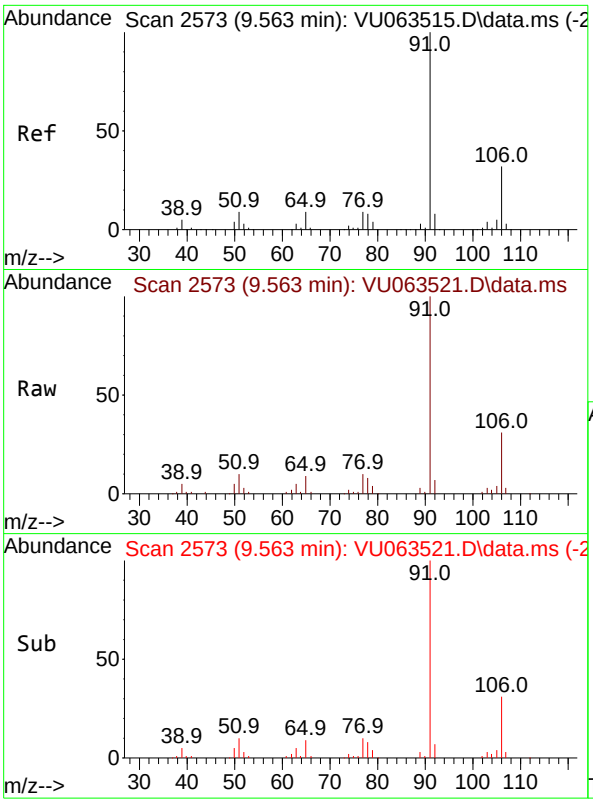


#62
Hexachloroethane
Concen: 1.644 ug/l
RT: 12.467 min Scan# 3476
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:117 Resp: 5976

Ion	Ratio	Lower	Upper
117	100		
201	70.6	57.4	86.0





#63
Ethyl Benzene
Concen: 1.929 ug/l
RT: 9.563 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 91 Resp: 5362

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.4	38.0

Instrument :
MSVOA_U
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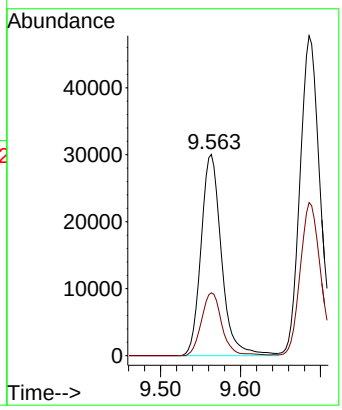
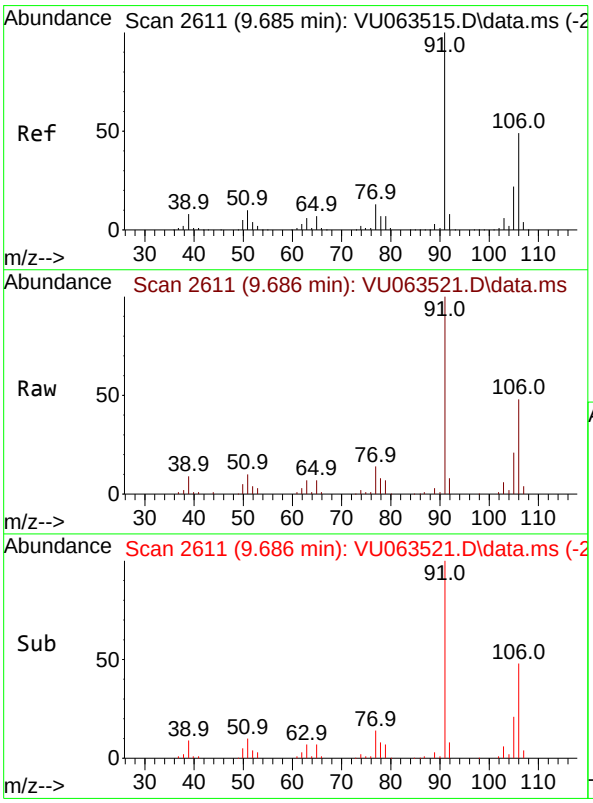
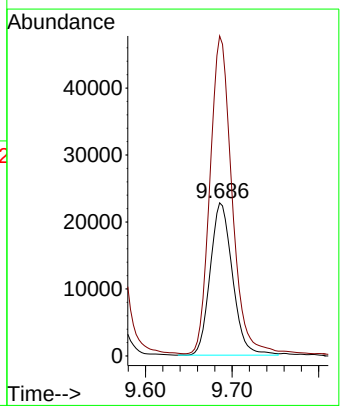


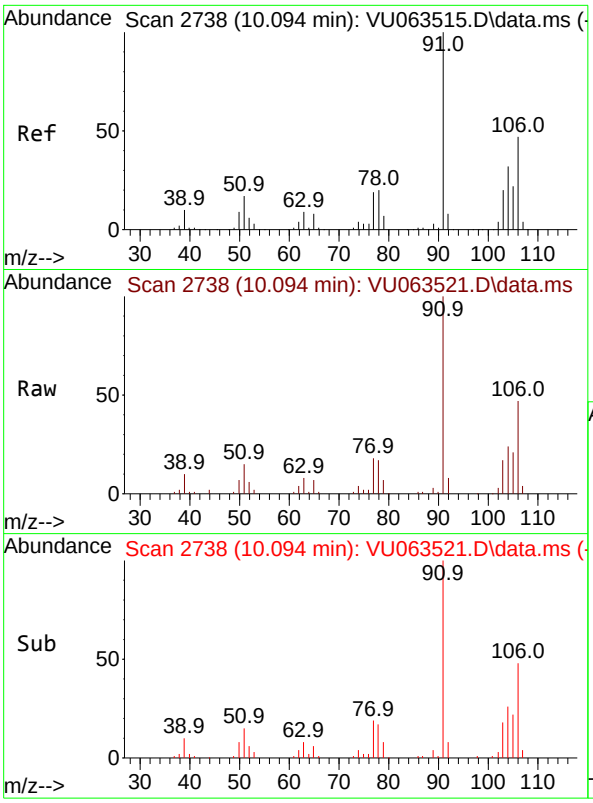


#64
m/p-Xylenes
Concen: 3.770 ug/l
RT: 9.686 min Scan# 2611
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:106 Resp: 40731

Ion	Ratio	Lower	Upper
106	100		
91	207.2	163.6	245.4

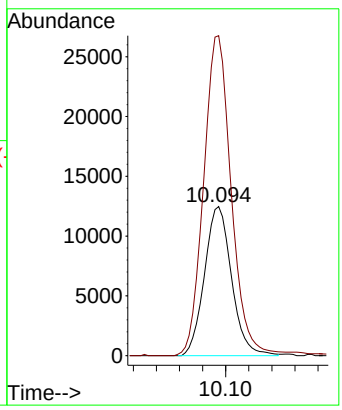




#65
o-Xylene
Concen: 1.957 ug/l
RT: 10.094 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:106 Resp: 2031

Ion	Ratio	Lower	Upper
106	100		
91	221.2	108.1	324.4



Instrument :
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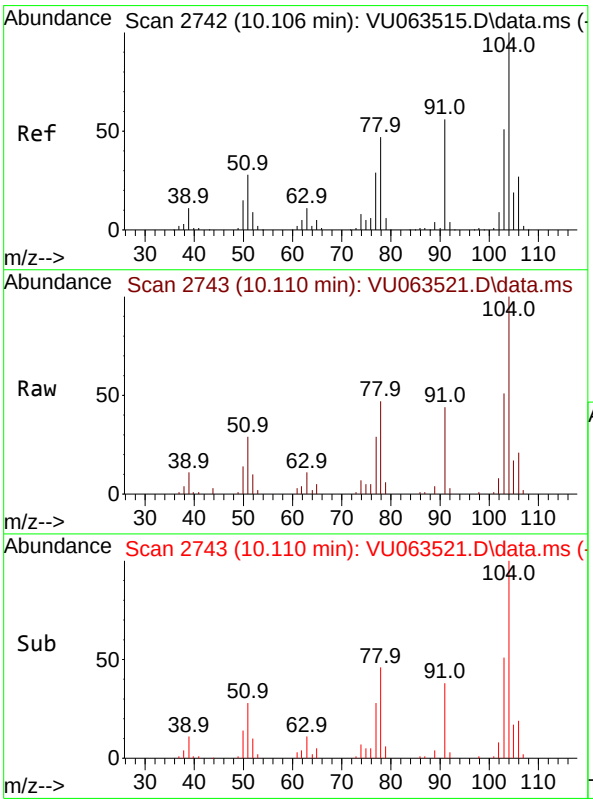
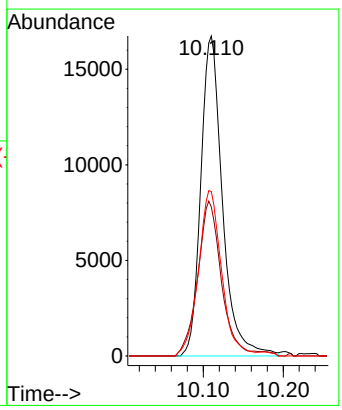
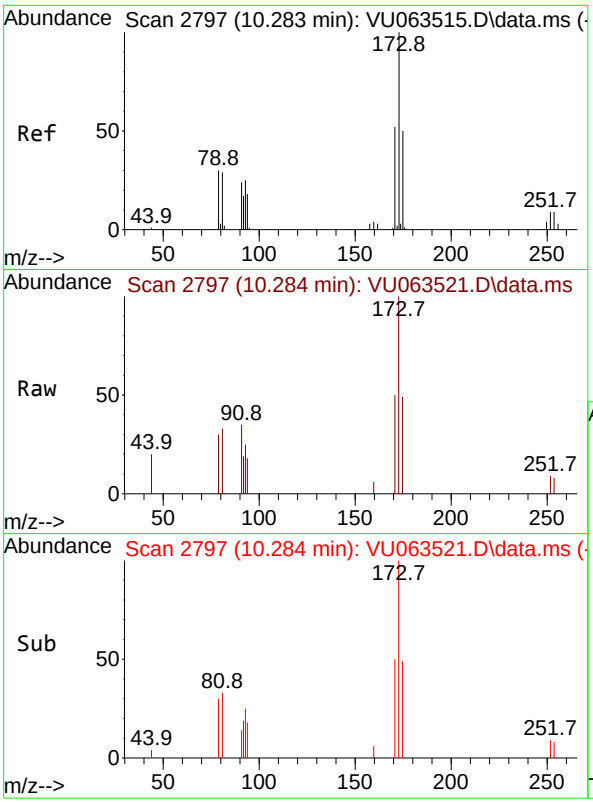


#66
Styrene
Concen: 1.908 ug/l
RT: 10.110 min Scan# 2743
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:104 Resp: 31561

Ion	Ratio	Lower	Upper
104	100		
78	53.4	41.3	61.9
103	55.2	43.6	65.4

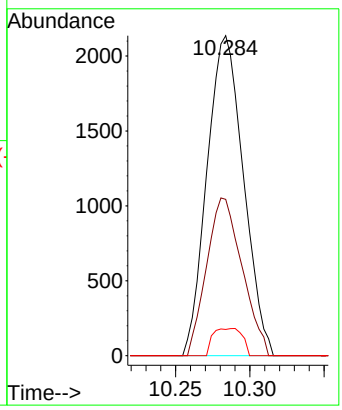




#67
Bromoform
Concen: 1.597 ug/l
RT: 10.284 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:173 Resp: 364

Ion	Ratio	Lower	Upper
173	100		
175	48.0	39.0	58.4
254	6.8	6.5	9.7



Instrument :
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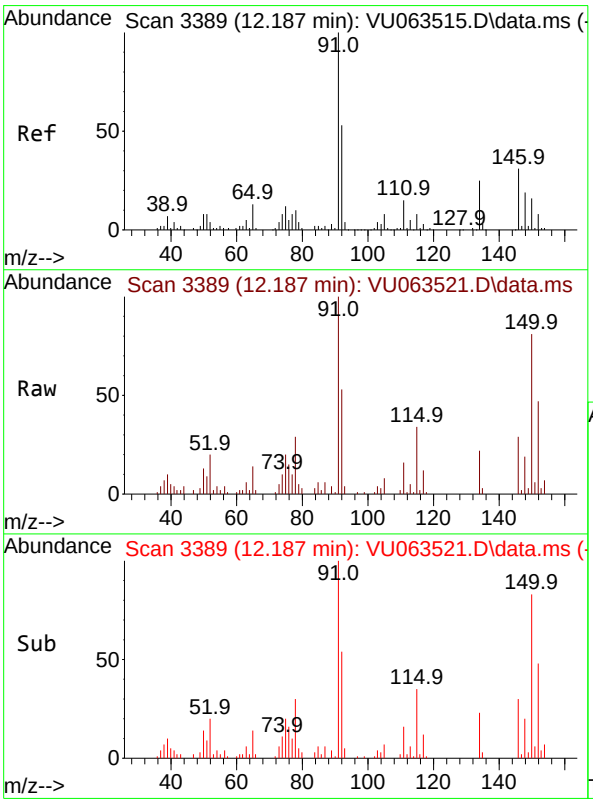
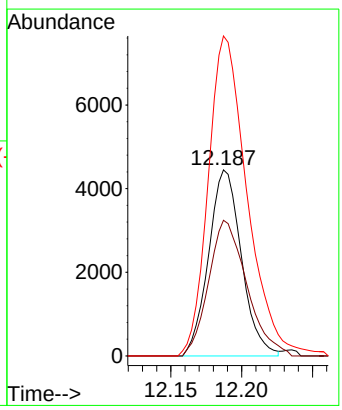
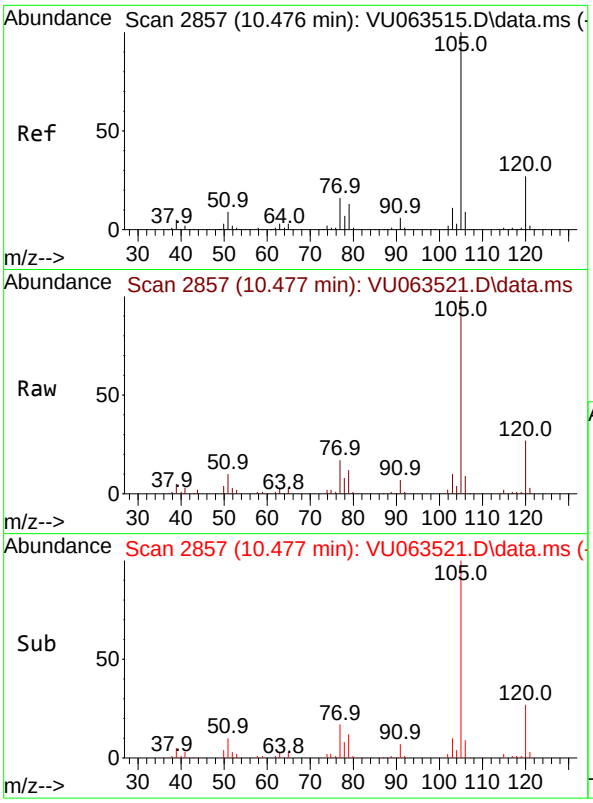


#68
1,2-Dichlorobenzene-d4
Concen: 0.936 ug/l
RT: 12.187 min Scan# 3389
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:152 Resp: 7166

Ion	Ratio	Lower	Upper
152	100		
115	84.6	0.0	262.2
150	204.2	0.0	651.2

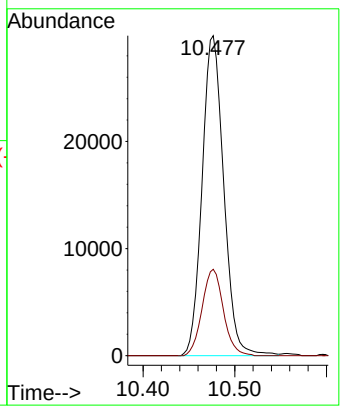




#69
Isopropylbenzene
Concen: 1.952 ug/l
RT: 10.477 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:105 Resp: 4898

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.5



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

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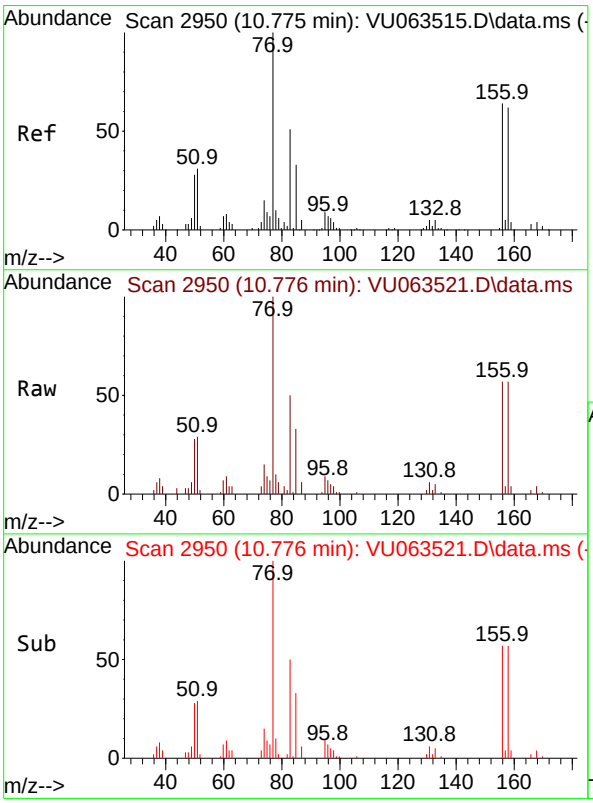
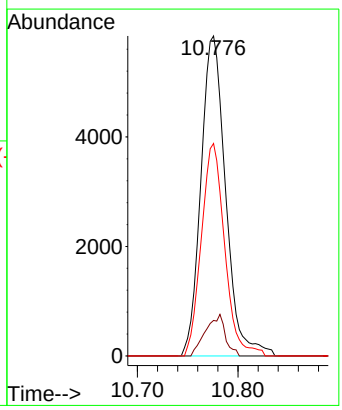
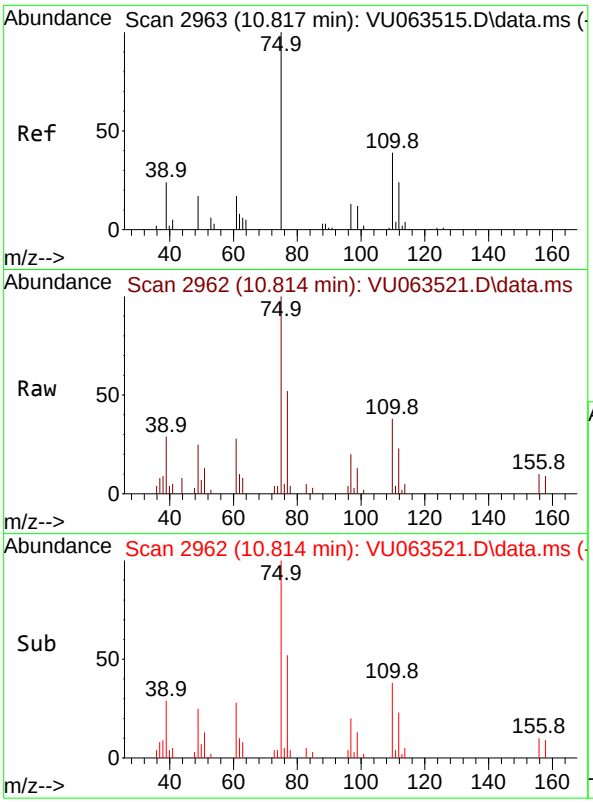


#70
1,1,2,2-Tetrachloroethane
Concen: 1.948 ug/l
RT: 10.776 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 83 Resp: 9968

Ion	Ratio	Lower	Upper
83	100		
131	10.4	8.4	12.6
85	62.7	51.9	77.9

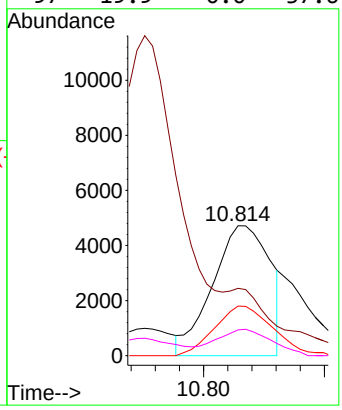




#71
1,2,3-Trichloropropane
Concen: 1.871 ug/l m
RT: 10.814 min Scan# 2
Delta R.T. -0.003 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 75 Resp: 777

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	38.8	0.0	73.2
97	19.9	0.0	37.6



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

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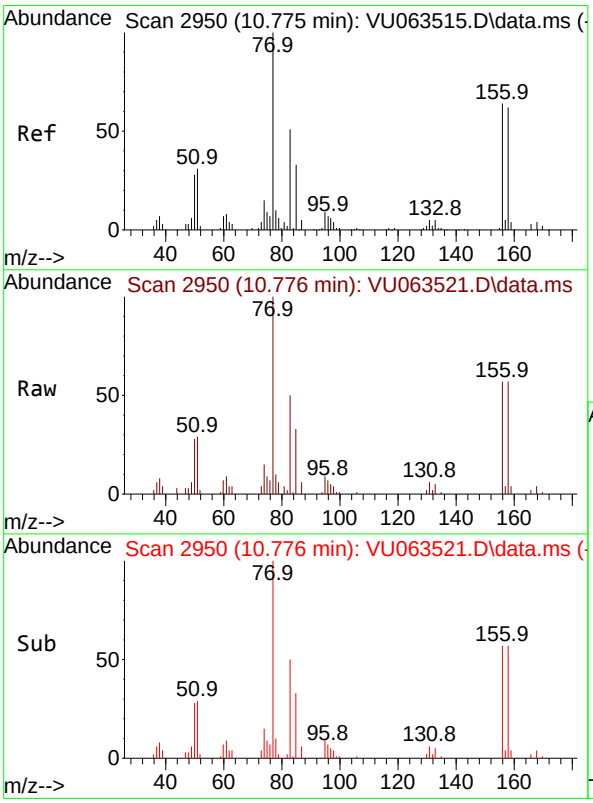
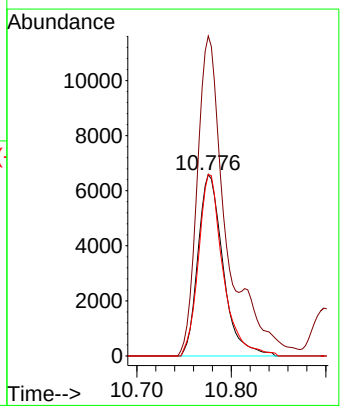
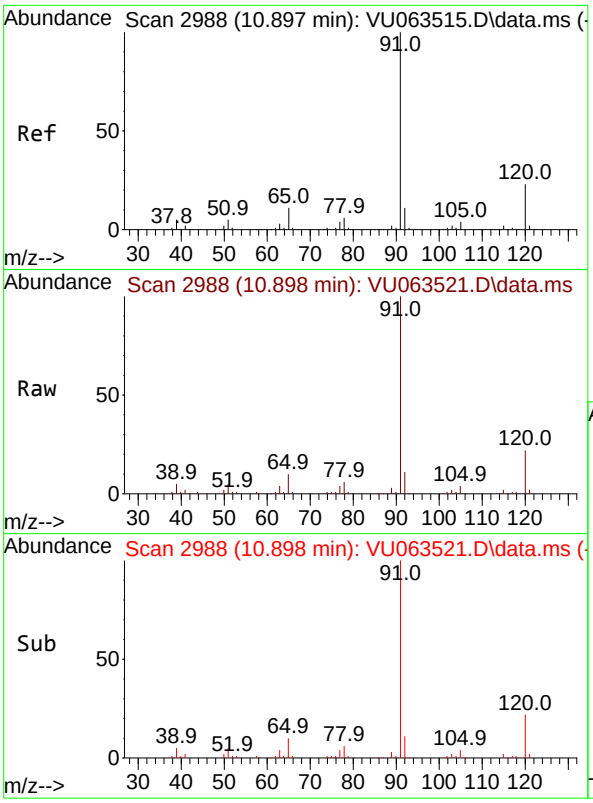


#72
Bromobenzene
Concen: 1.868 ug/l
RT: 10.776 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:156 Resp: 12098

Ion	Ratio	Lower	Upper
156	100		
77	174.0	0.0	315.2
158	98.3	0.0	195.4

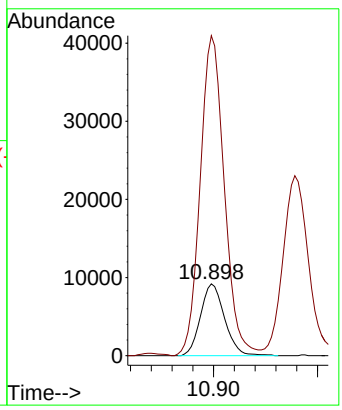




#73
n-propylbenzene
Concen: 1.956 ug/l
RT: 10.898 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:120 Resp: 1478

Ion	Ratio	Lower	Upper
120	100		
91	446.9	343.1	514.7



Instrument :
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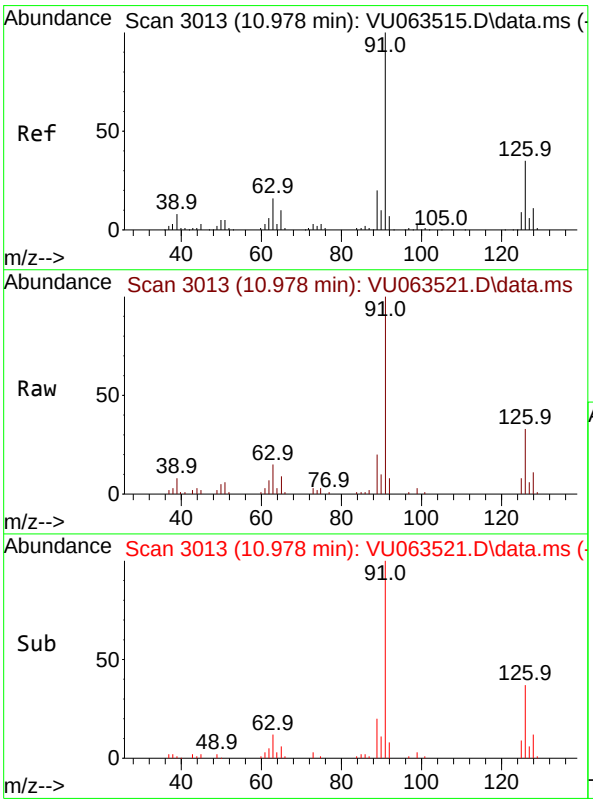
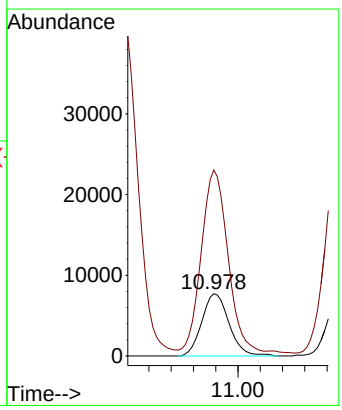
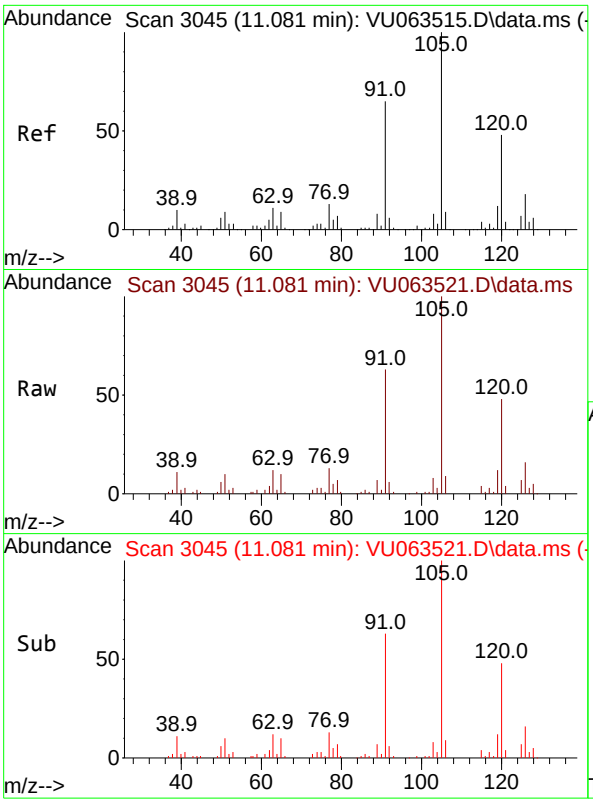


#74
2-Chlorotoluene
Concen: 1.957 ug/l
RT: 10.978 min Scan# 3013
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:126 Resp: 13064

Ion	Ratio	Lower	Upper
126	100		
91	285.4	0.0	606.0





#75
1,3,5-Trimethylbenzene
Concen: 1.938 ug/l
RT: 11.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:105 Resp: 4646

Ion	Ratio	Lower	Upper
105	100		
120	47.2	37.8	56.8

Instrument :
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ClientSampleId :
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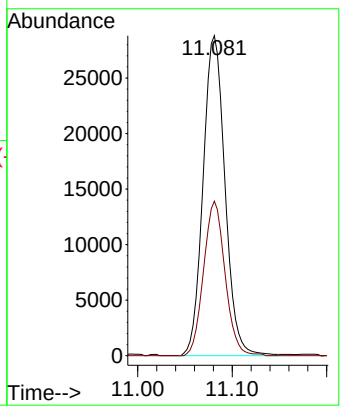
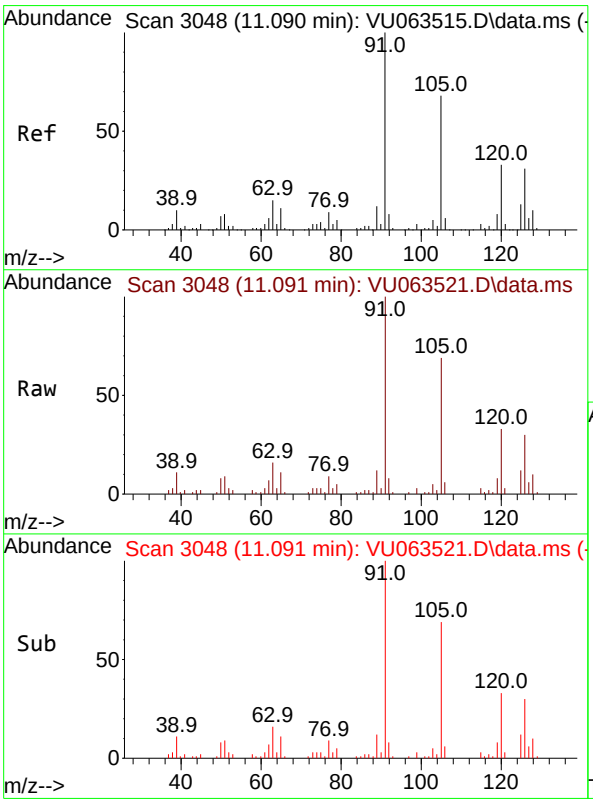
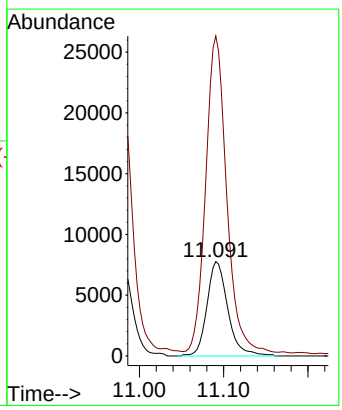


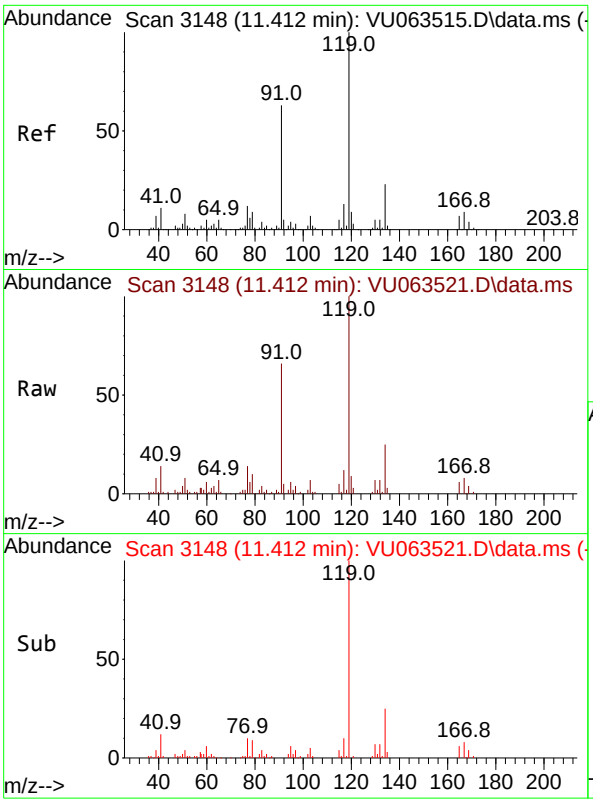


#76
4-Chlorotoluene
Concen: 1.973 ug/l
RT: 11.091 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:126 Resp: 13377

Ion	Ratio	Lower	Upper
126	100		
91	334.9	0.0	682.2

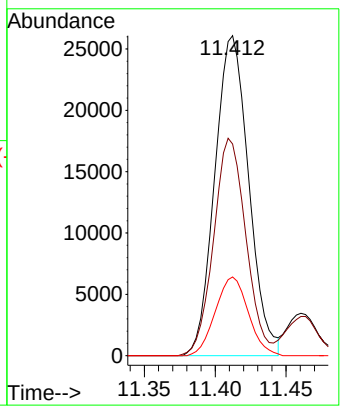




#77
tert-Butylbenzene
Concen: 1.901 ug/l
RT: 11.412 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:119 Resp: 4354

Ion	Ratio	Lower	Upper
119	100		
91	64.8	30.7	92.1
134	23.9	18.5	27.7



Instrument :
MSVOA_U
ClientSampleId :
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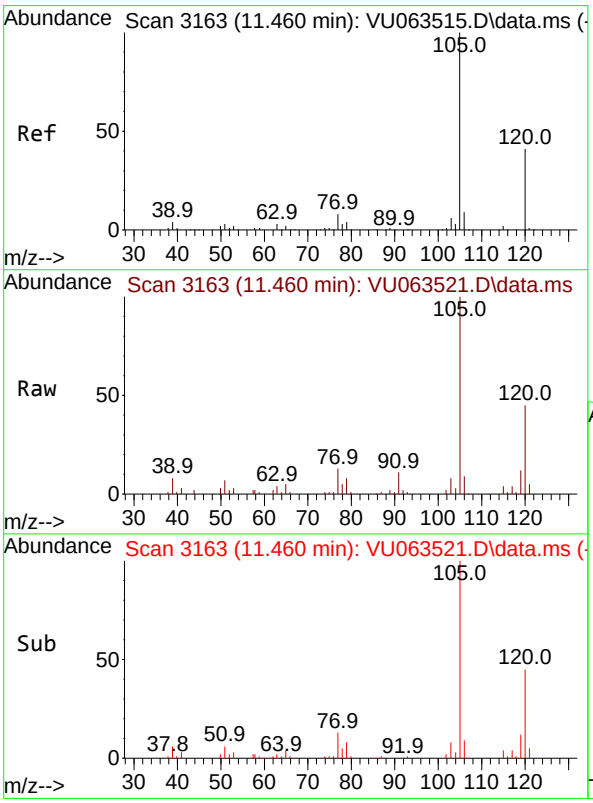
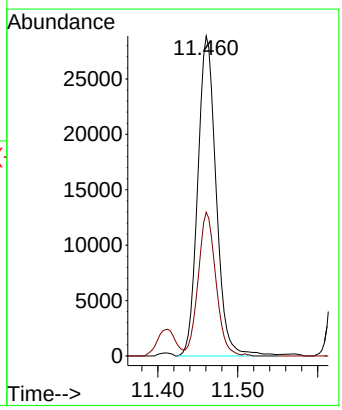
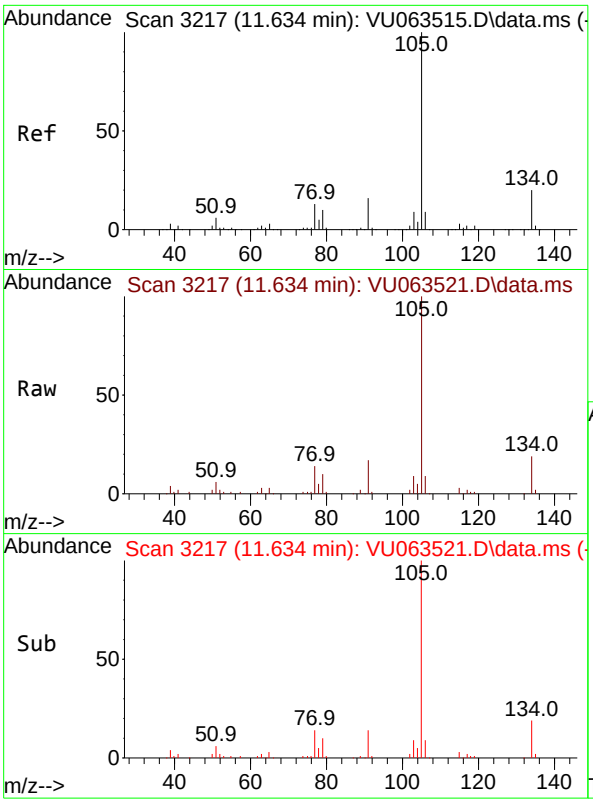


#78
1,2,4-Trimethylbenzene
Concen: 1.947 ug/l
RT: 11.460 min Scan# 3163
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:105 Resp: 46303

Ion	Ratio	Lower	Upper
105	100		
120	42.6	22.7	68.0

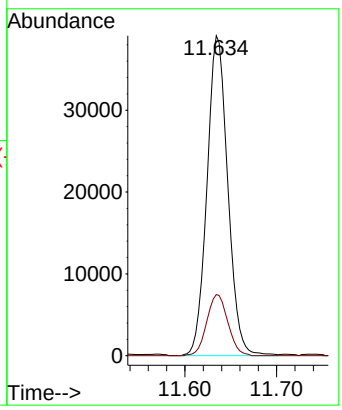




#79
sec-Butylbenzene
Concen: 1.994 ug/l
RT: 11.634 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:105 Resp: 6162

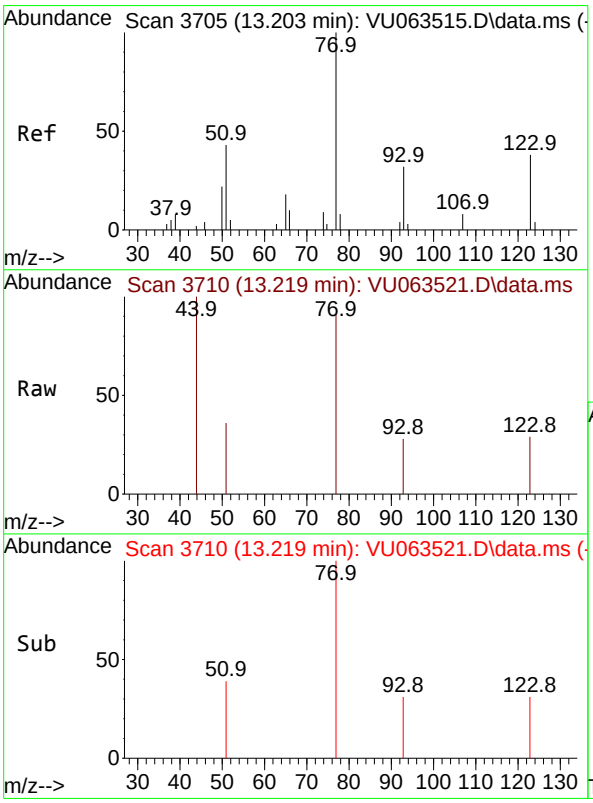
Ion	Ratio	Lower	Upper
105	100		
134	19.4	16.2	24.4



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

Manual Integrations
APPROVED

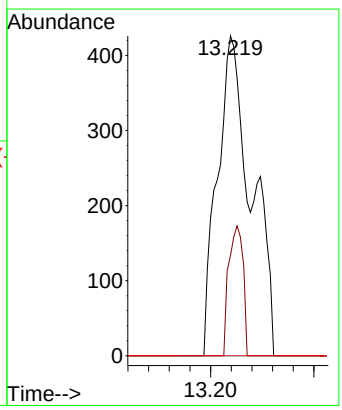
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

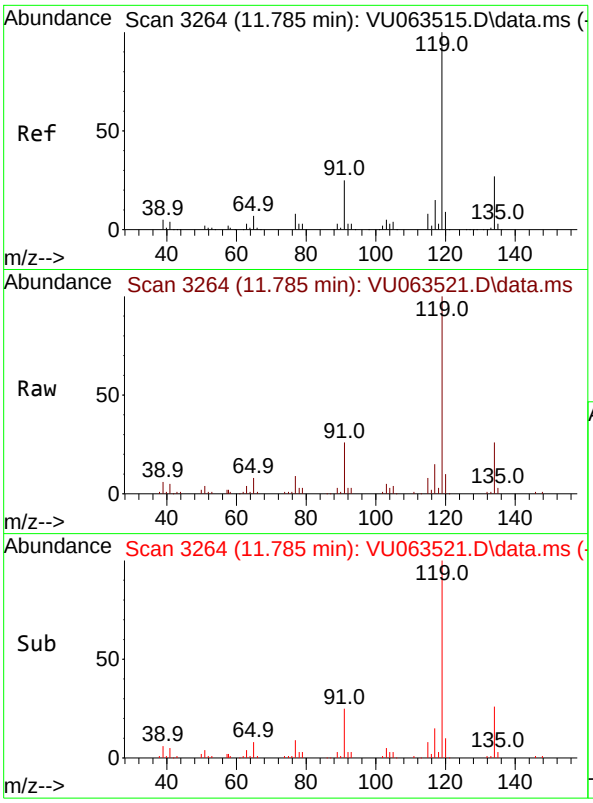


#80
Nitrobenzene
Concen: 11.740 ug/l m
RT: 13.219 min Scan# 3710
Delta R.T. 0.016 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 77 Resp: 968

Ion	Ratio	Lower	Upper
77	100		
123	17.0	16.9	59.7
65	0.0	16.5	20.9#

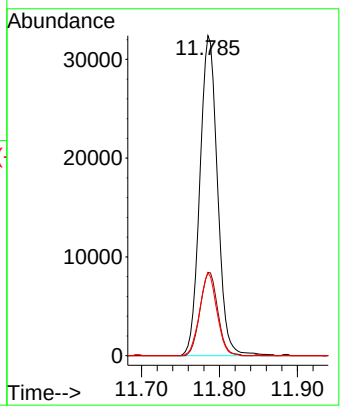




#81
p-Isopropyltoluene
Concen: 1.975 ug/l
RT: 11.785 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:119 Resp: 5094

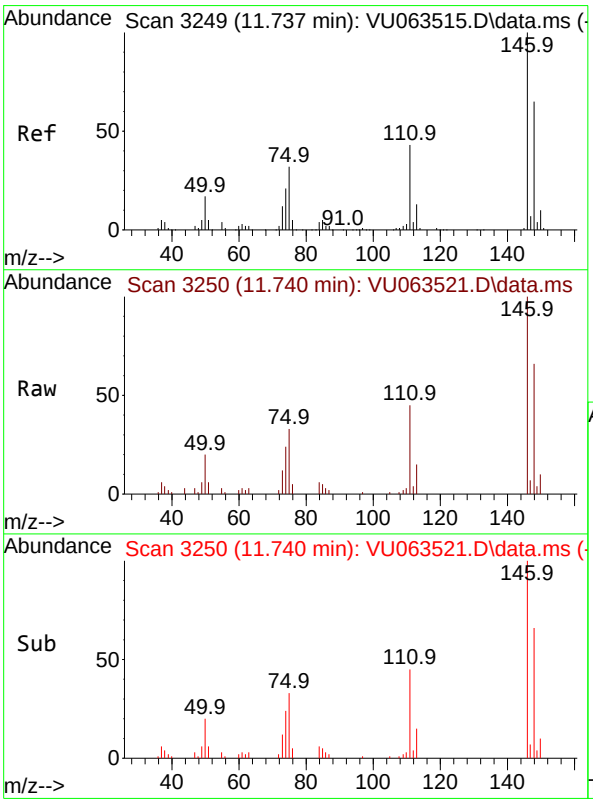
Ion	Ratio	Lower	Upper
119	100		
134	26.0	21.1	31.7
91	25.1	19.8	29.8



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

Manual Integrations
APPROVED

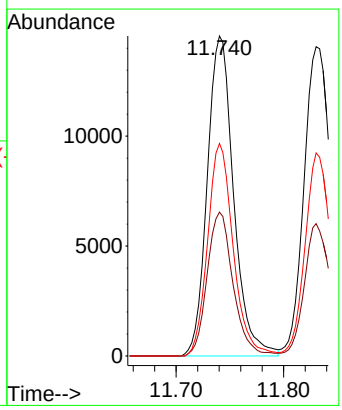
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

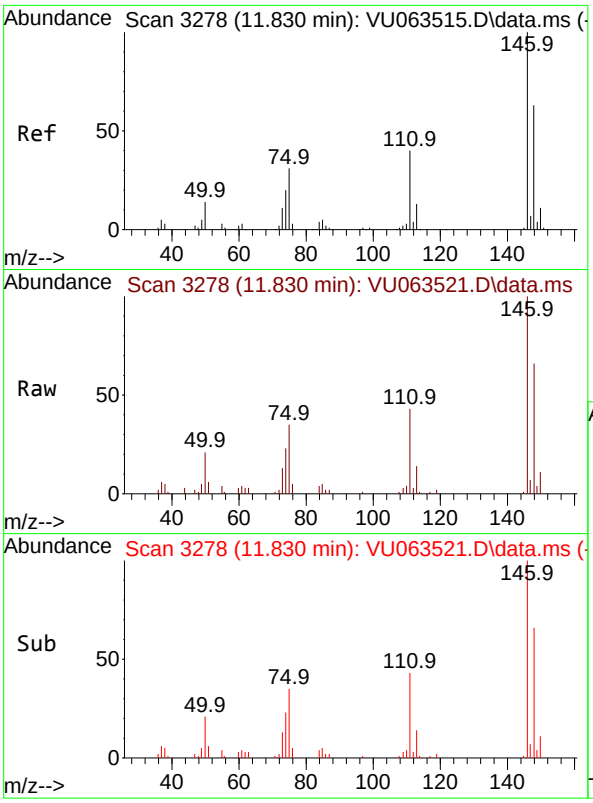


#82
1,3-Dichlorobenzene
Concen: 1.916 ug/l
RT: 11.740 min Scan# 3250
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:146 Resp: 24826

Ion	Ratio	Lower	Upper
146	100		
111	44.3	33.8	50.6
148	64.5	51.5	77.3

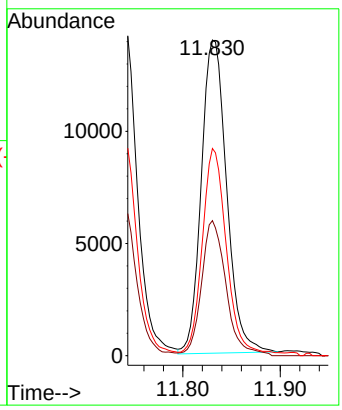




#83
1,4-Dichlorobenzene
Concen: 1.944 ug/l
RT: 11.830 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:146 Resp: 2521

Ion	Ratio	Lower	Upper
146	100		
111	41.7	32.0	48.0
148	61.9	50.2	75.2



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

Manual Integrations
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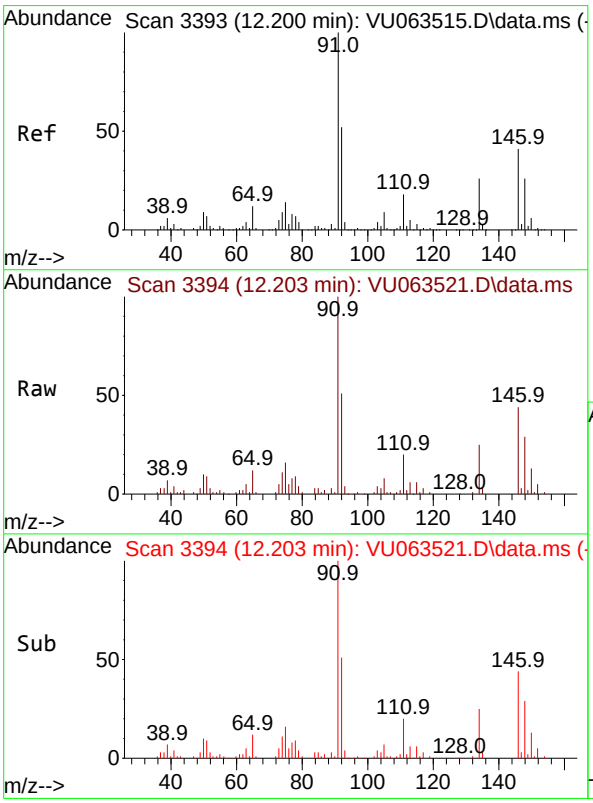
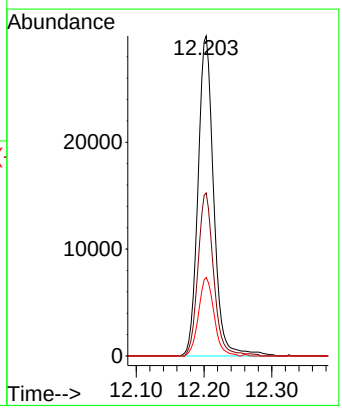
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

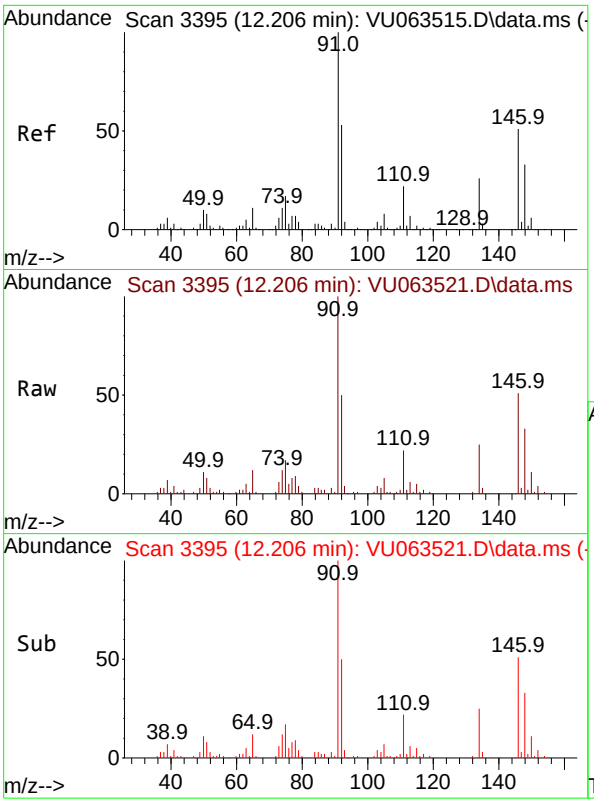


#84
n-Butylbenzene
Concen: 2.011 ug/l
RT: 12.203 min Scan# 3394
Delta R.T. 0.003 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 91 Resp: 48117

Ion	Ratio	Lower	Upper
91	100		
92	51.1	41.5	62.3
134	24.2	20.6	30.8





#85
1,2-Dichlorobenzene
Concen: 1.930 ug/l
RT: 12.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

Tgt Ion:146 Resp: 2350

Ion	Ratio	Lower	Upper
146	100		
111	45.8	21.7	65.1
148	65.4	31.8	95.3

Manual Integrations
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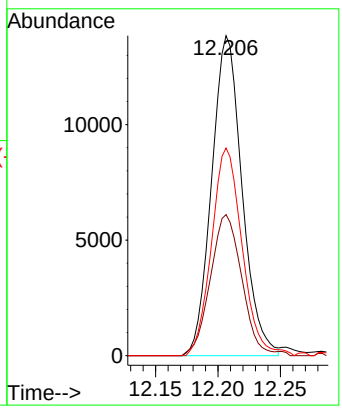
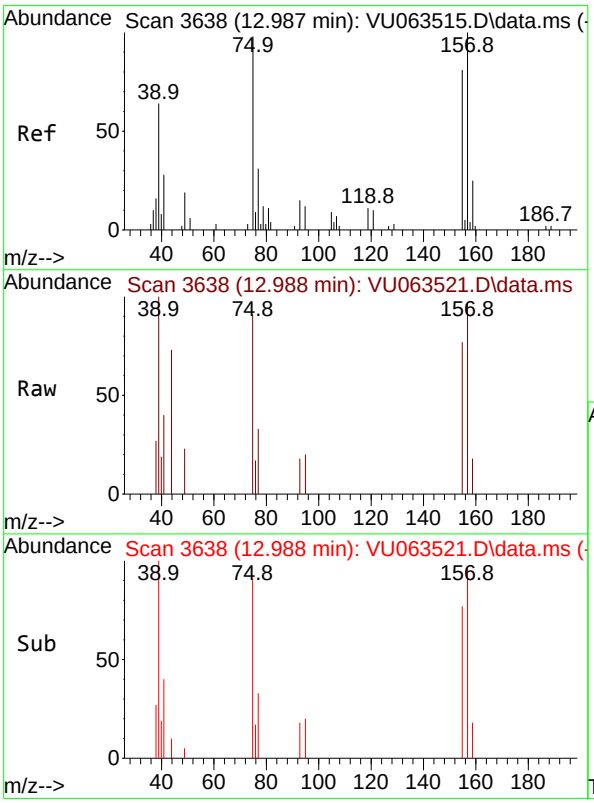
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

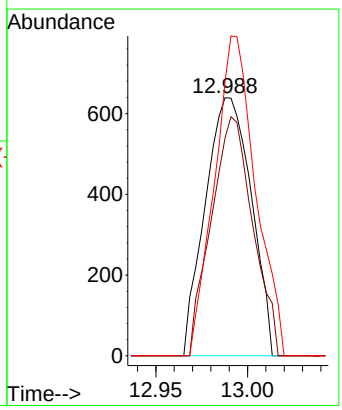


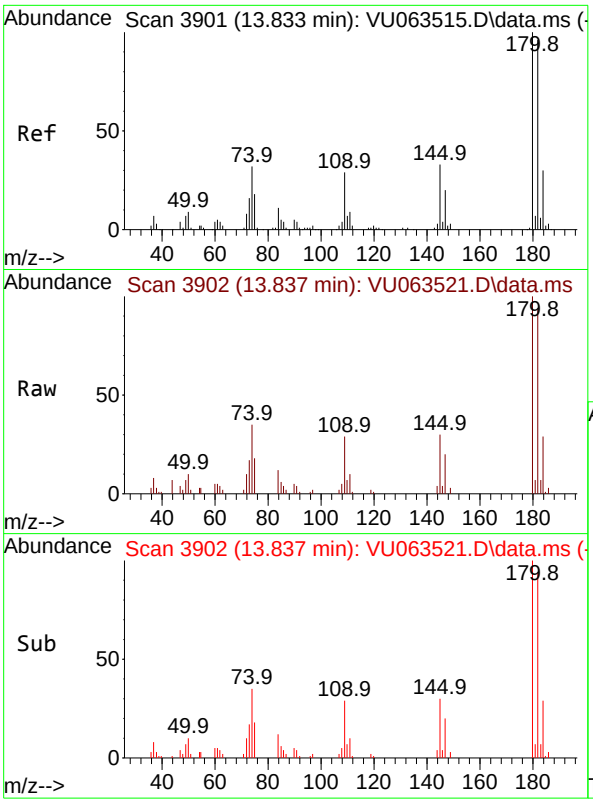


#86
1,2-Dibromo-3-Chloropropane
Concen: 1.706 ug/l
RT: 12.988 min Scan# 3638
Delta R.T. 0.001 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion: 75 Resp: 1114

Ion	Ratio	Lower	Upper
75	100		
155	83.8	65.8	98.6
157	110.8	81.4	122.2





#87
1,2,4-Trichlorobenzene
Concen: 1.850 ug/l
RT: 13.837 min Scan# 3
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

Tgt Ion:180 Resp: 1400

Ion	Ratio	Lower	Upper
180	100		
182	93.7	76.2	114.4
145	31.6	26.2	39.2

Manual Integrations
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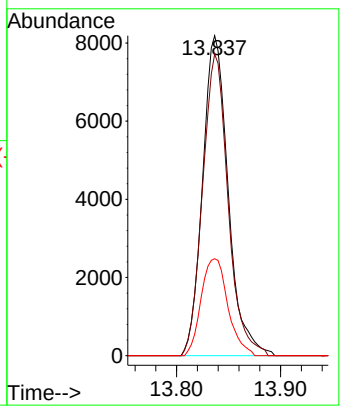
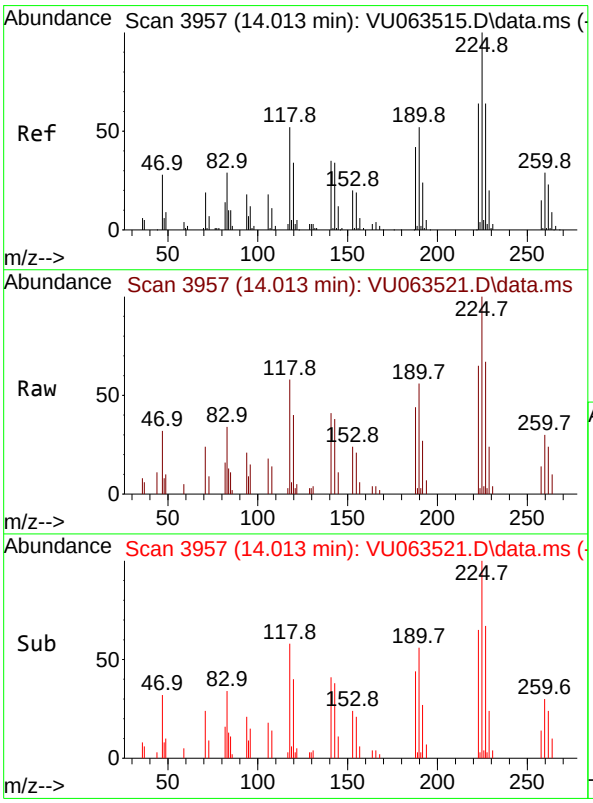
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

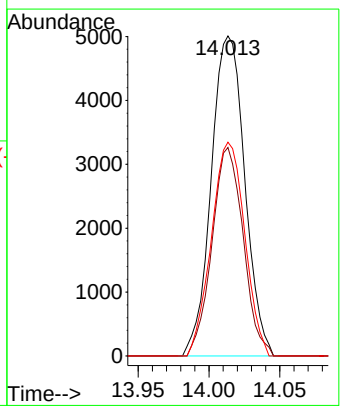


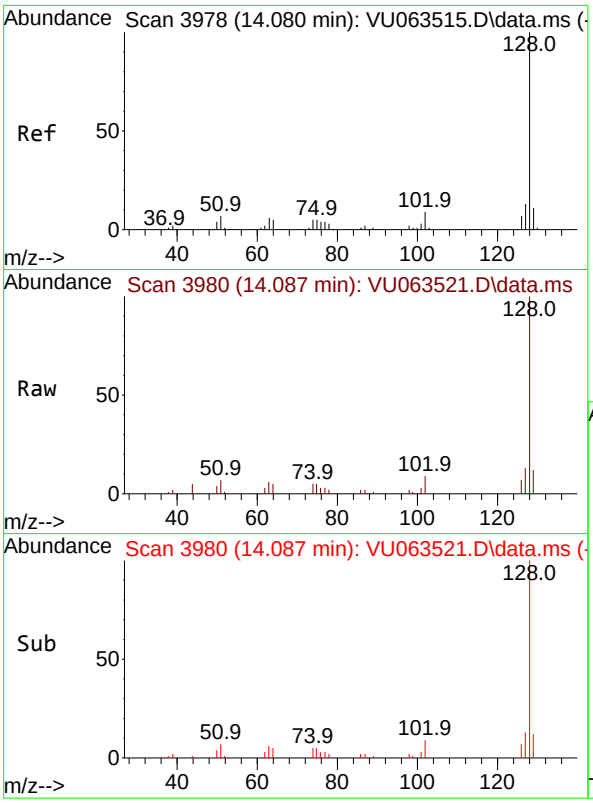


#88
Hexachlorobutadiene
Concen: 1.921 ug/l
RT: 14.013 min Scan# 3957
Delta R.T. 0.000 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:225 Resp: 8260

Ion	Ratio	Lower	Upper
225	100		
223	60.6	50.8	76.2
227	66.2	51.0	76.6

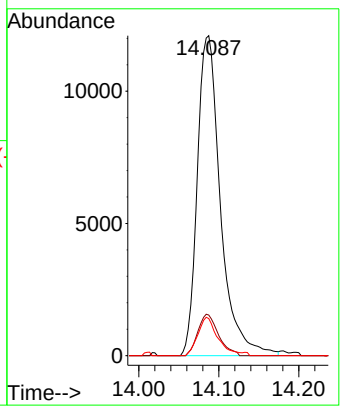




#89
Naphthalene
Concen: 1.802 ug/l
RT: 14.087 min Scan# 3
Delta R.T. 0.007 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:128 Resp: 2444

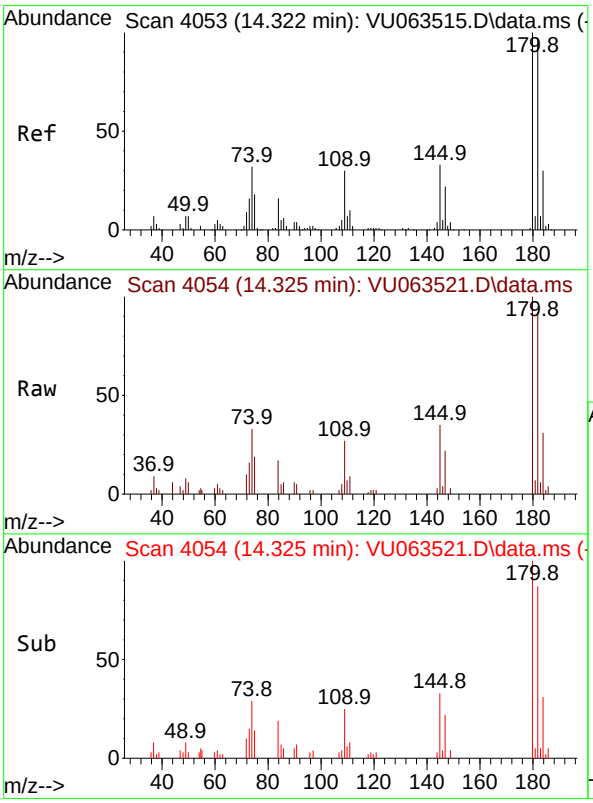
Ion	Ratio	Lower	Upper
128	100		
127	11.5	10.2	15.4
129	10.5	8.8	13.2



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBS01

Manual Integrations
APPROVED

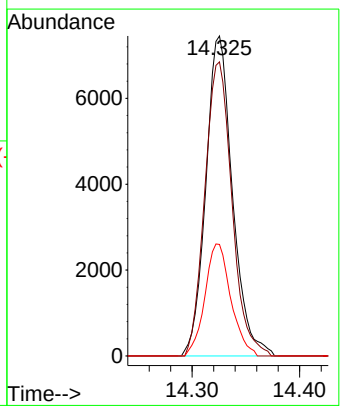
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025



#90
1,2,3-Trichlorobenzene
Concen: 1.836 ug/l
RT: 14.325 min Scan# 4054
Delta R.T. 0.004 min
Lab File: VU063521.D
Acq: 17 Jul 2025 12:43

Tgt Ion:180 Resp: 12843

Ion	Ratio	Lower	Upper
180	100		
182	93.4	78.0	117.0
145	34.0	27.3	40.9



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU0717WBSD01	SDG No.:	Q2552
Lab Sample ID:	VU0717WBSD01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063522.D	1	07/17/25 13:13	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	2.00		0.12	0.50	ug/L
74-87-3	Chloromethane	2.20		0.13	0.50	ug/L
75-01-4	Vinyl Chloride	2.10		0.12	0.50	ug/L
74-83-9	Bromomethane	2.30		0.15	0.50	ug/L
75-00-3	Chloroethane	2.10		0.14	0.50	ug/L
109-99-9	Tetrahydrofuran	4.10		0.42	1.00	ug/L
75-69-4	Trichlorofluoromethane	2.10		0.20	0.50	ug/L
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.20		0.11	0.50	ug/L
75-65-0	tert-Butyl Alcohol	21.0		3.60	10.0	ug/L
60-29-7	Diethyl Ether	2.20		0.13	0.50	ug/L
75-35-4	1,1-Dichloroethene	2.10		0.13	0.50	ug/L
107-13-1	Acrylonitrile	4.20		0.44	1.00	ug/L
67-64-1	Acetone	10.4		0.97	2.50	ug/L
75-15-0	Carbon Disulfide	1.90		0.12	0.50	ug/L
1634-04-4	Methyl tert-Butyl Ether	2.20		0.11	0.50	ug/L
96-33-3	Methyl acrylate	2.00		0.33	0.50	ug/L
75-09-2	Methylene Chloride	2.30		0.44	0.50	ug/L
156-60-5	trans-1,2-Dichloroethene	2.10		0.14	0.50	ug/L
75-34-3	1,1-Dichloroethane	2.20		0.13	0.50	ug/L
110-82-7	Cyclohexane	2.20		0.14	0.50	ug/L
78-93-3	2-Butanone	10.5		0.72	2.50	ug/L
56-23-5	Carbon Tetrachloride	2.00		0.13	0.50	ug/L
594-20-7	2,2-Dichloropropane	2.00		0.12	0.50	ug/L
156-59-2	cis-1,2-Dichloroethene	2.10		0.13	0.50	ug/L
74-97-5	Bromochloromethane	2.10		0.17	0.50	ug/L
67-66-3	Chloroform	2.20		0.17	0.50	ug/L
71-55-6	1,1,1-Trichloroethane	2.10		0.12	0.50	ug/L
108-87-2	Methylcyclohexane	1.90		0.090	0.50	ug/L
563-58-6	1,1-Dichloropropene	2.20		0.11	0.50	ug/L
107-12-0	Propionitrile	11.4		1.20	2.50	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:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU0717WBSD01	SDG No.:	Q2552
Lab Sample ID:	VU0717WBSD01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063522.D	1	07/17/25 13:13	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-43-2	Benzene	1.80		0.11	0.50	ug/L
107-06-2	1,2-Dichloroethane	1.80		0.14	0.50	ug/L
79-01-6	Trichloroethene	1.90		0.13	0.50	ug/L
78-87-5	1,2-Dichloropropane	2.00		0.13	0.50	ug/L
109-69-3	1-Chlorobutane	2.00		0.12	0.50	ug/L
74-95-3	Dibromomethane	2.00		0.15	0.50	ug/L
75-27-4	Bromodichloromethane	1.80		0.13	0.50	ug/L
108-10-1	4-Methyl-2-Pentanone	10.1		0.63	2.50	ug/L
108-88-3	Toluene	2.00		0.11	0.50	ug/L
10061-02-6	t-1,3-Dichloropropene	1.70		0.11	0.50	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.80		0.11	0.50	ug/L
79-00-5	1,1,2-Trichloroethane	2.10		0.13	0.50	ug/L
142-28-9	1,3-Dichloropropane	2.10		0.12	0.50	ug/L
591-78-6	2-Hexanone	10.3		0.65	2.50	ug/L
124-48-1	Dibromochloromethane	1.80		0.20	0.50	ug/L
106-93-4	1,2-Dibromoethane	2.00		0.13	0.50	ug/L
127-18-4	Tetrachloroethene	2.00		0.14	0.50	ug/L
108-90-7	Chlorobenzene	2.00		0.11	0.50	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.80		0.13	0.50	ug/L
67-72-1	Hexachloroethane	1.70		0.12	0.50	ug/L
100-41-4	Ethyl Benzene	2.00		0.41	0.50	ug/L
179601-23-1	m/p-Xylenes	4.00		0.73	1.00	ug/L
1330-20-7	Total Xylenes	6.00		1.09	1.50	ug/L
95-47-6	o-Xylene	2.00		0.36	0.50	ug/L
100-42-5	Styrene	2.00		0.38	0.50	ug/L
75-25-2	Bromoform	1.60		0.31	0.50	ug/L
98-82-8	Isopropylbenzene	2.10		0.38	0.50	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.00		0.13	0.50	ug/L
96-18-4	1,2,3-Trichloropropane	1.70		0.19	0.50	ug/L
108-86-1	Bromobenzene	2.00		0.13	0.50	ug/L
103-65-1	n-propylbenzene	2.00		0.42	0.50	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:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU0717WBSD01	SDG No.:	Q2552
Lab Sample ID:	VU0717WBSD01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063522.D	1	07/17/25 13:13	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-49-8	2-Chlorotoluene	2.00		0.27	0.50	ug/L
108-67-8	1,3,5-Trimethylbenzene	2.00		0.37	0.50	ug/L
106-43-4	4-Chlorotoluene	2.00		0.27	0.50	ug/L
98-06-6	tert-Butylbenzene	2.00		0.37	0.50	ug/L
95-63-6	1,2,4-Trimethylbenzene	2.00		0.40	0.50	ug/L
135-98-8	sec-Butylbenzene	2.00		0.36	0.50	ug/L
99-87-6	p-Isopropyltoluene	2.00		0.42	0.50	ug/L
541-73-1	1,3-Dichlorobenzene	2.00		0.13	0.50	ug/L
106-46-7	1,4-Dichlorobenzene	2.00		0.13	0.50	ug/L
104-51-8	n-Butylbenzene	2.10		0.43	0.50	ug/L
95-50-1	1,2-Dichlorobenzene	2.00		0.14	0.50	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	2.00		0.24	0.50	ug/L
120-82-1	1,2,4-Trichlorobenzene	2.00		0.21	0.50	ug/L
87-68-3	Hexachlorobutadiene	2.00		0.14	0.50	ug/L
91-20-3	Naphthalene	2.10		0.33	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	2.00		0.31	0.50	ug/L
74-88-4	Iodomethane	1.90		0.090	1.00	ug/L
107-05-1	Allyl Chloride	2.10		0.13	0.50	ug/L
126-98-7	Methacrylonitrile	2.00		0.24	0.50	ug/L
108-20-3	Isopropyl Ether	2.20		0.14	0.50	ug/L
80-62-6	Methyl methacrylate	3.70		0.24	1.00	ug/L
SURROGATES						
2199-69-1	1,2-Dichlorobenzene-d4	1.10		70 - 130	110%	SPK: 1
460-00-4	4-Bromofluorobenzene	1.00		70 - 130	103%	SPK: 1
INTERNAL STANDARDS						
462-06-6	Fluorobenzene	21700	6.097			
	Tert-Amyl methyl ether					

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU0717WBSD01	SDG No.:	Q2552
Lab Sample ID:	VU0717WBSD01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VU063522.D	1	07/17/25 13:13	VU071725

CAS Number	Parameter	Conc.	Qualifier	MDL	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_U\Data\VU071725\
Data File : VU063522.D
Acq On : 17 Jul 2025 13:13
Operator : MD/SY
Sample : VU0717WBSD01
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 04:11:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.097	96	21661	1.000 ug/l	# 0.00
System Monitoring Compounds					
57) 4-Bromofluorobenzene	10.627	95	8475	1.033 ug/l	0.00
Spiked Amount 1.000			Recovery = 103.000%		
68) 1,2-Dichlorobenzene-d4	12.187	152	8367	1.103 ug/l	0.00
Spiked Amount 1.000			Recovery = 110.000%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.380	85	12499	1.957 ug/l	98
3) Chloromethane	1.518	50	13003	2.190 ug/l	99
4) Vinyl Chloride	1.599	62	15770	2.086 ug/l	97
5) Bromomethane	1.846	94	13288	2.330 ug/l	98
6) Chloroethane	1.923	64	9681	2.120 ug/l	99
7) Trichlorofluoromethane	2.126	101	23147	2.132 ug/l	98
8) 1,1,2-Trichloro-1,2,2-...	2.570	101	12255	2.160 ug/l	99
9) 1,1-Dichloroethene	2.566	96	11828	2.103 ug/l	95
10) Iodomethane	2.708	142	8884	1.876 ug/l	99
11) Allyl Chloride	2.907	41	16934	2.084 ug/l	90
12) Acrylonitrile	3.309	53	5855	4.163 ug/l	94
13) Acetone	2.618	43	11698	10.381 ug/l	97
14) Carbon Disulfide	2.779	76	34405	1.894 ug/l	97
15) Methylene Chloride	3.026	84	15282	2.308 ug/l	94
16) trans-1,2-Dichloroethene	3.335	96	13484	2.111 ug/l	98
17) 1,1-Dichloroethane	3.849	63	25505	2.155 ug/l	99
18) 2-Butanone	4.718	43	18247	10.456 ug/l	95
19) Cyclohexane	5.357	56	21549	2.150 ug/l	98
20) Methylcyclohexane	6.740	83	18558	1.905 ug/l	98
21) 2,2-Dichloropropane	4.644	77	20534	2.037 ug/l	100
22) cis-1,2-Dichloroethene	4.647	96	14692	2.120 ug/l	98
23) Diethyl Ether	2.370	59	9212	2.150 ug/l	95
24) tert-Butyl Alcohol	3.197	59	10881	21.035 ug/l	96
25) Methyl tert-Butyl Ether	3.361	73	31736	2.162 ug/l	97
26) Bromochloromethane	4.955	128	6089	2.104 ug/l	92
27) Chloroform	5.068	83	26421	2.187 ug/l	98
28) 1,1,1-Trichloroethane	5.293	97	21787	2.125 ug/l	99
29) 1,1-Dichloropropene	5.502	75	21238	2.236 ug/l	99
30) Carbon Tetrachloride	5.499	117	16882	2.046 ug/l	94
31) Isopropyl Ether	3.994	45	39443	2.207 ug/l	100
32) Ethyl-t-butyl ether	4.505	59	35419	2.142 ug/l	96
33) Tert-Amyl methyl ether	5.943	73	25195	1.756 ug/l	99
34) Propionitrile	4.782	54	6040	11.359 ug/l #	95
35) Benzene	5.753	78	45875	1.798 ug/l	99
36) 1,2-Dichloroethane	5.782	62	14343	1.809 ug/l	99
37) Trichloroethene	6.525	130	12117	1.861 ug/l	99
38) 1,2-Dichloropropane	6.782	63	11764	1.970 ug/l	96
39) Methacrylonitrile	4.972	41	4816	2.038 ug/l	94
40) Methyl acrylate	4.853	55	6941	2.009 ug/l #	95
41) Tetrahydrofuran	5.062	42	5070	4.078 ug/l	98
42) 1-Chlorobutane	5.435	56	25415	2.013 ug/l	95
43) Dibromomethane	6.910	93	6168	1.994 ug/l	93
44) Bromodichloromethane	7.097	83	12700	1.820 ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063522.D
Acq On : 17 Jul 2025 13:13
Operator : MD/SY
Sample : VU0717WBSD01
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 04:11:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 4-Methyl-2-Pentanone	7.798	43	32113	10.071	ug/l		100
46) t-1,4-Dichloro-2-butene	10.823	75	4288m	3.582	ug/l		
47) Methyl methacrylate	6.968	69	9711	3.737	ug/l		98
48) Ethyl methacrylate	8.335	69	9783	1.973	ug/l		100
49) Toluene	7.959	92	27325	1.961	ug/l		100
50) t-1,3-Dichloropropene	8.206	75	9349	1.708	ug/l		99
51) cis-1,3-Dichloropropene	7.602	75	12871	1.752	ug/l		99
52) 1,1,2-Trichloroethane	8.393	97	8548	2.052	ug/l		97
53) 1,3-Dichloropropane	8.569	76	14962	2.081	ug/l		99
54) 2-Hexanone	8.692	43	21753	10.271	ug/l		99
55) Dibromochloromethane	8.801	129	7756	1.762	ug/l		96
56) 1,2-Dibromoethane	8.917	107	7538	2.022	ug/l		99
58) Tetrachloroethene	8.544	164	11718	1.967	ug/l		96
59) Chlorobenzene	9.441	112	31422	1.964	ug/l		98
60) 1,1,1,2-Tetrachloroethane	9.524	131	9309	1.809	ug/l		98
61) Pentachloroethane	11.415	117	6595	1.814	ug/l		94
62) Hexachloroethane	12.466	117	6118	1.699	ug/l		98
63) Ethyl Benzene	9.563	91	54379	1.975	ug/l		97
64) m/p-Xylenes	9.685	106	42437	3.965	ug/l		99
65) o-Xylene	10.094	106	20286	1.972	ug/l		96
66) Styrene	10.110	104	32779	2.000	ug/l		99
67) Bromoform	10.283	173	3723	1.647	ug/l	#	97
69) Isopropylbenzene	10.476	105	51101	2.055	ug/l		100
70) 1,1,2,2-Tetrachloroethane	10.775	83	10327	2.038	ug/l		97
71) 1,2,3-Trichloropropane	10.817	75	7171m	1.742	ug/l		
72) Bromobenzene	10.778	156	12879	2.007	ug/l		95
73) n-propylbenzene	10.897	120	15141	2.023	ug/l		95
74) 2-Chlorotoluene	10.978	126	13109	1.982	ug/l		95
75) 1,3,5-Trimethylbenzene	11.081	105	47178	1.986	ug/l		99
76) 4-Chlorotoluene	11.090	126	13659	2.033	ug/l		99
77) tert-Butylbenzene	11.412	119	45406	2.000	ug/l		98
78) 1,2,4-Trimethylbenzene	11.460	105	47334	2.009	ug/l		97
79) sec-Butylbenzene	11.634	105	62131	2.030	ug/l		98
80) Nitrobenzene	13.219	77	815m	10.269	ug/l		
81) p-Isopropyltoluene	11.785	119	51424	2.012	ug/l		98
82) 1,3-Dichlorobenzene	11.740	146	26072	2.031	ug/l		99
83) 1,4-Dichlorobenzene	11.830	146	25409	1.977	ug/l		95
84) n-Butylbenzene	12.203	91	49653	2.095	ug/l		98
85) 1,2-Dichlorobenzene	12.206	146	23948	1.985	ug/l		100
86) 1,2-Dibromo-3-Chloropr...	12.991	75	1326	2.003	ug/l		97
87) 1,2,4-Trichlorobenzene	13.836	180	15210	2.028	ug/l		98
88) Hexachlorobutadiene	14.013	225	8359	1.962	ug/l		100
89) Naphthalene	14.087	128	28386	2.112	ug/l		99
90) 1,2,3-Trichlorobenzene	14.322	180	14091	2.033	ug/l		98

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

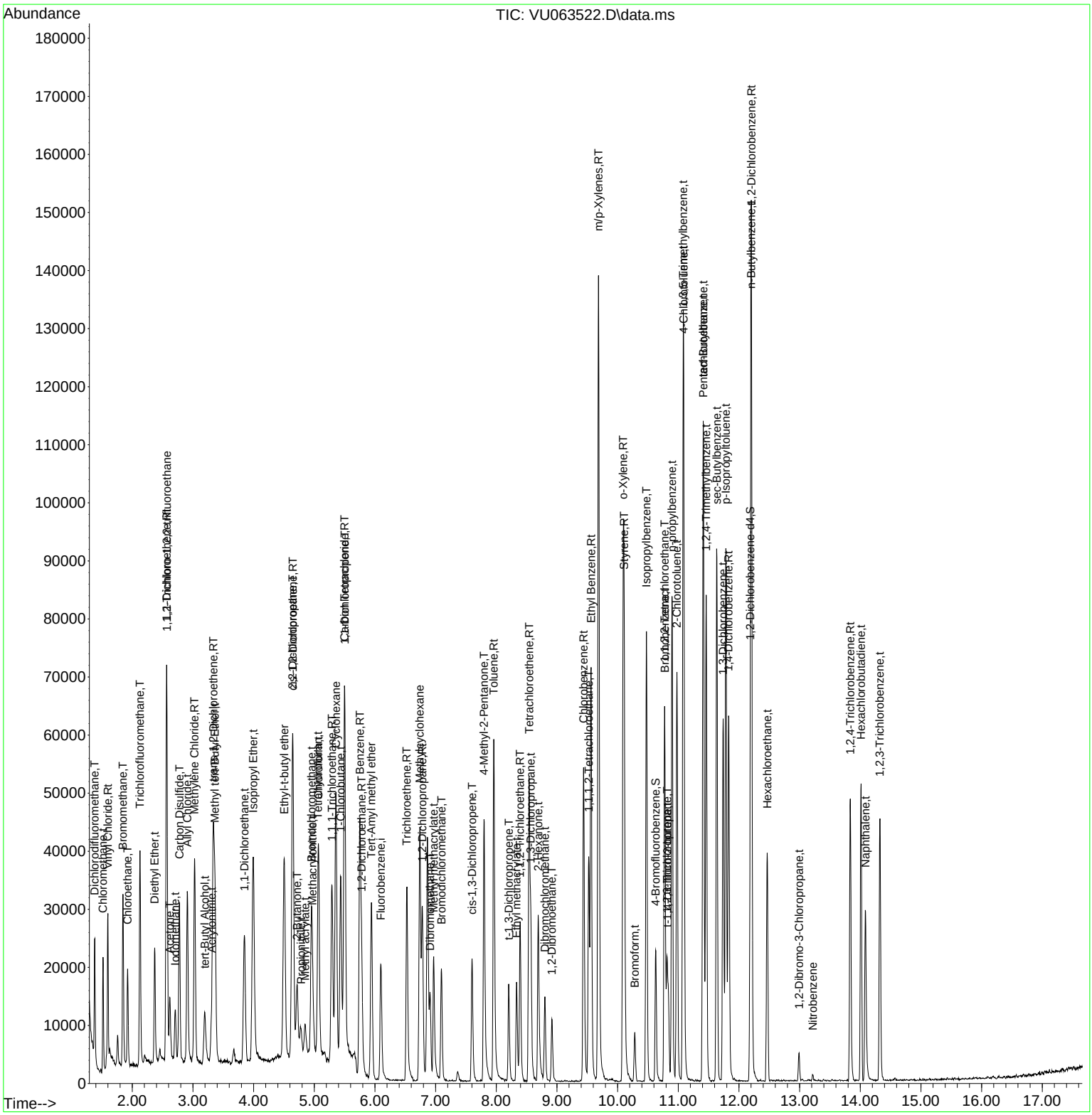
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
Data File : VU063522.D
Acq On : 17 Jul 2025 13:13
Operator : MD/SY
Sample : VU0717WBSD01
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

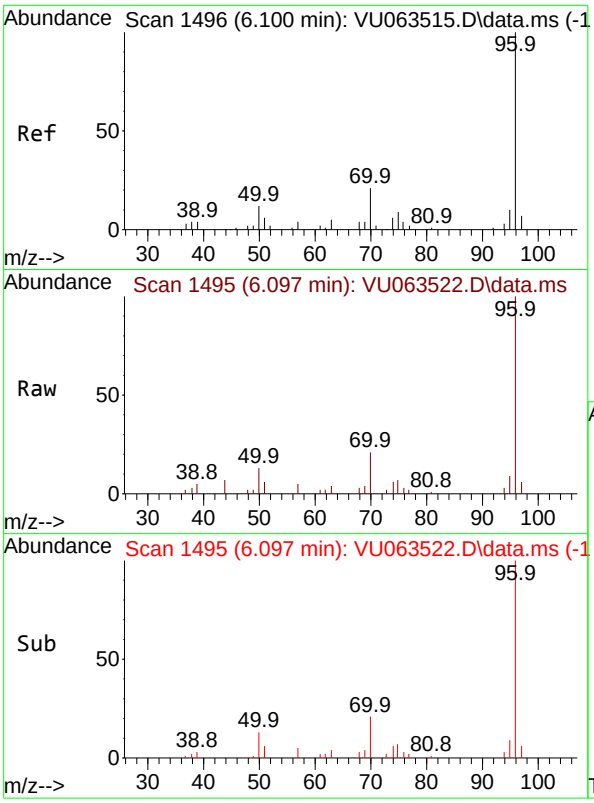
Quant Time: Jul 18 04:11:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Jul 17 03:49:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

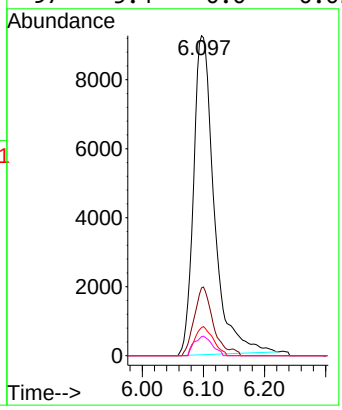




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.097 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 96 Resp: 2166

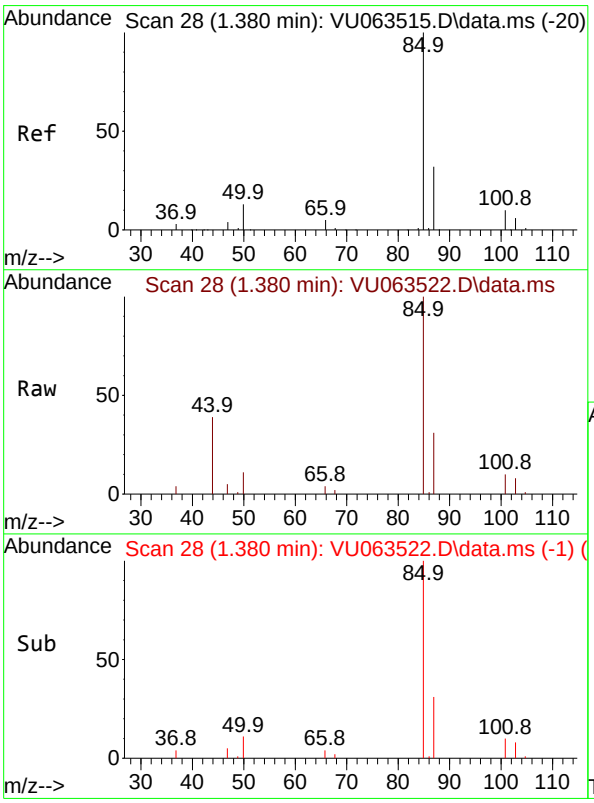
Ion	Ratio	Lower	Upper
96	100		
70	17.3	15.0	22.4
95	8.0	7.4	11.0
97	5.4	0.0	0.0#



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

Manual Integrations
APPROVED

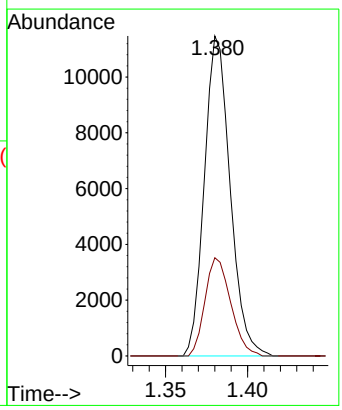
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

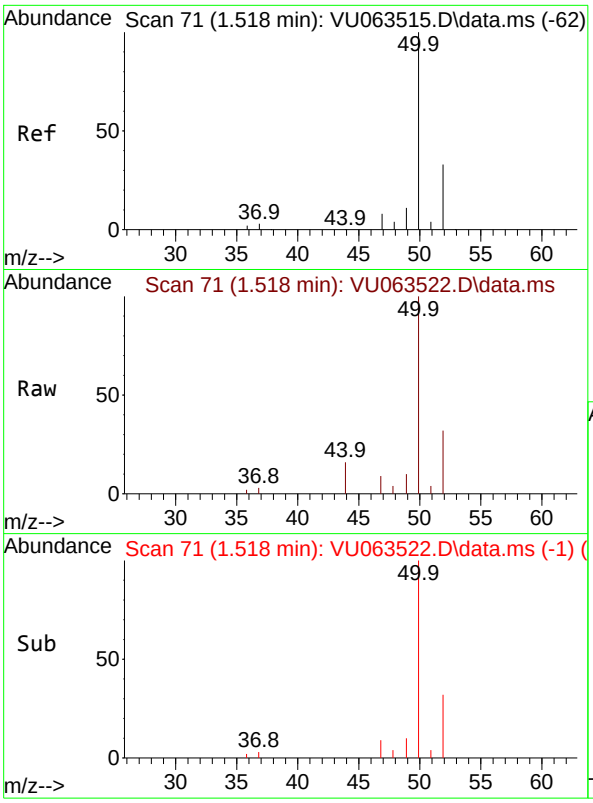


#2
Dichlorodifluoromethane
Concen: 1.957 ug/l
RT: 1.380 min Scan# 28
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 85 Resp: 12499

Ion	Ratio	Lower	Upper
85	100		
87	30.7	16.0	47.9

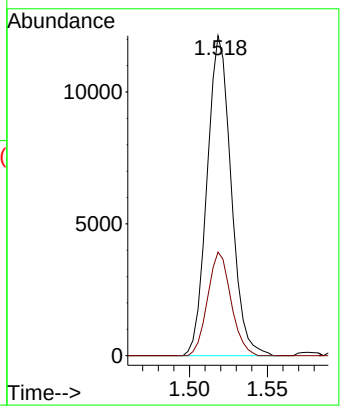




#3
Chloromethane
Concen: 2.190 ug/l
RT: 1.518 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 50 Resp: 1300

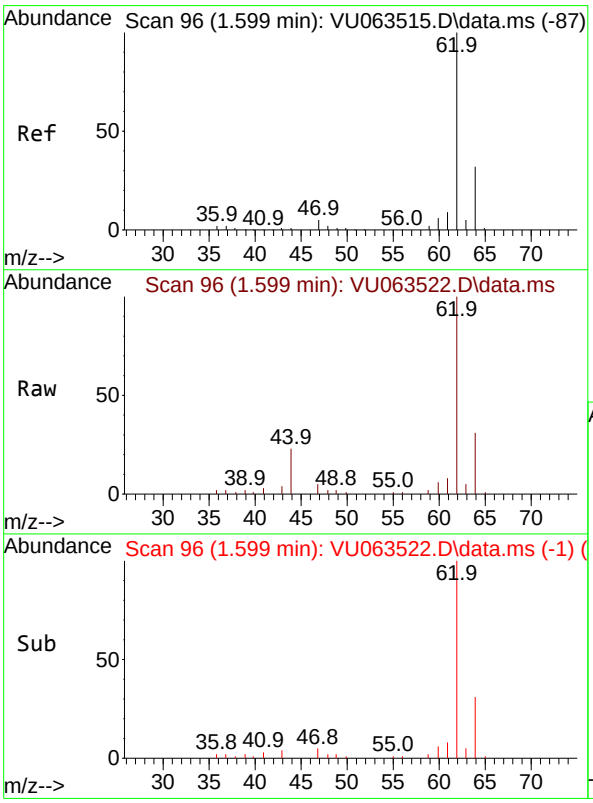
Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.3	39.5



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

Manual Integrations
APPROVED

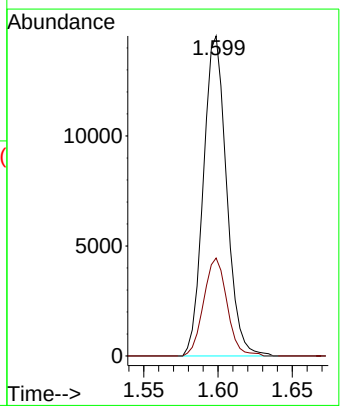
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

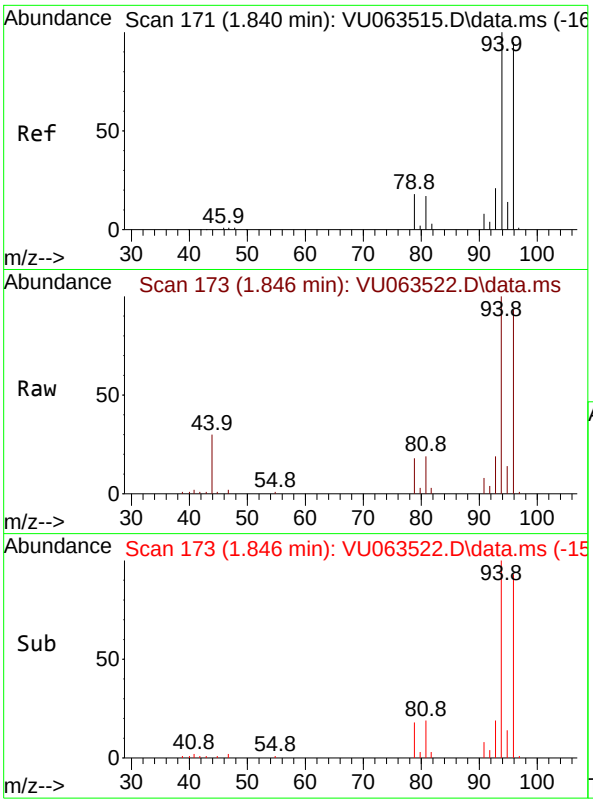


#4
Vinyl Chloride
Concen: 2.086 ug/l
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 62 Resp: 15770

Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.7	38.5

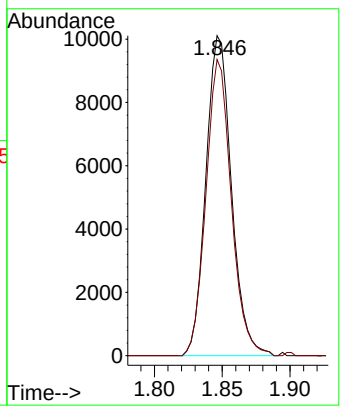




#5
Bromomethane
Concen: 2.330 ug/l
RT: 1.846 min Scan# 1
Delta R.T. 0.006 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 94 Resp: 1328

Ion	Ratio	Lower	Upper
94	100		
96	92.6	75.8	113.6



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

Manual Integrations
APPROVED

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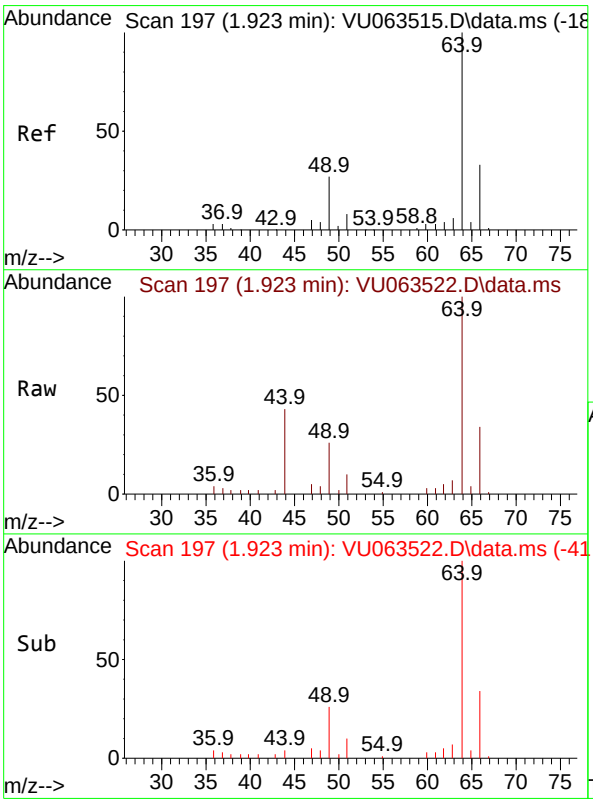
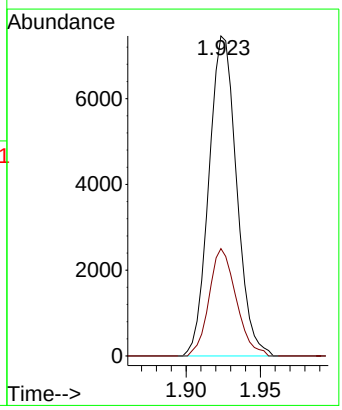
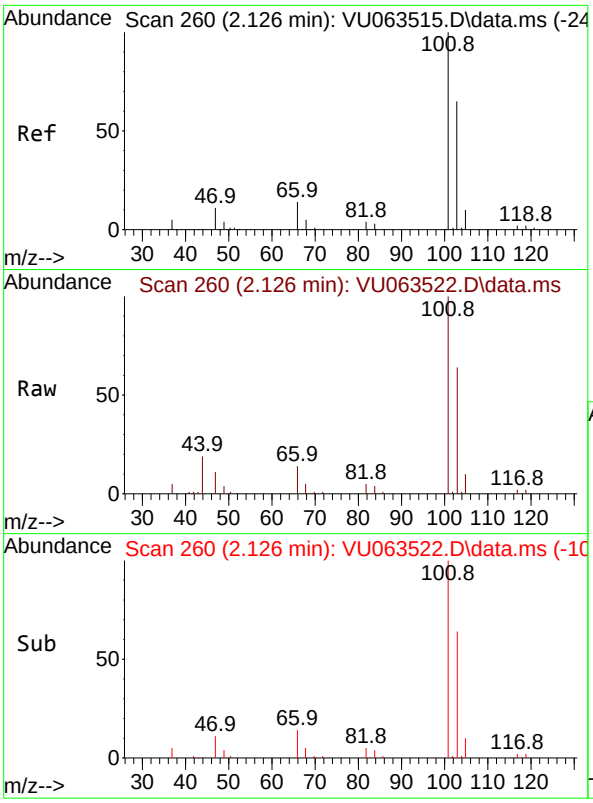


#6
Chloroethane
Concen: 2.120 ug/l
RT: 1.923 min Scan# 197
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 64 Resp: 9681

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.2	39.4





#7
Trichlorofluoromethane
Concen: 2.132 ug/l
RT: 2.126 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:101 Resp: 2314

Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.2	78.4

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

Manual Integrations
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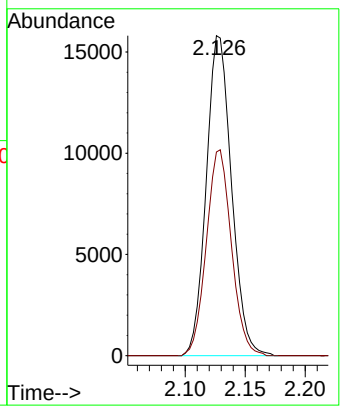
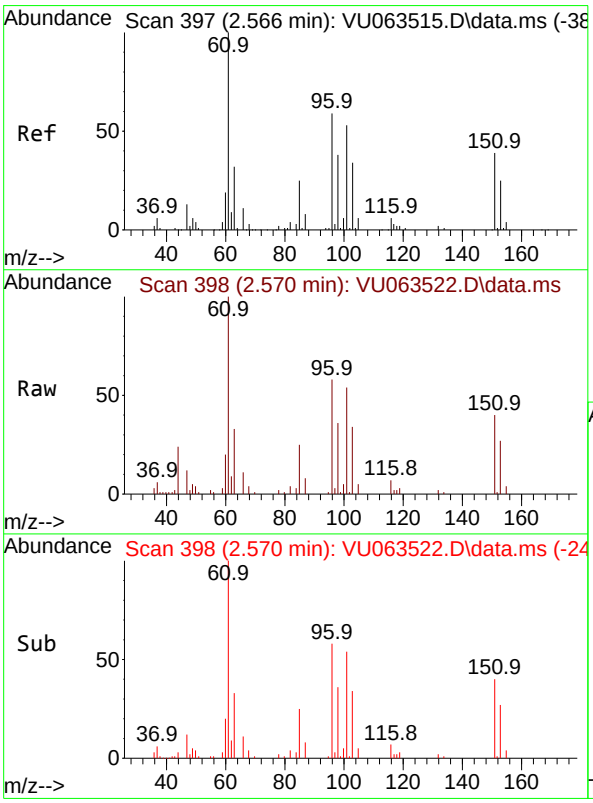
Supervised By :Semsettin Yesilyurt 07/21/2025

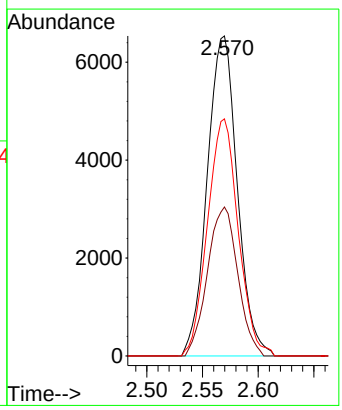


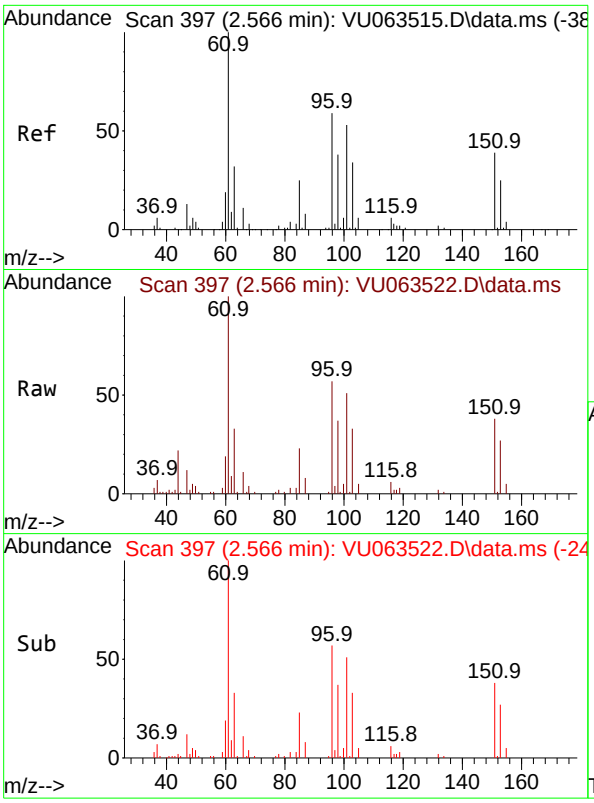


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.160 ug/l
RT: 2.570 min Scan# 398
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:101 Resp: 12255

Ion	Ratio	Lower	Upper
101	100		
85	47.0	37.8	56.6
151	75.8	59.2	88.8





#9
1,1-Dichloroethene
Concen: 2.103 ug/l
RT: 2.566 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 96 Resp: 1182

Ion	Ratio	Lower	Upper
96	100		
61	174.9	0.0	504.3
98	66.0	0.0	126.8

Instrument :
MSVOA_U
ClientSampleId :
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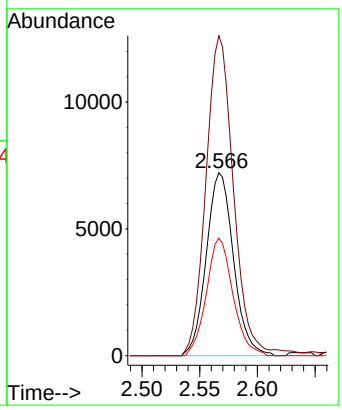
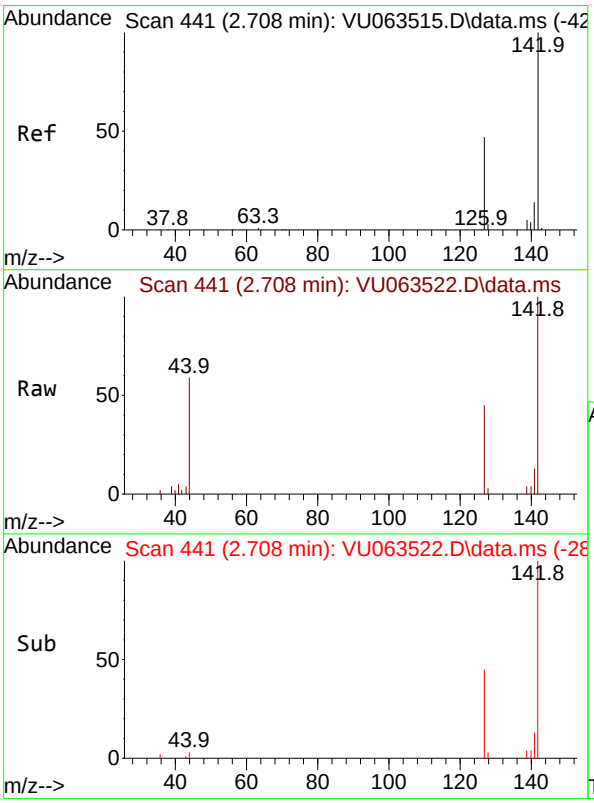
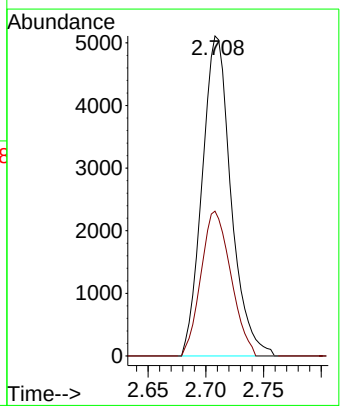


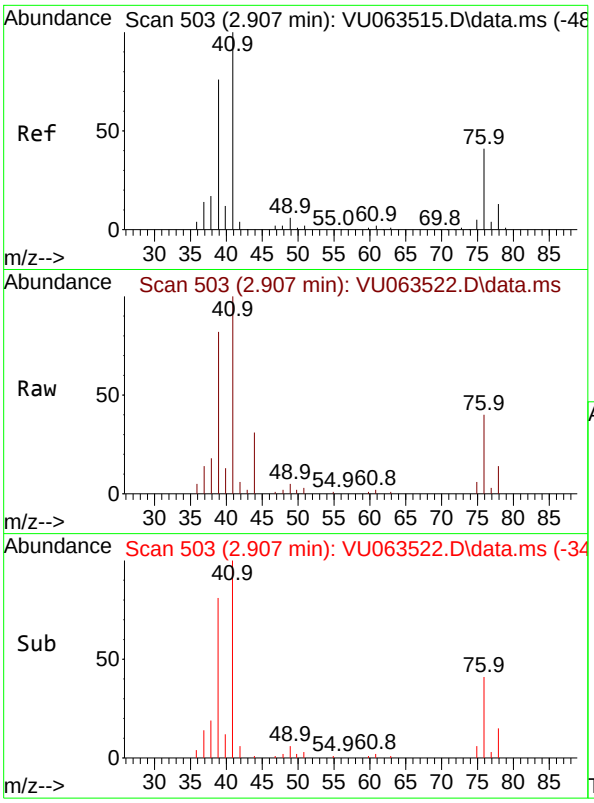


#10
Iodomethane
Concen: 1.876 ug/l
RT: 2.708 min Scan# 441
Delta R.T. -0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:142 Resp: 8884

Ion	Ratio	Lower	Upper
142	100		
127	46.8	37.9	56.9





#11
Allyl Chloride
Concen: 2.084 ug/l
RT: 2.907 min Scan# 5
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 41 Resp: 1693

Ion	Ratio	Lower	Upper
41	100		
39	85.5	61.5	92.3

Instrument :
MSVOA_U
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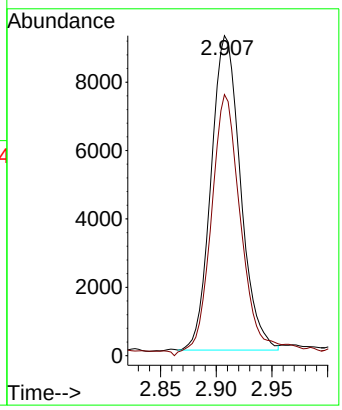
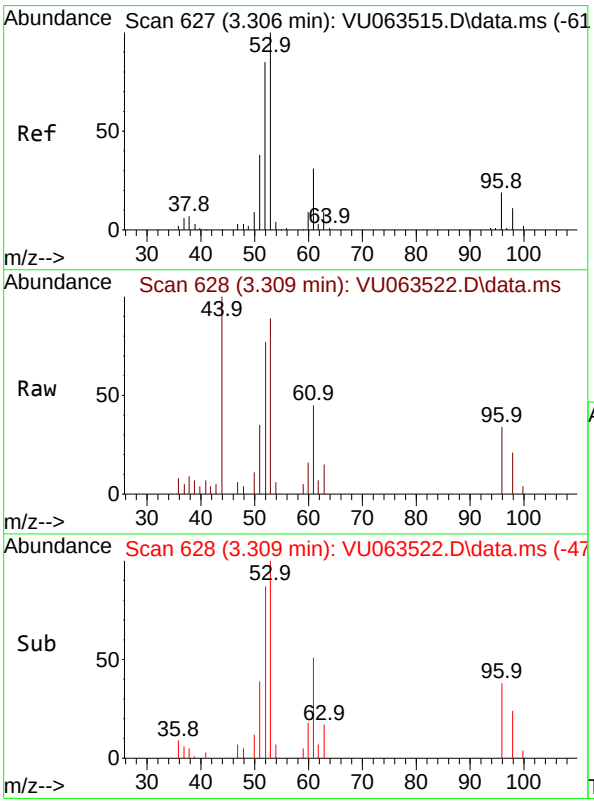
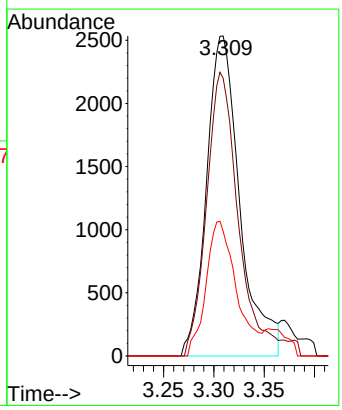


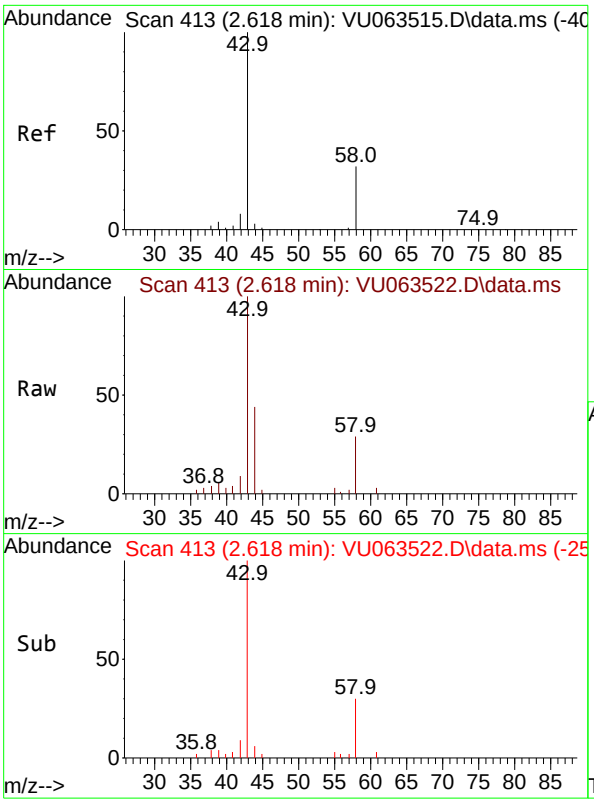


#12
Acrylonitrile
Concen: 4.163 ug/l
RT: 3.309 min Scan# 628
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 53 Resp: 5855

Ion	Ratio	Lower	Upper
53	100		
52	85.0	64.3	96.5
51	38.5	27.8	41.8





#13
Acetone
Concen: 10.381 ug/l
RT: 2.618 min Scan# 4
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 43 Resp: 1169

Ion	Ratio	Lower	Upper
43	100		
58	29.9	25.4	38.0

Instrument :
MSVOA_U
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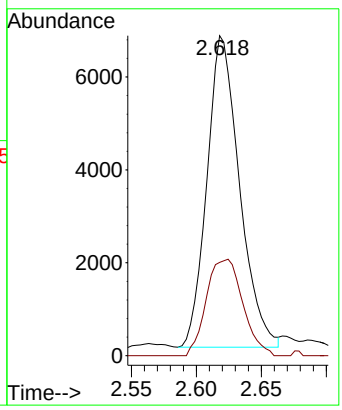
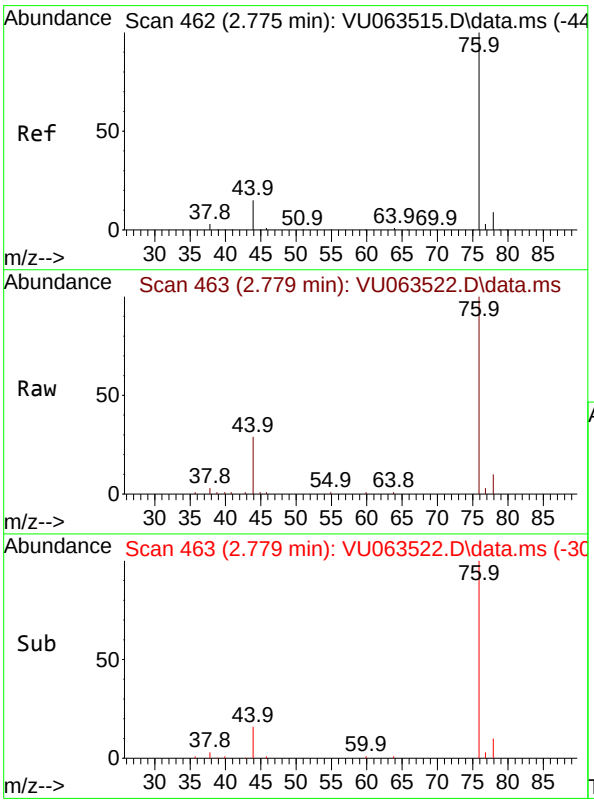
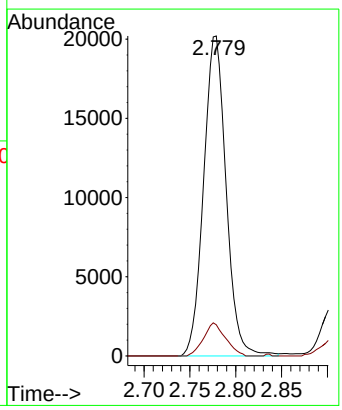


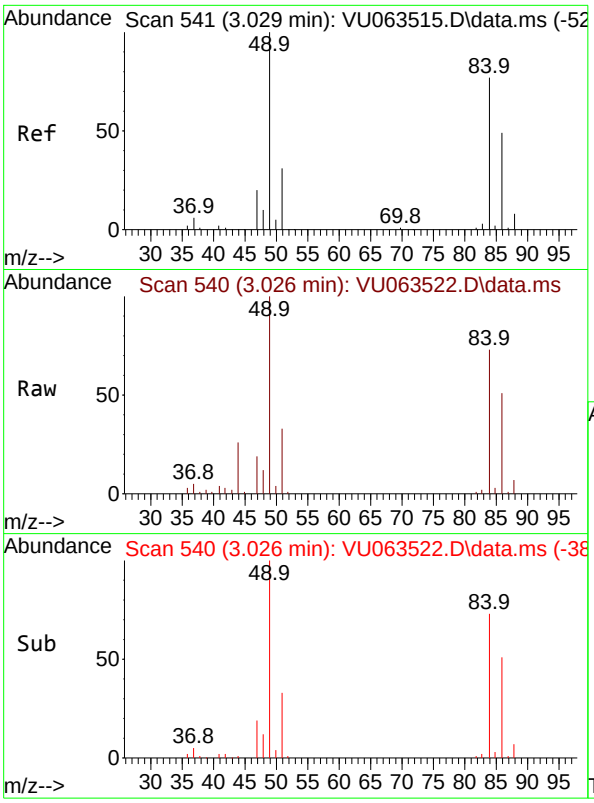


#14
Carbon Disulfide
Concen: 1.894 ug/l
RT: 2.779 min Scan# 463
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 76 Resp: 34405

Ion	Ratio	Lower	Upper
76	100		
78	9.8	7.0	10.6

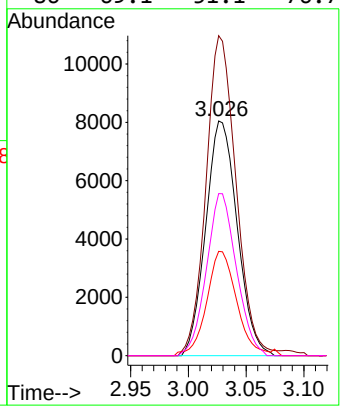




#15
Methylene Chloride
Concen: 2.308 ug/l
RT: 3.026 min Scan# 54
Delta R.T. -0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 84 Resp: 1528

Ion	Ratio	Lower	Upper
84	100		
49	136.3	103.8	155.8
51	43.1	0.0	80.4
86	69.1	51.1	76.7



Instrument :
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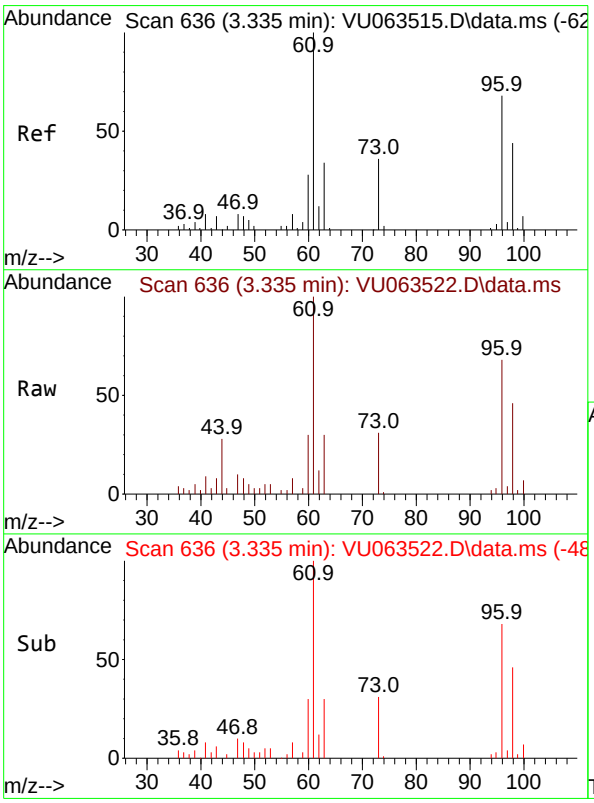
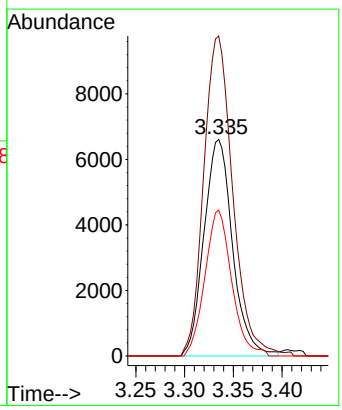
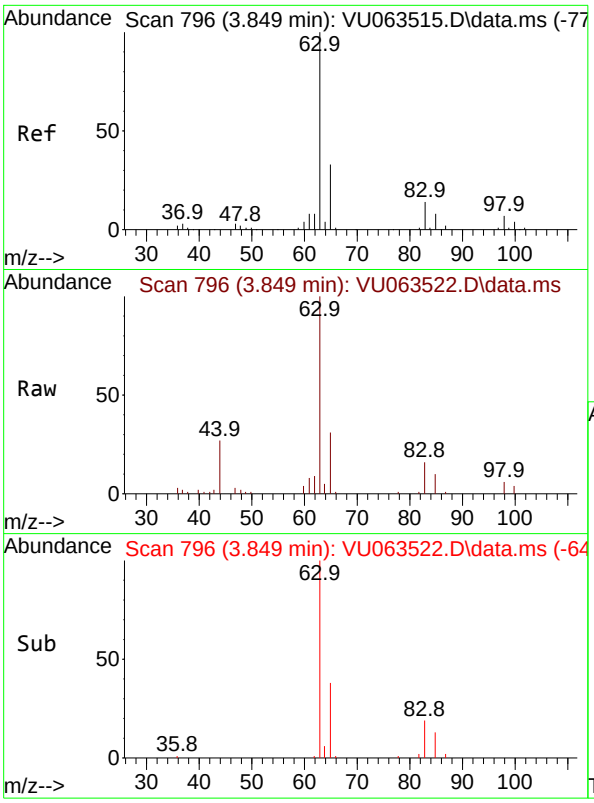


#16
trans-1,2-Dichloroethene
Concen: 2.111 ug/l
RT: 3.335 min Scan# 636
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 96 Resp: 13484

Ion	Ratio	Lower	Upper
96	100		
61	147.7	117.2	175.8
98	67.3	51.4	77.2

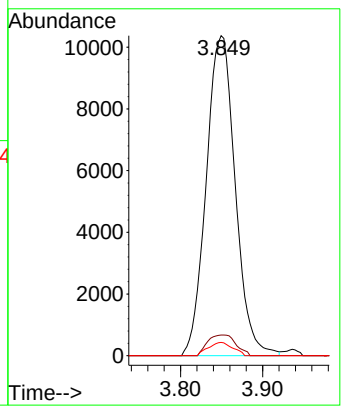




#17
1,1-Dichloroethane
Concen: 2.155 ug/l
RT: 3.849 min Scan# 7
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 63 Resp: 2550

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.4	10.2
100	4.2	2.1	6.2



Instrument :
MSVOA_U
ClientSampleId :
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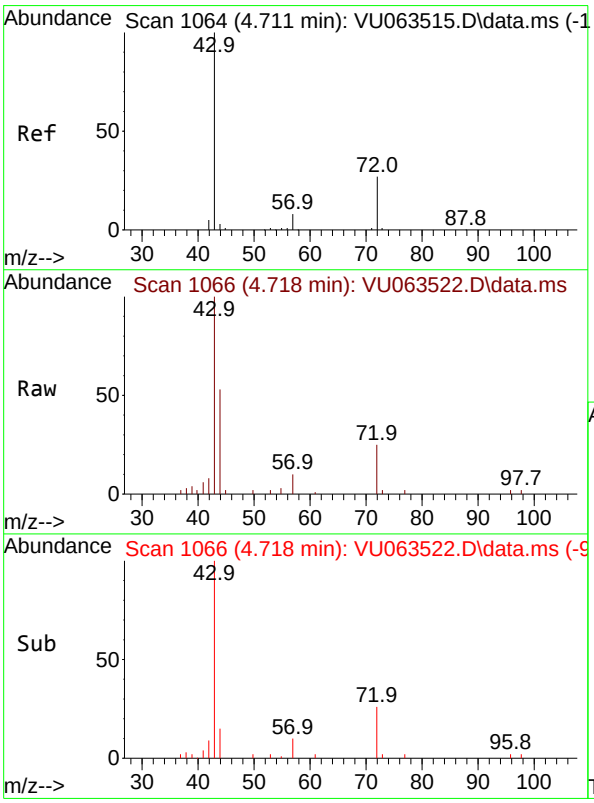
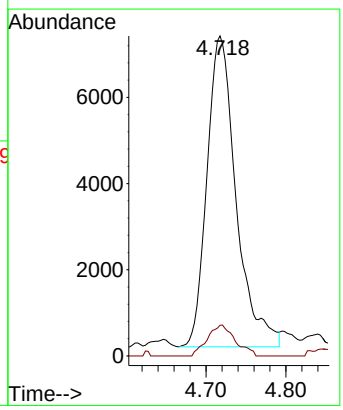
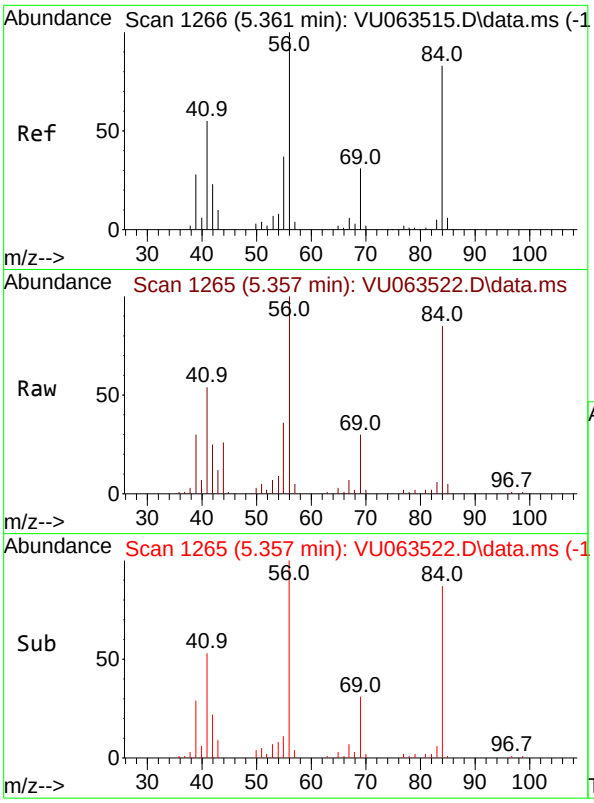


#18
2-Butanone
Concen: 10.456 ug/l
RT: 4.718 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 43 Resp: 18247

Ion	Ratio	Lower	Upper
43	100		
57	9.9	0.0	16.4

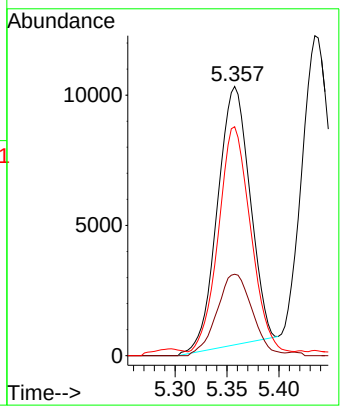




#19
Cyclohexane
Concen: 2.150 ug/l
RT: 5.357 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 56 Resp: 2154

Ion	Ratio	Lower	Upper
56	100		
69	33.0	26.6	39.8
84	85.8	71.0	106.4



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

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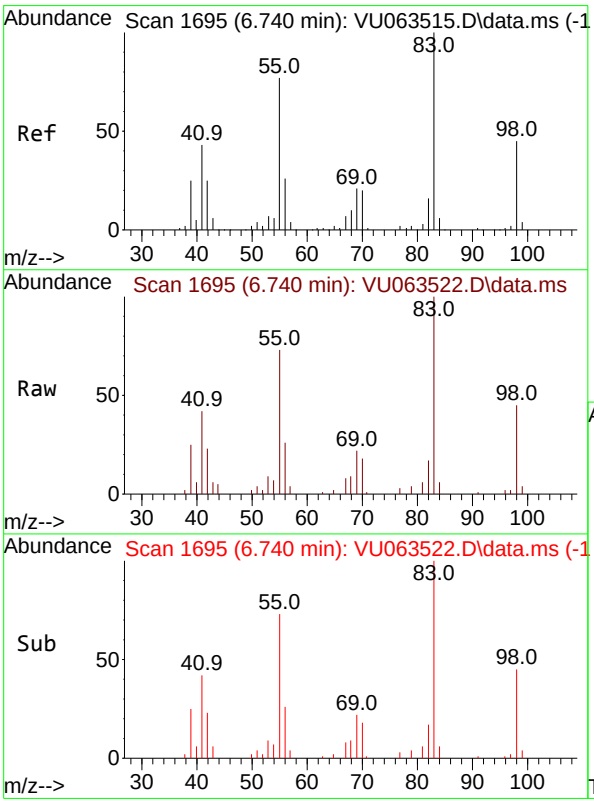
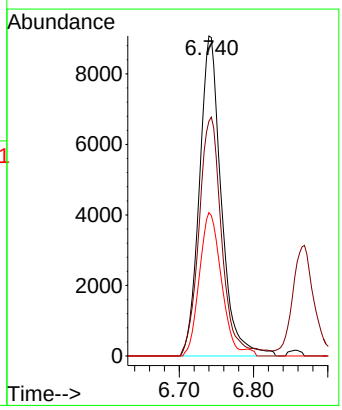
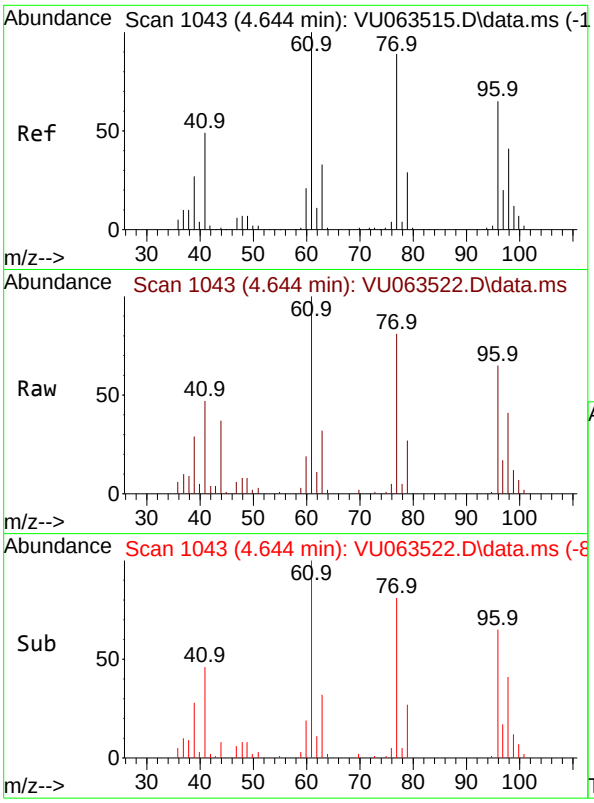


#20
Methylcyclohexane
Concen: 1.905 ug/l
RT: 6.740 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 83 Resp: 18558

Ion	Ratio	Lower	Upper
83	100		
55	75.2	60.6	90.8
98	42.3	35.8	53.8

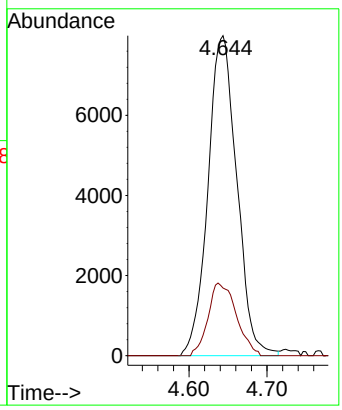




#21
2,2-Dichloropropane
Concen: 2.037 ug/l
RT: 4.644 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 77 Resp: 2053

Ion	Ratio	Lower	Upper
77	100		
97	22.2	17.8	26.8



Instrument :
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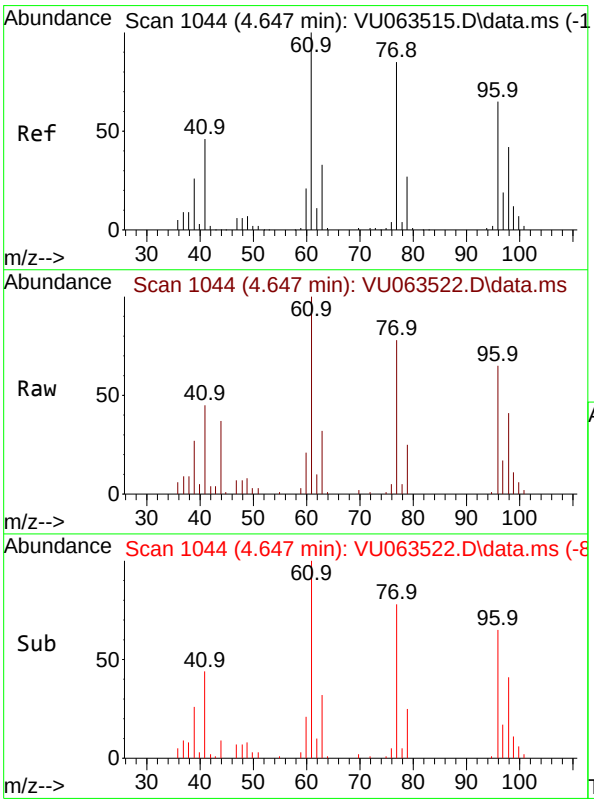
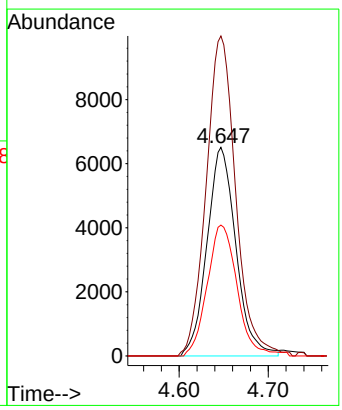
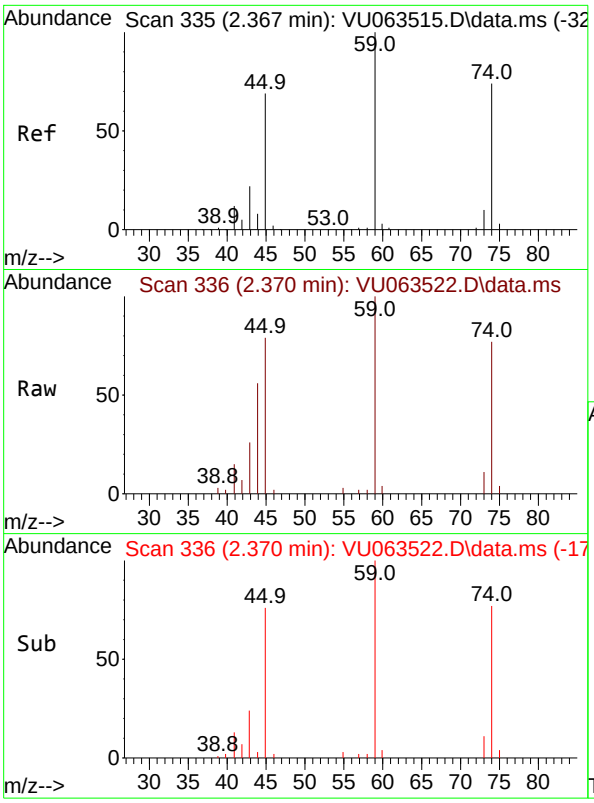


#22
cis-1,2-Dichloroethene
Concen: 2.120 ug/l
RT: 4.647 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 96 Resp: 14692

Ion	Ratio	Lower	Upper
96	100		
61	156.5	0.0	384.7
98	65.0	32.1	96.3





#23
Diethyl Ether
Concen: 2.150 ug/l
RT: 2.370 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 59 Resp: 921

Ion	Ratio	Lower	Upper
59	100		
45	75.3	55.1	82.7
74	74.8	58.2	87.4

Instrument :
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ClientSampleId :
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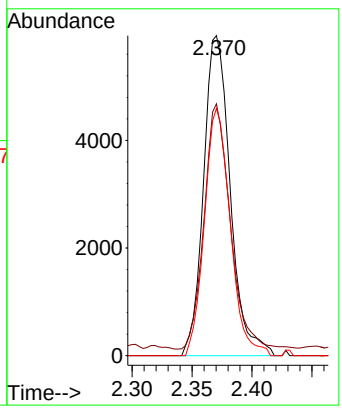
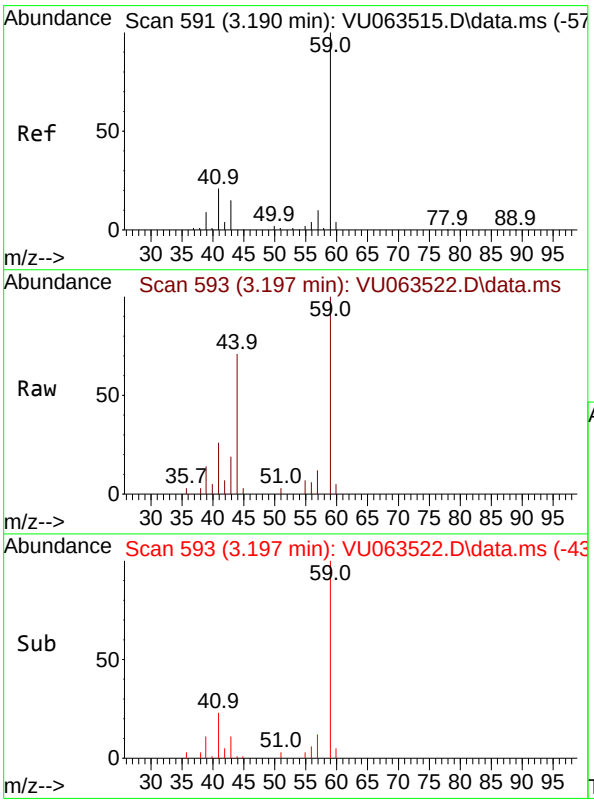
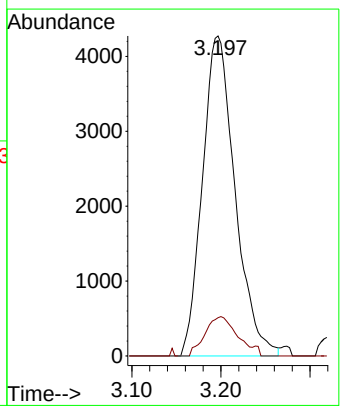


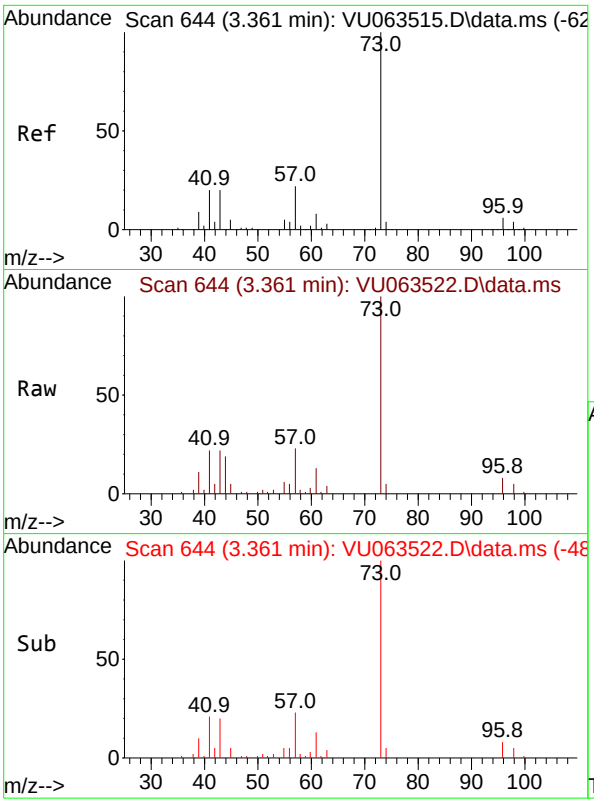


#24
tert-Butyl Alcohol
Concen: 21.035 ug/l
RT: 3.197 min Scan# 593
Delta R.T. 0.006 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 59 Resp: 10881

Ion	Ratio	Lower	Upper
59	100		
57	12.3	8.6	12.8





#25
Methyl tert-Butyl Ether
Concen: 2.162 ug/l
RT: 3.361 min Scan# 64
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 73 Resp: 3173

Ion	Ratio	Lower	Upper
73	100		
43	21.8	16.2	24.2

Instrument :
MSVOA_U
ClientSampleId :
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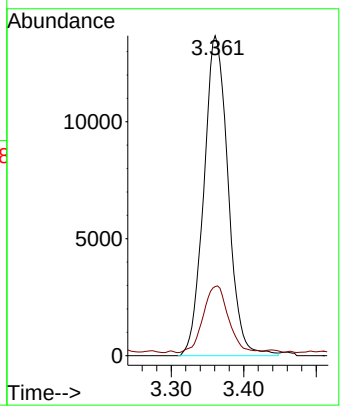
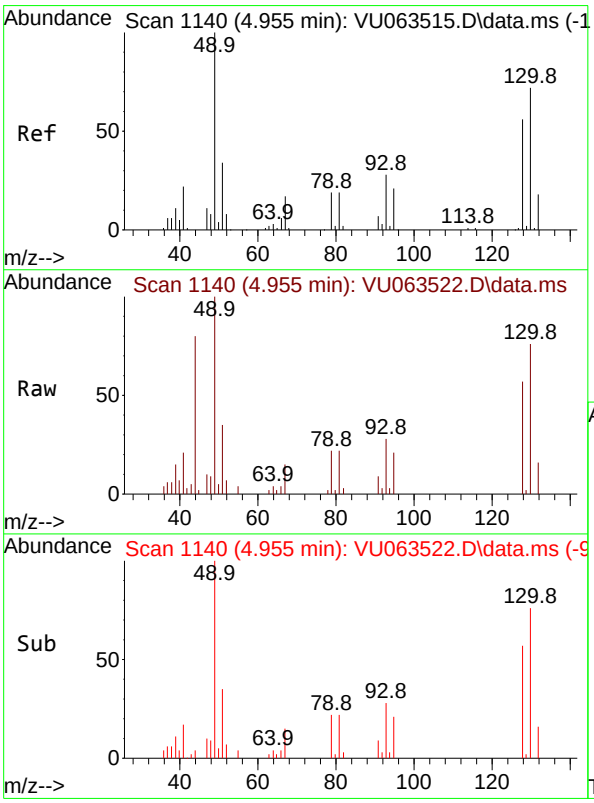
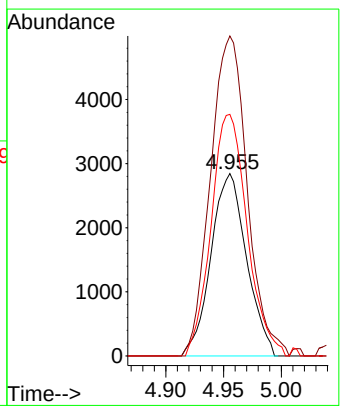


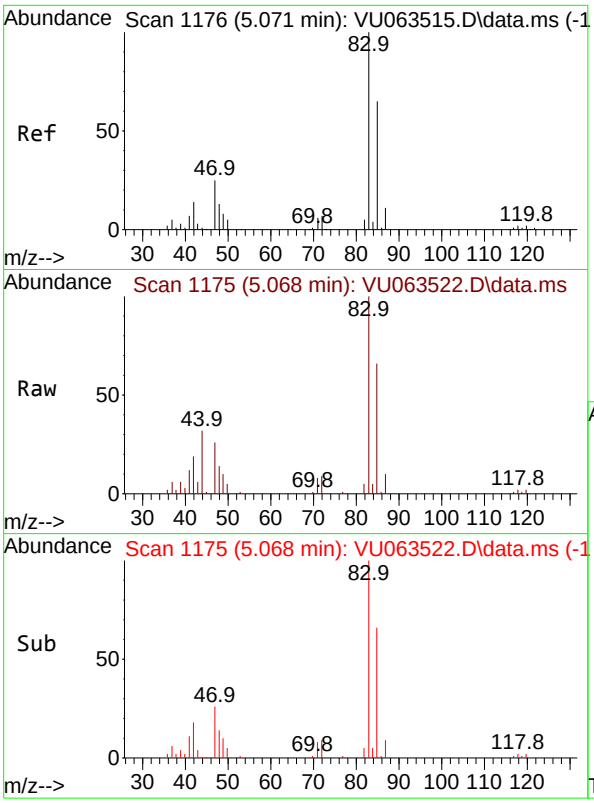


#26
Bromochloromethane
Concen: 2.104 ug/l
RT: 4.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:128 Resp: 6089

Ion	Ratio	Lower	Upper
128	100		
49	181.5	0.0	340.8
130	134.7	100.5	150.7

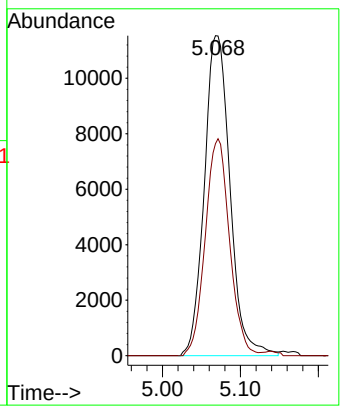




#27
Chloroform
Concen: 2.187 ug/l
RT: 5.068 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 83 Resp: 2642

Ion	Ratio	Lower	Upper
83	100		
85	66.2	0.0	130.0



Instrument :
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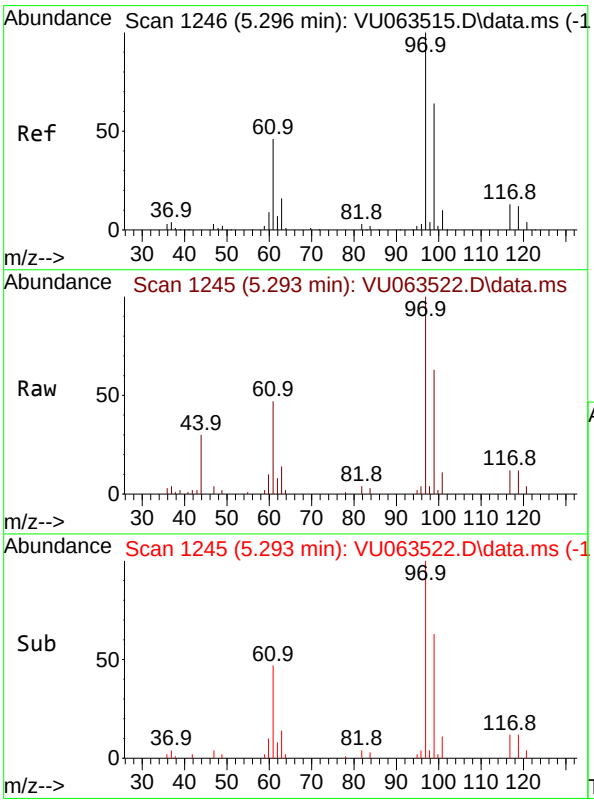
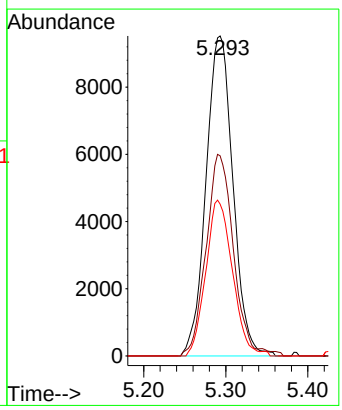
Supervised By :Semsettin Yesilyurt 07/21/2025

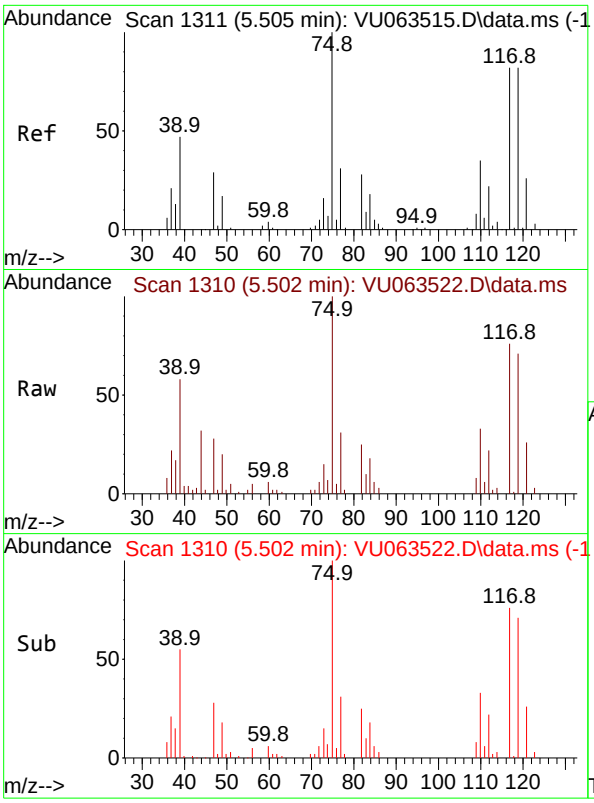


#28
1,1,1-Trichloroethane
Concen: 2.125 ug/l
RT: 5.293 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 97 Resp: 21787

Ion	Ratio	Lower	Upper
97	100		
99	64.1	31.8	95.3
61	48.2	23.3	69.9

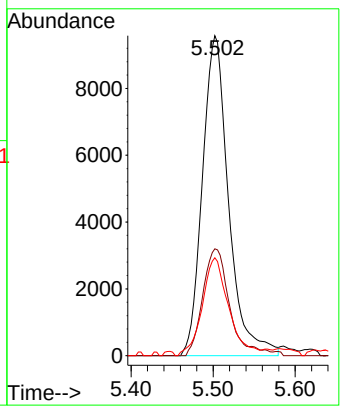




#29
1,1-Dichloropropene
Concen: 2.236 ug/l
RT: 5.502 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 75 Resp: 2123

Ion	Ratio	Lower	Upper
75	100		
110	34.0	17.8	53.4
77	30.7	24.6	37.0



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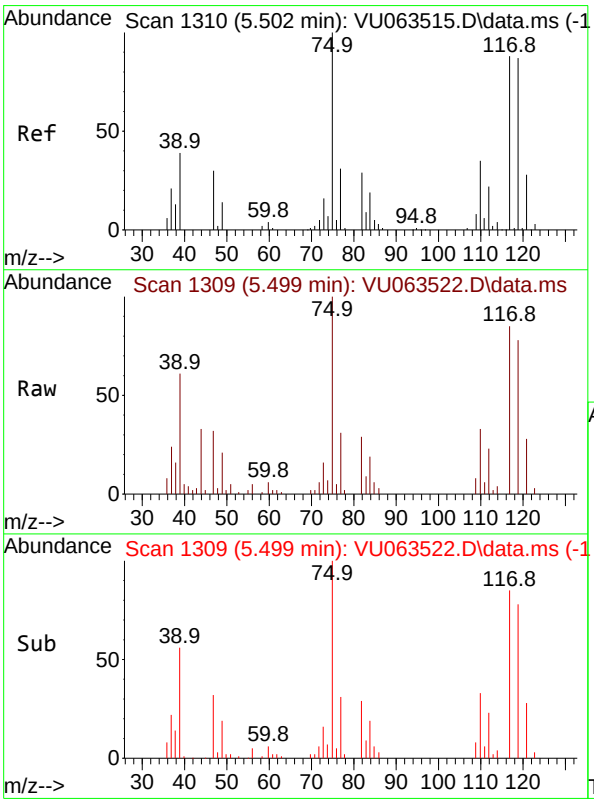
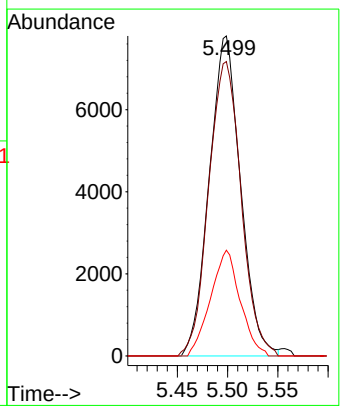
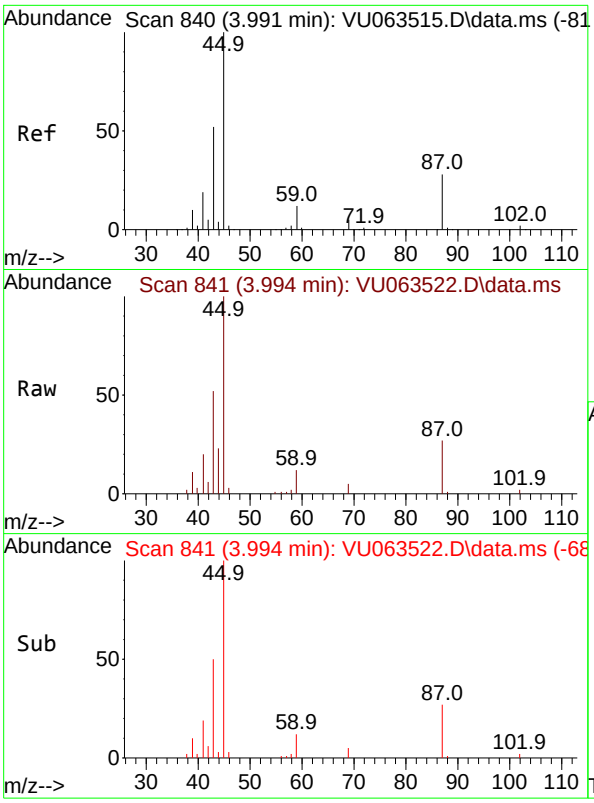


#30
Carbon Tetrachloride
Concen: 2.046 ug/l
RT: 5.499 min Scan# 1309
Delta R.T. -0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:117 Resp: 16882

Ion	Ratio	Lower	Upper
117	100		
119	92.0	79.2	118.8
121	33.1	25.5	38.3

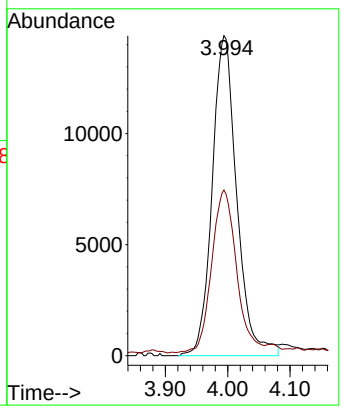




#31
Isopropyl Ether
Concen: 2.207 ug/l
RT: 3.994 min Scan# 84
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 45 Resp: 3944

Ion	Ratio	Lower	Upper
45	100		
43	51.0	25.7	77.0



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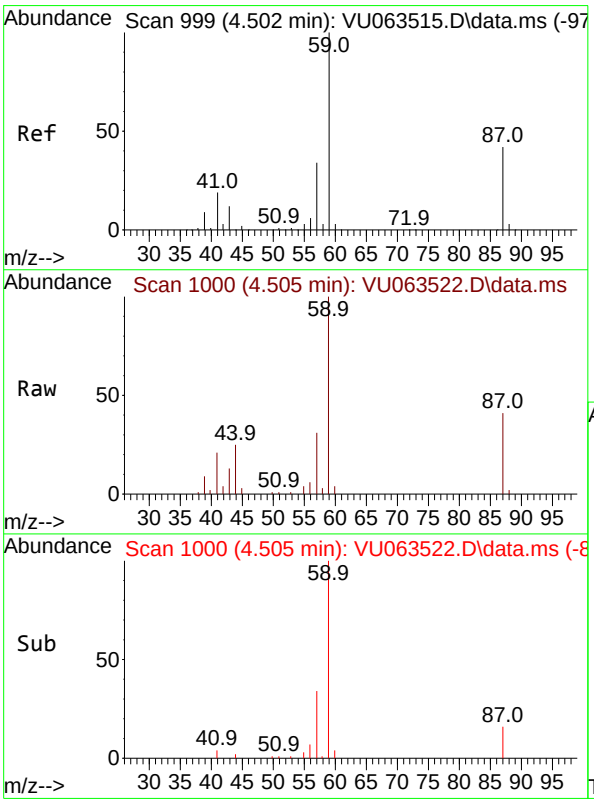
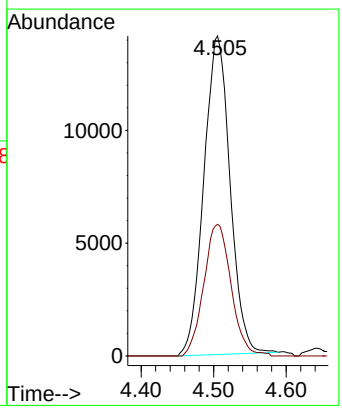
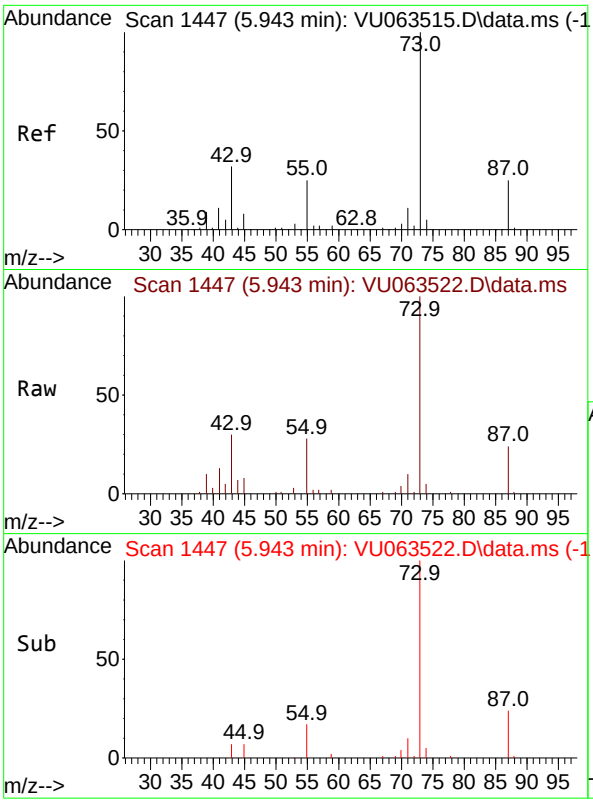


#32
Ethyl-t-butyl ether
Concen: 2.142 ug/l
RT: 4.505 min Scan# 1000
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 59 Resp: 35419

Ion	Ratio	Lower	Upper
59	100		
87	43.1	32.6	49.0





#33
Tert-Amyl methyl ether
Concen: 1.756 ug/l
RT: 5.943 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 73 Resp: 2519

Ion	Ratio	Lower	Upper
73	100		
87	23.6	19.4	29.2
71	11.6	8.9	13.3

Instrument :
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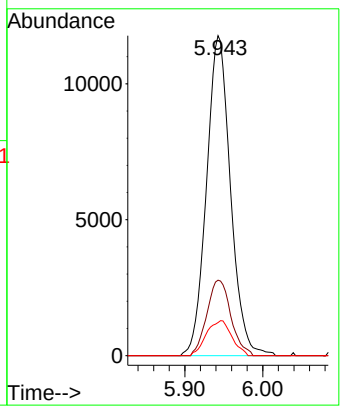
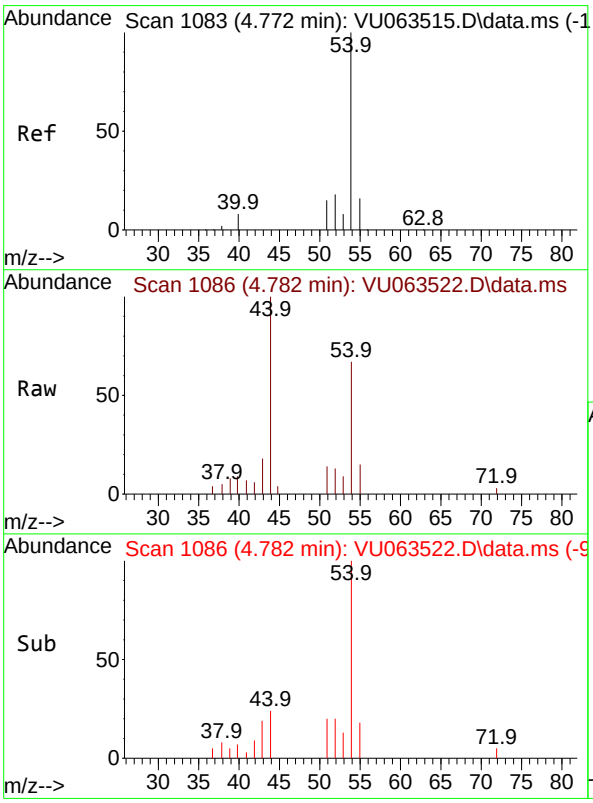
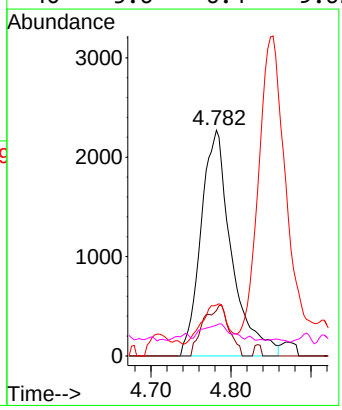


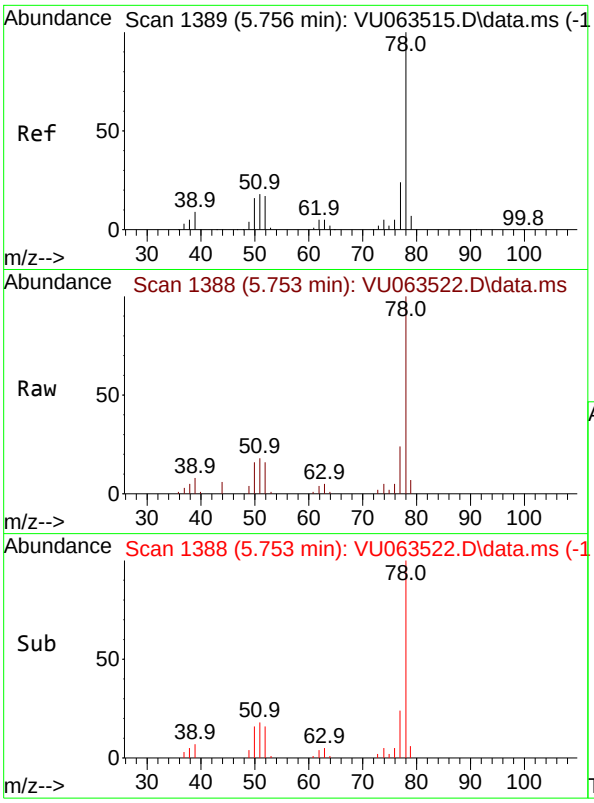


#34
Propionitrile
Concen: 11.359 ug/l
RT: 4.782 min Scan# 1086
Delta R.T. 0.010 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 54 Resp: 6040

Ion	Ratio	Lower	Upper
54	100		
52	18.9	17.0	25.4
55	15.6	13.6	20.4
40	5.6	6.4	9.6#





#35
Benzene
Concen: 1.798 ug/l
RT: 5.753 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 78 Resp: 4587

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.4	29.2

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

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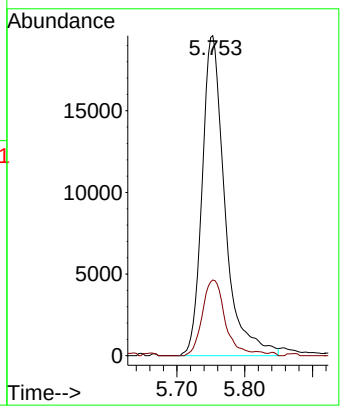
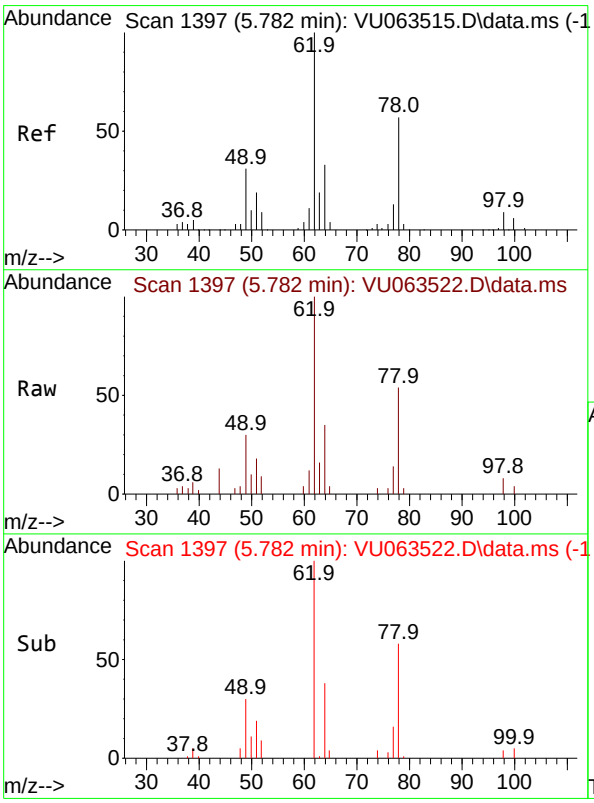
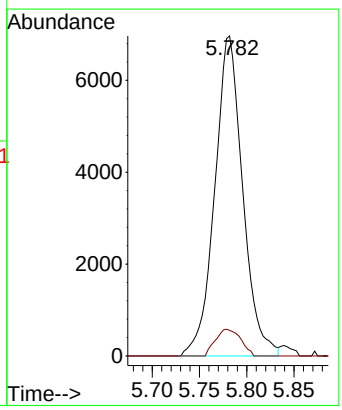


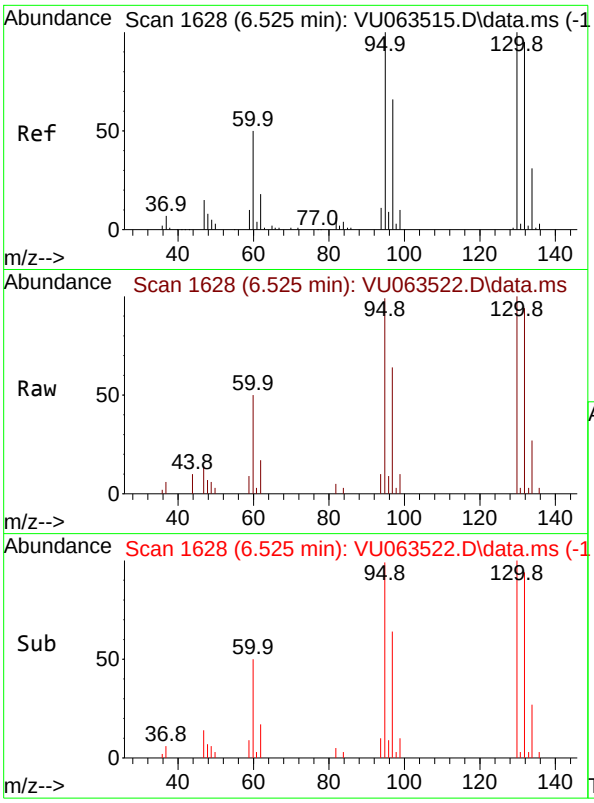


#36
1,2-Dichloroethane
Concen: 1.809 ug/l
RT: 5.782 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 62 Resp: 14343

Ion	Ratio	Lower	Upper
62	100		
98	7.5	6.4	9.6





#37
Trichloroethene
Concen: 1.861 ug/l
RT: 6.525 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:130 Resp: 1211

Ion	Ratio	Lower	Upper
130	100		
95	99.2	80.3	120.5

Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

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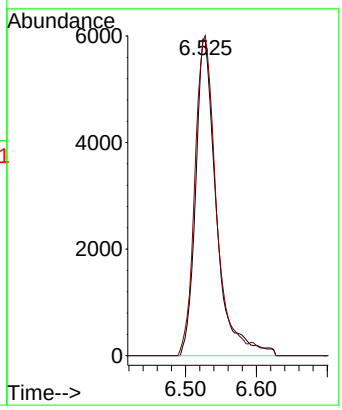
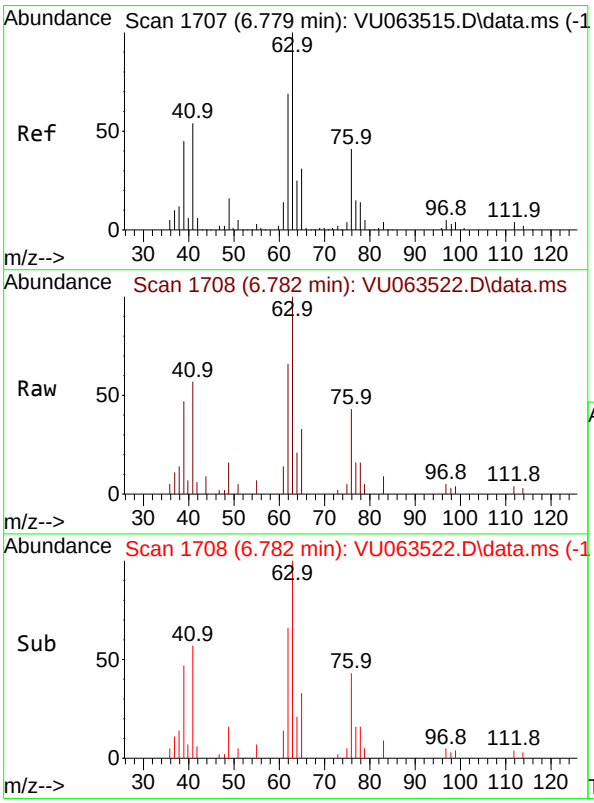
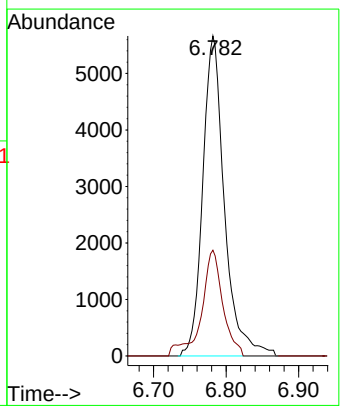


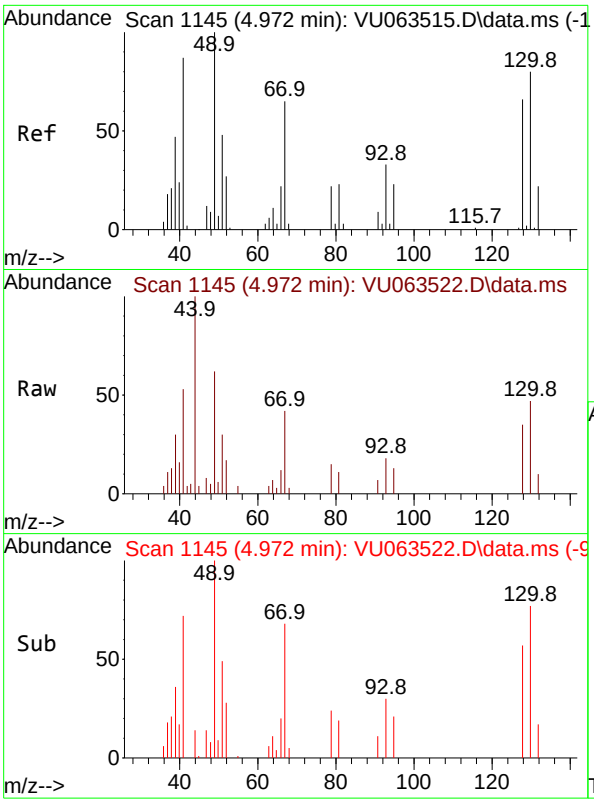


#38
1,2-Dichloropropane
Concen: 1.970 ug/l
RT: 6.782 min Scan# 1708
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 63 Resp: 11764

Ion	Ratio	Lower	Upper
63	100		
65	33.0	24.6	36.8

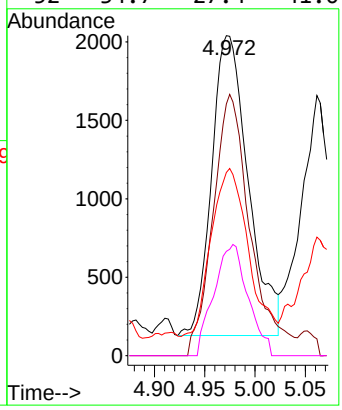




#39
Methacrylonitrile
Concen: 2.038 ug/l
RT: 4.972 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 41 Resp: 481

Ion	Ratio	Lower	Upper
41	100		
67	89.7	62.7	94.1
39	53.8	43.1	64.7
52	34.7	27.4	41.0



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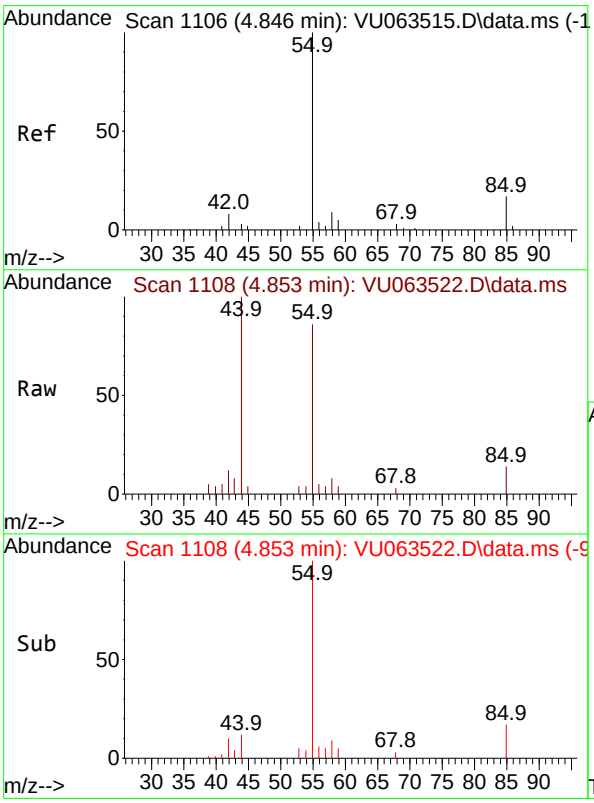
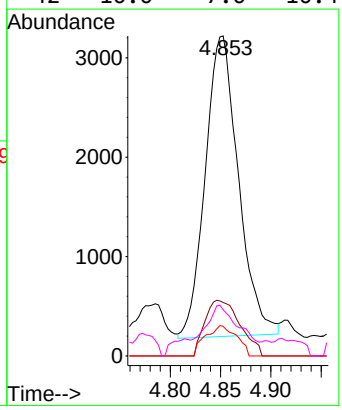
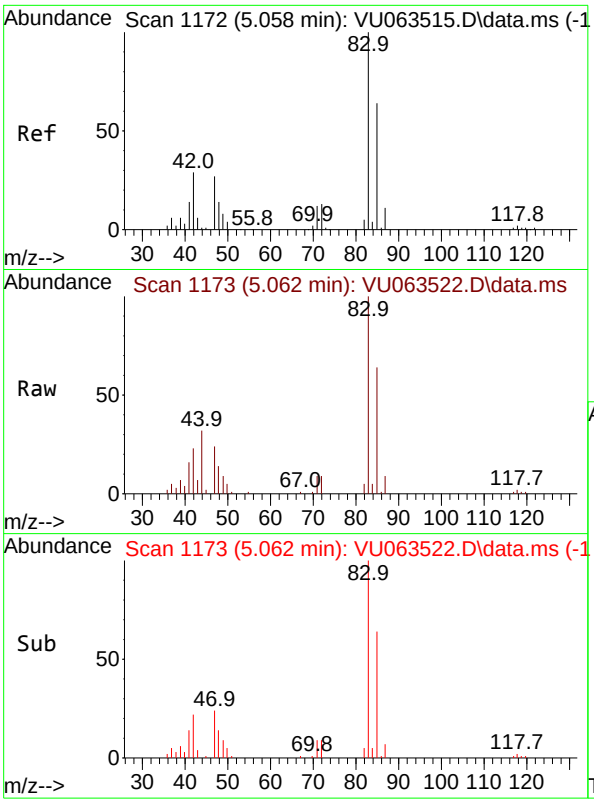


#40
Methyl acrylate
Concen: 2.009 ug/l
RT: 4.853 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 55 Resp: 6941

Ion	Ratio	Lower	Upper
55	100		
85	19.6	12.8	19.2#
58	9.4	7.0	10.4
42	10.0	7.0	10.4

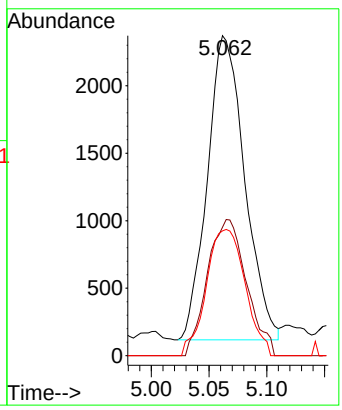




#41
Tetrahydrofuran
Concen: 4.078 ug/l
RT: 5.062 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 42 Resp: 507

Ion	Ratio	Lower	Upper
42	100		
72	46.8	39.2	58.8
71	43.1	34.8	52.2



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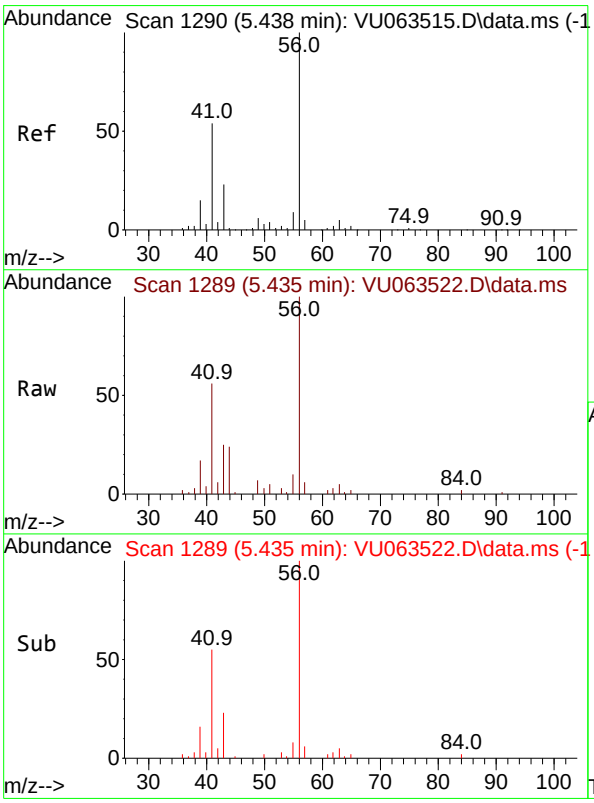
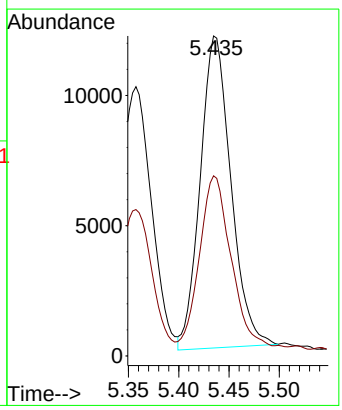
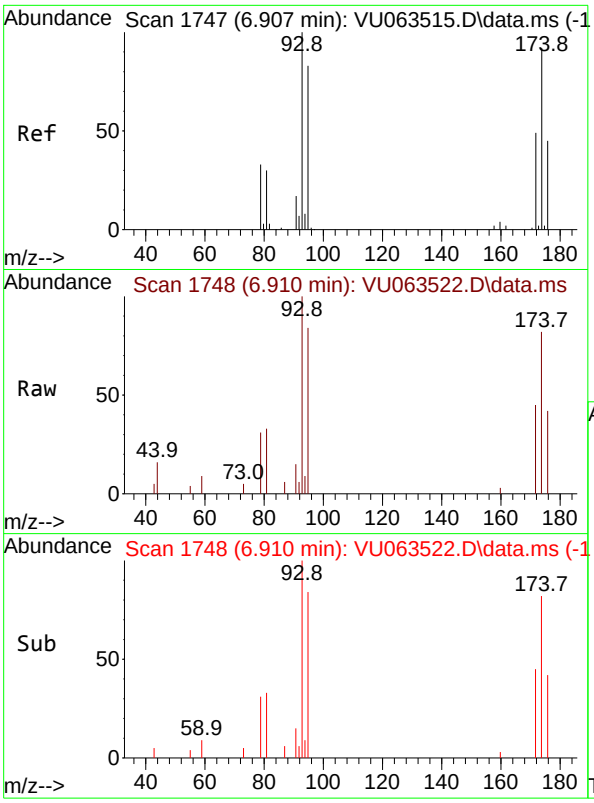


#42
1-Chlorobutane
Concen: 2.013 ug/l
RT: 5.435 min Scan# 1289
Delta R.T. -0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 56 Resp: 25415

Ion	Ratio	Lower	Upper
56	100		
41	57.0	26.7	80.0

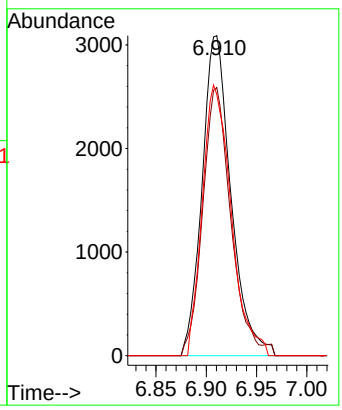




#43
Dibromomethane
Concen: 1.994 ug/l
RT: 6.910 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 93 Resp: 616

Ion	Ratio	Lower	Upper
93	100		
95	81.1	67.9	101.9
174	84.5	74.6	111.8



Instrument :
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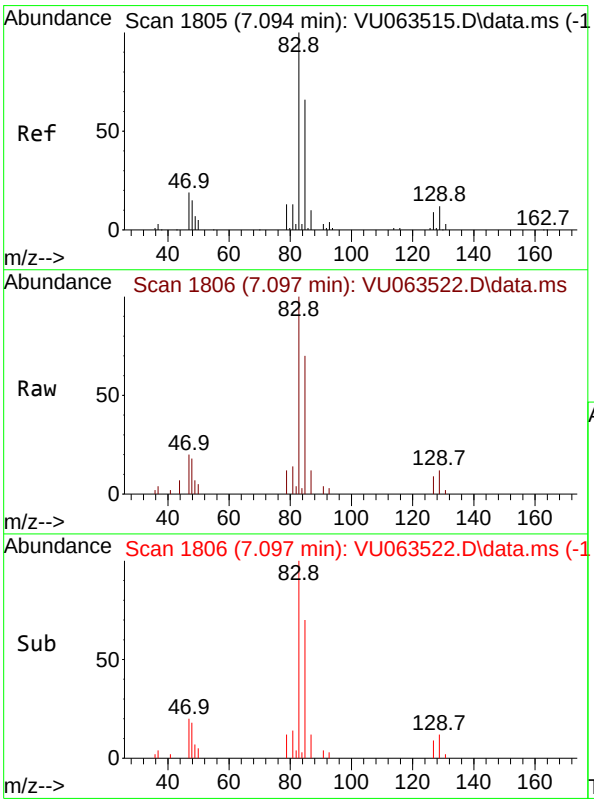
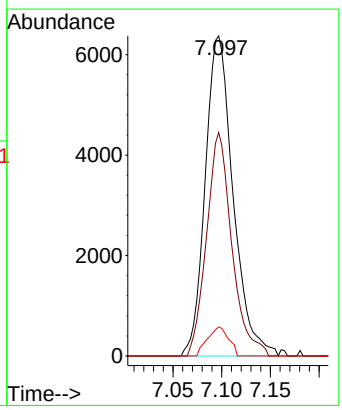
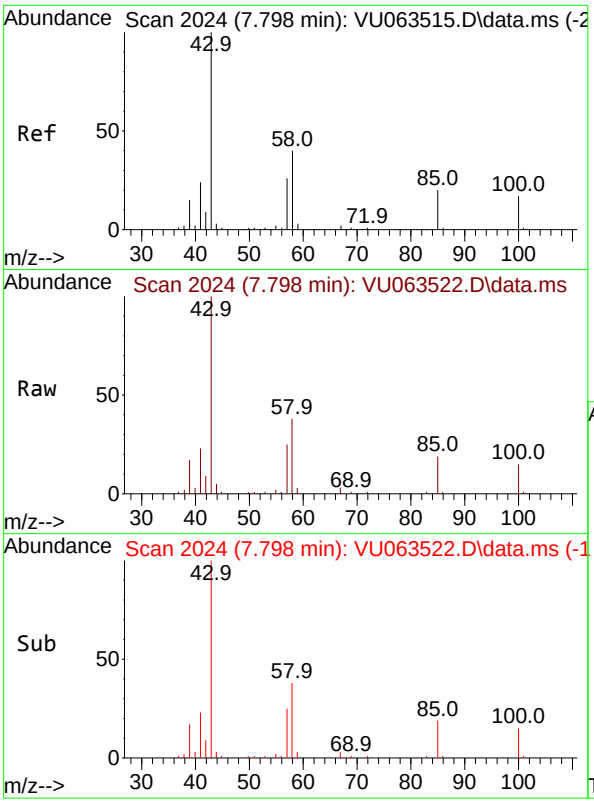


#44
Bromodichloromethane
Concen: 1.820 ug/l
RT: 7.097 min Scan# 1806
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 83 Resp: 12700

Ion	Ratio	Lower	Upper
83	100		
85	69.8	52.7	79.1
127	9.1	8.1	12.1





#45
4-Methyl-2-Pentanone
Concen: 10.071 ug/l
RT: 7.798 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 43 Resp: 3211

Ion	Ratio	Lower	Upper
43	100		
58	39.9	20.0	60.0
85	19.0	15.4	23.0

Instrument :
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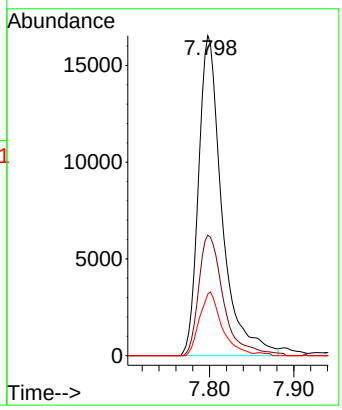
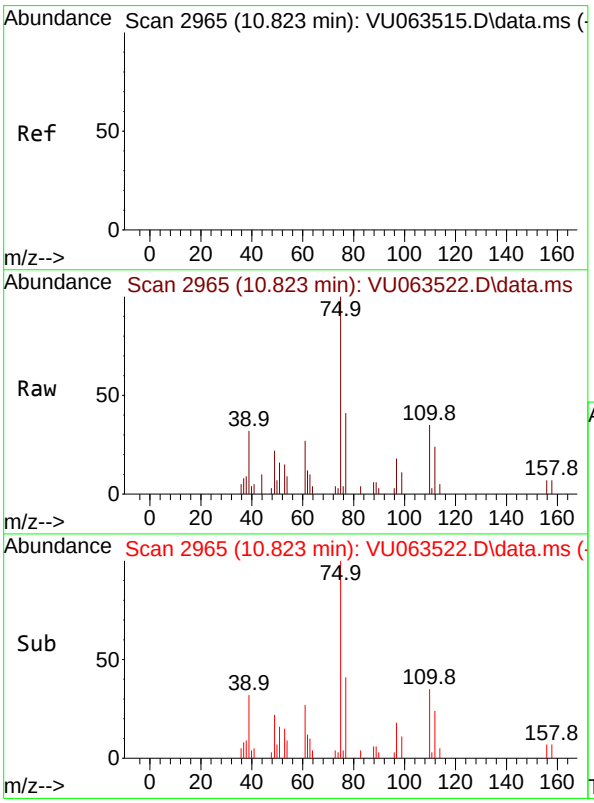
Supervised By :Semsettin Yesilyurt 07/21/2025

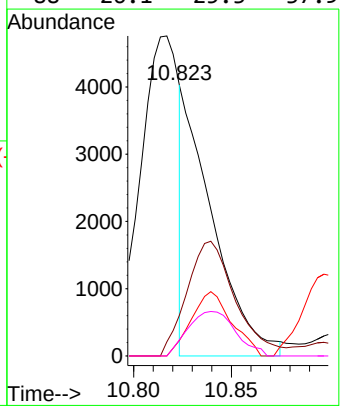


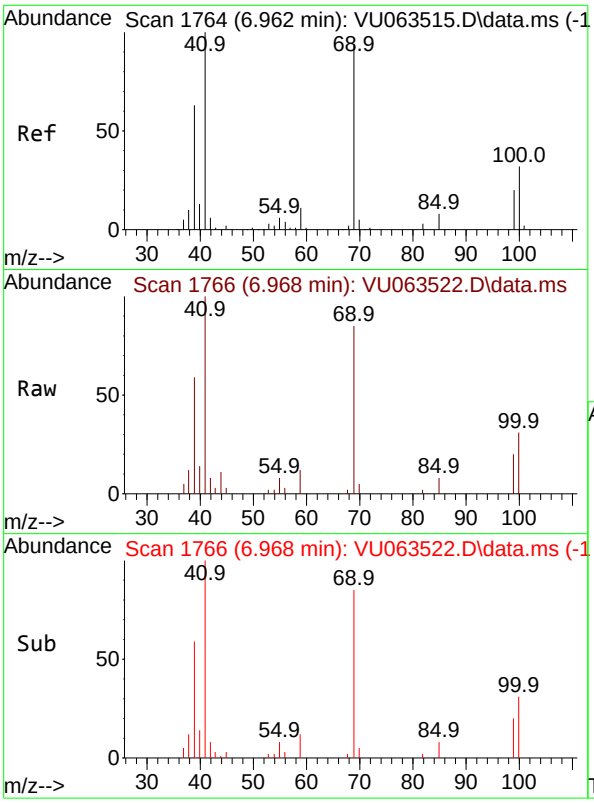


#46
t-1,4-Dichloro-2-butene
Concen: 3.582 ug/l m
RT: 10.823 min Scan# 2965
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 75 Resp: 4288

Ion	Ratio	Lower	Upper
75	100		
53	68.6	48.4	72.6
89	32.0	30.6	45.8
88	26.1	25.3	37.9

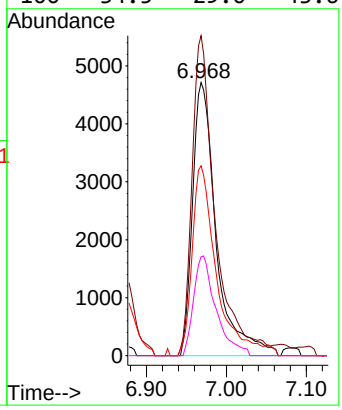




#47
Methyl methacrylate
Concen: 3.737 ug/l
RT: 6.968 min Scan# 1
Delta R.T. 0.006 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 69 Resp: 971

Ion	Ratio	Lower	Upper
69	100		
41	114.5	0.0	224.0
39	70.4	55.3	82.9
100	34.5	29.0	43.6



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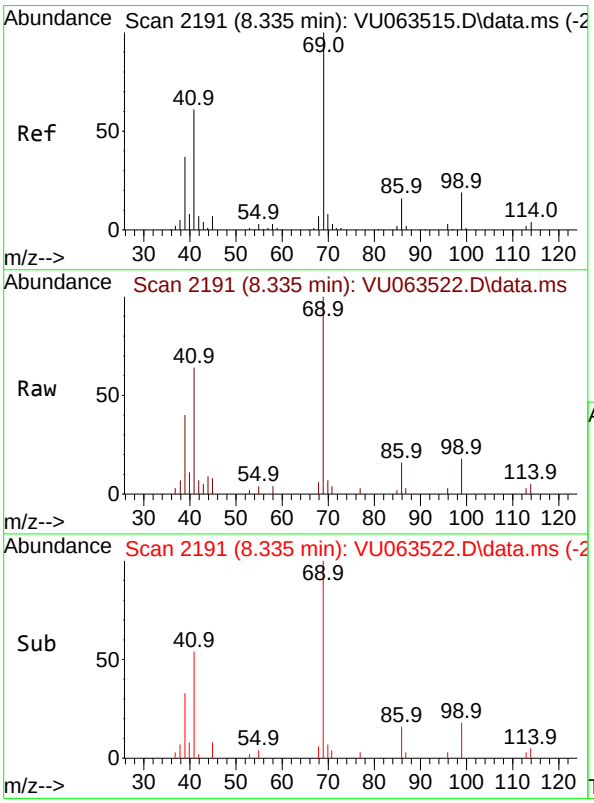
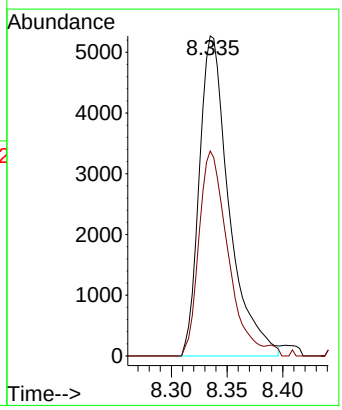
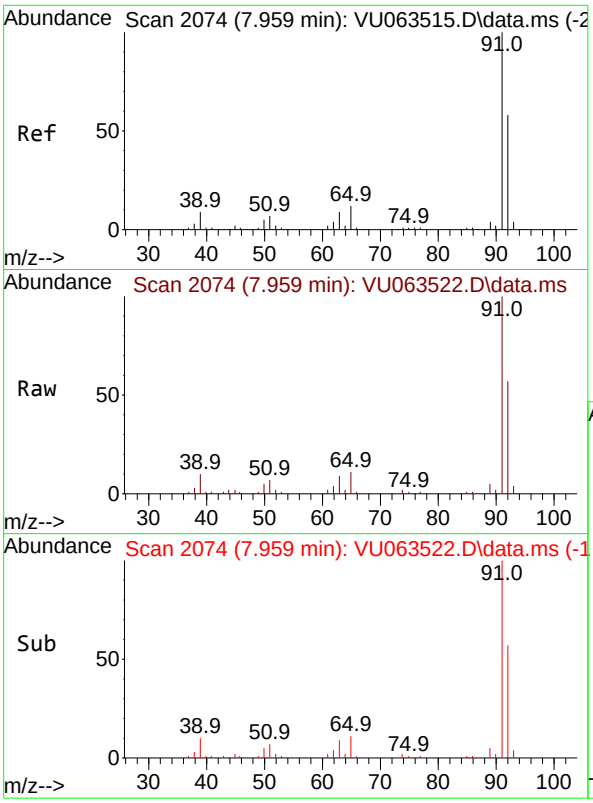


#48
Ethyl methacrylate
Concen: 1.973 ug/l
RT: 8.335 min Scan# 2191
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 69 Resp: 9783

Ion	Ratio	Lower	Upper
69	100		
41	61.8	30.8	92.4





#49
Toluene
Concen: 1.961 ug/l
RT: 7.959 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 92 Resp: 2732

Ion	Ratio	Lower	Upper
92	100		
91	175.1	140.4	210.6

Instrument :
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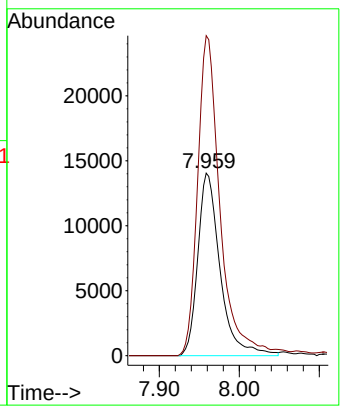
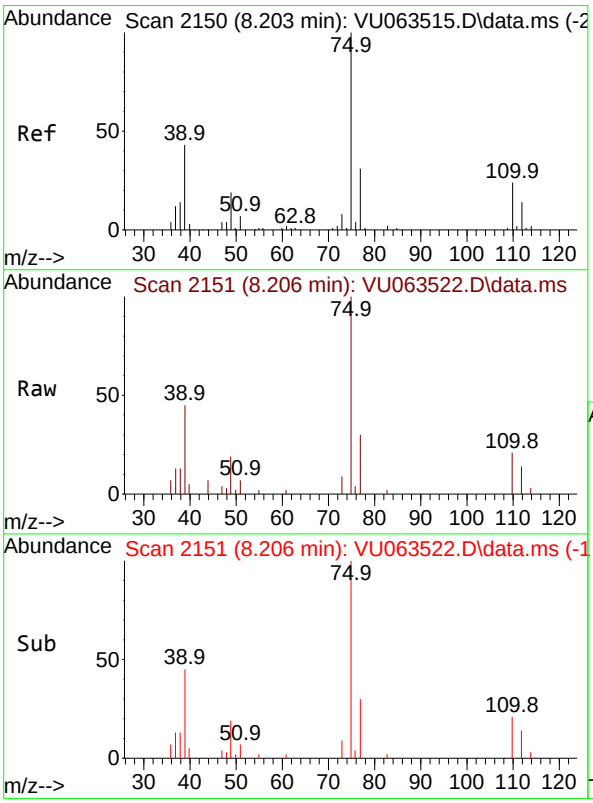
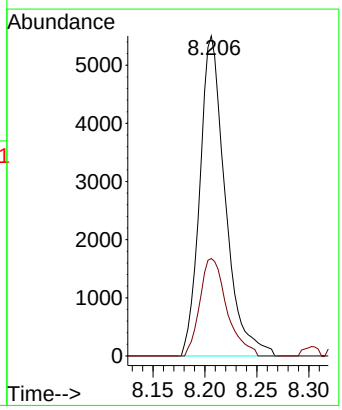


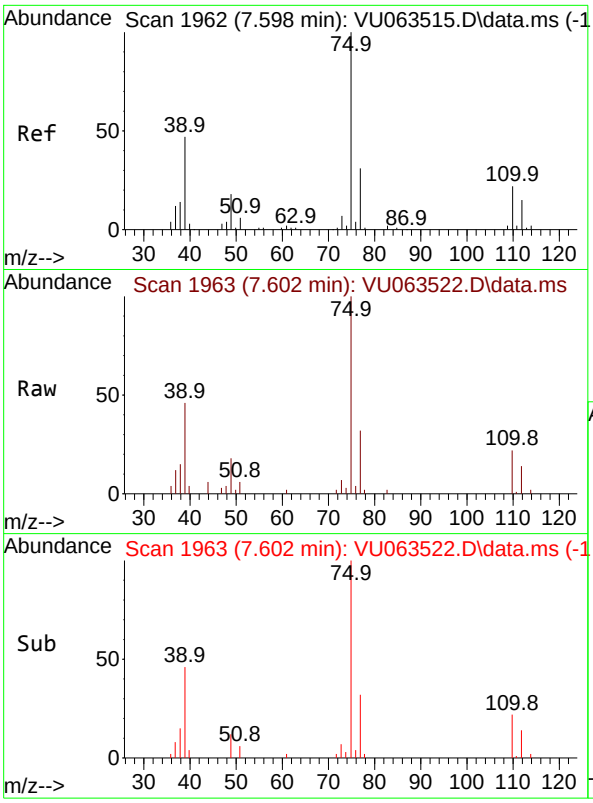


#50
t-1,3-Dichloropropene
Concen: 1.708 ug/l
RT: 8.206 min Scan# 2151
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 75 Resp: 9349

Ion	Ratio	Lower	Upper
75	100		
77	30.5	24.9	37.3

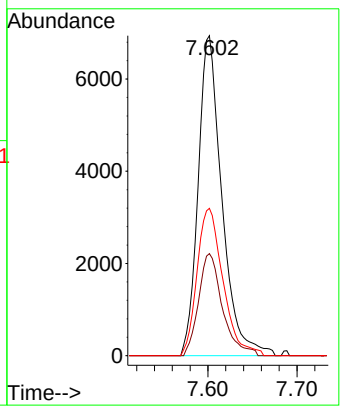




#51
cis-1,3-Dichloropropene
Concen: 1.752 ug/l
RT: 7.602 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 75 Resp: 1287

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.1	37.7
39	46.0	37.8	56.6



Instrument :
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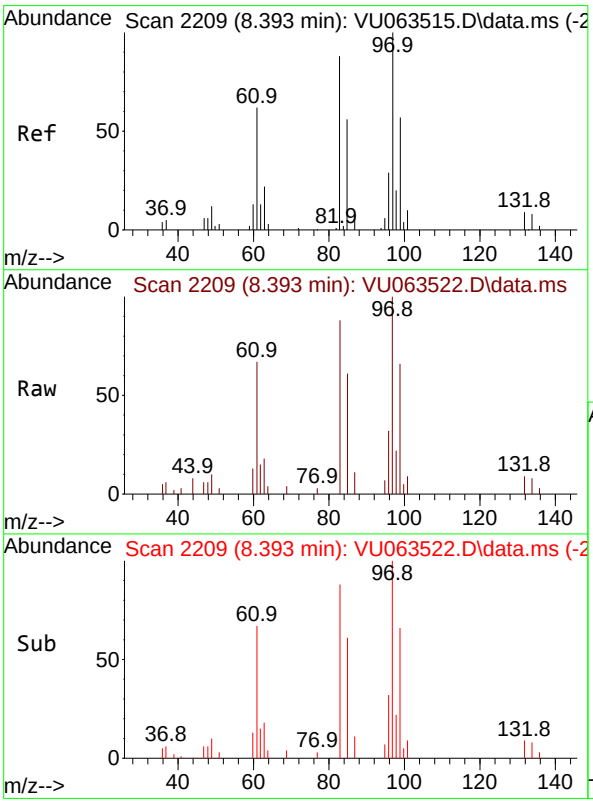
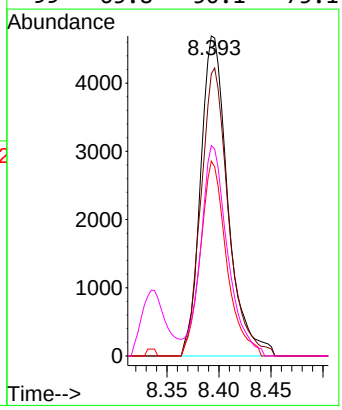
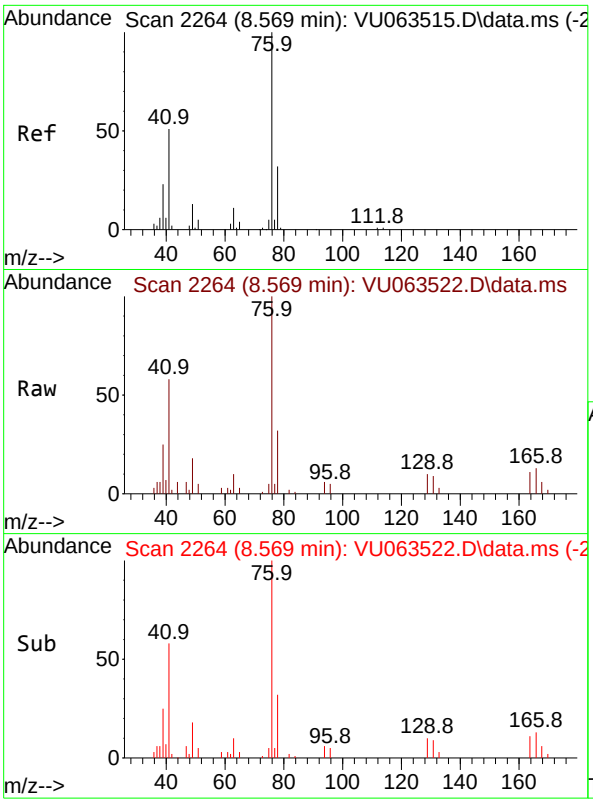


#52
1,1,2-Trichloroethane
Concen: 2.052 ug/l
RT: 8.393 min Scan# 2209
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 97 Resp: 8548

Ion	Ratio	Lower	Upper
97	100		
83	88.2	70.2	105.2
85	60.9	45.2	67.8
99	65.8	50.1	75.1

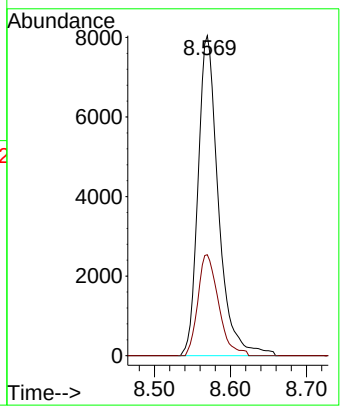




#53
1,3-Dichloropropane
Concen: 2.081 ug/l
RT: 8.569 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 76 Resp: 1496

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.0	39.0



Instrument :
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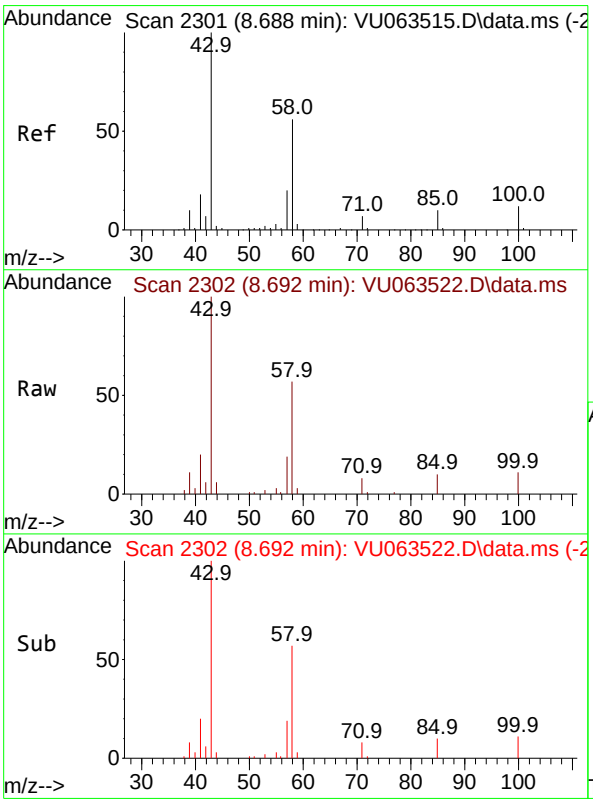
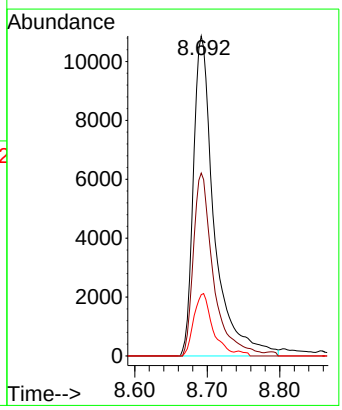
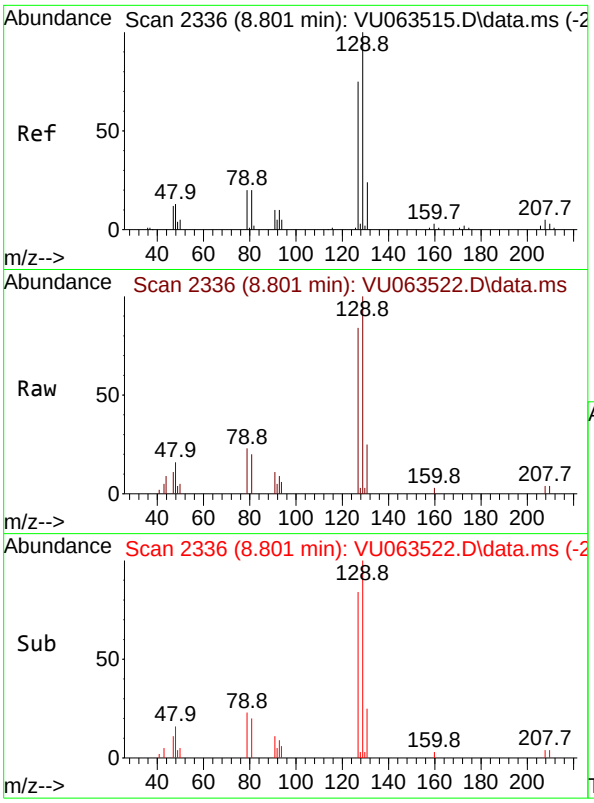


#54
2-Hexanone
Concen: 10.271 ug/l
RT: 8.692 min Scan# 2302
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 43 Resp: 21753

Ion	Ratio	Lower	Upper
43	100		
58	54.8	34.8	74.8
57	17.5	0.0	39.5

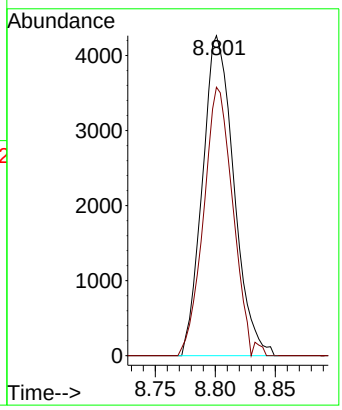




#55
Dibromochloromethane
Concen: 1.762 ug/l
RT: 8.801 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:129 Resp: 775

Ion	Ratio	Lower	Upper
129	100		
127	78.2	60.1	90.1



Instrument :
MSVOA_U
ClientSampleId :
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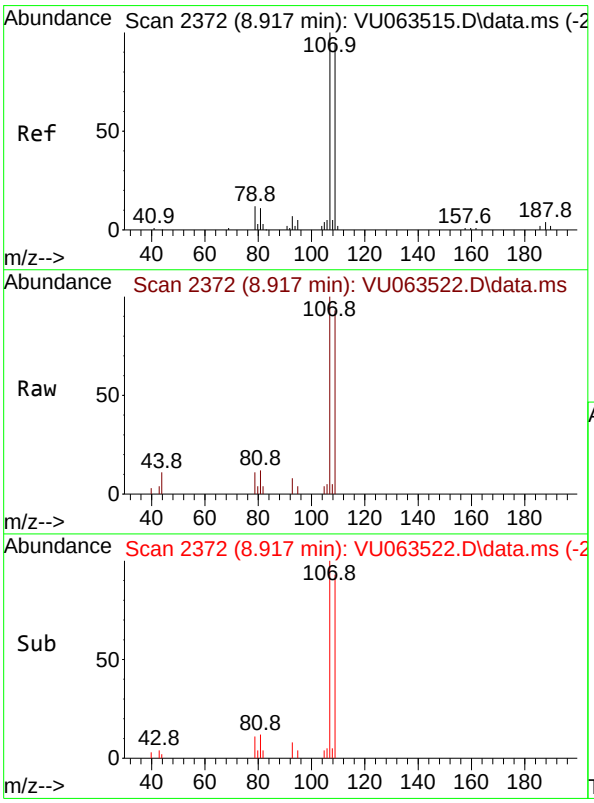
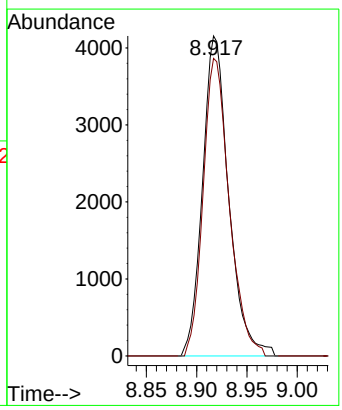
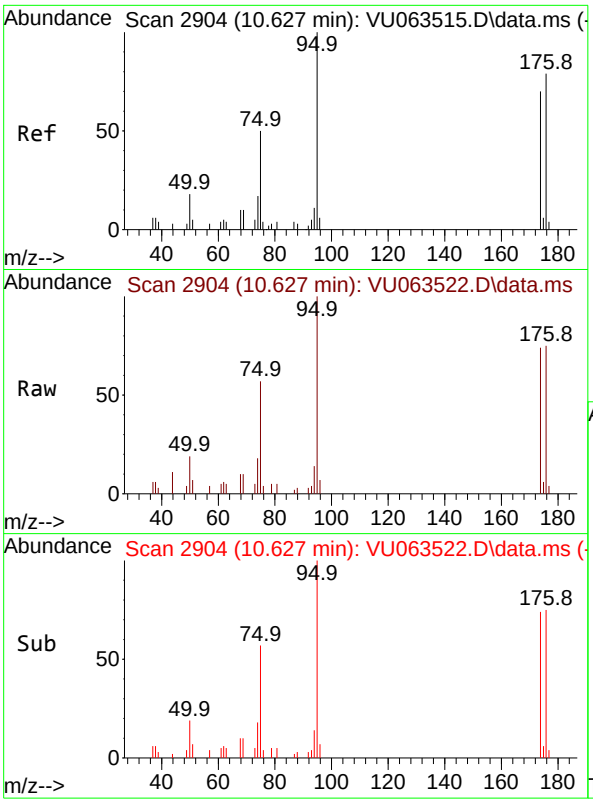


#56
1,2-Dibromoethane
Concen: 2.022 ug/l
RT: 8.917 min Scan# 2372
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:107 Resp: 7538

Ion	Ratio	Lower	Upper
107	100		
109	92.6	0.0	186.4

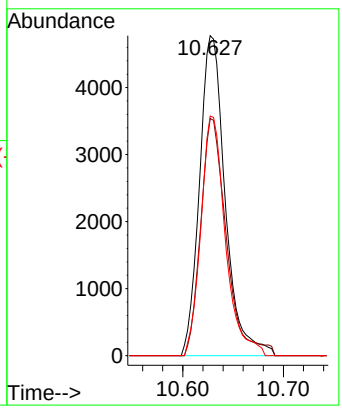




#57
4-Bromofluorobenzene
Concen: 1.033 ug/l
RT: 10.627 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 95 Resp: 847

Ion	Ratio	Lower	Upper
95	100		
174	74.0	59.8	89.8
176	71.4	61.8	92.8



Instrument :
MSVOA_U
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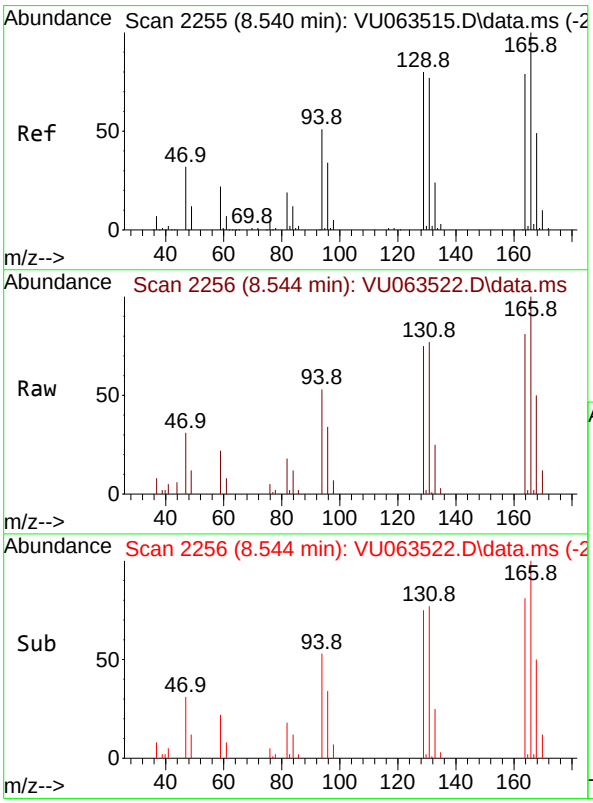
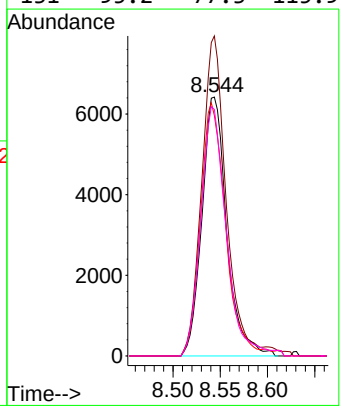
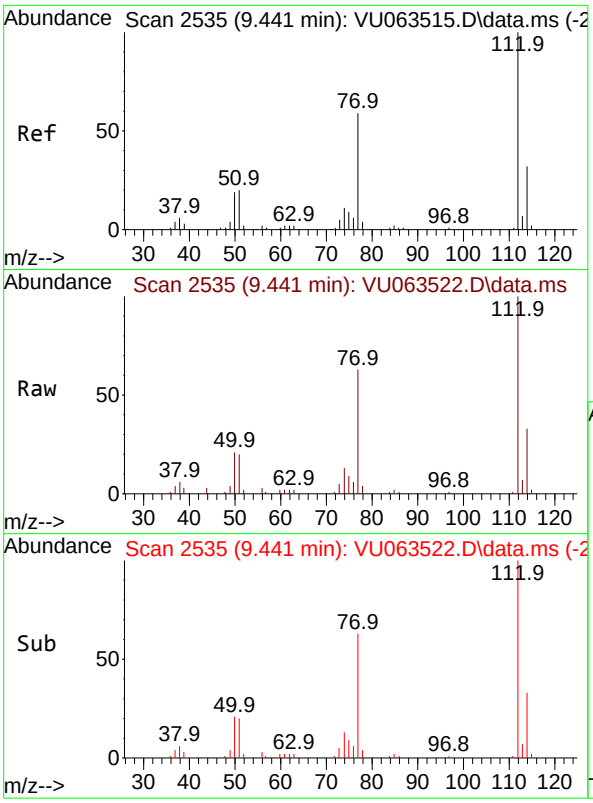


#58
Tetrachloroethene
Concen: 1.967 ug/l
RT: 8.544 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:164 Resp: 11718

Ion	Ratio	Lower	Upper
164	100		
166	123.6	100.7	151.1
129	92.9	80.6	120.8
131	95.2	77.3	115.9

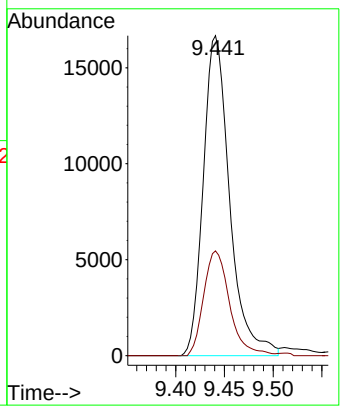




#59
Chlorobenzene
Concen: 1.964 ug/l
RT: 9.441 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:112 Resp: 3142

Ion	Ratio	Lower	Upper
112	100		
114	32.8	25.4	38.2



Instrument :
MSVOA_U
ClientSampleId :
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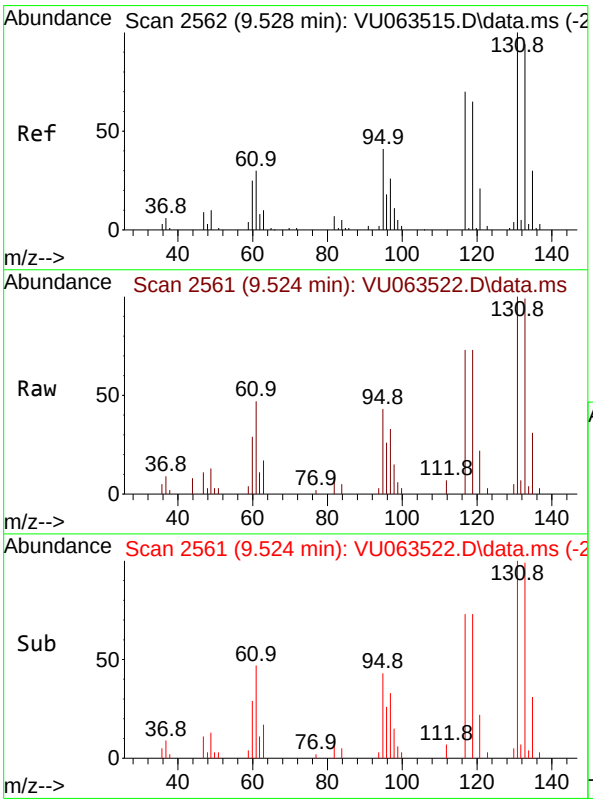
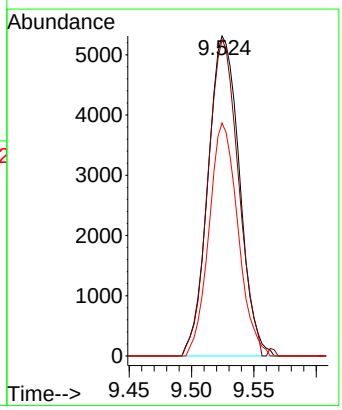
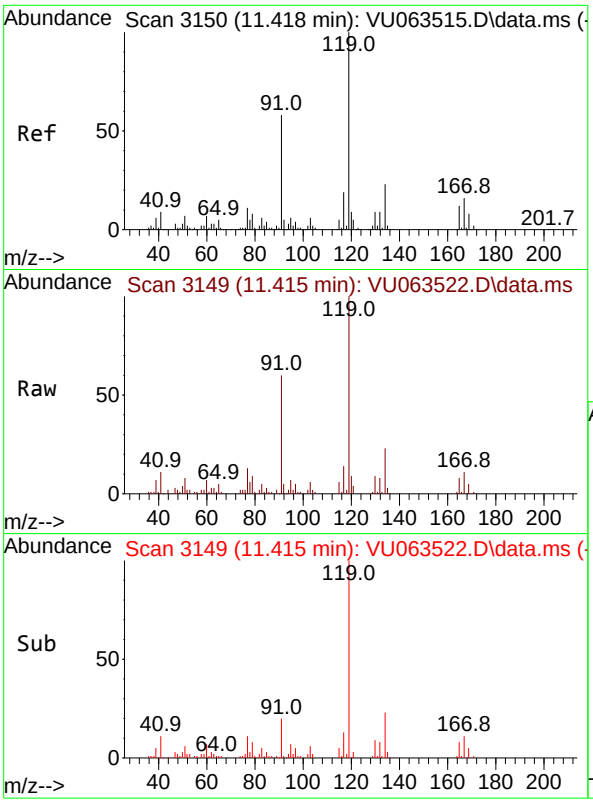


#60
1,1,1,2-Tetrachloroethane
Concen: 1.809 ug/l
RT: 9.524 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:131 Resp: 9309

Ion	Ratio	Lower	Upper
131	100		
133	96.1	74.7	112.1
119	67.2	53.0	79.4





#61
Pentachloroethane
Concen: 1.814 ug/l
RT: 11.415 min Scan# 3
Delta R.T. -0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:117 Resp: 659

Ion	Ratio	Lower	Upper
117	100		
167	76.0	65.0	97.6

Instrument :
MSVOA_U
ClientSampleId :
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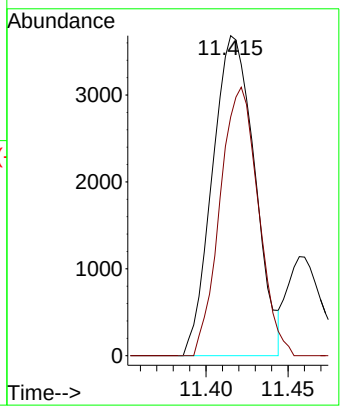
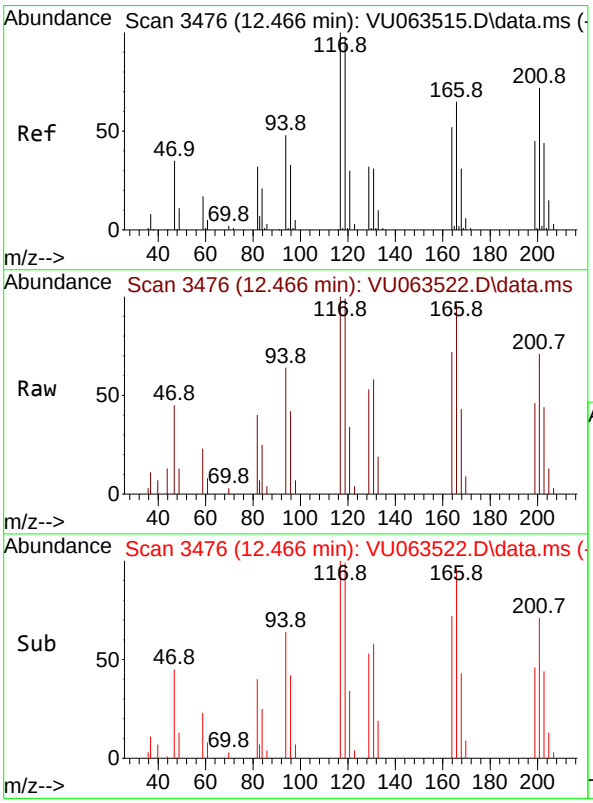
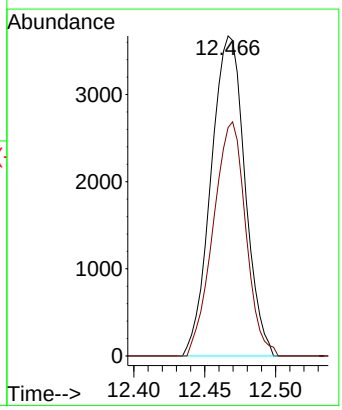


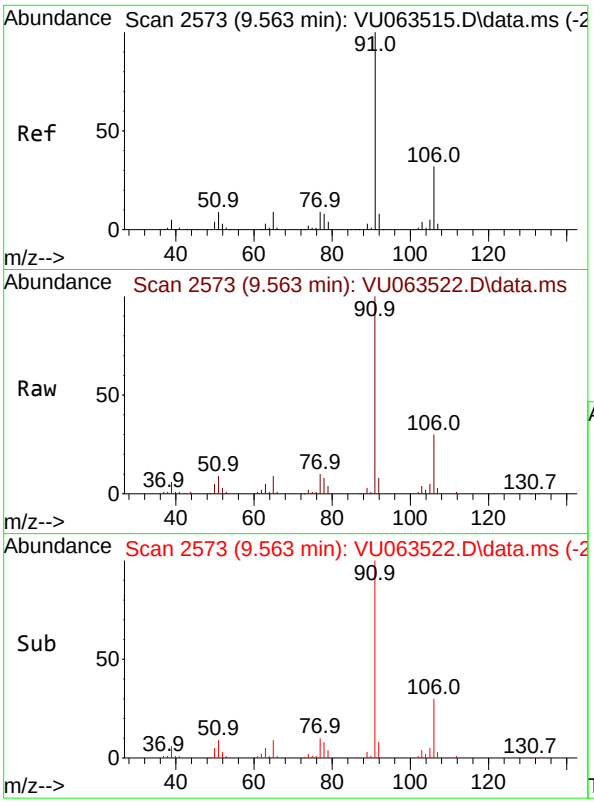


#62
Hexachloroethane
Concen: 1.699 ug/l
RT: 12.466 min Scan# 3476
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:117 Resp: 6118

Ion	Ratio	Lower	Upper
117	100		
201	70.3	57.4	86.0

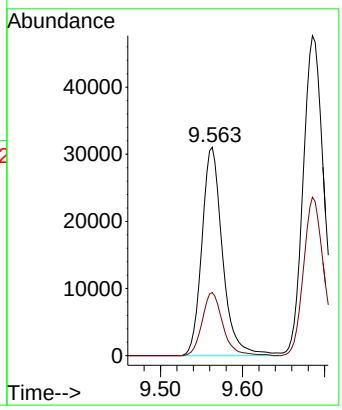




#63
Ethyl Benzene
Concen: 1.975 ug/l
RT: 9.563 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 91 Resp: 5437

Ion	Ratio	Lower	Upper
91	100		
106	30.3	25.4	38.0



Instrument :
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ClientSampleId :
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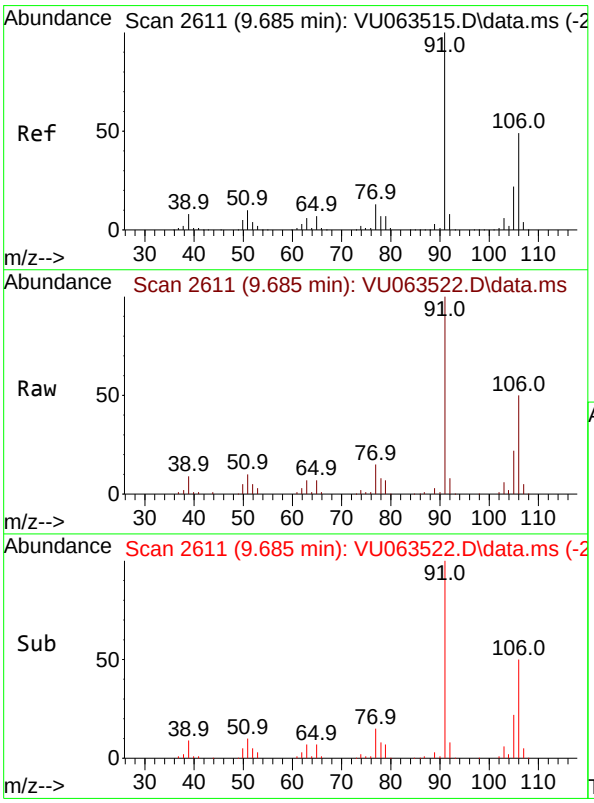
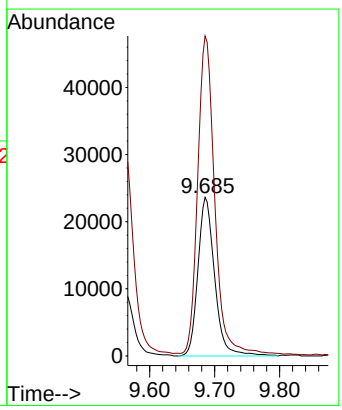
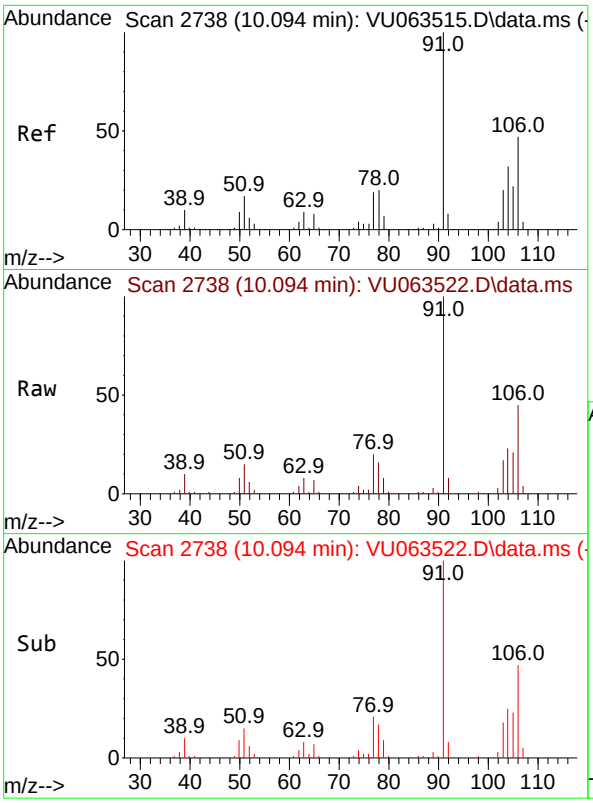


#64
m/p-Xylenes
Concen: 3.965 ug/l
RT: 9.685 min Scan# 2611
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:106 Resp: 42437

Ion	Ratio	Lower	Upper
106	100		
91	203.4	163.6	245.4

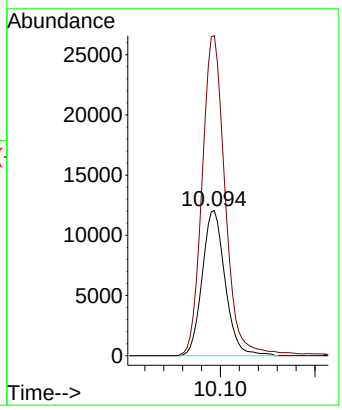




#65
o-Xylene
Concen: 1.972 ug/l
RT: 10.094 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:106 Resp: 2028

Ion	Ratio	Lower	Upper
106	100		
91	222.3	108.1	324.4



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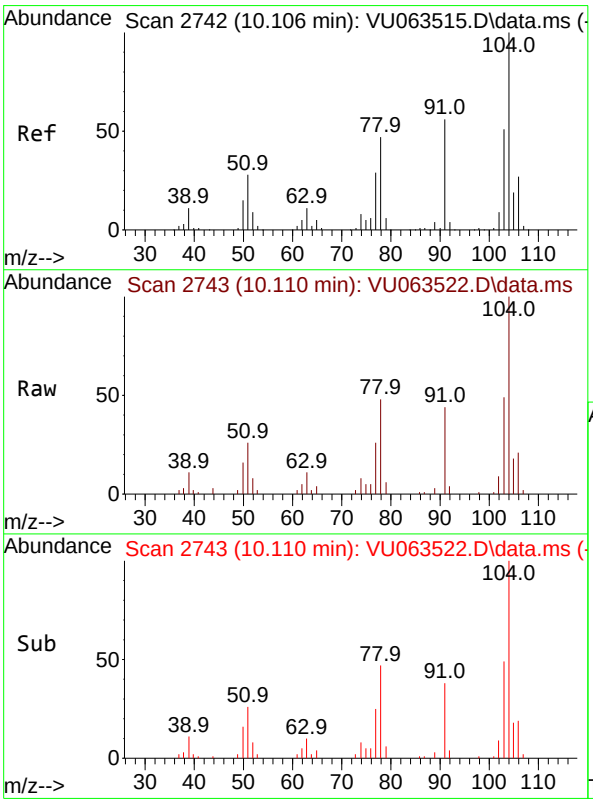
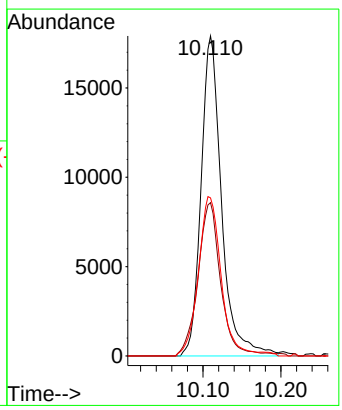
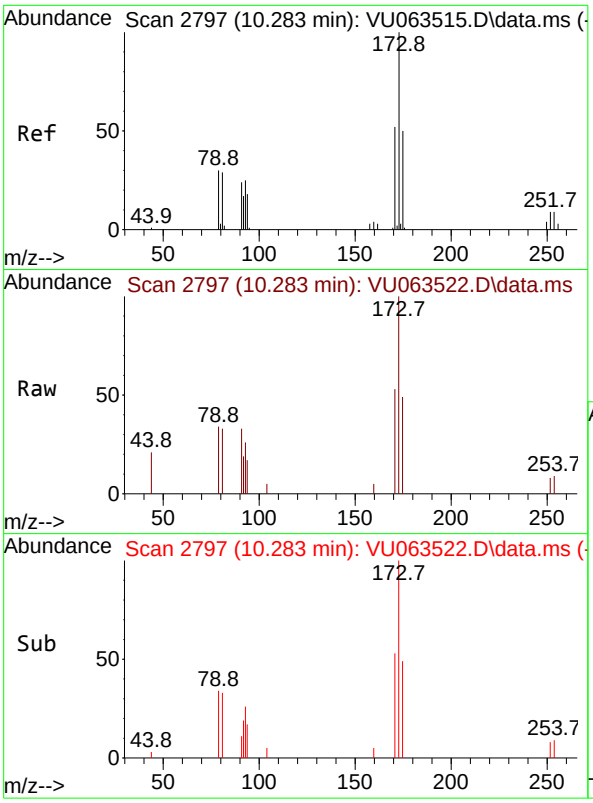


#66
Styrene
Concen: 2.000 ug/l
RT: 10.110 min Scan# 2743
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:104 Resp: 32779

Ion	Ratio	Lower	Upper
104	100		
78	53.1	41.3	61.9
103	54.9	43.6	65.4

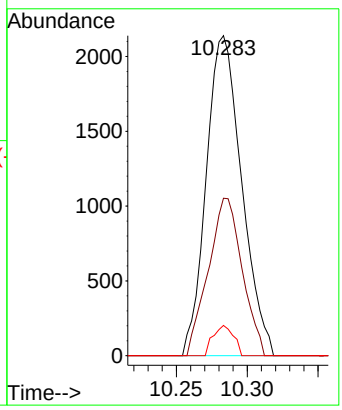




#67
Bromoform
Concen: 1.647 ug/l
RT: 10.283 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:173 Resp: 372

Ion	Ratio	Lower	Upper
173	100		
175	47.0	39.0	58.4
254	5.5	6.5	9.7#



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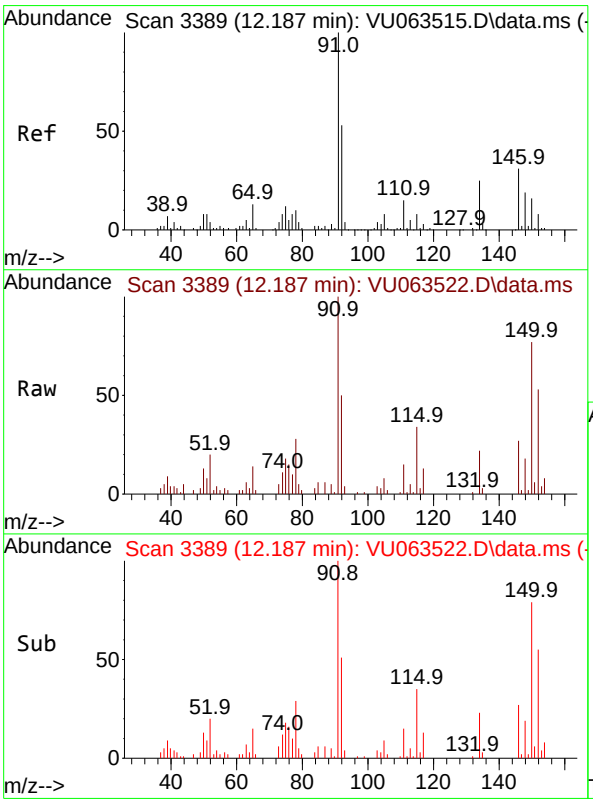
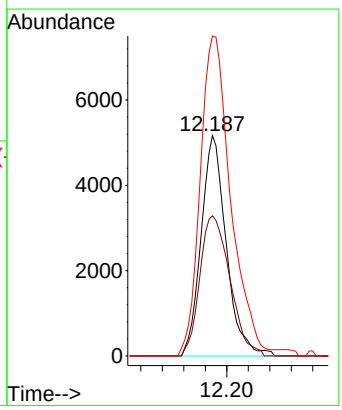
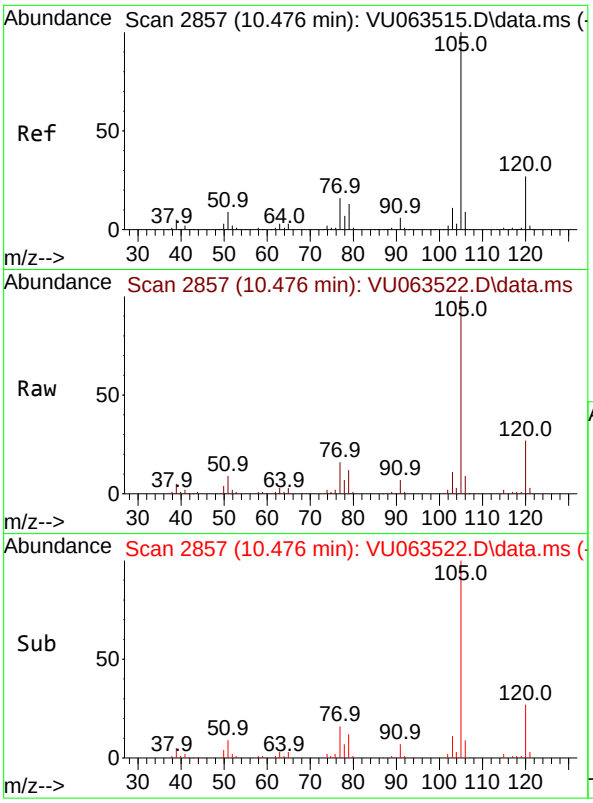


#68
1,2-Dichlorobenzene-d4
Concen: 1.103 ug/l
RT: 12.187 min Scan# 3389
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:152 Resp: 8367

Ion	Ratio	Lower	Upper
152	100		
115	76.3	0.0	262.2
150	177.3	0.0	651.2





#69
Isopropylbenzene
Concen: 2.055 ug/l
RT: 10.476 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:105 Resp: 5110

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.5

Instrument :
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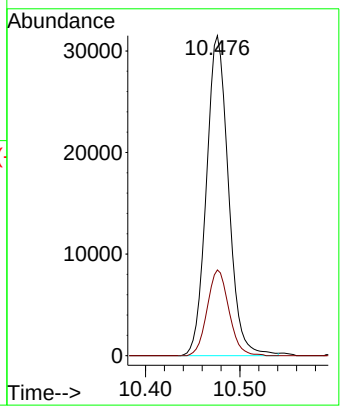
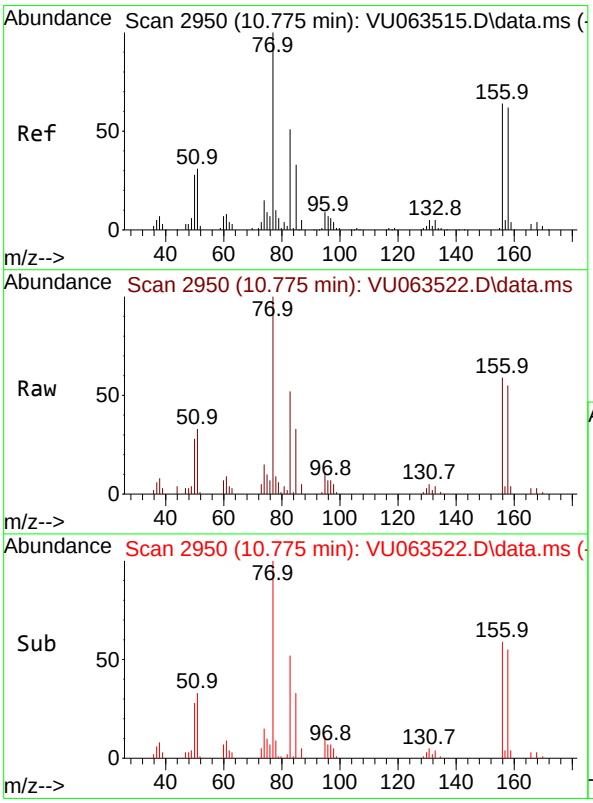
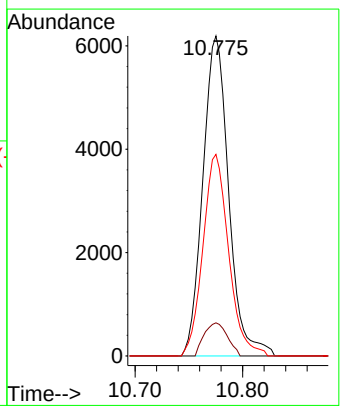


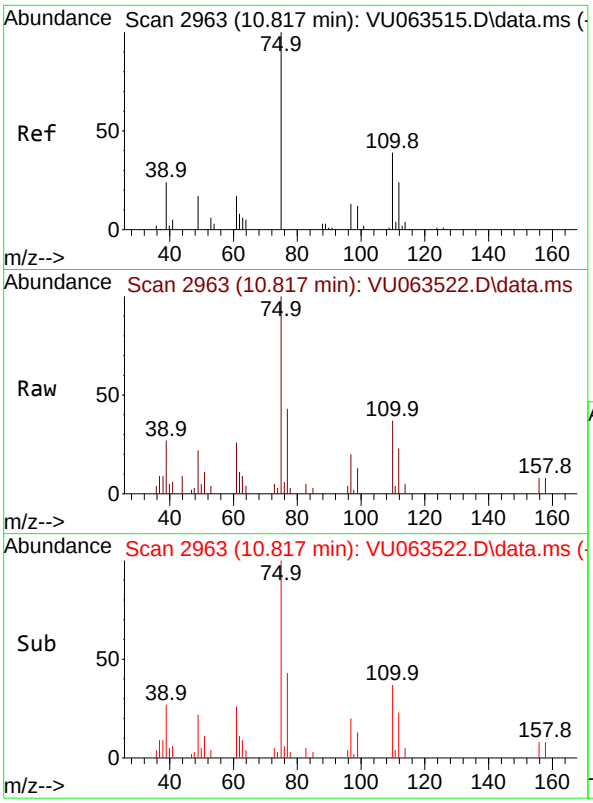


#70
1,1,2,2-Tetrachloroethane
Concen: 2.038 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 83 Resp: 10327

Ion	Ratio	Lower	Upper
83	100		
131	9.3	8.4	12.6
85	62.8	51.9	77.9

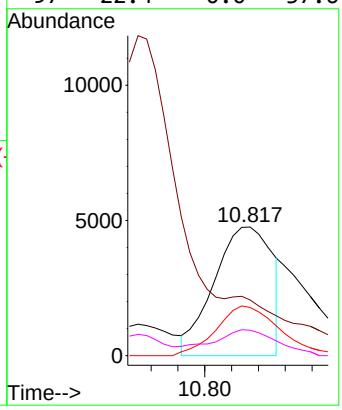




#71
1,2,3-Trichloropropane
Concen: 1.742 ug/l m
RT: 10.817 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 75 Resp: 717

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	42.1	0.0	73.2
97	22.4	0.0	37.6



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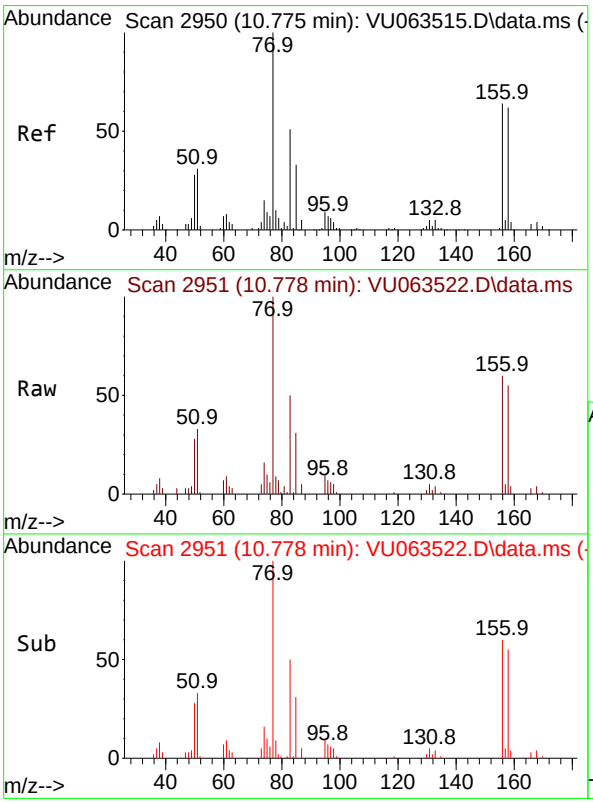
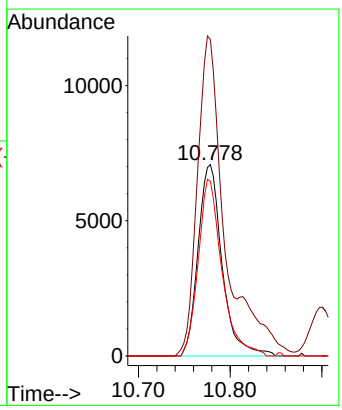
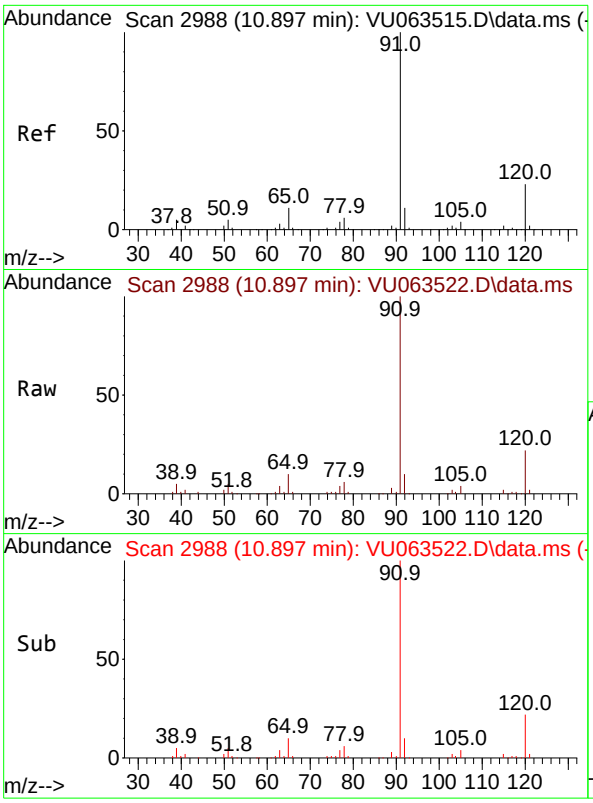


#72
Bromobenzene
Concen: 2.007 ug/l
RT: 10.778 min Scan# 2951
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:156 Resp: 12879

Ion	Ratio	Lower	Upper
156	100		
77	162.7	0.0	315.2
158	91.3	0.0	195.4

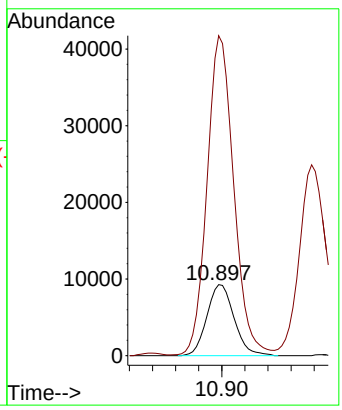




#73
n-propylbenzene
Concen: 2.023 ug/l
RT: 10.897 min Scan# 2
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:120 Resp: 1514

Ion	Ratio	Lower	Upper
120	100		
91	440.3	343.1	514.7



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

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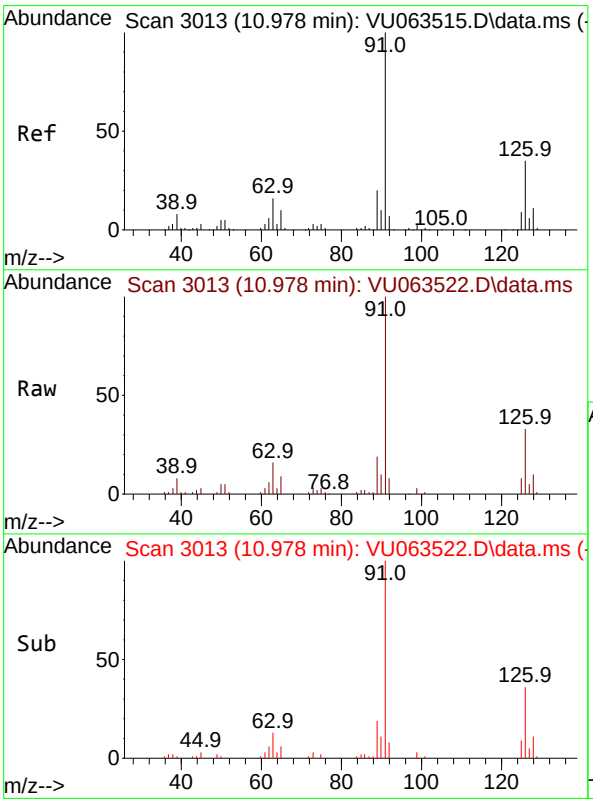
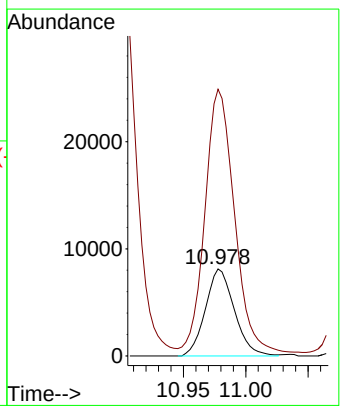
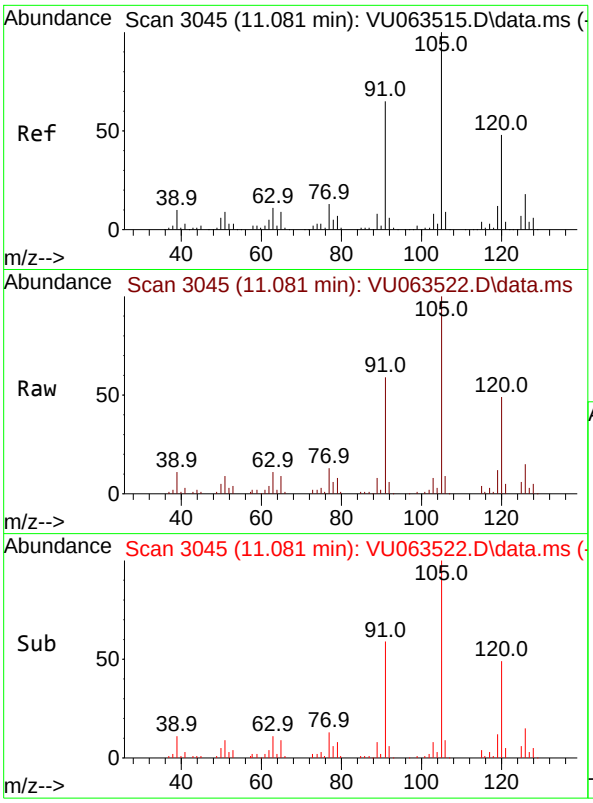


#74
2-Chlorotoluene
Concen: 1.982 ug/l
RT: 10.978 min Scan# 3013
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:126 Resp: 13109

Ion	Ratio	Lower	Upper
126	100		
91	313.6	0.0	606.0





#75
1,3,5-Trimethylbenzene
Concen: 1.986 ug/l
RT: 11.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:105 Resp: 4717

Ion	Ratio	Lower	Upper
105	100		
120	47.7	37.8	56.8

Instrument :
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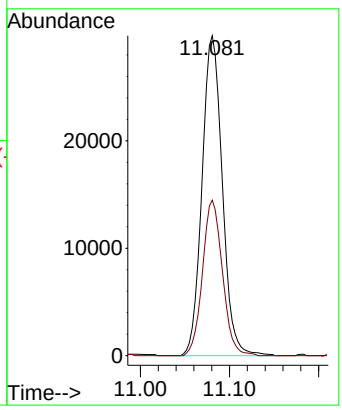
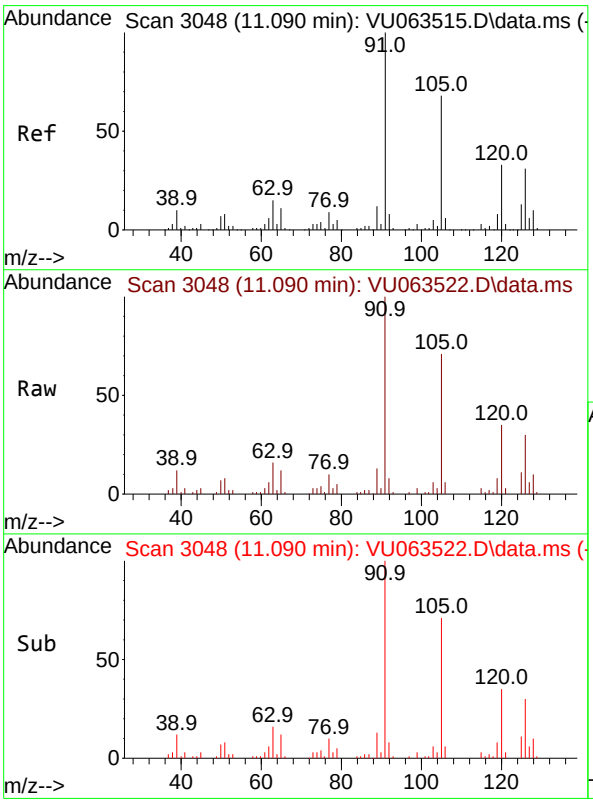
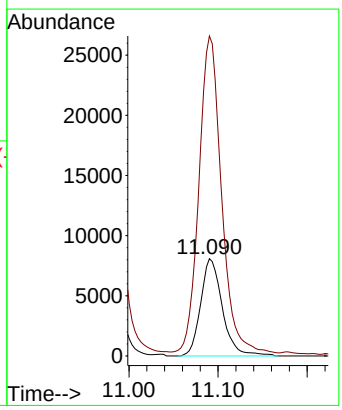


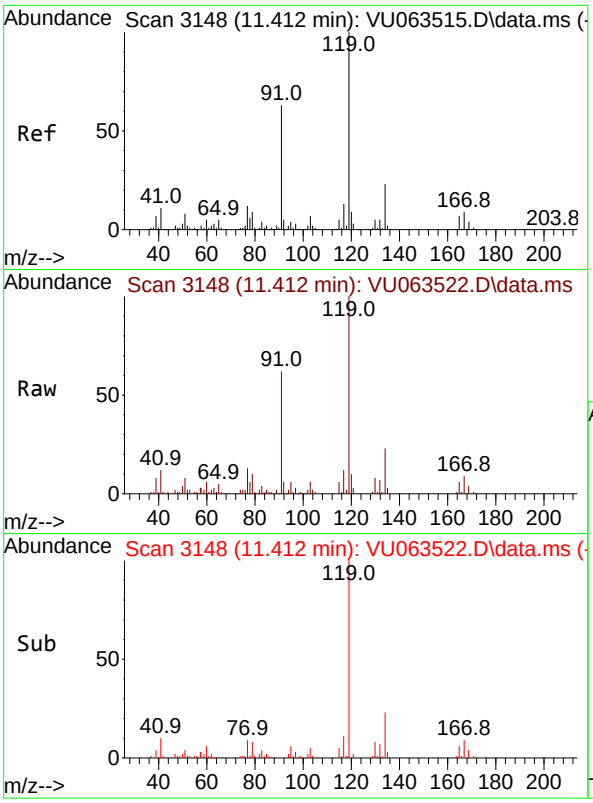


#76
4-Chlorotoluene
Concen: 2.033 ug/l
RT: 11.090 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:126 Resp: 13659

Ion	Ratio	Lower	Upper
126	100		
91	339.0	0.0	682.2





#77
tert-Butylbenzene
Concen: 2.000 ug/l
RT: 11.412 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:119 Resp: 4540

Ion	Ratio	Lower	Upper
119	100		
91	63.2	30.7	92.1
134	23.2	18.5	27.7

Instrument :
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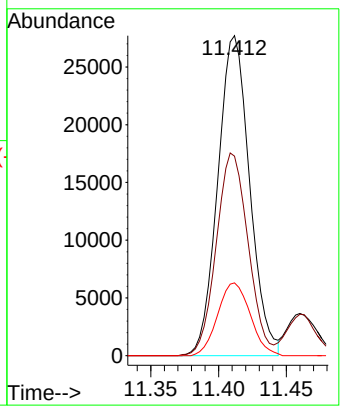
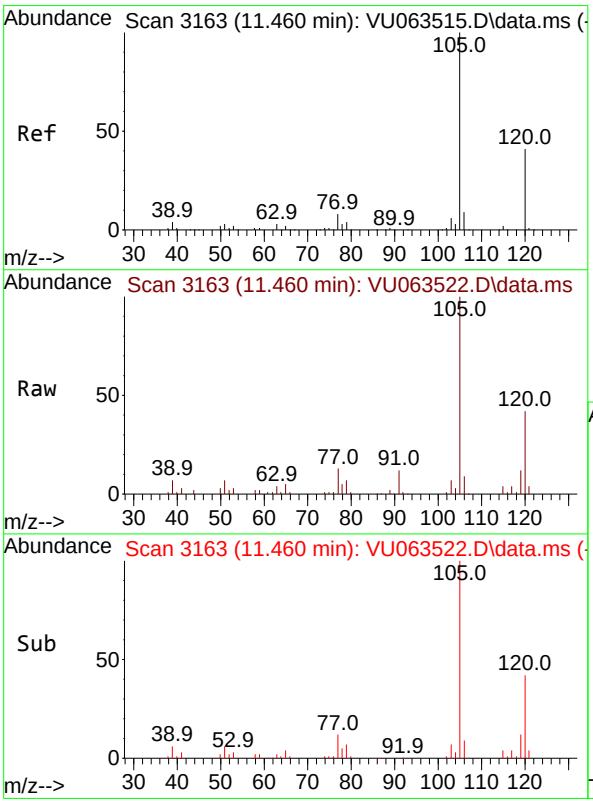
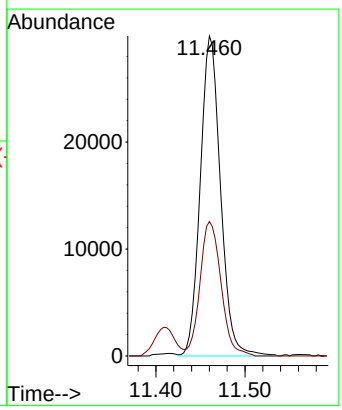


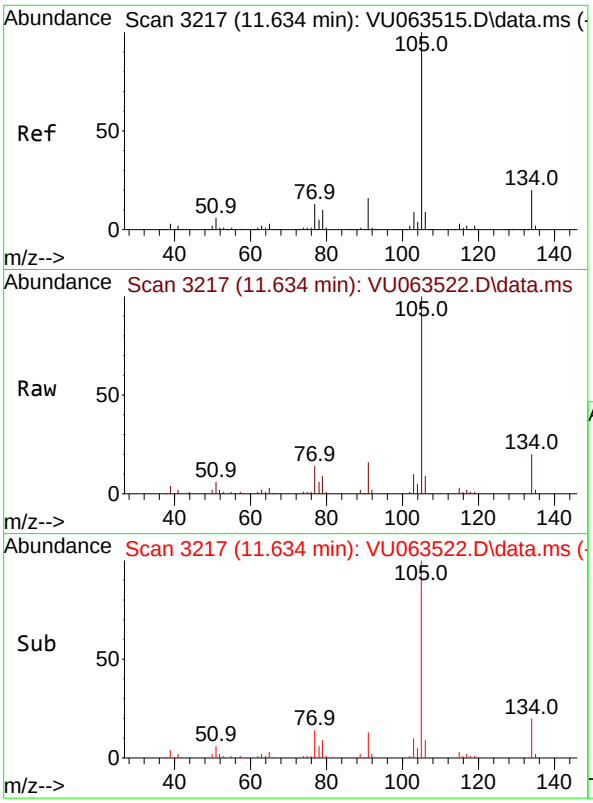


#78
1,2,4-Trimethylbenzene
Concen: 2.009 ug/l
RT: 11.460 min Scan# 3163
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:105 Resp: 47334

Ion	Ratio	Lower	Upper
105	100		
120	43.6	22.7	68.0





#79
sec-Butylbenzene
Concen: 2.030 ug/l
RT: 11.634 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:105 Resp: 6213

Ion	Ratio	Lower	Upper
105	100		
134	19.5	16.2	24.4

Instrument :
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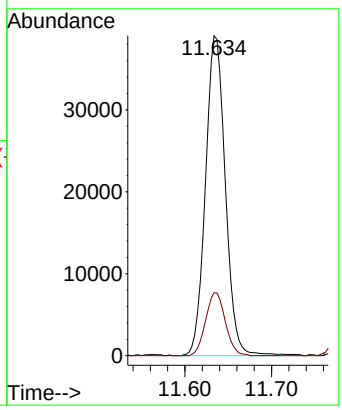
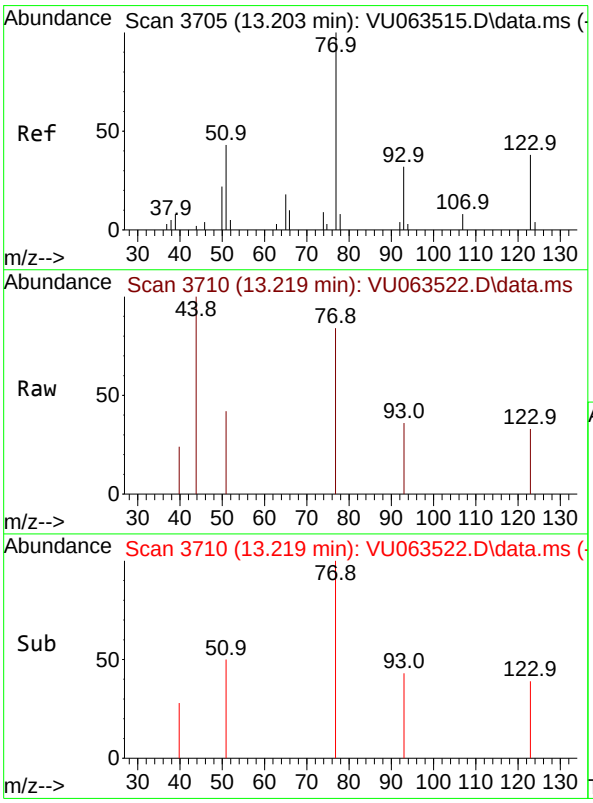
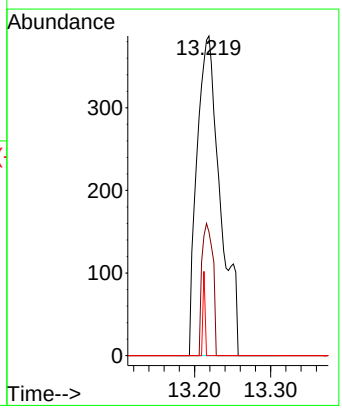


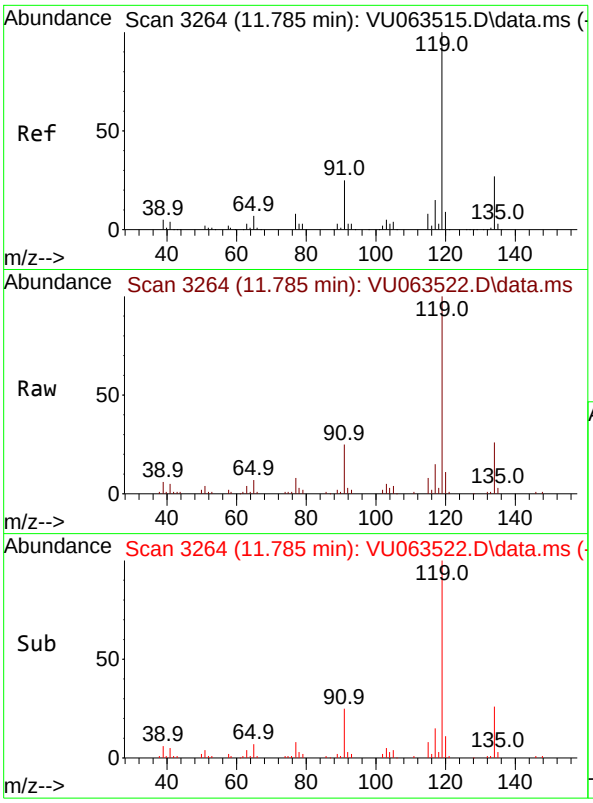


#80
Nitrobenzene
Concen: 10.269 ug/l m
RT: 13.219 min Scan# 3710
Delta R.T. 0.016 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 77 Resp: 815

Ion	Ratio	Lower	Upper
77	100		
123	19.3	16.9	59.7
65	2.5	16.5	20.9#

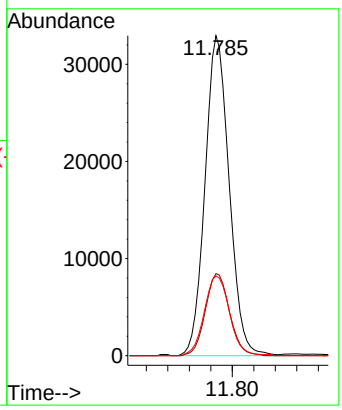




#81
p-Isopropyltoluene
Concen: 2.012 ug/l
RT: 11.785 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:119 Resp: 5142

Ion	Ratio	Lower	Upper
119	100		
134	25.6	21.1	31.7
91	26.0	19.8	29.8



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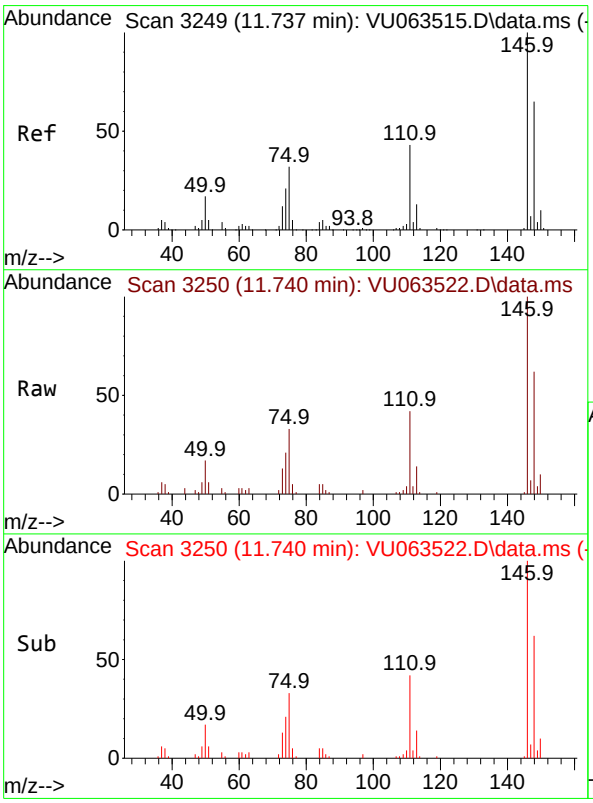
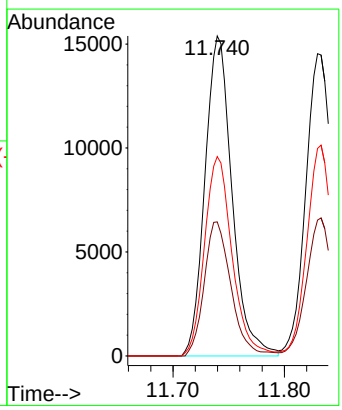
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

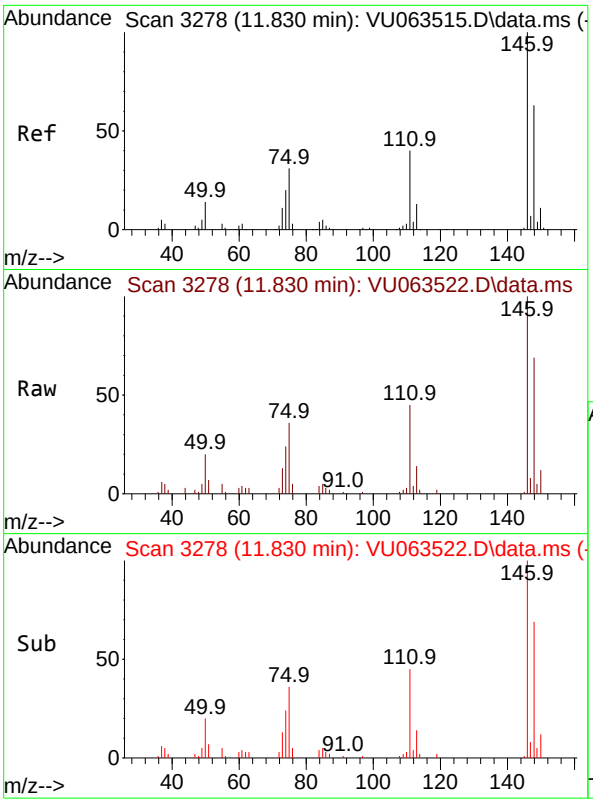


#82
1,3-Dichlorobenzene
Concen: 2.031 ug/l
RT: 11.740 min Scan# 3250
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:146 Resp: 26072

Ion	Ratio	Lower	Upper
146	100		
111	41.5	33.8	50.6
148	63.3	51.5	77.3

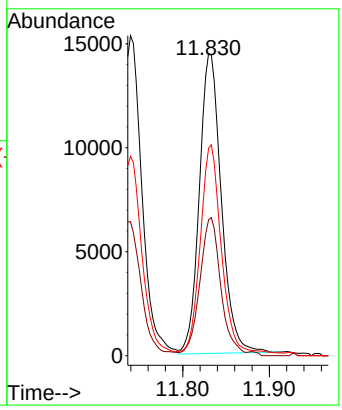




#83
1,4-Dichlorobenzene
Concen: 1.977 ug/l
RT: 11.830 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:146 Resp: 2540

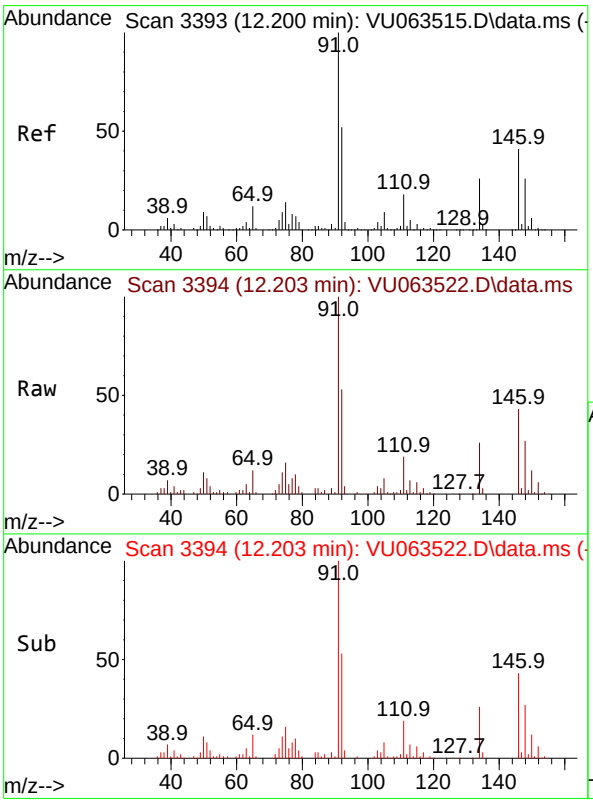
Ion	Ratio	Lower	Upper
146	100		
111	41.9	32.0	48.0
148	66.9	50.2	75.2



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

Manual Integrations
APPROVED

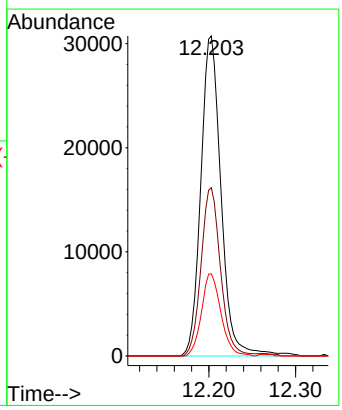
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

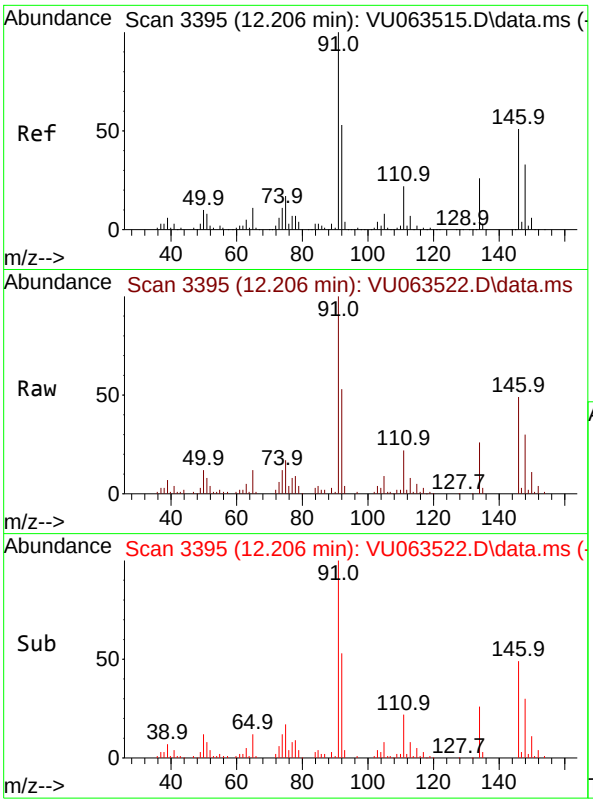


#84
n-Butylbenzene
Concen: 2.095 ug/l
RT: 12.203 min Scan# 3394
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 91 Resp: 49653

Ion	Ratio	Lower	Upper
91	100		
92	50.8	41.5	62.3
134	24.7	20.6	30.8

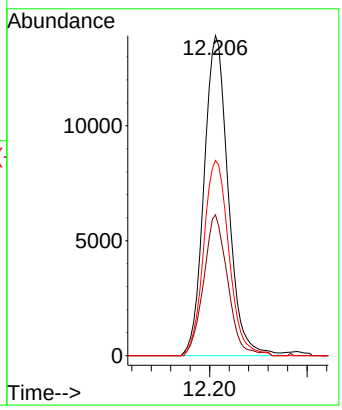




#85
1,2-Dichlorobenzene
Concen: 1.985 ug/l
RT: 12.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:146 Resp: 2394

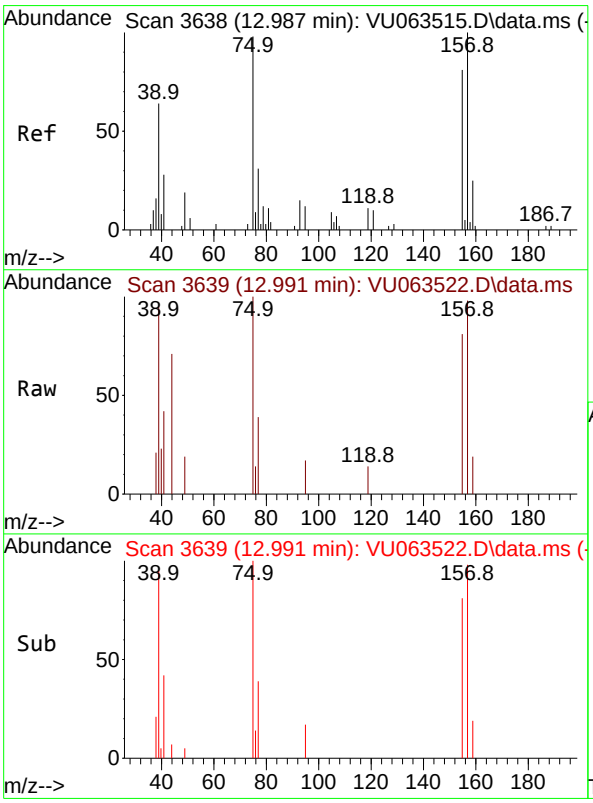
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.7	65.1
148	63.8	31.8	95.3



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

Manual Integrations
APPROVED

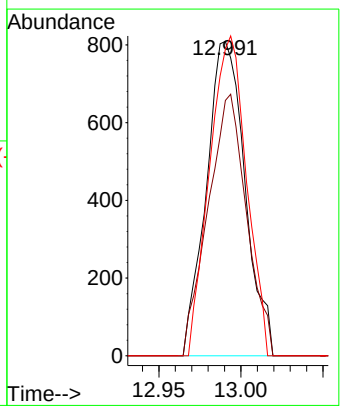
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

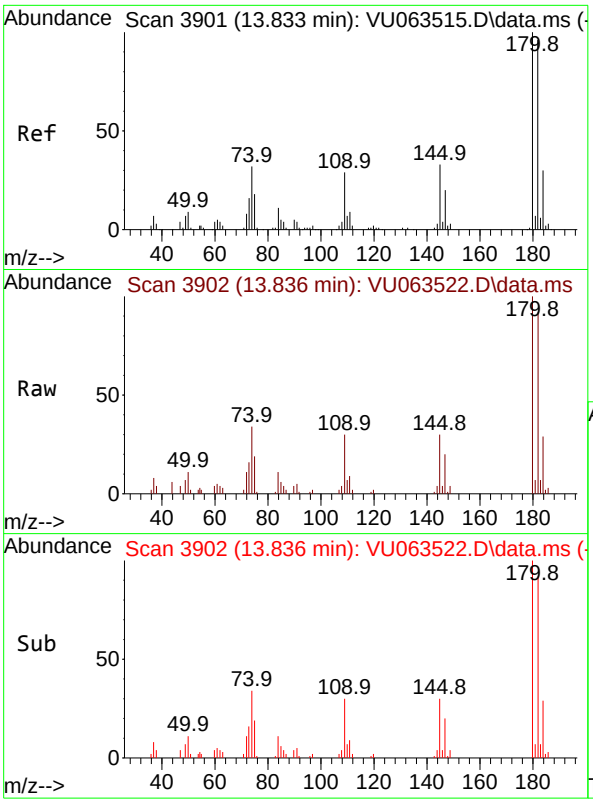


#86
1,2-Dibromo-3-Chloropropane
Concen: 2.003 ug/l
RT: 12.991 min Scan# 3639
Delta R.T. 0.004 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion: 75 Resp: 1326

Ion	Ratio	Lower	Upper
75	100		
155	82.9	65.8	98.6
157	97.0	81.4	122.2





#87
1,2,4-Trichlorobenzene
Concen: 2.028 ug/l
RT: 13.836 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

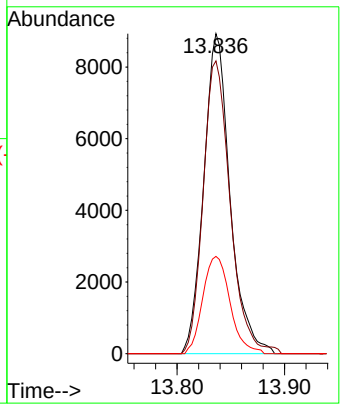
Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

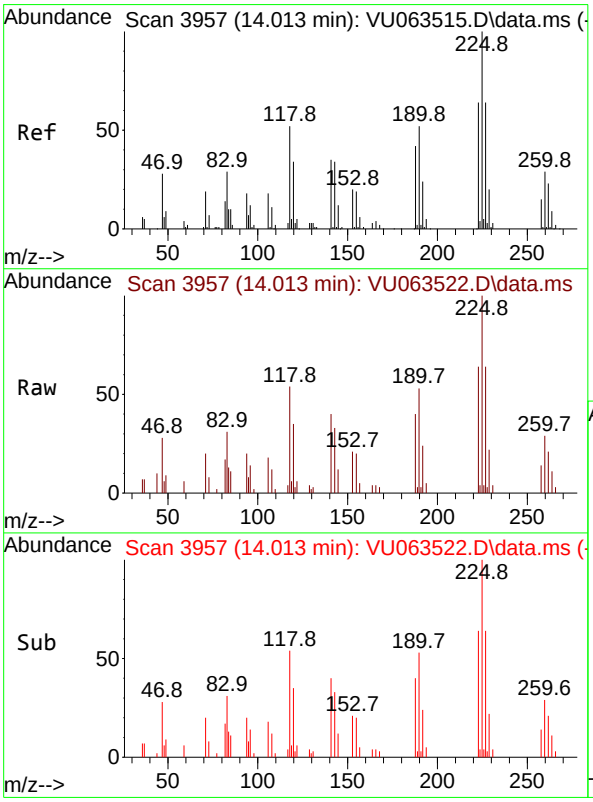
Tgt Ion:180 Resp: 1521

Ion	Ratio	Lower	Upper
180	100		
182	93.9	76.2	114.4
145	31.4	26.2	39.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

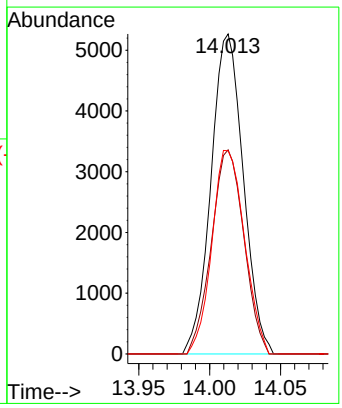


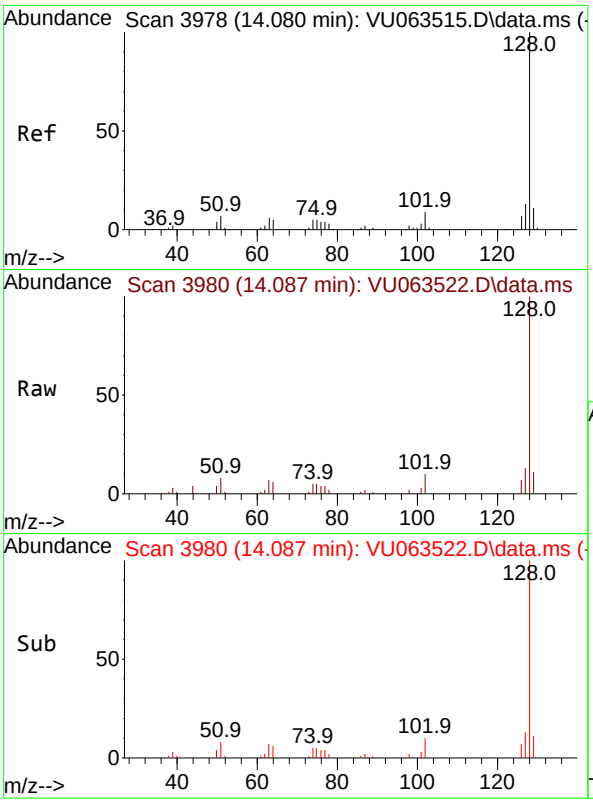


#88
Hexachlorobutadiene
Concen: 1.962 ug/l
RT: 14.013 min Scan# 3957
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:225 Resp: 8359

Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.8	76.2
227	63.9	51.0	76.6

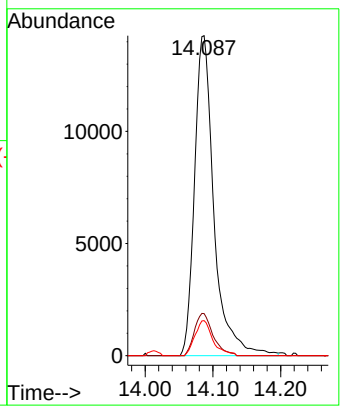




#89
Naphthalene
Concen: 2.112 ug/l
RT: 14.087 min Scan# 3
Delta R.T. 0.007 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:128 Resp: 2838

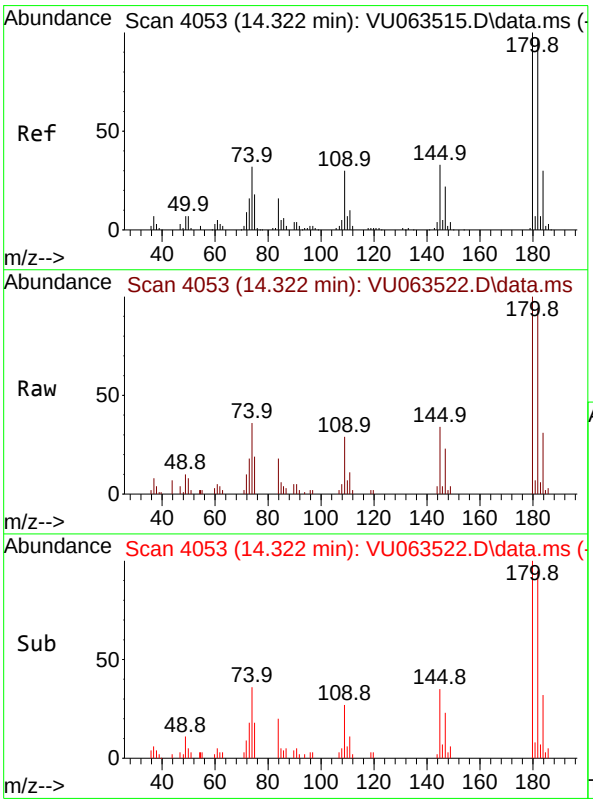
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.4
129	10.1	8.8	13.2



Instrument :
MSVOA_U
ClientSampleId :
VU0717WBSD01

Manual Integrations
APPROVED

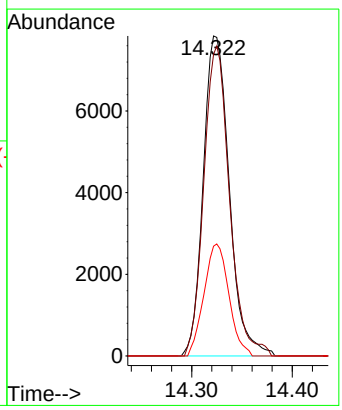
Reviewed By :Mahesh Dadoda 07/18/2025
Supervised By :Semsettin Yesilyurt 07/21/2025



#90
1,2,3-Trichlorobenzene
Concen: 2.033 ug/l
RT: 14.322 min Scan# 4053
Delta R.T. 0.000 min
Lab File: VU063522.D
Acq: 17 Jul 2025 13:13

Tgt Ion:180 Resp: 14091

Ion	Ratio	Lower	Upper
180	100		
182	95.5	78.0	117.0
145	33.4	27.3	40.9



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

Manual Integration Report

Sequence:	VU071625	Instrument	MSVOA_u

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VU063511.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:18:34 AM	Sam	7/17/2025 8:26:15 AM	Peak Integrated by Software
VSTDICC0.5	VU063511.D	Acrylonitrile	MMDadoda	7/17/2025 8:18:34 AM	Sam	7/17/2025 8:26:15 AM	Peak Integrated by Software
VSTDICC0.5	VU063511.D	Methacrylonitrile	MMDadoda	7/17/2025 8:18:34 AM	Sam	7/17/2025 8:26:15 AM	Peak Integrated by Software
VSTDICC0.5	VU063511.D	Propionitrile	MMDadoda	7/17/2025 8:18:34 AM	Sam	7/17/2025 8:26:15 AM	Peak Integrated by Software
VSTDICC0.5	VU063511.D	t-1,4-Dichloro-2-butene	MMDadoda	7/17/2025 8:18:34 AM	Sam	7/17/2025 8:26:15 AM	Peak Integrated by Software
VSTDICC001	VU063512.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:18:32 AM	Sam	7/17/2025 8:26:16 AM	Peak Integrated by Software
VSTDICC001	VU063512.D	Nitrobenzene	MMDadoda	7/17/2025 8:18:32 AM	Sam	7/17/2025 8:26:16 AM	Peak Integrated by Software
VSTDICC001	VU063512.D	t-1,4-Dichloro-2-butene	MMDadoda	7/17/2025 8:18:32 AM	Sam	7/17/2025 8:26:16 AM	Peak Integrated by Software
VSTDICC002	VU063513.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:18:40 AM	Sam	7/17/2025 8:26:28 AM	Peak Integrated by Software
VSTDICC002	VU063513.D	Acrylonitrile	MMDadoda	7/17/2025 8:18:40 AM	Sam	7/17/2025 8:26:28 AM	Peak Integrated by Software
VSTDICC002	VU063513.D	t-1,4-Dichloro-2-butene	MMDadoda	7/17/2025 8:18:40 AM	Sam	7/17/2025 8:26:28 AM	Peak Integrated by Software
VSTDICC005	VU063514.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:18:42 AM	Sam	7/17/2025 8:26:34 AM	Peak Integrated by Software
VSTDICC005	VU063514.D	t-1,4-Dichloro-2-butene	MMDadoda	7/17/2025 8:18:42 AM	Sam	7/17/2025 8:26:34 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VU071625	Instrument	MSVOA_u

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VU063515.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:18:43 AM	Sam	7/17/2025 8:26:27 AM	Peak Integrated by Software
VSTDICCC010	VU063515.D	t-1,4-Dichloro-2-butene	MMDadoda	7/17/2025 8:18:43 AM	Sam	7/17/2025 8:26:27 AM	Peak Integrated by Software
VSTDICC015	VU063516.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:18:44 AM	Sam	7/17/2025 8:26:29 AM	Peak Integrated by Software
VSTDICC015	VU063516.D	t-1,4-Dichloro-2-butene	MMDadoda	7/17/2025 8:18:44 AM	Sam	7/17/2025 8:26:29 AM	Peak Integrated by Software
VSTDICV010	VU063517.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:18:46 AM	Sam	7/17/2025 8:26:29 AM	Peak Integrated by Software
VSTDICV010	VU063517.D	Nitrobenzene	MMDadoda	7/17/2025 8:18:46 AM	Sam	7/17/2025 8:26:29 AM	Peak Integrated by Software
VSTDICV010	VU063517.D	t-1,4-Dichloro-2-butene	MMDadoda	7/17/2025 8:18:46 AM	Sam	7/17/2025 8:26:29 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VU071725	Instrument	MSVOA_u

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VU063519.D	1,2,3-Trichloropropane	MMDadoda	7/18/2025 3:02:41 PM	Sam	7/21/2025 9:37:37 PM	Peak Integrated by Software
VSTDCCC010	VU063519.D	t-1,4-Dichloro-2-butene	MMDadoda	7/18/2025 3:02:41 PM	Sam	7/21/2025 9:37:37 PM	Peak Integrated by Software
VU0717WBS01	VU063521.D	1,2,3-Trichloropropane	MMDadoda	7/18/2025 3:02:42 PM	Sam	7/21/2025 9:37:50 PM	Peak Integrated by Software
VU0717WBS01	VU063521.D	Nitrobenzene	MMDadoda	7/18/2025 3:02:42 PM	Sam	7/21/2025 9:37:50 PM	Peak Integrated by Software
VU0717WBS01	VU063521.D	t-1,4-Dichloro-2-butene	MMDadoda	7/18/2025 3:02:42 PM	Sam	7/21/2025 9:37:50 PM	Peak Integrated by Software
VU0717WBSD01	VU063522.D	1,2,3-Trichloropropane	MMDadoda	7/18/2025 3:02:43 PM	Sam	7/21/2025 9:37:57 PM	Peak Integrated by Software
VU0717WBSD01	VU063522.D	Nitrobenzene	MMDadoda	7/18/2025 3:02:43 PM	Sam	7/21/2025 9:37:57 PM	Peak Integrated by Software
VU0717WBSD01	VU063522.D	t-1,4-Dichloro-2-butene	MMDadoda	7/18/2025 3:02:43 PM	Sam	7/21/2025 9:37:57 PM	Peak Integrated by Software
VSTDCCC010	VU063530.D	1,2,3-Trichloropropane	MMDadoda	7/18/2025 3:02:48 PM	Sam	7/21/2025 9:38:30 PM	Peak Integrated by Software
VSTDCCC010	VU063530.D	t-1,4-Dichloro-2-butene	MMDadoda	7/18/2025 3:02:48 PM	Sam	7/21/2025 9:38:30 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU071625

Review By	Mahesh Dadoda	Review On	7/17/2025 8:19:30 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/17/2025 8:26:51 AM		
SubDirectory	VU071625	HP Acquire Method	MSVOA_U	HP Processing Method	524u071625dw.m

STD. NAME	STD REF.#
Tune/Reschk	VP134776
Initial Calibration Stds	VP134778,VP134779,VP134780,VP134781,VP134782,VP134783
CCC	
Internal Standard/PEM	VP134722
ICV/I.BLK	VP134784
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VU063510.D	16 Jul 2025 08:13	MD/SY	Ok
2	VSTDICC0.5	VU063511.D	16 Jul 2025 09:24	MD/SY	Ok,M
3	VSTDICC001	VU063512.D	16 Jul 2025 09:54	MD/SY	Ok,M
4	VSTDICC002	VU063513.D	16 Jul 2025 10:27	MD/SY	Ok,M
5	VSTDICC005	VU063514.D	16 Jul 2025 11:00	MD/SY	Ok,M
6	VSTDICCC010	VU063515.D	16 Jul 2025 11:37	MD/SY	Ok,M
7	VSTDICC015	VU063516.D	16 Jul 2025 12:11	MD/SY	Ok,M
8	VSTDICV010	VU063517.D	16 Jul 2025 14:19	MD/SY	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU071725

Review By	Mahesh Dadoda	Review On	7/18/2025 3:02:54 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/21/2025 9:38:41 PM		
SubDirectory	VU071725	HP Acquire Method		HP Processing Method	524u071625dw.m

STD. NAME	STD REF.#
Tune/Reschk	VP134805
Initial Calibration Stds	
CCC	VP134806,VP134807
Internal Standard/PEM	VP134722
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VU063518.D	17 Jul 2025 08:10	MD/SY	Ok
2	VSTDCCC010	VU063519.D	17 Jul 2025 09:25	MD/SY	Ok,M
3	VU0717WBL01	VU063520.D	17 Jul 2025 11:31	MD/SY	Ok
4	VU0717WBS01	VU063521.D	17 Jul 2025 12:43	MD/SY	Ok,M
5	VU0717WBSD01	VU063522.D	17 Jul 2025 13:13	MD/SY	Ok,M
6	Q2552-09	VU063523.D	17 Jul 2025 14:16	MD/SY	Dilution
7	Q2552-09DL	VU063524.D	17 Jul 2025 14:47	MD/SY	Ok
8	Q2552-10	VU063525.D	17 Jul 2025 15:17	MD/SY	Dilution
9	Q2552-10DL	VU063526.D	17 Jul 2025 15:48	MD/SY	Ok
10	RL-CHECK	VU063527.D	17 Jul 2025 16:18	MD/SY	Ok,M
11	RL-CHECK	VU063528.D	17 Jul 2025 16:49	MD/SY	Ok,M
12	Q2552-07	VU063529.D	17 Jul 2025 17:20	MD/SY	Dilution
13	VSTDCCC010	VU063530.D	17 Jul 2025 18:21	MD/SY	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU071625

Review By	Mahesh Dadoda	Review On	7/17/2025 8:19:30 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/17/2025 8:26:51 AM		
SubDirectory	VU071625	HP Acquire Method	MSVOA_U	HP Processing Method	524u071625dw.m

STD. NAME	STD REF.#
Tune/Reschk	VP134776
Initial Calibration Stds	VP134778,VP134779,VP134780,VP134781,VP134782,VP134783
CCC	
Internal Standard/PEM	VP134722
ICV/I.BLK	VP134784
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VU063510.D	16 Jul 2025 08:13		MD/SY	Ok
2	VSTDICC0.5	VSTDICC0.5	VU063511.D	16 Jul 2025 09:24		MD/SY	Ok,M
3	VSTDICC001	VSTDICC001	VU063512.D	16 Jul 2025 09:54	LR - 10 And QR - 80,86	MD/SY	Ok,M
4	VSTDICC002	VSTDICC002	VU063513.D	16 Jul 2025 10:27		MD/SY	Ok,M
5	VSTDICC005	VSTDICC005	VU063514.D	16 Jul 2025 11:00		MD/SY	Ok,M
6	VSTDICCC010	VSTDICCC010	VU063515.D	16 Jul 2025 11:37		MD/SY	Ok,M
7	VSTDICC015	VSTDICC015	VU063516.D	16 Jul 2025 12:11		MD/SY	Ok,M
8	VSTDICV010	ICVVU071625	VU063517.D	16 Jul 2025 14:19	ICV failed for com.#13,69,80	MD/SY	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QCBatch ID # VU071725

Review By	Mahesh Dadoda	Review On	7/18/2025 3:02:54 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/21/2025 9:38:41 PM		
SubDirectory	VU071725	HP Acquire Method		HP Processing Method	524u071625dw.m

STD. NAME	STD REF.#
Tune/Reschk	VP134805
Initial Calibration Stds	
CCC	VP134806,VP134807
Internal Standard/PEM	VP134722
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VU063518.D	17 Jul 2025 08:10		MD/SY	Ok
2	VSTDCCC010	VSTDCCC010	VU063519.D	17 Jul 2025 09:25	524.2 PT study	MD/SY	Ok,M
3	VU0717WBL01	VU0717WBL01	VU063520.D	17 Jul 2025 11:31		MD/SY	Ok
4	VU0717WBS01	VU0717WBS01	VU063521.D	17 Jul 2025 12:43		MD/SY	Ok,M
5	VU0717WBSD01	VU0717WBSD01	VU063522.D	17 Jul 2025 13:13		MD/SY	Ok,M
6	Q2552-09	WS0725-PT-THM-WS	VU063523.D	17 Jul 2025 14:16	Need 5X(THM)	MD/SY	Dilution
7	Q2552-09DL	WS0725-PT-THM-WSD	VU063524.D	17 Jul 2025 14:47		MD/SY	Ok
8	Q2552-10	WS0725-PT-ADD-WS	VU063525.D	17 Jul 2025 15:17	Need 4X(ADD-WS)	MD/SY	Dilution
9	Q2552-10DL	WS0725-PT-ADD-WSD	VU063526.D	17 Jul 2025 15:48		MD/SY	Ok
10	RL-CHECK	RL-CHECK	VU063527.D	17 Jul 2025 16:18	RL-0.5 ppb	MD/SY	Ok,M
11	RL-CHECK	RL-CHECK	VU063528.D	17 Jul 2025 16:49	RL-1.0 ppb	MD/SY	Ok,M
12	Q2552-07	WS0725-PT-RVOA-WS	VU063529.D	17 Jul 2025 17:20	Need 4X(RVOA)	MD/SY	Dilution
13	VSTDCCC010	VSTDCCC010EC	VU063530.D	17 Jul 2025 18:21		MD/SY	Ok,M

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : Q2552

Test : VOCMS Group3

Prepbatch ID :

Sequence ID/Qc Batch ID: VU071725,

Standard ID :
VP133953,VP134722,VP134723,VP134805,VP134806,VP134807,

Chemical ID :
V13391,V13880,V14419,V14626,V14629,V14710,V14747,V14838,V15045,W3112,

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP133953	05/19/2025	11/09/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/21/2025

FROM 0.25000ml of V13391 + 24.75000ml of V14626 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
552	524 Internal STD and Surrogate Mix, 5 PPM	VP134722	07/11/2025	12/31/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 0.02500ml of V15045 + 9.97500ml of V14629 = Final Quantity: 10.000 ml

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Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
553	524 Calibration CC Mix Working STD, 25 PPM	VP134723	07/11/2025	09/30/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 0.12500ml of V13880 + 0.12500ml of V14419 + 0.12500ml of V14747 + 0.12500ml of V14838 + 0.25000ml of V14710 + 9.24500ml of V14629 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1736	BFB	VP134805	07/17/2025	07/18/2025	Mahesh Dadoda	None	None	Semsettin Yesilyurt 07/23/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

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Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1131	10 PPB CCC, 524.2	VP134806	07/17/2025	07/18/2025	Mahesh Dadoda	None	None	Semsettin Yesilyurt 07/23/2025

FROM 39.97600ml of W3112 + 0.00800ml of VP134722 + 0.01600ml of VP134723 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP134807	07/17/2025	07/18/2025	Mahesh Dadoda	None	None	Semsettin Yesilyurt 07/23/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	564323 / Custom Oxygenates Standard	A0199211	06/16/2026	06/16/2025 / SAM	06/30/2023 / SAM	V13880

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30601 / VOA Mega Mix, Drinking Water VOA Mega Mix, 524.2 Rev 4.1, 1mL, 2000ug/mL P&TM	A0204639	10/17/2025	10/17/2024 / SAM	06/04/2024 / SAM	V14419

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 #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	12/16/2025	06/16/2025 / SAM	12/17/2024 / SAM	V14710

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	12/16/2025	06/16/2025 / SAM	12/17/2024 / SAM	V14747

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	560065 / Custom Standard, 524 Std w/ COC [CS 8005]	A0220861	01/31/2026	06/16/2025 / SAM	01/16/2025 / SAM	V14838

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30201 / VOA Mix,500 series method, 524 Internal Std., 2000ug/mL. P&TM, 1mL/ampul	A0223883	07/11/2026	07/11/2025 / SAM	07/01/2025 / SAM	V15045

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
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Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
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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

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Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

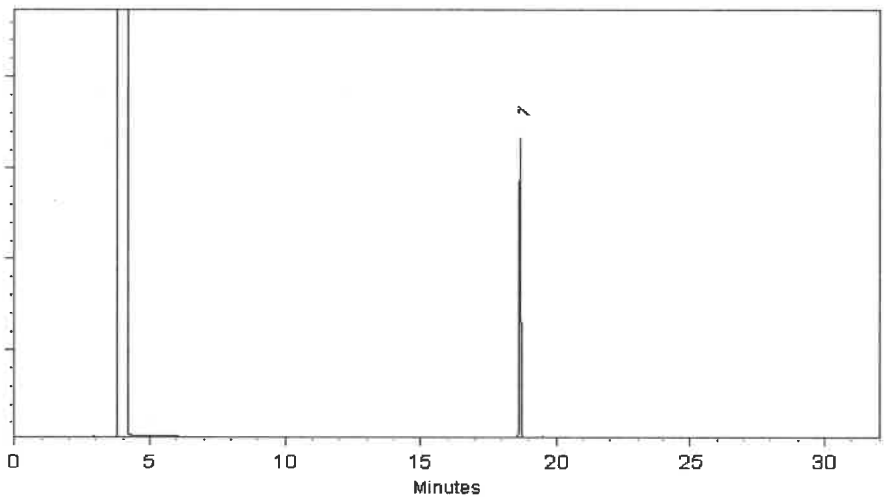
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

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. : 564323 **Lot No.:** A0199211

Description : Custom Oxygenates Standard

Custom Oxygenates Standard 2,000-10,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2028 **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	101619K21F-1	99%	10,093.2 µg/mL	+/- 125.6116
2	Diisopropyl ether (DIPE)	108-20-3	STBK3450	99%	2,011.0 µg/mL	+/- 25.0950
3	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCP5997	99%	2,009.8 µg/mL	+/- 25.0800
4	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	2,009.2 µg/mL	+/- 25.0726
5	tert-Amyl ethyl ether (TAEE)	919-94-8	IKVYB	97%	2,010.4 µg/mL	+/- 25.0878

* 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.)

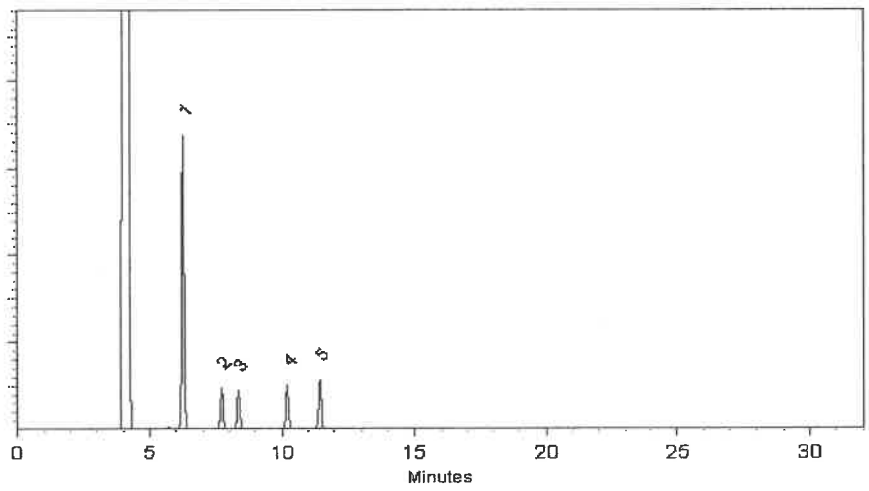
Inj. Temp:
200°C

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.

Bryan Snyder - Operations Tech I

Date Mixed: 22-Jun-2023 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Jun-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

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. : 30601 **Lot No.:** A0204639

Description : Drinking Water VOA MegaMix™, 524.2 Rev 4.1

Drinking Water VOA Mega Mix 524.2 Rev 4.1, 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Diethyl ether (ethyl ether)	60-29-7	SHBQ1495	99%	2,016.9 µg/mL	+/- 70.1908
2	1,1-dichloroethene	75-35-4	SHBG8609V	99%	2,009.6 µg/mL	+/- 69.9229
3	Iodomethane (methyl iodide)	74-88-4	MKCN8012	99%	2,016.5 µg/mL	+/- 70.1787
4	Allyl chloride (3-chloropropene)	107-05-1	RD221118RSR	99%	2,017.0 µg/mL	+/- 69.7168
5	Methylene chloride (dichloromethane)	75-09-2	231383	99%	2,013.2 µg/mL	+/- 70.0499
6	Carbon disulfide	75-15-0	N28F701	99%	2,017.0 µg/mL	+/- 70.1961
7	Acrylonitrile	107-13-1	102466R02E	99%	2,017.1 µg/mL	+/- 70.1995
8	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBP0179	99%	2,017.0 µg/mL	+/- 69.7168
9	trans-1,2-Dichloroethene	156-60-5	MKCP9516	99%	2,011.9 µg/mL	+/- 70.0038
10	1,1-Dichloroethane	75-34-3	852900	99%	2,010.5 µg/mL	+/- 69.9560
11	Propionitrile	107-12-0	BCCH7430	99%	2,017.0 µg/mL	+/- 70.1943
12	2,2-Dichloropropane	594-20-7	RD230426	99%	2,013.2 µg/mL	+/- 70.0652
13	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	2,014.0 µg/mL	+/- 70.0903
14	Methacrylonitrile	126-98-7	1012014	99%	2,015.7 µg/mL	+/- 70.1491
15	Methyl acrylate	96-33-3	SHBG6616V	99%	2,019.0 µg/mL	+/- 70.2639
16	chloroform	67-66-3	SHBN8469	99%	2,009.7 µg/mL	+/- 69.9273

17	Bromochloromethane	74-97-5	230810JLM	99%	2,016.0	µg/mL	+/- 70.1613
18	Tetrahydrofuran	109-99-9	SHBQ0910	99%	2,019.6	µg/mL	+/- 70.2865
19	1,1,1-trichloroethane	71-55-6	RD230728RSR	99%	2,011.1	µg/mL	+/- 69.9769
20	1-Chlorobutane (Butyl chloride)	109-69-3	SHBC2651V	99%	2,015.0	µg/mL	+/- 69.6476
21	1,1-Dichloropropene	563-58-6	230825JLM	99%	2,018.9	µg/mL	+/- 70.2629
22	carbon tetrachloride	56-23-5	SHBP4875	99%	2,011.5	µg/mL	+/- 69.9890
23	1,2-Dichloroethane	107-06-2	SHBQ0693	99%	2,008.7	µg/mL	+/- 69.8916
24	Benzene	71-43-2	MKCS3357	99%	2,017.4	µg/mL	+/- 70.2100
25	Trichloroethene	79-01-6	SHBN3720	99%	2,008.3	µg/mL	+/- 69.8786
26	1,2-Dichloropropane	78-87-5	BCBR0882V	99%	2,012.1	µg/mL	+/- 70.0117
27	Methyl methacrylate	80-62-6	MKCQ2756	99%	2,017.7	µg/mL	+/- 70.2204
28	Chloroacetonitrile	107-14-2	MKBG6249V	99%	2,006.0	µg/mL	+/- 69.3366
29	bromodichloromethane	75-27-4	MKCF8470	99%	2,012.6	µg/mL	+/- 70.0273
30	Dibromomethane	74-95-3	10233302	99%	2,014.7	µg/mL	+/- 70.1153
31	2-Nitropropane	79-46-9	BCCB9352	97%	2,015.9	µg/mL	+/- 70.1562
32	cis-1,3-Dichloropropene	10061-01-5	RD230406RSR	99%	2,005.0	µg/mL	+/- 69.7655
33	Toluene	108-88-3	MKCS9989	99%	2,019.0	µg/mL	+/- 70.2643
34	Ethyl methacrylate	97-63-2	MKCN6206	97%	2,015.4	µg/mL	+/- 70.1393
35	trans-1,3-Dichloropropene	10061-02-6	RD230727RSR	99%	2,011.3	µg/mL	+/- 69.9838
36	1,1,2-Trichloroethane	79-00-5	FGB01	99%	2,013.2	µg/mL	+/- 70.0491
37	1,3-Dichloropropane	142-28-9	BCCH5357	99%	2,017.1	µg/mL	+/- 70.2002
38	Tetrachloroethene	127-18-4	SHBQ0051	99%	2,011.5	µg/mL	+/- 69.9908
39	dibromochloromethane	124-48-1	MKCQ4517	99%	2,006.6	µg/mL	+/- 69.8185
40	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	2,009.0	µg/mL	+/- 69.9176
41	Chlorobenzene	108-90-7	SHBN6640	99%	2,009.8	µg/mL	+/- 69.9299
42	1,1,1,2-Tetrachloroethane	630-20-6	GC01	99%	2,013.8	µg/mL	+/- 70.0833
43	Ethylbenzene	100-41-4	094632L21G	99%	2,006.8	µg/mL	+/- 69.8411
44	m-Xylene	108-38-3	SHBN6673	99%	2,018.7	µg/mL	+/- 70.2559
45	p-Xylene	106-42-3	SHBP5191	99%	2,008.0	µg/mL	+/- 69.8828
46	o-Xylene	95-47-6	SHBN5105	99%	2,016.3	µg/mL	+/- 70.1724
47	Styrene	100-42-5	MKCQ3390	99%	2,014.8	µg/mL	+/- 70.1209
48	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	2,011.4	µg/mL	+/- 70.0026
49	bromoform	75-25-2	050494L04R	99%	2,009.6	µg/mL	+/- 69.9255
50	1,1,2,2-Tetrachloroethane	79-34-5	OXACF	99%	2,011.7	µg/mL	+/- 69.9986
51	1,2,3-Trichloropropane	96-18-4	Q91-34	98%	2,013.8	µg/mL	+/- 70.0841
52	trans-1,4-dichloro-2-butene	110-57-6	RP231113CTH	94%	2,017.2	µg/mL	+/- 69.7251

53	n-Propylbenzene	103-65-1	095067T18C	99%	2,018.4	µg/mL	+/- 70.2434
54	Bromobenzene	108-86-1	MKCQ7174	99%	2,016.9	µg/mL	+/- 70.1919
55	1,3,5-Trimethylbenzene	108-67-8	BCCF4166	99%	2,017.0	µg/mL	+/- 70.1961
56	2-Chlorotoluene	95-49-8	235783M23T	99%	2,017.8	µg/mL	+/- 70.2253
57	4-Chlorotoluene	106-43-4	BCCG9286	99%	2,014.1	µg/mL	+/- 70.0958
58	tert-Butylbenzene	98-06-6	STBJ1937	99%	2,005.2	µg/mL	+/- 69.7868
59	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	2,015.9	µg/mL	+/- 70.1571
60	Pentachloroethane	76-01-7	13550700	97%	2,012.8	µg/mL	+/- 69.5699
61	sec-Butylbenzene	135-98-8	MKCP2266	99%	2,011.0	µg/mL	+/- 69.9872
62	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCR6143	99%	2,014.6	µg/mL	+/- 70.1111
63	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	2,003.2	µg/mL	+/- 69.7020
64	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	2,015.0	µg/mL	+/- 70.1108
65	n-Butylbenzene	104-51-8	09418JJ	99%	2,005.3	µg/mL	+/- 69.7882
66	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	2,009.0	µg/mL	+/- 69.9020
67	Hexachloroethane	67-72-1	QTORH	99%	2,016.0	µg/mL	+/- 69.6822
68	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	2,005.1	µg/mL	+/- 69.7821
69	Nitrobenzene	98-95-3	10224044	99%	2,017.9	µg/mL	+/- 70.2256
70	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	2,015.0	µg/mL	+/- 70.1251
71	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	2,001.7	µg/mL	+/- 69.6639
72	Naphthalene	91-20-3	STBL1057	99%	2,008.9	µg/mL	+/- 69.9149
73	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	2,012.3	µg/mL	+/- 70.0318

* 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 pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

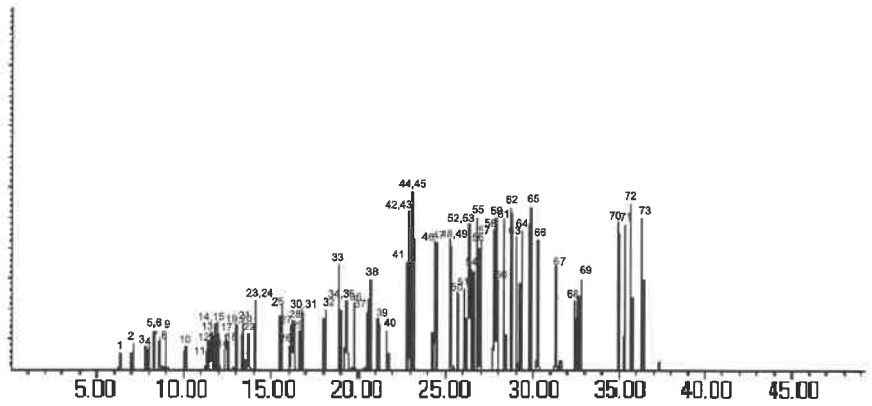
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
20.0 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.

John Friedline - Operations Technician I

Date Mixed: 20-Nov-2023 **Balance Serial #** 1128342314

Dillan Murphy - Operations Technician I

Date Passed: 29-Nov-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

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V14697-to-14726

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

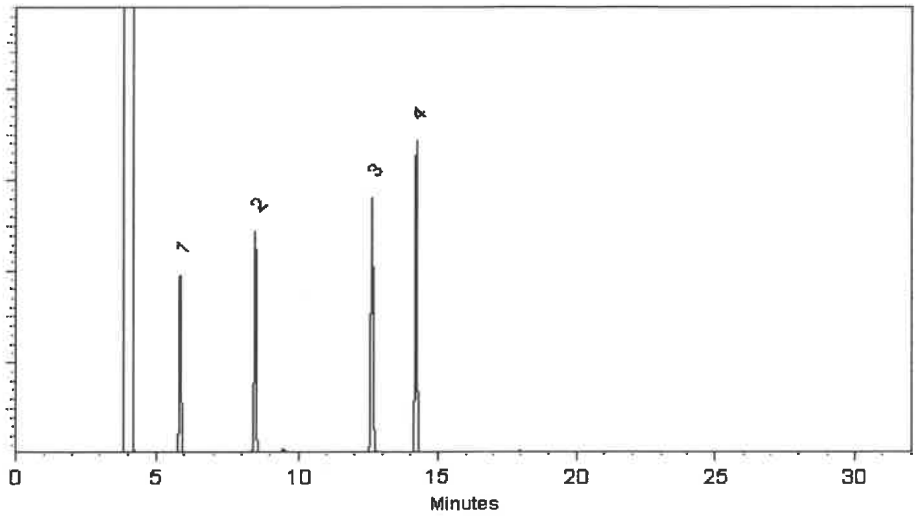
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I **Date Mixed:** 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

30 Vial

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V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

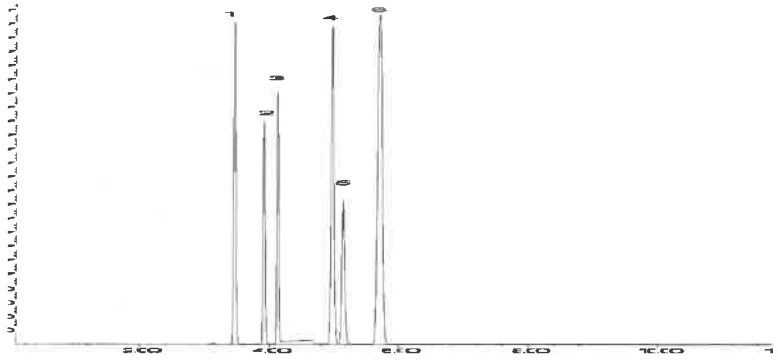
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Rec 01/16/25

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CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

chromatographic

V14837 to V14841

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. : 560065 **Lot No.:** A0220861

Description : Custom 524 Standard

Custom 524 Standard 2,000-10,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00022779	99%	2,009.0 µg/mL	+/- 69.4402
2	tert-Butanol (TBA)	75-65-0	SHBR5545	99%	10,036.0 µg/mL	+/- 346.8674
3	Acrylonitrile	107-13-1	102466R02E	99%	2,015.0 µg/mL	+/- 69.6476
4	Propionitrile	107-12-0	BCCL0691	99%	8,074.0 µg/mL	+/- 279.0744
5	Tetrahydrofuran	109-99-9	SHBR7392	99%	2,009.0 µg/mL	+/- 69.4402
6	Cyclohexane	110-82-7	SHBS0091	99%	2,014.0 µg/mL	+/- 69.6131
7	Methylcyclohexane	108-87-2	SHBR3777	99%	2,015.0 µg/mL	+/- 69.6476
8	Methyl methacrylate	80-62-6	MKCQ2756	99%	2,011.0 µg/mL	+/- 69.5094
9	trans-1,4-dichloro-2-butene	110-57-6	RD240719ECSB	97%	2,013.7 µg/mL	+/- 69.6034
10	Nitrobenzene	98-95-3	10224044	99%	8,026.0 µg/mL	+/- 277.4153

* 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 pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

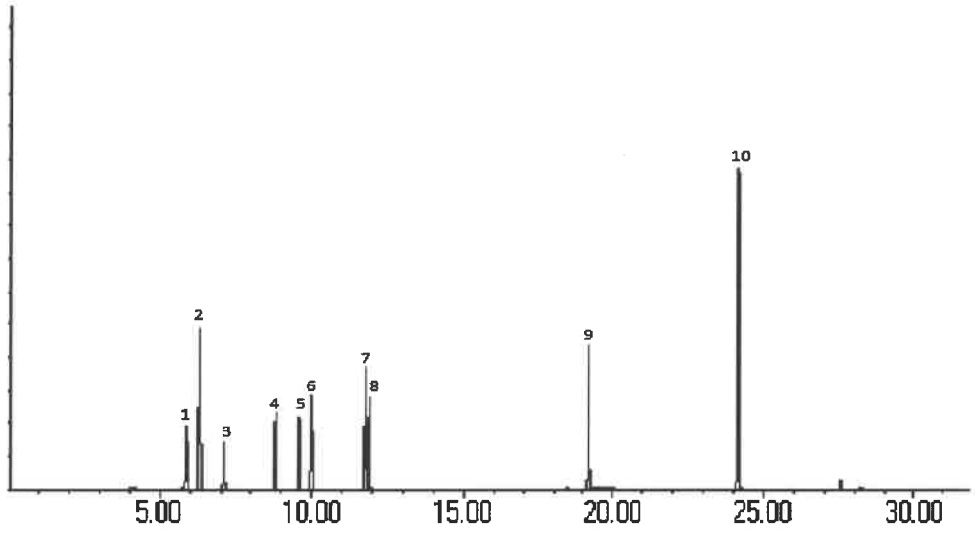
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
25.0 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.

Morgan Craighead - Mix Technician

Date Mixed: 07-Jan-2025 **Balance Serial #** 1128342314

Dillan Murphy - Operations Technician I

Date Passed: 10-Jan-2025

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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Rec 07/01/25

5 vial.

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chromatographic plus

V15045 to V15049

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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. : 30201 **Lot No.:** A0223883

Description : 524 Internal Std / Surrogate Mix

524 Internal Std/Surrogate Mix 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2032 **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	Fluorobenzene	462-06-6	BCBZ5549	99%	2,002.0 µg/mL	+/- 112.4750
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	2,003.3 µg/mL	+/- 112.5499
3	1,2-Dichlorobenzene-d4	2199-69-1	PR-32597	99%	2,006.0 µg/mL	+/- 112.6997

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

SHIPPING DOCUMENTS

Q2552

phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
07/07/2025	333292

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

7/9/25 10:10

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-2553	Net 30	ZCM-100	1500470	FedEx Collect 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-TM-WS	WS Trace Metals 1	WS0725	9101-04
1	1	0	PT-HG-WS	WS Trace Metals Mercury	WS0725	9101-05
1	1	0	PT-MIN-WS	WS Minerals Only	WS0725	9101-51
1	1	0	PT-TURB-WS	WS Turbidity	WS0725	9101-13
1	1	0	PT-SIO2-WS	WS Silica	WS0725	9101-17
1	1	0	PT-RVOA-WS	WS Regulated Volatiles	WS0725	9101-21
1	1	0	PT-UNRVOA-WS	WS Unregulated Volatiles	WS0725	9101-22
1	1	0	PT-THM-WS	WS Trihalomethanes	WS0725	9101-23
1	1	0	PT-EDBCP-WS	WS EDB/DBCP/TCP	WS0725	9101-27
1	1	0	PT-ADD-WS	WS Gasoline Additives	WS0725	9101-36

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